

BUENGER HALL RENOVATION

XAVIER UNIVERSITY BUENGER HALL RENOVATION 3848 LEDGEWOOD DRIVE CINCINNATI, OH 45207

PROJECT DESCRIPTION: MECHANICAL RENOVATION OF EXISTING, 4-STORY PARTIALLY-SPRINKLERED UNIVERSITY DORMITORY

BASEMENT FLOOR AREA =	11,309 \$
FIRST FLOOR AREA =	17,953 \$
SECOND FLOOR AREA =	17,738 \$
THIRD FLOOR AREA =	17,738 \$
FOURTH FLOOR AREA =	8,630 \$
TOTAL FLOOR AREA =	73,368 \$

BUILDING CODE DATA: OBC-2011

PROPOSED USE GROUP: R2 (DORMITORY)

IERAL BUILDING HEIGHTS AND AREAS		
HT LIMITATIONS	ALLOWABLE	PROPOSED (EXISTING)
E 503	4 STORIES / 55 FT	
NKLER INCREASE (OBC 504.2)	N/A	
L HEIGHT	4 STORIES / 55 FT	4 STORIES / 46 FT
LIMITATIONS	ALLOWABLE	PROPOSED (EXISTING)
E 503	16,000 SF / STORY	
ITAGE INCREASE (OBC 506)	12,000 SF / STORY	
NKLER INCREASE (OBC 506)	N/A	
L AREA	28,000 SF / STORY	17,953 SF MAX / STORY
RATION FOR INCIDENTAL USE AREAS - TABLE 508.2 ENTAL USE AREAS ARE EXISTING AND SEPARATED PER TABLE 508.2 - SEE PLANS		
PROPOSED (EXISTING) HEIGHTS ARE HEIGHTS ABOVE AVERAGE GRADE PLANE. BASEMENT DOES NOT CONSTITUTE A STORY ABOVE GRADE PLANE PER SECTION 202		

STRUCTION	
E	
STRUCTURAL ELEM	MENTS (OBC TABLE 601)
INT	REQUIRED RATING
	0-HR
TERIOR	0-HR
ERIOR	0-HR
- EXTERIOR	0-HR (PER TABLE 602)
- INTERIOR	0-HR
ON	0-HR

PROTECTION FEATURES	
DR WALL OPENINGS (TABLE 705.8)	

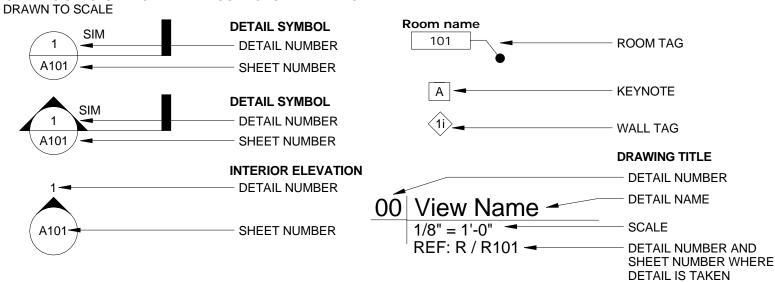
0-HR

PER OBC 907

ES	S				
I REQUIREMEN	NTS (TAI	BLE 803.9) - NONSPRINK	LERED		
XIT ENCLOSU		CORRIDORS	ROOMS & ENCLOSED SPACES		
В		В	С		
EMENTS					
ILL TEST. OTH	ER REQ	UIREMENTS PER SECTION	ON 804.		
SYSTEMS					
ER SYSTEM					
PER OBC 905					
OUISHERS PER O		DBC 906			

SYMBOLS LEGEND

- I. THESE TYPICAL GRAPHIC SYMBOLS DESCRIBE PART OF THE WORK AS INDICATED OR THEY REFERENCE ADDITIONAL INFORMATION FOUND ON OTHER DRAWINGS.
- 2. ADDITIONAL SYMBOLS ARE DEFINED ON OTHER SHEET 3. GRAPHIC SYBOLS INDICATE ITEM LOCATIONS AND ARE NOT



ABBREVIATIONS

AD ADJ AESS AFF AHU AL, ALUM ALT ANOD APPROX APT ARCH	AREA DRAIN ADJACENT ARCHITECTURALLY EXPOSED STRUCTURAL STEEL ABOVE FINISHED FLOOR AIR HANDLING UNIT ALUMINUM ALTERNATE ANODIZED APPROXIMATE APARTMENT ARCHITECTURAL, ARCHITECT	GA GEI GEI GL GN GR GW GYI GY
BD BTW BL BLDG BLKG BM B/, BOT BRG BSMT BUR	BOARD BETWEEN BRICK LEDGE BUILDING BLOCKING BEAM BOTTOM BEARING BASEMENT BUILT-UP ROOF	H HB HD HD HM HO HP HR HT
C TO C CAB CB CF CJ CL CLG CLR CMU CO COL COMM CONC CONT CPT CT CTR CTR CW	CENTER TO CENTER CABINET CATCH BASIN CUBIC FOOT CONTROL JOINT CENTER LINE CEILING CLEAR(ANCE) CONCRETE MASONRY UNIT CLEAN OUT COLUMN COMMUNICATIONS CONCRETE CONTINUOUS CARPET CERAMIC TILE CENTER CURTAIN WALL	HW ID IN IN IN JAN K KIT KSF LAE LAE
D DEMO DEPT DF DIA DIM DL DN DS DTL DWG	DEPTH DEMOLISH, DEMOLITION DEPARTMENT DRINKING FOUNTAIN DIAMETER DIMENSION DEAD LOAD DOWN DOWNSPOUT DETAIL DRAWING	LA\ LB LIN LL LL LLV LP LT LTC LW
EA EXP BLT EFTR EIFS EJ EL, ELEV ELEC EQ EQUIP EW EWC EWF EXH EX EXP EXT	EACH EXPANSION BOLT EXISTING FINISH TO REMAIN EXTERIOR INSULATION AND FINISH SYSTEM EXPANSION JOINT ELEVATION ELECTRIC(CAL) EQUAL EQUIPMENT EACH WAY ELECTRIC WATER COOLER ENGINEERED WOOD FLOORING EXHAUST EXISTING EXPOSED EXTERIOR	MA MA ME MH MIN MIS MO MTI MTI NA NIC NO
F/CONC F/FIN F/MAS F/STD FA FD FDN FE FEC FE FEC	FACE OF FINISH FACE OF MASONRY FACE OF STUDS FIRE ALARM FLOOR DRAIN FOUNDATION FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FINISH FLOOR	NTS O T OA OC OD OH OP OP OV
FIN FIXT FLR FO FR FT FTG	FINISH FIXTURE FLOOR FACE OF FIRE RETARDANT FOOT FOOTING	PLA PC PEF PL PLA PLE PLF PO

GND GR GWB GYP GYP BD	CONCRETE GLASS GLUE LAMINATED GROUND GRADE GYPSUM WALL BOARD GYPSUM BOARD	PR F PREFAB PRKG F PROJ	PORTLAND CEMENT PAIR PREFABIRCATED PARKING PROJECT PROPERTY POUNDS PER SQUARE POUNDS PER SQUARE PAINT POLYVINYL CHLORIDE QUARRY TILE QUANTITY
H HB HD HDW HM HORIZ HP HR HT HVAC HW	HIGH POINT HOUR HEIGHT		RISER RADIUS REFLECTED CEILING PL ROOF DRAIN REINFORCING BAR RECEPTACLE REFER OR REFERENCE REINFORCING REQUIRED REVISE, REVISION ROOM ROUGH OPENING RIGHT OF WAY
IN INSUL INT INV JAN K KIT KP KSF L LAB LAM LAV LB LF LIN LL LUN LV LP LT LTG LW LWC MAS MATL MAX MECH MFR MH MIN MISC MO MTD	INCH INSULATION INTERIOR INVERT JANITOR KIPS (1000 LB) KITCHEN KICKPLATE KIPS PER SQUARE FOOT ANGLE LABORATORY LAMINATE LAVATORY POUND (WEIGHT) LINEAL FOOT LINEAR, LINEAL LIVE LOAD LONG LEG HORIZONTAL LONG LEG VERTICAL LOW POINT LIGHT LIGHTWEIGHT LIGHTWEIGHT LIGHTWEIGHT CONCRETE MASONRY MATERIAL MAXIMUM MECHANICAL MANUFACTURER MANUFACTURER MANHOLE MINIMUM MISCELLANEOUS MASONRY OPENING MOUNTED	STD STL STOR STRUCT SUSP SY T T & B TC TEMP T/ FTG. THK THRU TKBD T/ T/ BEAM T/ CONC T/ FTG T/ PAR T/ SLAB T/ STL T/ WALL TYP	SUPPLY AIR SANITARY SCHEDULE SMOKE DETECTOR SECTION SQUARE FEET SHEET SIMILAR SLAB ON GRADE STANDPIPE SPECIFICATION SQUARE STAINLESS STEEL SOUND TRANSMISSION STANDARD STEEL STORAGE STRUCTURAL SUSPENDED SQUARE YARD TREAD TOP AND BOTTOM TOP OF CURB TEMPORARY TOP OF FOOTING THICK THROUGH TACKBOARD TOP OF BEAM TOP OF BEAM TOP OF SOTING TOP OF FOOTING TOP OF SLAB TOP OF STEEL TOP OF STEEL TOP OF WALL TYPICAL
MTL NA NIC NO., # NOM NRC NTS O TO O OA OC OD OH OPNG OPP OVHD OZ PLAM PC PCF PERF PL PLAM PLBG PLF PLYWD POL	NUMBER NOMINAL NOISE REDUCTION COEFFICIENT NOT TO SCALE OUT TO OUT OVER ALL ON CENTER OUTSIDE DIAMETER OPPOSITE HAND OPENING OPPOSITE	TZ UNEX UNFIN UNO VAR VCT VERT VEST W/ W/O W WC WD WF WH WL WP WR WT WWF	TERRAZZO UNEXCAVATED UNFINISHED UNLESS NOTED OTHER VARIES VINYL COMPOSITION TI VERTICAL VESTIBULE WITH WITHOUT WIDTH WATER CLOSET WOOD WIDE FLANGE WATER HEATER WIND LOAD WATER RESISTANT WEIGHT WELDED WIRE FABRIC

		SHEET LIST
	Sheet Number G000	Sheet Name COVER AND PROJECT INFORMATION
	D200	DEMOLITION PLAN - LOWER LEVEL
	D201 D202	DEMOLITION PLAN - FIRST FLOOR
	D202 D203	DEMOLITION PLAN - SECOND FLOOR DEMOLITION PLAN -THIRD FLOOR
	D204	DEMOLITION PLAN - FOURTH FLOOR
	A200 A201	FLOOR PLAN - LOWER LEVEL FLOOR PLAN - FIRST FLOOR
	A202	FLOOR PLAN - SECOND FLOOR
	A203 A204	FLOOR PLAN - THIRD FLOOR FLOOR PLAN - FOURTH FLOOR
	A205 A220	ROOF PLAN REFLECTED CEILING PLAN - LOWER LEVEL
	A221	REFLECTED CEILING PLAN - FIRST FLOOR
	A222 A223	REFLECTED CEILING PLAN - SECOND FLOOR REFLECTED CEILING PLAN - THIRD FLOOR
	A224 A501	REFLECTED CEILING PLAN - FOURTH FLOOR PARTITONS, PLANS, INTERIOR ELEVATIONS
	A551	FINISH SCHEDULE - BASE BID
	A552 A700	FINISH SCHEDULES - ALTERNATES SIGNAGE
	A900 A901	LOWER LEVEL FURNISHINGS PLAN FIRST FLOOR FURNISHINGS PLAN
	A902	SECOND FLOOR FURNISHINGS PLAN
	A903 A904	THIRD FLOOR FURNISHINGS PLAN FOURTH FLOOR FURNISHINGS PLAN
	S100	FOUNDATION
	S101	FIRST FLOOR
	S102 S103	SECOND FLOOR THIRD FLOOR
	S104 S105	FOURTH FLOOR ROOF PLAN
	S201	SECTIONS AND DETAILS
D IERE	S301	GENERAL NOTES
	PWD101 PWD102	DEMOLITION FIRST FLOOR WASTE & VENT PLUMBING PLAN DEMOLITION SECOND FLOOR WASTE & VENT PLUMBING PLAN
	PWD103	DEMOLITION THIRD FLOOR WASTE & VENT PLUMBING PLAN
	PWD104 PWD105	DEMOLITION FOURTH FLOOR WASTE & VENT PLUMBING PLAN DEMOLITION ROOF WASTE & VENT PLUMBING PLAN
	-	
EMENT	PSD 101 PSD 102	DEMOLITION FIRST FLOOR SUPPLY PLUMBING PLAN DEMOLITION SECOND FLOOR SUPPLY PLUMBING PLAN
ED	PSD 103	DEMOLITION THIRD FLOOR SUPPLY PLUMBING PLAN
	PW101	NEW WORK FIRST FLOOR WASTE AND VENT PLUMBING PLAN
QUARE FOOT	PW102 PW103	NEW WORK SECOND FLOOR WASTE AND VENT PLUMBING PLAN NEW WORK THIRD FLOOR WASTE AND VENT PLUMBING PLAN
QUARE INCH	PW104 PW105	NEW WORK FOURTH FLOOR WASTE AND VENT PLUMBING PLAN
LORIDE		
	PS100 PS101	NEW WORK LOWER LEVEL SUPPLY PLUMBING PLAN NEW WORK FIRST FLOOR SUPPLY PLUMBING PLAN
	PS102	NEW WORK SECOND FLOOR SUPPLY PLUMBING PLAN
ILING PLAN	PS103 PS104	NEW WORK THIRD FLOOR SUPPLY PLUMBING PLAN NEW WORK FOURTH FLOOR SUPPLY PLUMBING PLAN
BAR	PS105	NEW WORK ROOF SUPPLY PLUMBING PLAN
ERENCE	P200	PLUMBING DETAILS
ION	MD100	DEMOLITION LOWER LEVEL MECHANICAL PLAN
NG	MD101 MD102	DEMOLITION FIRST FLOOR MECHANCIAL PLAN DEMOLITION SECOND FLOOR MECHANICAL PLAN
	MD103	DEMOLITION THIRD FLOOR MECHANICAL PLAN
	MD104 MD105	DEMOLITION FOURTH FLOOR MECHANICAL PLAN DEMOLITION MECHANICAL ROOF PLAN
TOR	MS100	NEW WORK LOWER LEVEL SHEET METAL PLAN
	MS101	NEW WORK FIRST FLOOR SHEET METAL PLAN
	MS102 MS103	NEW WORK SECOND FLOOR SHEET METAL PLAN NEW WORK THIRD FLOOR SHEET METAL PLAN
DE	MS104 MS105	NEW WORK FOURTH FLOOR SHEET METAL PLAN NEW WORK ROOF SHEET METAL PLAN
1		
EEL MISSION	MP100 MP101	NEW WORK LOWER LEVEL MECHANICAL PIPING PLAN NEW WORK FIRST FLOOR MECHANICAL PIPING PLAN
	MP102	NEW WORK SECOND FLOOR MECHANICAL PIPING PLAN
	MP103 MP104	NEW WORK THIRD FLOOR MECHANICAL PIPING PLAN NEW WORK FOURTH FLOOR MECHANICAL PIPING PLAN
	M200	MECHANICAL DETAILS
	M201	MECHANICAL DETAILS
OM	M202 M203	MECHANICAL DETAILS CENTRAL PLANT GAS DETAIL
IG	M400 M401	MECHANICAL SCHEDULES MECHANICAL SCHEDULES
	M402	MECHANICAL SCHEDULES
	M403 M404	MECHANICAL SCHEDULES MECHANICAL SCHEDULES
ETE	EPD100	DEMOLITION LOWER LEVEL POWER PLAN
IG ET	EPD101	DEMOLITION FIRST FLOOR POWER PLAN
	EPD102 EPD103	DEMOLITION SECOND FLOOR POWER PLAN DEMOLITION THIRD FLOOR POWER PLAN
	EPD104	DEMOLITION FOURTH FLOOR POWER PLAN
	EP100	NEW WORK LOWER LEVEL POWER PLAN
	EP101 EP102	NEW WORK FIRST FLOOR POWER PLAN NEW WORK SECOND FLOOR POWER PLAN
OTHERWISE	EP103	NEW WORK THIRD FLOOR POWER PLAN
ITION TILE	EP104 EP105	NEW WORK FOURTH FLOOR POWER PLAN NEW WORK ROOF POWER PLAN
	EL100	NEW WORK LOWER LEVEL LIGHTING PLAN
	EL101	NEW WORK FIRST FLOOR LIGHTING PLAN
-	EL102 EL103	NEW WORK SECOND FLOOR LIGHTING PLAN NEW WORK THIRD FLOOR LIGHTING PLAN
Г	EL104	NEW WORK FOURTH FLOOR LIGHTING PLAN
र	EL105	NEW WORK ROOF LIGHTING PLAN
ING)	E500 E501	ELECTRICAL SINGLE LINE DIAGRAM ELECTRICAL DETAILS
ANT	E510	PANEL SCHEDULES
FABRIC	E511 E512	PANEL SCHEDULES FIRST FLOOR PANEL SCHEDULES SECONF FLOOR
	LOTZ	

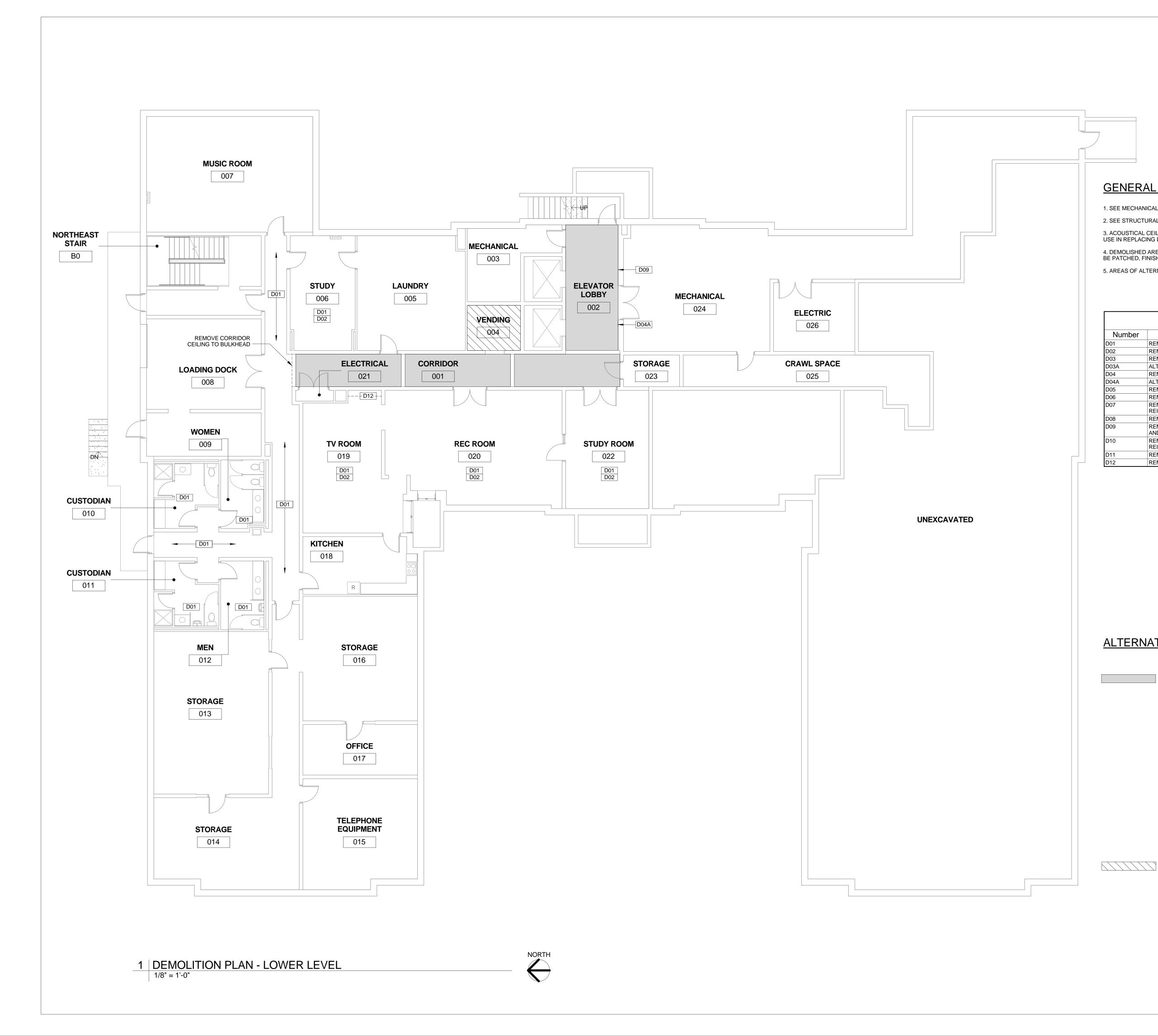
304 East Eighth Cincinnati OH 45202-2231 v. (513) 665-9555 f. (513) 665-9857 glaserworks architecture & urban design PLUMBING, MECHANICAL & **ELECTRICAL ENGINEERS Motz Engineering** 300 West 4th Street, Suite 300 Cincinnati, OH 45202-2666 T: 513.621.5400 F: 513.621.5407 MEP Design Security Sustainable Design Design/Build Commissioning STRUCTURAL ENGINEERS: schaetei 10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 T: 513.542.3300 F: 513.542.5540 SHEET REVISION REV # DATE DESCRIPTION DESCRIPTION DATE 2/16/2017 **BIDDING AND PERMIT COVER AND** PROJECT INFORMATION **G000**

Xavier University

Buenger Hall

Renovation

3848 Ledgewood Drive Cincinnati, Ohio 45207



GENERAL NOTES - DEMOLITION

1. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION. 2. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

3. ACOUSTICAL CEILING TILES REMOVED TO BE SAVED UNTIL PROJECT COMPLETE FOR POSSIBLE USE IN REPLACING DAMAGED TILES IN AREAS WHERE ACOUSTICAL CEILING IS TO REMAIN.

4. DEMOLISHED AREAS OF WORK WHICH WILL REMAIN EXPOSED AFTER PROJECT IS COMPLETE TO BE PATCHED, FINISHED AND PAINTED TO MATCH ADJACENT FINISHES.

5. AREAS OF ALTERNATES ARE SHOWN HATCHED OR SHADED - SEE ALTERNATES LEGEND.

KEYNOTES - DEMOLITION		
Number	Keynote	
D01	REMOVE ACOUSTICAL CEILING TILE, SUSPENSION GRID AND LIGHT FIXTURES.	
D02	REMOVE CARPETING AND RESILIENT BASE.	
D03	REMOVE TACK BOARDS AT ENTRANCES TO SUITES.	
D03A	ALTERNATE NO. 1: REMOVE TACK BARDS AT ENTRANCES TO SUITES.	
D04	REMOVE ROOM SIGN OR DIRECTORY SIGN.	
D04A	ALTERNATE NO. 1: REMOVE ROOM SIGN OR DIRECTORY SIGN.	
D05	REMOVE COUNTERTOP AND CASEWORK.	
D06	REMOVE VINYL FLOOR TILE AND RESILIENT BASE.	
D07	REMOVE SOAP AND PAPER TOWEL DISPENSERS AND STORE FOR REINSTALLATION.	
D08	REMOVE SURFACE-MOUNTED TRASH RECEPTACLE.	
D09	REMOVE CARPET SURFACE, SUBSTRATE AND FURRING FROM WALL. CLEAN AND PATCH WALL TO RECEIVE NEW PAINT FINISH	
D10	REMOVE EXISTING CASEWORK AND COUNTER. STORE AND PROTECT FOR REINSTALLATION IN NEW LOCATION.	
D11	REMOVE EXISTING CMU WALL.	
D12	REMOVE EXISTING GWB BULKHEAD AT CEILING.	

ALTERNATES LEGEND

ALTERNATE NO. 1:

- REMOVE EXISTING ACOUSTICAL CEILING TILE,
- SUSPENSION GRID AND LIGHT FIXTURES. • REMOVE EXISTING GWB BULKHEADS IN CORRIDOR ON FLOORS THREE AND FOUR. EXISTING GWB BULKHEADS AND SOFFITS TO REMAIN ON LOWER
- LEVEL AND FLOOR ONE. REMOVE CARPET AND RESILIENT BASE ON FLOORS 3 AND 4.
- REMOVE CARPET IN LOUNGE NO. 130. • REMOVE VCT IN LOUNGE NO. 424.
- REMOVE TACK BOARDS AND ROOM NUMBER SIGNS AT ENTRANCES TO SUITES AND AS INDICATED IN FLOOR PLANS.
- REMOVE DIRECTORY SIGN IN CORRIDOR.INSTALL NEW GRID AND ACOUSTICAL CEILING TILE.
- INSTALL NEW GWB BULKHEADS IN CORRIDORS ON
- FLOORS 3 AND 4, SIMILAR TO THOSE AT FLOOR 2. INSTALL NEW CARPET AND RESILIENT BASE ON
- FLOORS 3 AND 4 AND NEW CARPET IN LOUNGE 130.
- INSTALL NEW VCT AND CARPET IN LOUNGE NO. 424.
- PAINT WALLS, BULKHEADS, SOFFITS, AND HM DOORS AND FRAMES.
- INSTALL NEW COMBINATION SIGN/TACKBOARD AT ENTRANCES TO SUITES AND WHERE INDICATED IN
- PLANS. • INSTALL NEW DIRECTORY SIGNS AS INDICATED.

ALTERNATE NO. 2:

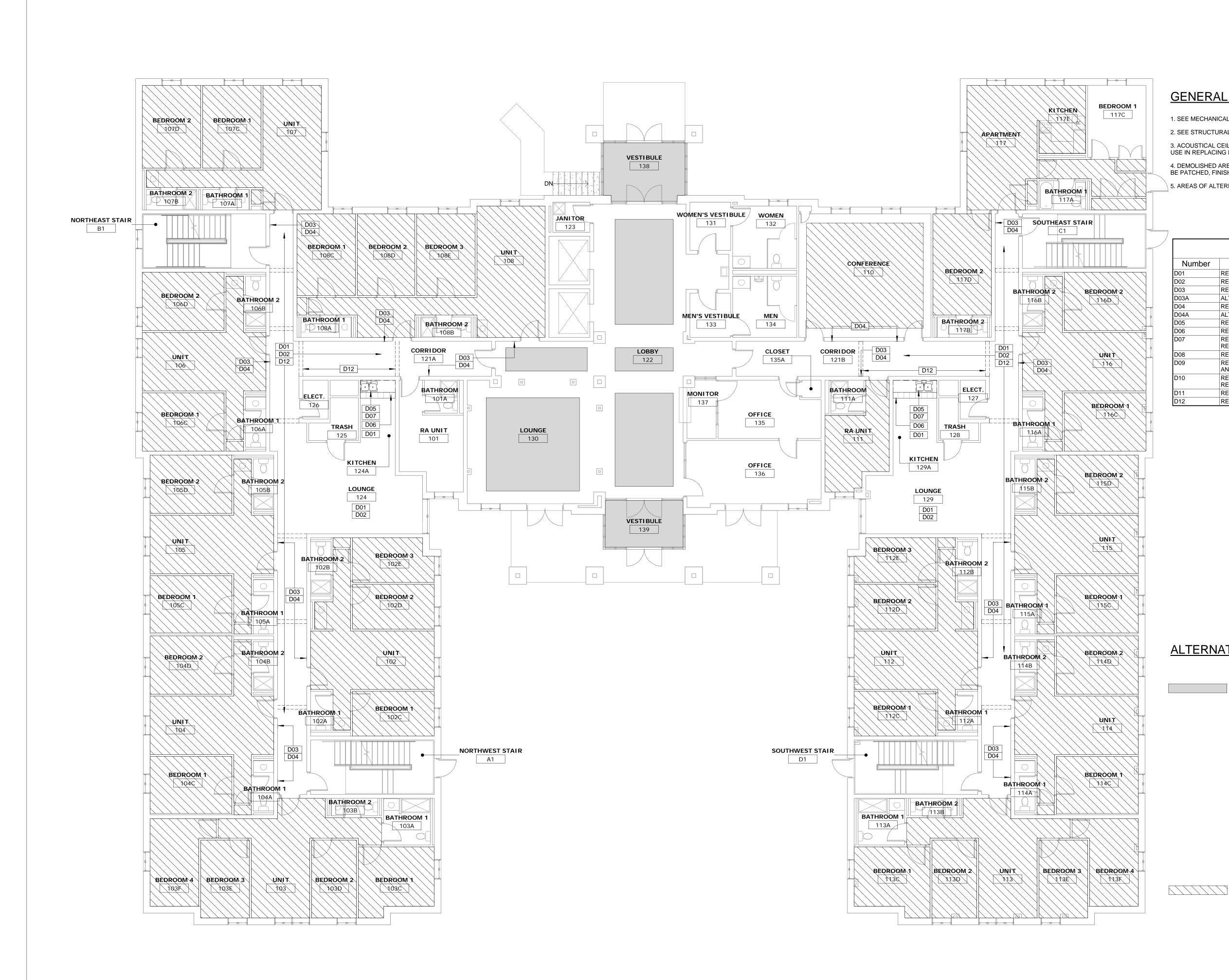
- REMOVE EXISTING ACOUSTICAL CEILING TILE, SUSPENSION GRID AND LIGHT FIXTURES.
- INSTALL NEW GRID AND ACOUSTICAL CEILING TILE AT SAME HEIGHT AS EXISTING.

Xavier University Buenger Hall Renovation

3848 Ledgewood Drive Cincinnati, Ohio 45207 Project #: 16016

304 East Eighth Cincinnati OH 45202-2231 v. (513) 665-9555 f. (513) 665-9857 glaserworks architecture & urban design M.H. MALTINSKY, LICENSE #10106 EXPIRATION DATE 12/31/2017 PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS: **Motz Engineering** 300 West 4th Street, Suite 300 Cincinnati, OH 45202-2666 T: 513.621.5400 F: 513.621.5407 MEP Design Security Sustainable Design Commissioning Design/Build STRUCTURAL ENGINEERS: schæfer 10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 T: 513.542.3300 F: 513.542.5540 SHEET REVISION REV # DATE DESCRIPTION DESCRIPTION DATE BIDDING AND PERMIT 2/16/2017 DEMOLITION **PLAN - LOWER** LEVEL **D200**

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





GENERAL NOTES - DEMOLITION

SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
 SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

3. ACOUSTICAL CEILING TILES REMOVED TO BE SAVED UNTIL PROJECT COMPLETE FOR POSSIBLE USE IN REPLACING DAMAGED TILES IN AREAS WHERE ACOUSTICAL CEILING IS TO REMAIN.
4. DEMOLISHED AREAS OF WORK WHICH WILL REMAIN EXPOSED AFTER PROJECT IS COMPLETE TO BE PATCHED, FINISHED AND PAINTED TO MATCH ADJACENT FINISHES.

5. AREAS OF ALTERNATES ARE SHOWN HATCHED OR SHADED - SEE ALTERNATES LEGEND.

KEYNOTES - DEMOLITION		
Number	Keynote	
D01	REMOVE ACOUSTICAL CEILING TILE, SUSPENSION GRID AND LIGHT FIXTURES.	
D02	REMOVE CARPETING AND RESILIENT BASE.	
D03	REMOVE TACK BOARDS AT ENTRANCES TO SUITES.	
D03A	ALTERNATE NO. 1: REMOVE TACK BARDS AT ENTRANCES TO SUITES.	
D04	REMOVE ROOM SIGN OR DIRECTORY SIGN.	
D04A	ALTERNATE NO. 1: REMOVE ROOM SIGN OR DIRECTORY SIGN.	
D05	REMOVE COUNTERTOP AND CASEWORK.	
D06	REMOVE VINYL FLOOR TILE AND RESILIENT BASE.	
D07	REMOVE SOAP AND PAPER TOWEL DISPENSERS AND STORE FOR REINSTALLATION.	
D08	REMOVE SURFACE-MOUNTED TRASH RECEPTACLE.	
D09	REMOVE CARPET SURFACE, SUBSTRATE AND FURRING FROM WALL. CLEAN AND PATCH WALL TO RECEIVE NEW PAINT FINISH	
D10	REMOVE EXISTING CASEWORK AND COUNTER. STORE AND PROTECT FOR REINSTALLATION IN NEW LOCATION.	
D11	REMOVE EXISTING CMU WALL.	
D12	REMOVE EXISTING GWB BULKHEAD AT CEILING.	

ALTERNATES LEGEND

ALTERNATE NO. 1:

- REMOVE EXISTING ACOUSTICAL CEILING TILE,
- SUSPENSION GRID AND LIGHT FIXTURES. • REMOVE EXISTING GWB BULKHEADS IN CORRIDOR ON FLOORS THREE AND FOUR. EXISTING GWB BULKHEADS AND SOFFITS TO REMAIN ON LOWER
- LEVEL AND FLOOR ONE.
 REMOVE CARPET AND RESILIENT BASE ON FLOORS 3 AND 4.
- REMOVE CARPET IN LOUNGE NO. 130.
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 REMOVE TACK BOARDS AND ROOM NUMBER SIGNS AT ENTRANCES TO SUITES AND AS INDICATED IN FLOOR PLANS.
- REMOVE DIRECTORY SIGN IN CORRIDOR.
- INSTALL NEW GRID AND ACOUSTICAL CEILING TILE.INSTALL NEW GWB BULKHEADS IN CORRIDORS ON
- FLOORS 3 AND 4, SIMILAR TO THOSE AT FLOOR 2. • INSTALL NEW CARPET AND RESILIENT BASE ON FLOORS 3 AND 4 AND NEW CARPET IN LOUNGE 130.
- INSTALL NEW VCT AND CARPET IN LOUNGE NO. 424.
 PAINT WALLS, BULKHEADS, SOFFITS, AND HM DOORS AND FRAMES.
- INSTALL NEW COMBINATION SIGN/TACKBOARD AT ENTRANCES TO SUITES AND WHERE INDICATED IN PLANS.
- INSTALL NEW DIRECTORY SIGNS AS INDICATED.

ALTERNATE NO. 2:

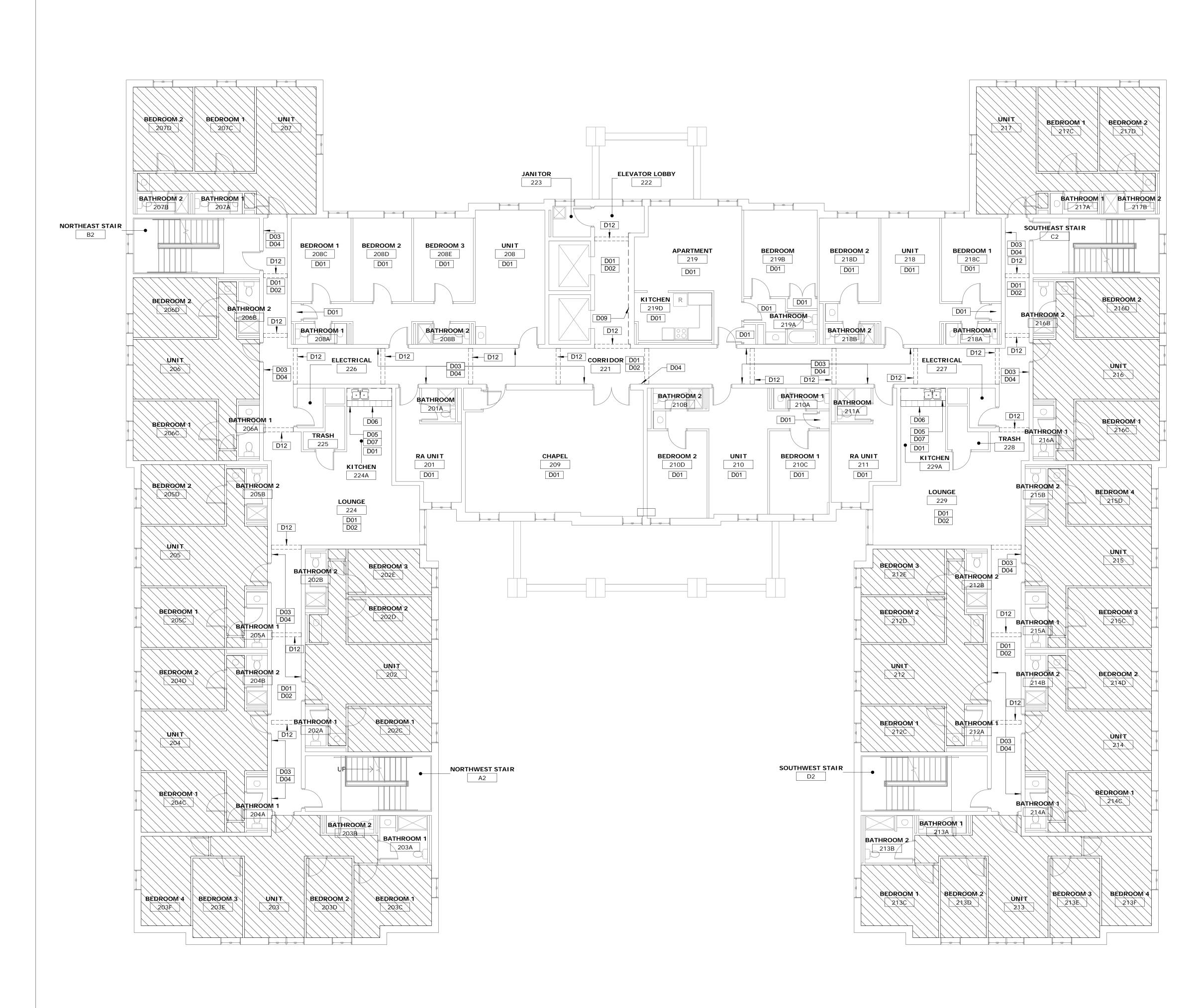
- REMOVE EXISTING ACOUSTICAL CEILING TILE, SUSPENSION
- GRID AND LIGHT FIXTURES.INSTALL NEW GRID AND ACOUSTICAL CEILING TILE AT SAME HEIGHT AS EXISTING.

Xavier University Buenger Hall Renovation

3848 Ledgewood Drive Cincinnati, Ohio 45207



1 DEMOLITION PLAN - SECOND FLOOR





GENERAL NOTES - DEMOLITION

SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
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	KEYNOTES - DEMOLITION		
Number	Keynote		
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ALTERNATES LEGEND

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- REMOVE EXISTING ACOUSTICAL CEILING TILE,
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 REMOVE TACK BOARDS AND ROOM NUMBER SIGNS AT ENTRANCES TO SUITES AND AS INDICATED IN FLOOR PLANS
- PLANS. • REMOVE DIRECTORY SIGN IN CORRIDOR.
- INSTALL NEW GRID AND ACOUSTICAL CEILING TILE
- INSTALL NEW GWB BULKHEADS IN CORRIDORS ON FLOORS 3 AND 4, SIMILAR TO THOSE AT FLOOR 2.
- INSTALL NEW CARPET AND RESILIENT BASE ON FLOORS 3 AND 4 AND NEW CARPET IN LOUNGE 130.
- INSTALL NEW VCT AND CARPET IN LOUNGE NO. 424.
 PAINT WALLS, BULKHEADS, SOFFITS, AND HM DOORS AND FRAMES.
 INSTALL NEW COMBINATION SIGN/TACKBOARD AT
- ENTRANCES TO SUITES AND WHERE INDICATED IN PLANS.
- INSTALL NEW DIRECTORY SIGNS AS INDICATED.

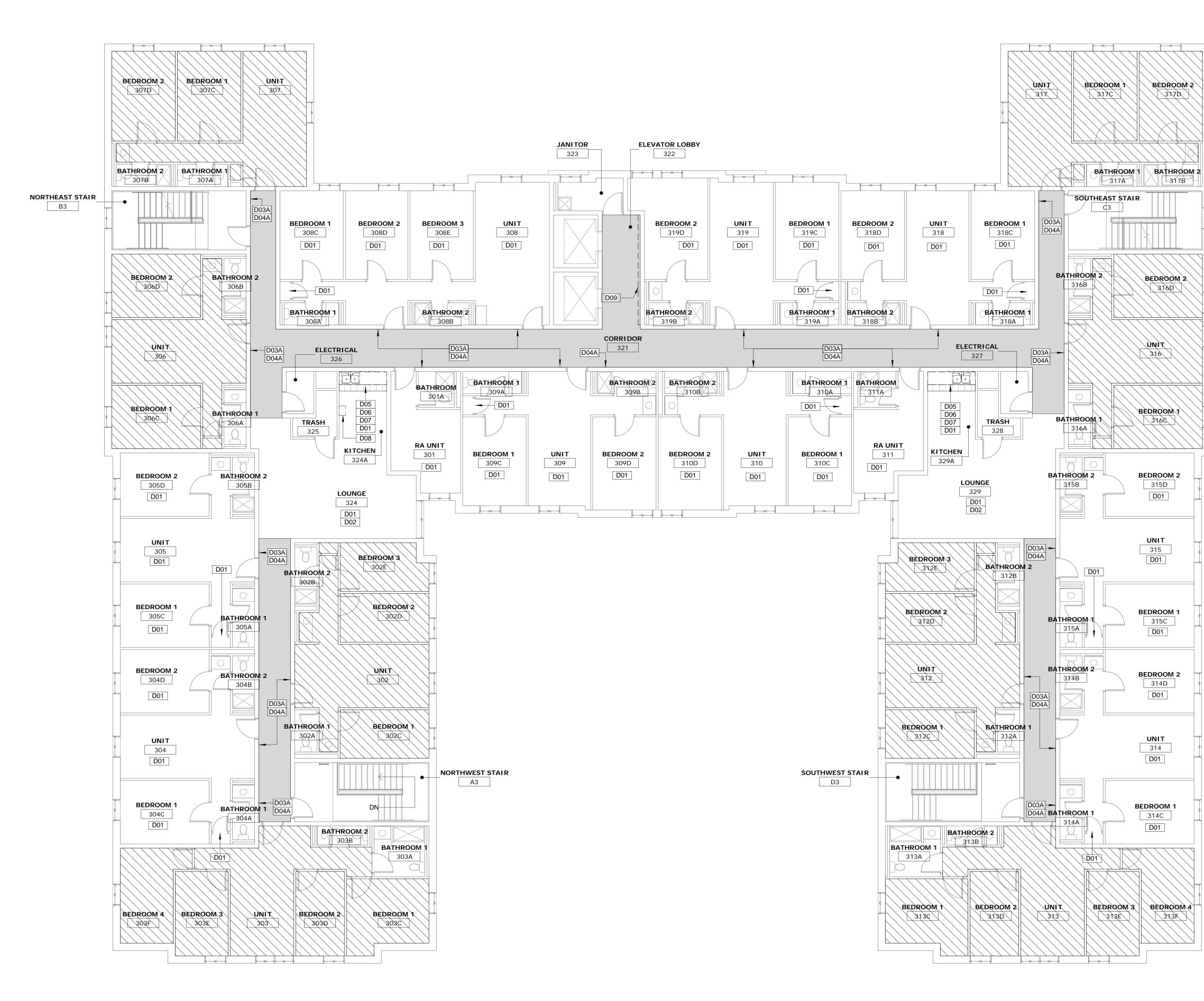
ALTERNATE NO. 2:

REMOVE EXISTING ACOUSTICAL CEILING TILE, SUSPENSION GRID AND LIGHT FIXTURES.
INSTALL NEW GRID AND ACOUSTICAL CEILING TILE AT SAME HEIGHT AS EXISTING.

Xavier University Buenger Hall Renovation

3848 Ledgewood Drive Cincinnati, Ohio 45207





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



GENERAL NOTES - DEMOLITION

1. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION. 2. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

3. ACOUSTICAL CEILING TILES REMOVED TO BE SAVED UNTIL PROJECT COMPLETE FOR POSSIBLE USE IN REPLACING DAMAGED TILES IN AREAS WHERE ACOUSTICAL CEILING IS TO REMAIN.

4. DEMOLISHED AREAS OF WORK WHICH WILL REMAIN EXPOSED AFTER PROJECT IS COMPLETE T ϕ^{-C} BE PATCHED, FINISHED AND PAINTED TO MATCH ADJACENT FINISHES.

5. AREAS OF ALTERNATES ARE SHOWN HATCHED OR SHADED - SEE ALTERNATES LEGEND.

KEYNOTES - DEMOLITION		
Number	Keynote	
D01	REMOVE ACOUSTICAL CEILING TILE, SUSPENSION GRID AND LIGHT FIXTURES.	
D02	REMOVE CARPETING AND RESILIENT BASE.	
D03	REMOVE TACK BOARDS AT ENTRANCES TO SUITES.	
D03A	ALTERNATE NO. 1: REMOVE TACK BARDS AT ENTRANCES TO SUITES.	
D04	REMOVE ROOM SIGN OR DIRECTORY SIGN.	
D04A	ALTERNATE NO. 1: REMOVE ROOM SIGN OR DIRECTORY SIGN.	
D05	REMOVE COUNTERTOP AND CASEWORK.	
D06	REMOVE VINYL FLOOR TILE AND RESILIENT BASE.	
D07	REMOVE SOAP AND PAPER TOWEL DISPENSERS AND STORE FOR REINSTALLATION.	
D08	REMOVE SURFACE-MOUNTED TRASH RECEPTACLE.	
D09	REMOVE CARPET SURFACE, SUBSTRATE AND FURRING FROM WALL. CLEAN AND PATCH WALL TO RECEIVE NEW PAINT FINISH	
D10	REMOVE EXISTING CASEWORK AND COUNTER. STORE AND PROTECT FOR REINSTALLATION IN NEW LOCATION.	
D11	REMOVE EXISTING CMU WALL.	
D12	REMOVE EXISTING GWB BULKHEAD AT CEILING.	

ALTERNATES LEGEND

ALTERNATE NO. 1:

- REMOVE EXISTING ACOUSTICAL CEILING TILE,
- SUSPENSION GRID AND LIGHT FIXTURES. • REMOVE EXISTING GWB BULKHEADS IN CORRIDOR ON FLOORS THREE AND FOUR. EXISTING GWB BULKHEADS AND SOFFITS TO REMAIN ON LOWER
- LEVEL AND FLOOR ONE. • REMOVE CARPET AND RESILIENT BASE ON FLOORS 3 AND 4.
- REMOVE CARPET IN LOUNGE NO. 130.
- REMOVE VCT IN LOUNGE NO. 424.
 REMOVE TACK BOARDS AND ROOM NUMBER SIGNS AT ENTRANCES TO SUITES AND AS INDICATED IN FLOOR PLANS.
- REMOVE DIRECTORY SIGN IN CORRIDOR.
- INSTALL NEW GRID AND ACOUSTICAL CEILING TILE.
- INSTALL NEW GWB BULKHEADS IN CORRIDORS ON FLOORS 3 AND 4, SIMILAR TO THOSE AT FLOOR 2.
- INSTALL NEW CARPET AND RESILIENT BASE ON
- FLOORS 3 AND 4 AND NEW CARPET IN LOUNGE 130. • INSTALL NEW VCT AND CARPET IN LOUNGE NO. 424.
- PAINT WALLS, BULKHEADS, SOFFITS, AND HM DOORS AND FRAMES. • INSTALL NEW COMBINATION SIGN/TACKBOARD AT
- ENTRANCES TO SUITES AND WHERE INDICATED IN PLANS.
- INSTALL NEW DIRECTORY SIGNS AS INDICATED.

ALTERNATE NO. 2:

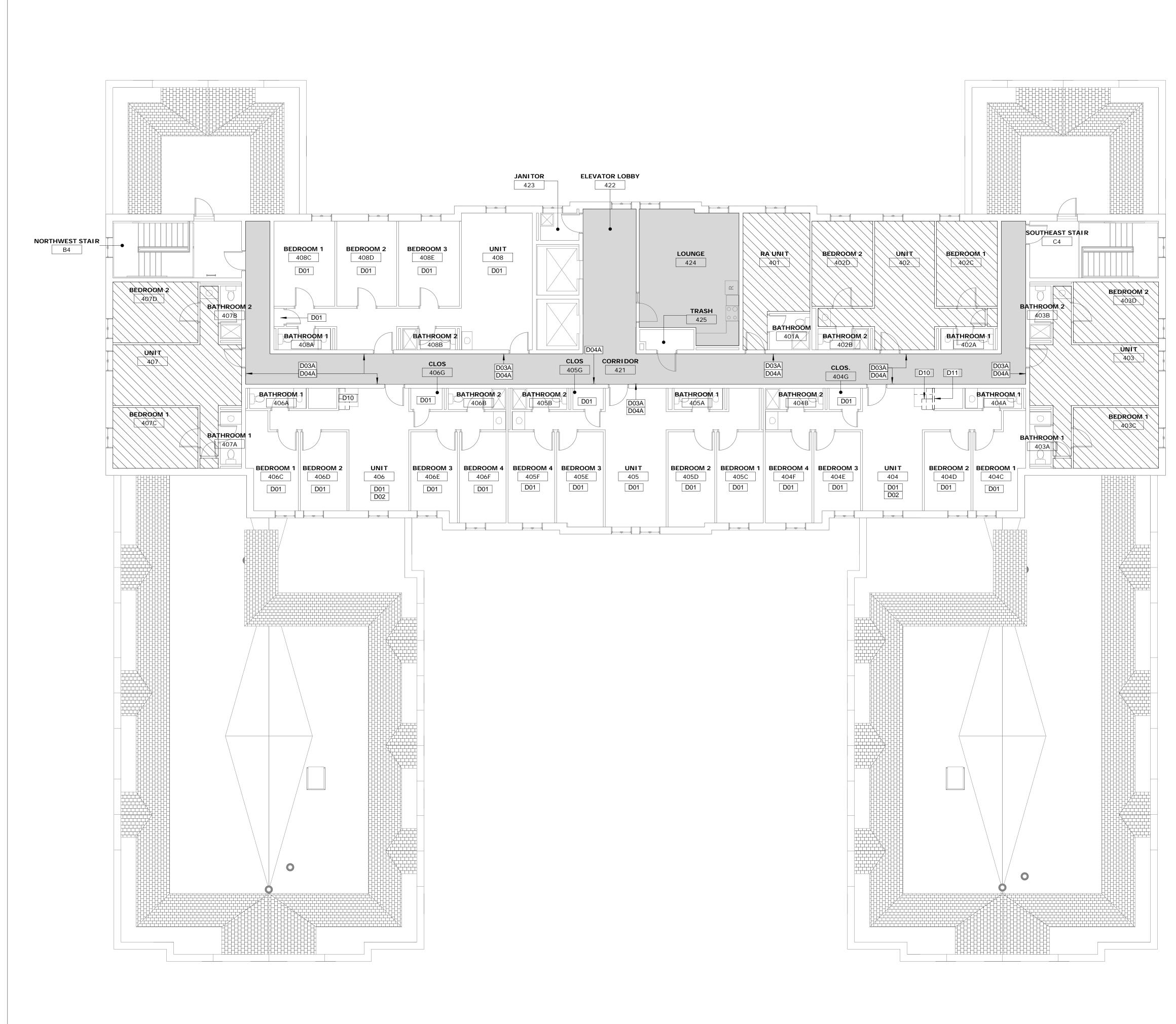
• REMOVE EXISTING ACOUSTICAL CEILING TILE, SUSPENSION GRID AND LIGHT FIXTURES. • INSTALL NEW GRID AND ACOUSTICAL CEILING TILE AT SAME HEIGHT AS EXISTING.

Xavier University Buenger Hall Renovation

3848 Ledgewood Drive Cincinnati, Ohio 45207









GENERAL NOTES - DEMOLITION

SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
 SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

3. ACOUSTICAL CEILING TILES REMOVED TO BE SAVED UNTIL PROJECT COMPLETE FOR POSSIBLE USE IN REPLACING DAMAGED TILES IN AREAS WHERE ACOUSTICAL CEILING IS TO REMAIN.

4. DEMOLISHED AREAS OF WORK WHICH WILL REMAIN EXPOSED AFTER PROJECT IS COMPLETE TO BE PATCHED, FINISHED AND PAINTED TO MATCH ADJACENT FINISHES.5. AREAS OF ALTERNATES ARE SHOWN HATCHED OR SHADED - SEE ALTERNATES LEGEND.

KEYNOTES - DEMOLITION			
Number	Keynote		
D01	REMOVE ACOUSTICAL CEILING TILE, SUSPENSION GRID AND LIGHT FIXTURES.		
D02	REMOVE CARPETING AND RESILIENT BASE.		
D03	REMOVE TACK BOARDS AT ENTRANCES TO SUITES.		
D03A	ALTERNATE NO. 1: REMOVE TACK BARDS AT ENTRANCES TO SUITES.		
D04	REMOVE ROOM SIGN OR DIRECTORY SIGN.		
D04A	ALTERNATE NO. 1: REMOVE ROOM SIGN OR DIRECTORY SIGN.		
D05	REMOVE COUNTERTOP AND CASEWORK.		
D06	REMOVE VINYL FLOOR TILE AND RESILIENT BASE.		
D07	REMOVE SOAP AND PAPER TOWEL DISPENSERS AND STORE FOR REINSTALLATION.		
D08	REMOVE SURFACE-MOUNTED TRASH RECEPTACLE.		
D09	REMOVE CARPET SURFACE, SUBSTRATE AND FURRING FROM WALL. CLEAN AND PATCH WALL TO RECEIVE NEW PAINT FINISH		
D10	REMOVE EXISTING CASEWORK AND COUNTER. STORE AND PROTECT FOR REINSTALLATION IN NEW LOCATION.		
D11	REMOVE EXISTING CMU WALL.		
D12	REMOVE EXISTING GWB BULKHEAD AT CEILING.		

ALTERNATES LEGEND

ALTERNATE NO. 1:

- REMOVE EXISTING ACOUSTICAL CEILING TILE,
- SUSPENSION GRID AND LIGHT FIXTURES. • REMOVE EXISTING GWB BULKHEADS IN CORRIDOR ON FLOORS THREE AND FOUR. EXISTING GWB BULKHEADS AND SOFFITS TO REMAIN ON LOWER
- LEVEL AND FLOOR ONE. • REMOVE CARPET AND RESILIENT BASE ON FLOORS 3 AND 4.
- REMOVE CARPET IN LOUNGE NO. 130.REMOVE VCT IN LOUNGE NO. 424.
- REMOVE TACK BOARDS AND ROOM NUMBER SIGNS AT ENTRANCES TO SUITES AND AS INDICATED IN FLOOR PLANS.
- REMOVE DIRECTORY SIGN IN CORRIDOR.INSTALL NEW GRID AND ACOUSTICAL CEILING TILE.
- INSTALL NEW GRID AND ACOUSTICAL CEILING TILE.
 INSTALL NEW GWB BULKHEADS IN CORRIDORS ON
- FLOORS 3 AND 4, SIMILAR TO THOSE AT FLOOR 2. • INSTALL NEW CARPET AND RESILIENT BASE ON
- FLOORS 3 AND 4 AND NEW CARPET IN LOUNGE 130.
 INSTALL NEW VCT AND CARPET IN LOUNGE NO. 424.
 PAINT WALLS, BULKHEADS, SOFFITS, AND HM DOORS
- AND FRAMES. • INSTALL NEW COMBINATION SIGN/TACKBOARD AT
- ENTRANCES TO SUITES AND WHERE INDICATED IN PLANS. • INSTALL NEW DIRECTORY SIGNS AS INDICATED.

ALTERNATE NO. 2:

- REMOVE EXISTING ACOUSTICAL CEILING TILE, SUSPENSION
- GRID AND LIGHT FIXTURES. • INSTALL NEW GRID AND ACOUSTICAL CEILING TILE AT SAME HEIGHT AS EXISTING.

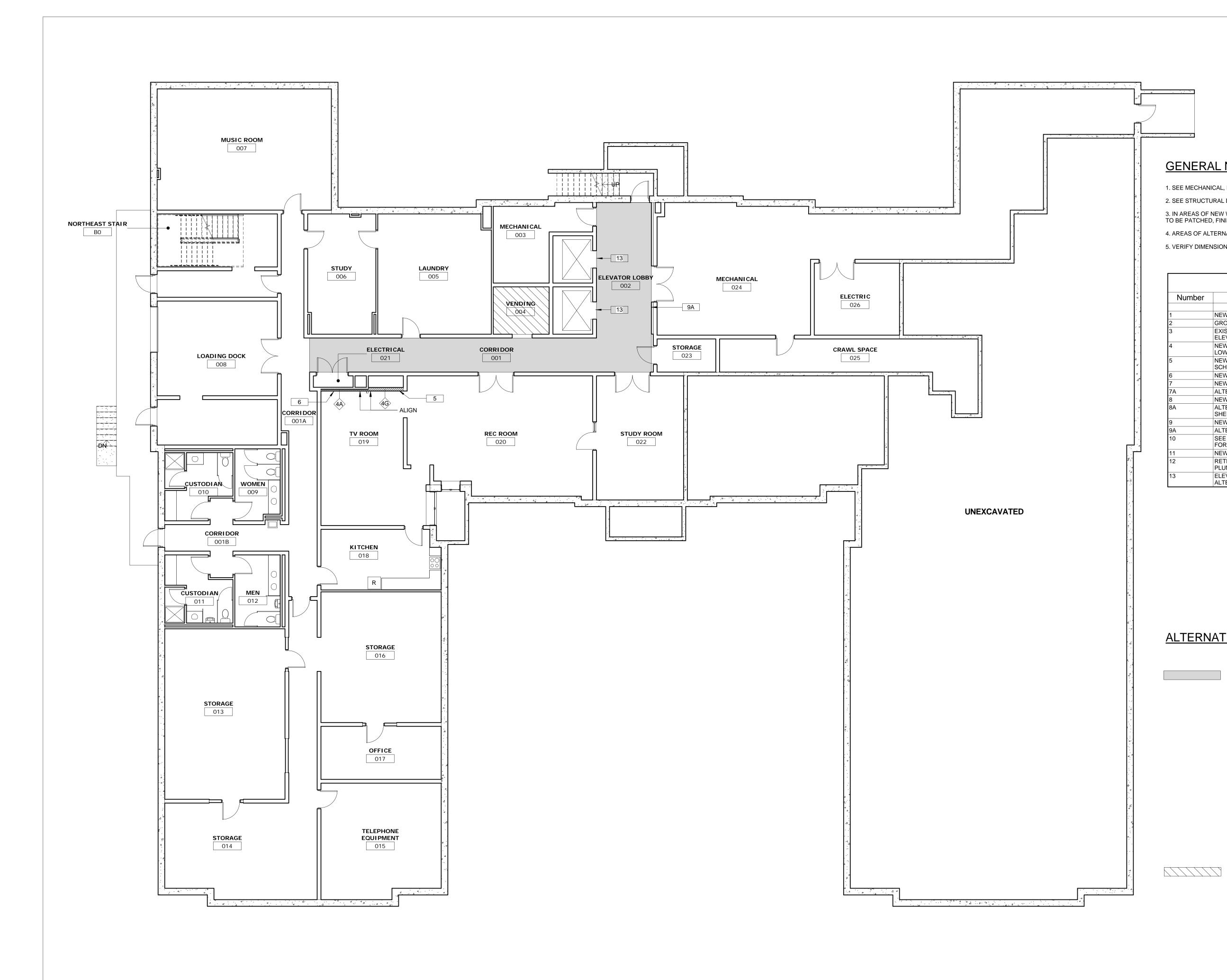
Xavier University Buenger Hall Renovation

3848 Ledgewood Drive Cincinnati, Ohio 45207

Project #: 16016



PRINT DATE: 2/16/2017 10:15:31 AM





GENERAL NOTES - FLOOR PLANS

1. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION. 2. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

3. IN AREAS OF NEW WORK IN EXISTING FLOORS, WALLS AND CEILINGS, EXISTING SURFACES TO BE PATCHED, FINISHED AND PAINTED TO MATCH EXISTING.

4. AREAS OF ALTERNATES ARE SHOWN HATCHED - SEE ALTERNATES LEGEND.

5. VERIFY DIMENSIONS AND EXISTING CONDITIONS IN FIELD.

KEYNOTES - FLOOR PLANS				
Number	er Keynote			
1	NEW 2-HOUR FIRE RESISTANCE RATED SHAFT			
2	GROUT EXISTING CMU WALL SOLID IN AREA SHOWN SHADED.			
3	EXISTING CASEWORK TO BE REINSTALLED THIS LOCATION - SEE ELEVATION.			
4	NEW DRINKING FOUNTAIN (SEE PLUMBING) - MOUNT AT 30" AFF TO LOW SPOUT.			
5	NEW CMU BEARING WALL - SEE STRUCTURAL AND PARTITION SCHEDULE.			
6	NEW CMU WALL - SEE PARTITION SCHEDULE.			
7	NEW ROOM SIGN - SEE SHEET A700.			
7A	ALTERNATE NO. 1: NEW ROOM SIGN - SEE SHEET A700.			
8	NEW COMBINATION SIGN/TACK BOARD - SEE SHEET A700.			
8A	ALTERNATE NO. 1: NEW COMBINATION SIGN/TACK BOARD - SEE SHEET A700.			
9	NEW DIRECTORY - SEE SHEET A700.			
9A	ALTERNATE NO. 1: NEW DIRECTORY - SEE SHEET A700.			
10	SEE STRUCTURAL FOR LINTEL DETAIL. SEE DETAIL THIS SHEET FOR LINTEL FIRE PROTECTION.			
11	NEW VCT FLOORING PER ALTERNATE NO. 1.			
12	RETROFIT BOTTLE FILLER TO EXISTING DRINKING FOUNTAIN - SEE PLUMBING.			
13	ELEVATOR DOORS AND FRAMES TO BE PAINTED IN BASE BID OR ALTERNATES TO BE PAINTED ELECTROSTATICALLY.			

ALTERNATES LEGEND

ALTERNATE NO. 1:

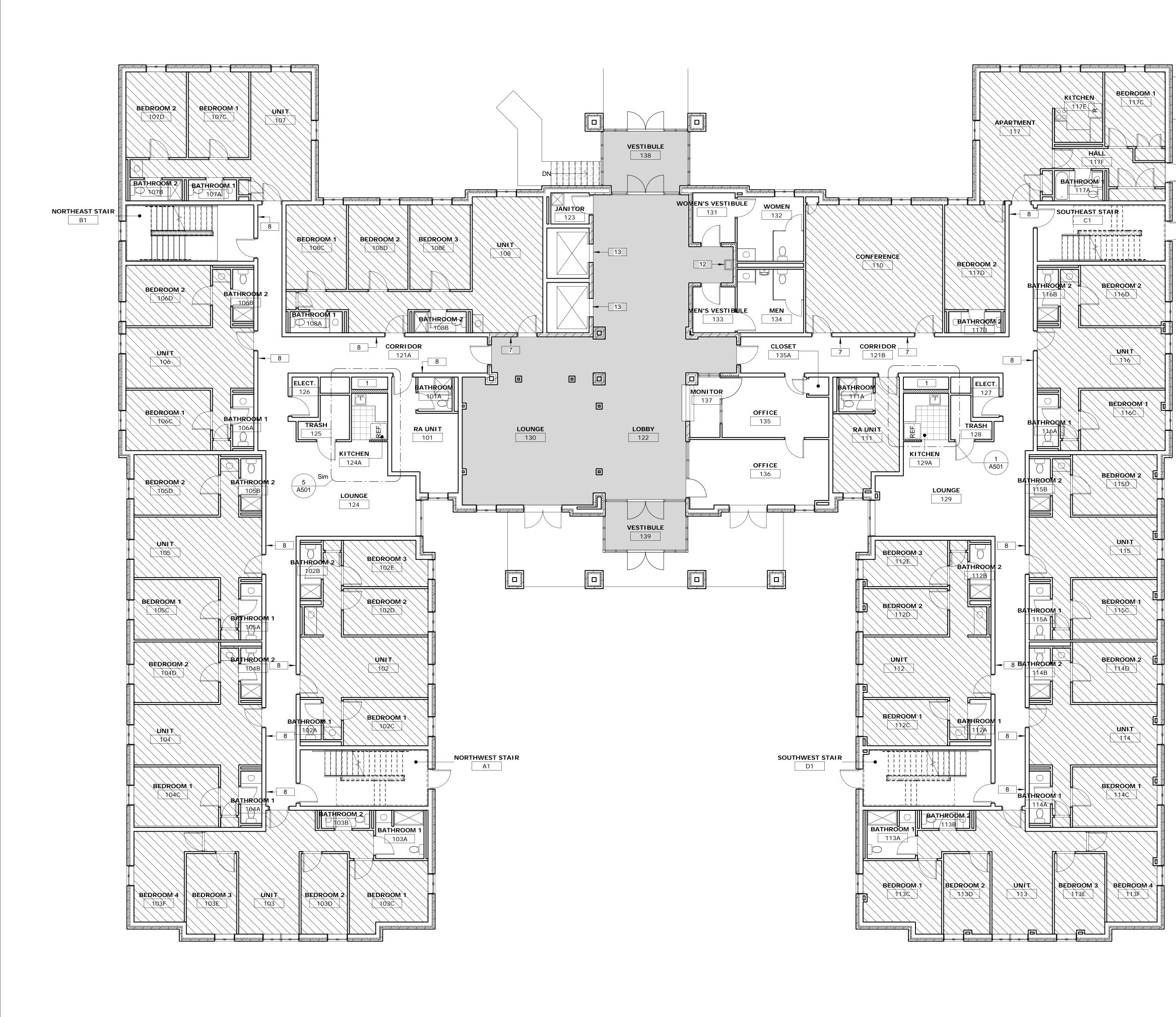
- REMOVE EXISTING ACOUSTICAL CEILING TILE, SUSPENSION GRID AND LIGHT FIXTURES.
- REMOVE EXISTING GWB BULKHEADS IN CORRIDOR ON FLOORS THREE AND FOUR. EXISTING GWB
- BULKHEADS AND SOFFITS TO REMAIN ON LOWER LEVEL AND FLOOR ONE.
- REMOVE CARPET AND RESILIENT BASE ON FLOORS 3 AND 4.
- REMOVE CARPET IN LOUNGE NO. 130.
 REMOVE VCT IN LOUNGE NO. 424.
- REMOVE TACK BOARDS AND ROOM NUMBER SIGNS AT ENTRANCES TO SUITES AND AS INDICATED IN FLOOR
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- INSTALL NEW GRID AND ACOUSTICAL CEILING TILE. • INSTALL NEW GWB BULKHEADS IN CORRIDORS ON
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- INSTALL NEW CARPET AND RESILIENT BASE ON
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 PAINT WALLS, BULKHEADS, SOFFITS, AND HM DOORS
- AND FRAMES. • INSTALL NEW COMBINATION SIGN/TACKBOARD AT ENTRANCES TO SUITES AND WHERE INDICATED IN
- PLANS. • INSTALL NEW DIRECTORY SIGNS AS INDICATED.

ALTERNATE NO. 2:

- REMOVE EXISTING ACOUSTICAL CEILING TILE, SUSPENSION GRID AND LIGHT FIXTURES.
- INSTALL NEW GRID AND ACOUSTICAL CEILING TILE AT SAME HEIGHT AS EXISTING.



Xavier University Buenger Hall



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



GENERAL NOTES - FLOOR PLANS

1. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

2. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

3. IN AREAS OF NEW WORK IN EXISTING FLOORS, WALLS AND CEILINGS, EXISTING SURFACES TO BE PATCHED, FINISHED AND PAINTED TO MATCH EXISTING.

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r		
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ALTERNATE NO. 1:

- REMOVE EXISTING ACOUSTICAL CEILING TILE,
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- INSTALL NEW GWB BULKHEADS IN CORRIDORS ON FLOORS 3 AND 4, SIMILAR TO THOSE AT FLOOR 2.
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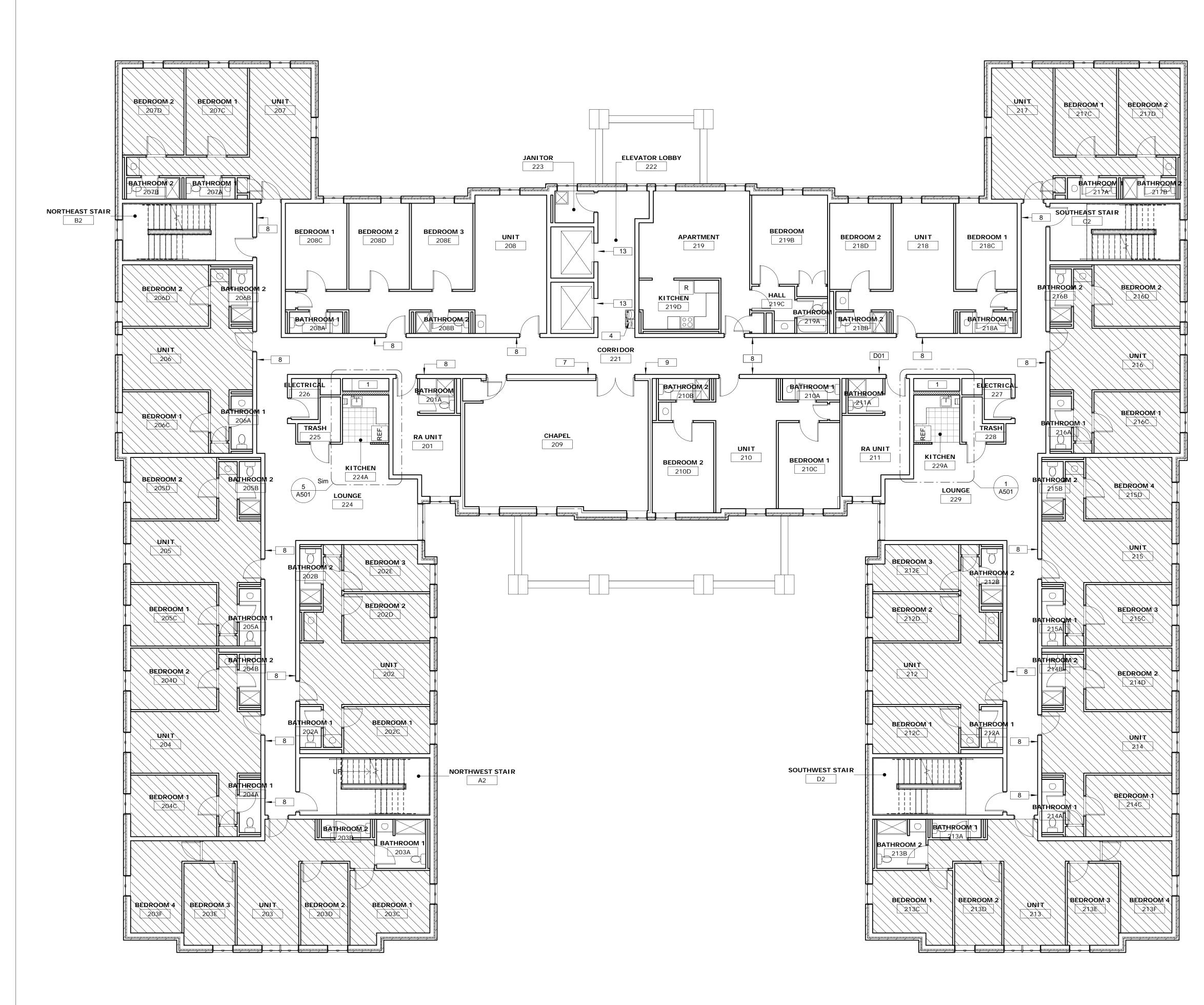
ALTERNATE NO. 2:

- REMOVE EXISTING ACOUSTICAL CEILING TILE, SUSPENSION
- GRID AND LIGHT FIXTURES.
 INSTALL NEW GRID AND ACOUSTICAL CEILING TILE AT SAME HEIGHT AS EXISTING.

Xavier University Buenger Hall Renovation

3848 Ledgewood Drive Cincinnati, Ohio 45207 Project #: 16016







GENERAL NOTES - FLOOR PLANS

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5	NEW CMU BEARING WALL - SEE STRUCTURAL AND PARTITION SCHEDULE.			
6	NEW CMU WALL - SEE PARTITION SCHEDULE.			
7	NEW ROOM SIGN - SEE SHEET A700.			
7A	ALTERNATE NO. 1: NEW ROOM SIGN - SEE SHEET A700.			
8	NEW COMBINATION SIGN/TACK BOARD - SEE SHEET A700.			
8A	ALTERNATE NO. 1: NEW COMBINATION SIGN/TACK BOARD - SEE SHEET A700.			
9	NEW DIRECTORY - SEE SHEET A700.			
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ALTERNATES LEGEND

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- REMOVE EXISTING ACOUSTICAL CEILING TILE,
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 REMOVE VCT IN LOUNGE NO. 424.
 REMOVE TACK BOARDS AND ROOM NUMBER SIGNS AT
- ENTRANCES TO SUITES AND AS INDICATED IN FLOOR PLANS.
- REMOVE DIRECTORY SIGN IN CORRIDOR.
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- INSTALL NEW GWB BULKHEADS IN CORRIDORS ON FLOORS 3 AND 4, SIMILAR TO THOSE AT FLOOR 2. INSTALL NEW CARPET AND RESILIENT BASE ON
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ALTERNATE NO. 2:

- REMOVE EXISTING ACOUSTICAL CEILING TILE, SUSPENSION GRID AND LIGHT FIXTURES.
- INSTALL NEW GRID AND ACOUSTICAL CEILING TILE AT SAME HEIGHT AS EXISTING.

Xavier University Buenger Hall Renovation

3848 Ledgewood Drive Cincinnati, Ohio 45207 Project #: 16016 304 East Eighth Cincinnati OH 45202-2231 v. (513) 665-9555 f. (513) 665-9857 glaserworks architecture & urban design M.H. MALTINSKY, LICENSE #10108 EXPIRATION DATE 12/31/2017 PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS: **Motz Engineering** 300 West 4th Street, Suite 300 Cincinnati, OH 45202-2666 T: 513.621.5400 F: 513.621.5407 MEP Design Security Sustainable Design Commissioning Design/Build STRUCTURAL ENGINEERS: schæfer 10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 T: 513.542.3300 F: 513.542.5540 SHEET REVISION REV # DATE DESCRIPTION

A202

DATE

2/16/2017

DESCRIPTION

FLOOR PLAN -

SECOND FLOOR

BIDDING AND PERMIT



1 | FLOOR PLAN - THIRD FLOOR

1/8" = 1'-0"



GENERAL NOTES - FLOOR PLANS

1. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION. 2. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

3. IN AREAS OF NEW WORK IN EXISTING FLOORS, WALLS AND CEILINGS, EXISTING SURFACES TO BE PATCHED, FINISHED AND PAINTED TO MATCH EXISTING.

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5. VERIFY DIMENSIONS AND EXISTING CONDITIONS IN FIELD.

KEYNOTES - FLOOR PLANS		
Number	Keynote	
1	NEW 2-HOUR FIRE RESISTANCE RATED SHAFT	
2	GROUT EXISTING CMU WALL SOLID IN AREA SHOWN SHADED.	
3	EXISTING CASEWORK TO BE REINSTALLED THIS LOCATION - SEE ELEVATION.	
4	NEW DRINKING FOUNTAIN (SEE PLUMBING) - MOUNT AT 30" AFF TO LOW SPOUT.	
5	NEW CMU BEARING WALL - SEE STRUCTURAL AND PARTITION SCHEDULE.	
6	NEW CMU WALL - SEE PARTITION SCHEDULE.	
7	NEW ROOM SIGN - SEE SHEET A700.	
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11	NEW VCT FLOORING PER ALTERNATE NO. 1.	
12	RETROFIT BOTTLE FILLER TO EXISTING DRINKING FOUNTAIN - SEE PLUMBING.	
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ALTERNATES LEGEND

ALTERNATE NO. 1:

- REMOVE EXISTING ACOUSTICAL CEILING TILE,
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 REMOVE VCT IN LOUNGE NO. 424.
 REMOVE TACK BOARDS AND ROOM NUMBER SIGNS AT ENTRANCES TO SUITES AND AS INDICATED IN FLOOR PLANS.
- REMOVE DIRECTORY SIGN IN CORRIDOR.
 INSTALL NEW GRID AND ACOUSTICAL CEILING TILE.
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- AND FRAMES. INSTALL NEW COMBINATION SIGN/TACKBOARD AT ENTRANCES TO SUITES AND WHERE INDICATED IN
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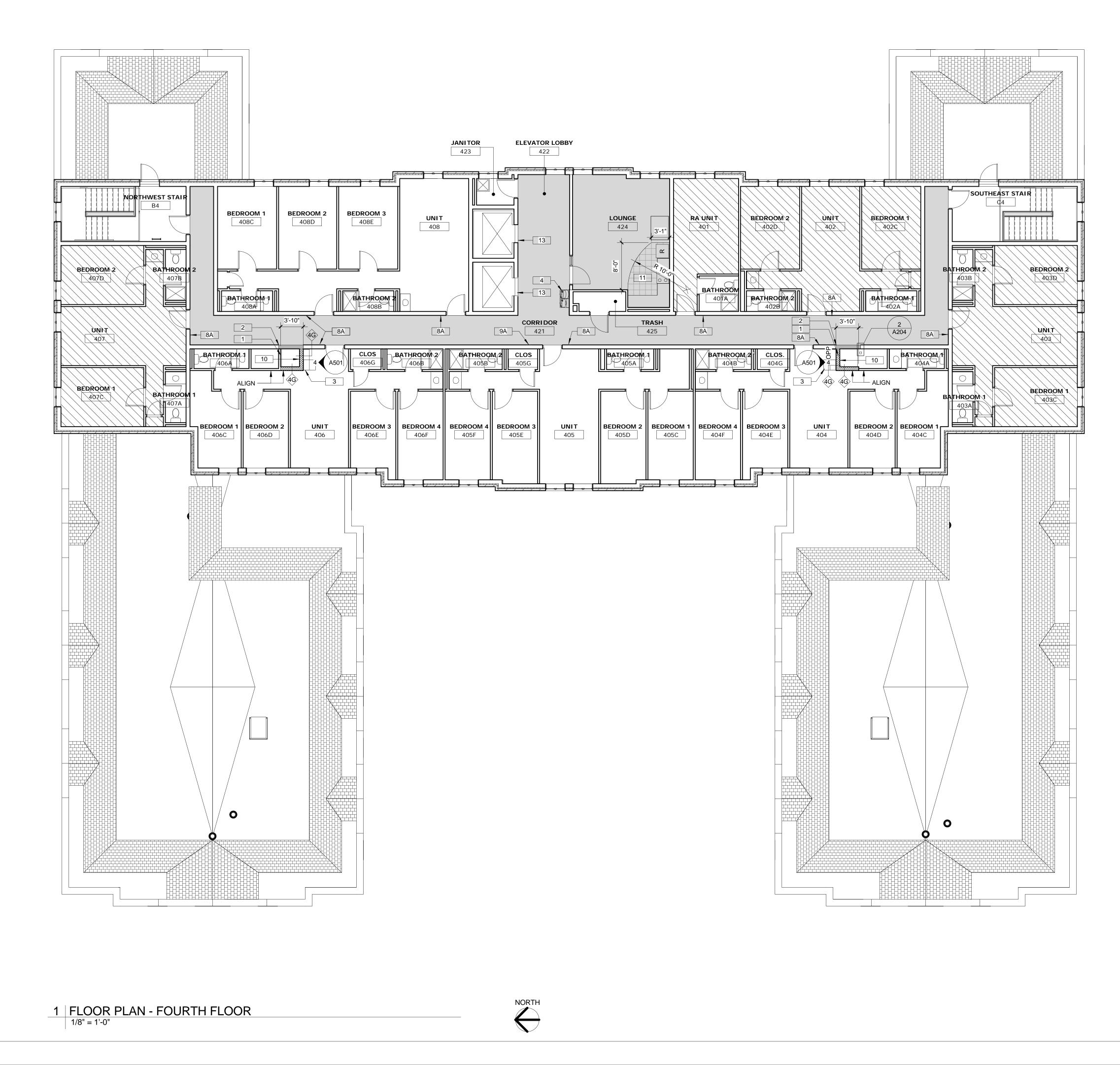
ALTERNATE NO. 2:

- REMOVE EXISTING ACOUSTICAL CEILING TILE, SUSPENSION
- GRID AND LIGHT FIXTURES. • INSTALL NEW GRID AND ACOUSTICAL CEILING TILE AT SAME HEIGHT AS EXISTING.

Xavier University Buenger Hall Renovation

3848 Ledgewood Drive Cincinnati, Ohio 45207 Project #: 16016



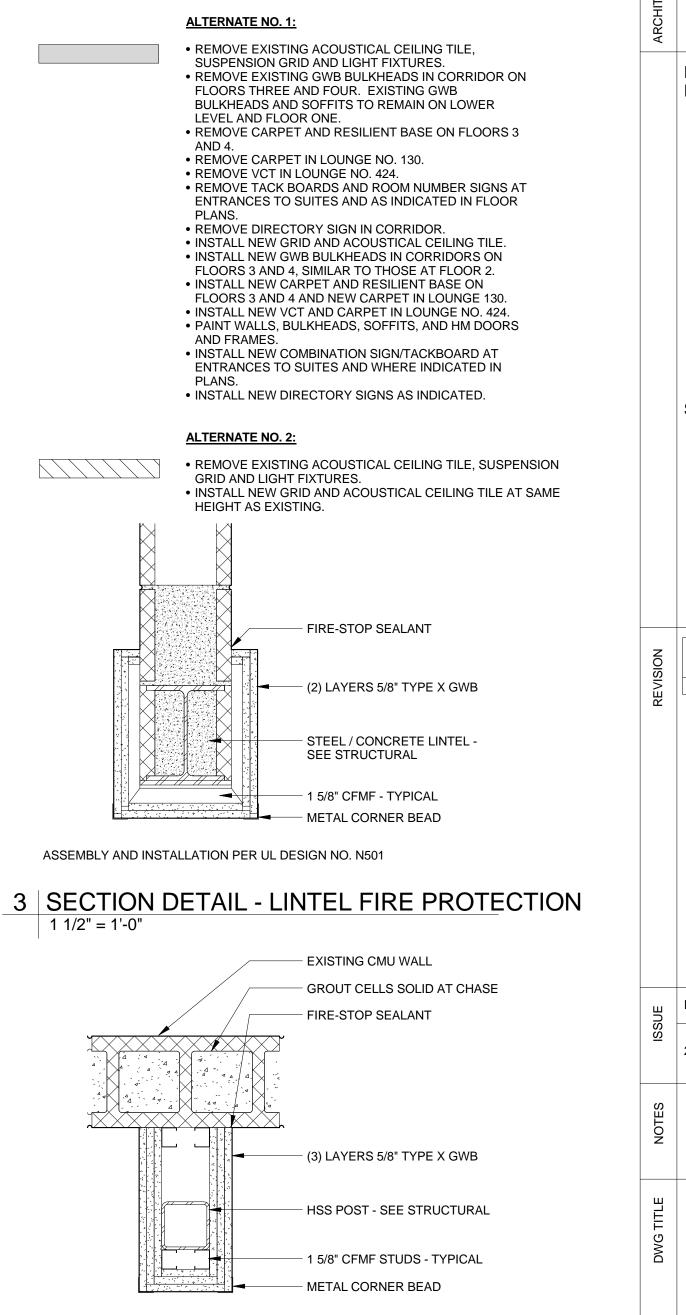


GENERAL NOTES - FLOOR PLANS

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- 3. IN AREAS OF NEW WORK IN EXISTING FLOORS, WALLS AND CEILINGS, EXISTING SURFACES TO BE PATCHED, FINISHED AND PAINTED TO MATCH EXISTING.
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KEYNOTES - FLOOR PLANS			
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13	ELEVATOR DOORS AND FRAMES TO BE PAINTED IN BASE BID OR ALTERNATES TO BE PAINTED ELECTROSTATICALLY.		

ALTERNATES LEGEND



ASSEMBLY AND INSTALLATION PER UL DESIGN NO. X528

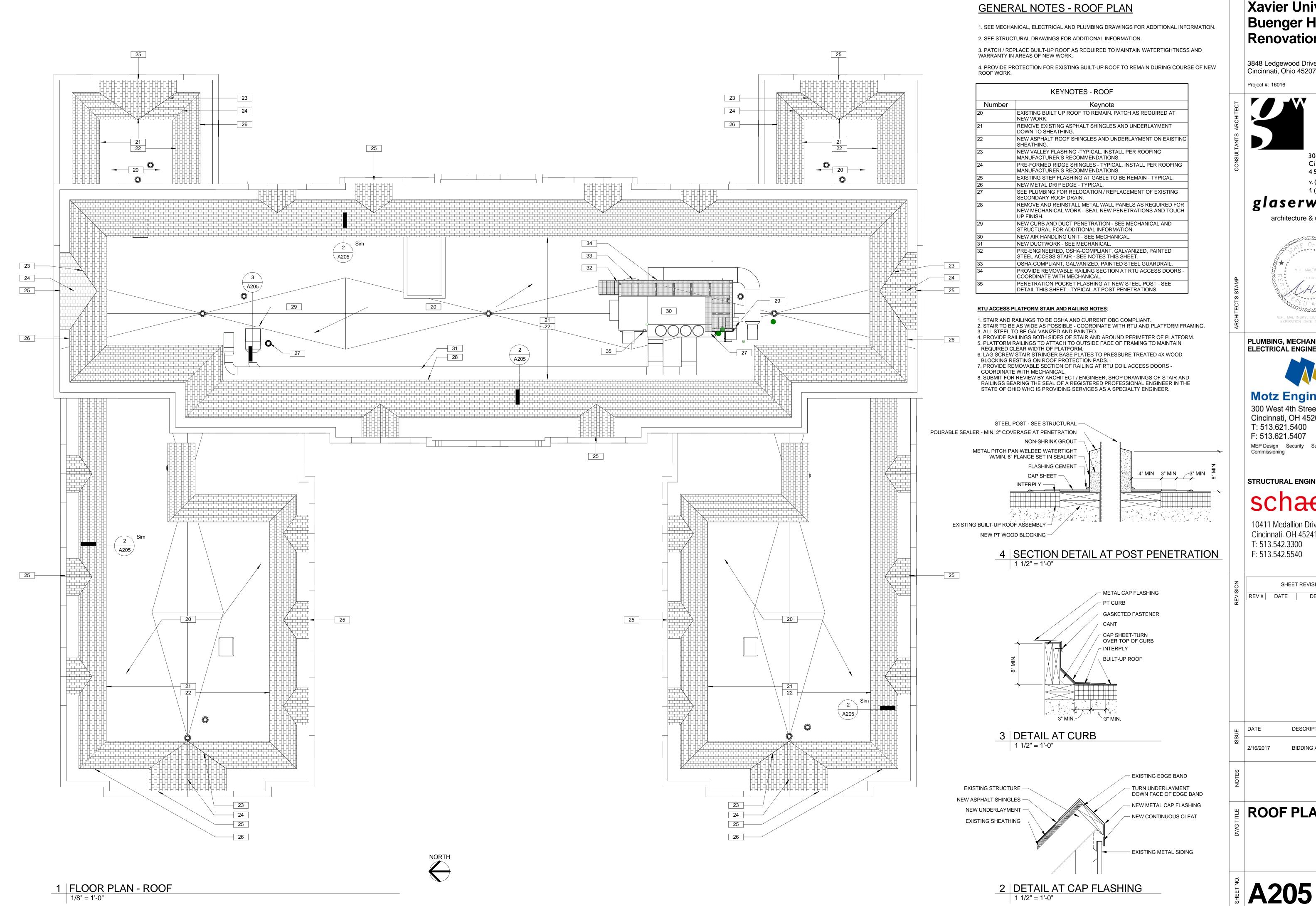
2 PLAN DETAIL - COLUMN FIRE PROTECTION 1 1/2" = 1'-0"

PRINT DATE: 2/16/2017 10:14:26 AM

Xavier University **Buenger Hall** Renovation 3848 Ledgewood Drive Cincinnati, Ohio 45207 Project #: 16016 304 East Eighth Cincinnati OH 45202-2231 v. (513) 665-9555 f. (513) 665-9857 glaserworks architecture & urban design M.H. MALTINSKY, LICENSE #10106 EXPIRATION DATE 12/31/2017 PLUMBING, MECHANICAL & **ELECTRICAL ENGINEERS: Motz Engineering** 300 West 4th Street, Suite 300 Cincinnati, OH 45202-2666 T: 513.621.5400 F: 513.621.5407 MEP Design Security Sustainable Design Commissioning Design/Build STRUCTURAL ENGINEERS: schæfer 10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 T: 513.542.3300 F: 513.542.5540 SHEET REVISION REV # DATE DESCRIPTION DESCRIPTION DATE BIDDING AND PERMIT 2/16/2017



A204

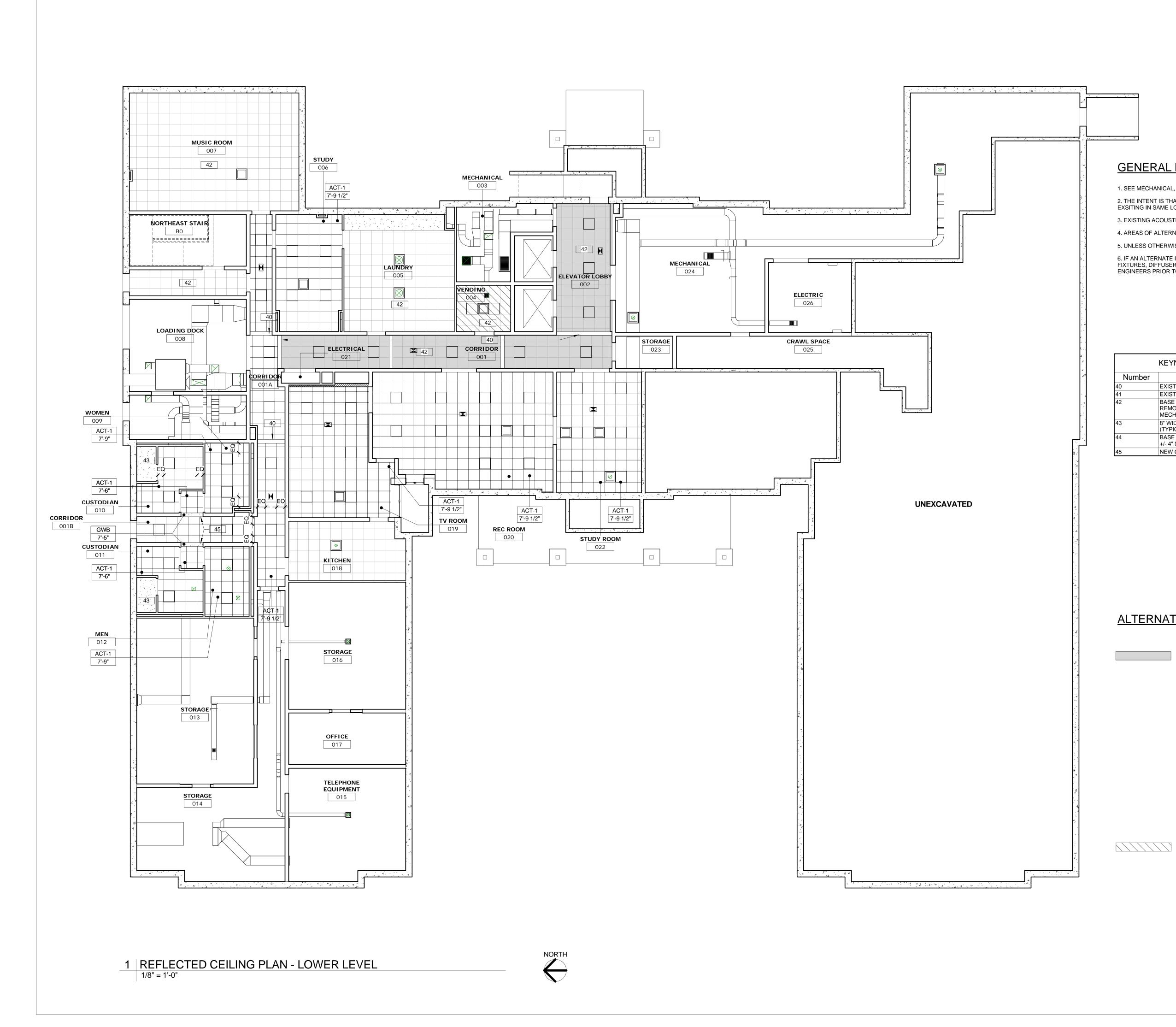


	KEYNOTES - ROOF
Number	Keynote
20	EXISTING BUILT UP ROOF TO REMAIN. PATCH AS REQUIRED AT NEW WORK.
21	REMOVE EXISTING ASPHALT SHINGLES AND UNDERLAYMENT DOWN TO SHEATHING.
22	NEW ASPHALT ROOF SHINGLES AND UNDERLAYMENT ON EXISTING SHEATHING.
23	NEW VALLEY FLASHING -TYPICAL. INSTALL PER ROOFING MANUFACTURER'S RECOMMENDATIONS.
24	PRE-FORMED RIDGE SHINGLES - TYPICAL. INSTALL PER ROOFING MANUFACTURER'S RECOMMENDATIONS.
25	EXISTING STEP FLASHING AT GABLE TO BE REMAIN - TYPICAL.
26	NEW METAL DRIP EDGE - TYPICAL.
27	SEE PLUMBING FOR RELOCATION / REPLACEMENT OF EXISTING SECONDARY ROOF DRAIN.
28	REMOVE AND REINSTALL METAL WALL PANELS AS REQUIRED FOR NEW MECHANICAL WORK - SEAL NEW PENETRATIONS AND TOUCH UP FINISH.
29	NEW CURB AND DUCT PENETRATION - SEE MECHANICAL AND STRUCTURAL FOR ADDITIONAL INFORMATION.
30	NEW AIR HANDLING UNIT - SEE MECHANICAL.
31	NEW DUCTWORK - SEE MECHANICAL.
32	PRE-ENGINEERED, OSHA-COMPLIANT, GALVANIZED, PAINTED STEEL ACCESS STAIR - SEE NOTES THIS SHEET.
33	OSHA-COMPLIANT, GALVANIZED, PAINTED STEEL GUARDRAIL.
34	PROVIDE REMOVABLE RAILING SECTION AT RTU ACCESS DOORS - COORDINATE WITH MECHANICAL.
35	PENETRATION POCKET FLASHING AT NEW STEEL POST - SEE DETAIL THIS SHEET - TYPICAL AT POST PENETRATIONS.

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Xavier University Buenger Hall Renovation

3848 Ledgewood Drive Cincinnati, Ohio 45207 Project #: 16016 304 East Eighth Cincinnati OH 45202-2231 v. (513) 665-9555 f. (513) 665-9857 glaserworks architecture & urban design M.H. MALTINSKY, LICENSE #10106 EXPIRATION DATE 12/31/2017 PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS: **Motz Engineering** 300 West 4th Street, Suite 300 Cincinnati, OH 45202-2666 T: 513.621.5400 F: 513.621.5407 MEP Design Security Sustainable Design Commissioning Design/Build Commissioning STRUCTURAL ENGINEERS: schæfer 10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 T: 513.542.3300 F: 513.542.5540 SHEET REVISION REV # DATE DESCRIPTION DESCRIPTION DATE BIDDING AND PERMIT 2/16/2017 **ROOF PLAN**



GENERAL NOTES - REFLECTED CEILING PLANS

1. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION. 2. THE INTENT IS THAT NEW ACOUSTICAL CEILINGS TYPICALLY BE INSTALLED AT SAME HEIGHT AS EXSITING IN SAME LOCATION. VERIFY EXISTING CEILING HEIGHTS.

3. EXISTING ACOUSTICAL TILE CEILINGS ARE SHOWN AS HALFTONE (GREY.)

4. AREAS OF ALTERNATES ARE SHOWN HATCHED AND SHADED - SEE ALTERNATES LEGEND.

5. UNLESS OTHERWISE NOTED, CENTER CEILING GRIDS IN ROOMS AND SPACES AS INDICATED.

6. IF AN ALTERNATE IS ACCEPTED, VERIFY LAYOUT OF ACOUSTICAL CEILING GRIDS, LIGHT FIXTURES, DIFFUSERS, GRILLES AND ALL CEILING-MOUNTED DEVICES WITH ARCHITECT AND ENGINEERS PRIOR TO BEGINNING WORK IN ALTERNATE AREA.

KEYNOTES - REFLECTED CEILING PLAN		
Number	Keynote	
40	EXISTING GWB SOFFIT TO REMAIN - TYPICAL.	
41	EXISTING GWB CEILING TO REMAIN - TYPICAL.	
42	BASE BID: EXISTING ACOUSTICAL TILE CEILING TO REMAIN - REMOVE AND REINSTALL TILE AS REQUIRED TO ACCOMPLISH NEW MECHANICAL WORK.	
43	8" WIDE GWB BULKHEAD FLUSH WITH ADJACENT CEILING (TYPICAL): 5/8" GWB ON CFMF.	
44	BASE BID: EXTEND EXISTING ACOUSTICAL CEILING GRID AND TILE +/- 4" SOUTH IN AREA WHERE WALL FURRING WAS REMOVED.	
45	NEW GWB BULKHEAD: 5/8"GWB ON CFMF.	

ALTERNATES LEGEND

ALTERNATE NO. 1:

- REMOVE EXISTING ACOUSTICAL CEILING TILE, SUSPENSION GRID AND LIGHT FIXTURES.
- REMOVE EXISTING GWB BULKHEADS IN CORRIDOR ON FLOORS THREE AND FOUR. EXISTING GWB BULKHEADS AND SOFFITS TO REMAIN ON LOWER
- LEVEL AND FLOOR ONE. • REMOVE CARPET AND RESILIENT BASE ON FLOORS 3
- AND 4. • REMOVE CARPET IN LOUNGE NO. 130.
- REMOVE VCT IN LOUNGE NO. 424.
 REMOVE TACK BOARDS AND ROOM NUMBER SIGNS AT ENTRANCES TO SUITES AND AS INDICATED IN FLOOR PLANS.
- REMOVE DIRECTORY SIGN IN CORRIDOR.
 INSTALL NEW GRID AND ACOUSTICAL CEILING TILE.
- INSTALL NEW GWB BULKHEADS IN CORRIDORS ON FLOORS 3 AND 4, SIMILAR TO THOSE AT FLOOR 2.
- INSTALL NEW CARPET AND RESILIENT BASE ON
- FLOORS 3 AND 4 AND NEW CARPET IN LOUNGE 130. • INSTALL NEW VCT AND CARPET IN LOUNGE NO. 424. • PAINT WALLS, BULKHEADS, SOFFITS, AND HM DOORS AND FRAMES.
- INSTALL NEW COMBINATION SIGN/TACKBOARD AT ENTRANCES TO SUITES AND WHERE INDICATED IN
- PLANS. • INSTALL NEW DIRECTORY SIGNS AS INDICATED.

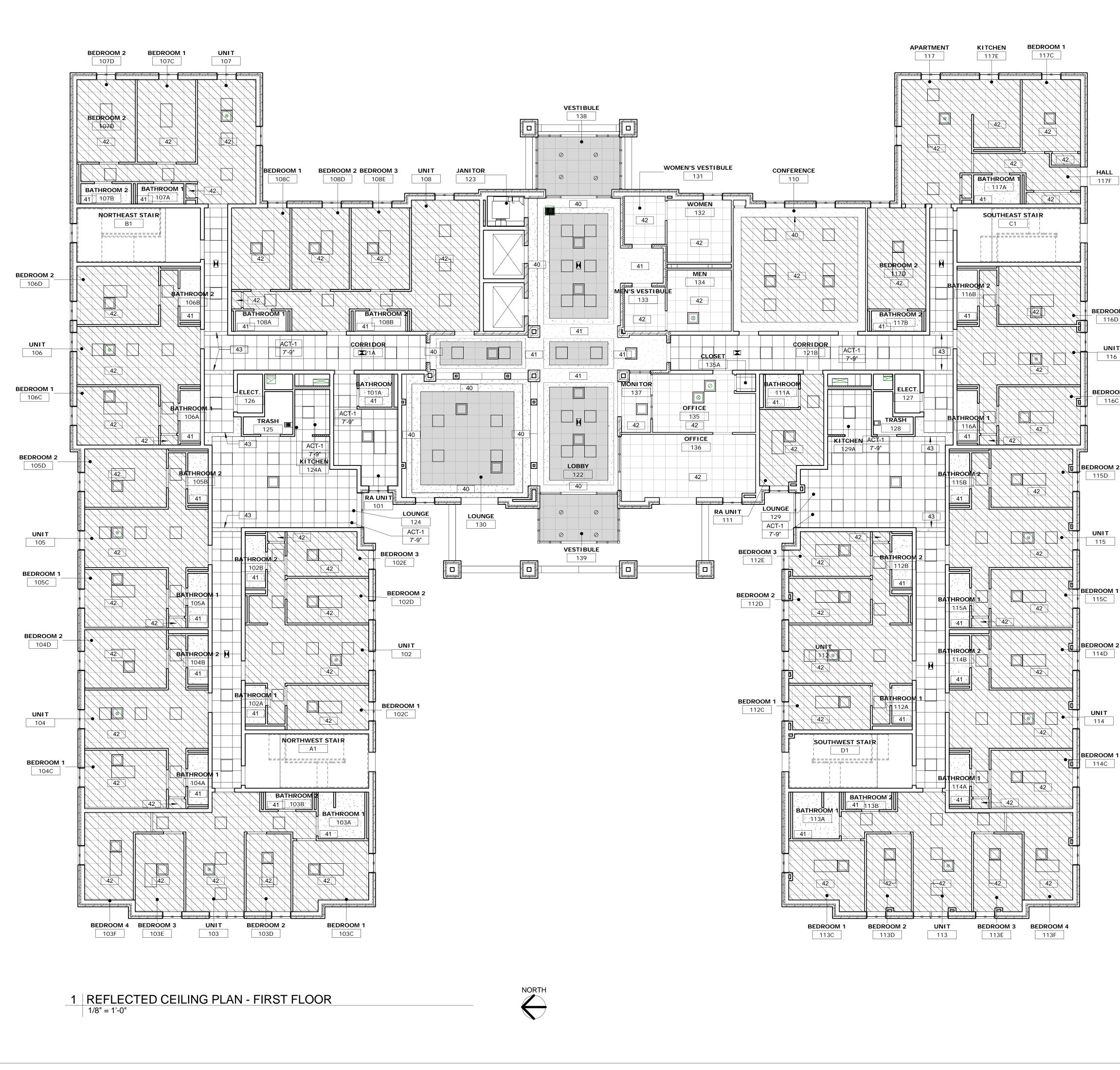
ALTERNATE NO. 2:

- REMOVE EXISTING ACOUSTICAL CEILING TILE, SUSPENSION GRID AND LIGHT FIXTURES.
- INSTALL NEW GRID AND ACOUSTICAL CEILING TILE AT SAME HEIGHT AS EXISTING.

Xavier University Buenger Hall Renovation

3848 Ledgewood Drive Cincinnati, Ohio 45207





GENERAL NOTES - REFLECTED CEILING PLANS

1. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION 2. THE INTENT IS THAT NEW ACOUSTICAL CEILINGS TYPICALLY BE INSTALLED AT SAME HEIGHT AS EXSITING IN SAME LOCATION. VERIFY EXISTING CEILING HEIGHTS.

- 3. EXISTING ACOUSTICAL TILE CEILINGS ARE SHOWN AS HALFTONE (GREY.)
- 4. AREAS OF ALTERNATES ARE SHOWN HATCHED AND SHADED SEE ALTERNATES LEGEND.
- 5. UNLESS OTHERWISE NOTED, CENTER CEILING GRIDS IN ROOMS AND SPACES AS INDICATED.

6. IF AN ALTERNATE IS ACCEPTED, VERIFY LAYOUT OF ACOUSTICAL CEILING GRIDS, LIGHT FIXTURES, DIFFUSERS, GRILLES AND ALL CEILING-MOUNTED DEVICES WITH ARCHITECT AND ENGINEERS PRIOR TO BEGINNING WORK IN ALTERNATE AREA.

	KEYNOTES - REFLECTED CEILING PLAN		
	Number	Keynote	
DROOM 2 116D	40	EXISTING GWB SOFFIT TO REMAIN - TYPICAL.	
	41	EXISTING GWB CEILING TO REMAIN - TYPICAL.	
	42	BASE BID: EXISTING ACOUSTICAL TILE CEILING TO REMAIN - REMOVE AND REINSTALL TILE AS REQUIRED TO ACCOMPLISH NEW MECHANICAL WORK.	
UNIT 116	43	8" WIDE GWB BULKHEAD FLUSH WITH ADJACENT CEILING (TYPICAL): 5/8" GWB ON CFMF.	
	44	BASE BID: EXTEND EXISTING ACOUSTICAL CEILING GRID AND TILE +/- 4" SOUTH IN AREA WHERE WALL FURRING WAS REMOVED.	
	45	NEW GWB BULKHEAD: 5/8"GWB ON CFMF.	
DROOM 1			
116C			

BEDROOM 2 115D

> UNIT 115

BEDROOM 2

ALTERNATES LEGEND

ALTERNATE NO. 1:

AND 4.

PLANS.

AND FRAMES.

ALTERNATE NO. 2:

GRID AND LIGHT FIXTURES.

HEIGHT AS EXISTING.

PLANS.

LEVEL AND FLOOR ONE.

• REMOVE EXISTING ACOUSTICAL CEILING TILE, SUSPENSION GRID AND LIGHT FIXTURES.

FLOORS THREE AND FOUR. EXISTING GWB

REMOVE CARPET IN LOUNGE NO. 130.REMOVE VCT IN LOUNGE NO. 424.

• REMOVE DIRECTORY SIGN IN CORRIDOR

• REMOVE EXISTING GWB BULKHEADS IN CORRIDOR ON

BULKHEADS AND SOFFITS TO REMAIN ON LOWER

• REMOVE CARPET AND RESILIENT BASE ON FLOORS 3

• REMOVE TACK BOARDS AND ROOM NUMBER SIGNS AT

ENTRANCES TO SUITES AND AS INDICATED IN FLOOR

• INSTALL NEW GRID AND ACOUSTICAL CEILING TILE. INSTALL NEW GWB BULKHEADS IN CORRIDORS ON

FLOORS 3 AND 4, SIMILAR TO THOSE AT FLOOR 2.

FLOORS 3 AND 4 AND NEW CARPET IN LOUNGE 130.

• INSTALL NEW VCT AND CARPET IN LOUNGE NO. 424.

• INSTALL NEW COMBINATION SIGN/TACKBOARD AT ENTRANCES TO SUITES AND WHERE INDICATED IN

• INSTALL NEW DIRECTORY SIGNS AS INDICATED.

• PAINT WALLS, BULKHEADS, SOFFITS, AND HM DOORS

• REMOVE EXISTING ACOUSTICAL CEILING TILE, SUSPENSION

• INSTALL NEW GRID AND ACOUSTICAL CEILING TILE AT SAME

• INSTALL NEW CARPET AND RESILIENT BASE ON

UNIT 114

114C

Xavier University **Buenger Hall** Renovation

3848 Ledgewood Drive Cincinnati, Ohio 45207 Project #: 16016

304 East Eighth Cincinnati OH 45202-2231 v. (513) 665-9555 f. (513) 665-9857 glaserworks architecture & urban design M.H. MALTINSKY, LICENSE #10108 PLUMBING, MECHANICAL & **ELECTRICAL ENGINEERS:**

Motz Engineering 300 West 4th Street, Suite 300 Cincinnati, OH 45202-2666

T: 513.621.5400 F: 513.621.5407 MEP Design Security Sustainable Design Commissioning Design/Build

STRUCTURAL ENGINEERS:

schæter

10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 T: 513.542.3300 F: 513.542.5540 SHEET REVISION REV # DATE DESCRIPTION

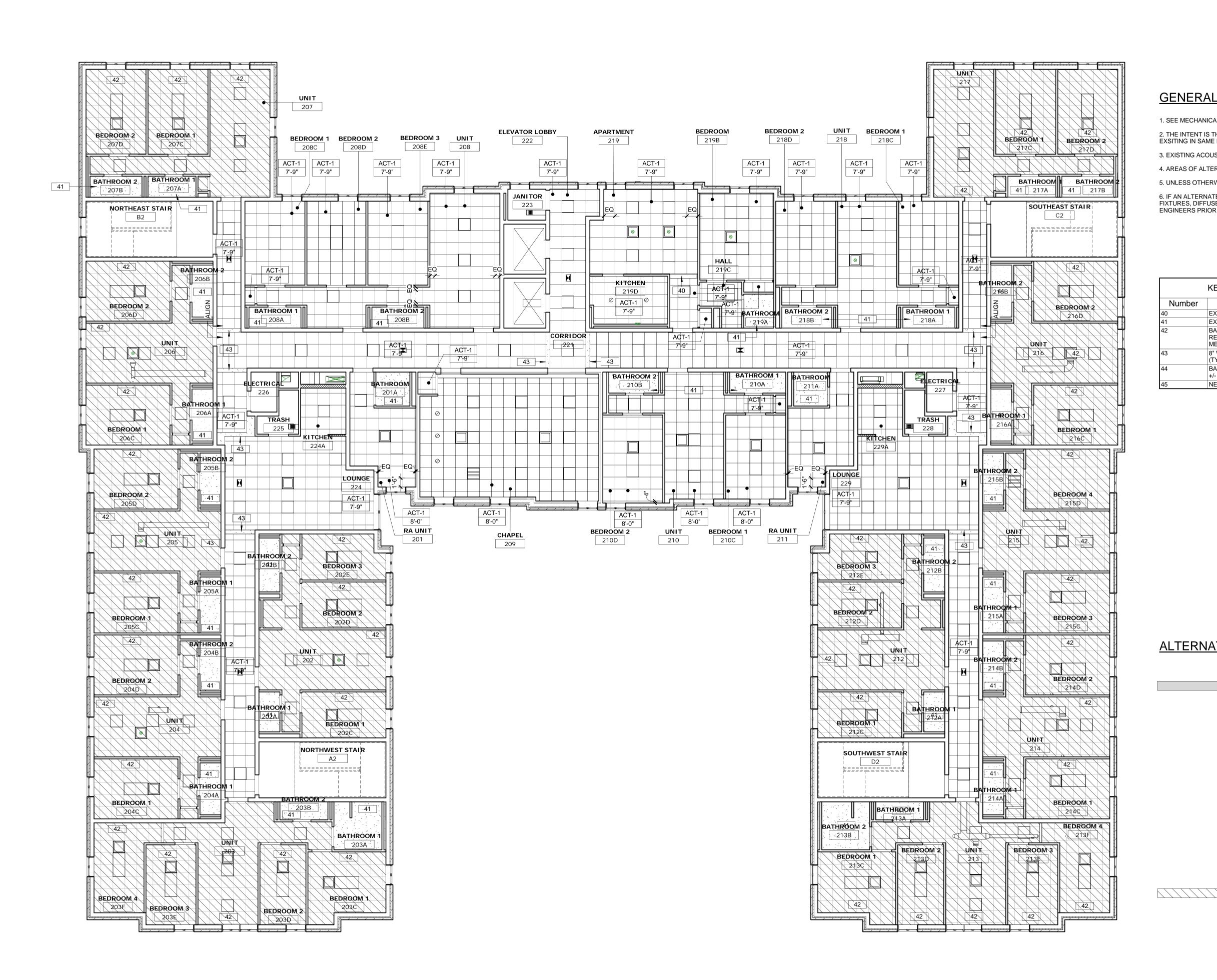
DATE 2/16/2017

DESCRIPTION

BIDDING AND PERMIT

REFLECTED **CEILING PLAN -FIRST FLOOR**

A221





<u>GENERAL NOTES - REFLECTED CEILING PLANS</u>

 SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
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ALTERNATES LEGEND

ALTERNATE NO. 1:

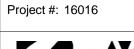
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Xavier University Buenger Hall Renovation

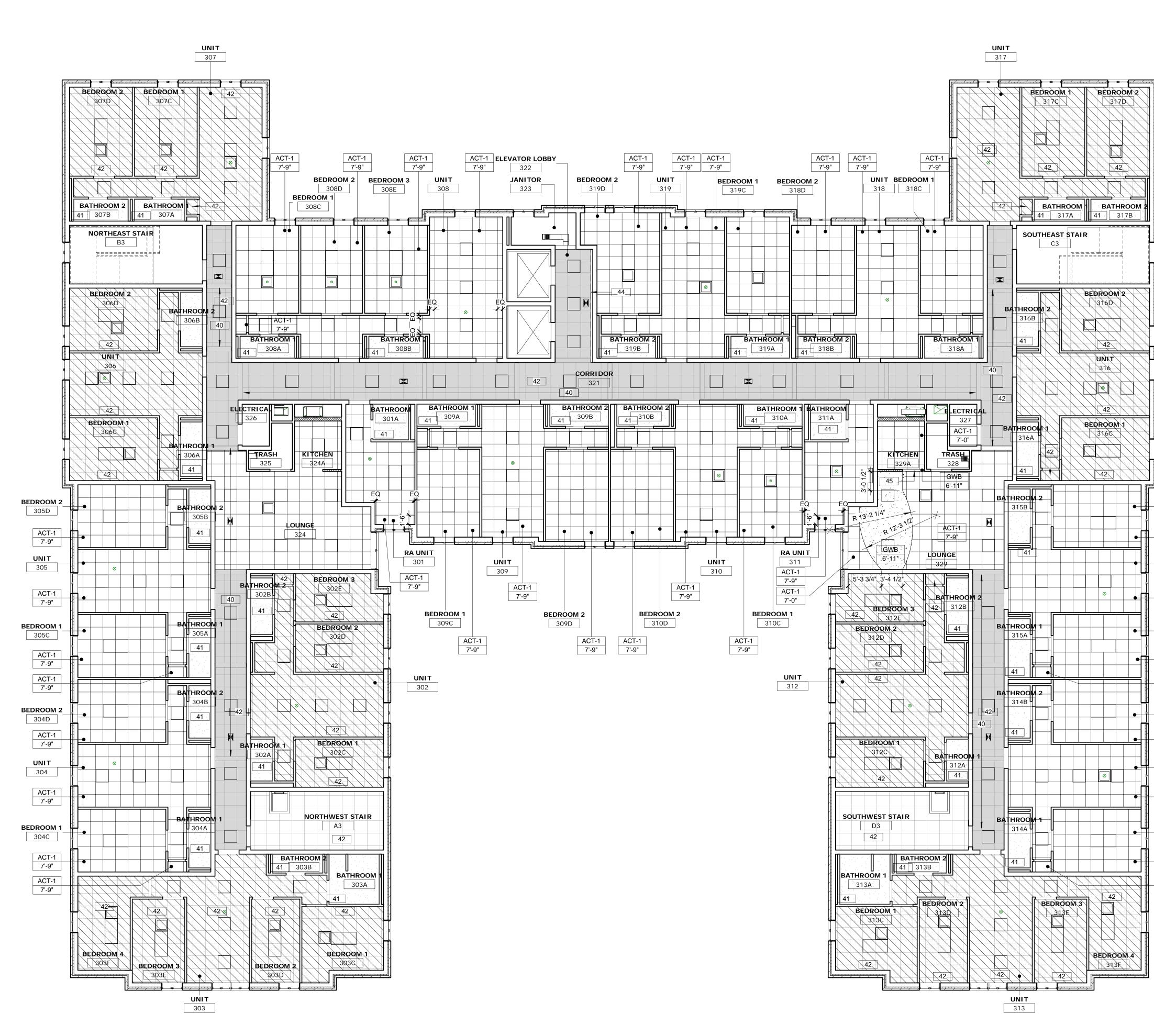
3848 Ledgewood Drive Cincinnati, Ohio 45207











NORTH $\left(\begin{array}{c} \\ \end{array} \right)$

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UNIT

315

ACT-1 7'-9"

BEDROOM 1 315C

ACT-1 7'-9"	
ACT-1	
7'_9"	

7'-9"	
BEDROOM	1

314D

 ACT-1 7'-9"
UNIT
314
ACT-1

7'-9"

BEDROOM 1

314C	
ACT-1	
7'-9"	
ACT-1	
7'-9"	

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ALTERNATE NO. 2:

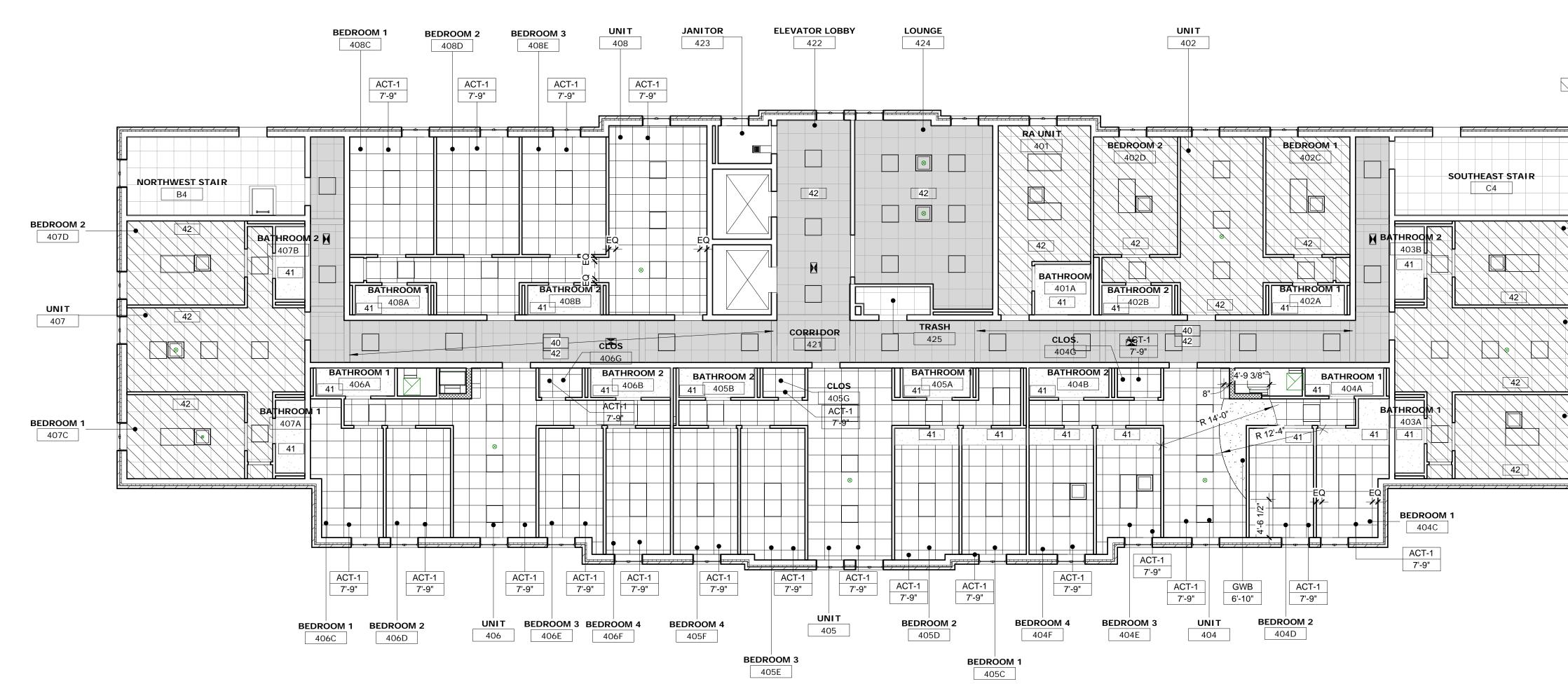
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Xavier University **Buenger Hall** Renovation

3848 Ledgewood Drive Cincinnati, Ohio 45207









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FIXTURES, DIFFUSERS, GRILLES AND ALL CEILING-MOUNTED DEVICES WITH ARCHITECT AND ENGINEERS PRIOR TO BEGINNING WORK IN ALTERNATE AREA.

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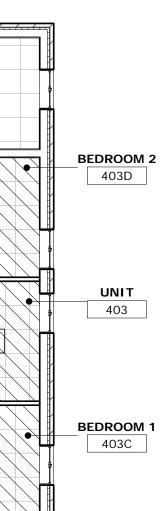
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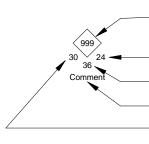
UNIT

403

Xavier University Buenger Hall Renovation
348 Ledgewood Drive Incinnati, Ohio 45207

-	SHEET NO. DWG TITLE	CEILING PLAN - FOURTH FLOOR
-	TLE NOTES	REFLECTED
	ISSUE	DATE DESCRIPTION 2/16/2017 BIDDING AND PERMIT
	REVISION	SHEET REVISION REV # DATE DESCRIPTION
		PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS:
	ARCHITECT'S STAMP	f. (513) 665-9857 glaserworks architecture & urban design
	CONSULTANTS ARCHITECT	304 East Eighth Cincinnati OH 4 5 2 0 2 - 2 2 3 I v. (513) 665-9555

CASEWORK LEGEND & ABBREVIATIONS



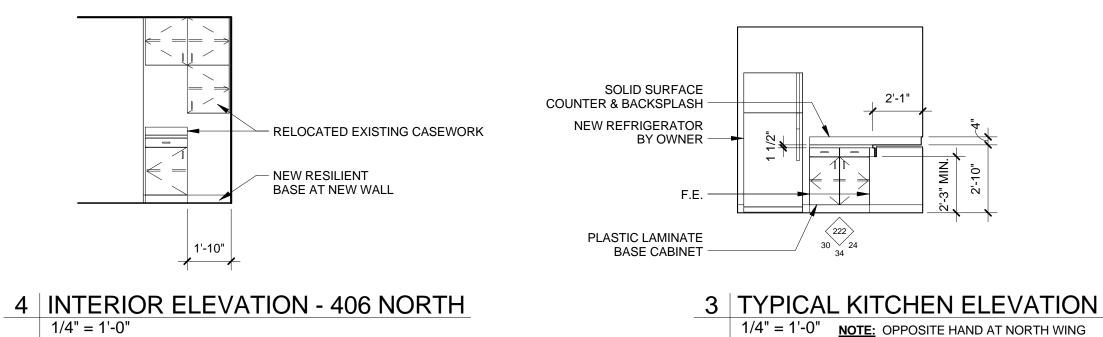
CABINET CONFIGURATION (BASED ON AWI CONFIGURATION STANDARDS)

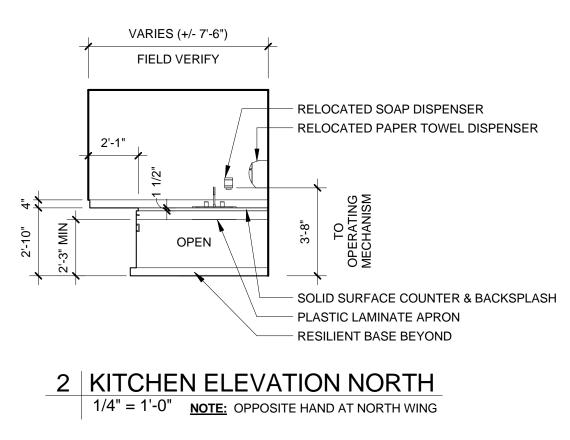
- NOMINAL DEPTH - NOMINAL HEIGHT TO TOP OF COUNTERTOP

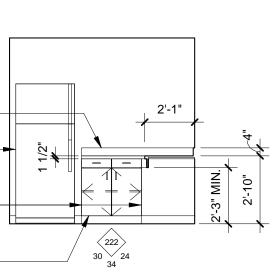
TYPE OF SPECIALITY CABINET

NOMINAL WIDTH

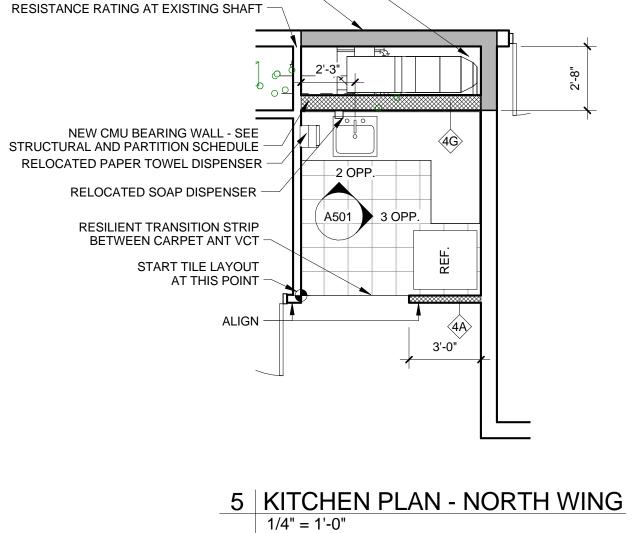
F.E. - FINISHED END, INCLUDING ANY FILLER OR CLOSURE PANELS REQUIRED





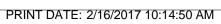


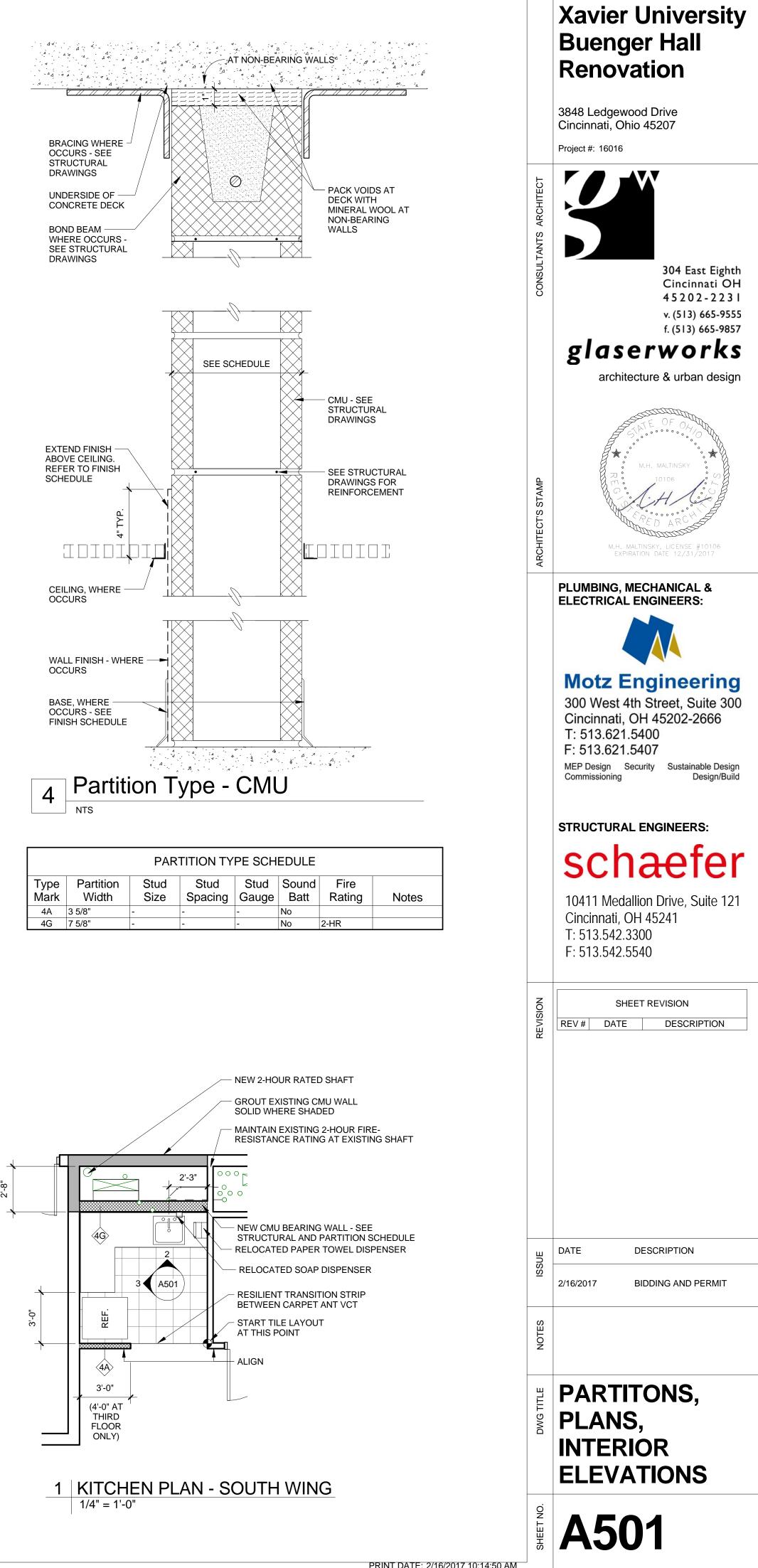
1/4" = 1'-0" **NOTE:** OPPOSITE HAND AT NORTH WING



GROUT EXISTING CMU WALL SOLID WHERE SHADED -

MAINTAIN EXISTING 2-HOUR FIRE-





				R	OOM FINISH	I SCHEDULE	- BASE BID			
Level	Number 001A	Name	Floor Finish	Base Finish	Wall Finish East CMU / PAINT	Wall Finish North CMU / PAINT	Wall Finish South CMU / PAINT	Wall Finish West CMU / PAINT	Ceiling Finish ACT-1 / EXISTING GWB	Comments
LOWER LEVEL	001B 006	CORRIDOR STUDY	CPT	RB	CMU / PAINT CMU / PAINT	CMU / PAINT CMU / PAINT	CMU / PAINT GWB / PAINT	CMU / PAINT CMU / PAINT	ACT-1 / GWB ACT-1	
	009	WOMEN							ACT-1	
LOWER LEVEL	010	CUSTODIAN CUSTODIAN							ACT-1 ACT-1	
	012	MEN	ODT	DD					ACT-1	
LOWER LEVEL	019 020	TV ROOM REC ROOM	CPT CPT	RB RB	CMU / PAINT CMU / PAINT	CMU / PAINT CMU / PAINT	CMU / PAINT GWB / PAINT	CMU / PAINT GWB / PAINT	ACT-1 ACT-1	ACCENT COLOR SOUTH WALL ACCENT COLOR NORTH WALL
LOWER LEVEL FIRST FLOOR	022	STUDY ROOM RA UNIT	CPT	RB	CMU / PAINT	GWB / PAINT	GWB / PAINT	GWB / PAINT	ACT-1 ACT-1	
FIRST FLOOR	101 121A	CORRIDOR	CPT	RB	CMU / PAINT	CMU / PAINT	CMU / PAINT	CMU / PAINT	ACT-1/GWB	
FIRST FLOOR	121B	CORRIDOR LOUNGE	CPT	RB	CMU / PAINT CMU / PAINT		CMU / PAINT	CMU / PAINT CMU / PAINT	ACT-1 / GWB ACT-1	ACCENT COLOR WEST WALL
FIRST FLOOR FIRST FLOOR	124 124A	KITCHEN	CPT VCT	RB RB	CMU / PAINT	CMU / PAINT CMU / PAINT	CMU / PAINT CMU / PAINT	CMU / PAINT	ACT-1	ACCENT COLOR WEST WALL
FIRST FLOOR FIRST FLOOR	129 129A	LOUNGE KITCHEN	CPT VCT	RB RB	CMU / PAINT CMU / PAINT	CMU / PAINT CMU / PAINT	CMU / PAINT CMU / PAINT	CMU / PAINT CMU / PAINT	ACT-1 ACT-1	ACCENT COLOR WEST WALL
SECOND FLOOR	201	RAUNIT	VOT						ACT-1	
SECOND FLOOR SECOND FLOOR	208 208C	UNIT BEDROOM 1							ACT-1 ACT-1	
SECOND FLOOR	208D	BEDROOM 2							ACT-1	
SECOND FLOOR SECOND FLOOR	208E 209	BEDROOM 3 CHAPEL							ACT-1 ACT-1 / EXISTING GWB	
SECOND FLOOR	210	UNIT							ACT-1	
SECOND FLOOR SECOND FLOOR	210C 210D	BEDROOM 1 BEDROOM 2							ACT-1 ACT-1	
SECOND FLOOR	211	RA UNIT							ACT-1	
SECOND FLOOR SECOND FLOOR	218 218C	UNIT BEDROOM 1							ACT-1 ACT-1	
SECOND FLOOR	218D	BEDROOM 2							ACT-1	
SECOND FLOOR SECOND FLOOR	219 219B	APARTMENT BEDROOM							ACT-1 ACT-1	
SECOND FLOOR	219C	HALL							ACT-1	
SECOND FLOOR SECOND FLOOR	219D 221	KITCHEN CORRIDOR	CPT	RB	CMU / PAINT	CMU / PAINT	CMU / PAINT	CMU / PAINT	ACT-1 ACT-1	
SECOND FLOOR	222	ELEVATOR LOBBY	CPT	RB	CMU / PAINT	CMU / PAINT	CMU / PAINT		ACT-1	ACCENT COLOR SOUTH WALL
SECOND FLOOR SECOND FLOOR	224 224A	LOUNGE KITCHEN	CPT VCT	RB RB	CMU / PAINT CMU / PAINT	CMU / PAINT CMU / PAINT	CMU / PAINT CMU / PAINT	CMU / PAINT CMU / PAINT	ACT-1 ACT-1	ACCENT COLOR WEST WALL
SECOND FLOOR	229	LOUNGE	CPT	RB	CMU / PAINT	CMU / PAINT	CMU / PAINT	CMU / PAINT	ACT-1	ACCENT COLOR WEST WALL
SECOND FLOOR THIRD FLOOR	229A 301	KITCHEN RA UNIT	VCT	RB	CMU / PAINT	CMU / PAINT	CMU / PAINT	CMU / PAINT	ACT-1 ACT-1	
	304								ACT-1	
THIRD FLOOR THIRD FLOOR	304C 304D	BEDROOM 1 BEDROOM 2							ACT-1 ACT-1	
	305	UNIT BEDROOM 1							ACT-1 ACT-1	
THIRD FLOOR THIRD FLOOR	305C 305D	BEDROOM 2							ACT-1	
THIRD FLOOR THIRD FLOOR	308 308C	UNIT BEDROOM 1							ACT-1 ACT-1	
THIRD FLOOR	308C	BEDROOM 2							ACT-1	
THIRD FLOOR THIRD FLOOR	308E 309	BEDROOM 3 UNIT							ACT-1 ACT-1	
THIRD FLOOR	309C	BEDROOM 1							ACT-1	
THIRD FLOOR THIRD FLOOR	309D 310	BEDROOM 2 UNIT							ACT-1 ACT-1	
THIRD FLOOR	310C	BEDROOM 1							ACT-1	
THIRD FLOOR THIRD FLOOR	310D 311	BEDROOM 2 RA UNIT							ACT-1 ACT-1	
THIRD FLOOR	314	UNIT							ACT-1	
THIRD FLOOR THIRD FLOOR	314C 314D	BEDROOM 1 BEDROOM 2							ACT-1 ACT-1	
THIRD FLOOR	315	UNIT							ACT-1	
THIRD FLOOR THIRD FLOOR	315C 315D	BEDROOM 1 BEDROOM 2							ACT-1 ACT-1	
THIRD FLOOR	318	UNIT							ACT-1	
THIRD FLOOR THIRD FLOOR	318C 318D	BEDROOM 1 BEDROOM 2							ACT-1 ACT-1	
THIRD FLOOR	319	UNIT							ACT-1	
THIRD FLOOR THIRD FLOOR	319C 319D	BEDROOM 1 BEDROOM 2							ACT-1 ACT-1	
	324		CPT	RB	CMU / PAINT	CMU / PAINT	CMU / PAINT	CMU / PAINT	ACT-1	ACCENT COLOR WEST WALL
THIRD FLOOR THIRD FLOOR	324A 329	KITCHEN LOUNGE	VCT CPT	RB RB	CMU / PAINT CMU / PAINT	CMU / PAINT CMU / PAINT	CMU / PAINT CMU / PAINT	CMU / PAINT CMU / PAINT	ACT-1 ACT-1 / GWB	ACCENT COLOR WEST WALL
THIRD FLOOR	329A	KITCHEN	VCT	RB	CMU / PAINT	CMU / PAINT	CMU / PAINT	CMU / PAINT	ACT-1	
FOURTH FLOOR FOURTH FLOOR	404 404C	UNIT BEDROOM 1	CPT	RB	CMU / PAINT	CMU / PAINT	CMU / PAINT	CMU / PAINT	ACT-1 / GWB ACT-1	
FOURTH FLOOR	404D	BEDROOM 2							ACT-1	
FOURTH FLOOR FOURTH FLOOR	404E 404F	BEDROOM 3 BEDROOM 4							ACT-1 ACT-1	
FOURTH FLOOR	404G	CLOS.							ACT-1	
FOURTH FLOOR FOURTH FLOOR	405 405C	UNIT BEDROOM 1							ACT-1 ACT-1	
	405D 405E	BEDROOM 2 BEDROOM 3							ACT-1	
FOURTH FLOOR FOURTH FLOOR	405E 405F	BEDROOM 3 BEDROOM 4							ACT-1 ACT-1	
FOURTH FLOOR	405G	CLOS	СРТ	DR				CMU / PAINT	ACT-1	
FOURTH FLOOR FOURTH FLOOR	406 406C	UNIT BEDROOM 1		RB	CMU / PAINT	CMU / PAINT	CMU / PAINT		ACT-1 ACT-1	
FOURTH FLOOR	406D	BEDROOM 2							ACT-1	
FOURTH FLOOR	406E 406F	BEDROOM 3 BEDROOM 4							ACT-1 ACT-1	
FOURTH FLOOR										
FOURTH FLOOR	406G	CLOS							ACT-1	
		CLOS UNIT BEDROOM 1							ACT-1 ACT-1 ACT-1	

FINISH SCHEDULE NOTES:

CLOSETS IN LIVING UNITS, APARTMENTS AND CHAPEL ARE ASSUMED TO BE PART OF THE ROOM IN WHICH THEY ARE LOCATED AND SHALL RECEIVE THE SAME FINISHES SCHEDULED.
 ROOMS NOT LISTED IN THE FINISH SCHEDULE ARE ASSUMED TO RECEIVE NO NEW FINISHES OTHER THAN THOSE REQUIRED FOR MINOR PATCHING ASSOCIATED WITH NEW MEP WORK.
 BLANK CELLS INDICATE NO NEW FINISHES OTHER THAN THOSE REQUIRED FOR MINOR PATCHING ASSOCIATED WITH NEW MEP WORK.
 VERIFY CARPET ORIENTATION WITH ARCHITECT PRIOR TO INSTALLATION.

FINISHES ABBREVIATIONS:

ACT ACOUSTICAL CEILING TILE CPT CARPET GWB GYPSUM WALL BOARD RB RESILIENT BASE

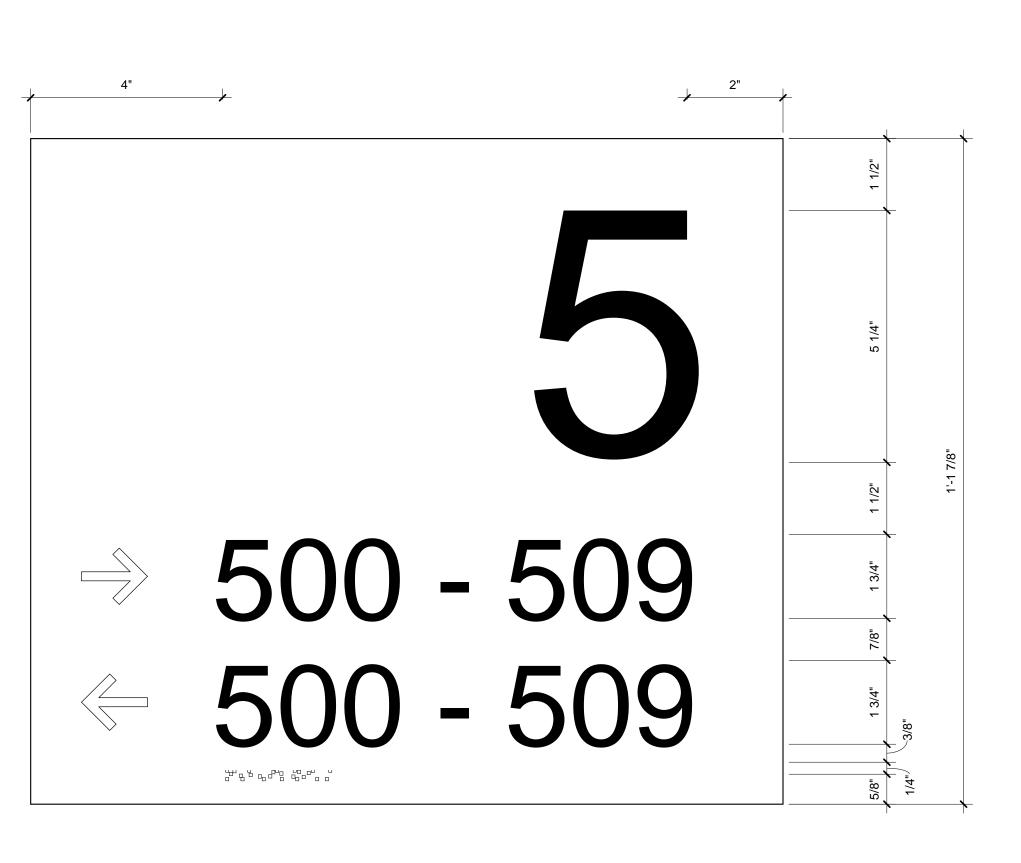
	Xavier University Buenger Hall Renovation
CONSULTANTS ARCHITECT	3848 Ledgewood Drive Cincinnati, Ohio 45207 Project #: 16016
ARCHITECT'S STAMP	glaserworks architecture & urban design
	PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS:
JE REVISION	SHEET REVISION REV # DATE DESCRIPTION DATE DESCRIPTION DESCRIPTION
NOTES	2/16/2017 BIDDING AND PERMIT
LON	
DWG TITLE	FINISH SCHEDULE - BASE BID
SHEET NO.	A551

			ROOM FINISH SCHEDULE - ALTETRNATE NO. 2	ROOM FINISH SCHEDULE - ALTETRNATE NO. 2										
Level	Number	Name	FloorWall FinishWall FinishWall FinishWall FinishFinishBase FinishEastNorthSouthWest	Level Number Name Floor East North South Vall Finish Comments Comments										
LOWER LEVEL FIRST FLOOR		VENDING UNIT		Ceiling Finish ACT-1	Comments	THIRD FLOOR THIRD FLOOR	303 303C	UNIT		Luot			ACT-1	Comments
FIRST FLOOR	102C	BEDROOM 1		ACT-1 ACT-1		THIRD FLOOR	303C 303D 303E	BEDROOM 1 BEDROOM 2					ACT-1 ACT-1	
FIRST FLOOR FIRST FLOOR		BEDROOM 2 BEDROOM 3		ACT-1 ACT-1		THIRD FLOOR THIRD FLOOR	303E 303F	BEDROOM 3 BEDROOM 4					ACT-1 ACT-1	
FIRST FLOOR	103	UNIT		ACT-1		THIRD FLOOR	306 306C	UNIT					ACT-1	
FIRST FLOOR FIRST FLOOR	103D	BEDROOM 1 BEDROOM 2		ACT-1 ACT-1		THIRD FLOOR THIRD FLOOR	306C 306D	BEDROOM 1 BEDROOM 2					ACT-1 ACT-1	
FIRST FLOOR FIRST FLOOR		BEDROOM 3 BEDROOM 4		ACT-1 ACT-1		THIRD FLOOR THIRD FLOOR	307 307C	UNIT BEDROOM 1					ACT-1 ACT-1	
FIRST FLOOR	104	UNIT		ACT-1		THIRD FLOOR	307D	BEDROOM 2					ACT-1	
FIRST FLOOR FIRST FLOOR		BEDROOM 1 BEDROOM 2		ACT-1 ACT-1		THIRD FLOOR THIRD FLOOR	312 312C	UNIT BEDROOM 1					ACT-1 ACT-1	
FIRST FLOOR FIRST FLOOR	105 105C	UNIT BEDROOM 1		ACT-1 ACT-1		THIRD FLOOR THIRD FLOOR	312D 312E	BEDROOM 2 BEDROOM 3					ACT-1 ACT-1	
FIRST FLOOR	105D	BEDROOM 2	Image: second se	ACT-1		THIRD FLOOR	313	UNIT					ACT-1	
FIRST FLOOR FIRST FLOOR	106 106C	UNIT BEDROOM 1		ACT-1 ACT-1		THIRD FLOOR THIRD FLOOR	313C 313D	BEDROOM 1 BEDROOM 2					ACT-1 ACT-1	
FIRST FLOOR FIRST FLOOR	106D 107	BEDROOM 2 UNIT		ACT-1 ACT-1		THIRD FLOOR THIRD FLOOR	313E 313F	BEDROOM 3 BEDROOM 4					ACT-1 ACT-1	
FIRST FLOOR	107C	BEDROOM 1		ACT-1		THIRD FLOOR	316	UNIT					ACT-1	
FIRST FLOOR FIRST FLOOR	108	BEDROOM 2 UNIT		ACT-1 ACT-1		THIRD FLOOR THIRD FLOOR	316C 316D	BEDROOM 1 BEDROOM 2					ACT-1 ACT-1	
FIRST FLOOR FIRST FLOOR		BEDROOM 1 BEDROOM 2		ACT-1 ACT-1		THIRD FLOOR THIRD FLOOR	317 317C	UNIT BEDROOM 1					ACT-1 ACT-1	
FIRST FLOOR	108E	BEDROOM 3		ACT-1		THIRD FLOOR	317D	BEDROOM 2					ACT-1	
FIRST FLOOR FIRST FLOOR		CONFERENCE RA UNIT		ACT-1 / EXISTING GWB ACT-1		FOURTH FLOOR FOURTH FLOOR	401 402	RA UNIT UNIT					ACT-1 ACT-1	
FIRST FLOOR FIRST FLOOR	112	UNIT BEDROOM 1		ACT-1 ACT-1		FOURTH FLOOR FOURTH FLOOR	402C 402D	BEDROOM 1 BEDROOM 2					ACT-1 ACT-1	
FIRST FLOOR	112D	BEDROOM 2		ACT-1		FOURTH FLOOR	403	UNIT					ACT-1	
FIRST FLOOR FIRST FLOOR	113	BEDROOM 3 UNIT		ACT-1 ACT-1		FOURTH FLOOR FOURTH FLOOR	403C 403D	BEDROOM 1 BEDROOM 2					ACT-1 ACT-1	
FIRST FLOOR FIRST FLOOR		BEDROOM 1 BEDROOM 2		ACT-1 ACT-1		FOURTH FLOOR FOURTH FLOOR	407 407C	UNIT BEDROOM 1					ACT-1 ACT-1	
FIRST FLOOR	113E	BEDROOM 3	Image: second se	ACT-1		FOURTH FLOOR	407D	BEDROOM 2					ACT-1	
FIRST FLOOR FIRST FLOOR	113F 114	BEDROOM 4 UNIT		ACT-1 ACT-1										
FIRST FLOOR FIRST FLOOR		BEDROOM 1 BEDROOM 2		ACT-1 ACT-1		_								
FIRST FLOOR	115	UNIT		ACT-1										
FIRST FLOOR FIRST FLOOR		BEDROOM 1 BEDROOM 2		ACT-1 ACT-1										
FIRST FLOOR FIRST FLOOR	116 116C	UNIT BEDROOM 1		ACT-1 ACT-1					ROOM F	INISH SCHE	DULE - ALTE	TRNATE NO. 1		
FIRST FLOOR	116D	BEDROOM 2		ACT-1					Floor	Wall Finish	Wall Finish	Wall Finish Wall Finis	h	
FIRST FLOOR FIRST FLOOR		APARTMENT BEDROOM 1		ACT-1 ACT-1		Level	Number		Finish Base Finish	n East	North	South West	Ceiling Finish	Comments
FIRST FLOOR FIRST FLOOR		BEDROOM 2 KITCHEN		ACT-1 ACT-1		LOWER LEVEL	001	CORRIDOR		CMU / PAINT	CMU / PAINT	CMU / PAINT CMU / PAINT	GWB	
FIRST FLOOR	117F	HALL		ACT-1		LOWER LEVEL FIRST FLOOR	002	ELEVATOR LOBBY LOBBY		GWB/PAINT	CMU / PAINT	CMU / PAINT	ACT-1 ACT-1 / EXISTING	
SECOND FLOOR SECOND FLOOR		UNIT BEDROOM 1		ACT-1 ACT-1		FIRST FLOOR	130	LOUNGE	CPT		GWB / PAINT	GWB / PAINT	GWB	XISTING WOOD BASE, PANELING TO REMAIN
SECOND FLOOR SECOND FLOOR	202D 202E	BEDROOM 2 BEDROOM 3		ACT-1 ACT-1		FIRST FLOOR	138	VESTIBULE					GWB ACT-1	
SECOND FLOOR	203	UNIT		ACT-1		FIRST FLOOR	139	VESTIBULE					ACT-1 / EXISTING	
SECOND FLOOR SECOND FLOOR	203D	BEDROOM 1 BEDROOM 2		ACT-1 ACT-1		THIRD FLOOR	321	CORRIDOR	CPT RB	CMU / PAINT		CMU / PAINT CMU / PAINT		
SECOND FLOOR SECOND FLOOR		BEDROOM 3 BEDROOM 4		ACT-1 ACT-1		THIRD FLOOR FOURTH FLOOR	322 421	ELEVATOR LOBBY CORRIDOR	CPT RB CPT RB	CMU / PAINT CMU / PAINT	CMU / PAINT CMU / PAINT	CMU / PAINT CMU / PAINT CMU / PAINT	ACT-1 / ACT-1 / GWB	CCENT COLOR SOUTH WALL
SECOND FLOOR	204 204C	UNIT BEDROOM 1		ACT-1 ACT-1		FOURTH FLOOR	422	ELEVATOR LOBBY	CPT RB	CMU / PAINT	CMU / PAINT	GWB / PAINT	ACT-1	CCENT COLOR SOUTH WALL
SECOND FLOOR SECOND FLOOR	204C	BEDROOM 2	Image: A state of the state	ACT-1		FOURTH FLOOR	424	LOUNGE	CPT / VCT RB	CIVIU / PAINT	GVVB / PAINT	CMU / PAINT CMU / PAINT	ACT-1	CCENT COLOR NORTH WALL
SECOND FLOOR SECOND FLOOR	205 205C	UNIT BEDROOM 1		ACT-1 ACT-1										
SECOND FLOOR		BEDROOM 2 UNIT		ACT-1 ACT-1		-								
SECOND FLOOR	206C	BEDROOM 1		ACT-1										
SECOND FLOOR SECOND FLOOR	207	BEDROOM 2 UNIT		ACT-1 ACT-1		-								
SECOND FLOOR SECOND FLOOR	207C	BEDROOM 1 BEDROOM 2		ACT-1 ACT-1		_								
SECOND FLOOR	212	UNIT		ACT-1		1								
SECOND FLOOR SECOND FLOOR	212D	BEDROOM 1 BEDROOM 2		ACT-1 ACT-1		_								
SECOND FLOOR SECOND FLOOR		BEDROOM 3 UNIT		ACT-1 ACT-1		_								
SECOND FLOOR	213C	BEDROOM 1		ACT-1		1								
SECOND FLOOR SECOND FLOOR	213E	BEDROOM 2 BEDROOM 3		ACT-1 ACT-1		FINISHES A	BBRE	VIATIONS:						
SECOND FLOOR SECOND FLOOR	213F 214	BEDROOM 4 UNIT		ACT-1 ACT-1			CEILING TILE							
SECOND FLOOR	214C	BEDROOM 1		ACT-1		CPT CARPET GWB GYPSUM WAL	L BOARD							
SECOND FLOOR SECOND FLOOR	215	BEDROOM 2 UNIT		ACT-1 ACT-1		RB RESILIENT BA	SE							
SECOND FLOOR SECOND FLOOR	215C	BEDROOM 3 BEDROOM 4		ACT-1 ACT-1		_								
SECOND FLOOR	216	UNIT		ACT-1										
SECOND FLOOR SECOND FLOOR		BEDROOM 1 BEDROOM 2		ACT-1 ACT-1		FINISH SCI		E NUTES:						
SECOND FLOOR	217	UNIT BEDROOM 1		ACT-1 ACT-1					SSUMED TO BE PART OF THE RO	OOM IN WHICH T	HEY			
	12176					ARE LOCATED AND			EDULED.					
SECOND FLOOR SECOND FLOOR		BEDROOM 2		ACT-1		2. ROOMS NOT LISTE	D IN THE FIN	ISH SCHEDULE ARE ASSUME	D TO RECEIVE NO NEW FINISHES	OTHER THAN T	HOSE			
SECOND FLOOR	302	BEDROOM 2 UNIT BEDROOM 1		ACT-1 ACT-1		REQUIRED FOR MIN	D IN THE FIN NOR PATCHIN CATE NO NE	ISH SCHEDULE ARE ASSUME IG ASSOCIATED WITH NEW M	D TO RECEIVE NO NEW FINISHES					

Xavier University Buenger Hall Renovation

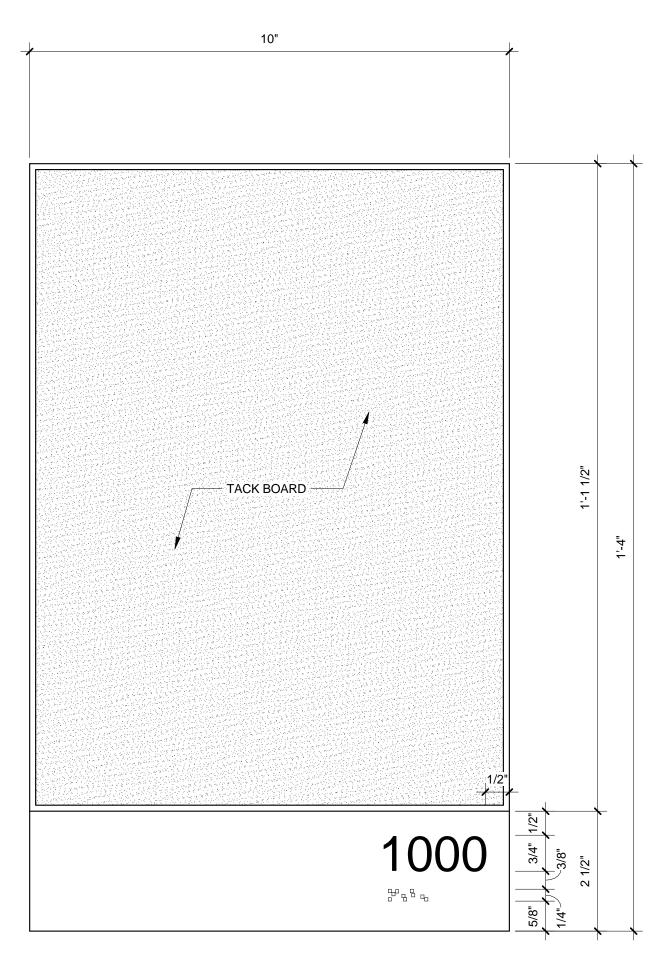
3848 Ledgewood Drive Cincinnati, Ohio 45207 Project #: 16016





<u>DIRECTORY SIGN</u> HALF SIZE

NOTE: EXACT TEXT TO BE DETERMINED.

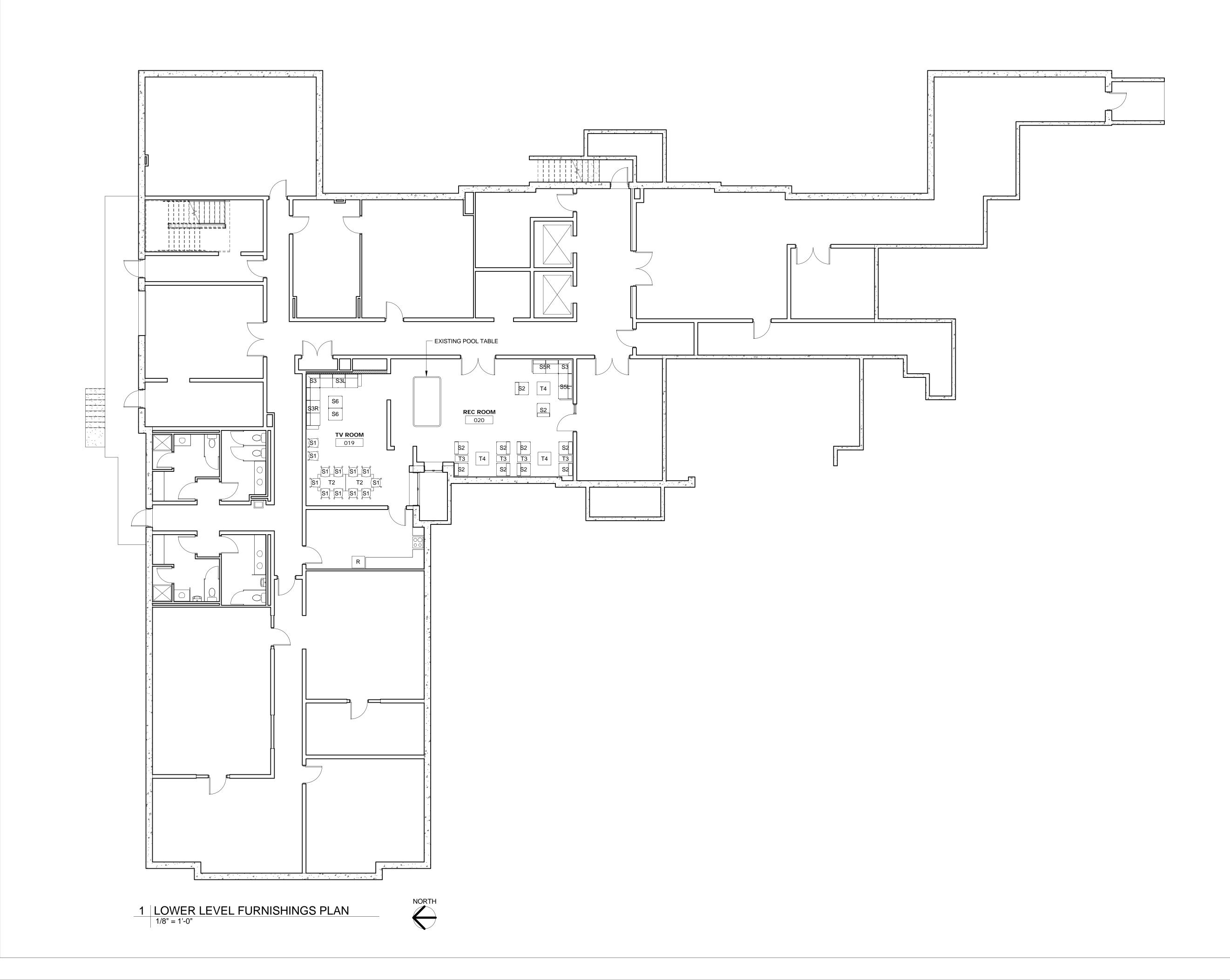


<u>COMBINATION ROOM SIGN / TACK BOARD</u> HALF SIZE

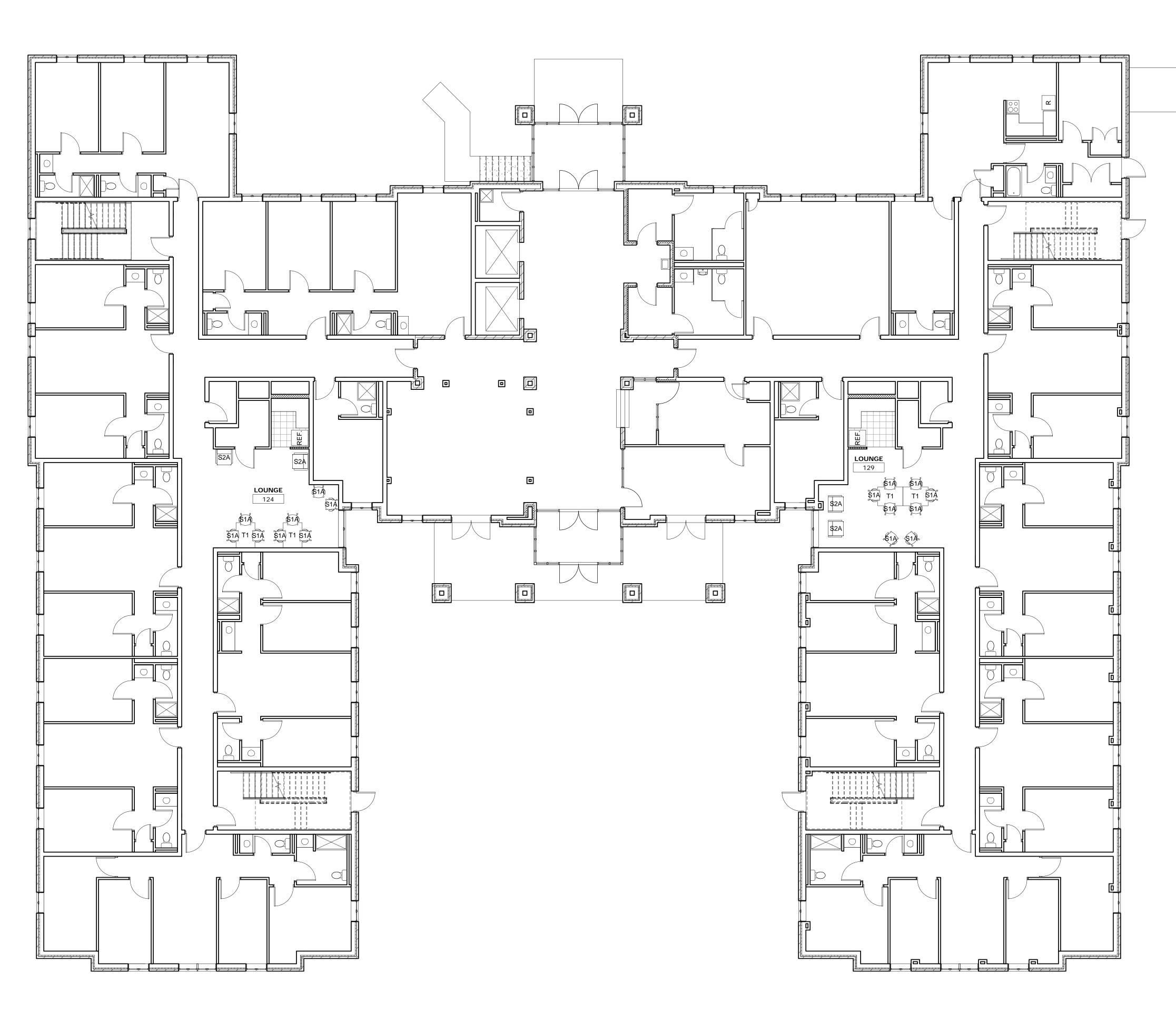
NOTE: EXACT TEXT TO BE DETERMINED

		Xavier University Buenger Hall Renovation
		3848 Ledgewood Drive Cincinnati, Ohio 45207 Project #: 16016
	CONSULTANTS ARCHITECT	304 East Eighth Cincinnati OH 45202-223 I
		v. (513) 665-9555 f. (513) 665-9857 glaserworks architecture & urban design
	ARCHITECT'S STAMP	M.H. MALTINSKY M.H. MALTINSKY M.H. MALTINSKY M.H. MALTINSKY M.H. MALTINSKY, LICENSE #10106 EXPIRATION DATE 12/31/2017
	AF	PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS:
		Motz Engineering 300 West 4th Street, Suite 300 Cincinnati, OH 45202-2666 T: 513.621.5400 F: 513.621.5407 MEP Design Security Sustainable Design Commissioning Design/Build
		STRUCTURAL ENGINEERS: Schaefer 10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 T: 513.542.3300 F: 513.542.5540
	REVISION	SHEET REVISION REV # DATE DESCRIPTION
8" 1/2" CONFERENCE 600 ^{β"} θ ^β		
ROOM SIGN	ISSUE	DATE DESCRIPTION 2/16/2017 BIDDING AND PERMIT
HALF SIZE	NOTES	
NOTE: EXACT TEXT TO BE DETERMINED		SIGNAGE
		SIGNAGE
	SHEET NO.	A700

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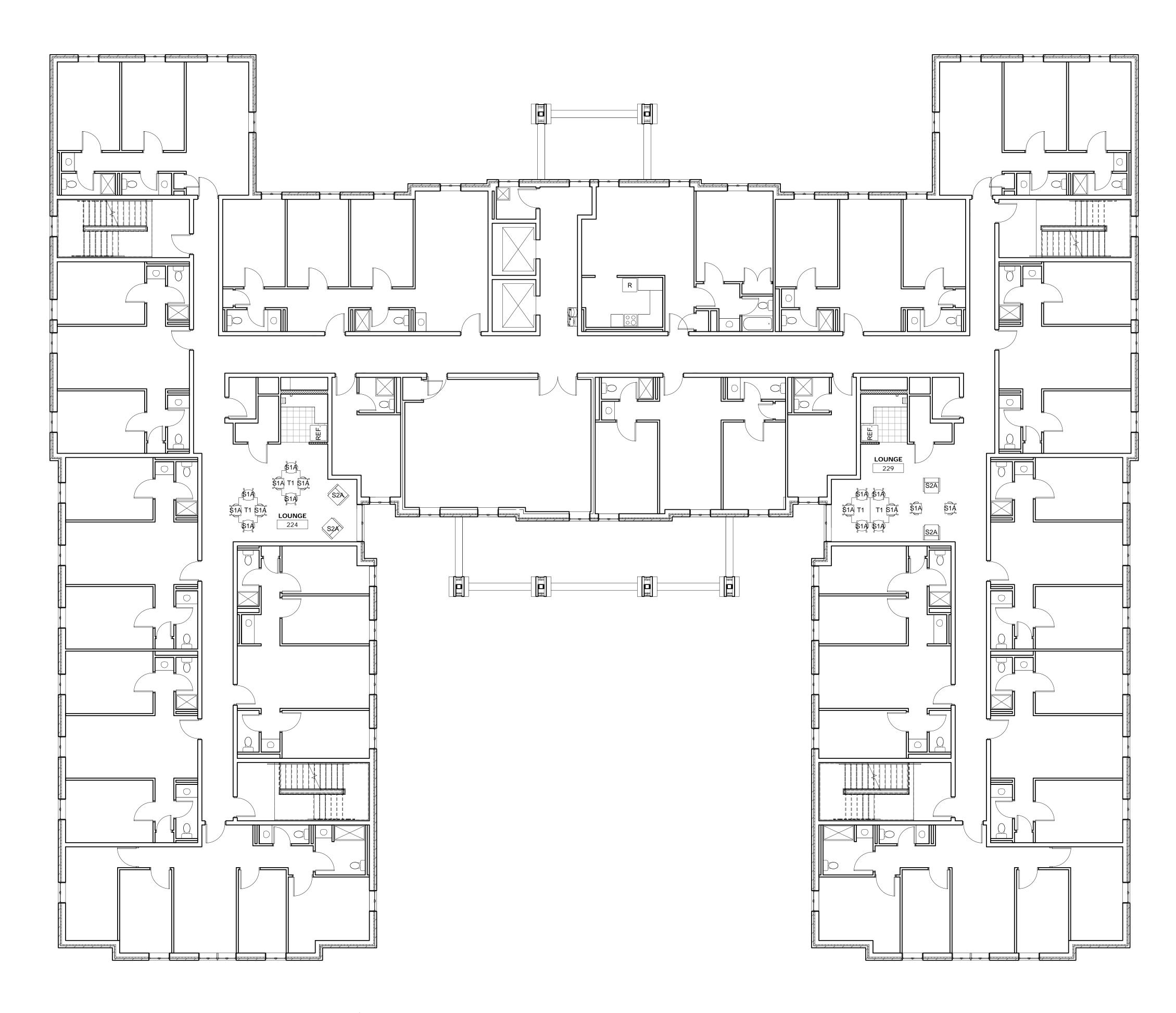
	Xavier University Buenger Hall Renovation
	3848 Ledgewood Drive Cincinnati, Ohio 45207
CONSULTANTS ARCHITECT	Project #: 16016
CONS	Cincinnati OH 45202-2231 v. (513) 665-9555 f. (513) 665-9857 glaserworks architecture & urban design
ARCHITECT'S STAMP	M.H. MALTINSKY M.H. MALTINSKY M.H. MALTINSKY M.H. MALTINSKY, LICENSE #10106 EXPIRATION DATE 12/31/2017
	PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS:
	Motz Engineering300 West 4th Street, Suite 300Gincinnati, OH 45202-2666T: 513.621.5400F: 513.621.5407MEP Design Security Sustainable Design Commissioning Security Design/Build
	STRUCTURAL ENGINEERS: Schaefer 10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 T: 513.542.3300 F: 513.542.5540
REVISION	SHEET REVISION REV # DATE DESCRIPTION
SSUE	DATE DESCRIPTION
 	2/16/2017 BIDDING AND PERMIT
NOTES	
DWG TITLE	LOWER LEVEL FURNISHINGS PLAN
SHEET NO.	A900



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



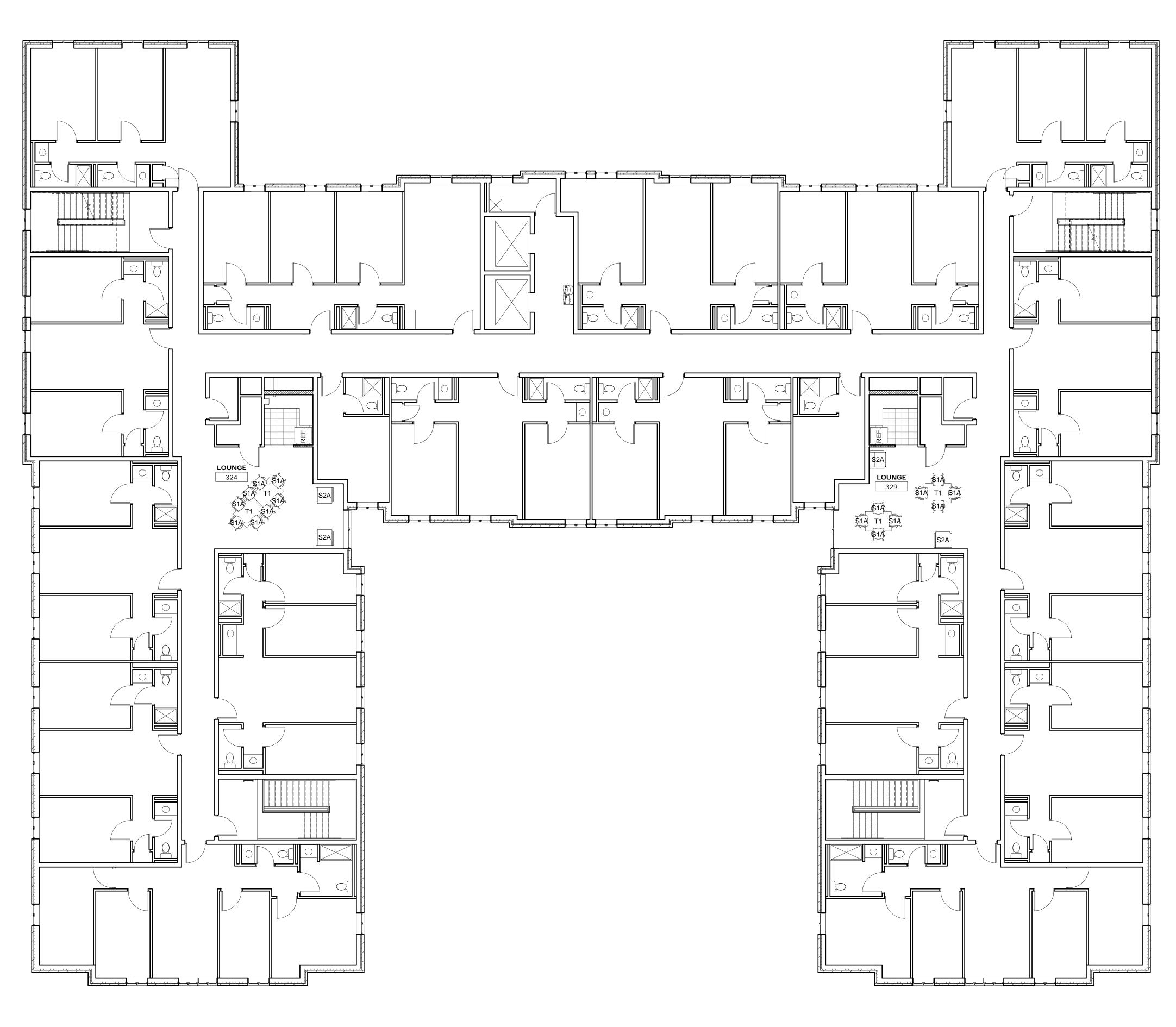








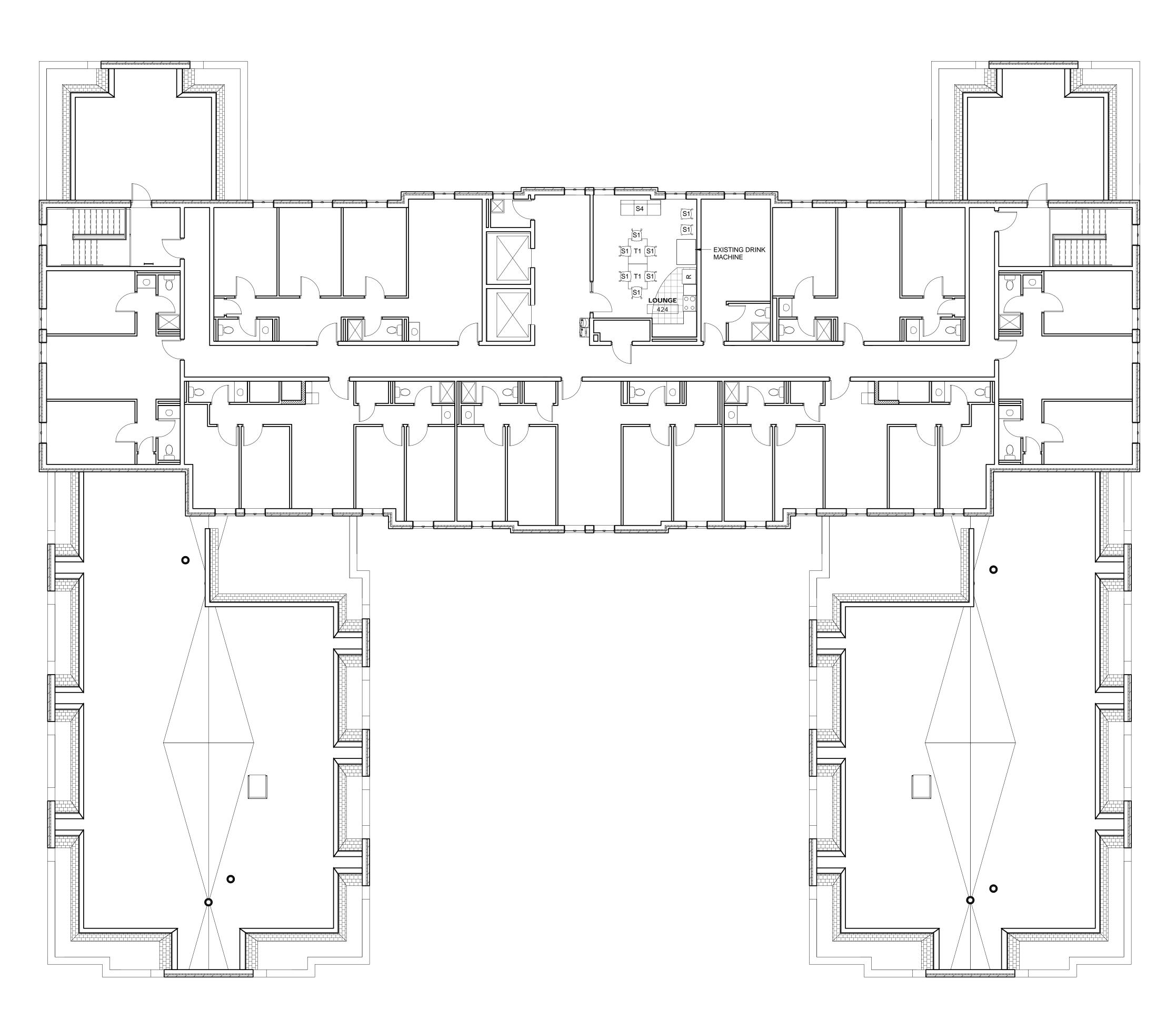
	Xavier University Buenger Hall Renovation
	3848 Ledgewood Drive Cincinnati, Ohio 45207
CONSULTANTS ARCHITECT	Project #: 16016
CONSULT	304 East Eighth Cincinnati OH 45202-223 I v. (513) 665-9555 f. (513) 665-9857 glaserworks
	architecture & urban design
ARCHITECT'S STAMP	M.H. MALTINSKY <i>RED ARCH</i> M.H. MALTINSKY M.H. MALTINSKY <i>RED ARCH</i> <i>RED ARCH <i>RED ARCH</i> <i>RED ARCH <i>RED ARCH <i>RED A</i></i></i></i>
×	PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS:
	Motz Engineering 300 West 4th Street, Suite 300 Cincinnati, OH 45202-2666 T: 513.621.5400 F: 513.621.5407 MEP Design Security Sustainable Design Commissioning Security Design/Build
	STRUCTURAL ENGINEERS:
	Schaeter 10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 T: 513.542.3300 F: 513.542.5540
REVISION	SHEET REVISION REV # DATE DESCRIPTION
ISSUE	DATE DESCRIPTION 2/16/2017 BIDDING AND PERMIT
NOTES	
DWG TITLE	SECOND FLOOR FURNISHINGS PLAN
SHEET NO.	A902



1 THIRD FLOOR FURNISHINGS PLAN 1/8" = 1'-0"



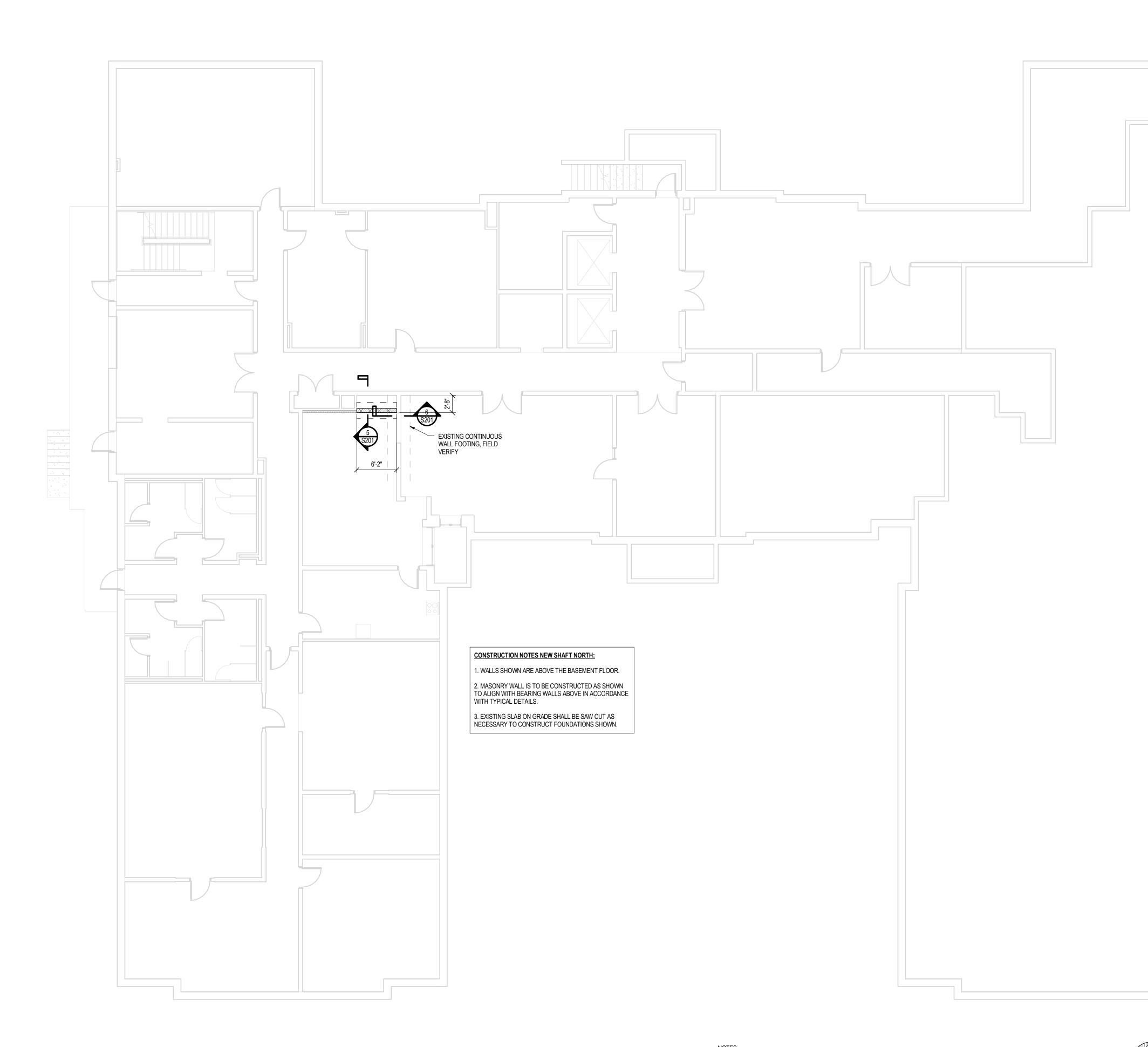








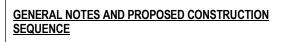




<u>NOTES:</u>
 CONTRACTOR TO FIELD VERIFY LOCATIONS OF ALL EXISTING WALLS.
 ALL MASONRY WALLS SHALL HAVE #5 VERT REINFORCING IN GROUTED END CELLS AND @ 32"oc (MAX).
 T/EXISTING SLAB EL ±90'-0" AT BASEMENT FLOOR (LOWER LEVEL).

FOUNDATION PLAN 1/8" = 1'-0"

NORTH



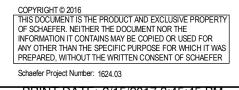
1. ALL FIELD CONDITIONS AT EACH SHAFT TO BE FIELD VERIFIED PRIOR TO COMMENCEMENT OF FIELD ACTIVITIES. PARTIAL DEMOLITION OF NON-BEARING EXISTING MASONRY SHAFT WALL MAY BE NECESSARY TO VERIFY PRECAST PLANK BEARING CONDITIONS.

2. MASONRY BEARING WALLS OR TEMPORARY SHORING IS NECESSARY PRIOR TO CUTTING OPENINGS IN THE EXISTING FLOOR.

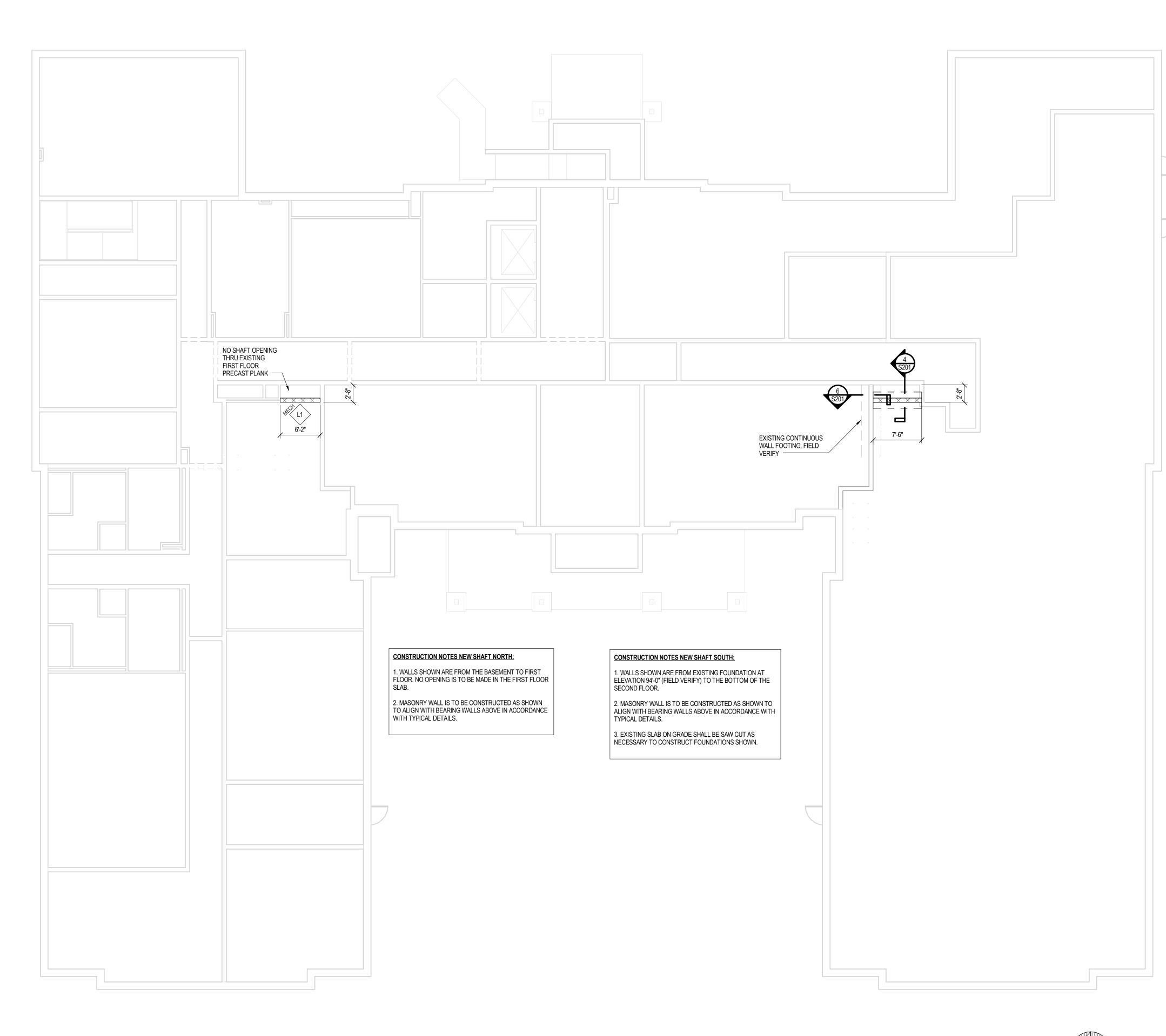
3. EXISTING FLOOR STRUCTURE IS NOT ADEQUATE TO SUPPORT THE WEIGHT OF MASONRY BEARING WALLS WITH OUT ADDITIONAL SUPPORT. IT IS THEREFORE RECOMMENDED THAT MASONRY BEARING WALLS BE CONSTRUCTED BEGINNING AT THE GROUND LEVEL AND COMPLETED PRIOR TO BEGINNING CONSTRUCTION ON THE LEVEL ABOVE.

4. TEMPORARY OPENINGS UP TO 32" WIDE TO FACILITATE CONSTRUCTION ACTIVITES USING LINTEL L1 MAY BE PROVIDED IN THE MASONRY WALLS.

	Project #:
CONSULTANTS ARCHITECT	304 East Eighth Cincinnati OH 4 5 2 0 2 - 2 2 3 I v. (513) 665-9555 f. (513) 665-9857
ARCHITECT'S STAMP	architecture & urban design architecture & urban design OF ROBERT
	PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS:
	Motz Engineering300 West 4th Street, Suite 300Cincinnati, OH 45202-2666T: 513.621.5400F: 513.621.5407MEP Design Security Commissioning Security Design/Build
	STRUCTURAL ENGINEERS: Schaefer 10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 T: 513.542.3300 F: 513.542.5540
REVISION	SHEET REVISION REV # DATE DESCRIPTION
ISSUE	DATE DESCRIPTION
NOTES	2/16/2017 BIDDING AND PERMIT
DWG TITLE	FOUNDATION
SHEET NO.	S100



PRINT DATE: 2/15/2017 3:45:45 PM



- NOTES:
 CONTRACTOR TO FIELD VERIFY LOCATIONS OF ALL EXISTING WALLS.
 ALL MASONRY WALLS SHALL HAVE #5 VERT REINFORCING IN GROUTED END CELLS AND @ 32"oc (MAX).
 SEE SHEET S201 FOR TYPICAL CMU WALL DETAIL AT NEW SHAFT OPENING IN EXISTING PRECAST PLANK.
 T/EXISTING PRECAST PLANK EL ±100'-0" AT FIRST FLOOR +110'-0" AT SECOND FLOOR
- - ±110'-0" AT SECOND FLOOR ±119'-8" AT THIRD FLOOR ±129'-4" AT FOURTH FLOOR ±139'-0" AT ROOF LEVEL





GENERAL NOTES AND PROPOSED CONSTRUCTION SEQUENCE

1. ALL FIELD CONDITIONS AT EACH SHAFT TO BE FIELD VERIFIED PRIOR TO COMMENCEMENT OF FIELD ACTIVITIES. PARTIAL DEMOLITION OF NON-BEARING EXISTING MASONRY SHAFT WALL MAY BE NECESSARY TO VERIFY PRECAST DI ANIC DE ADING CONDITIONS PLANK BEARING CONDITIONS.

2. MASONRY BEARING WALLS OR TEMPORARY SHORING IS NECESSARY PRIOR TO CUTTING OPENINGS IN THE EXISTING FLOOR.

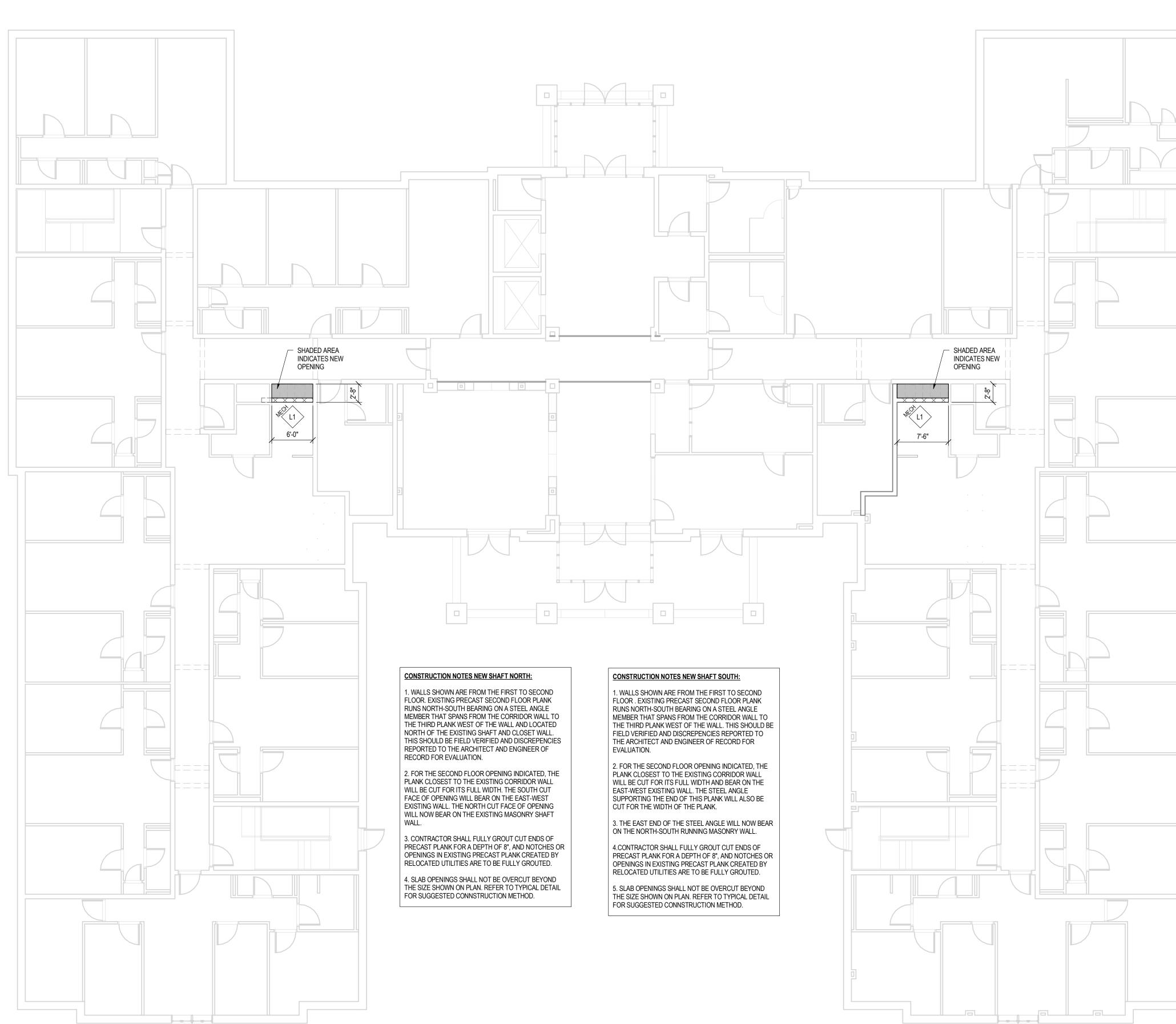
3. EXISTING FLOOR STRUCTURE IS NOT ADEQUATE TO SUPPORT THE WEIGHT OF MASONRY BEARING WALLS WITH OUT ADDITIONAL SUPPORT. IT IS THEREFORE RECOMMENDED THAT MASONRY BEARING WALLS BE CONSTRUCTED BEGINNING AT THE GROUND LEVEL AND COMPLETED PRIOR TO BEGINNING CONSTRUCTION ON THE LEVEL ABOVE.

4. TEMPORARY OPENINGS UP TO 32" WIDE TO FACILITATE CONSTRUCTION ACTIVITES USING LINTEL L1 MAY BE PROVIDED IN THE MASONRY WALLS.

	Project #:
CONSULTANTS ARCHITECT	304 East Eighth Cincinnati OH 45202-223 I v. (513) 665-9555 f. (513) 665-9857
ARCHITECT'S STAMP	architecture & urban design architecture & urban design OF ROBERT ROBERT ROBERT ROBERT ROBERS E-59326 A HOMERS E-59326 A HOMERS A H
	PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS:
	Motz Engineering 300 West 4th Street, Suite 300 Cincinnati, OH 45202-2666 T: 513.621.5400 F: 513.621.5407 MEP Design Security Sustainable Design Commissioning Security Design/Build
	structural engineers: Schaefer 10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 T: 513.542.3300 F: 513.542.5540
REVISION	SHEET REVISION REV # DATE DESCRIPTION
ISSUE	DATE DESCRIPTION 2/16/2017 BIDDING AND PERMIT
NOTES	
DWG TITLE	FIRST FLOOR
SHEET NO.	S101

Schaefer Project Number: 1624.03 PRINT DATE: 2/15/2017 3:45:51 PM

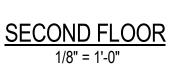
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SECOND FLOOR 1/8" = 1'-0"

- NOTES: 1. CONTRACTOR TO FIELD VERIFY LOCATIONS OF ALL EXISTING WALLS. 2. ALL MASONRY WALLS SHALL HAVE #5 VERT REINFORCING IN GROUTED END CELLS AND @ 32"oc (MAX).
- SEE SHEET S201 FOR TYPICAL CMU WALL DETAIL AT NEW SHAFT OPENING IN EXISTING PRECAST PLANK.
- 4. T/EXISTING PRECAST PLANK EL ±100'-0" AT FIRST FLOOR

±110'-0" AT SECOND FLOOR ±119'-8" AT THIRD FLOOR ±129'-4" AT FOURTH FLOOR ±139'-0" AT ROOF LEVEL



GENERAL NOTES AND PROPOSED CONSTRUCTION SEQUENCE

1. ALL FIELD CONDITIONS AT EACH SHAFT TO BE FIELD VERIFIED PRIOR TO COMMENCEMENT OF FIELD ACTIVITIES. PARTIAL DEMOLITION OF NON-BEARING EXISTING MASONRY SHAFT WALL MAY BE NECESSARY TO VERIFY PRECAST PLANK BEARING CONDITIONS.

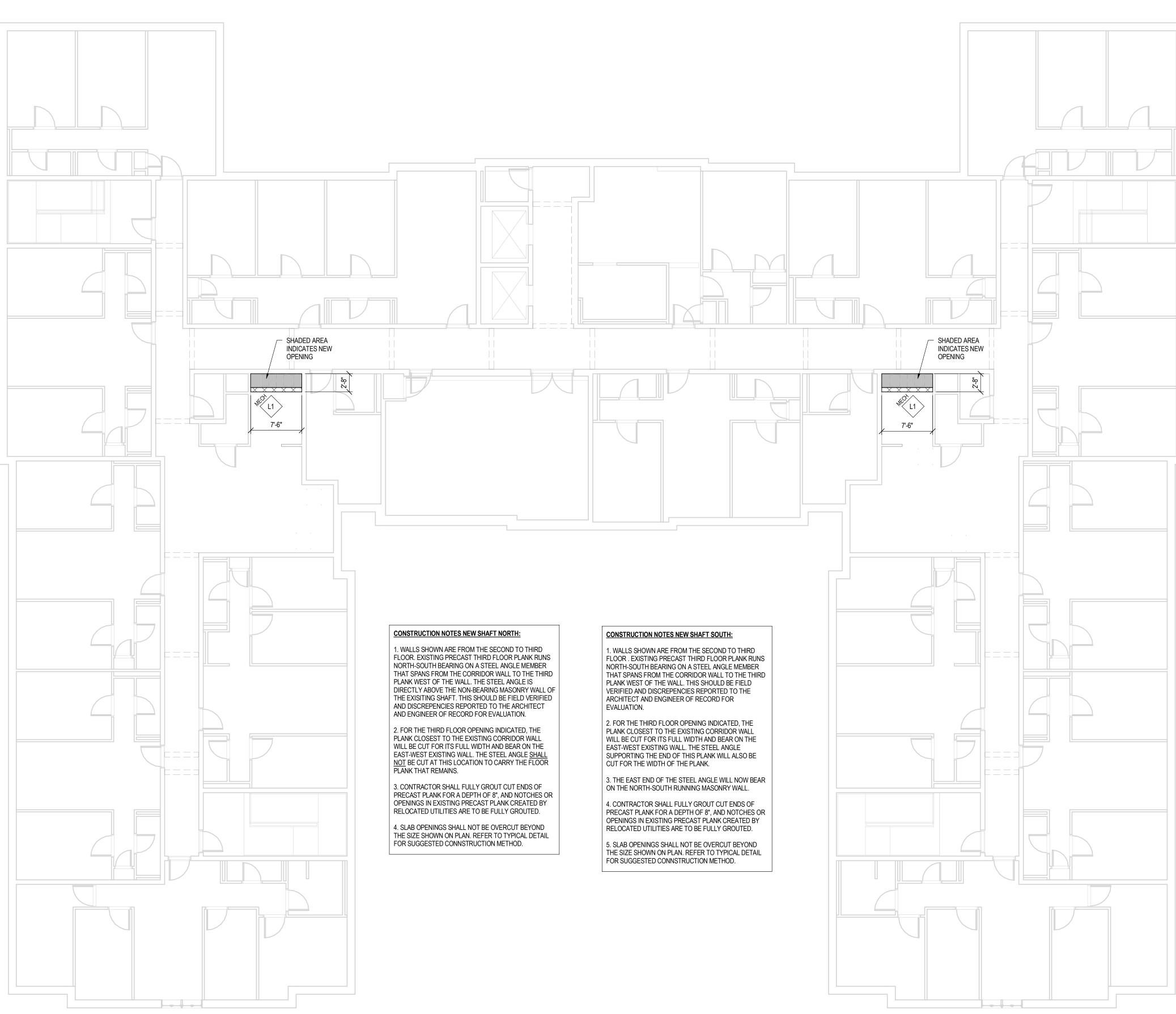
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4. TEMPORARY OPENINGS UP TO 32" WIDE TO FACILITATE CONSTRUCTION ACTIVITES USING LINTEL L1 MAY BE PROVIDED IN THE MASONRY WALLS.

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CONSULTANTS ARCHITECT	304 East Eighth Cincinnati OH 4 5 2 0 2 - 2 2 3 I v. (513) 665-9555
ARCHITECT'S STAMP	f. (513) 665-9857 glaserworks architecture & urban design
	PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS:
	AdditionMotz Engineering300 West 4th Street, Suite 300300 West 4th Street, Suite 300Cincinnati, OH 45202-2666T: 513.621.5400F: 513.621.5407MEP Design Security Sustainable Design Commissioning Design/Build
	STRUCTURAL ENGINEERS: Schaefer 10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 T: 513.542.3300 F: 513.542.5540
REVISION	SHEET REVISION REV # DATE DESCRIPTION
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DWG TITLE	SECOND FLOOR
SHEET NO.	S102

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- NOTES: 1. CONTRACTOR TO FIELD VERIFY LOCATIONS OF ALL EXISTING WALLS. 2. ALL MASONRY WALLS SHALL HAVE #5 VERT REINFORCING IN GROUTED
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- 4. T/EXISTING PRECAST PLANK EL ±100'-0" AT FIRST FLOOR ±110'-0" AT SECOND FLOOR
 - ±119'-8" AT THIRD FLOOR ±129'-4" AT FOURTH FLOOR ±139'-0" AT ROOF LEVEL



THIRD FLOOR

1/8" = 1'-0"

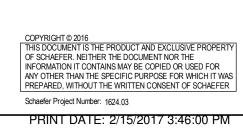
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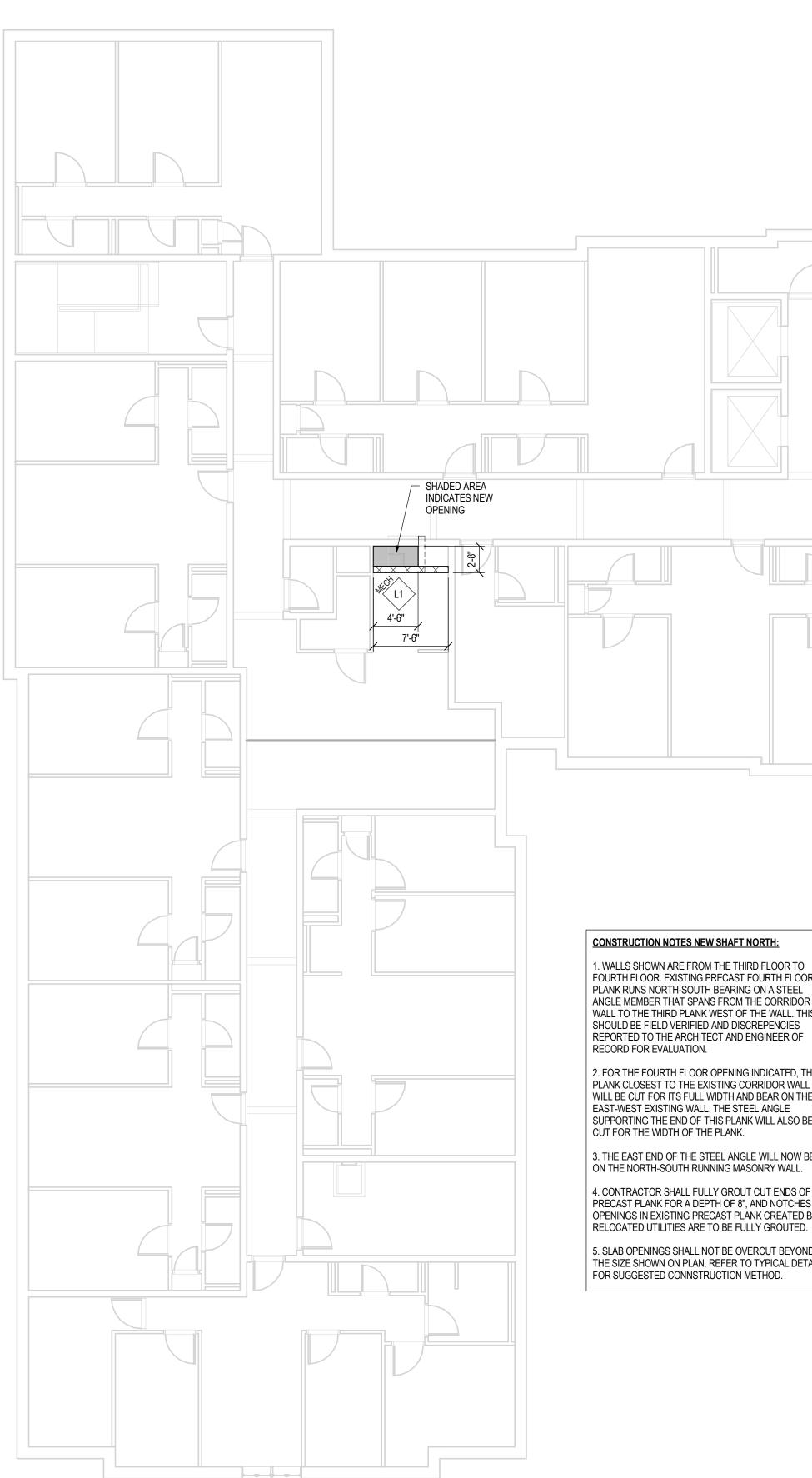
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4. TEMPORARY OPENINGS UP TO 32" WIDE TO FACILITATE CONSTRUCTION ACTIVITES USING LINTEL L1 MAY BE PROVIDED IN THE MASONRY WALLS.



	Project #:
CONSULTANTS ARCHITECT	304 East Eighth Cincinnati OH 4 5 2 0 2 - 2 2 3 I v. (513) 665-9555 f. (513) 665-9857 glaserworks
ARCHITECT'S STAMP	architecture & urban design
	PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS:
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NOTES	
DWG TITLE	THIRD FLOOR
SHEET NO.	S103





1. WALLS SHOWN ARE FROM THE THIRD FLOOR TO FOURTH FLOOR. EXISTING PRECAST FOURTH FLOOR PLANK RUNS NORTH-SOUTH BEARING ON A STEEL ANGLE MEMBER THAT SPANS FROM THE CORRIDOR WALL TO THE THIRD PLANK WEST OF THE WALL. THIS SHOULD BE FIELD VERIFIED AND DISCREPENCIES REPORTED TO THE ARCHITECT AND ENGINEER OF

2. FOR THE FOURTH FLOOR OPENING INDICATED, THE PLANK CLOSEST TO THE EXISTING CORRIDOR WALL WILL BE CUT FOR ITS FULL WIDTH AND BEAR ON THE EAST-WEST EXISTING WALL. THE STEEL ANGLE SUPPORTING THE END OF THIS PLANK WILL ALSO BE

3. THE EAST END OF THE STEEL ANGLE WILL NOW BEAR

4. CONTRACTOR SHALL FULLY GROUT CUT ENDS OF PRECAST PLANK FOR A DEPTH OF 8", AND NOTCHES OR OPENINGS IN EXISTING PRECAST PLANK CREATED BY RELOCATED UTILITIES ARE TO BE FULLY GROUTED.

5. SLAB OPENINGS SHALL NOT BE OVERCUT BEYOND THE SIZE SHOWN ON PLAN. REFER TO TYPICAL DETAIL

CONSTRUCTION NOTES NEW SHAFT SOUTH:

1. WALLS SHOWN ARE FROM THE THIRD FLOOR TO FOURTH FLOOR. EXISTING PRECAST FOURTH FLOOR PLANK RUNS NORTH-SOUTH BEARING ON A STEEL ANGLE MEMBER THAT SPANS FROM THE CORRIDOR WALL TO THE THIRD PLANK WEST OF THE WALL. THIS SHOULD BE FIELD VERIFIED AND DISCREPENCIES REPORTED TO THE ARCHITECT AND ENGINEER OF RECORD FOR EVALUATION.

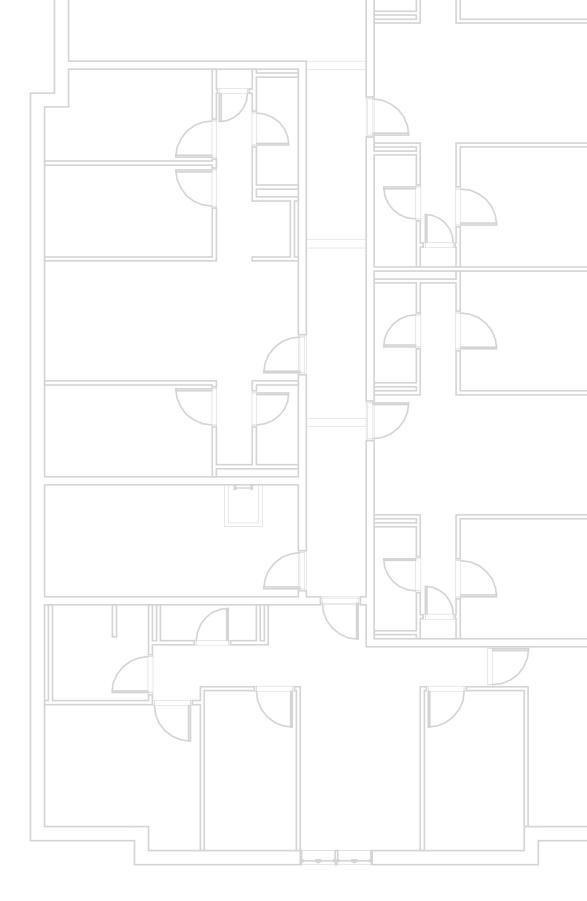
2. FOR THE FOURTH FLOOR OPENING INDICATED, THE PLANK CLOSEST TO THE EXISTING CORRIDOR WALL WILL BE CUT FOR ITS FULL WIDTH AND BEAR ON THE EAST-WEST EXISTING WALL. THE STEEL ANGLE SUPPORTING THE END OF THIS PLANK WILL ALSO BE CUT FOR THE WIDTH OF THE PLANK.

3. THE EAST END OF THE STEEL ANGLE WILL NOW BEAR ON THE NORTH-SOUTH RUNNING MASONRY WALL.

4. CONTRACTOR SHALL FULLY GROUT CUT ENDS OF PRECAST PLANK FOR A DEPTH OF 8", AND NOTCHES OR OPENINGS IN EXISTING PRECAST PLANK CREATED BY RELOCATED UTILITIES ARE TO BE FULLY GROUTED.

5. SLAB OPENINGS SHALL NOT BE OVERCUT BEYOND THE SIZE SHOWN ON PLAN. REFER TO TYPICAL DETAIL FOR SUGGESTED CONNSTRUCTION METHOD.

NOTES:



FOURTH FLOOP 1/8" = 1'-0"

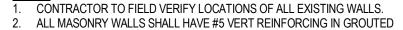
SHADED AREA
 INDICATES NEW

OPENING

N L1

_4'-4 3/8"

7'-6"



- END CELLS AND @ 32"oc (MAX).
 SEE SHEET S201 FOR TYPICAL CMU WALL DETAIL AT NEW SHAFT OPENING IN EXISTING PRECAST PLANK.
- 4. T/EXISTING PRECAST PLANK EL ±100'-0" AT FIRST FLOOR ±110'-0" AT SECOND FLOOR
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GENERAL NOTES AND PROPOSED CONSTRUCTION **SEQUENCE**

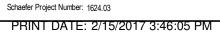
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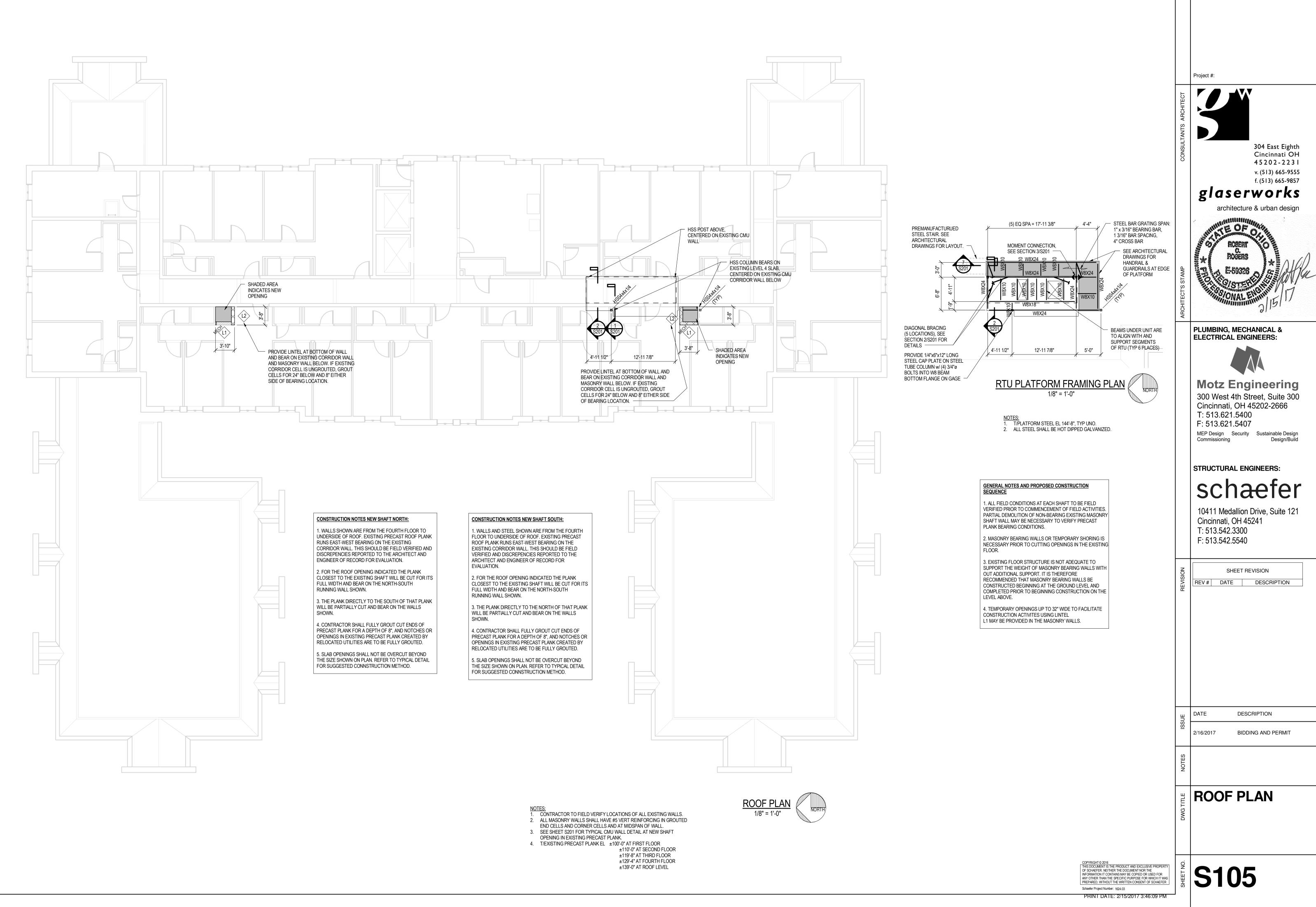
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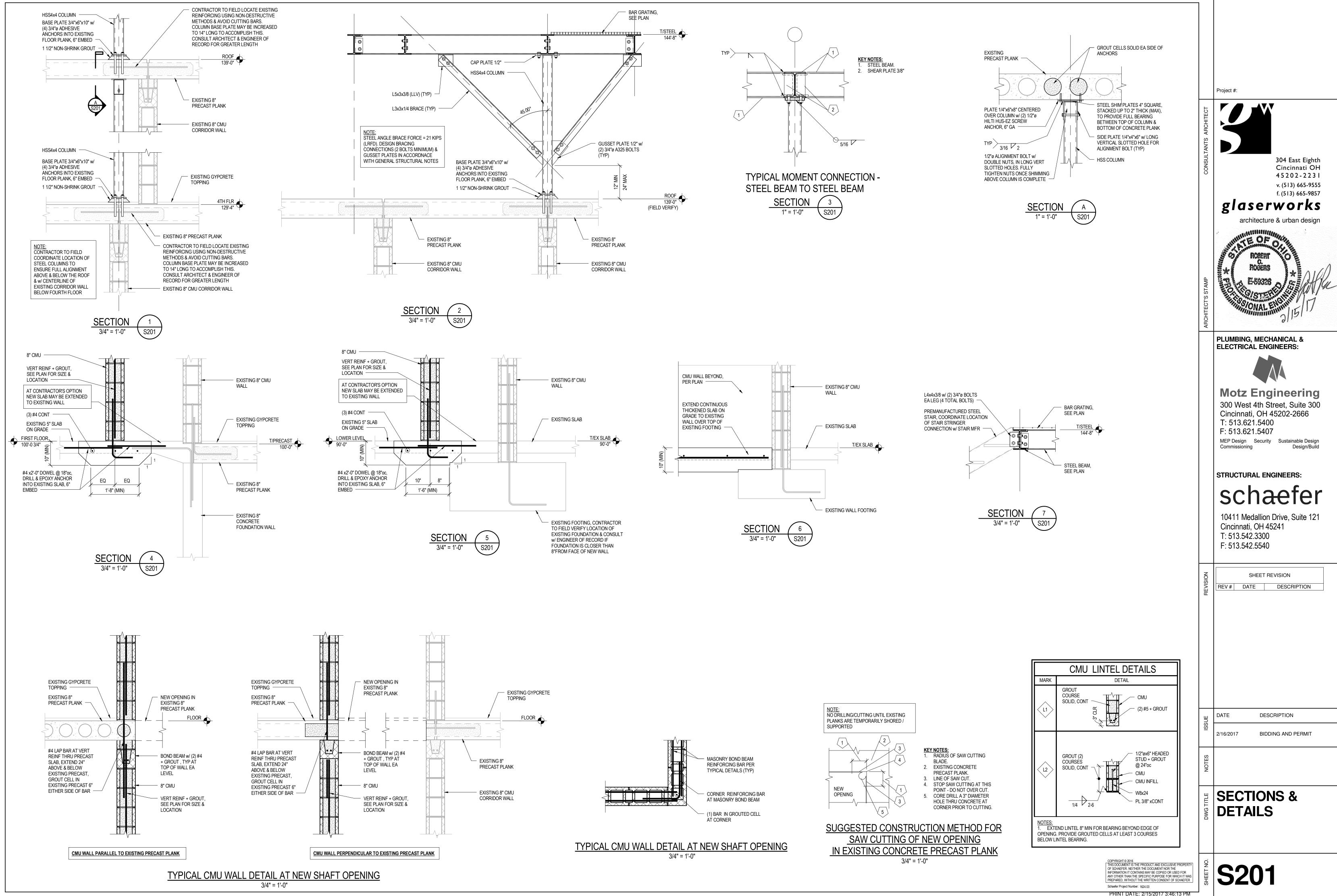
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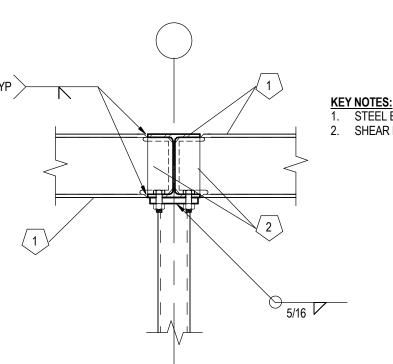
		Project #:
PPOSED CONSTRUCTION TEACH SHAFT TO BE FIELD ENCEMENT OF FIELD ACTIVITIES. ON-BEARING EXISTING MASONRY	CONSULTANTS ARCHITECT	304 East Eighth Cincinnati OH 4 5 2 0 2 - 2 2 3 I v. (513) 665-9857 glaserworks architecture & urban design
SSARY TO VERIFY PRECAST NS. LS OR TEMPORARY SHORING IS ITING OPENINGS IN THE EXISTING TURE IS NOT ADEQUATE TO MASONRY BEARING WALLS WITH T. IT IS THEREFORE SONRY BEARING WALLS BE SAT THE GROUND LEVEL AND GINNING CONSTRUCTION ON THE UP TO 32" WIDE TO FACILITATE S USING LINTEL	ARCHITECT'S STAMP	ROBERT OF ROBERT OF ROBERS ROB
IE MASONRY WALLS.		PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS:
	REVISION	SHEET REVISION REV # DATE DESCRIPTION
	SSUE	DATE DESCRIPTION
	<u> </u>	2/16/2017 BIDDING AND PERMIT
	NOTES	
	DWG TITLE	FOURTH FLOOR
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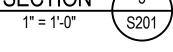












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GOVERNING CODE							
OHIO BUILDING CODE – 2011 (REFERENCES IBC 2009 & ASCE-7 2005).							
	N LOAD	ING PER RECORD DRAWINGS PROVIDED BY OWNER:	7.	LAI A.			
1.	ROOF			Α.			
	Α.	MINIMUM COMBINATION OF WIND LOAD, LIVE LOAD, RAIN LOAD, OR SNOW LOAD (Pf) 20 PSF*		В.			
	В. С.	MAX DRIFT LOAD62PSFPRECAST CONCRETE PLANK57PSF**ROOF MEMBRANE & INSULATION14PSF	8.	RE			
	D.	MPE HANGING LOADS 7 PSF TOTAL ROOF DEAD LOAD 78 PSF	9.	AT BA			
	IMPOR Ct = 1. OVERF	UND SNOW Pg = 20 PSF MODIFIED BY APPLICABLE DRIFT COEFFICIENTS. SNOW LOAD RTANCE FACTOR I = 1.0. SNOW EXPOSURE FACTOR Ce = 1.0. SNOW LOAD THERMAL FACTOR 0. FLAT ROOF SNOW LOAD $P_f = 20$ PSF. SECONDARY ROOF DRAINAGE VIA SCUPPERS OR FLOW DRAINS SHALL BE PROVIDED IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODE SCE 7. SECONDARY ROOF DRAINAGE SHALL BE DESIGNED BY OTHERS TO LIMIT THE DEPTH ATER TO 4" MAXIMUM ABOVE THE ROOF MEMBRANE AT THE PRIMARY ROOF DRAIN.)	10.	INT DIA SE VA			
2.	FLOOF	R LOAD:	11.	CO UN			
	A. B.	PRECAST CONCRETE PLANK DECK 57 PSF GYPCRETE TOPPING 9 PSF	DDF	AC			
	C. D. TOTAI	MPE HANGING LOADS8 PSFPARTITION LOAD45 PSF. FLOOR DEAD LOAD ON WALLS AND FNDS119 PSF	<u>PREC</u> 1.	CE			
FLOOF				TH			
	A. B.	CORRIDOR LIVE LOAD80PSF***PUBLIC AREAS100PSF***DEVIDENTIAL OF ACED100PSF***		SE			
	C. (*** LIV	RESIDENTIAL SPACES 40 PSF*** 'E LOAD REDUCTION USED WHERE APPLICABLE)	2.	MA MC ST			
CONST	TRUCTIO	ON AND SAFETY	3.	AT			
1.		RACTOR SHALL BRACE ENTIRE STRUCTURE AS REQUIRED TO MAINTAIN STABILITY UNTIL LETE AND FUNCTIONING AS THE DESIGNED UNIT.	4.	EX			
2.		EER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES	-	FIN			
3.		OCEDURES OF CONSTRUCTION SELECTED BY CONTRACTOR.	5. MEC ł	GR Hanic			
5.	THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND IS NOT LIMITED TO NORMAL WORKING HOURS. WHEN ON SITE, THE ENGINEER IS RESPONSIBLE FOR HIS/HER OWN SAFETY BUT HAS NO RESPONSIBILITY FOR THE SAFETY OF OTHER PERSONNEL OR SAFETY CONDITIONS AT THE SITE.						
4.	PRIOR TO COMMENCEMENT OF STEEL ERECTION, CONTRACTOR MUST PROVIDE THE STEEL ERECTOR WRITTEN NOTIFICATION THAT THE CONCRETE IN THE FOOTINGS, PIERS AND WALLS OR THE MORTAR IN THE MASONRY PIERS AND WALLS HAS ATTAINED EITHER 75 PERCENT OF THE INTENDED MINIMUM COMPRESSIVE DESIGN STRENGTH OR SUFFICIENT STRENGTH TO SUPPORT THE LOADS IMPOSED DURING STEEL ERECTION						
5.	ANCHOR RODS/BOLTS AND FOUNDATION DOWELS SHALL NOT BE REPAIRED, REPLACED OR FIELD-MODIFIED WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.						
6.	CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. SHOULD ANY DISCREPANCY BE FOUND, CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER IMMEDIATELY OF THE CONDITION.						
7. CONTRACTOR SHALL BRACE ENTIRE STRUCTURE AS REQUIRED DURING DEMOLITION AND CONSTRUCTION TO MAINTAIN STABILITY UNTIL THE STRUCTURE IS COMPLETE AND FUNCTIONING AS THE DESIGNED UNIT.							
<u>LATER</u>	AL LOA	AD RESISTING SYSTEM		RE CO CO			
		STRUCTURE IS A MASONRY LOAD BEARING SHEAR WALL STURCTURE.		co			
		S IN THE SCOPE OF THIS PROJECT ARE PART OF OR MODIFYING THE BUILDING'S LATERAL ING SYSTEMS.		Α.			
<u>Founi</u>	DATION	<u>S</u>	2.	AN INS			
1. FOUNDATION DESIGN IS BASED ON THE CRITERIA STATED IN THE GENERAL STRUCTURAL NOTES OF THE RECORD DRAWINGS PROVIDED BY THE OWNER.							
	 A. ALL FOOTINGS SHALL BEAR ON LEVEL (WITHIN 1 IN 12) UNDISTURBED SOIL OR APPROVED ENGINEERED FILL FOUNDATIONS HAVE BEEN DESIGNED FOR A MAXIMUM SOIL BEARING PRESSURE OF 3500 PSF BELOW STRIP FOOTINGS. 						
2.	CONTRACTOR SHALL CONTACT UTILITY COMPANIES FOR LOCATING UNDERGROUND SERVICES AND IS RESPONSIBLE FOR THEIR PROTECTION AND SUPPORT.						
	A.	FILL BELOW FLOOR SLABS:	4.	TE TE			
		1. PROVIDE 6" OF COMPACTED GRANULAR MATERIAL BELOW FLOOR SLAB.		TE			
		2. TOP 12" OF SUBBASE BELOW INTERIOR FLOOR SLAB TO BE PROOF ROLLED TO 98% STANDARD PROCTOR DENSITY PRIOR TO PLACEMENT OF SLAB.	5.	FO LO			
<u>CONCI</u>	RETE			DR WI			
1. CONCRETE WORK AND TESTING, AS PERFORMED BY "QUALIFIED FIELD TESTING TECHNICIANS" AND "QUALIFIED LABORATORY TECHNICIANS", SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301-10, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", EXCEPT AS MODIFIED BY THE SUPPLEMENTAL REQUIREMENTS BELOW. REPORTS FROM TESTS REQUIRED BY SECTION 1.6 OF ACI 301-10 SHALL BE SUBMITTED TO STRUCTURAL ENGINEER, ARCHITECT, OWNER,							
2.	CONCI	RACTOR, CONCRETE SUPPLIER, AND BUILDING OFFICIAL.	2.	MC CO ST			
	STRUCTURAL ENGINEER FOR APPROVAL IN ACCORDANCE WITH ACI 301-10 SECTION 4.2.3.4 FIELD TEST DATA OR TRIAL MIXTURES. SUBMITTAL DATA MUST INCLUDE FIELD TEST DATA FROM AT LEAST 10 TESTS OR A THREE POINT CURVE GENERATED USING TRIAL MIXTURES.						
3.							
4.	MATEF A.	RIALS: (f'c BASED ON 28 DAY UNLESS NOTED) CONCRETE UNLESS NOTED: f'c = 4000 PSI., NORMAL WEIGHT AGGREGATE.		Α.			
	л.	$\mathbf{U}_{\mathbf{U}} = \mathbf{U}_{\mathbf{U}} = $					
	В.	REINFORCING STEEL: 1. DEFORMED BARS: ASTM A615, ASTM A706, OR ASTM A996 (A996 BARS FROM RAIL STEEL SHALL BE TYPE R), 60 KSI YIELD.		В.			
	C. D.	PLASTICIZING ADMIXTURE: ASTM C1017. WATER REDUCING ADMIXTURE: ASTM C494.		C.			

OF ADMIXTURES. REINFORCING BARS SHALL HAVE CLEAR C INDICATED, PROVIDE MINIMUM CLEAR COVI LAP SPLICE REINFORCING BARS AS FOLLON Α. HORIZONTAL BARS #6 AND SMALLE DIAMETERS HORIZONTAL BARS #6 AND SMALLE R OTHER BARS - 50 BAR DIAMETERS **REINFORCING BARS SHALL BE FREE OF DIF** AT CORNERS AND INTERSECTIONS OF F BARS OF EQUAL SIZE AND AT SAME SPACIN INTO ABUTTING FOOTING, WALL OR GR DIAMETERS (18" MIN.). SEE ARCHITECTURAL DRAWINGS AND SF VAPOR BARRIER, WHERE REQUIRED, SHALL CONDUITS AND PIPES OF ALUMINUM SH UNLESS EFFECTIVELY COATED TO PREVEN ACTION BETWEEN ALUMINUM AND STEEL AST CONCRETE HOLLOW CORE PLANKS CEMENT GROUT SHALL BE A MIXTURE C THREE PARTS FINE SAND, AND THE CO COMPLETELY FILLED BUT WITHOUT SEEP SEEPS FROM THE JOINT SHALL BE COMPLE MANUFACTURER SHALL PROVIDE 1/8" MONOMER BEARING STRIPS AT ALL CONC STRIPS SHALL HAVE A BEARING STRESS DE AT SLAB ENDS PROVIDE SUITABLE END CAP EXTERIOR PLANK TO RECEIVE WATERPRO FINISH. GROUT KEYS SHALL BE FILLED. ANICAL FASTENERS EXPANSION ANCHORS ANCHORAGE TO CONCRETE: HIL Α. REPORT AND MANUFACTURER'S

- SUBSTITUTES COMPLYING WITH AC IN CRACKED CONCRETE MAY DEMONSTRATING COMPLIANCE WIT ANCHORAGE TO SOLID GROUTED INSTALL PER ICC REPORT AND MA (MPII). SUBSTITUTES COMPLYING V TESTS MAY BE CONSIDERED; SUBM
- WITH GOVERNING CODE PRIOR TO FOR CONNECTIONS TO EXISTING RE **REINFORCING USING A REBAR DET** ANCHOR LOCATIONS CONFLICT W EXISTING REINFORCING BARS.

SIVE ANCHORS

- ANCHORAGE TO CONCRETE: HILTI "HIT-I REPORT AND MANUFACTURER'S PRINTEI COMPLYING WITH ACCEPTANCE CRITERI CONSIDERED; SUBMIT EVALUATION REPO CODE PRIOR TO INSTALLATION.
- STEEL THREADED ROD ANCHORS Α. EMBEDMENT SHALL BE AS INDICAT

ANCHORAGE TO SOLID GROUTED CONCR INSTALL PER ICC REPORT AND MANUFACT SUBSTITUTES COMPLYING WITH ACCEPT. EVALUATION REPORT DEMONSTRATING INSTALLATION.

- STEEL THREADED ROD ANCHORS Α. SHALL BE AS INDICATED ON DRAWI
- CONTRACTOR SHALL VERIFY THAT THE SH ON THE DATE OF INSTALLATION.
- TESTING AND INSPECTION: REFER TO IC TESTING AND INSPECTION REQUIREMENTS TESTED TO THE FOLLOWING LOADS UNLES
- FOR CONNECTIONS TO EXISTING REI LOCATIONS OF THE EXISTING REINFOR DRILLING. NOTIFY THE ENGINEER PRIOF WITH EXISTING REINFORCING BARS. DO N

<u>)NRY</u>

- MASONRY CONSTRUCTION AND MATERI "SPECIFICATIONS FOR MASONRY STRUCT MODIFIED BY THE REQUIREMENTS OF THES
- COMPRESSIVE STRENGTH SHALL BE DET STRENGTH METHOD.
- A. CONCRETE MASONRY: f'm = 1500 PS
- SUBMITTALS SHALL BE MADE FOR THE FOL
- MANUFACTURERS LITERATURE FOF Α. HORIZONTAL JOINT REINFOR
- REINFORCING STEEL POSITI TIES & ANCHORS. 3.
- SHOP DRAWINGS SHOWING: DETAILS OF STEEL REINFOR LINTELS.
- C. MANUFACTURERS CERTIFICATE OF
 - MASONRY UNIT. REINFORCING STEEL 2.

E.	CHLORIDE CONTENT OF CONCRETE: LIMIT TOTAL CHLORIDE ION CONTENT TO AMOUNT INDICATED IN TABLE 4.2.2.7.d OF ACI 301-10 (EXPOSURE CLASS C0 UNLESS NOTED OTHERWISE). ADMIXTURES CONTAINING CHLORIDE ARE NOT PERMITTED IN REINFORCED		D.	PRO 1.	PORTIONS OF MATERIAL IN ACCORDANCE WITH REFERENCED SPECIFICATIONS OF: MORTAR.		
	CONCRETE OR CONCRETE CONTAINING METALS.	4.	MATE	2. ERIALS	GROUT.	. PA	
	P SHALL BE MEASURED PRIOR TO THE ADDITION OF ADMIXTURES AND AFTER THE ADDITION DMIXTURES.		A.		ICRETE MASONRY UNITS: ASTM C90 TYPE I.	A.	
	FORCING BARS SHALL HAVE CLEAR COVER AS INDICATED ON THE DRAWINGS. WHERE NOT		Р	1. MOT	NORMAL WEIGHT AGGREGATE PER ASTM C33.		
	ATED, PROVIDE MINIMUM CLEAR COVER PER ACI-318. PLICE REINFORCING BARS AS FOLLOWS UNLESS NOTED OTHERWISE:		B.	1.	RTAR: ASTM C270 9. MORTAR TYPES). PF EN	
A.	HORIZONTAL BARS #6 AND SMALLER WITH MORE THAN 12" OF CONCRETE BELOW - 64 BAR				A. ALL MASONRY UNLESS NOTED OTHERWISE: TYPE S	PF	
_	DIAMETERS			2.	PORTLAND CEMENT-LIME MORTAR:	SH PF	
В.	HORIZONTAL BARS #6 AND SMALLER WITH LESS THAN 12" OF CONCRETE BELOW, AND ALL OTHER BARS - 50 BAR DIAMETERS				A. PORTLAND CEMENT: TYPE I. 10 B. HYDRATED LIME: TYPE S.	0. CC	
REINF	FORCING BARS SHALL BE FREE OF DIRT AND FORM RELEASE AGENTS.			3.		1. CC	
	ORNERS AND INTERSECTIONS OF FOOTINGS, WALLS AND GRADE BEAMS, PROVIDE BENT OF EQUAL SIZE AND AT SAME SPACING AS TYPICAL REINFORCING AROUND CORNER AND/OR		C.		DUT: ASTM C476. SLUMP 8" TO 11". MINIMUM COMPRESSIVE STRENGTH = 2000 PSI AT 28	EN MI	
	ABUTTING FOOTING, WALL OR GRADE BEAM. BARS SHALL HAVE EMBEDMENT OF 38 ETERS (18" MIN.).			DAY	<u>M</u>	IETAL GR	
055			D.		NFORCING STEEL: ASTM A615, ASTM A706, OR ASTM A996, 60 KSI YIELD. 1.	. PR	
	ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR VAPOR BARRIER REQUIREMENTS. R BARRIER, WHERE REQUIRED, SHALL BE PLACED OVER COMPACTED GRANULAR SUBBASE.		E.	gag Hor	RIZONTAL JOINT REINFORCING FOR SINGLE WYTHE CONCRETE MASONRY: ASTM A951 9 GE LADDER TYPE. HOT DIPPED GALVANIZED PER ASTM A153 CLASS B. PLACE RIZONTAL JOINT REINFORCING AT 16" CENTERS VERTICALLY FOR CONCRETE MASONRY. HORIZONTAL JOINT REINFORCING 6" MINIMUM. HORIZONTAL JOINT REINFORCING	PR PR MI	
UNLE	OUITS AND PIPES OF ALUMINUM SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE SS EFFECTIVELY COATED TO PREVENT ALUMINUM-CONCRETE REACTION OR ELECTROLYTIC		SHALL BE DISCONTINUOUS ACROSS MOVEMENT JOINTS.				
	ON BETWEEN ALUMINUM AND STEEL	_	F.		OVIDE BULLNOSE MASONRY BLOCK AT ALL EXPOSED CORNERS.	AS AS AN	
	INCRETE HOLLOW CORE PLANKS	5.			SSURANCE E STRUCTURAL OBSERVATION (NOT CONSIDERED PART OF SPECIAL INSPECTIONS) OF ^{3.}	. AC	
THRE COMF SEEP:	E PARTS FINE SAND, AND THE CONSISTENCY SHALL BE SUCH THAT JOINTS CAN BE PLETELY FILLED BUT WITHOUT SEEPAGE OVER ADJACENT SURFACES. ANY GROUT THAT S FROM THE JOINT SHALL BE COMPLETELY REMOVED BEFORE IT HARDENS.		Λ.	Mas Obs Alti Paie	SONRY WORK IS REQUIRED PER ACI 530.1-08/ASCE 6-08/TMS 602-08. SITE SERVATIONS WILL BE MADE BY THE STRUCTURAL ENGINEER, ARCHITECT, OR AN ERNATE APPROVED BY THE STRUCTURAL ENGINEER. COST OF THIS SERVICE WILL BE D FOR BY OWNER. REQUEST FOR OBSERVATION IS THE RESPONSIBILITY OF THE	PF LC S⊢	
MONO	IFACTURER SHALL PROVIDE 1/8" THICK TEMPERED HARDBOARD OR PLASTIC MULTI- DMER BEARING STRIPS AT ALL CONCRETE AND MASONRY BEARING LOCATIONS. BEARING I'S SHALL HAVE A BEARING STRESS DESIGN FACTOR OF SAFETY OF 2.		DE		NERAL CONTRACTOR. THE SITE OBSERVER SHALL VERIFY COMPLIANCE WITH THE SIGN DRAWINGS AND SPECIFICATIONS AND KEEP A RECORD WHICH WILL COVER: QUALITY OF MASONRY UNITS AND MATERIALS FOR MORTAR AND GROUT.	FA ISS TY	
	AB ENDS PROVIDE SUITABLE END CAP OR DAM IN VOIDS AS REQUIRED.			2. 3.	PROPORTIONING, MIXING AND CONSISTENCY OF MORTAR AND GROUT. LAYING, MORTARING AND GROUTING OF MASONRY UNITS AND MASONRY 4.	SA . QL	
EXTE FINIS	RIOR PLANK TO RECEIVE WATERPROOFING MEMBRANE SHALL HAVE A SMOOTH-TROWELED			4 .	STRUCTURAL ELEMENTS. CONDITIONS, GRADE, SIZE, SPACING AND PLACING OF REINFORCING.	MA	
GROL	IT KEYS SHALL BE FILLED.			5. 6.	TYPE, SPACING, AND PLACING OF TIES AND ACCESSORIES. ANY SIGNIFICANT OR UNUSUAL CONSTRUCTION LOADS ON COMPLETED MASONRY STRUCTURAL ELEMENTS.	GF FA	
	<u>_ FASTENERS</u>			7.	TEMPERATURE, MOISTURE CONDITIONS, AND PROVISIONS THAT WERE MADE FOR HOT OR COLD WEATHER CONSTRUCTION.	RE . DE	
	NSION ANCHORS		_	8.	GENERAL PROGRESS OF WORK.	DE	
Α.	ANCHORAGE TO CONCRETE: HILTI "KWIK BOLT TZ" (ICC ESR-1917). INSTALL PER ICC REPORT AND MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII). SUBSTITUTES COMPLYING WITH ACCEPTANCE CRITERIA AC 193 AND ACI 355.2-07 FOR USE		В.		SERVATION RECORDS, IF DONE OTHER THAN BY STRUCTURAL ENGINEER, SHALL BE EDIATELY FORWARDED TO STRUCTURAL ENGINEER AFTER EACH SITE VISIT.	US MA MA	
_	IN CRACKED CONCRETE MAY BE CONSIDERED; SUBMIT EVALUATION REPORT DEMONSTRATING COMPLIANCE WITH GOVERNING CODE PRIOR TO INSTALLATION.	6.	MIX I	n fuli 'n as m	ROPORTIONS MUST BE ACCURATELY MEASURED PRIOR TO MIXING. ADD CEMENT TO L BAG QUANTITIES. MEASURE SAND IN BOX WITH VOLUME OF ONE CUBIC FOOT AS NECESSARY TO MAINTAIN CONSISTENT PROPORTIONS AND AT LEAST ONCE DAILY AND ^{6.}	NC	
В.	NCHORAGE TO SOLID GROUTED MASONRY UNITS: HILTI "KWIK BOLT 3" (ICC ESR-1385). NSTALL PER ICC REPORT AND MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS MPII). SUBSTITUTES COMPLYING WITH ACCEPTANCE CRITERIA AC 01 INCLUDING SEISMIC				DURS OF MIXING. TECTURAL DRAWINGS FOR LOCATIONS AND SPECIFICATIONS OF FIRE RATED MASONRY.	AC 44	
	TESTS MAY BE CONSIDERED; SUBMIT EVALUATION REPORT DEMONSTRATING COMPLIANCE WITH GOVERNING CODE PRIOR TO INSTALLATION.	7. 8.			PREFABRICATED "L" AND "T" SHAPED HORIZONTAL JOINT REINFORCING AT WALL 7.	. MA	
C.	FOR CONNECTIONS TO EXISTING REINFORCED CONCRETE, VERIFY THE LOCATIONS OF THE	-	INTEF	RSECT	IONS.	ST GF	
	REINFORCING USING A REBAR DETECTOR, PRIOR TO DRILLING. NOTIFY THE ENGINEER IF ANCHOR LOCATIONS CONFLICT WITH EXISTING REINFORCING. DO NOT DRILL THROUGH				OND PATTERN SHALL BE USED FOR ALL MASONRY WORK UNLESS OTHERWISE NOTED.	GF PR	
IVE AM	EXISTING REINFORCING BARS.	10.	ARCH	ITECT	MOVEMENT (CONTROL AND EXPANSION) JOINTS IN WALLS WHERE INDICATED ON "URAL DRAWINGS. BOND BEAMS SHALL BE DISCONTINUOUS ACROSS MOVEMENT LESS NOTED OTHERWISE:	TH BE BE	
	ORAGE TO CONCRETE: HILTI "HIT-RE 500-V3" EPOXY (ICC ESR-3814). INSTALL PER ICC RT AND MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII). SUBSTITUTES	11.			OTED OTHERWISE ON PLANS, UNDER LINTELS, BEARING PLATES, BEAMS, ETC.; FILL I GROUT, 3 COURSES MINIMUM BELOW BEARING.	BE BE TC CF	
CONS	PLYING WITH ACCEPTANCE CRITERIA AC 308 FOR USE IN CRACKED CONCRETE MAY BE DERED; SUBMIT EVALUATION REPORT DEMONSTRATING COMPLIANCE WITH GOVERNING	12.	2. UNLESS NOTED OTHERWISE ON PLANS, LINTELS SHALL HAVE 8" MINIMUM END BEARING.				
A.	E PRIOR TO INSTALLATION. STEEL THREADED ROD ANCHORS SHALL BE HILTI "HAS-E" STANDARD RODS. SIZE AND EMBEDMENT SHALL BE AS INDICATED ON DRAWINGS.	13.	LOCA PER (TED A	ORCING STEEL SHALL BE SUPPORTED AND FASTENED TO APPROVED POSITIONERS IT 192 BAR DIAMETERS MAXIMUM SPACING AND WITH A MINIMUM OF TWO POSITIONERS IT POUR (ONE NEAR THE BOTTOM AND ONE NEAR THE TOP) TO PREVENT DISPLACEMENT	FA WC DF ITE MA	
	ORAGE TO SOLID GROUTED CONCRETE MASONRY UNITS: HILTI "HIT-HY 70" (ICC ESR-2682).				E PLACEMENT OF GROUT.	DE	
SUBS EVAL	ALL PER ICC REPORT AND MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII). TITUTES COMPLYING WITH ACCEPTANCE CRITERIA AC 58 MAY BE CONSIDERED; SUBMIT UATION REPORT DEMONSTRATING COMPLIANCE WITH GOVERNING CODE PRIOR TO ALLATION.	14. 15.	PROV	/IDE R	CELLS BELOW GRADE SOLID. REINFORCING BAR SPLICES AS SPECIFIED IN THE FOLLOWING TABLE. BAR SPLICE MAY BE CONSIDERED AS A SUBSTITUTE, SUBMIT MANUFACTURER'S DATA PRIOR TO	LIN SH AS CC	
A.	STEEL THREADED ROD ANCHORS SHALL BE HILTI "HAS-E" RODS. SIZE AND EMBEDMENT		INST	ALLATI		MA	
0017	SHALL BE AS INDICATED ON DRAWINGS.		<u>BAR (</u> #4		LAP SPLICE 36"	FA	
	RACTOR SHALL VERIFY THAT THE SHELF LIFE OF THE ADHESIVE HAS NOT BEEN EXCEEDED HE DATE OF INSTALLATION.		#	5	4 5"	MA	
	NG AND INSPECTION: REFER TO ICC REPORT(S) AND SPECIAL INSPECTION TABLE FOR ING AND INSPECTION REQUIREMENTS. WHERE TESTING IS REQUIRED, ANCHORS SHALL BE	<u>Stru</u>	CTURA	L STEE	<u>EL</u> 8.	. AC	
TESTI	ED TO THE FOLLOWING LOADS UNLESS OTHERWISE INDICATED.	1.	"DESI	IGN, F/	ING, FABRICATION, AND ERECTION SHALL CONFORM TO AISC SPECIFICATIONS FOR ABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", AND THE AISC	PR AN	
FOR CONNECTIONS TO EXISTING REINFORCED CONCRETE OR MASONRY, VERIFY THE LOCATIONS OF THE EXISTING REINFORCING BARS USING A REBAR DETECTOR, PRIOR TO					STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", LATEST EDITION.	. Fie An	
	ING. NOTIFY THE ENGINEER PRIOR TO INSTALLATION IF ANCHOR LOCATIONS CONFLICT EXISTING REINFORCING BARS. DO NOT DRILL THROUGH EXISTING REINFORCING BARS.	2.			AL STEEL FABRICATOR SHALL PARTICIPATE IN THE AISC QUALITY CERTIFICATION AND SHALL BE DESIGNATED AN AISC-CERTIFIED PLANT. 10	0. IN: PR	
NRY		3.			R SHALL DESIGN CONNECTIONS AND SUBMIT CALCULATIONS TO AID THE ENGINEER IN INLESS SPECIFIC END MOMENTS AND REACTIONS ARE INDICATED ON DRAWINGS,	AN BE	
MASO	NRY CONSTRUCTION AND MATERIALS SHALL CONFORM TO ALL REQUIREMENTS OF		DESI	GN AN	ID FABRICATE CONNECTIONS TO RESIST SHEAR BASED ON THE MAXIMUM UNIFORM ACITY OF THE MEMBER FOR THE SPAN INCREASED BY 15%, BUT NO MORE THAN THE	PL PL	
	CIFICATIONS FOR MASONRY STRUCTURES" (ACI 530.1-08/ASCE 6-08/TMS 602-08), EXCEPT AS FIED BY THE REQUIREMENTS OF THESE CONTRACT DOCUMENTS.					IN: RE	
	PRESSIVE STRENGTH SHALL BE DETERMINED FOR EACH TYPE OF MASONRY BY THE UNIT NGTH METHOD.	4.	INDIC	ATED		1. GF SUPPORTI	
A.	CONCRETE MASONRY: $f'_m = 1500$ PSI AT 28 DAYS.	5.			RUCTURAL DRAWINGS.		
	ITTALS SHALL BE MADE FOR THE FOLLOWING: MANUFACTURERS LITERATURE FOR:	6.	WELD	DING SI	HALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS D1.1:2010).	SPECIAL I	
A.	1. HORIZONTAL JOINT REINFORCING.	7.	MATE	RIALS	: C	ONSTRU ARTIES	
	 REINFORCING STEEL POSITIONERS. TIES & ANCHORS. 		Α.		HAPES UNLESS NOTED: ASTM A992, Fy = 50 KSI.	N CHAPT THE OWN	
В.	SHOP DRAWINGS SHOWING:		B.				
	1. DETAILS OF STEEL REINFORCING.		C.		Α	HE SCHE	
C.	2. LINTELS. MANUFACTURERS CERTIFICATE OF COMPLIANCE FOR SPECIFIED:		D. E.		W	VORK. TI DESIGN P	
	1. MASONRY UNIT.		с. F.		LD WELDS: AWS E70XX, LOW HYDROGEN ELECTRODES.		
	2. REINFORCING STEEL.		G.	NON	N-SHRINK NON-METALLIC GROUT: CRD-C-621 AND ASTM C1107 FOR INTERIOR AND		
				EXT	ERIOR APPLICATIONS, FLUID TYPE.		

FOR GROUT IN EXTERIOR APPLICATIONS, SUCH AS GUARDRAIL ANCHORAGE, LIMIT 1 GYPSUM CONTENT TO 1.5% MAXIMUM.

AINT AND PROTECTION:

STRUCTURAL STEEL UNLESS NOTED: PREPARE STEEL SURFACES PER SSPC-SP3 "POWER TOOL CLEANING" AND PAINT WITH FABRICATOR'S STANDARD PRIME COAT, SUCH AS TNEMEC 10-1009. TOUCH UP AFTER ERECTION.

RE-ENGINEERED STAIR: CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE PRE-NGINEERED STAIR FOR REVIEW BY THE ARCHITECT/ENGINEER. FABRICATION SHALL NOT BEGIN RIOR TO SHOP DRAWING APPROVAL BY ENGINEER. SHOP DRAWINGS SHALL INCLUDE STAIRS, UARDRAILS, AND GRATING TREADS. SHOP DRAWINGS FOR STAIRS, GUARDRAILS AND TREADS HALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER WHO IS REGISTERED IN THE STATE THE ROJECT OCCURS, AND WHO IS PROVIDING SERVICES AS A SPECIALTY ENGINEER.

ONTRACTOR SHALL SUBMIT ERECTION AND SHOP DRAWINGS FOR REVIEW BY ENGINEER. ABRICATION SHALL NOT BEGIN PRIOR TO SHOP DRAWING APPROVAL BY ENGINEER.

ONTRACTOR SHALL SUBMIT MISCELLANEOUS STEEL SHOP DRAWINGS FOR REVIEW BY NGINEER. FABRICATION SHALL NOT BEGIN PRIOR TO SHOP DRAWING APPROVAL BY ENGINEER. ISCELLANEOUS STEEL SHOP DRAWINGS SHALL INCLUDE STAIRS, GUARDRAILS, AND LADDERS.

ATING FOR MECHANICAL PLATFORM & PRE-ENGINEERED STAIR

ROVIDE THE FOLLOWING:

REFABRICATED CUSTOM-DESIGNED LIGHT DUTY STEEL BAR GRATINGS REFABRICATED CUSTOM-DESIGNED STEEL STAIR TREADS ISCELLANEOUS INSTALLATION HARDWARE AND ACCESSORIES

EFERENCES

STM A-1011 CS TYPE B STEEL STRIP HOT-ROLLED CARBON

STM A-510 CARBON STEEL WIRE RODS NSI/NAAMM- MBG-531-09 METAL BAR GRATING MANUAL

CTION SUBMITTALS

RODUCT DATA: THE CONTRACTOR SHALL SUBMIT THE MANUFACTURER'S CATALOG PAGES INCLUDING DAD TABLES, ANCHOR DETAILS AND STANDARD INSTALLATION DETAILS.

HOP DRAWINGS: THE CONTRACTOR SHALL SUBMIT FOR APPROVAL SHOP DRAWINGS FOR THE ABRICATION AND ERECTION OF ALL GRATINGS, BASED ON CONSTRUCTION DRAWINGS OF CURRENT SUE. INCLUDE PLANS, ELEVATIONS, AND DETAILS OF SECTIONS AND CONNECTIONS AS REQUIRED. SHOW YPE AND LOCATION OF ALL FASTENERS.

AMPLES OF GRATING AND ANCHORAGE SYSTEM SHALL BE SUBMITTED FOR APPROVAL.

UALITY ASSURANCE

ANUFACTURER QUALIFICATION: A COMPANY SPECIALIZING IN THE MANUFACTURE OF METAL BAR RATINGS WITH NOT LESS THAN 10 YEARS OF DOCUMENTED EXPERIENCE.

ABRICATION TOLERANCES SHALL BE IN ACCORDANCE WITH APPLICABLE PROVISIONS AND ECOMMENDATIONS OF ANSI/NAAMM 531-09 METAL BAR GRATING MANUAL.

ESIGN BASIS

ESIGN IS BASED UPON USE OF GRATINGS AS MANUFACTURED BY OHIO GRATINGS INC. AND TERMINOLOGY SED HEREIN MAY INCLUDE REFERENCE TO THE SPECIFIC PERFORMANCE OR PRODUCT OF THIS ANUFACTURER. SUCH REFERENCE SHALL BE CONSTRUED ONLY AS ESTABLISHING THE QUALITY OF ATERIALS. OPERATIONAL FEATURES AND WORKMANSHIP TO BE USED UNDER THIS SECTION AND SHALL OT, IN ANY WAY, BE CONSTRUED AS LIMITING COMPETITION.

ANUFACTURERS:

CCEPTABLE MANUFACTURERS INCLUDE OHIO GRATINGS INC. 5299 SOUTHWAY ST. SW, CANTON, OHIO 706, 800-321-9800 WWW.OHIOGRATINGS.COM , OR APPROVED EQUAL.

ANUFACTURED UNITS:

TAIR TREAD DESCRIPTION: STAIR TREADS SHALL BE THE SAME TYPE AND SPACING AS SPECIFIED RATING. NOSING SHALL BE ALGRIP TYPE.

RATING DESCRIPTION: CARBON STEEL LIGHT DUTY WELDED BAR GRATING TYPE 19-W-4: FABRICATED BY RESS WELDING STEEL CROSS BARS INTO RECTANGULAR BEARING BARS THUS PERMANENTLY LOCKING HE BARS IN PLACE.

EARING BAR SPACING: 1-3/16" ON CENTER.

ARING BAR DEPTH: 1" EARING BAR THICKNESS: 3/16" TO PROVIDE 1" SPACE BETWEEN BARS.

OP SURFACE OF BEARING BARS: SERRATED ROSS BAR SPACING: 4" ON CENTER.

ABRICATION: FABRICATE CUTOUTS / NOTCH-OUTS IN GRATING SECTIONS FOR PENETRATIONS AND TO ORK AROUND OTHER ITEMS AS NEEDED (REFER TO STRUCTURAL, ARCHICTECTURAL AND MECHANICAL RAWINGS), ARRANGE CUTOUTS / NOTCH-OUTS TO PERMIT GRATING REMOVAL WITHOUT DISTURBING EMS PENETRATING GRATINGS. BAND ENDS AND CUTS IN GRATING WITH BARS OF SAME SIZE AND ATERIAL AS BEARING BARS. BANDS ALL EDGES OF INDIVIDUAL GRATING PIECES.

ESIGN CRITERIA: LOADING: GRATING PRODUCTS SHALL BE DESIGNED AND MANUFACTURED TO MEET THE VE LOAD CONDITIONS OF 100 LBS/ SQ FT WITH MAXIMUM DEFLECTION OF 1/4" FOR THE CLEAR SPANS HOWN ON THE DRAWINGS. BEARING BAR DEPTH SHALL BE AS SHOWN ON THE CONTRACT DRAWINGS OR RECOMMENDED BY THE MANUFACTURER TO MEET THE LOADING REQUIREMENTS, CLEAR SPAN ONDITIONS AND MAXIMUM DEFLECTIONS SPECIFIED.

ATERIALS: BEARING BARS AND BANDING ARE CARBON STEEL TYPE ASTM A-1011 CS TYPE B AND STEEL ROSS BARS ARE TYPE ASTM A-510.

ABRICATION TOLERANCES SHALL BE IN ACCORDANCE WITH ANSI/NAAMM MBG 531-09 METAL BAR GRATING ANUAL.

NISH: GRATINGS SHALL BE HOT-DIP GALVANIZED PER ASTM A123

CCESSORIES: ROVIDE APPROPRIATE FASTENERS FOR TYPE, GRADE, AND CLASS REQUIRED FOR THE APPROVED NCHORAGE SYSTEM.

ELD VERIFICATION: TAKE FIELD MEASUREMENTS PRIOR TO PREPARATION OF FINAL SHOP DRAWINGS ND FABRICATION WHERE REQUIRED TO ENSURE PROPER FITTING OF THE WORK.

STALLATION RIOR TO GRATING INSTALLATION, CONTRACTOR SHALL INSPECT SUPPORTS FOR CORRECT ALIGNMENT ND CONDITIONS FOR PROPER ATTACHMENT AND SUPPORT OF THE GRATINGS. ANY INCONSISTENCIES TWEEN CONTRACT DRAWINGS AND SUPPORTING STRUCTURE DEEMED DETRIMENTAL TO GRATING ACEMENT SHALL BE REPORTED IN WRITING TO THE ARCHITECT OR OWNER'S AGENT PRIOR TO ACEMENT

STALL GRATING IN ACCORDANCE WITH SHOP DRAWINGS AND STANDARD INSTALLATION CLEARANCES AS ECOMMENDED BY ANSI/NAAMM MBG-531-09 METAL BAR GRATING MANUAL.

RATING ATTACHMENT: USE APPROVED ATTACHMENT SYSTEM AND FASTENERS TO SECURE GRATING TO ING MEMBERS AS SHOWN ON PLANS.

INSPECTIONS FOR STRUCTURAL WORK

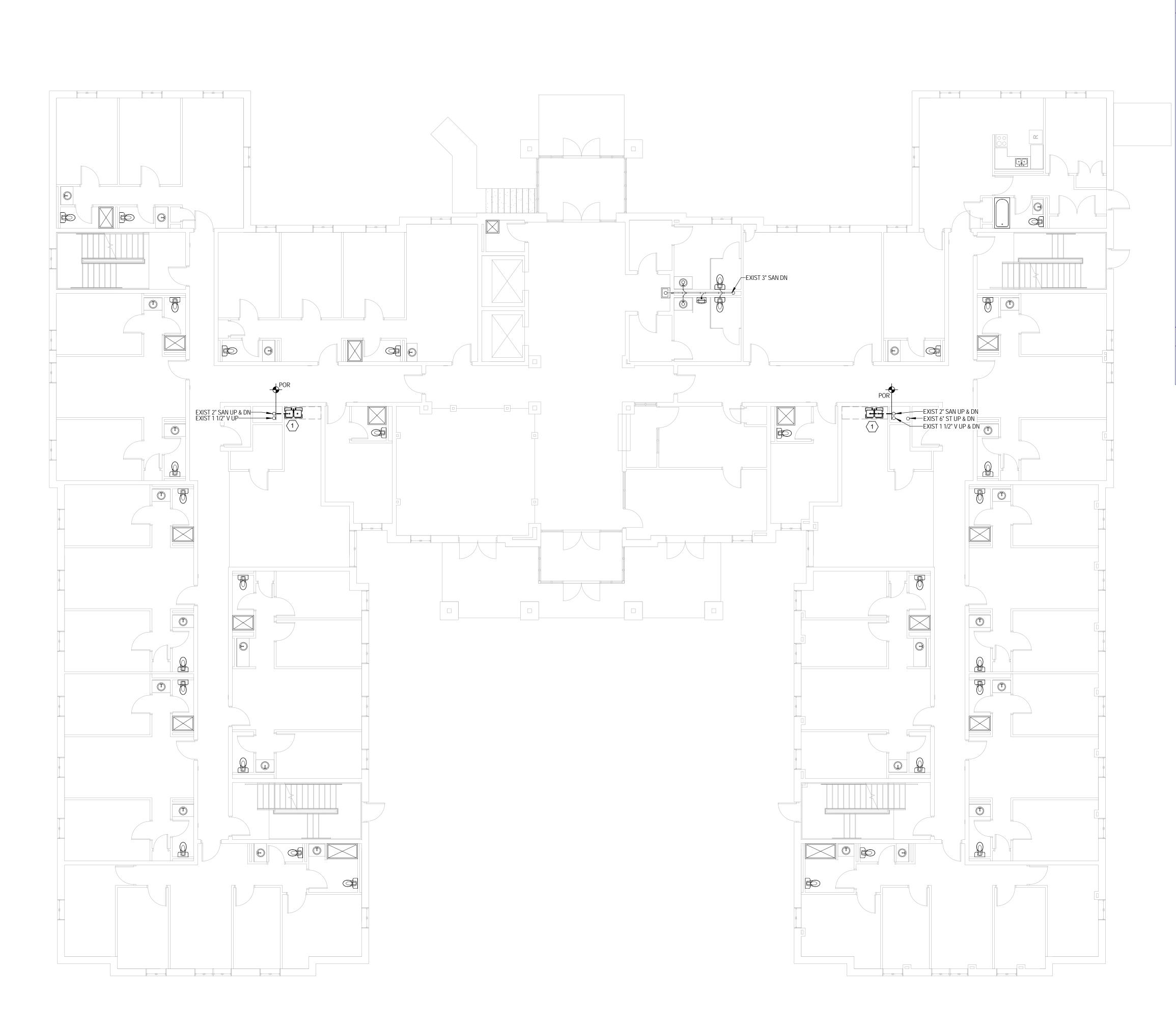
INSPECTIONS ARE REQUIRED BY SECTION 1704 OF THE REFERENCED BUILDING CODE. THE DF SPECIAL INSPECTIONS IS TO VERIFY THE COMPLIANCE OF MATERIALS, INSTALLATION, TION, ERECTION AND/OR PLACEMENT OF COMPONENTS WITH THE COMPLETED SET OF UCTION DOCUMENTS AND REFERENCED STANDARDS. IT IS THE RESPONSIBILITY OF ALL INVOLVED TO BECOME FAMILIAR WITH THE SPECIAL INSPECTION REQUIREMENTS SET FORTH ER 17 OF THE REFERENCED BUILDING CODE. SPECIAL INSPECTIONS SHALL BE PROVIDED BY VER OR THE OWNER'S AGENT AND SHALL NOT BE CONSIDERED IN THE SCOPE OF WORK OF THE CTOR

EDULE OF SPECIAL INSPECTIONS FOR STRUCTURAL WORK HAS BEEN PREPARED IN ANCE WITH SECTIONS 106.1 AND 1704 OF THE REFERENCED BUILDING CODE, AND IS AVAILABLE QUEST. SEE OTHERS FOR SPECIAL INSPECTION REQUIREMENTS FOR NON-STRUCTURAL HE SPECIAL INSPECTOR(S) SHALL COORDINATE WITH THE OWNER, CONTRACTORS, AND PROFESSIONALS AND SCHEDULE ALL INSPECTIONS ACCORDINGLY.

Project #: 304 East Eighth Cincinnati OH 45202-2231 v. (513) 665-9555 f. (513) 665-9857 glaserworks architecture & urban design **PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS: Motz Engineering** 300 West 4th Street, Suite 300 Cincinnati. OH 45202-2666 T: 513.621.5400 F: 513.621.5407 MEP Design Security Sustainable Design Commissioning Design/Build STRUCTURAL ENGINEERS: schaeter 10411 Medallion Drive. Suite 121 Cincinnati, OH 45241 T: 513.542.3300 F: 513.542.5540 SHEET REVISION REV # DATE DESCRIPTION DATE DESCRIPTION BIDDING AND PERMIT 2/16/2017 GENERAL NOTES

Schaefer Project Number: 1624.03 PRINT DATE: 2/15/2017 3:46:15 PM

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GENERAL NOTES:

- A. ALL MATERIAL AND WORKMANSHIP SHALL COMPLY WITH THE CURRENT EDITION OF THE OHIO BUILDING CODE AND CURRENT EDITION OF THE OHIO PLUMBING CODE. MATERIALS SHALL BE UL LISTED, NEW, DEFECT FREE AND INSTALLED PER MANUFACTURER SPECIFICATIONS.
- B. WHERE CONFLICTS EXIST AMONG DRAWINGS , SPECIFICATIONS AND EQUIPMENT SCHEDULES, THE MORE STRINGENT SHALL APPLY.
- C. CONTRACTOR TO MODIFY EXISTING POTABLE WATER AND SANITARY LINES AS REQUIRED FOR NEW/MODIFIED PLUMBING.
- D. REFER TO SHEET P200 FOR PLUMBING FIXTURE TYPES.
- E. CONTRACTOR SHALL PATCH AND REPAIR FINISHED FLOORS AND WALLS.
- F. CONTRACTOR TO FIELD VERIFY ALL INVERT ELEVATIONS PRIOR TO TIE-INS.
- 5. CONTRACTOR SHALL VISIT THE JOB SITE AND CHECK AND VERIFY ALL EXISTING CONDITIONS BEFORE BIDDING. ANY DISCREPANCIES DISCOVERED BETWEEN EXISTING CONDITIONS AT THE SITE AND THOSE SHOWN ON THE DRAWINGS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER, IN WRITING. CONTRACTOR SHALL INSPECT THE FOLLOWING BUT NOT LIMITED TOO: ALL PIPING AND EQUIPMENT LOCATIONS, CONFIGURATIONS, SIZES AND CONDITIONS. CONTRACTOR SHALL ALSO LOCATE UNDERGROUND SANITARY AND STORM PIPING AND INVERT ELEVATIONS AT TIE IN POINTS.
- I. CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
- CONTRACTOR SHALL REMOVE ALL PIPING THAT IS NOT IN THE FINAL ARRANGEMENT.
- I. FIRE STOPPING BY THIS CONTRACTOR SHALL BE USED AT ANY PENETRATION THROUGH A FIRE RATED ASSEMBLY. REFER TO ARCHITECTURAL CONSTRUCTION DOCUMENTS FOR LOCATION OF RATED ASSEMBLIES INCLUDING UL APPROVED FIRESTOP SYSTEM METHODS FOR "THROUGH PENETRATION" ASSEMBLIES.
- K. IN AREAS WHERE CEILINGS ARE NOT BEING REPLACED AND CONTRACTOR HAS WORK ABOVE THE CEILING, THE CONTRACTOR SHALL PATCH AND REPAIR CEILINGS TO MATCH EXISTING.

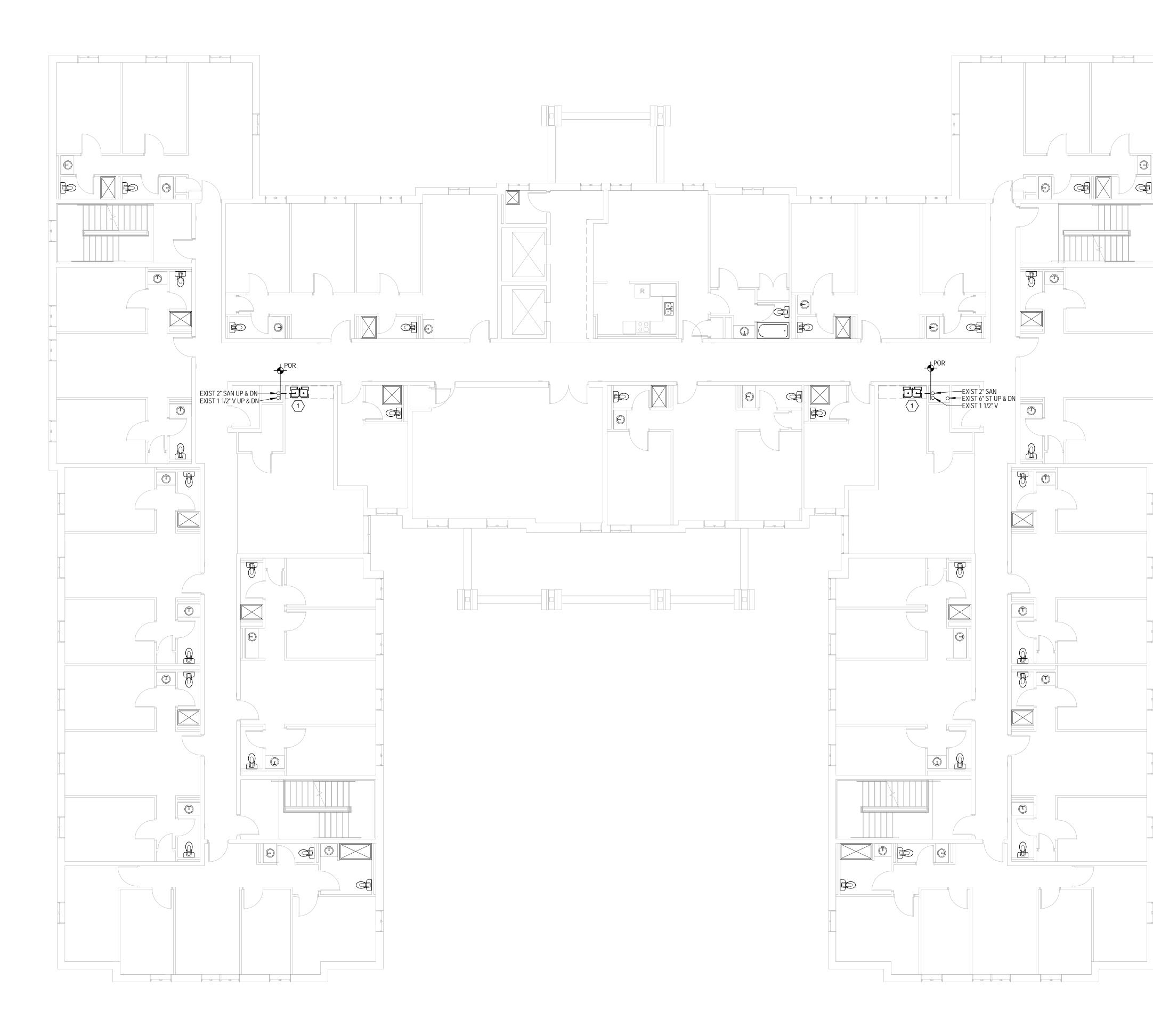
DRAWING NOTES: 🖉

1. CONTRACTOR TO REMOVE EXISTING SAN AND VENT PIPING TO POINT SHOWN FOR RECONNECTION IN NEW WORK.

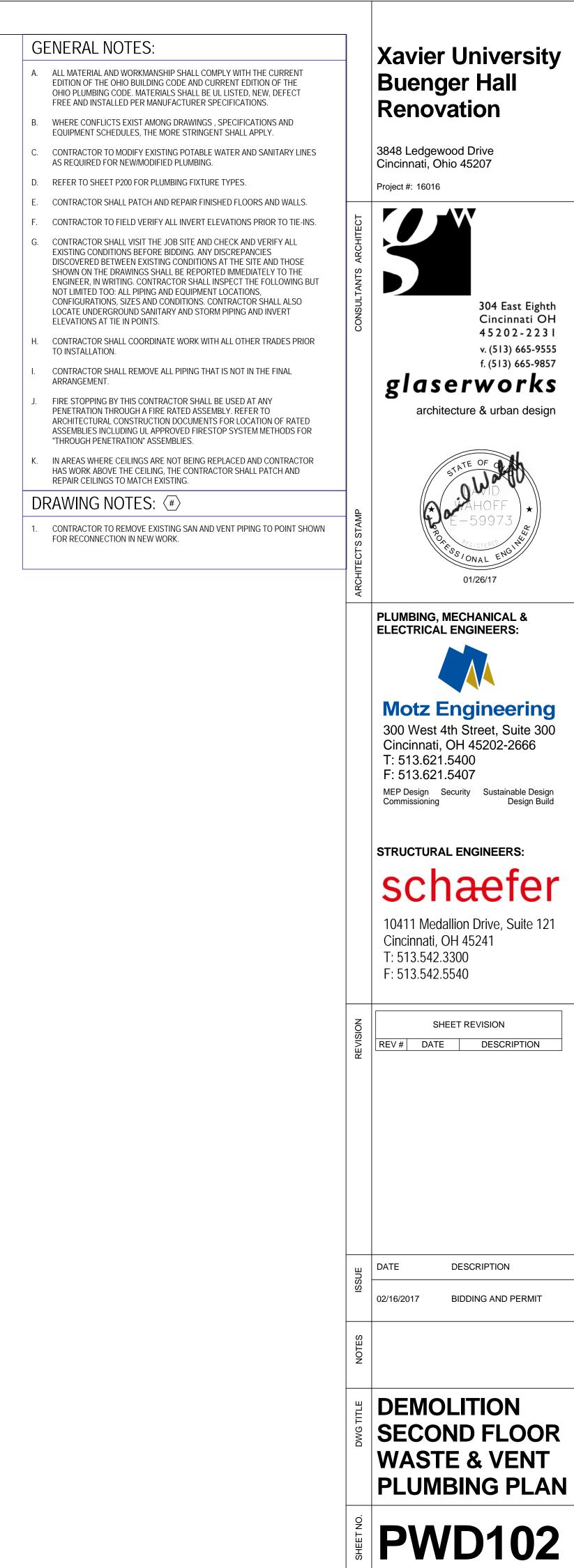


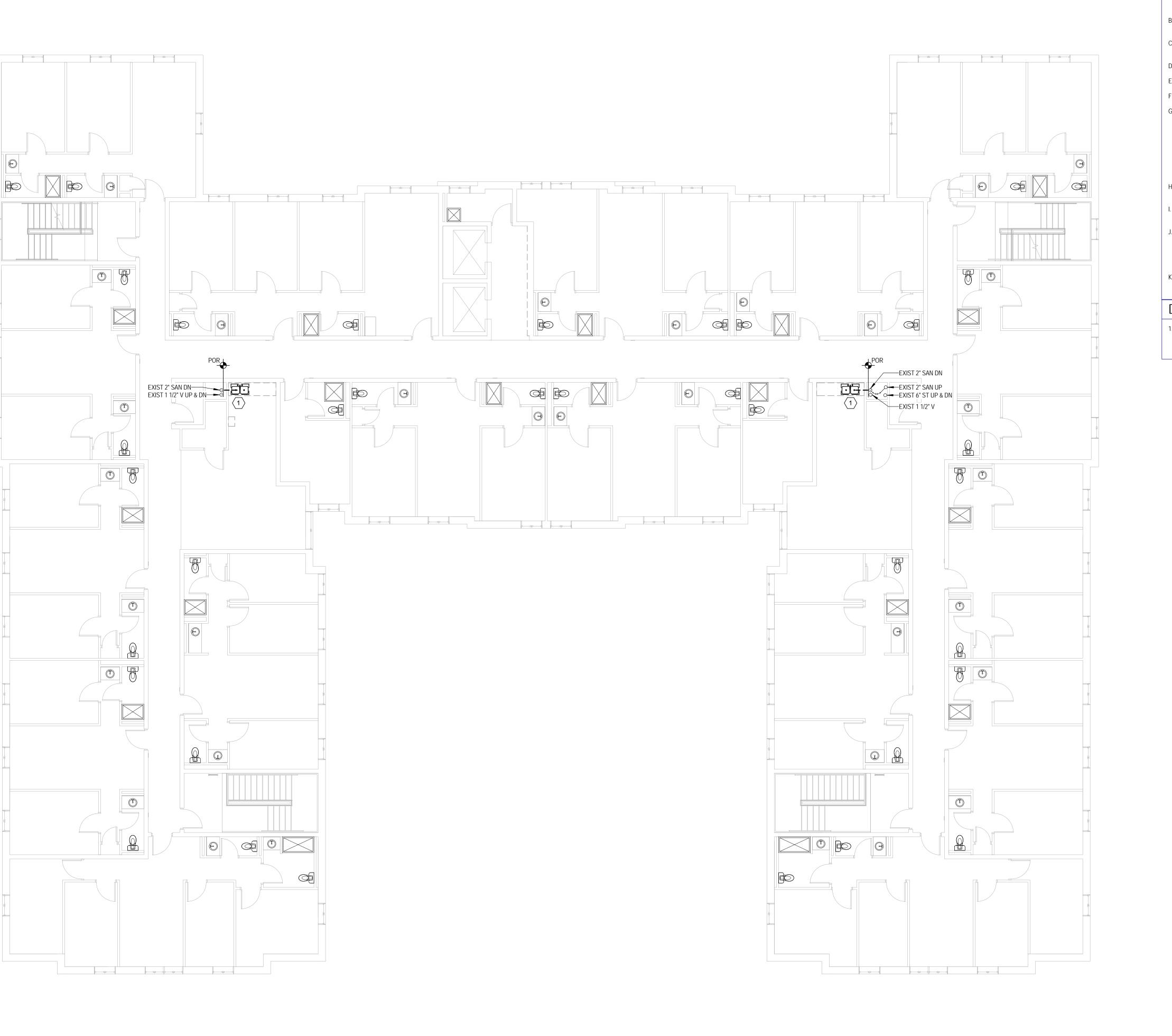
3848 Ledgewood Drive Cincinnati, Ohio 45207 Project #: 16016

304 East Eighth Cincinnati OH 45202-2231 v. (513) 665-9555 f. (513) 665-9857 glaserworks architecture & urban design 01/26/17 PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS: **Motz Engineering** 300 West 4th Street, Suite 300 Cincinnati, OH 45202-2666 T: 513.621.5400 F: 513.621.5407 MEP Design Security Sustainable Design Commissioning Design Build Commissioning STRUCTURAL ENGINEERS: schæfer 10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 T: 513.542.3300 F: 513.542.5540 SHEET REVISION REV # DATE DESCRIPTION DESCRIPTION DATE BIDDING AND PERMIT 02/16/2017 DEMOLITION **FIRST FLOOR** WASTE & VENT PLUMBING PLAN **PWD101**









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DRAWING NOTES: (#)

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Xavier University Buenger Hall Renovation

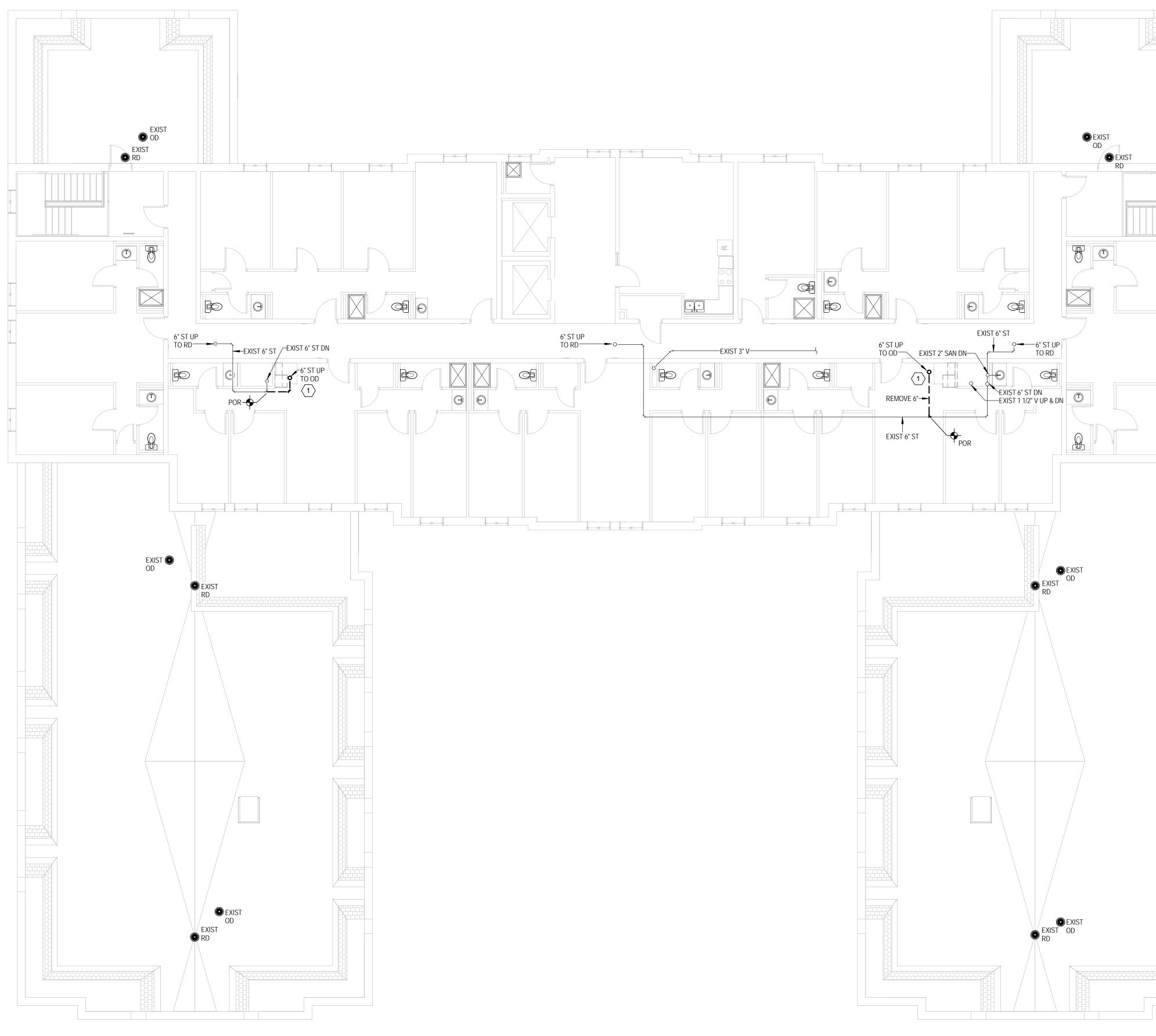
3848 Ledgewood Drive Cincinnati, Ohio 45207 Project #: 16016

304 East Eighth Cincinnati OH 45202-223I v. (513) 665-9555 f. (513) 665-9857 glaserworks architecture & urban design 01/26/17 PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS: **Motz Engineering** 300 West 4th Street, Suite 300 Cincinnati, OH 45202-2666 T: 513.621.5400 F: 513.621.5407 MEP Design Security Sustainable Design Commissioning Design Build STRUCTURAL ENGINEERS: schæfer 10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 T: 513.542.3300 F: 513.542.5540 SHEET REVISION REV # DATE DESCRIPTION DATE DESCRIPTION BIDDING AND PERMIT 02/16/2017

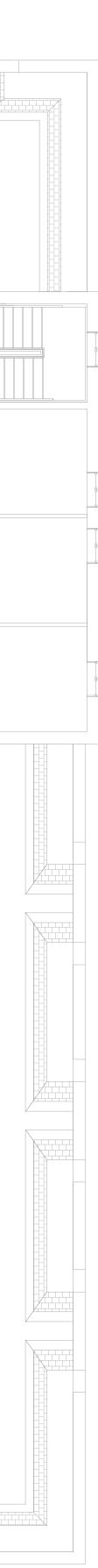
DEMOLITION THIRD FLOOR WASTE & VENT PLUMBING PLAN

PWD103

PRINT DATE: 2/15/2017 7:50:43 PM







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- C. CONTRACTOR TO MODIFY EXISTING POTABLE WATER AND SANITARY LINES AS REQUIRED FOR NEW/MODIFIED PLUMBING.
- D. REFER TO SHEET P200 FOR PLUMBING FIXTURE TYPES.
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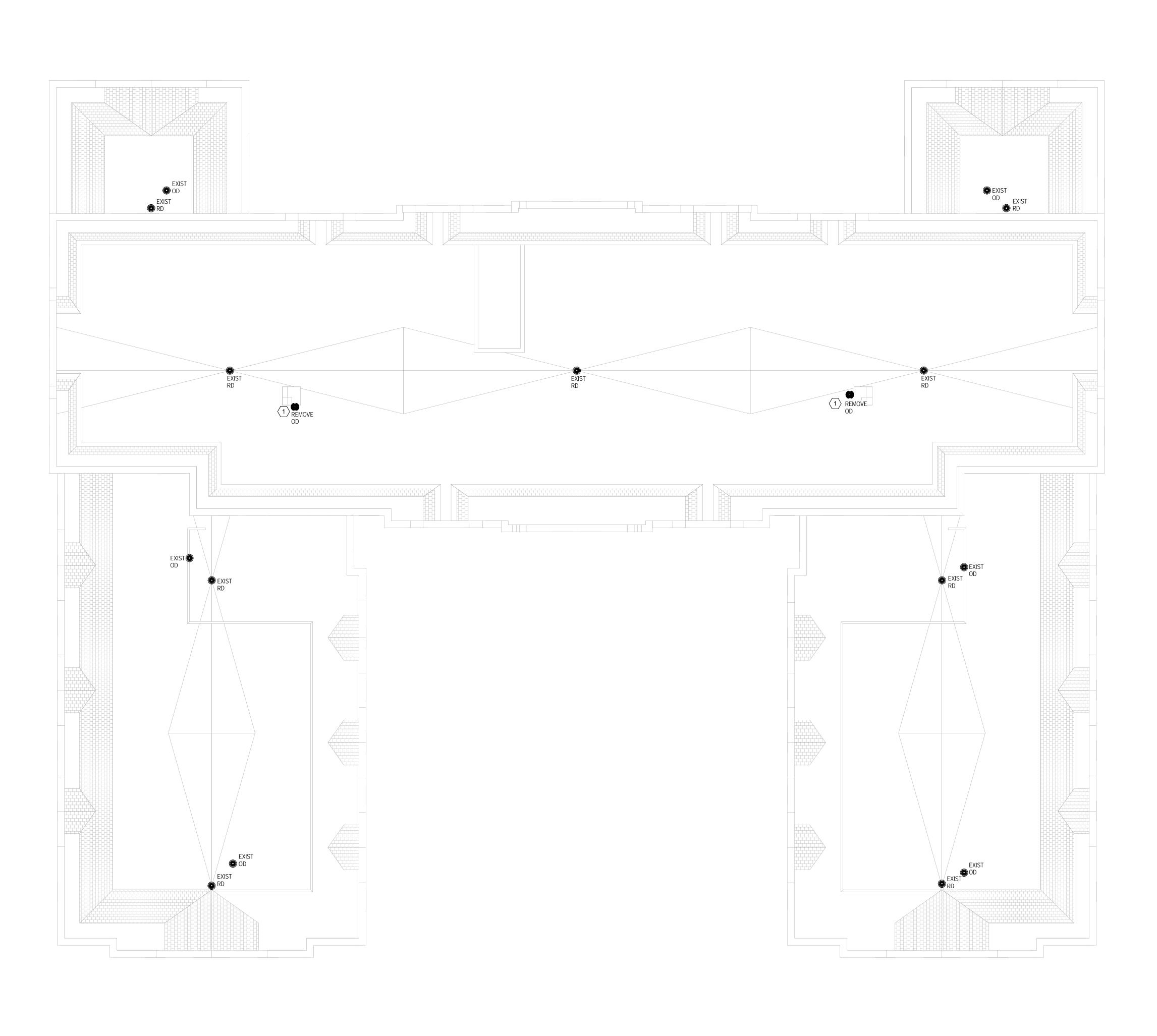
DRAWING NOTES: $\langle \# \rangle$

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Xavier University Buenger Hall Renovation

3848 Ledgewood Drive Cincinnati, Ohio 45207





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PLAN

DESCRIPTION

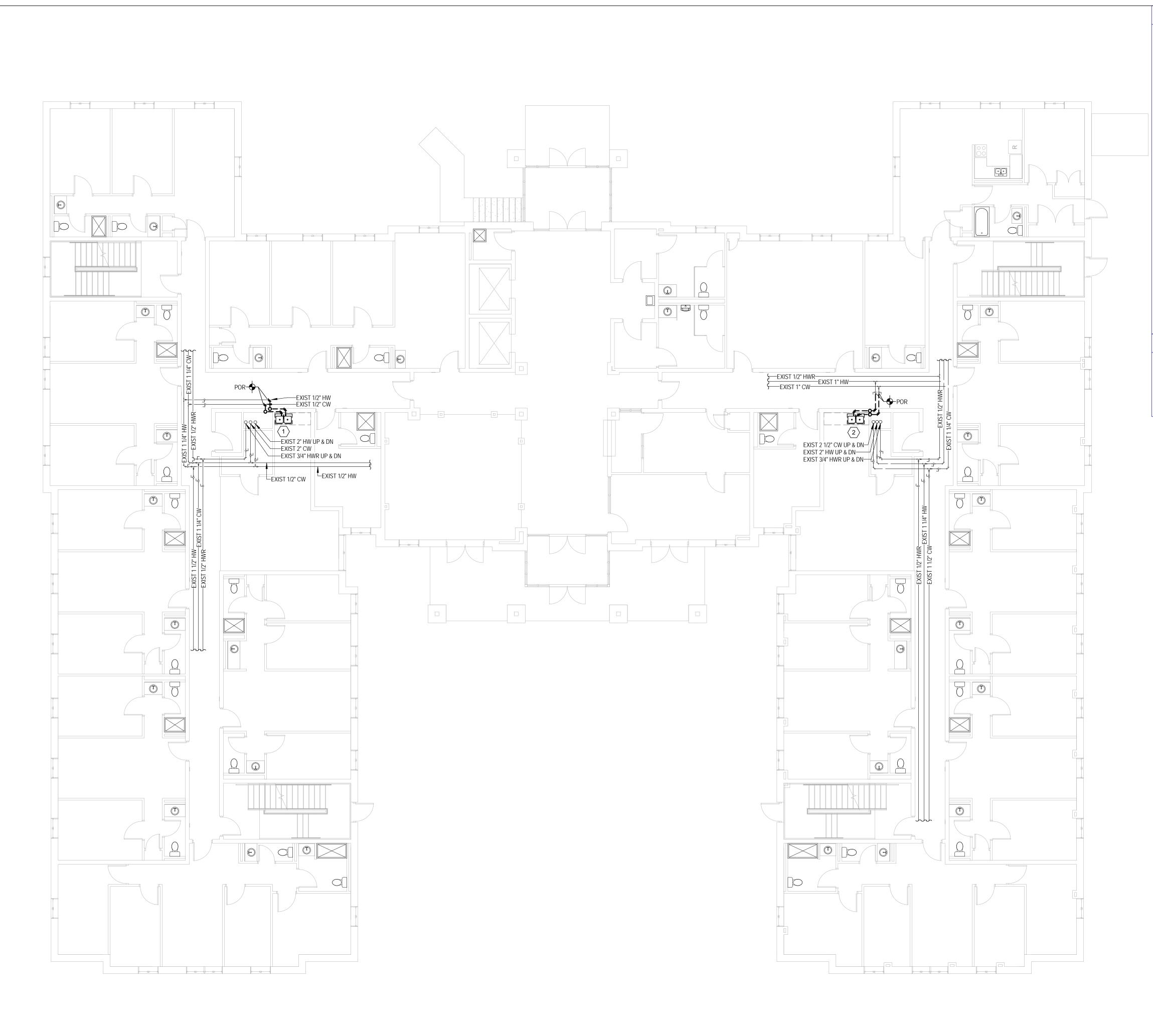
DEMOLITION

ROOF WASTE &

VENT PLUMBING

PWD105

BIDDING AND PERMIT



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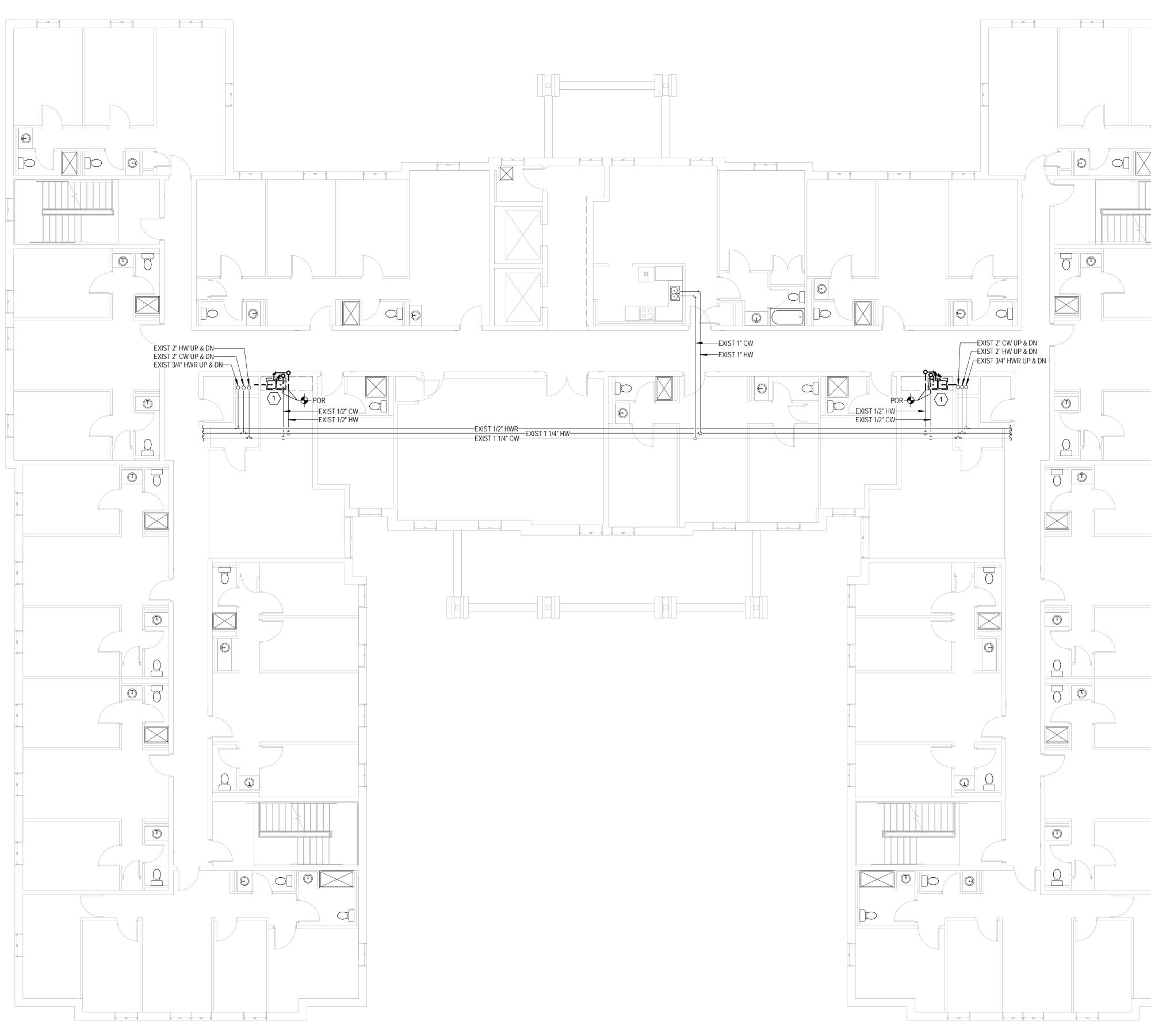
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3848 Ledgewood Drive Cincinnati, Ohio 45207









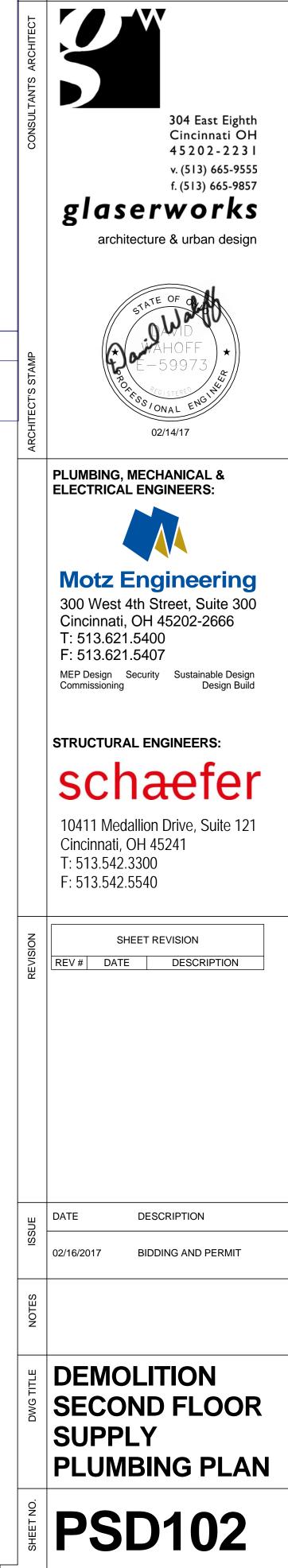
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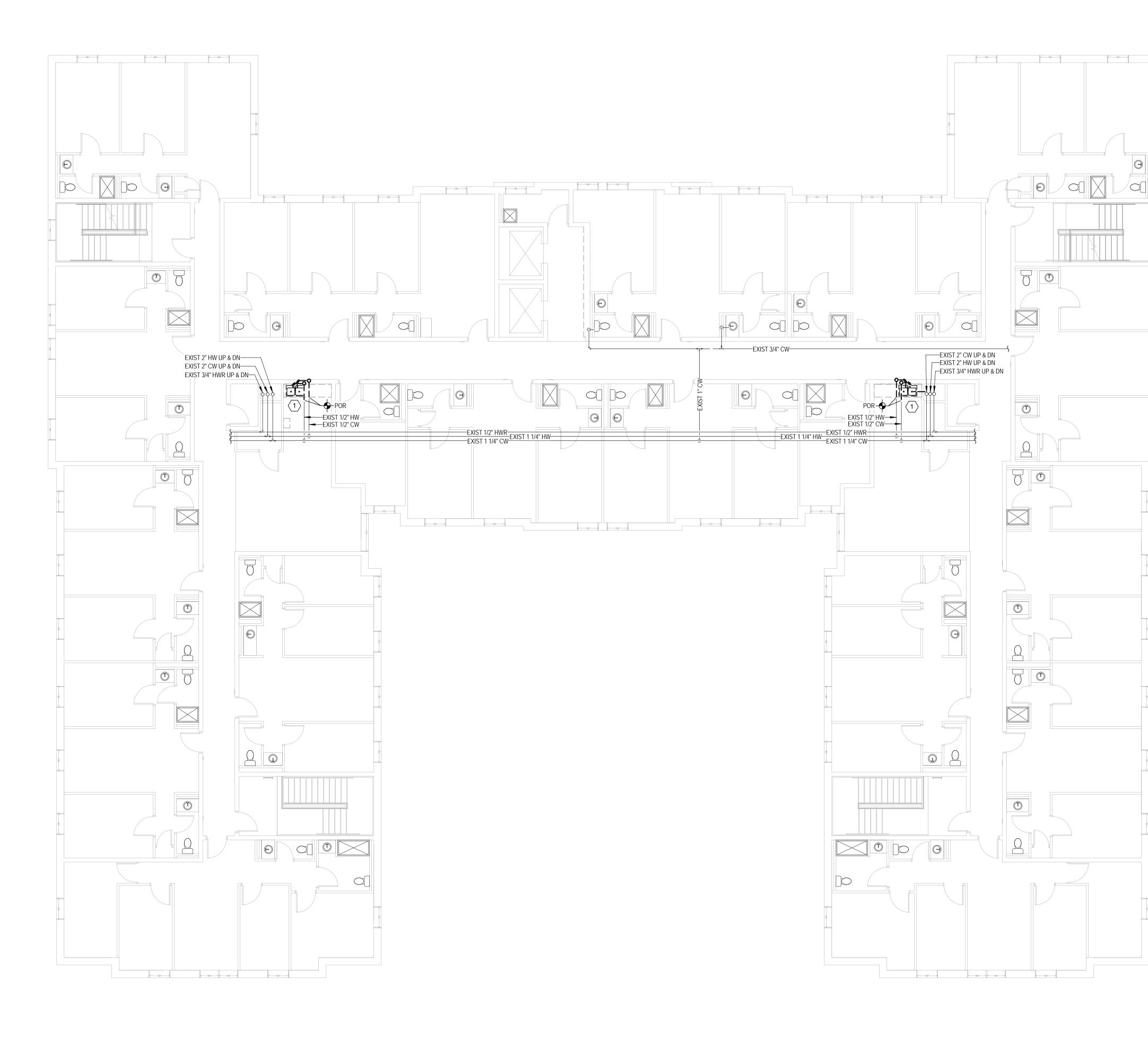
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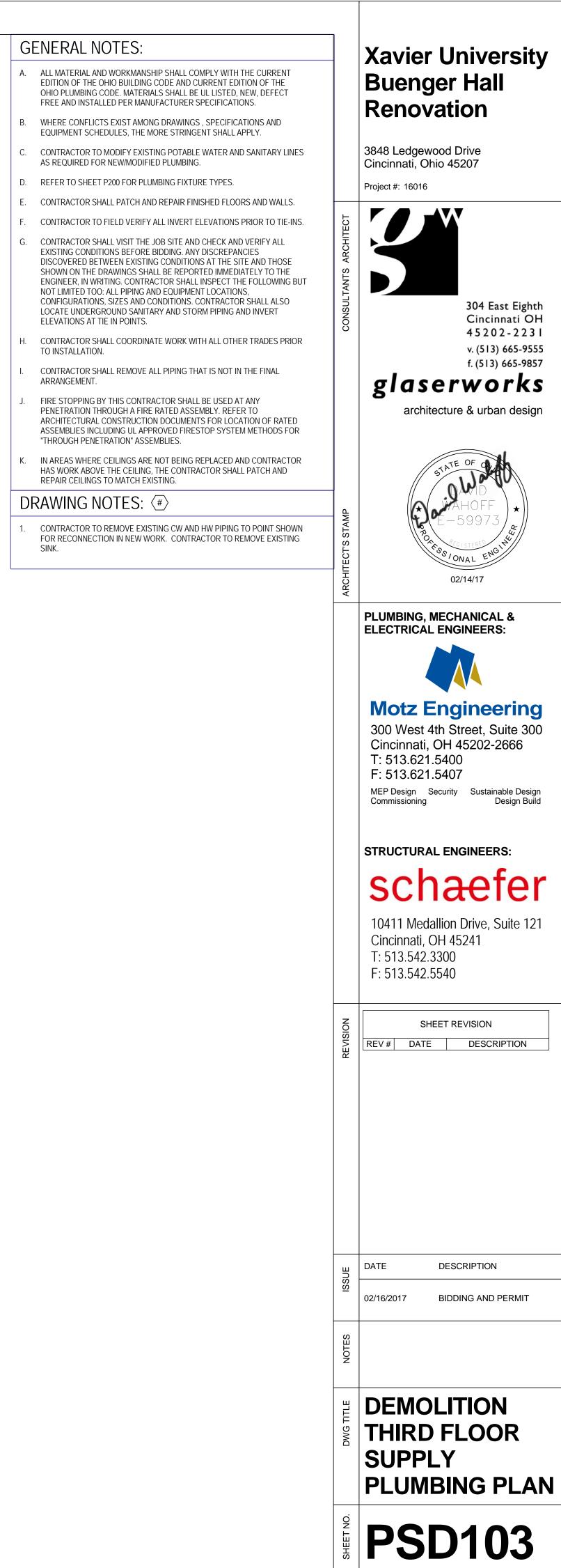
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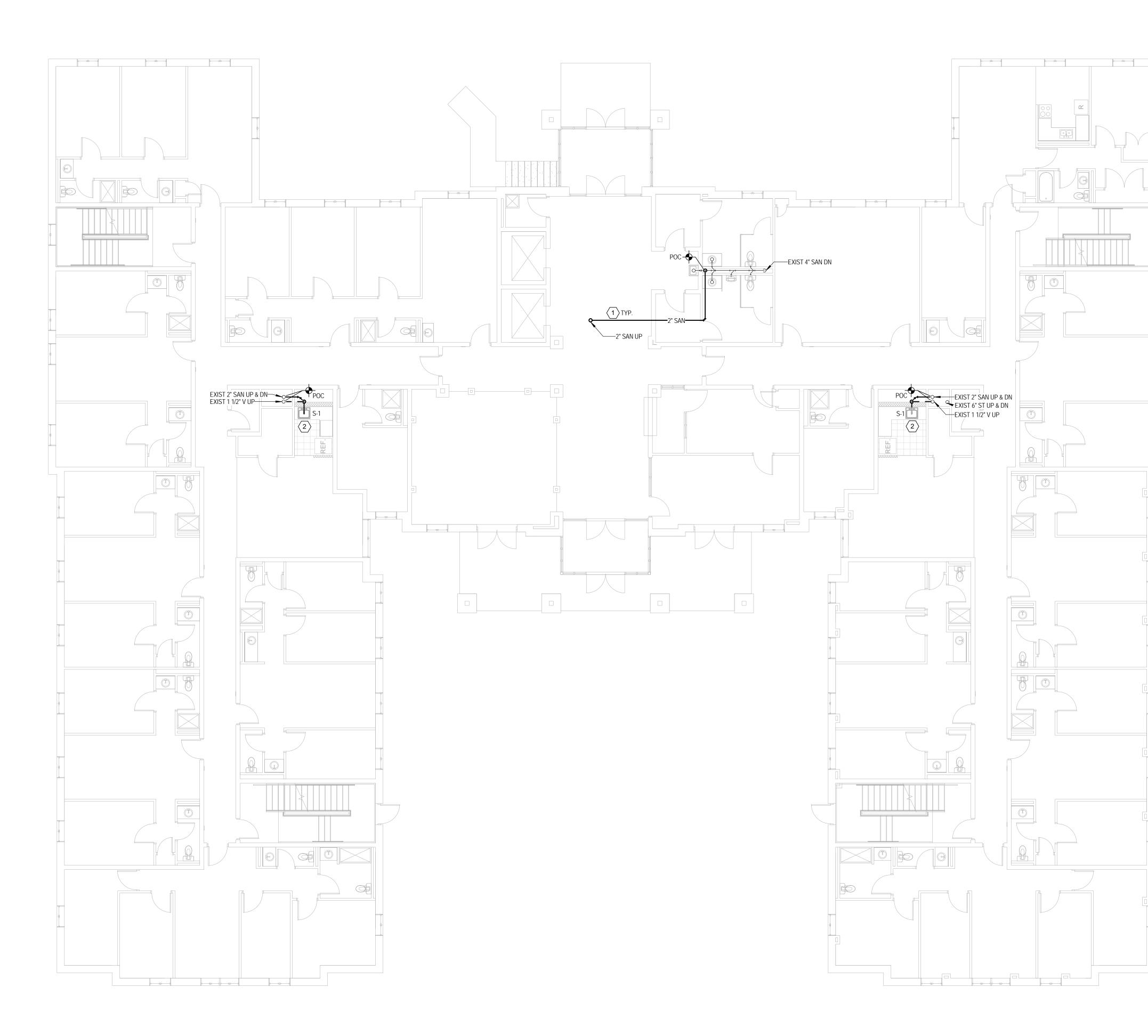


3848 Ledgewood Drive Cincinnati, Ohio 45207 Project #: 16016













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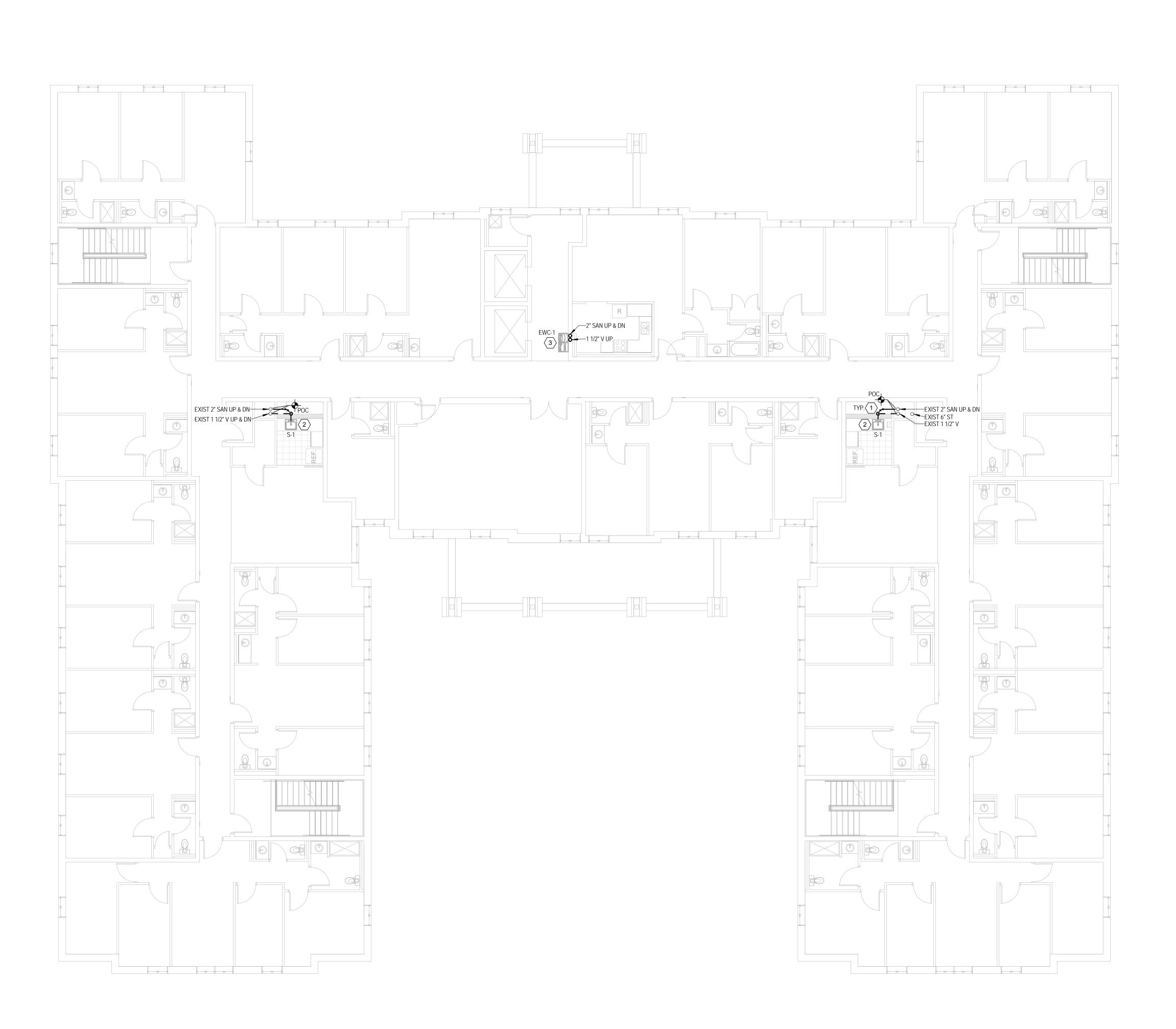
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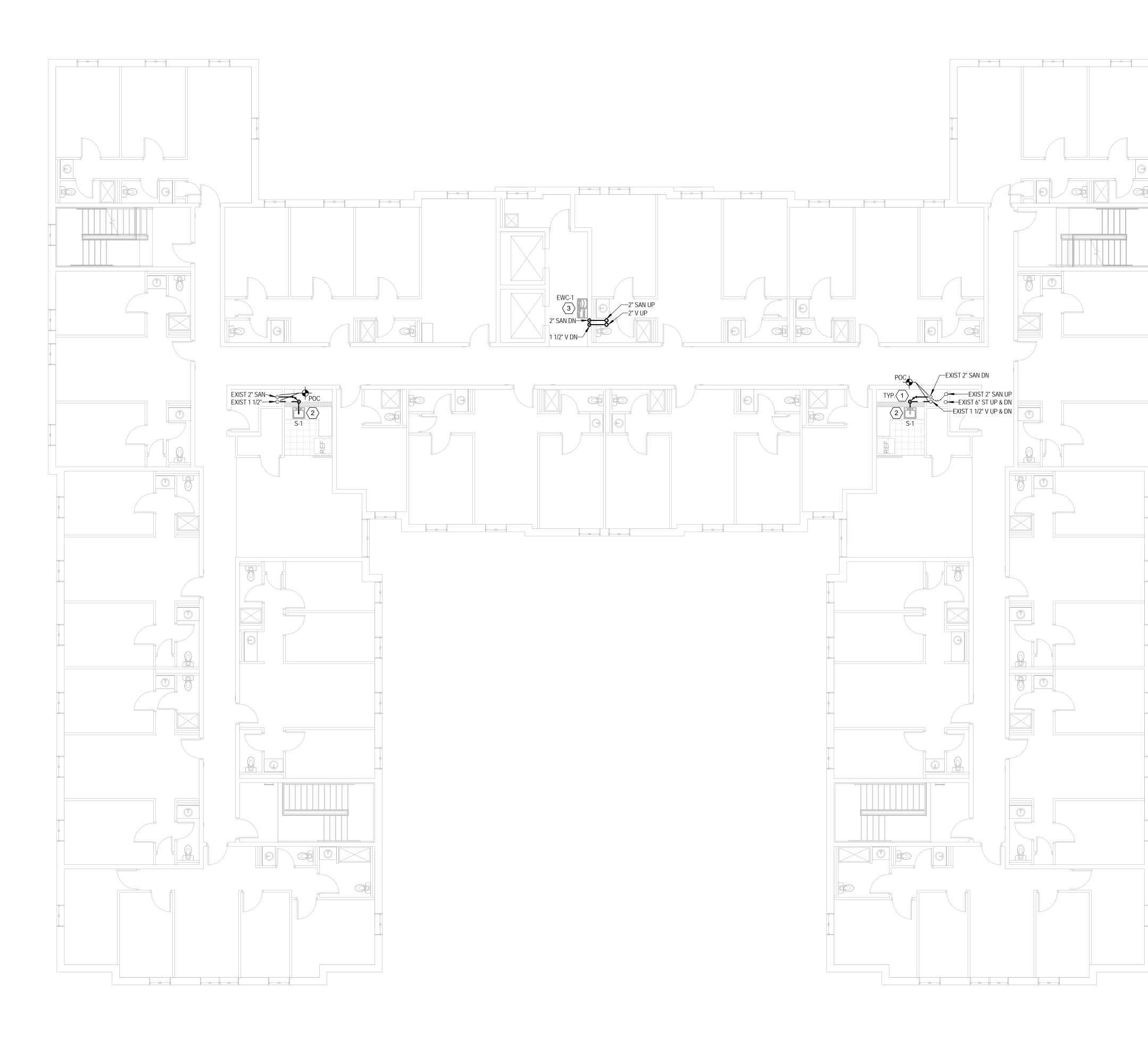
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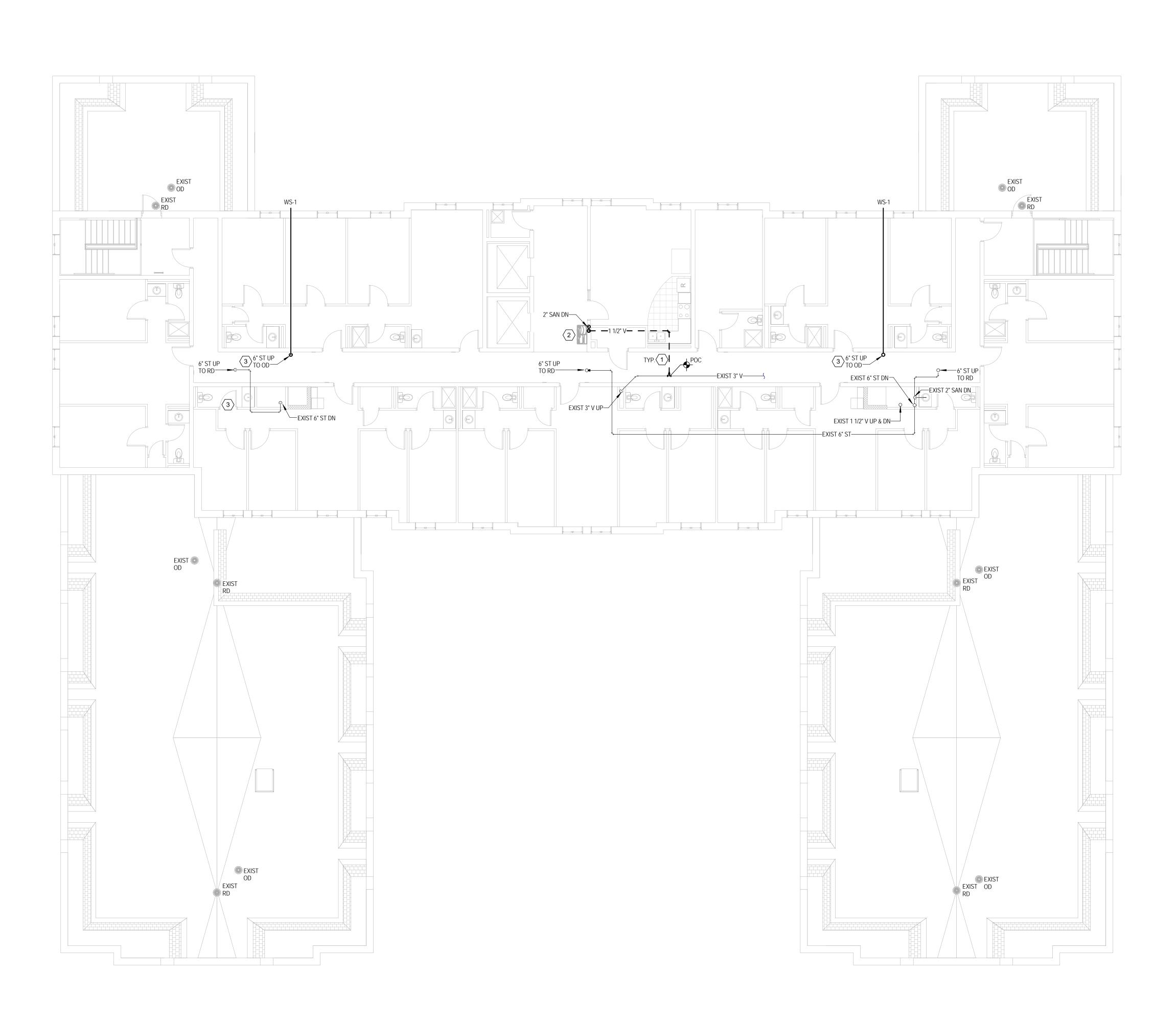
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PW103





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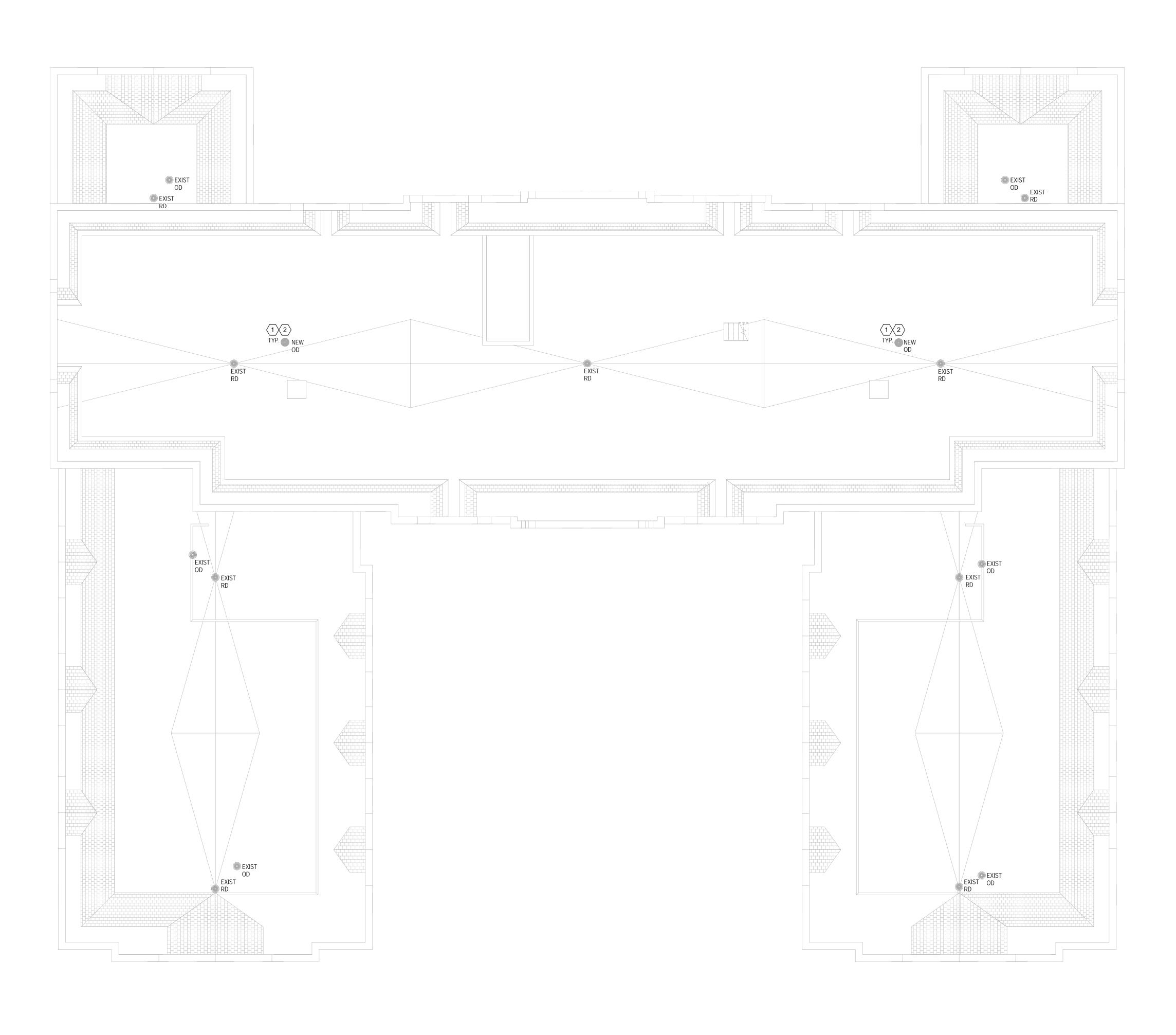
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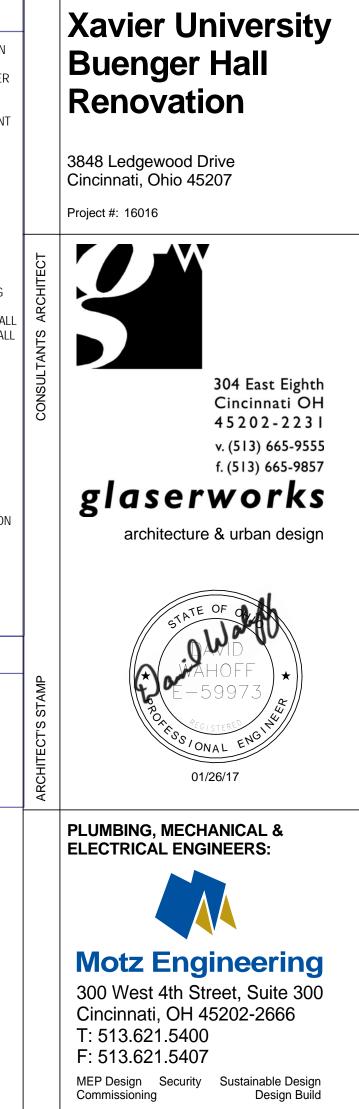




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STRUCTURAL ENGINEERS:

schæfer

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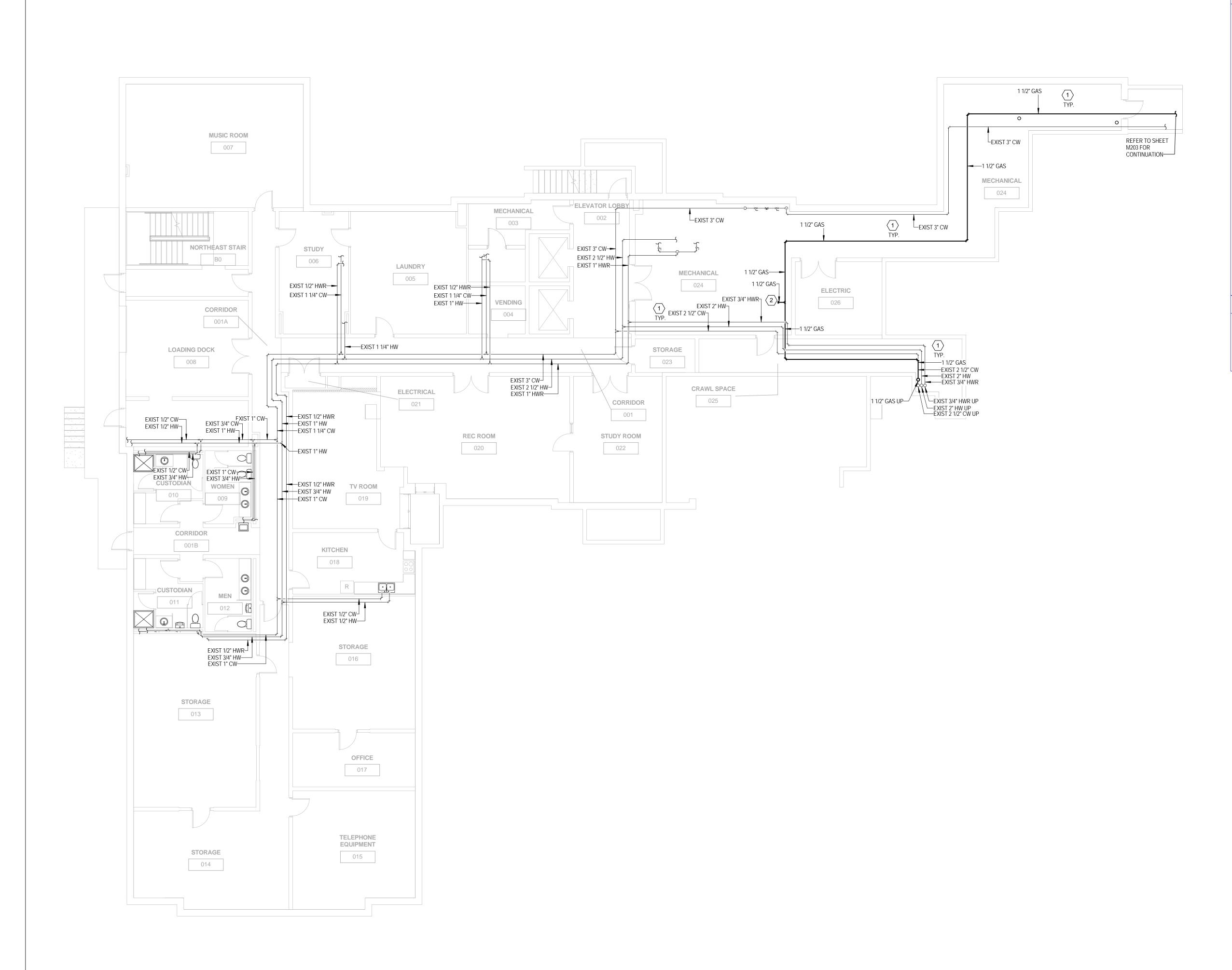
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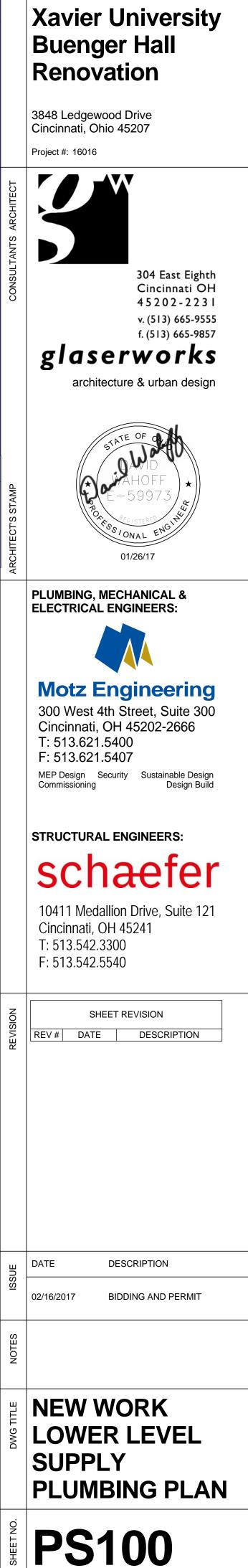


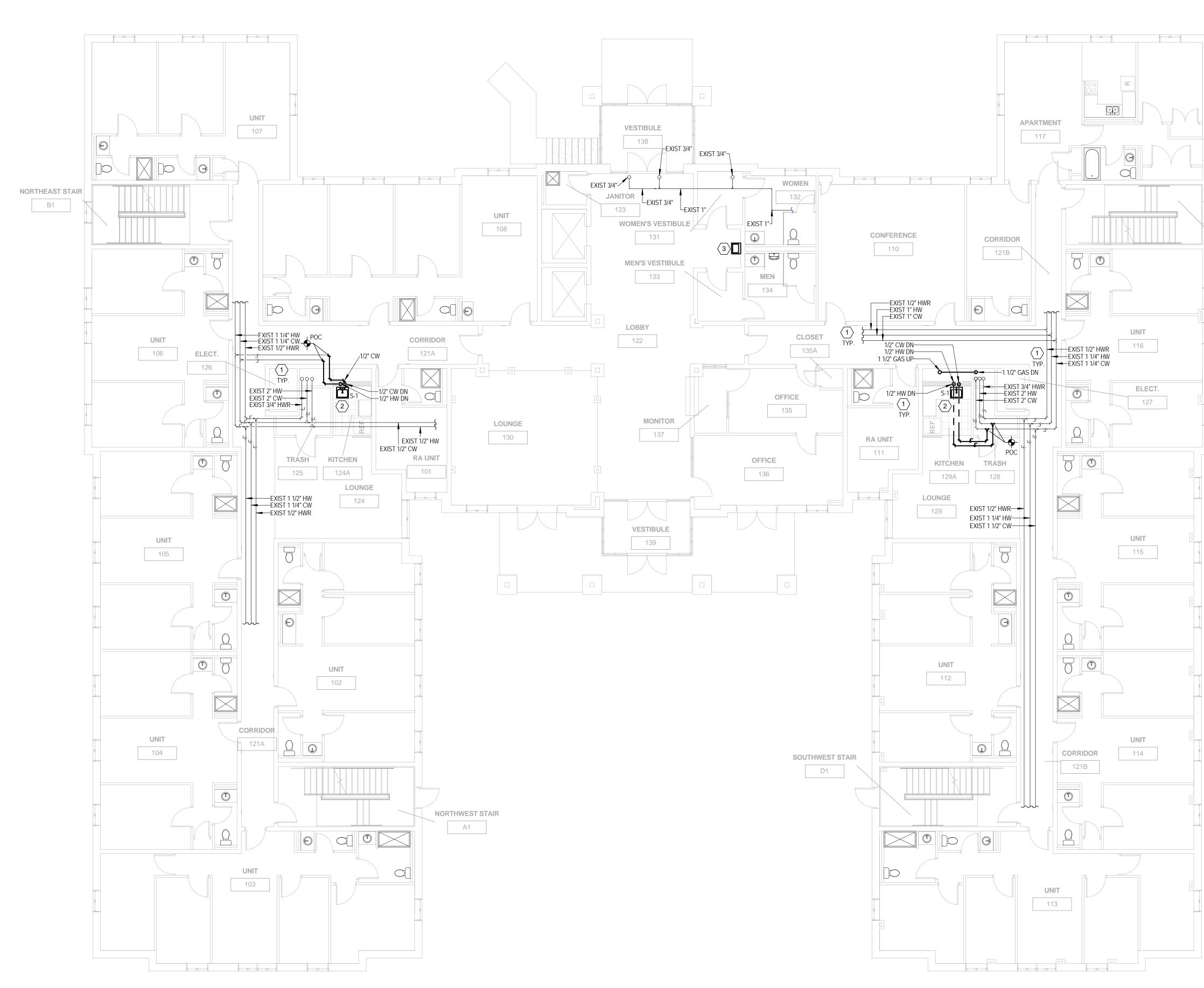


- A. ALL MATERIAL AND WORKMANSHIP SHALL COMPLY WITH THE CURRENT EDITION OF THE OHIO BUILDING CODE AND CURRENT EDITION OF THE OHIO PLUMBING CODE. MATERIALS SHALL BE UL LISTED, NEW, DEFECT FREE AND INSTALLED PER MANUFACTURER SPECIFICATIONS.
- B. WHERE CONFLICTS EXIST AMONG DRAWINGS , SPECIFICATIONS AND EQUIPMENT SCHEDULES, THE MORE STRINGENT SHALL APPLY. CONTRACTOR TO MODIFY EXISTING POTABLE WATER AND SANITARY LINES AS
- REQUIRED FOR NEW/MODIFIED PLUMBING.
- D. REFER TO SHEET P200 FOR PLUMBING FIXTURE TYPES.
- E. CONTRACTOR SHALL PATCH AND REPAIR FINISHED FLOORS AND WALLS.
- F. CONTRACTOR TO FIELD VERIFY ALL INVERT ELEVATIONS PRIOR TO TIE-INS. G. CONTRACTOR SHALL VISIT THE JOB SITE AND CHECK AND VERIFY ALL EXISTING CONDITIONS BEFORE BIDDING. ANY DISCREPANCIES DISCOVERED BETWEEN EXISTING CONDITIONS AT THE SITE AND THOSE SHOWN ON THE DRAWINGS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER, IN WRITING. CONTRACTOR SHALL INSPECT THE FOLLOWING BUT NOT LIMITED TOO: ALL PIPING AND EQUIPMENT LOCATIONS, CONFIGURATIONS, SIZES AND CONDITIONS. CONTRACTOR SHALL ALSO LOCATE UNDERGROUND SANITARY AND STORM PIPING AND INVERT ELEVATIONS AT TIE IN POINTS.
- CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
- CONTRACTOR SHALL REMOVE ALL PIPING THAT IS NOT IN THE FINAL ARRANGEMENT.
- FIRE STOPPING BY THIS CONTRACTOR SHALL BE USED AT ANY PENETRATION THROUGH A FIRE RATED ASSEMBLY. REFER TO ARCHITECTURAL CONSTRUCTION DOCUMENTS FOR LOCATION OF RATED ASSEMBLIES INCLUDING UL APPROVED FIRESTOP SYSTEM METHODS FOR "THROUGH PENETRATION" ASSEMBLIES.
- IN AREAS WHERE CEILINGS ARE NOT BEING REPLACED AND CONTRACTOR HAS WORK ABOVE THE CEILING, THE CONTRACTOR SHALL PATCH AND REPAIR CEILINGS TO MATCH EXISTING.

DRAWING NOTES: 🕢

- 1. PLUMBING CONTRACTOR TO REVIEW HVAC DRAWINGS AND COORDINATE WITH MECHANICAL CONTRACTOR FOR PIPING CONFLICTS. CONTRACTOR TO RELOCATE AND/OR REWORK PIPING AS REQUIRED TO ACCOMODATE HVAC INSTALLATION.
- CONTRACTOR TO PROVIDE NEW TEE OFF GAS LINE AND CAP FOR FUTURE EXTENSION.









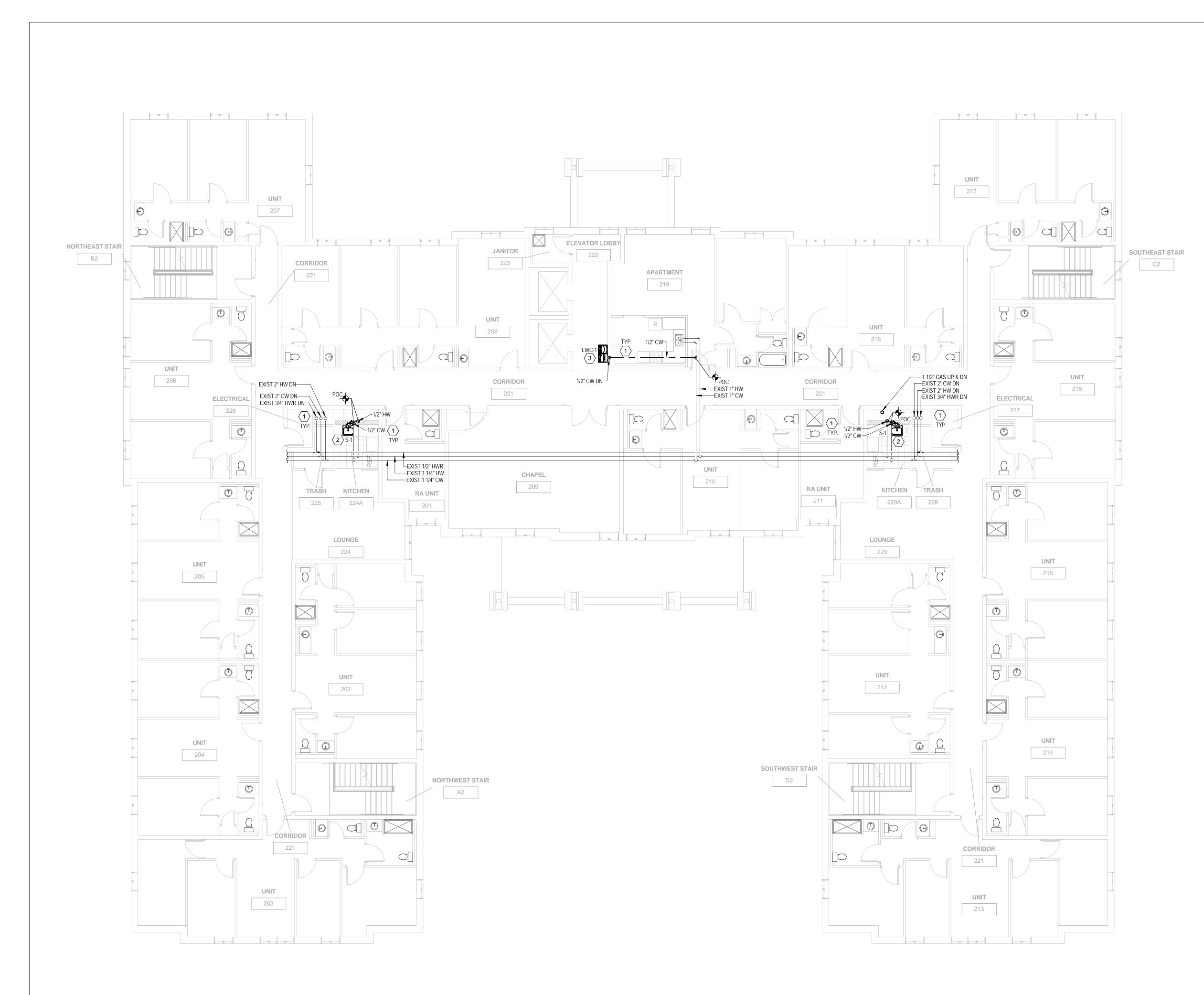
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- CONTRACTOR TO RETROFIT EXISTING DUAL HEIGHT ELECTRIC WATER COOLER WITH NEW BOTTLE FILLER.



G ALL ALL	CONSULTANTS ARCHITECT	304 East Eighth
ON	CON	Cincinnati OH 45202-2231 v. (513) 665-9555 f. (513) 665-9857 glaserworks architecture & urban design
)	ARCHITECT'S STAMP	STATE OF
		PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS:
		Motz Engineering 300 West 4th Street, Suite 300 Cincinnati, OH 45202-2666 T: 513.621.5400 F: 513.621.5407 MEP Design Security Sustainable Design Commissioning Security Design Build
		STRUCTURAL ENGINEERS: Schaefer 10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 T: 513.542.3300 F: 513.542.5540
	REVISION	SHEET REVISION REV # DATE DESCRIPTION
	ISSUE	DATE DESCRIPTION 02/16/2017 BIDDING AND PERMIT
	NOTES	
	DWG TITLE	NEW WORK FIRST FLOOR SUPPLY PLUMBING PLAN
1	SHEET NO.	PS101

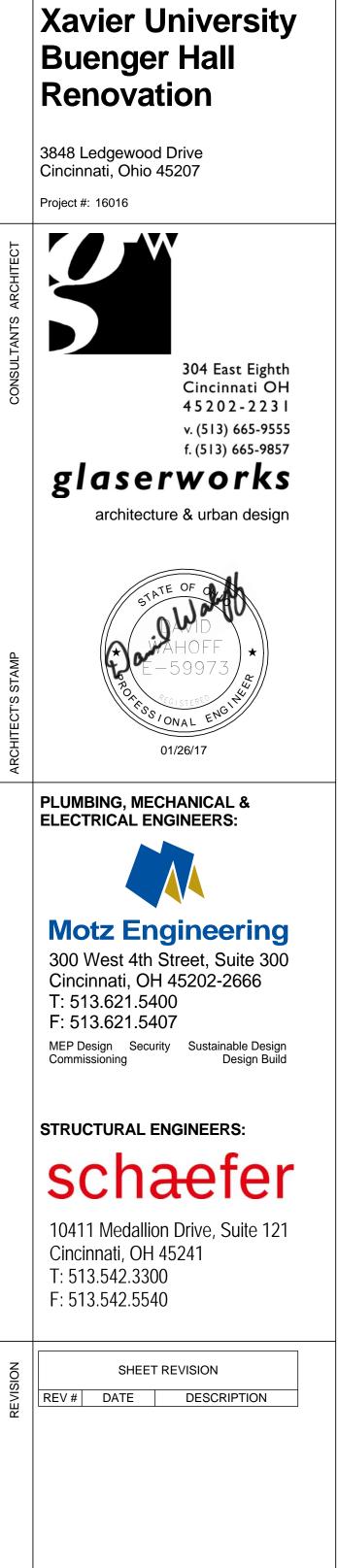




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DESCRIPTION

NEW WORK

PS102

SUPPLY

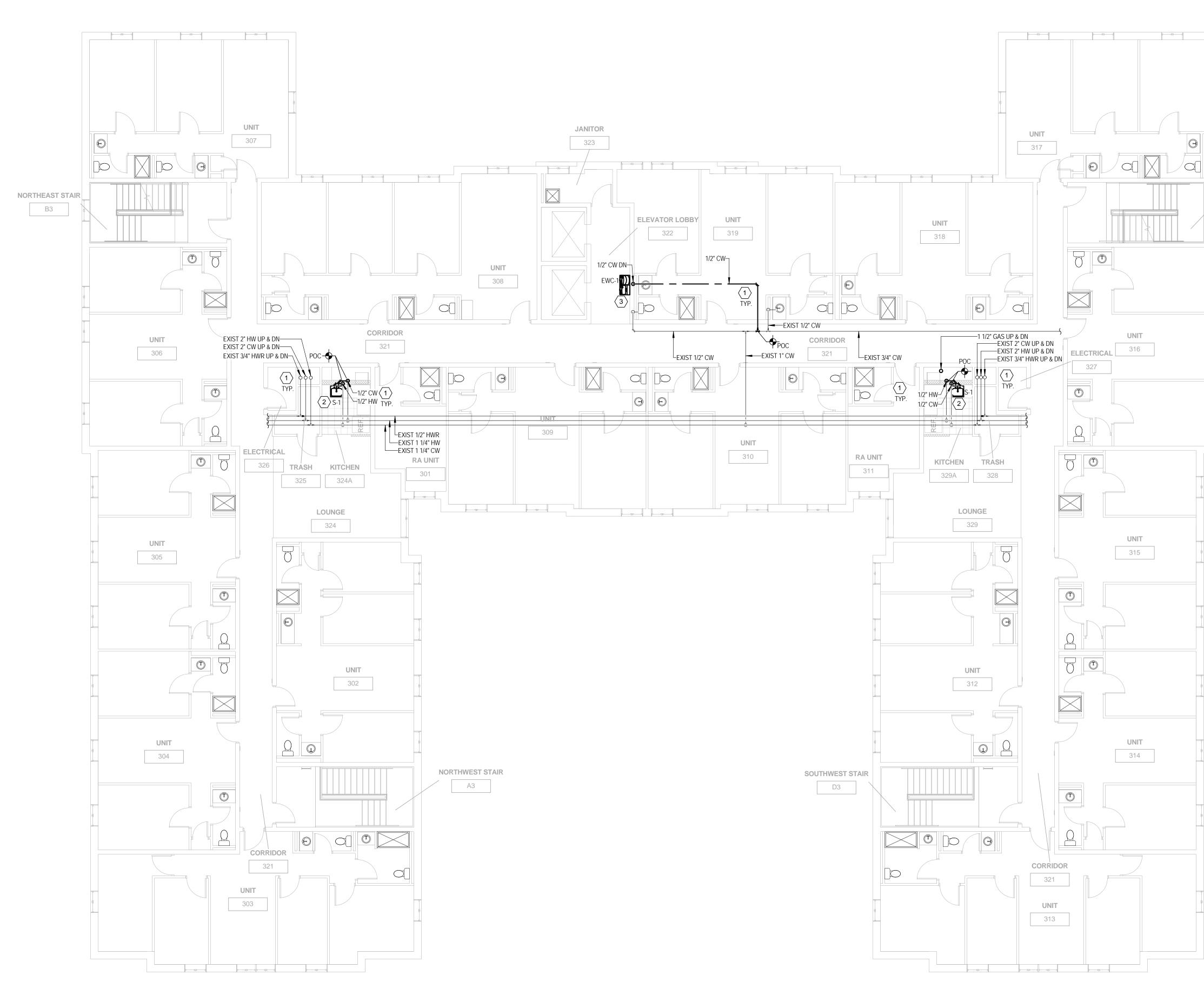
SECOND FLOOR

PLUMBING PLAN

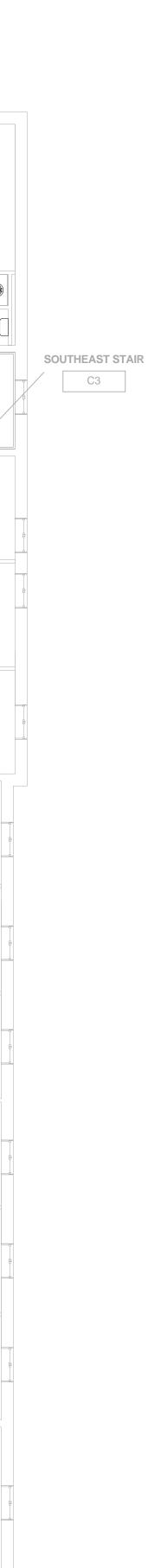
BIDDING AND PERMIT

DATE

02/16/2017







C3

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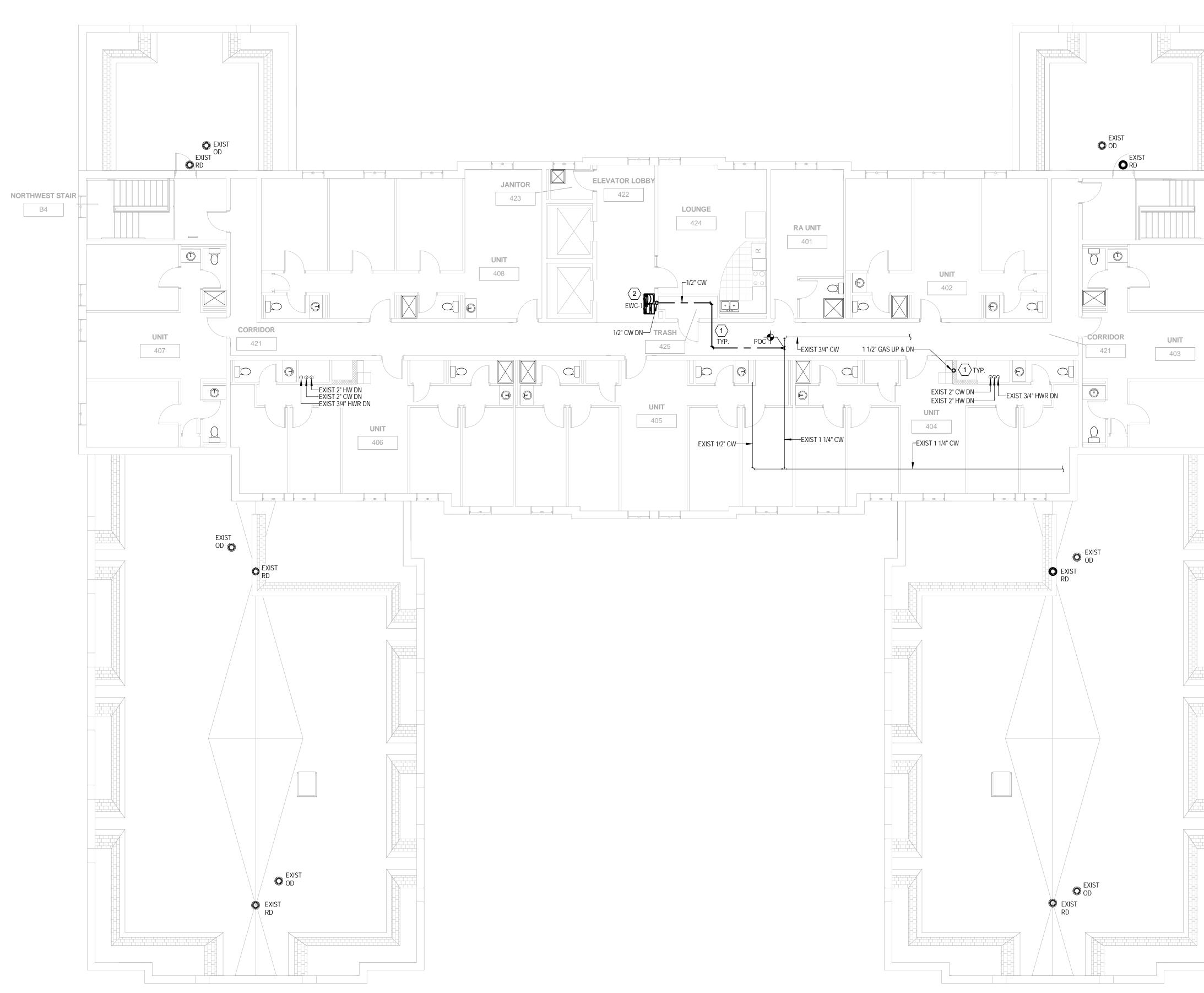
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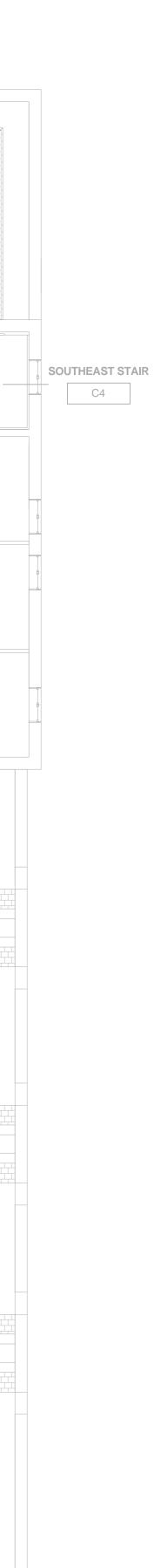


3848 Ledgewood Drive Cincinnati, Ohio 45207









C4

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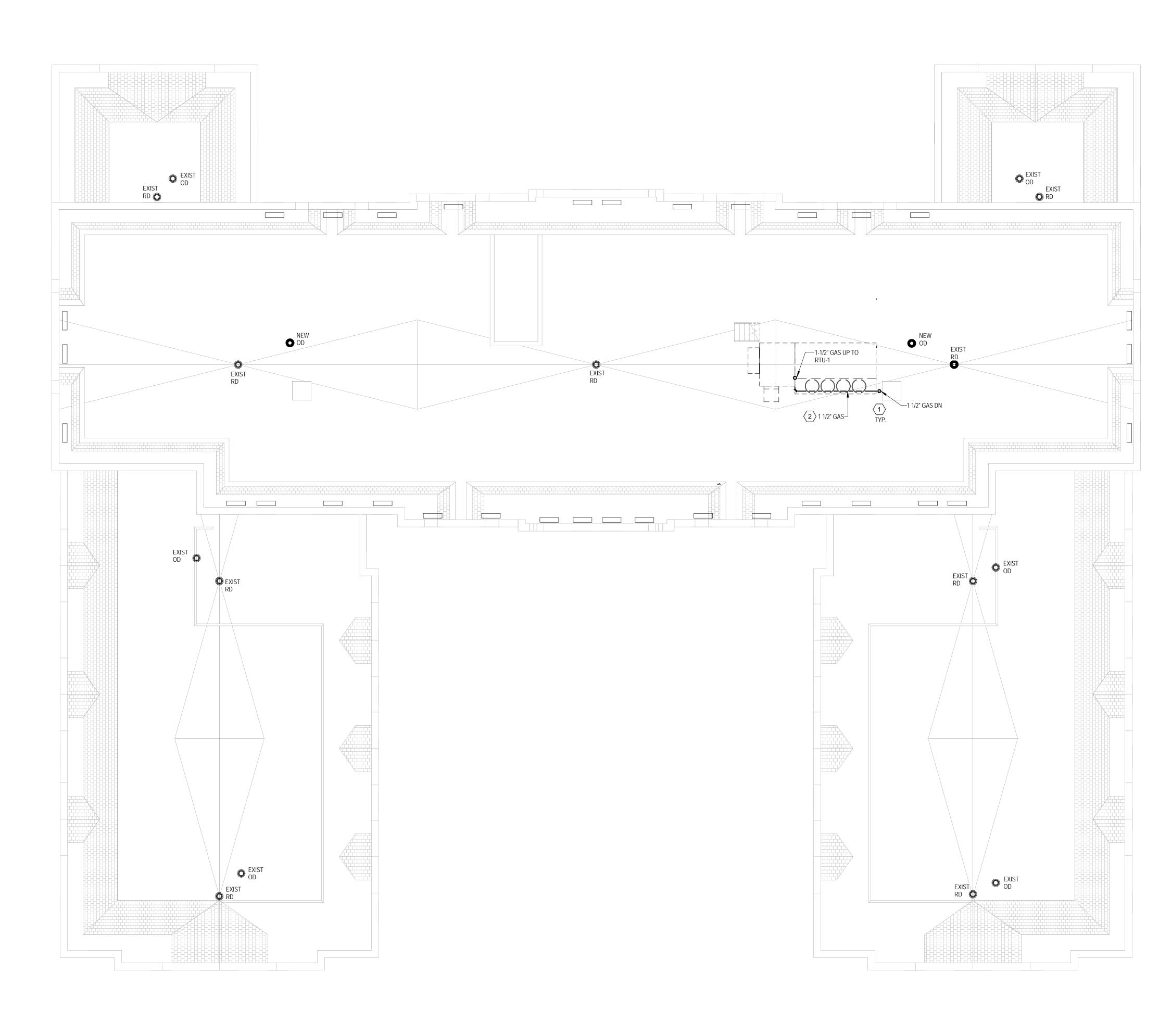
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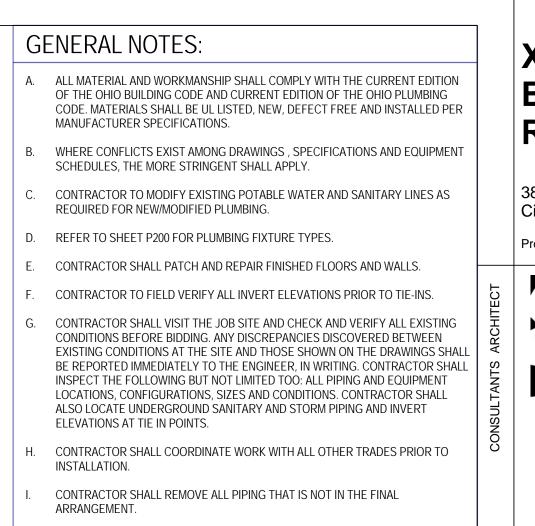
Xavier University Buenger Hall Renovation

3848 Ledgewood Drive Cincinnati, Ohio 45207









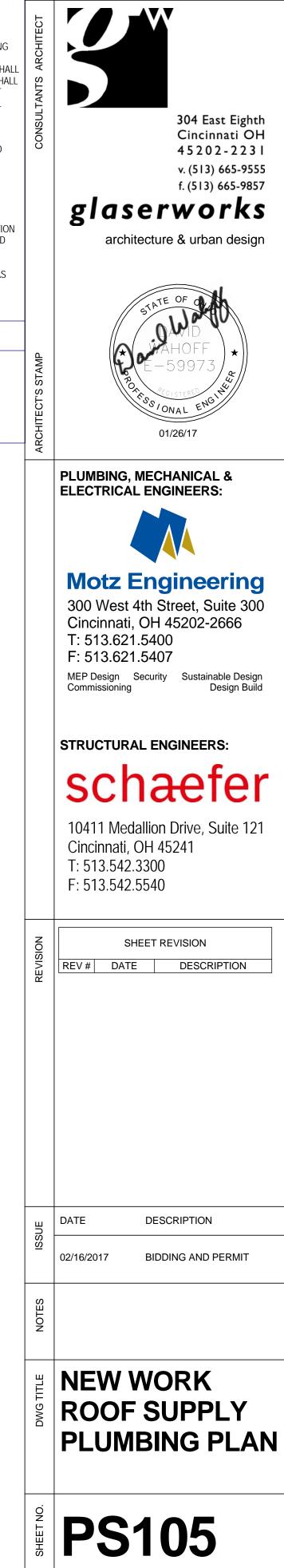
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- CONTRACTOR TO EXTEND NEW GAS LINE TO NEW RTU-1 ON ROOF. COORINDATE INSTALLATION WITH MECHANICAL CONTRACTOR.



3848 Ledgewood Drive Cincinnati, Ohio 45207



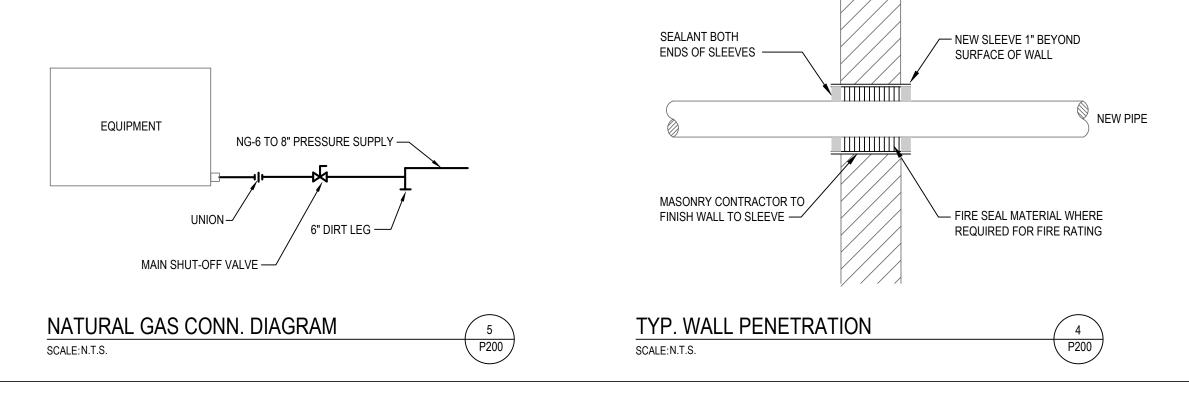
GENERAL ARREVIATIONS

GENE	ERAL ABBRE	VIATIC	DNS									PLU	MBING SYMBC)LS
AD	AREA DRAIN	CU IN	CUBIC INCH	FPC	FIRE PROTECTION	KW	KITCHEN WASTE	PRV	PRESSURE REDUCING	SW	SOFT WATER		GAS REGULATING VALVE	0 00
AFF	ABOVE FINISHED FLOOR	CW	DOMESTIC COLD WATER		CONTRACTOR	LA	LAVATORY		VALVE	TD	TRENCH DRAIN	×	GAS REGULATING VALVE	00
ALT	ALTERNATE	DET	DETAIL	FS	FLOOR SINK	LB	POUND	PS	PRESSURE SWITCH	TMV	THERMOSTATIC MIXING	Φ	BALL VALVE	0—
ANT	ACID NEUTRALIZING TANK	DF	DRINKING FOUNTAIN	FU	FIXTURE UNIT	LW	LAB WASTE	PSI	POUND PER SQUARE INCH		VALVE	Ť.		•
AP	ACCESS PANEL	DIA	DIAMETER	GA	GAUGE	MAX	MAXIMUM	PVC	POLYVINYL CHLORIDE	TP	TRAP PRIMER	\sim	CHECK VALVE	—G—
APPROX	APPROXIMATE	DN	DOWN	GALV	GALVANIZED	MBH	BTU'S PER HOUR, THOUSAND	RP	RECIRCULATION PUMP	TYP	TYPICAL	内	GATE VALVE	C—
ARCH	ARCHITECT(URAL)	DR	DRAIN	GC	GENERAL CONTRACTOR	MC	MECHANICAL CONTRACTOR	RD	ROOF DRAIN	TW	TEMPERED WATER		GATE VALVE	<u> </u>
AUTO	AUTOMATIC	DS	DOWNSPOUT	GCO	GRADE CLEANOUT	MECH	MECHANICAL	REF	REFERENCE	UG,UDG	UNDERGROUND		BUTTERFLY VALVE	
AVG	AVERAGE	DB	DOWNSPOUT BOOT	GPH	GALLONS PER HOUR	MFG/MFGR	MANUFACTURER	REQ'D	REQUIRED	UON	UNLESS OTHERWISE NOTED	, .		
AW	ACID WASTE	DWG	DRAWING	GPM	GALLONS PER MINUTE	MH	MANHOLE	REV	REVISE(D) (ION)	UNO	UNLESS NOTED OTHERWISE	\bowtie	GAS SHUT-OFF VALVE	$^{\rm WH}$ +
В	BUBBLER	EA	EACH	GW	GREASE WASTE	MIN	MINIMUM	HYD	HYDRANT	UR	URINAL	\bigtriangledown	PRESSURE REDUCER	<u>_</u> †
BE	BOTTOM ELEVATION	EC	ELECTRICAL CONTRACTOR	HB	HOSE BIBB	MISC	MISCELLANEOUS	RM	ROOM	V	SANITARY VENT			HB .
BFP	BACKFLOW PREVENTER	ECO	EXTERIOR CLEANOUT	HD	HUB DRAIN	MS	MOP SINK	RPM	REVOLUTIONS PER MINUTE	VAC	VACUUM	X	BALANCING VALVE	ر †
BLDG	BUILDING	EL	ELEVATION	HORIZ	HORIZONTAL	NA	NOT APPLICABLE	S	SINK	VCP	VITRIFIED CLAY PIPE			
BOP	BOTTOM OF PIPE	ELEC	ELECTRIC/ELECTRICAL	HR	HOUR	NC	NORMALLY CLOSED	SAN	SANITARY	VERT	VERTICAL	$\bowtie \checkmark \bowtie$	BACK FLOW PREVENTOR	VTR
вот	BOTTOM	EQ	EQUAL	HT	HEAT TRACE	NG	NATURAL GAS	SCHED	SCHEDULE	VOL	VOLUME		END CAP	• • • •
3P	BOOSTER PUMP	EQUIP	EQUIPMENT	HVAC	HEATING, VENTILATING AND	NIC	NOT IN CONTRACT	SECT	SECTION	VTR	VENT THROUGH ROOF		-	Г
BTU	BRITISH THERMAL UNIT	EQUIV	EQUIVALENT	AIR	CONDITIONING	NO	NORMALLY OPEN	SH	SHOWER	W	SANITARY WASTE		UNION	L.
BTUH	BTU'S PER HOUR	ES	EMERGENCY SHOWER	HW	DOMESTIC HOT WATER	NOM	NOMINAL	SHT	SHEET	W/	WITH	\triangleright	REDUCER	
3V	BALL VALVE	ES/EW	EMERGENCY SHOWER/EYE	HWR	DOMESTIC HOT WATER	NTS	NOT TO SCALE	SP	SUMP PUMP	W/O	WITHOUT		REDUCER	
BWV	BACKWATER VALVE		WASH		RETURN	OC	ON CENTER	SPEC	SPECIFICATIONS	WC	WATER CLOSET	Ofd	FLOOR DRAIN	(
CA	COMPRESSED AIR	ET	EXPANSION TANK	IE	INVERT ELEVATION	OD	OVERFLOW DRAIN	SQ	SQUARE	WG	WATER GAUGE	. –		
СВ	CATCH BASIN	EW	EYE WASH	IN	INCH	OPG	OPENING	SQ FT/SF	SQUARE FOOT (FEET)	WH	WALL HYDRANT	O _{CO}	FLOOR CLEANOUT	
CHV	CHECK VALVE	EWC	ELECTRIC WATER COOLER	INT	INTERCEPTOR (SOLID,	OS&Y	OUTSIDE SCREW AND YOKE	SQ IN	SQUARE INCHES	WMO	WASH MACHINE OUTLET	— — CO	WALL MTD. CLEANOUT	
CI	CAST IRON	EXCL	EXCLUDING		GREASE, OIL, SAND, ETC.)	OZ	OUNCE	SS	STAINLESS STEEL	WS	WALL SCUPPER	1 00		
CO	CLEANOUT	EXIST	EXISTING	INV	INVERT	PC	PLUMBING CONTRACTOR	STD	STANDARD	W&V	WASTE AND VENT	⊖ ECO	EXTERIOR YARD CLEANOUT TO GRAI	DE
COL	COLUMN	F	DEGREE FAHRENHEIT	IW	INDIRECT WASTE	PERIM	PERIMETER	STL	STEEL	WW	WATER WORKS	C C		
	CONNECTION	FCO	FLOOR CLEANOUT	KEC	KITCHEN EQUIPMENT	PLBG	PLUMBING	STM	STORM	YD	YARD DRAIN	⊖ RD	ROOF DRAIN	D
CU FT	CUBIC FEET	FL	FLOOR		CONTRACTOR	PRESS	PRESSURE	STRUCT	STRUCTURAL	YH	YARD HYDRANT			

		PLUMBING F	IXTURE SCHEDULE				
FIXTURE	FIXTURE	TRIM AND ACCESSORIES	FIXTURE F	REFERENCE	TRIM AND AC	CESSORIES	
IDENT	DESCRIPTION	SPECIFICATIONS	MFGR / MODEL #	ALTERNATE MFGR	MFGR / MODEL #	ALTERNATE MFGR	
S-1	STAINLESS STEEL SINK 23-1/2"X18-1/4" SINGLE COMPARTMENT, SEAMLESS	SOLID BRASS CHROME PLATED FIELD-CONVERTIBLE - RIGID/SWING GOOSE NECK DECK FAUCET	ELKAY	JUST	1.50 GPM	KOHLER	
ADA	DRAWN 18 GA TYPE 304 STAINLESS STEEL, UNDERMOUNT	METAL HANDLE WITH RED/BLUE INDEX, WITH COLOR MATCHED SPRAY	MODEL	MOEN	AMERICAN STANDARD	ELKAY	
	SELF RIMING, 1-3/4" RADIUS COVED CORNERS, SATIN	LEAD FREE, CHROME PLATED P-TRAP W/ CLEANOUT PLUG	ELUHAD211550PD	ACORN	MODEL	ZURN	
	FINSIH, 3-3/8"" DRAIN, UNDERCOATED UNDERSIDE	WATER SUPPLIES, LOOSE KEY STOPS, CHROME ESCUTCHEONS		STERLING	MONTERREY - 6114.301	CHICAGO	
	4-7/8" DEEP BOWL, CENTER REAR DRAIN	1.5 GPM AERATOR				SYMMONS	

FIXTURE FIXTURE IDENT. DESCRIPTION EWC-1 ELECTRIC WATER COOLER BARRIER FREE, BI-LEVEL FILTERED MODULAR RECESSED CHILLER UNIT, ADA COMPLIANT UL LISTED, ANSI A117.1

— WALL

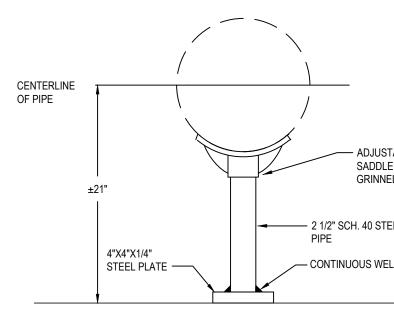


PLUMBING LEGEND (not all may apply)

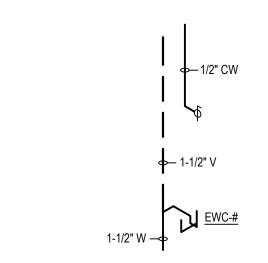
WATER CO	OLER SCHEDUL	Ξ				
FIXTURE	FRONT AND SIDE	REFE	RENCE	ALTERNATE	E	EL
SPECIFICATION	PANELS	PRODUCT	MODEL	MANUFACTURER	WATTS	
LEAD FREE WATER WAYS, STAINLESS STEEL TOP, FLEXIBLE BUBBLER						
STAINLESS STEEL WALL PANELS, HEAVY DUTY GALVANIZED STEEL FRAME	STAINLESS STEEL	ELKAY	LVRCTL8WSK	ACORN	370	
FRONT PUSH BUTTON, INTEGRAL BOTTLE FILLING STATION,				OASIS		
PRESSURE REDUCING VALVE, HIGH EFFICIENCY COOLING TANK AND COIL,						
REFRIGERANT R-134a, P-TRAP AND STOP VALVE, LIMITED FIVE YEAR WARRANTY						

PLUMBING DRAIN SCHEDULE

FIXTURE	FIXTURE	FIXTURE	REFER	ENCE
IDENT	DESCRIPTION	SPECIFICATION	MANUFACTURER	
OD-1	CAST IRON OVERFLOW DRAIN CAST IRON DOME, 2"HIGH EXTERNAL DAM	SIZE AS INDICATED ON DRAWINGS	JAY R. SMITH	
	ROOF SUMP RECEIVER AND UNDER DECK CLAMP VANDAL PROOF, ANSI A112.21.2			
WS-1	WALL SCUPPER	SIZE AS INDICATED ON DRAWINGS MATCH PIPE SIZE	JAY R. SMITH	







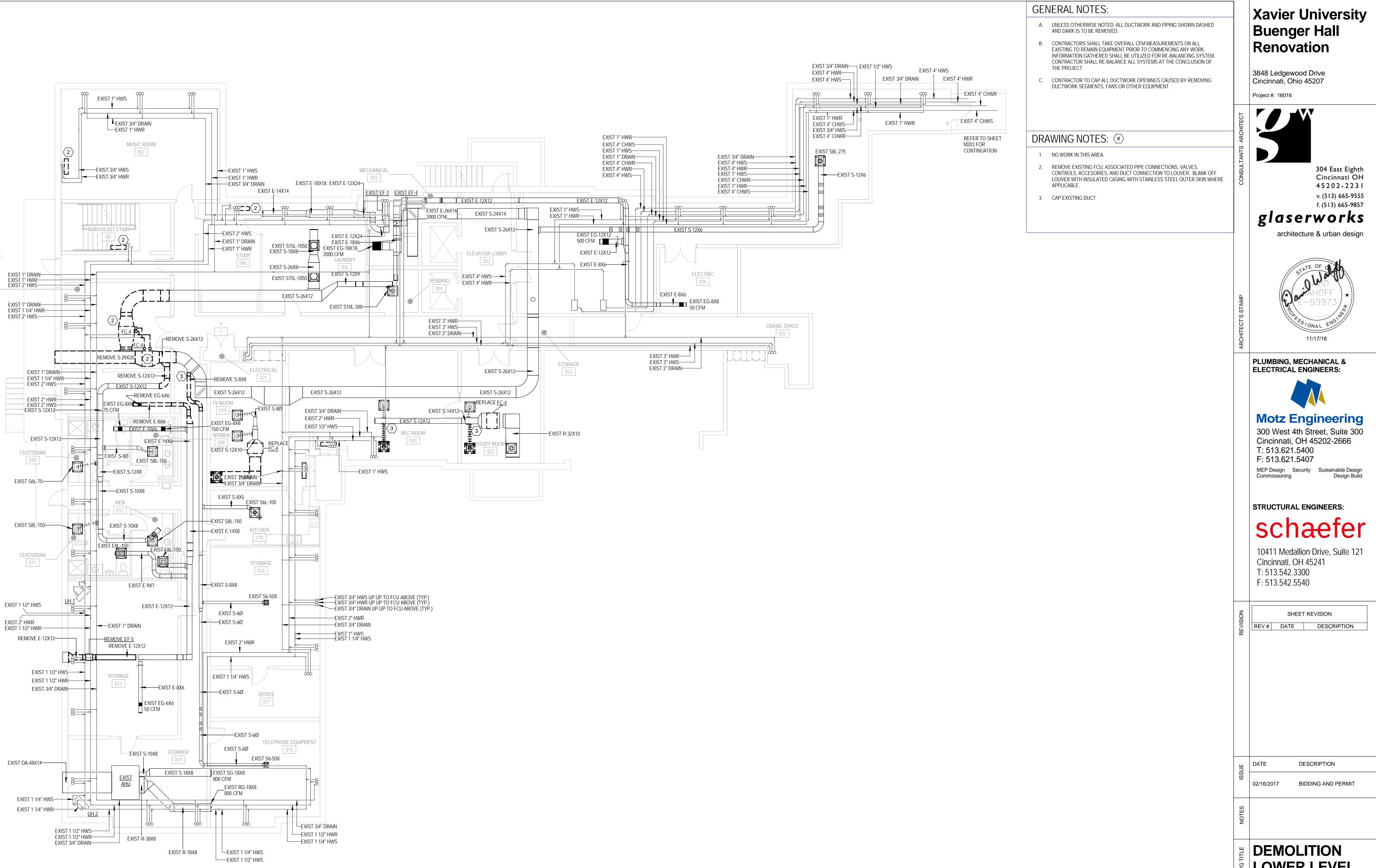
- NEW PIPE ---- NEW SLEEVE 1" ABOVE FLOOR AND 1" BELOW FLOOR SEALANT AT BOTH ENDS OF SLEEVE - GROUT SLEEVE TO FLOOR - Floor FIRE SEAL MATERIAL





DUAL ELECTRIC WATER COOLER SCALE: N.T.S.

							Xavier University Buenger Hall Renovation
 — ELBO — ELBO — ELBO → BRAN → WALL → HOSE → VENT → THER → PRESE → WATE 	OR DROP W DOWN CH BOTTOM CC HYDRANT	ONNECTION OF WITH RISER			POINT OF CONNECTION POINT OF REMOVAL POINT OF CONNECTION/REMOVAL FINISHED FLOOR ELEVATION SANITARY PIPING ABOVE GRADE SANITARY PIPING UNDER SLAB VENT PIPING DOMESTIC CITY WATER SUPPLY HOT WATER SUPPLY HOT WATER RETURN STORM DRAIN BELOW FLOOR STORM DRAIN ABOVE GRADE GAS PIPING TEMPERED WATER (TW) ACID WASTE (AW) ACID VENT (AV)	ARCHITECT'S STAMP CONSULTANTS ARCHITECT	3848 Ledgewood Drive Cincinnati, Ohio 45207 Project #: 16016 Soft State
N GO DNS	INCLU	DE MATCHING SI		ADA PANEL BY CASE WO	DRK CONTRACT		PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS:
ELECTRICA	L REQUIREMEN AMPS 5	TS Hz 60	CAP. GPH 8.0		REMARKS ITEGRAL BOTTLE FILLING STATION AUTOMATIC 20-SECOND SHUT OFF		Motz Engineering300 West 4th Street, Suite 300Cincinnati, OH 45202-2666T: 513.621.5400F: 513.621.5407MEP Design Security Sustainable Design Commissioning Design Build
RENCE MODE 108)	ALTERNA MANUFACT WADE JOSAM ZURN WATTS JOSAM ZURN WATTS	URER E M I S E M		REMARKS DE AN ADJUSTABLE EXTENSION SLEEVE TO SET THE FLASHING RING THE TOP OF THE ROOF INSULATION		structural engineers: Schaefer 10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 T: 513.542.3300 F: 513.542.5540
ISTABLE PIPE DLE SUPPORT NELL #264 STEEL		DR/ BE THE	ERFLOW DRAII	N TO SS OF ATION	WATER DAM 1-1/2" HIGHER THAN THE ADJACENT INSULATION WITH-IN 10'-0" COORDINATE ROOF DRAIN INSTALLATION WITH ROOFING CONTRACTOR UNDER DECK UNDER DECK UNDER DECK CLAMP DECEIVER TO AT A MINIMUM TIONS PER SIDE	KEVISION	SHEET REVISION REV # DATE DESCRIPTION
(7 P200		ERFLOV E:n.t.s.	V DRAIN INS	STALLATION 6 P200	ISSUE	DATE DESCRIPTION 02/16/2017 BIDDING AND PERMIT
				1/2" HW - 1-1/2		DWG TITLE NOTES	PLUMBING DETAILS
(2 P200		<mark>IK ISO. (</mark> e:n.t.s.		DERGROUND PIPE SIZE 2"	SHEET NO.	P200



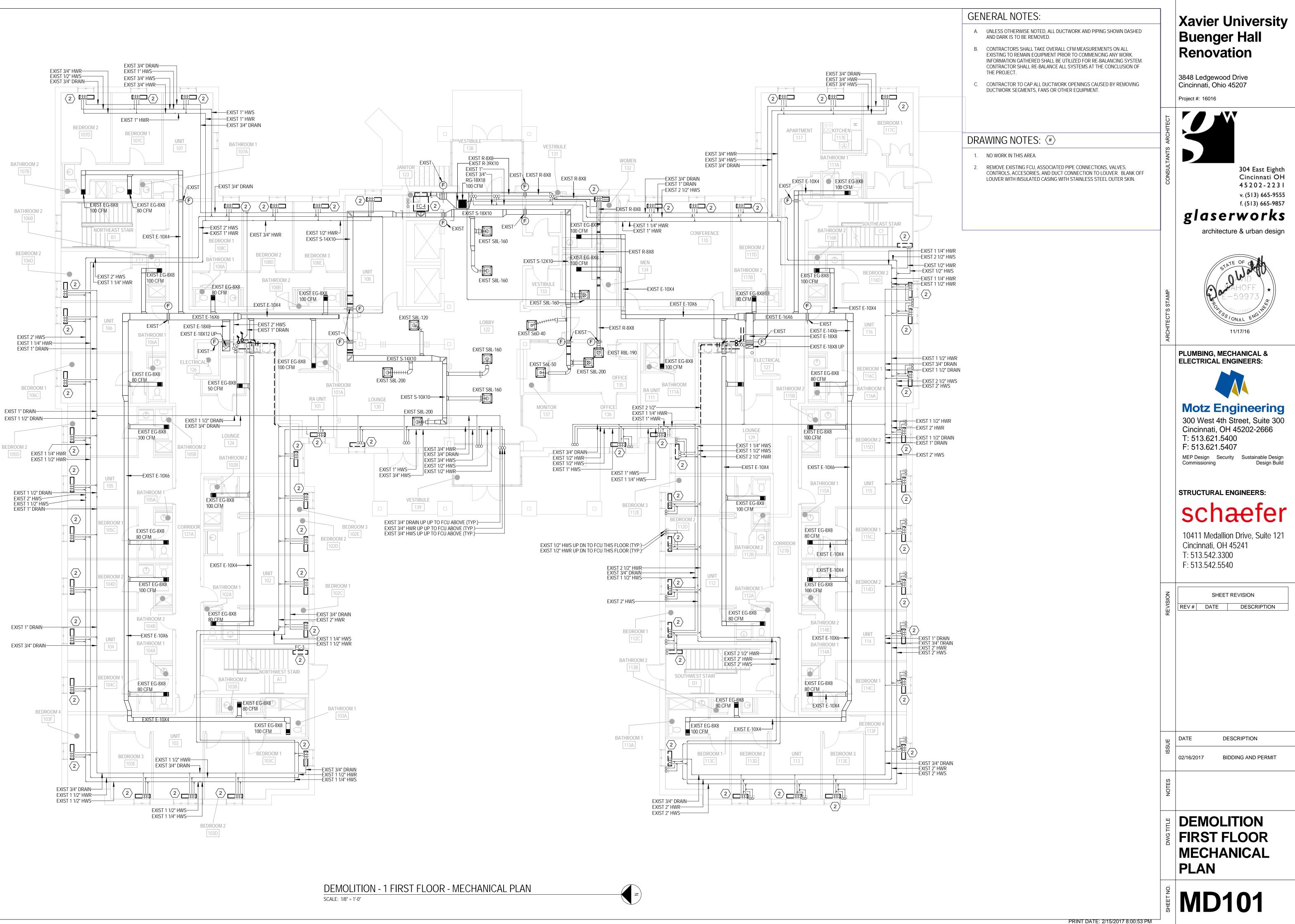
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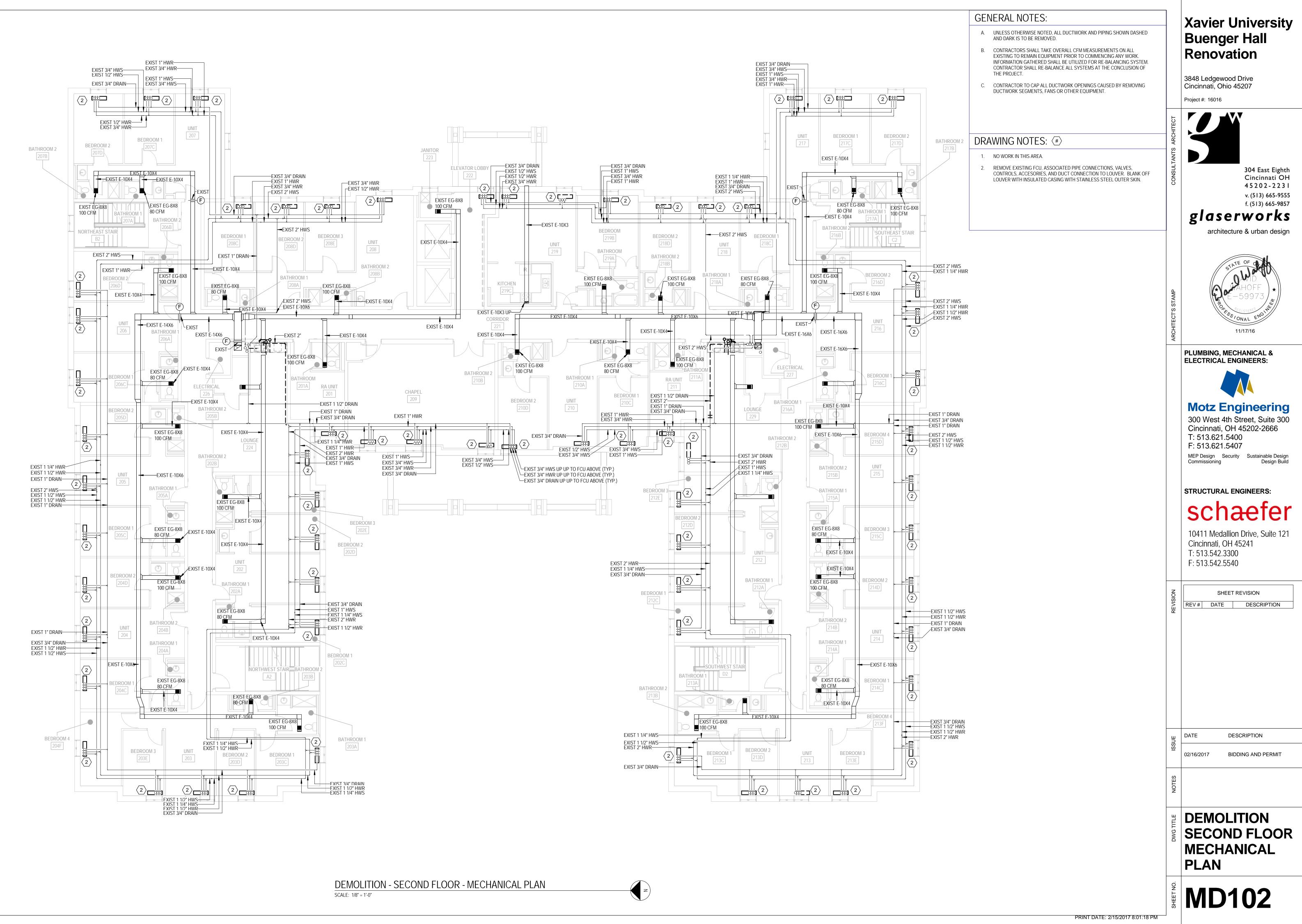
Ö	45202-2231 v. (513) 665-9555 f. (513) 665-9857 glaserworks
ARCHITECT'S STAMP	architecture & urban design
	PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS:
	Motz Engineering 300 West 4th Street, Suite 300 Cincinnati, OH 45202-2666 T: 513.621.5400 F: 513.621.5407 MEP Design Security Sustainable Design Commissioning Security Design Build
	STRUCTURAL ENGINEERS: Schaefer 10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 T: 513.542.3300 F: 513.542.5540
REVISION	SHEET REVISION REV # DATE DESCRIPTION
ISSUE	DATE DESCRIPTION 02/16/2017 BIDDING AND PERMIT
NOTES	
DWG TITLE	DEMOLITION LOWER LEVEL MECHANICAL PLAN
SHEET NO.	MD100

304 East Eighth

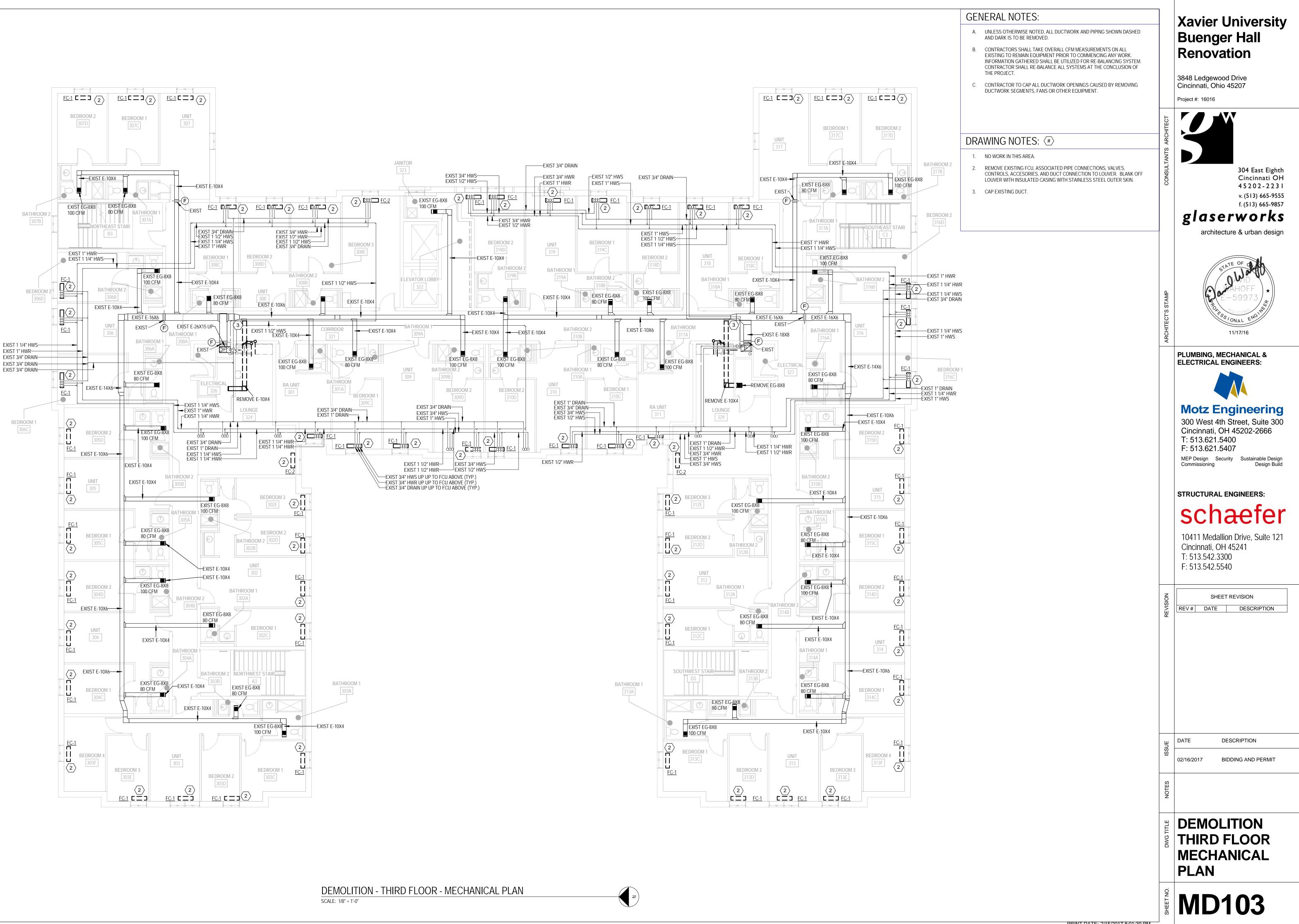
Cincinnati OH

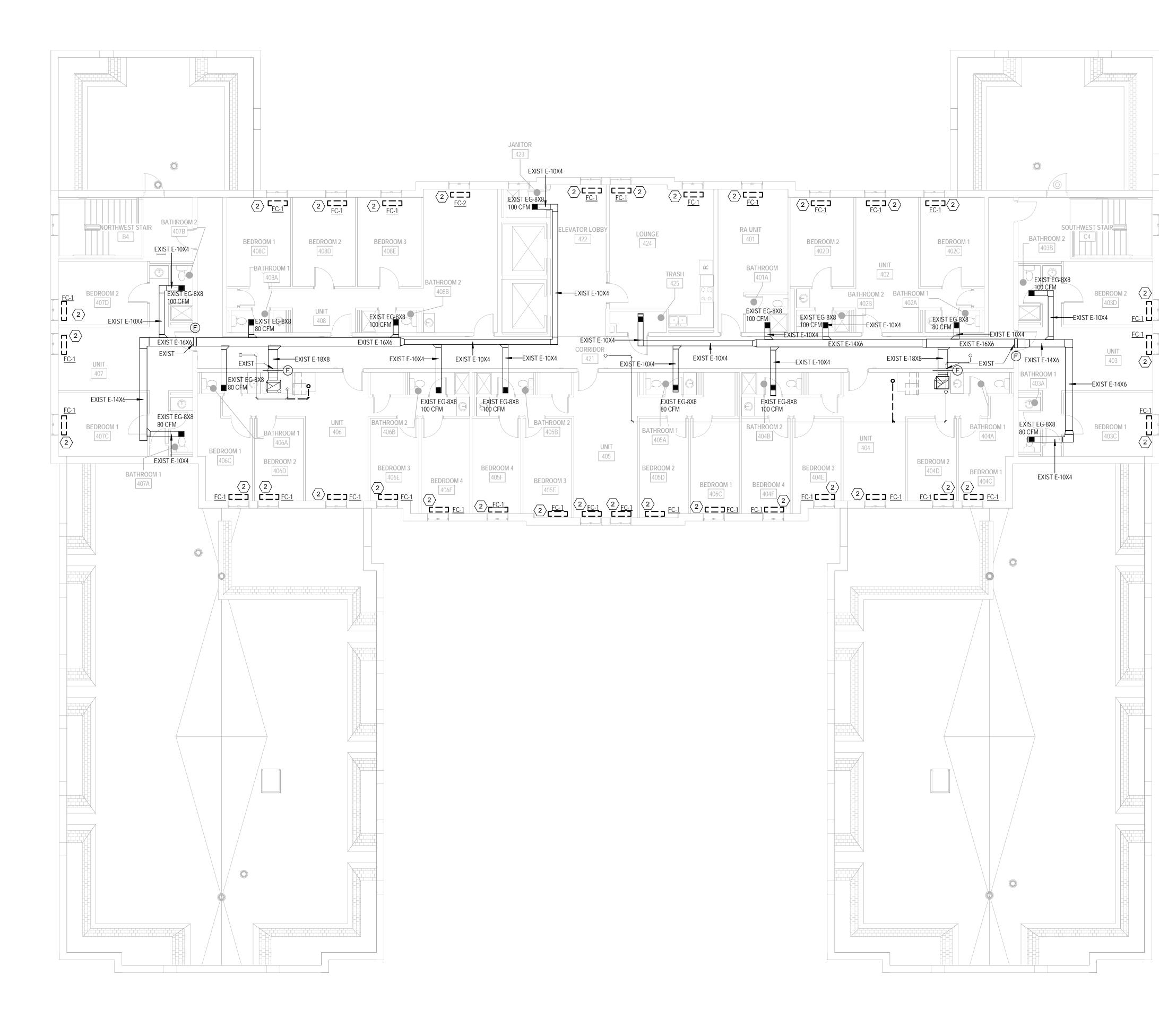




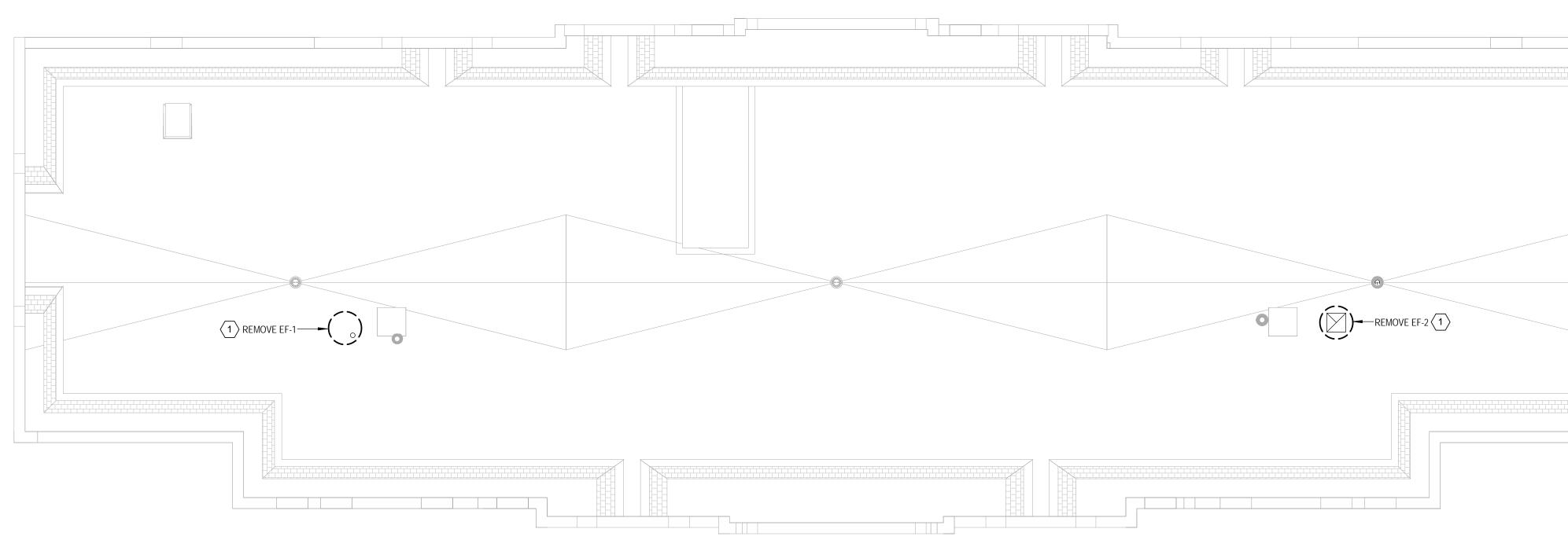








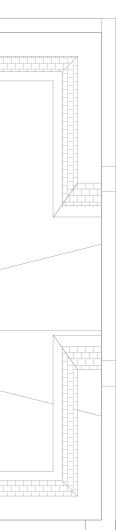




- A. UNLESS OTHERWISE NOTED, ALL DUCTWORK AND PIPING SHOWN DASHED AND DARK IS TO BE REMOVED.
- B. CONTRACTORS SHALL TAKE OVERALL CFM MEASUREMENTS ON ALL EXISTING TO REMAIN EQUIPMENT PRIOR TO COMMENCING ANY WORK. INFORMATION GATHERED SHALL BE UTILIZED FOR RE-BALANCING SYSTEM. CONTRACTOR SHALL RE-BALANCE ALL SYSTEMS AT THE CONCLUSION OF THE PROJECT.
- C. CONTRACTOR TO CAP ALL DUCTWORK OPENINGS CAUSED BY REMOVING DUCTWORK SEGMENTS, FANS OR OTHER EQUIPMENT.

DRAWING NOTES: (#)

1. REMOVE EXHAUST FAN AND ASSOCIATED POWER AND CONTROLS. EXISTING CURB TO REMAIN. PREPARE DUCTWORK FOR RECONNECTION IN NEW WORK.

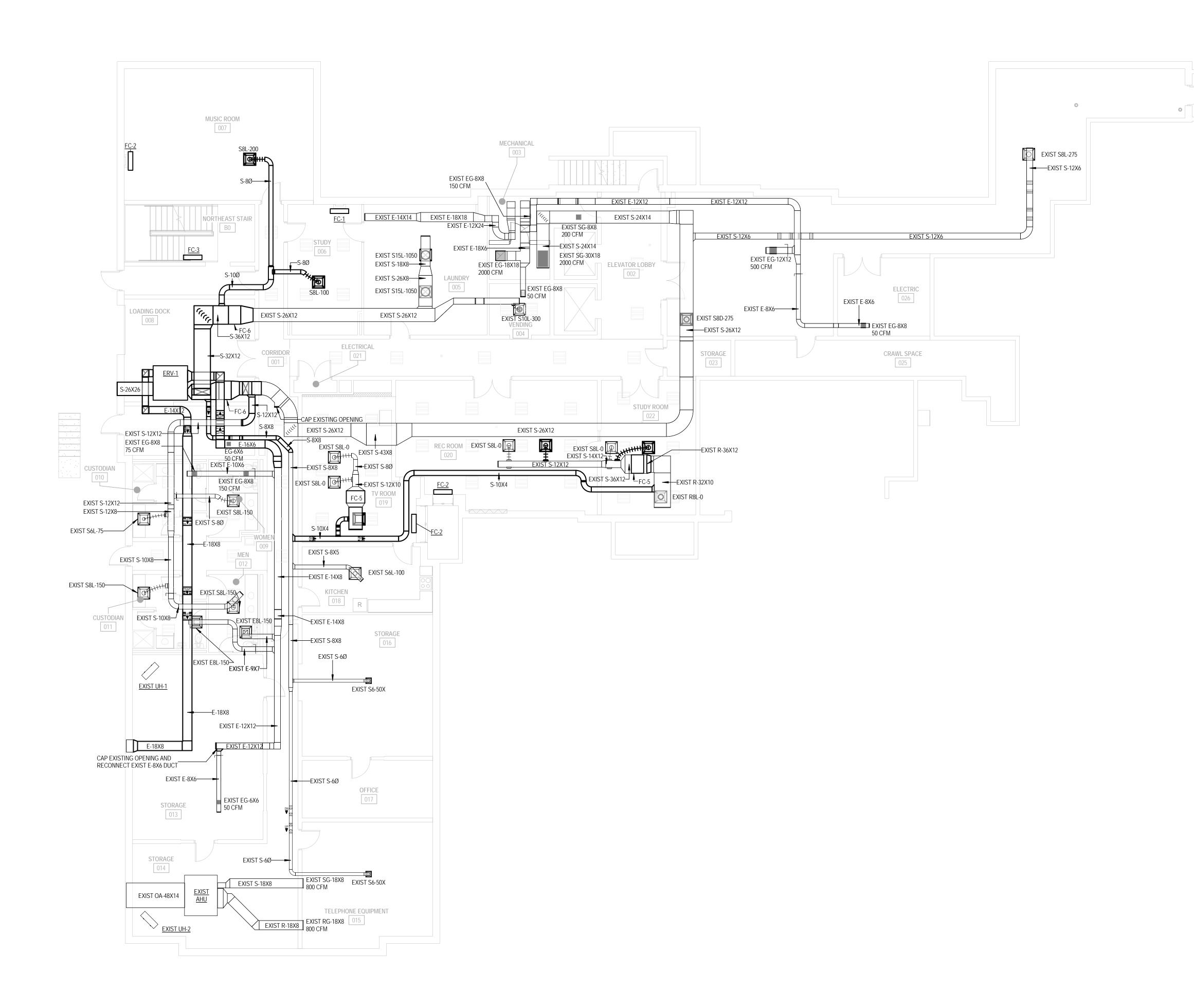


Xavier University Buenger Hall Renovation

3848 Ledgewood Drive Cincinnati, Ohio 45207 Project #: 16016

304 East Eighth Cincinnati OH 45202-2231 v. (513) 665-9555 f. (513) 665-9857 glaserworks architecture & urban design 11/29/16 PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS: **Motz Engineering** 300 West 4th Street, Suite 300 Cincinnati, OH 45202-2666 T: 513.621.5400 F: 513.621.5407 MEP Design Security Sustainable Design Commissioning Design Build STRUCTURAL ENGINEERS: schæfer 10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 T: 513.542.3300 F: 513.542.5540 SHEET REVISION REV # DATE DESCRIPTION DESCRIPTION DATE BIDDING AND PERMIT 02/16/2017 DEMOLITION MECHANICAL **ROOF PLAN**

MD105



- A. UNLESS OTHERWISE NOTED, ALL DUCTWORK SHOWN DARK IS NEW.
- B. HVAC CONTRACTOR SHALL COORDINATE DUCTWORK LOCATIONS WITH ALL OTHER TRADES.
- C. DUCTWORK SIZE TO MATCH GRILLE SIZE. ALL CONDITIONS SHALL BE FIELD
- VERIFIED BEFORE ORDERING EQUIPMENT OR FABRICATING MATERIAL. D. INSTALL A MANUAL BALANCE DAMPER IN ALL BRANCH DUCTS, INCLUDING
- CONNECTIONS TO ALL SUPPLY AND EXHAUST GRILLES. E. ALL SQUARE THROATED ELBOWS SHALL HAVE AIRFOIL TURNING VANES AND
- UNLESS OTHERWISE NOTED, ALL DUCTWORK SHALL BE FABRICATED FROM GALVANIZED STEEL SHEETS, INSTALLED IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS FOR GAUGE, REINFORCEMENT, AND SUPPORT; 2" W.G. PRESSURE CLASS FOR ALL DUCTWORK. ALL JOINTS AND SEAMS SHALL BE SEALED. FASTENED AND MADE AIRTIGHT IN ACCORDANCE WITH CHAPTER 13 OF THE OBC.
- G. DUCTWORK TO DIFFUSER IS SAME SIZE AS DIFFUSER NECK SIZE.

SHALL ONLY BE USED WHEN RADIUS ELBOWS WILL NOT FIT.

- H. ALL WORK SHALL BE INSTALLED PER THE 2011 OHIO BUILDING CODE, 2011 OHIO MECHANICAL CODE, AND ALL LOCAL APPLICABLE CODES.
- I. IN AREAS WHERE CEILINGS ARE NOT BEING REPLACED, AND CONTRACTOR HAS WORK ABOVE CEILINGS, CONTRACTOR SHALL WORK THROUGH GRID WHERE POSSIBLE AND PATCH AND REPAIR CEILINGS TO MATCH EXISTING.
- CONTRACTOR SHALL INSTALL ALL DUCTWORK, DAMPERS, GRILLES, INSULATION, ETC. AS INDICATED OR AS NECESSARY TO ALLOW OPERATION AND USE OF ALL AREAS AND ALL SYSTEMS REQUIRED FOR OCCUPIED USE DURING EACH PHASE OF THE PROJECT.
- K. SEAL/CAULK SPACE AROUND NEW DUCTWORK PENETRATIONS OF ALL RATED WALLS TO COMPLY WITH OBC 711.

DRAWING NOTES: 🖉

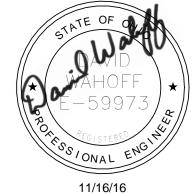
1. NO WORK IN THIS AREA.

Xavier University Buenger Hall Renovation

3848 Ledgewood Drive Cincinnati, Ohio 45207

Project #: 16016

304 East Eighth Cincinnati OH 45202-2231 v. (513) 665-9555 f. (513) 665-9857 glaserworks architecture & urban design



PLUMBING, MECHANICAL & **ELECTRICAL ENGINEERS:**



Motz Engineering

300 West 4th Street, Suite 300 Cincinnati, OH 45202-2666 T: 513.621.5400 F: 513.621.5407 MEP Design Security Sustainable Design Commissioning Design Build

STRUCTURAL ENGINEERS:

schæfer

10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 T: 513.542.3300 F: 513.542.5540 SHEET REVISION REV # DATE DESCRIPTION

DATE	DESCRIPTION

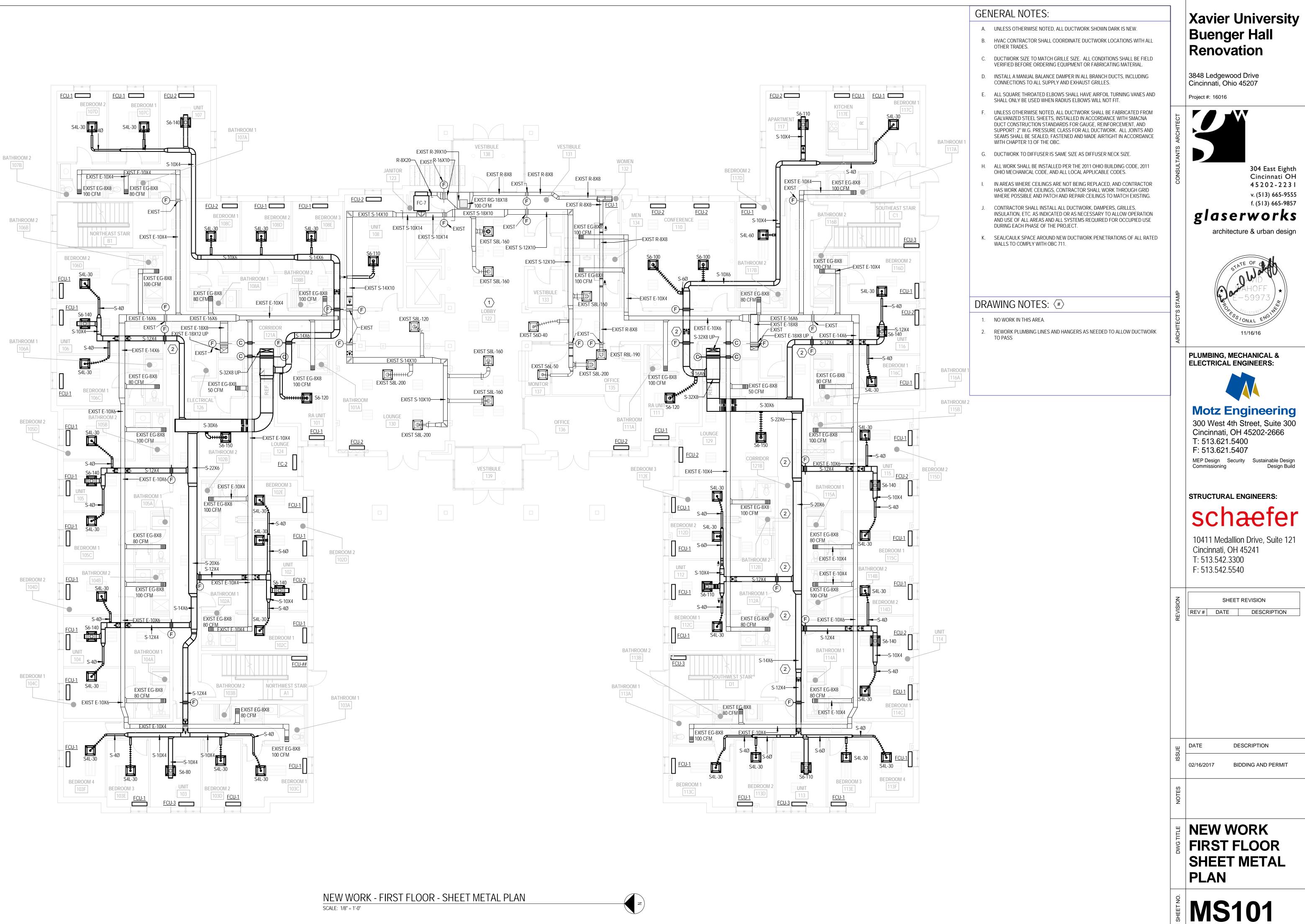
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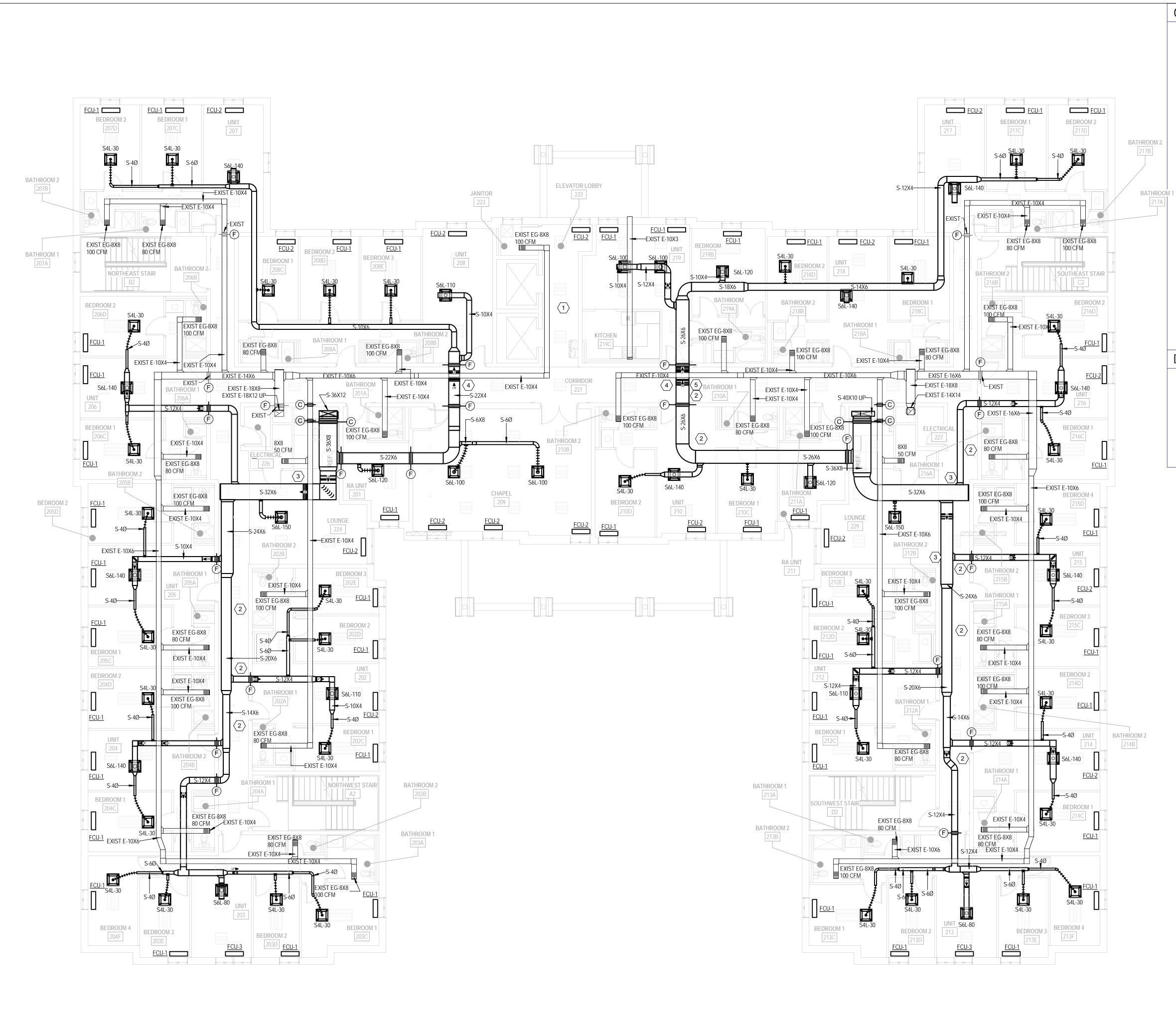


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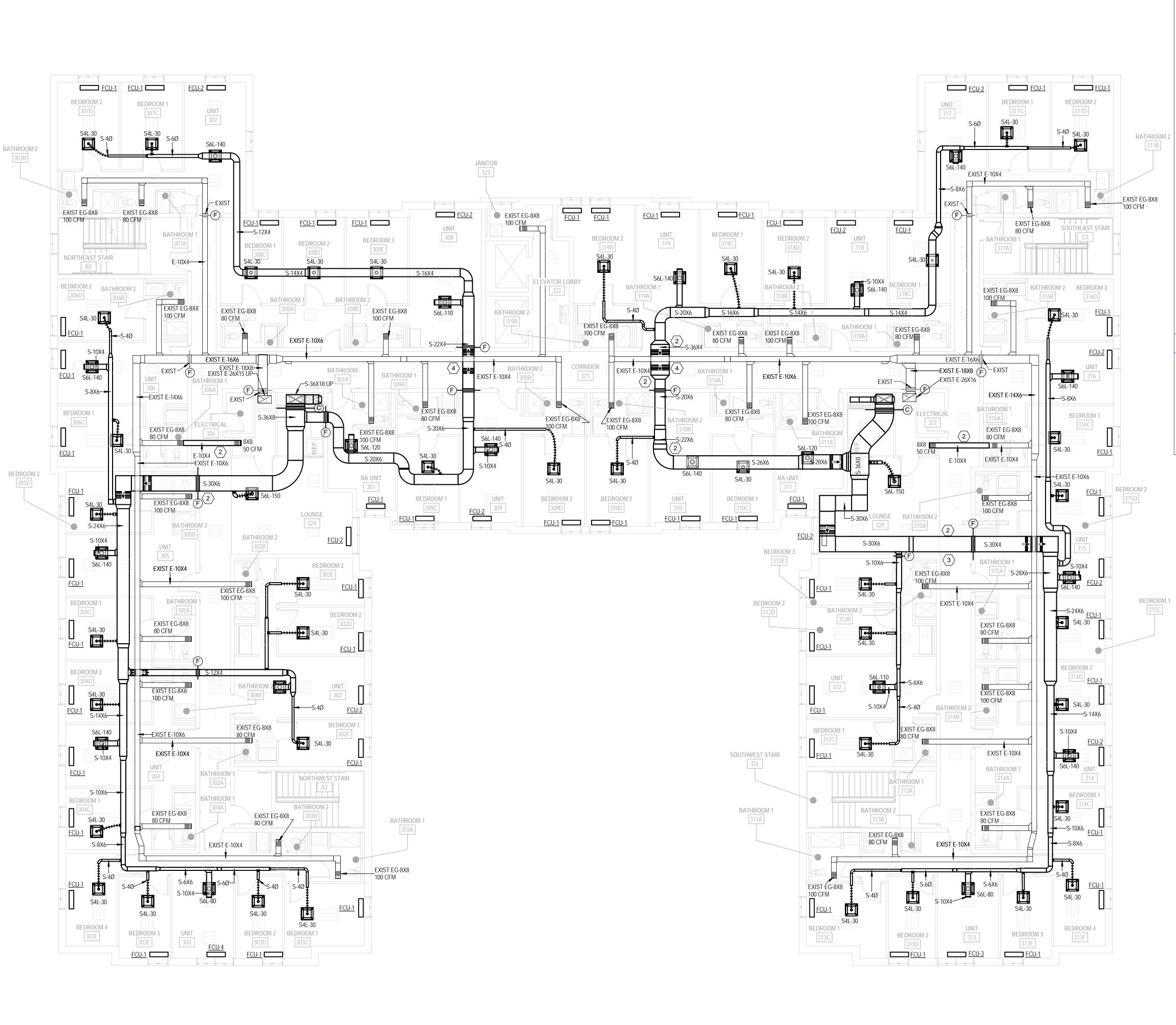


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- K. SEAL/CAULK SPACE AROUND NEW DUCTWORK PENETRATIONS OF ALL RATED WALLS TO COMPLY WITH OBC 711.

DRAWING NOTES: (#)

- 1. NO WORK IN THIS AREA.
- 2. REWORK PLUMBING LINES AND HANGERS AS NEEDED TO ALLOW DUCTWORK TO PASS.
- RELOCATE JUNCTION BOXES AS REQUIRED TO NOT BE COVERED AND ALLOW DUCTWORK TO PASS.
- 4. REWORK EXISITING EXHAUST LINE UP TIGHT TO DECK AS REQUIRED TO ALLOW SUPPLY DUCT TO PASS UNDER.
- 5. REWORK SPRINKLER LINE AND HANGER UP AS NEEDED TO ALLOW DUCWORK TO PASS.



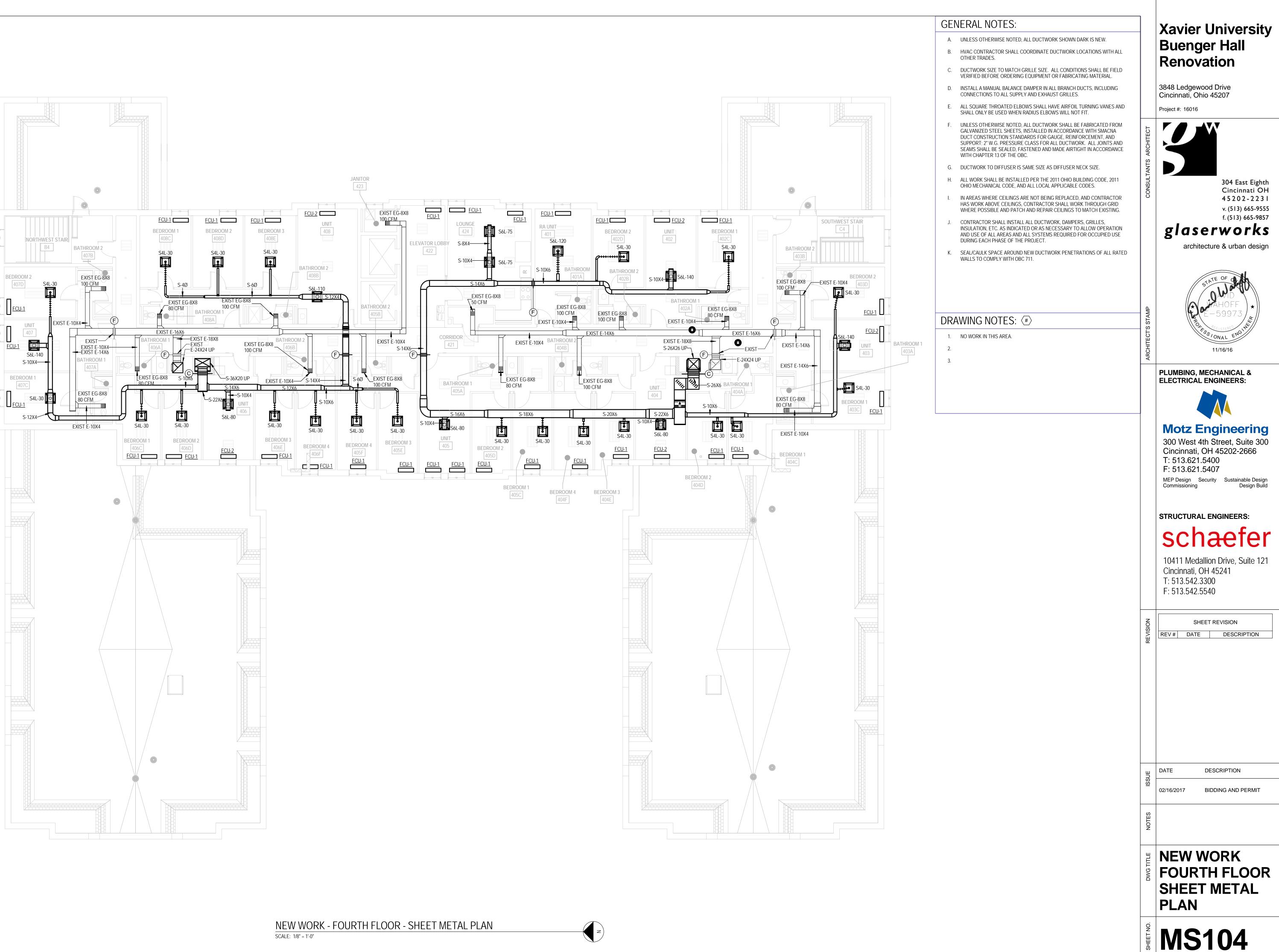


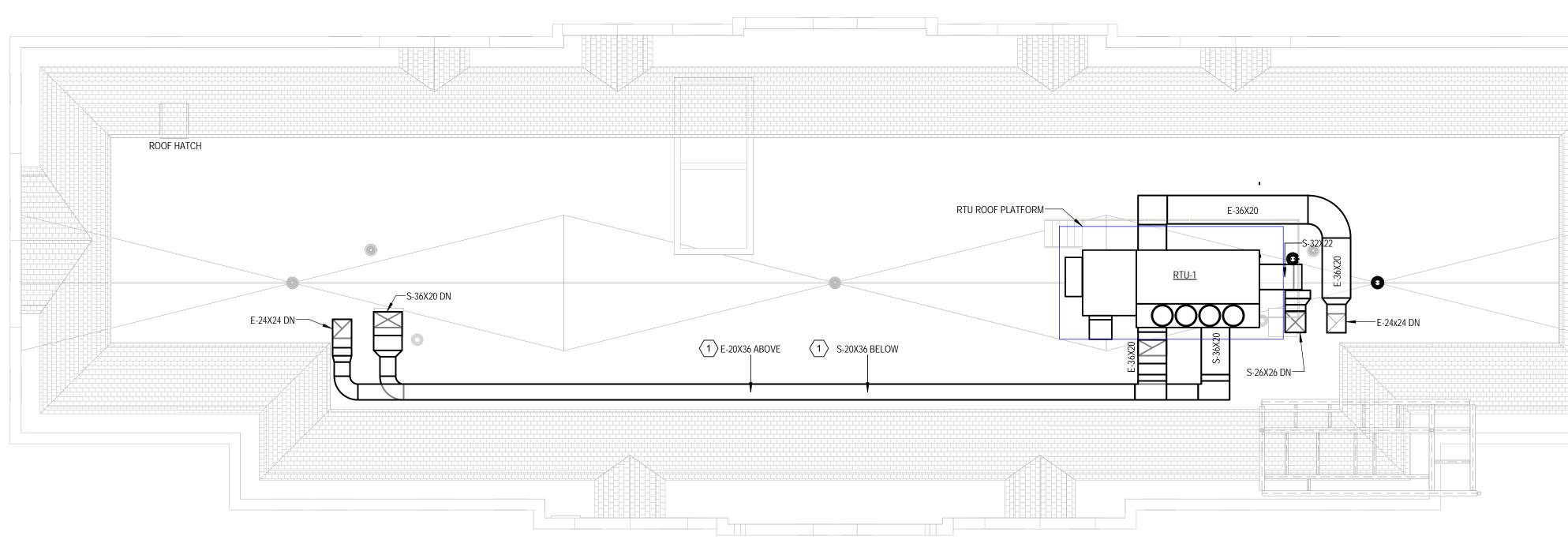
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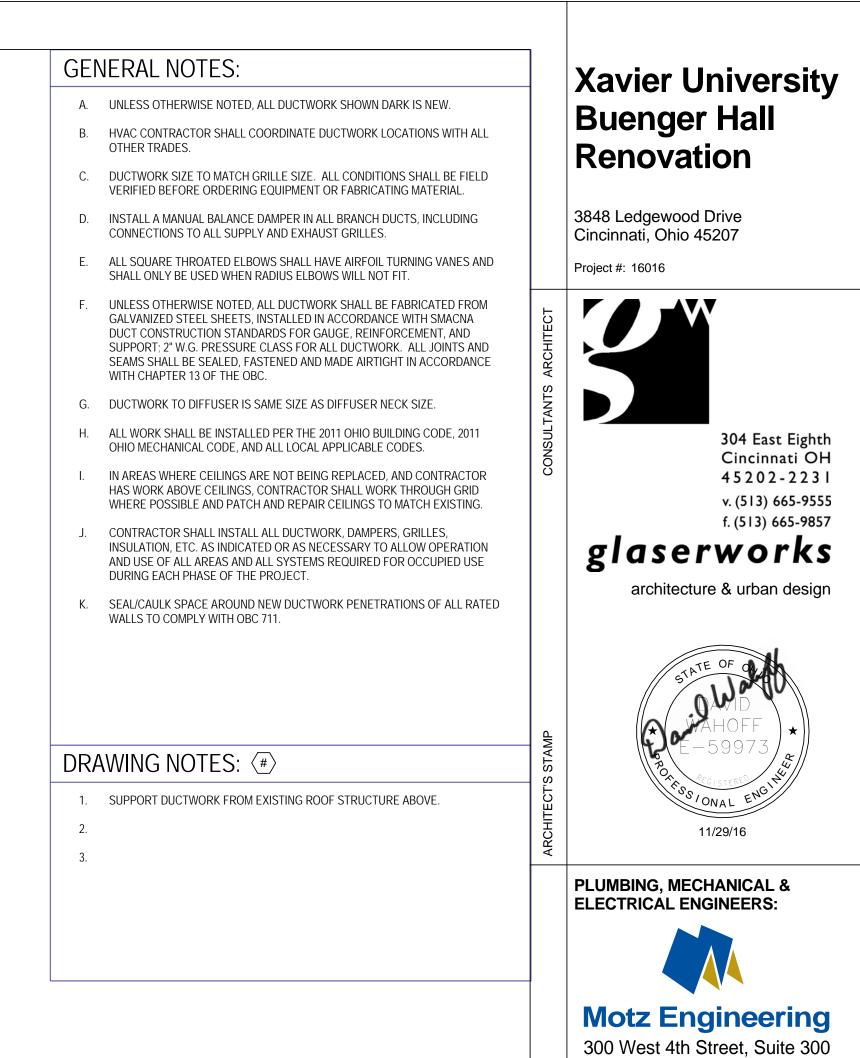
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Cincinnati, OH 45202-2666

MEP Design Security Sustainable Design Commissioning Design Build

schæfer

10411 Medallion Drive, Suite 121

SHEET REVISION

DESCRIPTION

NEW WORK

ROOF PLAN

MS105

SHEET METAL

BIDDING AND PERMIT

REV # DATE DESCRIPTION

STRUCTURAL ENGINEERS:

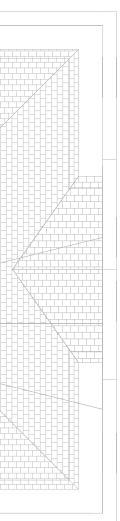
Cincinnati, OH 45241

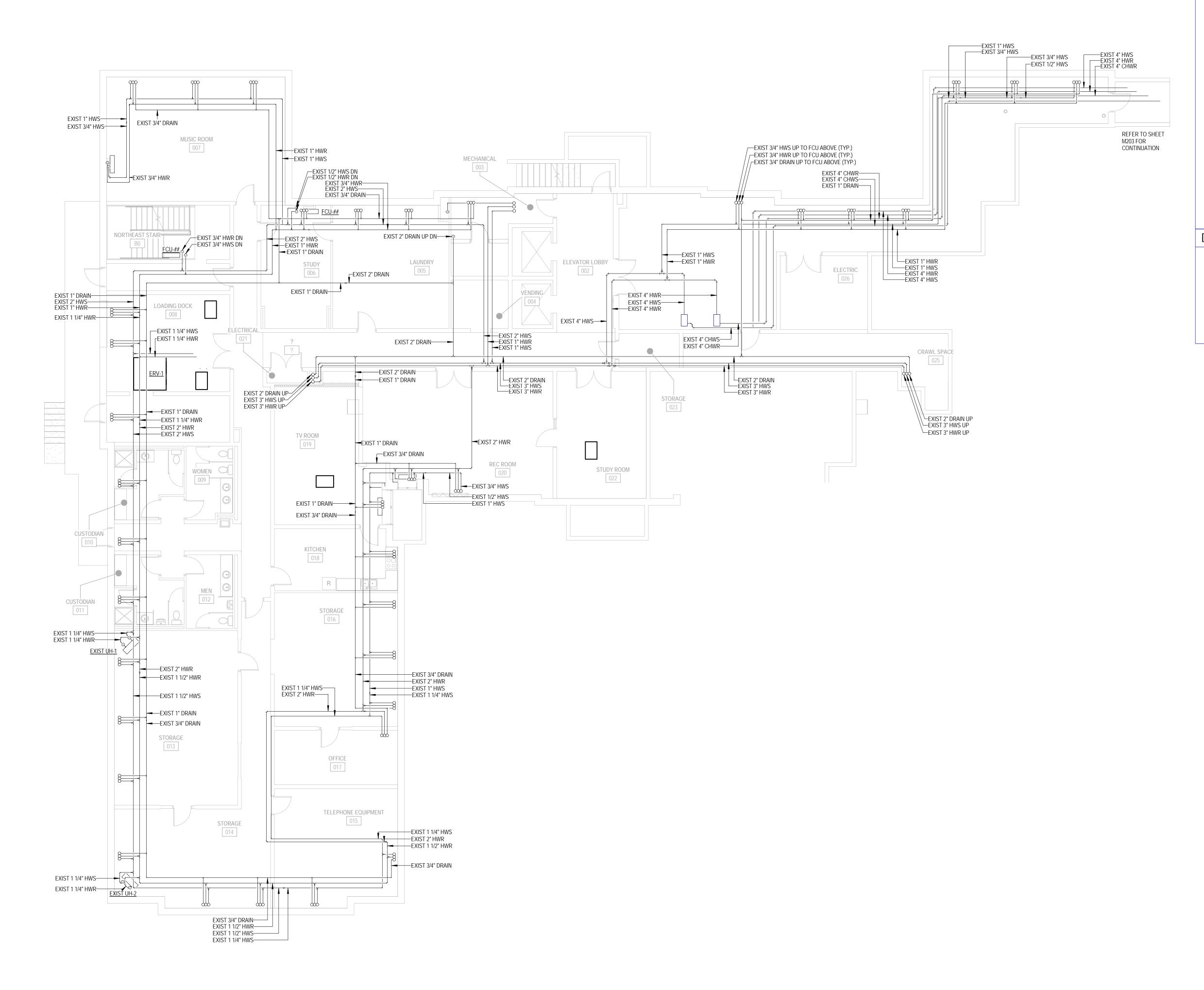
T: 513.542.3300 F: 513.542.5540

DATE

02/16/2017

T: 513.621.5400 F: 513.621.5407



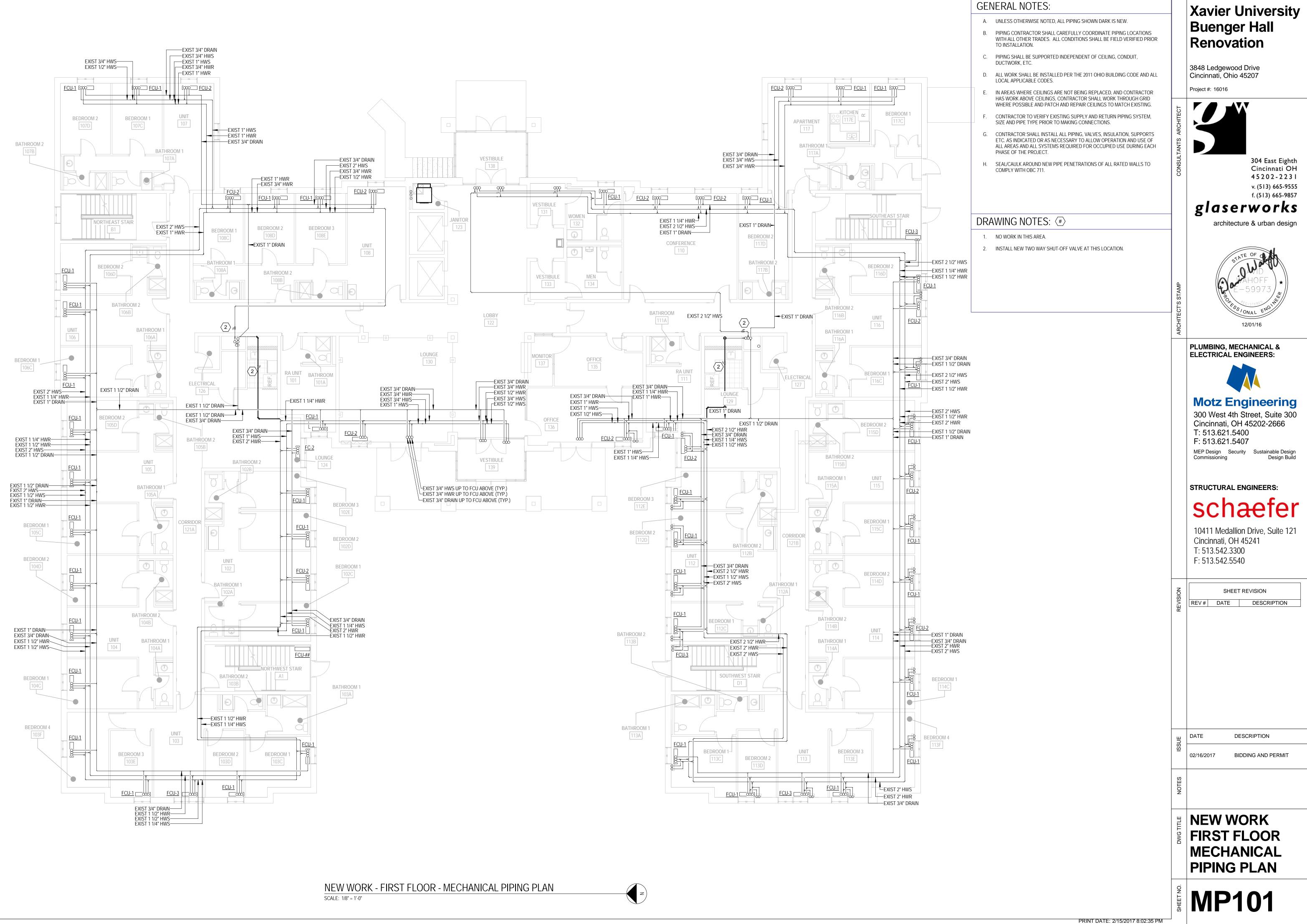


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- B. PIPING CONTRACTOR SHALL CAREFULLY COORDINATE PIPING LOCATIONS WITH ALL OTHER TRADES. ALL CONDITIONS SHALL BE FIELD VERIFIED PRIOR TO INSTALLATION.
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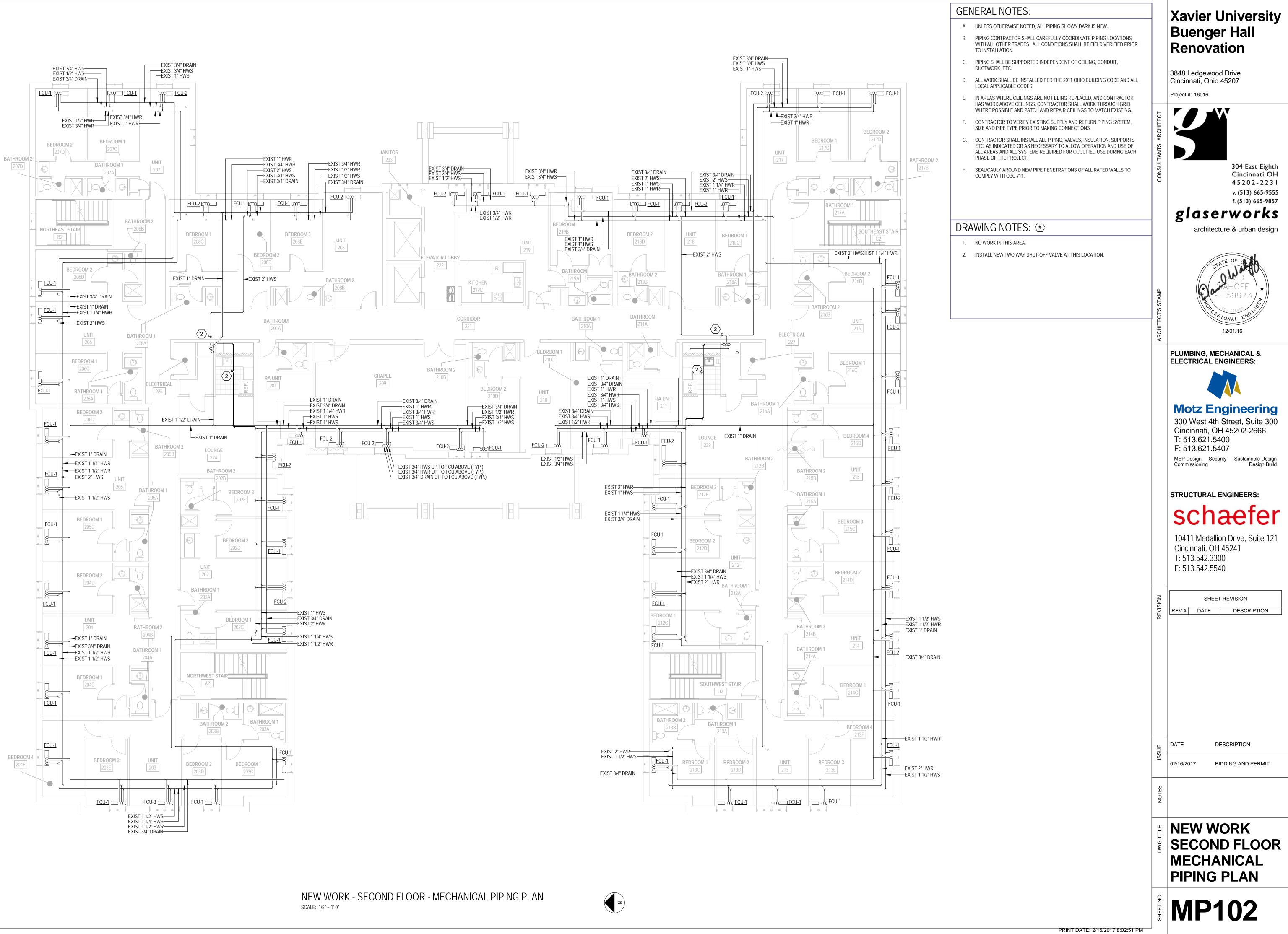
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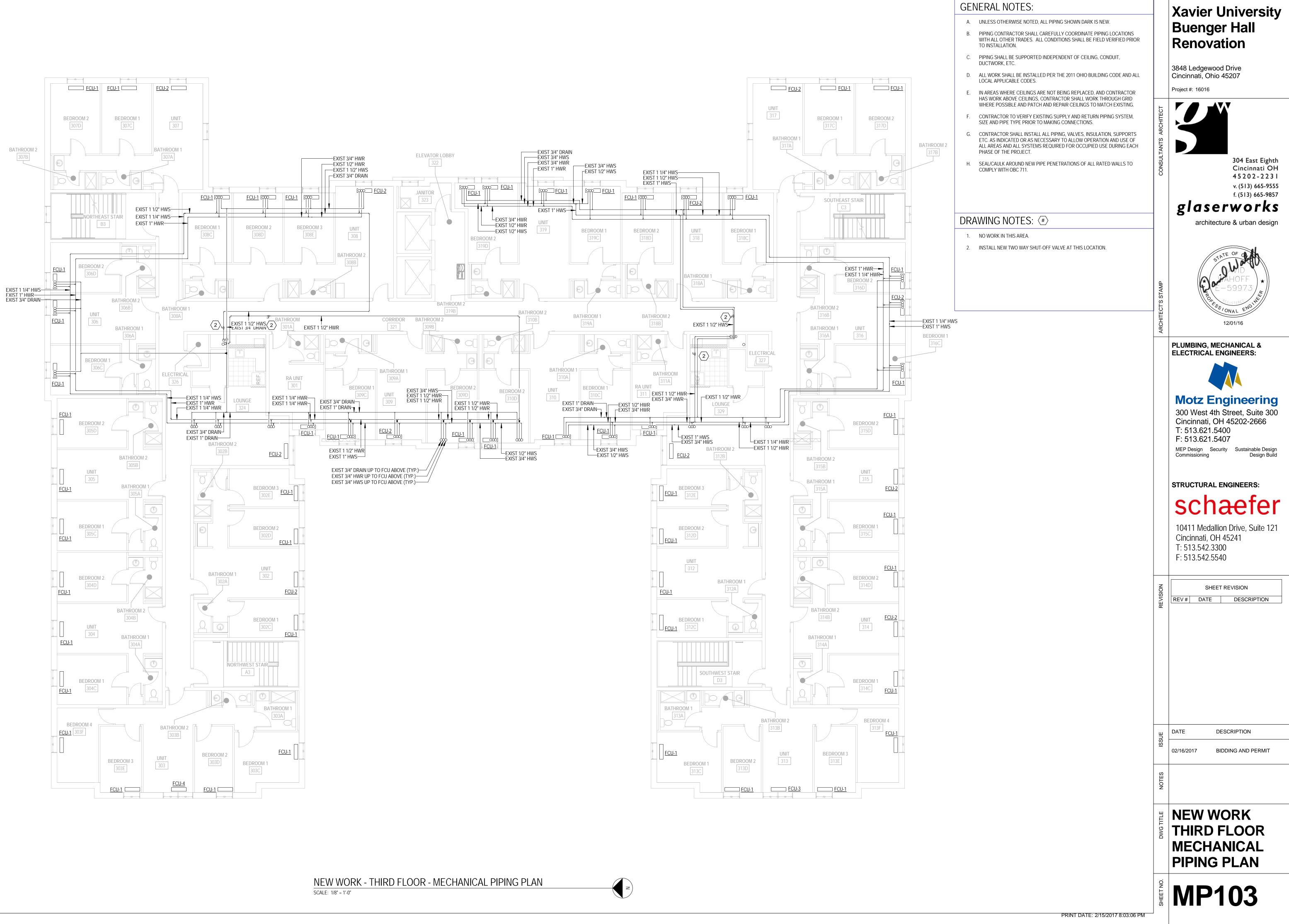




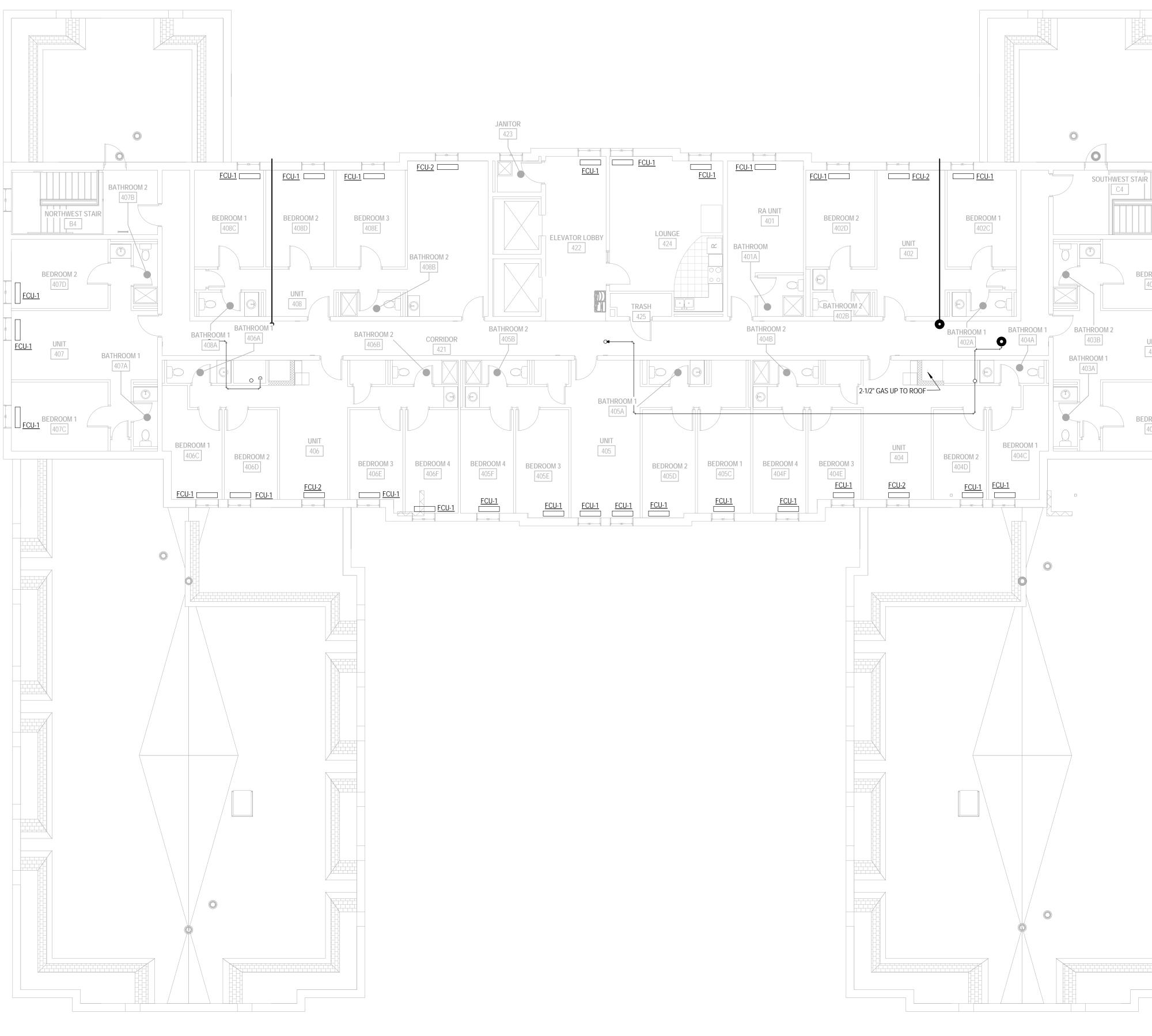




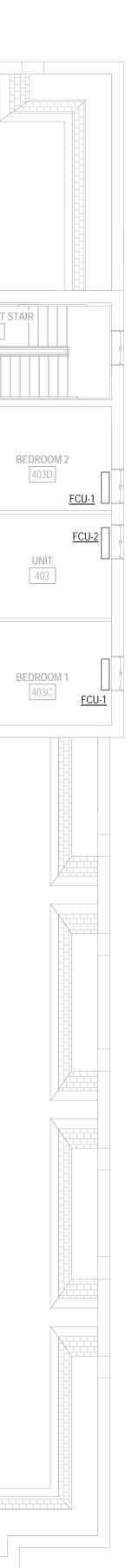












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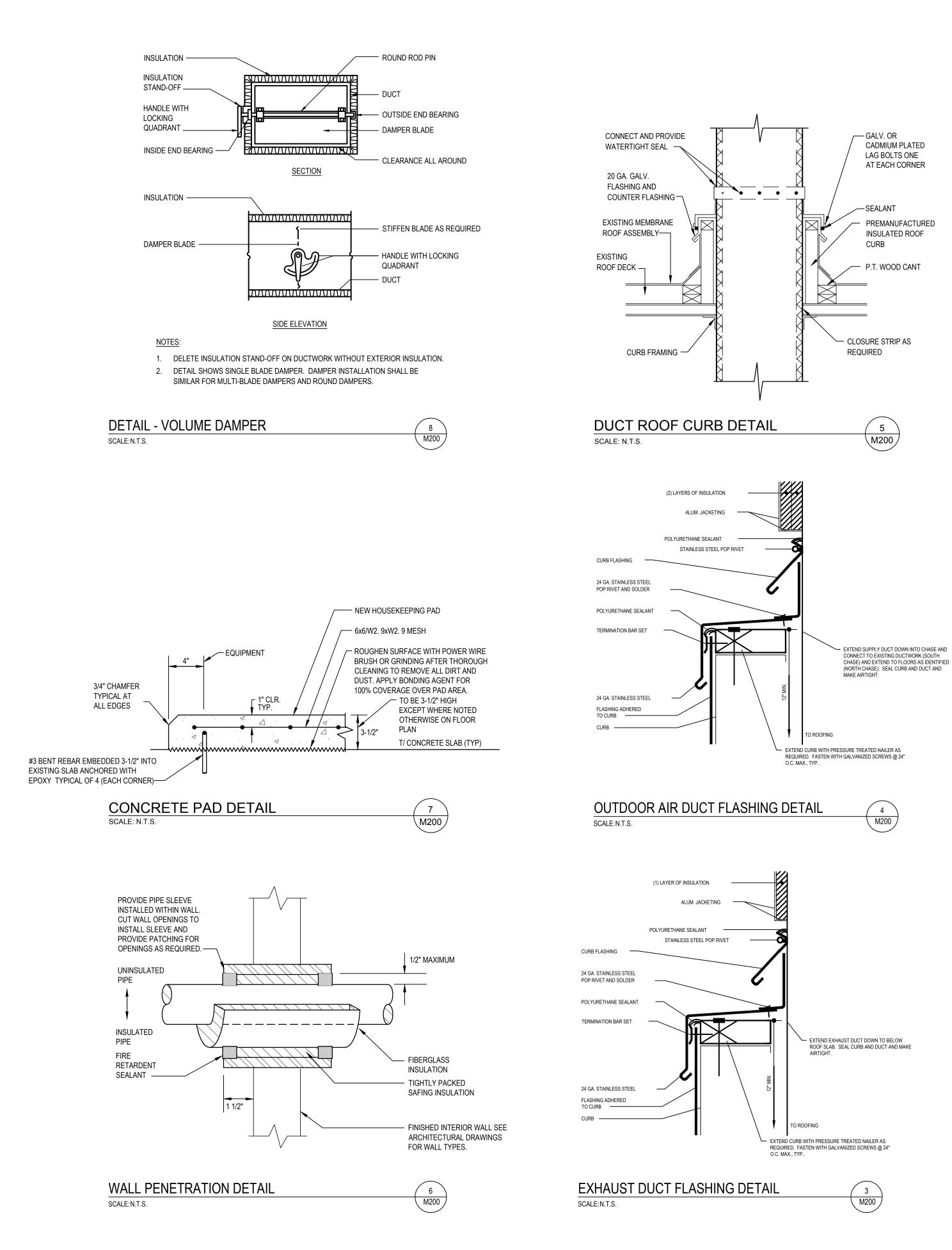
2. INSTALL NEW TWO WAY SHUT-OFF VALVE AT THIS LOCATION.

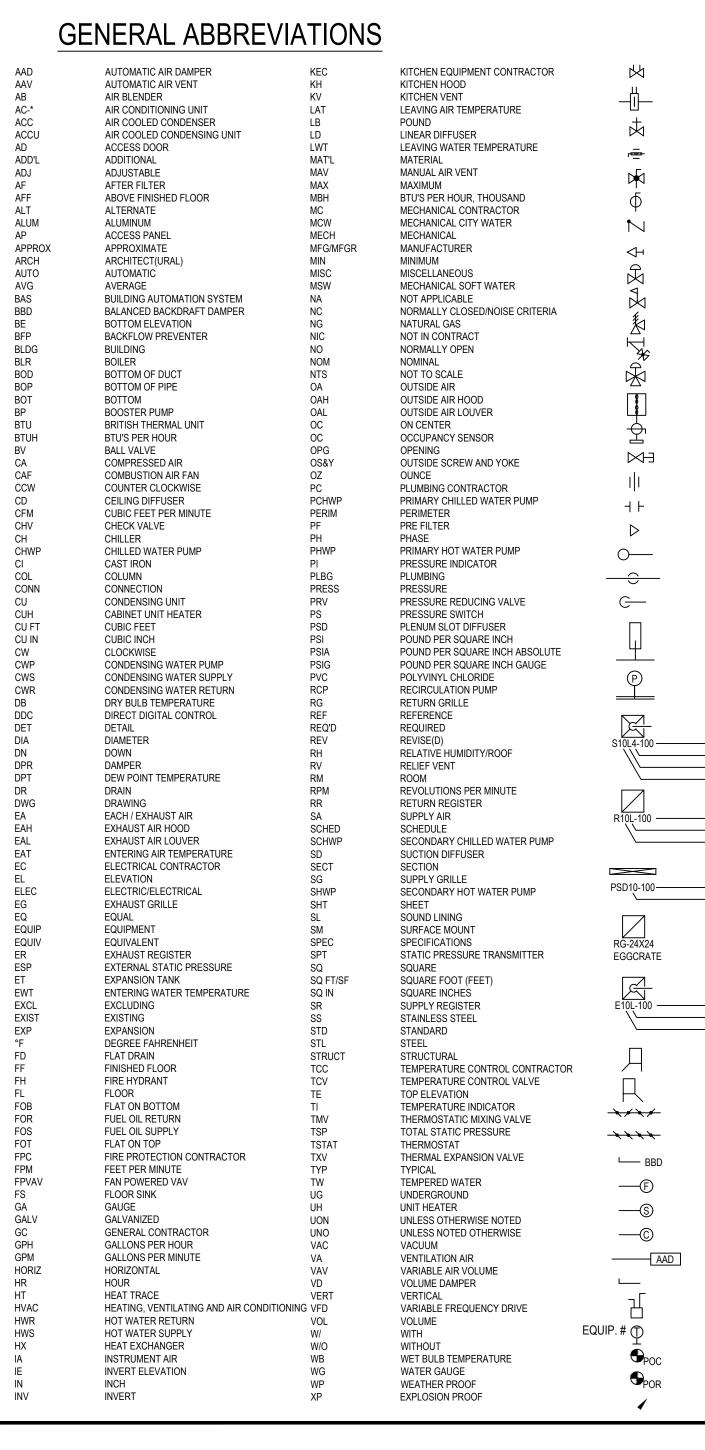
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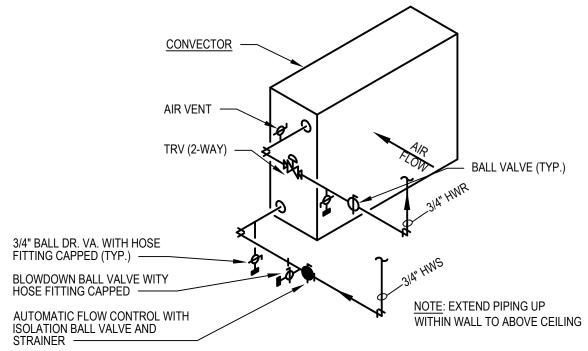
Xavier University Buenger Hall Renovation

3848 Ledgewood Drive Cincinnati, Ohio 45207 Project #: 16016

304 East Eighth Cincinnati OH 45202-223I v. (513) 665-9555 f. (513) 665-9857 glaserworks architecture & urban design 12/01/16 PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS: **Motz Engineering** 300 West 4th Street, Suite 300 Cincinnati, OH 45202-2666 T: 513.621.5400 F: 513.621.5407 MEP Design Security Sustainable Design Commissioning Design Build STRUCTURAL ENGINEERS: schaefer 10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 T: 513.542.3300 F: 513.542.5540 SHEET REVISION REV # DATE DESCRIPTION DESCRIPTION DATE BIDDING AND PERMIT 02/16/2017 **NEW WORK FOURTH FLOOR** MECHANICAL **PIPING PLAN MP104**







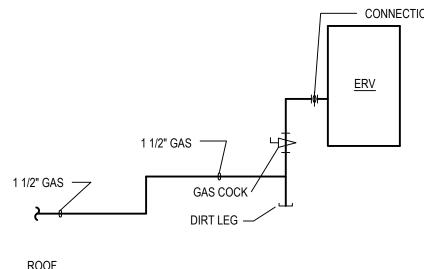


BALANCING VALVE CIRCUIT SENSOR (VENTURI)	(Π)	TEMPERATURE TRANSMITTER
	EQUIP. #	
		HUMIDITY TRANSMITTER
GATE VALVE	EQUIP. # S	CARBON DIOXIDE SENSOR
		FLEXIBLE CONNECTION
	~~~~	FLEXIBLE CONNECTION
BALL VALVE	<u> </u>	SQUARE ELBOW WITH TURNING VANES
GAS COCK		DUCT RISE IN DIRECTION OF AIR FLOW
TEMPERATURE REGULATING VALVE		DUCT DROP IN DIRECTION OF AIR FLOW
PRESSURE RELIEF VALVE		RECTANGULAR DUCT TO ROUND DUCT TRANSITION
RELIEF VALVE		INTERIOR LINED DUCTWORK
STRAINER	S-12X8	SUPPLY AIR (RECTANGULAR DUCT) R=RETURN, E=EXHAUST, OA=OUTSIDE AIR
3-WAY VALVE	S-12Ø	SUPPLY AIR (ROUND DUCT) R=RETURN, E=EXHAUST, OA=OUTSIDE AIR
WATER FLOW TRANSMITTER	SG-24X24	SUPPLY GRILLE - DUCT SIZE AND CFM INDICATED
	100 CFM	R=RETURN, E=EXHAUST, OA=OUTSIDE AIR
VALVE AND END CAP	X-XX-XX	VARIABLE AIR VENTILATOR RTU/AHU - FLOOR - VAV NUMBER
UNION	- <b>/-</b>	AIR FLOW DIRECTION
REDUCER	$\sum$	DUCT TURN DOWN
ELBOW UP		
PIPE TEE DOWN		DUCT TURN UP
ELBOW DOWN		
THERMOMETER		PRESSURE TEMPERATURE TESTING STATION
	CHWS	
PRESSURE GAUGE	CHWR	CHILLED WATER RETURN
	CWS	CONDENSING WATER SUPPLY
SUPPLY DIFFUSER — CFM	CWR	CONDENSING WATER RETURN
— CFM — BLOW: 1-WAY, 2-WAY, 4-WAY — CEILING TYPE: L=LAY-IN, D=DRYWALL	HWR	HOT WATER RETURN
	HWS	HOT WATER SUPPLY
RETURN DIFFUSER — CFM	DR	DRAIN
— CFM — CEILING TYPE: L=LAY-IN, D=DRYWALL — NECK SIZE (ROUND DUCT)	RHG	REFRIGERANT HOT GAS
	RL	REFRIGERANT LIQUID
PLENUM SLOT DIFFUSER — CFM	RS	REFRIGERANT SUCTION
NECK SIZE (ROUND DUCT)		NEW DUCT OR PIPING
RETURN GRILLE - DUCT SIZE INDICATED (EGGCRATE IF SPECIFIED)		EXISTING DUCT OR PIPING EXISTING DUCT OR PIPING TO BE REMOVED
EXHAUST DIFFUSER — CFM — CEILING TYPE: L=LAY-IN, D=DRYWALL — NECK SIZE (ROUND DUCT) DUCT TAP LEFT		
OPPOSED BLADE DAMPER PARALLEL BLADE DAMPER		
PARALLEL BLADE DAMPER		
BALANCED BACKDRAFT DAMPER		
SMOKE DAMPER (HORIZONTAL OR VERTICAL)		
COMBINATION SMOKE FIRE DAMPER		
AUTOMATIC AIR DAMPER		
MANUAL DAMPER		
STATIC PRESSURE TRANSMITTER		
THERMOSTAT OR TEMPERATURE SENSOR		
POINT OF CONNECTION		
POINT OF REMOVAL		
TIE POINT, LIMITS OF DEMOLITION		
UNIT HEATER AIR VENT		
TRV (2-WAY)	2012 314" HW	- BALL VALVE (TYP.) 冬
DOWN BALL VALVE WITY	314" HWS	
MATIC FLOW CONTROL WITH TION BALL VALVE AND		KTEND PIPING UP VALL TO ABOVE CEILING
TYPICAL UNIT HEATE	ER COIL PIPING D	

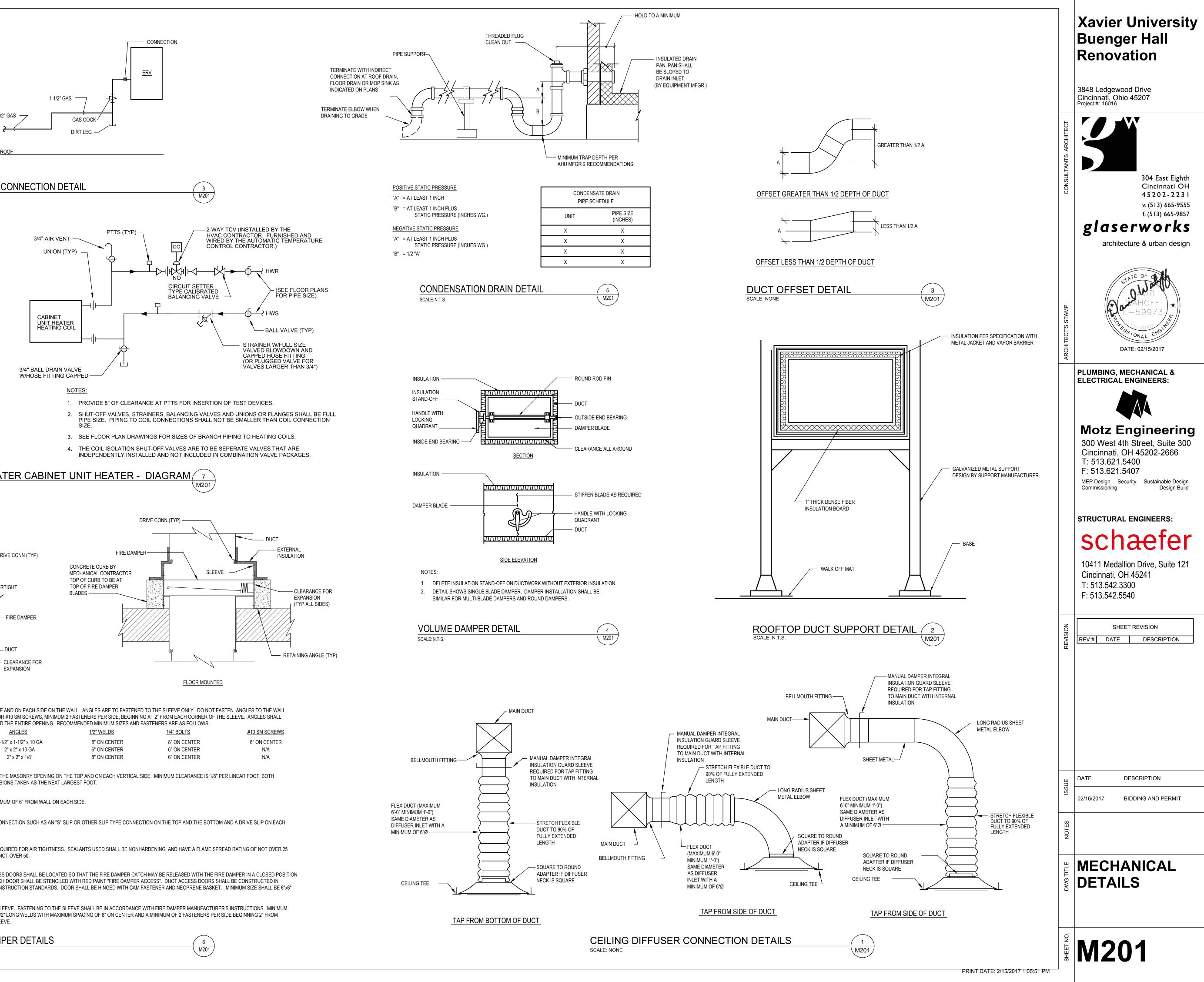
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# Xavier University Buenger Hall Renovation





#### **ERV GAS CONNECTION DETAIL** SCALE:N.T.S.



#### HOT WATER CABINET UNIT HEATER - DIAGRAM ( 7 SCALE: NONE

— FIRE WALL RETAINING ANGLE (TYP)-— DRIVE CONN (TYP) - SEAL AIRTIGHT - FIRE DAMPER SLEEVE-- DUCT CLEARANCE FOR EXPANSION WALL MOUNTED

#### **RETAINING ANGLES:**

CONTROL SYMBOL LEGEND

ANALOG INPUT SIGNAL

ANALOG OUTPUT SIGNAL

DIGITAL INPUT SIGNAL

DIGITAL OUTPUT SIGNAL

TEMPERATURE

TRANSMITTER

FLOW SWITCH

TRANSMITTER

SWITCH

SWITCH

TO SPILL OVER DRAIN

FLOW TRANSMITTER

DIFFERENTIAL PRESSURE

DIFFERENTIAL PRESSURE

CURRENT TRANSFORMER

AI

AO

DI

DO

(T)

FS

FT

DPS

DPT

CTS

INSTALL ON FOUR SIDES OF THE SLEEVE AND ON EACH SIDE ON THE WALL. ANGLES ARE TO FASTENED TO THE SLEEVE ONLY. DO NOT FASTEN ANGLES TO THE WALL. INSTALL 1/4" BOLTS, 1/2" LONG WELDS OR #10 SM SCREWS, MINIMUM 2 FASTENERS PER SIDE, BEGINNING AT 2" FROM EACH CORNER OF THE SLEEVE. ANGLES SHALL LAP MASONRY A MINIMUM OF 1" AROUND THE ENTIRE OPENING. RECOMMENDED MINIMUM SIZES AND FASTENERS ARE AS FOLLOWS: DIMENSIONS ANGLES 0" THRU 48" 1-1/2" x 1-1/2" x 10 GA

49" THRU 72" OVER 72"

**CLEARANCE FOR EXPANSION** REQUIRED BETWEEN THE SLEEVE AND THE MASONRY OPENING ON THE TOP AND ON EACH VERTICAL SIDE. MINIMUM CLEARANCE IS 1/8" PER LINEAR FOOT, BOTH DIMENSIONS, WITH FRACTIONAL DIMENSIONS TAKEN AS THE NEXT LARGEST FOOT.

#### **SLEEVES**

SHALL BE 10 GAUGE STEEL AND A MAXIMUM OF 6" FROM WALL ON EACH SIDE.

DRIVE CONNECTIONS: SHALL BE MADE WITH A BREAKAWAY CONNECTION SUCH AS AN "S" SLIP OR OTHER SLIP TYPE CONNECTION ON THE TOP AND THE BOTTOM AND A DRIVE SLIP ON EACH SIDE OF THE SLEEVE.

#### SEALANTS AND TAPE:

SHALL BE APPLIED TO THE JOINT AS REQUIRED FOR AIR TIGHTNESS. SEALANTS USED SHALL BE NONHARDENING AND HAVE A FLAME SPREAD RATING OF NOT OVER 25 AND A SMOKE DEVELOPED RATING OF NOT OVER 50.

DUCT ACCESS DOORS: INSTALL AT EACH FIRE DAMPER. ACCESS DOORS SHALL BE LOCATED SO THAT THE FIRE DAMPER CATCH MAY BE RELEASED WITH THE FIRE DAMPER IN A CLOSED POSITION AND THE FUSIBLE LINK REPLACED. EACH DOOR SHALL BE STENCILED WITH RED PAINT "FIRE DAMPER ACCESS". DUCT ACCESS DOORS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS. DOOR SHALL BE HINGED WITH CAM FASTENER AND NEOPRENE BASKET. MINIMUM SIZE SHALL BE 6"x6".

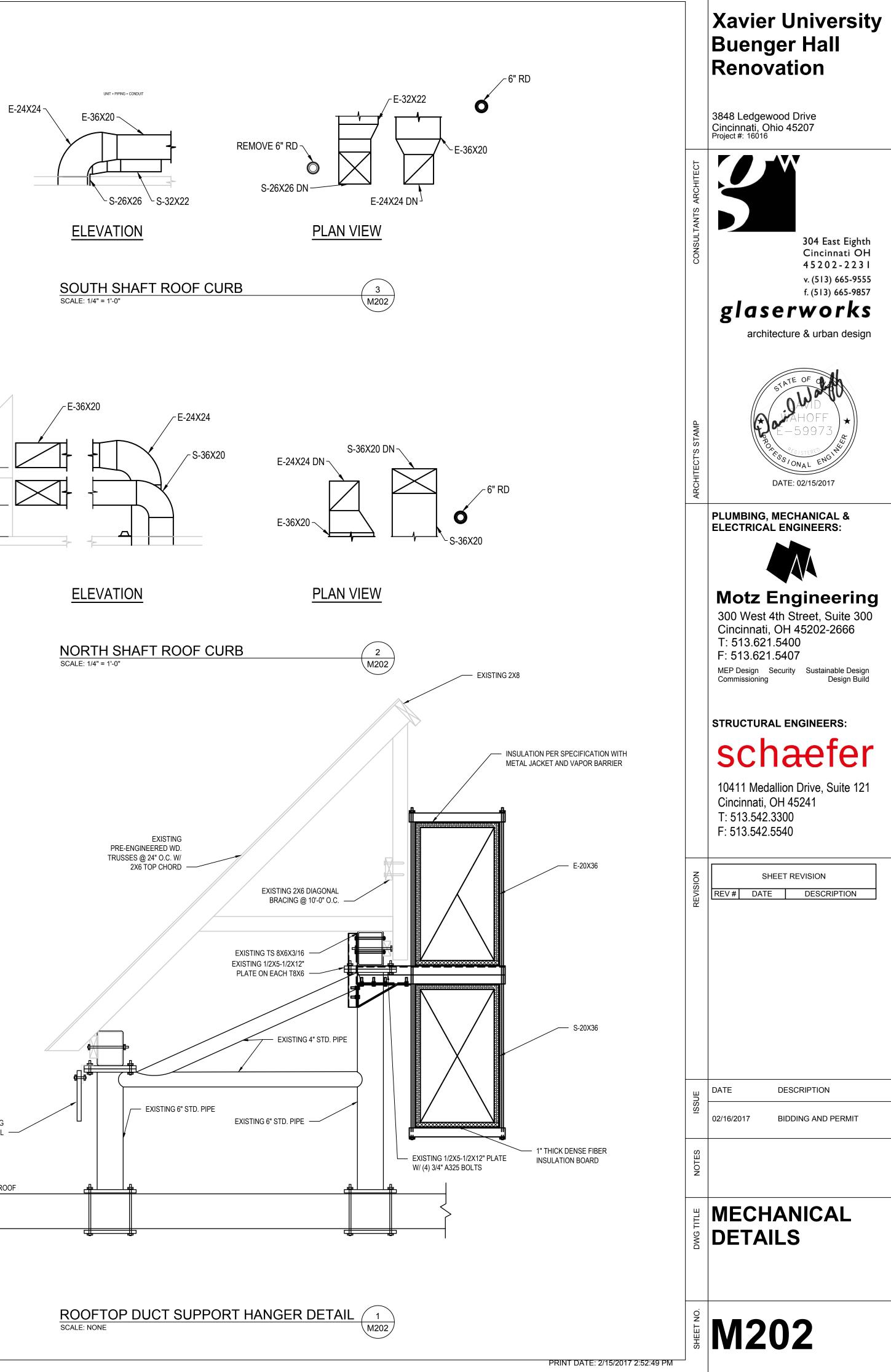
#### FIRE DAMPER FRAMES

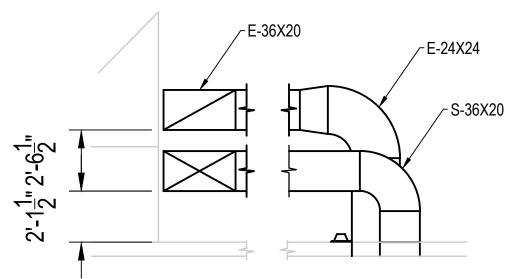
BOLT OR WELD TO THE FIRE DAMPER SLEEVE. FASTENING TO THE SLEEVE SHALL BE IN ACCORDANCE WITH FIRE DAMPER MANUFACTURER'S INSTRUCTIONS. MINIMUM FASTENINGS SHALL BE 1/4" BOLTS OR 1/2" LONG WELDS WITH MAXIMUM SPACING OF 8" ON CENTER AND A MINIMUM OF 2 FASTENERS PER SIDE BEGINNING 2" FROM THE CORNER OF THE FIRE DAMPER SLEEVE.

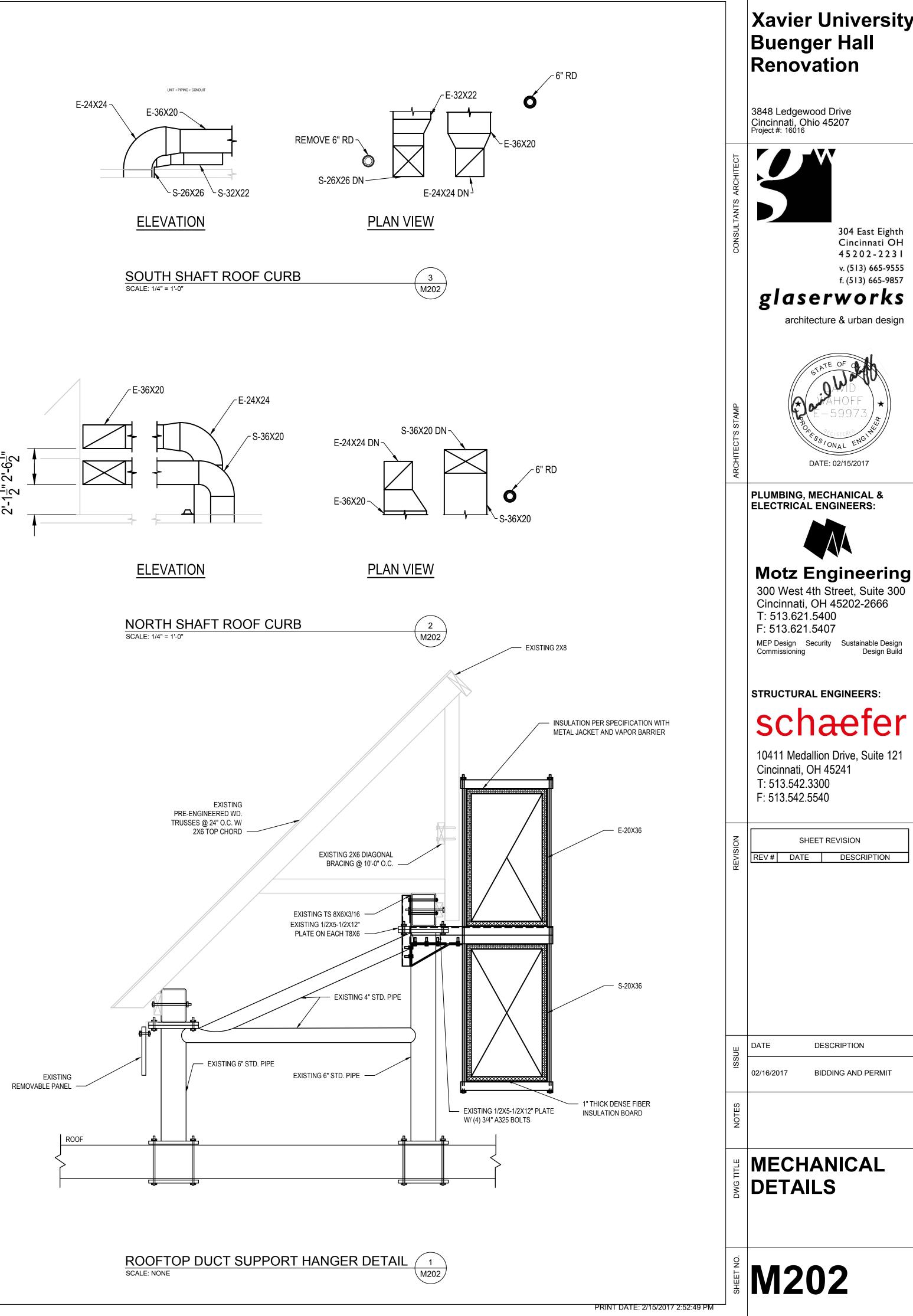


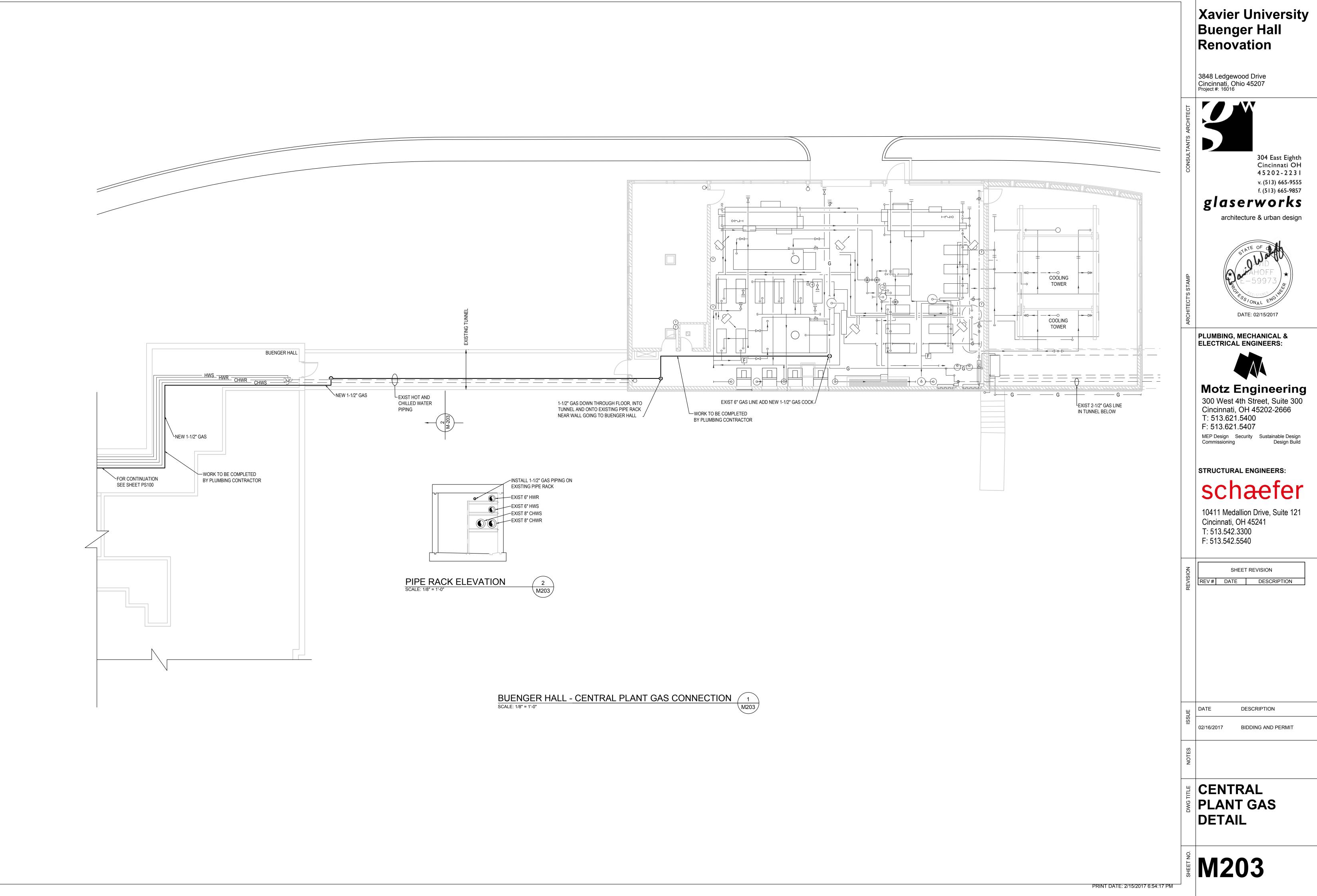












304 East Eighth Cincinnati OH

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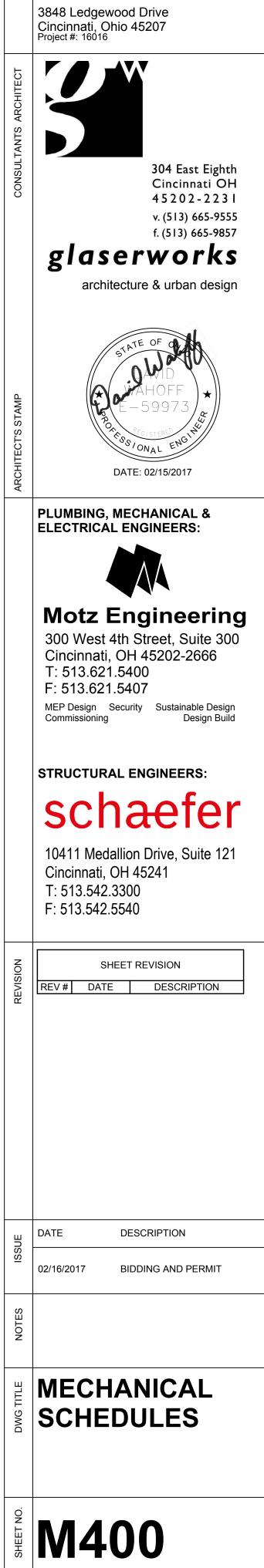
v. (513) 665-9555 f. (513) 665-9857

														FAN	COIL UNI	T SCHEDU	JLE										
	AIF	RFLOW DATA	L.					CHILLE	ED WATER CO	IL DATA							HOT WA	TER COIL DATA					ELE	CTRICAL DATA			
DESIGNATION	ACTUAL	FAN	ESP	NO. OF	EAT (I	Deg F)	EWT	FLOW	TOTAL	SENSIBLE	LAT (DB)	LWT	WPD	NO. OF	EAT	EWT	FLOW	CAPACITY	LAT	LWT	WPD	NO. OF	FLA	FLA	ELEC SUPPLY	MANUFACTURER	MODEL NO.
	CFM	SPEED	IN. WG.	ROWS	DB	WB	Deg. F	GPM	BTU/HR	BTU/HR	Deg. F	Deg. F	FT. WG.	ROWS	Deg. F	Deg. F	GPM	BTU/HR	Deg. F	Deg. F	FT. WG.	MOTORS	Amp (Ea)	(TOTAL)	VOLTS / PH / HZ		
FCU-1	200	HIGH	0.00	3	75	63	42	0.6	3960	3810	58	56	0.6	3	60	140	0.8	12260	112	110	1.3	1	2.75	2.75	115/1/60	TRANE	FCBB02
FCU-2	300	HIGH	0.00	3	75	63	42	0.7	4490	4490	59	56	0.8	3	60	140	1.0	14800	109	110	1.9	1	2.75	2.75	115/1/60	TRANE	FCBB03
FCU-3	400	HIGH	0.00	3	75	63	42	1.1	7450	6450	56	56	2.2	3	60	140	1.3	18990	112	110	3.3	1	2.75	2.75	115/1/60	TRANE	FCBB04
FCU-4	600	HIGH	0.00	4	75	63	42	1.7	11540	10130	55	56	1.5	4	60	140	2.2	32530	119	110	2.8	1	3.88	3.88	115/1/60	TRANE	FCBB06
FCU-5	###	HIGH	#.##	#	##	##	##	#.#	#####	#####	##	##	#.#	#	##	###	#.#	#####	###	###	#.#	#	#.#	#VALUE!	###/#/##	TRANE	######
FCU-6	###	HIGH	#.##	#	##	##	##	#.#	#####	#####	##	##	#.#	#	##	###	#.#	#####	###	###	#.#	#	#.#	#VALUE!	###/#/##	TRANE	######
FCU-7	###	HIGH	#.##	#	##	##	##	#.#	#####	#####	##	##	#.#	#	##	###	#.#	#####	###	###	#.#	#	#.#	#VALUE!	###/#/##	TRANE	######
NOTE: 1. CONTRACTOR SHA																											
2. UNITS TO BE PROV					RM																						
3. UNITS TO BE SELEC																											
4. FCU-1-14 TO BE INT						I																					
5. PROVIDE ALL FCU'S																											

									OUTDO	OR AIR VENTILAT	TON SCHEDULE	: BASEMENT											
ROOM	ROOM	GROSS	NET	MAX. NO. OF	OUTSIDE AIR	OUTSIDE AIR	DESIGN	SHORT TERM	ACTUAL	AIR	INITIAL ZONE	SYSTEM	UNCORRECTED	DESIGN	OUTSIDE AIR	ACTUAL	ACTUAL		EXHAUST RE	QUIREMENTS		ACTUA	AL EXHAUST
NAME	NUMBER	FL AREA	FL AREA	OCCUPANTS	PER OCC.	PER FL AREA	NUMBER OF	OCCUPANT	NUMBER OF	SYSTEM	OUTSIDE AIR	OCCUPANT	OUTSIDE AIR	SUPPLY AIR	PRIMARY AIR	OA	OUTDOOR	NO. OF	CFM PER	CFM PER	REQUIRED	CONTINUOUS	INTERMITT
		(SQ. FT)	(SQ. FT)	(PER 1000 SF)	CFM	CFM/SQ.FT.	PEOPLE	DIVERSITY	PEOPLE	EFFECTIVENESS	CFM	DIVERSITY	CFM	CFM	RATIO, (Z p)	CFM	AIR %	FIXTURES	FIXTURE	SQ. FT.	CFM	CFM	CFM
CORRIDOR	001	829	829	0	0	0.06	0	100%	0	80%	62	100%	50	0	0.00	0	136.1%			0	0		
ELEVATOR LOBBY	002	231	231	10	5	0.06	3	100%	3	80%	36	100%	29	0	0.00	0	136.1%			0	0		
VENDING	004	85	85	50	5	0.12	5	100%	5	80%	44	100%	35	300	0.15	408	136.1%			0	0	300	
LAUNDRY	005	419	419	20	7.5	0.06	9	100%	9	80%	116	100%	93	2100	0.06	2857	136.1%			0	0	1925	
STUDY	006	248	248	5	5	0.06	2	100%	2	80%	31	100%	25	200	0.16	272	136.1%			0	0		
MUSIC ROOM	007	654	654	35	10	0.06	23	100%	23	80%	337	100%	269	200	1.68	272	136.1%			0	0		
LOADING DOCK	008	525	525	0	0	0.12	0	100%	0	80%	79	100%	63	0	0.00	0	136.1%			0	0		
WOMEN	009	98	98	0	0	0	0	100%	0	80%	0	100%	0	150	0.00	204	136.1%	2	50	0	100	150	
CUSTODIAN	010	126	126	0	0	0	0	100%	0	80%	0	100%	0	75	0.00	102	136.1%	2	50	0	100	75	
CUSTODIAN	011	125	125	0	0	0	0	100%	0	80%	0	100%	0	150	0.00	204	136.1%	3	50	0	150	150	
MEN	012	102	102	0	0	0	0	100%	0	80%	0	100%	0	150	0.00	204	136.1%	2	50	0	100	150	
STORAGE	013	637	637	0	0	0.12	0	100%	0	80%	96	100%	76	0	0.00	0	136.1%			0	0		
STORAGE	014	619	619	0	0	0.12	0	100%	0	80%	93	100%	74	0	0.00	0	136.1%			0	0		
STORAGE	016	492	492	0	0	0.12	0	100%	0	80%	74	100%	59	50	1.48	68	136.1%			0	0		
OFFICE	017	199	199	5	5	0.06	1	100%	1	80%	21	100%	17	0	0.00	0	136.1%			0	0		
KITCHEN	018	220	220	0	0	0	0	100%	0	80%	0	100%	0	100	0.00	136	136.1%			0	0		
TV ROOM	019	410	410	30	7.5	0.06	13	100%	13	80%	153	100%	122	0	0.00	0	136.1%			0	0		
REC ROOM	020	650	650	100	7.5	0.06	65	100%	65	80%	658	100%	527	0	0.00	0	136.1%			0	0		
STUDY ROOM	022	335	335	5	5	0.06	2	100%	2	80%	38	100%	30	200	0.19	272	136.1%			0	0		
STORAGE	023	61	61	0	0	0.12	0	100%	0	80%	9	100%	7	0	0.00	0	136.1%			0	0		
NORTHEAST STAIR	BO	299	299	0	0	0.06	0	100%	0	80%	22	100%	18	0	0.00	0	136.1%			0	0		
TOTAL	S:	7,364	7,364				123		123		1868		1494	3675	168.3%	5000						2750	0
e design number of people shown for each room is the estim		.,	.,					om Peak Occupancies =				Sum of Roo	om Supply Air Quantities =	3675	CFM	Uncorrected O	utdoor Air Flow	V ou =	1,494	CFM	1 1		
imum for each room per ASHRAE 62.1 in accordance to IM		he actual numbe	er of people					ak System Occupancy =	123				oply Fan Diversity Factor =	100%	2	Ventilation Effi		E v =	1 -	<b>0</b>	.1-2007, Table 6-3)		
sed on either the estimated actual occupancy or the short t							Occupa	nt Diversity Factor, (D) =	100%				System Supply Air Flow =	3675	CFM	Required OA F	,	V ot =		CFM			
e ventilation air calculations for this schedule are based on		62 in accordance	e to IMC Section 4	.03.2			Coupu									Actual Final O				CFM			

											ENERGY F	RECOVE	RY UNIT	SCHED	JLE								
					OUTDO	oor air fl	.OW						EXHA	UST AIR FL	OW			0.40					
	UNIT	AIR		SUM	IMER			WIN	NTER		AIR	SUN	1MER		WIN	TER		GAS	S DATA	ELE	CTRICAL DATA	CONTROL	
UNIT	WIEGHT	FLOW	EAT I	DEG F	LAT	DEG F	EAT	DEG F	LAT I	DEG F	FLOW	EAT	DEG F	EATI	DEG F	LAT I	DEG F	INPUT	OUTPUT	FLA	ELEC SUPPLY	METHOD	REMARKS
	LBS	CFM	DB	WB	DB	WB	DB	WB	DB	WB	CFM	DB	WB	DB	WB	DB	WB	(MBH)	(MBH)	Amp	VOLTS / PH / HZ		
RTU-1	8,357	12,000	94.0	78.0	82.2	69.0	0.0	-1.5	44.8	39.6	12,000	75.0	55.0	72.0	42.0	27.2	25.7	600	480	268.6	208/60/3		
ERV-1	240	575	94.0	78.0	78.6	66.6	0.0	-1.5	56.9	46.0	575	75.0	66.0	70.0	40.0	13.1	13.1	N/A	N/A	14.7	115/60/1		

Xavier University Buenger Hall Renovation



ROOM	ROOM	GROSS	NET	MAX. NO. OF	OUTSIDE AIR	OUTSIDE AIR	DESIGN	OUTDOOR A	ACTUAL	TON SCHEDULE: F	FLOOR 1	SYSTEM	UNCORRECTED	DESIGN	OUTSIDE AIR	ACTUAL	ACTUAL	Ι	EXHAUST RE			ACTUA	L EXHAUST
NAME	NUMBER	FL AREA	FL AREA	OCCUPANTS	PER OCC.	PER FL AREA	NUMBER OF	OCCUPANT	NUMBER OF	SYSTEM	OUTSIDE AIR	OCCUPANT	OUTSIDE AIR	SUPPLY AIR	PRIMARY AIR	OA	OUTDOOR	NO. OF	CFM PER	CFM PER	REQUIRED	CONTINUOUS	INTERMIT
RA UNIT	101	(SQ. FT) 153	(SQ. FT) 153	(PER 1000 SF) 10	CFM 5	CFM/SQ.FT. 0.06	PEOPLE 2	DIVERSITY 100%	PEOPLE 2	EFFECTIVENESS 80%	CFM 24	DIVERSITY 100%	CFM 19	CFM 120	RATIO, (Z p) 0.20	CFM 153	AIR % 127.3%	FIXTURES	FIXTURE	SQ. FT.	CFM 0	CFM	CFM
BATHROOM	101A	33	33	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	127.3%	2	50	0	100	100	
UNIT BATHROOM 1	102 102A	290 24	290 24	10 0	5	0.06	3	100% 100%	3	80% 80%	41 0	100% 100%	32 0	110 0	0.37	140 0	127.3% 127.3%	1	50	0	0 50	۶n	
BATHROOM 1 BATHROOM 2	102A	32	32	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	127.3%	2	50	0	100	100	
BEDROOM 1	102C	108	108	10	5	0.06	2	100%	2	80%	21	100%	16	30	0.69	38	127.3%			0	0		
BEDROOM 2	102D	108	108	10 10	5	0.06	2	100%	2	80%	21	100%	16	30	0.69	38	127.3%			0	0		
BEDROOM 3 UNIT	102E 103	101 265	101 265	10	5	0.06	2	100% 100%	3	80% 80%	20	100% 100%	31	80	0.67 0.48	102	127.3% 127.3%			0	0		
BATHROOM 1	103A	64	64	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	127.3%	2	50	0	100	100	
BATHROOM 2	103B	24 144	24 144	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	127.3% 127.3%	1	50	0	50	80	
BEDROOM 1 BEDROOM 2	103C 103D	144	144	10	5	0.06	2	100% 100%	2	80% 80%	23 20	100% 100%	19	30	0.78 0.67	38	127.3%			0	0		
BEDROOM 3	103E	112	112	10	5	0.06	2	100%	2	80%	21	100%	17	30	0.70	38	127.3%			0	0		
BEDROOM 4	103F	135	135	10	5	0.06	2	100%	2	80%	23	100%	18	30	0.75	38	127.3%			0	0		
UNIT BATHROOM 1	104 104A	265 31	265 31	10 0	0	0.06	3	100% 100%	3	80% 80%	39 0	100% 100%	31 0	0	0.28	178 0	127.3% 127.3%	1	50	0	0 50	80	
BATHROOM 2	104B	30	30	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	127.3%	2	50	0	100	100	
BEDROOM 1	104C	140	140	10	5	0.06	2	100%	2	80%	23	100%	18	30	0.77	38	127.3%			0	0		
BEDROOM 2 UNIT	104D 105	140 266	140 266	10	5	0.06	2	100% 100%	2	80% 80%	23	100% 100%	18	30 140	0.77 0.28	38 178	127.3% 127.3%			0	0		
BATHROOM 1	105A	33	33	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	127.3%	1	50	0	50	80	
BATHROOM 2	105B	31	31	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	127.3%	2	50	0	100	100	
BEDROOM 1	105C	140	140	10	5	0.06	2	100%	2	80%	23	100%	18	30	0.77	38	127.3%			0	0		
BEDROOM 2 UNIT	105D 106	140 266	140 266	10 10	5	0.06	2 3	100% 100%	2 3	80% 80%	23 39	100% 100%	31	30 140	0.77 0.28	38 178	127.3% 127.3%			0	0		
BATHROOM 1	106A	31	31	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	127.3%	1	50	0	50	80	
BATHROOM 2	106B	31	31	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	127.3%	2	50	0	100	100	
BEDROOM 1 BEDROOM 2	106C 106D	140 140	140 140	10 10	5	0.06	2	100% 100%	2	80% 80%	23	100% 100%	18 18	30 30	0.77	38	127.3% 127.3%			0	0		
UNIT	107	274	274	10	5	0.06	3	100%	3	80%	39	100%	31	140	0.28	178	127.3%			0	0		
BATHROOM 1	107A	28	28	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	127.3%	1	50	0	50	80	
BATHROOM 2 BEDROOM 1	107B 107C	31 142	31 142	0	0	0	0	100% 100%	0	80% 80%	0 23	100% 100%	0 19	0	0.00	0	127.3% 127.3%	2	50	0	100 0	100	
BEDROOM 2	107C	142	142	10	5	0.06	2	100%	2	80%	23	100%	19 19	30	0.78	38	127.3%			0	0		
UNIT	108	287	287	10	5	0.06	3	100%	3	80%	40	100%	32	110	0.37	140	127.3%			0	0		
BATHROOM 1 BATHROOM 2	108A 108B	31 31	31 31	0	0	0	0	100% 100%	0	80% 80%	0	100%	0	0	0.00	0	127.3% 127.3%	1 2	50 50	0	50 100	80	
BEDROOM 1	108B	140	140	10	5	0.06	2	100%	2	80%	23	100%	18	30	0.00	38	127.3%	<u> </u>	50	0	0		
BEDROOM 2	108D	138	138	10	5	0.06	2	100%	2	80%	23	100%	18	30	0.76	38	127.3%			0	0		
BEDROOM 3 CONFERENCE	108E 110	140 483	140 483	10 50	5	0.06	2 25	100% 100%	2 25	80% 80%	23 192	100% 100%	18 154	30 200	0.77	38 255	127.3% 127.3%			0	0		
RA UNIT	111	483	483	10	5	0.06	25	100%	25	80%	24	100%	154	120	0.96	153	127.3%			0	0		
BATHROOM	111A	33	33	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	127.3%	2	50	0	100	100	
UNIT	112	289	289	10	5	0.06	3	100%	3	80%	40	100%	32	110	0.37	140	127.3%			0	0		
BATHROOM 1 BATHROOM 2	112A 112B	24 32	24 32	0	0	0	0	100% 100%	0	80% 80%	0	100% 100%	0	0	0.00	0	127.3% 127.3%	1	50 50	0	50 100	80	
BEDROOM 1	112C	107	107	10	5	0.06	2	100%	2	80%	21	100%	16	30	0.68	38	127.3%			0	0	100	
BEDROOM 2	112D	107	107	10	5	0.06	2	100%	2	80%	21	100%	16	30	0.68	38	127.3%			0	0		
BEDROOM 3 UNIT	112E 113	101 264	101 264	10	5	0.06	2	100% 100%	2	80% 80%	20	100% 100%	16 31	30 80	0.67	38 102	127.3% 127.3%			0	0		
BATHROOM 1	113A	64	64	0	0	0.00	0	100%	0	80%	0	100%	0	0	0.48	0	127.3%	2	50	0	100	100	
BATHROOM 2	113B	24	24	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	127.3%	1	50	0	50	80	
BEDROOM 1 BEDROOM 2	113C 113D	143 102	143 102	10 10	5	0.06	2	100% 100%	2	80% 80%	23	100% 100%	19	30	0.77	38	127.3% 127.3%			0	0		
BEDROOM 3	113E	102	102	10	5	0.06	2	100%	2	80%	20	100%	17	30	0.69	38	127.3%			0	0		
BEDROOM 4	113F	135	135	10	5	0.06	2	100%	2	80%	23	100%	18	30	0.75	38	127.3%			0	0		
UNIT BATHROOM 1	114 114A	264	264	10	5	0.06	3	100% 100%	3	80% 80%	39	100% 100%	31	140	0.28	178	127.3% 127.3%	1	50	0	0 50	80	
BATHROOM 1 BATHROOM 2	114A 114B	30	30	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	127.3%	2	50	0	100	100	
BEDROOM 1	114C	140	140	10	5	0.06	2	100%	2	80%	23	100%	18	30	0.77	38	127.3%			0	0		
BEDROOM 2	114D	140	140 265	10	5	0.06	2	100%	2	80%	23	100%	18	30 140	0.77	38	127.3%			0	0		
UNIT BATHROOM 1	115 115A	265 33	265 33	0	о О	0.06	о О	100% 100%	3 0	80% 80%	<u> </u>	100% 100%	0	0	0.28	178 0	127.3% 127.3%	1	50	0	50	80	
BATHROOM 2	115R	31	31	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	127.3%	2	50	0	100	100	
BEDROOM 1	115C	140	140	10	5	0.06	2	100%	2	80%	23	100%	18	30	0.77	38	127.3%			0	0		
BEDROOM 2 UNIT	115D 116	140 265	140 265	10 10	5	0.06	2	100% 100%	2 3	80% 80%	23	100% 100%	18 31	30 140	0.77	38 178	127.3% 127.3%			0	U 0		
BATHROOM 1	116A	31	205 31	0	0	0	0	100%	0	80%	0	100%	0	0	0.28	0	127.3%	1	50	0	50	80	
BATHROOM 2	116B	31	31	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	127.3%	2	50	0	100	100	
BEDROOM 1 BEDROOM 2	116C 116D	140 140	140 140	10 10	5	0.06	2	100% 100%	2	80% 80%	23 23	100% 100%	18 18	30 30	0.77	38	127.3% 127.3%			0	0		
APARTMENT	1100	246	246	10	5	0.06	3	100%	3	80%	37	100%	30	110	0.34	140	127.3%			0	0		
BATHROOM 1	117A	40	40	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	127.3%	2	50	0	100	100	
BATHROOM 2 BEDROOM 1	117B 117C	31 124	31 124	0	0	0	0	100% 100%	0	80% 80%	0 22	100% 100%	0 17	0	0.00	0	127.3% 127.3%	1	50	0	50 0	80	
BEDROOM 2	117C	124	124	10	5	0.06	2	100%	2	80%	22	100%	20	60	0.43	76	127.3%			0	0		
KITCHEN	117E	96	96	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	127.3%			0.7	67		[
CORRIDOR	121A 121B	684 746	684 746	0	0	0.06	0	100% 100%	0	80% 80%	51 56	100%	41 45	0	0.00	0	127.3% 127.3%			0	0		
LOBBY	121B 122	970	746 970	10	5	0.06	10	100%	10	80%	135	100%	45 108	800	0.00	1018	127.3%	1		0	0		
JANITOR	123	33	33	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	127.3%			1	33		
LOUNGE	124	362	362	30	7.5	0.06	11	100%	11	80%	130	100%	104	150	0.87	191	127.3%			0	0		
TRASH LOUNGE	125 129	35 361	35 361	0 30	0 7.5	0.12	0 11	100% 100%	0	80% 80%	5 130	100% 100%	4 104	0 150	0.00 0.87	0 191	127.3% 127.3%			0	0		+
LOUNGE	130	466	466	30	7.5	0.06	14	100%	14	80%	166	100%	133	400	0.42	509	127.3%			0	0		
WOMEN	132	118	118	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	127.3%	1	50	0	50	100	
MEN OFFICE	134	116 165	116 165	0	0	0	0	100% 100%	0	80% 80%	0	100% 100%	0 15	160 200	0.00	204 255	127.3% 127.3%	1	50	0	50 0	100	
CLOSET	135 135A	10	10	0	0	0.08	0	100%	0	80%	2	100%	1	0	0.09	0	127.3%			0	0		
OFFICE	136	250	250	5	5	0.06	2	100%	2	80%	31	100%	25	0	0.00	0	127.3%			0	0		
	137	49	49	60	5	0.06	3	100%	3	80%	22	100%	18	50	0.45	64	127.3%			0	0		
VESITBULE	138 139	147 114	147 114	10 10	5	0.06	2	100% 100%	2	80% 80%	24	100% 100%	19 17	0	0.00	0	127.3% 127.3%			U 0	U 0		<u> </u>
NORTHWEST STAIR	A1	114	114	0	0	0.06	0	100%	0	80%	15	100%	17	0	0.00	0	127.3%			0	0		
NORTHEAST STAIR	B1	198	198	0	0	0.06	0	100%	0	80%	15	100%	12	0	0.00	0	127.3%			0	0		
SOUTHEAST STAIR SOUTHWEST STAIR	C1 D1	198 197	198 197	0	0	0.06	0	100% 100%	0	80% 80%	15	100% 100%	12 12	0	0.00	0	127.3% 127.3%			0	0		
SUUTIWEST STAIK	ויט	197	191	U	U	υ.υσ	U	100%	U	0070	10	100%	ΙΖ	U	0.00	0	121.3%			U			
					1	1									WORST CASE	1		<b>İ</b>					<u> </u>
	TOTALS:	15,026	15,026				190 Sum of Roc	m Poek Occurrentie	190		2334	0	1867 m Supply Air Quantities =	4950	96.2%	6300			4.007			2740	0
donign number of search the state	e esumated							om Peak Occupancies =	190				m Supply Air Quantities = ply Fan Diversity Factor =	4950 100%	CFM	Uncorrected C Ventilation Eff	Outdoor Air Flow	V ou =					
design number of people shown for each room is th mum for each room per ASHRAE 62.1 in accordanc		e actual number	of people					ak System Occupancy =	190			SU	ply Fan Diversity Factor =	1101/0		VGIIIIICIIIIIII		E v =	11 411		1-2007, Table 6-3)		

# Xavier University Buenger Hall Renovation 3848 Ledgewood Drive Cincinnati, Ohio 45207 Project #: 16016 304 East Eighth Cincinnati OH 45202-223 I v. (513) 665-9555 f. (513) 665-9857 glaserworks architecture & urban design DATE: 02/15/2017 PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS: Motz Engineering 300 West 4th Street, Suite 300 Cincinnati, OH 45202-2666 T: 513.621.5400 F: 513.621.5407 MEP Design Security Sustainable Design Commissioning Design Build STRUCTURAL ENGINEERS: schæfer 10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 T: 513.542.3300 F: 513.542.5540 SHEET REVISION REV # DATE DESCRIPTION DESCRIPTION DATE BIDDING AND PERMIT 02/16/2017 ò

SHEEL NO.

ROOM	ROOM	GROSS	NET	MAX. NO. OF	OUTSIDE AIR	OUTSIDE AIR	DESIGN	SHORT TERM	ACTUAL		TION SCHEDUI	.E: FLOOR 2 SYSTEM	UNCORRECTED	DESIGN	OUTSIDE AIR	ACTUAL	ACTUAL		EYUALIOT DE	QUIREMENTS	<u> </u>		AL EXHAUST
ROOM NAME	ROOM NUMBER	FL AREA	FL AREA	MAX. NO. OF OCCUPANTS (PER 1000 SF)	OUTSIDE AIR PER OCC. CFM	OUTSIDE AIR PER FL AREA CFM/SQ.FT.	DESIGN NUMBER OF PEOPLE	OCCUPANT DIVERSITY	ACTUAL NUMBER OF PEOPLE	AIR SYSTEM EFFECTIVENESS	INITIAL ZONE OUTSIDE AIR CFM	OCCUPANT DIVERSITY	UNCORRECTED OUTSIDE AIR CFM	DESIGN SUPPLY AIR CFM	PRIMARY AIR	OA CFM	ACTUAL OUTDOOR AIR %	NO. OF FIXTURES	CFM PER FIXTURE	CFM PER SQ. FT.	REQUIRED CFM	CONTINUOUS CFM	AL EXHAUST INTERMIT CFM
RA UNIT	201	(SQ. FT) 153	(SQ. FT) 153	(PER 1000 SF) 10	5	0.06	2	100%	2	80%	24	100%	19	120	RATIO, (Z p) 0.20	196	163.5%	TIXTORES		0	0		
BATHROOM UNIT	201A 202	33 290	33 290	0 10	0	0 0.06	0 3	100% 100%	0	80% 80%	0 41	100%	0 32	0 110	0.00	0 180	163.5% 163.5%	2	50	0	100 0	100	
BATHROOM 1	202A	24	24	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	163.5%	1	50	0	50	80	
BATHROOM 2 BEDROOM 1	202B 202C	32 108	32 108	0	0	0 0.06	0	100%	0	80% 80%	0 21	100%	0 16	0 30	0.00	0 49	163.5% 163.5%	2	50	0	100	100	
BEDROOM 2	2020 202D	108	108	10	5	0.00	2	100%	2	80%	21	100%	16	30	0.69	49	163.5%			0	0		
BEDROOM 3	202E	101	101	10	5	0.06	2	100%	2	80%	20	100%	16	30	0.67	49	163.5%			0	0		
UNIT BATHROOM 1	203 203A	265 64	265 64	10	5	0.06	3	100% 100%	3	80% 80%	39	100%	31 0	80	0.48	131	163.5% 163.5%	2	50	0	0	100	
BATHROOM 2	203B	24	24	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	163.5%	1	50	0	50	80	
BEDROOM 1	203C	144	144	10	5	0.06	2	100%	2	80%	23	100%	19	30	0.78	49	163.5%			0	0		
BEDROOM 2 BEDROOM 3	203D 203E	103 112	103 112	10	5	0.06	2	100% 100%	2	80% 80%	20 21	100%	16 17	30 30	0.67	49 49	163.5% 163.5%			0	0		
BEDROOM 4	203F	135	135	10	5	0.06	2	100%	2	80%	23	100%	18	30	0.75	49	163.5%			0	0		
UNIT BATHROOM 1	204 204A	265 31	265 31	10	5	0.06	3	100% 100%	3	80% 80%	39 0	100% 100%	31	140 0	0.28	229 0	163.5% 163.5%	1	50	0	0 50	80	
BATHROOM 2	204A 204B	30	30	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	163.5%	2	50	0	100	100	
BEDROOM 1	204C	140	140	10	5	0.06	2	100%	2	80%	23	100%	18	30	0.77	49	163.5%			0	0		
BEDROOM 2 UNIT	204D 205	140 266	140 266	10	5	0.06	2	100% 100%	2	80% 80%	23 39	100%	18 31	30 140	0.77	49 229	163.5% 163.5%			0	0		
BATHROOM 1	205A	33	33	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	163.5%	1	50	0	50	80	
BATHROOM 2	205B	31	31	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	163.5%	2	50	0	100	100	
BEDROOM 1 BEDROOM 2	205C 205D	140 140	140	10	5	0.06	2	100% 100%	2	80% 80%	23	100%	18 18	30 30	0.77	49 49	163.5% 163.5%			0	0		
UNIT	206	266	266	10	5	0.06	3	100%	3	80%	39	100%	31	140	0.28	229	163.5%			0	0		
BATHROOM 1	206A	31	31	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	163.5%	1	50	0	50	80	
BATHROOM 2 BEDROOM 1	206B 206C	31 140	31 140	0 10	U 5	0 0.06	U 2	100% 100%	0 2	80% 80%	0 23	100% 100%	0 18	0 30	0.00	0 49	163.5% 163.5%	2	50	0	100 0	U8	
BEDROOM 2	206D	140	140	10	5	0.06	2	100%	2	80%	23	100%	18	30	0.77	49	163.5%			0	0		
UNIT BATHROOM 1	207 207A	274 28	274 28	10	5	0.06	3	100% 100%	3	80% 80%	39 0	100% 100%	31 0	140 0	0.28	229 0	163.5% 163.5%	1	50	0	0	80	
BATHROOM 1 BATHROOM 2	207A 207B	28 31	28 31	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	163.5%	2	50 50	0	100	100	
BEDROOM 1	207C	142	142	10	5	0.06	2	100%	2	80%	23	100%	19	30	0.77	49	163.5%			0	0		
BEDROOM 2 UNIT	207D 208	144 387	144 387	10 10	5	0.06	2	100%	2 4	80% 80%	23 54	100%	19 43	30 110	0.78	49 180	163.5% 163.5%			0	0		
BATHROOM 1	208A	31	307	0	0	0	0	100%	0	80%	0	100%	0	0	0.49	0	163.5%	1	50	0	50	80	
BATHROOM 2	208B	31 140	31	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	163.5%	2	50	0	100	100	
BEDROOM 1 BEDROOM 2	208C 208D	140 138	140 138	10	5 5	0.06	2	100% 100%	2	80% 80%	23 23	100% 100%	18 18	30 30	0.77 0.76	49 49	163.5% 163.5%			0	0		
BEDROOM 3	208E	140	140	10	5	0.06	2	100%	2	80%	23	100%	18	30	0.77	49	163.5%			0	0		
CHAPEL UNIT	209	625 262	625 262	120	5	0.06	75	100%	75	80%	516 38	100%	413	200 140	2.58 0.27	327 229	163.5% 163.5%			0	0		
BATHROOM 1	210 210A	33	33	0	0	0.00	0	100%	0	80%	0	100%	0	0	0.00	0	163.5%	2	50	0	100	100	
BATHROOM 2	210B	30	30	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	163.5%	1	50	0	50	80	
BEDROOM 1 BEDROOM 2	210C 210D	140 147	140	10	5	0.06	2	100%	2	80%	23	100%	18 19	30 30	0.77	49 49	163.5% 163.5%			0	0		
RA UNIT	2105	147	147	10	5	0.00	2	100%	2	80%	24	100%	19	120	0.20	196	163.5%			0	0		
BATHROOM	211A	33	33	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	163.5%	2	50	0		100	
UNIT BATHROOM 1	212 212A	290 24	290 24	10	5	0.06	3	100% 100%	3	80% 80%	41	100%	32	110	0.37	180	163.5% 163.5%	1	50	0	0 50	80	
BATHROOM 2	212A 212B	32	32	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	163.5%	2	50	0	100	100	
BEDROOM 1	212C	108	108	10	5	0.06	2	100%	2	80%	21	100%	16	30	0.69	49	163.5%			0	0		
BEDROOM 2 BEDROOM 3	212D 212E	108 101	108	10	5	0.06	2	100%	2	80% 80%	21 20	100%	16 16	30 30	0.69	49	163.5% 163.5%			0	0		
UNIT	213	265	265	10	5	0.06	3	100%	3	80%	39	100%	31	80	0.48	131	163.5%			0	0		
BATHROOM 1 BATHROOM 2	213A	24	24 64	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	163.5% 163.5%	1	50 50	0	50 100	80	
BEDROOM 1	213B 213C	64 144	144	10	5	0.06	2	100% 100%	2	80% 80%	23	100%	19	30	0.78	49	163.5%	2	50	0	0	100	
BEDROOM 2	213D	102	102	10	5	0.06	2	100%	2	80%	20	100%	16	30	0.67	49	163.5%			0	0		
BEDROOM 3 BEDROOM 4	213E 213F	112 135	112 135	10	5	0.06	2	100%	2	80% 80%	21 23	100%	17 18	30 30	0.70	49 49	163.5% 163.5%			0	0		
UNIT	213	265	265	10	5	0.06	3	100%	3	80%	39	100%	31	140	0.28	229	163.5%			0	0		
BATHROOM 1	214A	31	31	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	163.5%	1	50	0	50	80	
BATHROOM 2 BEDROOM 1	214B 214C	30 140	30 140	0	0	0 0.06	0	100%	0	80% 80%	0 23	100%	0	0 30	0.00	0 49	163.5% 163.5%	2	50	0	100 0	100	
BEDROOM 1 BEDROOM 2	214C 214D	140	140	10	5	0.06	2	100%	2	80%	23	100%	18	30 30	0.77	49	163.5%			0	0		
UNIT	215	266	266	10	5	0.06	3	100%	3	80%	39	100%	31	140	0.28	229	163.5%			0	0		
BATHROOM 1 BATHROOM 2	215A 215B	33 31	33 31	0 0	0	0	0	100%	0	80% 80%	0	100%	0	0	0.00	0	163.5% 163.5%	1	50 50	0 0	50 100	80	
BEDROOM 1	215B 215C	140	140	10	5	0.06	2	100%	2	80%	23	100%	18	30	0.00	49	163.5%			0	0		
BEDROOM 2	215D	140	140	10	5	0.06	2	100%	2	80%	23	100%	18	30	0.77	49	163.5%			0	0		
UNIT BATHROOM 1	216 216A	266 31	266 31	10 0	5	0.06	3	100%	3	80%	39 0	100%	31 0	140 0	0.28	229 0	163.5% 163.5%	1	50	0	0 50	80	
BATHROOM 2	216B	31	31	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	163.5%	2	50	0	100	100	
BEDROOM 1	216C	140 140	140	10	5	0.06	2	100%	2	80%	23	100%	18 18	30 30	0.77	49	163.5% 163.5%			0	0		
BEDROOM 2 UNIT	216D 217	140 274	140 274	10	5 5	0.06	∠ 3	100% 100%	∠ 3	80% 80%	23 39	100% 100%	18 31	30 140	0.77	49 229	163.5% 163.5%			0	0		
BATHROOM 1	217A	28	28	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	163.5%	1	50	0	50	100	
BATHROOM 2 BEDROOM 1	217B 217C	31 142	31 142	0	0	0 0.06	0	100% 100%	0	80% 80%	0 23	100% 100%	0	0	0.00	0 49	163.5% 163.5%	2	50	0	100	100	
BEDROOM 1 BEDROOM 2	217C 217D	142 144	142	10	5	0.06	2	100%	2	80% 80%	23	100%	19 19	30 30	0.77	49 49	163.5% 163.5%			0	0		
UNIT	218	262	262	10	5	0.06	3	100%	3	80%	38	100%	31	140	0.27	229	163.5%			0	0		
BATHROOM 1 BATHROOM 2	218A 218B	31 30	31 30	0	0	0	0	100% 100%	U 0	80% 80%	0	100% 100%	0	0	0.00	0	163.5% 163.5%	1	50 50	0	50 100	80	
BEDROOM 1	218C	140	140	10	5	0.06	2	100%	2	80%	23	100%	18	30	0.77	49	163.5%			0	0		
BEDROOM 2	218D	140 285	140	10	5	0.06	2	100%	2	80%	23	100%	18	30	0.77	49	163.5%			0	0		
UNIT BATHROOM	219 219A	285 29	285 29	0	5 0	0.06	3 0	100% 100%	3 0	80% 80%	40 0	100% 100%	32 0	200 0	0.20	327 0	163.5% 163.5%	2	50	0	0 100	100	
BEDROOM	219B	179	179	10	5	0.06	2	100%	2	80%	26	100%	21	120	0.22	196	163.5%			0	0		
KITCHEN CORRIDOR	219C 221	103 1,681	103 1,681	0	0	0 0.06	0	100% 100%	0	80% 80%	0 126	100% 100%	0	0	0.00	0	163.5% 163.5%			0	0		
ELEVATOR LOBBY	221	1,681	1,681	10	5	0.06	2	100%	2	80%	24	100%	101 19	0	0.00	0	163.5%			0	0		
JANITOR	223	33	33	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	163.5%			1	33	100	
LOUNGE	224 225	362 35	362 35	30	7.5	0.06	11 0	100% 100%	0	80% 80%	130 5	100% 100%	104 4	150 50	0.87	245 82	163.5% 163.5%			0	0	50	
TRASH	225	35	35 35	0	0	0.12	0	100%	0	80%	5	100%	4	50 50	0.11	82	163.5%			0	0	50	
LOUNGE	229	362	362	30	7.5	0.06	11	100%	11	80%	130	100%	104	150	0.87	245	163.5%			0	0		
NORTHWEST STAIR NORTHEAST STAIR	A2 B2	198 198	198 198	0	0	0.06	0	100%	0	80%	15 15	100%	12 12	0	0.00	0	163.5% 163.5%			0	0		
SOUTHEAST STAIR	B2 C2	198 198	198 198	0	0	0.06 0.06	0	100% 100%	0	80% 80%	15 15	100% 100%	12 12	0	0.00	0	163.5% 163.5%			0	0		
SOUTWEST STAIR	D2	198	198	0	0	0.06	0	100%	0	80%	15	100%	12	0	0.00	0	163.5%			0	0		
	TOTALS:	15,027	15,027				228		228		2536		2029	4160	WORST CASE 257.8%	6800						3200	^
		10,021	10,021	I	1	1		om Peak Occupancies =	228		2000	Sum of Roo	m Supply Air Quantities =		257.8% CFM		Dutdoor Air Flow	V ou =	2,029	CFM	<u> </u>		
sign number of people shown for each room i m for each room per ASHRAE 62.1 in accord														100%									

## Xavier University Buenger Hall Renovation 3848 Ledgewood Drive Cincinnati, Ohio 45207 Project #: 16016 304 East Eighth Cincinnati OH 45202-223 I v. (513) 665-9555 f. (513) 665-9857 glaserworks architecture & urban design DATE: 02/15/2017 PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS: Motz Engineering 300 West 4th Street, Suite 300 Cincinnati, OH 45202-2666 T: 513.621.5400 F: 513.621.5407 MEP Design Security Sustainable Design Commissioning Design Build STRUCTURAL ENGINEERS: schæfer 10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 T: 513.542.3300 F: 513.542.5540 SHEET REVISION REV # DATE DESCRIPTION DESCRIPTION DATE BIDDING AND PERMIT 02/16/2017 ò

**M402** 

ROOM	ROOM	GROSS	NET	MAX. NO. OF	OUTSIDE AIR	OUTSIDE AIR	DESIGN	SHORT TERM	ACTUAL		INITIAL ZONE	SYSTEM	UNCORRECTED	DESIGN	OUTSIDE AIR	ACTUA
NAME	NUMBER	FL AREA (SQ. FT)	FL AREA (SQ. FT)	OCCUPANTS (PER 1000 SF)	PER OCC. CFM	PER FL AREA CFM/SQ.FT.	NUMBER OF PEOPLE	OCCUPANT	NUMBER OF PEOPLE	SYSTEM EFFECTIVENESS	OUTSIDE AIR CFM	OCCUPANT DIVERSITY	OUTSIDE AIR CFM	SUPPLY AIR CFM	PRIMARY AIR RATIO, (Z p)	OA CFM
RA UNIT BATHROOM	301 301A	153 33	153 33	10 0	5	0.06	2	100%	2	80% 80%	24 0	100%	19 0	120 0	0.20	176 0
UNIT	302	290	290	10	5	0.06	3	100%	3	80%	41	100%	32	110	0.37	161
BATHROOM 1 BATHROOM 2	302A 302B	24 32	24 32	0	0	0	0	100%	0	80% 80%	0	100%	0	0	0.00	0
BEDROOM 1	302C	108	108	10	5	0.06	2	100%	2	80%	21	100%	16	30	0.69	44
BEDROOM 2 BEDROOM 3	302D 302E	108 101	108 101	10 10	5 5	0.06	2 2	100%	2	80% 80%	21 20	100%	16 16	30 30	0.69 0.67	44 44
UNIT	303	265	265	10	5	0.06	3	100%	3	80%	39	100%	31	80	0.48	117
BATHROOM 1 BATHROOM 2	303A 303B	64 24	64 24	0	0	0	0	100%	0	80% 80%	0	100%	0	0	0.00	0
BEDROOM 1	303C	144	144	10	5	0.06	2	100%	2	80%	23	100%	19	30	0.78	44
BEDROOM 2 BEDROOM 3	303D 303E	103 112	103 112	10 10	5	0.06	2 2	100%	2	80% 80%	20 21	100%	16 17	30 30	0.67	44
BEDROOM 4	303F	135	135	10	5	0.06	2	100%	2	80%	23	100%	18	30	0.75	44
UNIT BATHROOM 1	304 304A	265 31	265 31	10	5	0.06	3	100%	3	80% 80%	39 0	100% 100%	31 0	140 0	0.28	205
BATHROOM 2	304A 304B	30	30	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0
BEDROOM 1	304C	140	140	10	5	0.06	2	100%	2	80%	23	100%	18	30	0.77 0.77	44
BEDROOM 2 UNIT	304D 305	140 266	140 266	10 10	5 5	0.06	2 3	100% 100%	2 3	80% 80%	23 39	100% 100%	18 31	30 140	0.28	44 205
BATHROOM 1	305A	33	33	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0
BATHROOM 2 BEDROOM 1	305B 305C	31 140	31 140	0 10	0 5	0.06	0 2	100%	0	80% 80%	0 23	100%	0 18	0 30	0.00	0 44
BEDROOM 2	305D	140	140	10	5	0.06	2	100%	2	80%	23	100%	18	30	0.77	44
UNIT BATHROOM 1	306 306A	266 31	266 31	10 0	5	0.06	3	100%	3	80% 80%	39 0	100%	31 0	140 0	0.28	205
BATHROOM 2	306B	31	31	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0
BEDROOM 1 BEDROOM 2	306C 306D	140 140	140 140	10 10	5	0.06	2	100%	2	80% 80%	23 23	100%	18 18	30 30	0.77	44
UNIT	307	274	274	10	5	0.06	3	100%	3	80%	23 39	100%	31	30 140	0.28	205
BATHROOM 1	307A 307B	28	28	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0
BATHROOM 2 BEDROOM 1	307B 307C	31 142	31 142	0 10	0 5	0.06	0 2	100% 100%	0	80% 80%	0 23	100% 100%	0 19	0 30	0.00	0 44
BEDROOM 2	307D	144	144	10	5	0.06	2	100%	2	80%	23	100%	19	30	0.00	44
UNIT BATHROOM 1	308 308A	387 31	387 31	10 0	5 0	0.06	4 0	100%	4	80% 80%	54 0	100%	43 0	110 0	0.49	161 0
BATHROOM 2	308B	31	31	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0
BEDROOM 1 BEDROOM 2	308C 308D	140 138	140 138	10 10	5 5	0.06	2 2	100%	2	80% 80%	23 23	100%	18 18	30 30	0.00	44
BEDROOM 3	308E	140	140	10	5	0.06	2	100%	2	80%	23	100%	18	30	0.00	44
UNIT BATHROOM 1	309 309A	265 33	265 33	10	5	0.06	3	100%	3	80% 80%	39 0	100%	31 0	140 0	0.28	205
BATHROOM 2	309B	33	33	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0
BEDROOM 1 BEDROOM 2	309C 309D	140 147	140 147	10 10	5	0.06	2	100% 100%	2	80% 80%	23 24	100% 100%	18 19	30 30	0.77 0.78	44
UNIT	310	147	147	10	5	0.06	2	100%	2	80%	24 25	100%	20	140	0.18	205
BATHROOM 1	310A	33	33	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0
BATHROOM 2 BEDROOM 1	310B 310C	30 140	30 140	10	5	0.06	0 2	100%	2	80% 80%	23	100%	18	0 30	0.00	44
BEDROOM 2	310D	147	147	10	5	0.06	2	100%	2	80%	24	100%	19	30	0.78	44
UNIT BATHROOM 1	312 312A	290 24	290 24	10 0	5 0	0.06	3	100%	3	80% 80%	41 0	100%	32 0	110 0	0.37	161 0
BATHROOM 2	312B	32	32	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0
BEDROOM 1 BEDROOM 2	312C 312D	108 108	108 108	10 10	5	0.06	2 2	100%	2	80% 80%	21 21	100%	16 16	30 30	0.69	44
BEDROOM 3	312E	100	101	10	5	0.06	2	100%	2	80%	20	100%	16	30	0.67	44
UNIT BATHROOM 1	313 313A	265 64	265 64	10	5	0.06	3	100%	3	80% 80%	39	100% 100%	31 0	80	0.48	117
BATHROOM 2	313A 313B	24	24	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0
BEDROOM 1 BEDROOM 2	313C 313D	144 103	144 103	10 10	5	0.06	2	100% 100%	2	80% 80%	23 20	100% 100%	19 16	30 30	0.78 0.67	44
BEDROOM 3	313D 313E	103	103	10	5	0.06	2	100%	2	80%	20	100%	17	30	0.70	44
BEDROOM 4 UNIT	313F	135	135	10	5	0.06	2	100%	2	80%	23	100%	18	30	0.75	44
BATHROOM 1	314 314A	265 31	265 31	10 0	5 0	0.06	3 0	100%	3 0	80% 80%	39 0	100%	31 0	140 0	0.28	205 0
BATHROOM 2	314B	30	30	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0
BEDROOM 1 BEDROOM 2	314C 314D	140 140	140 140	10 10	5	0.06	2 2	100%	2	80% 80%	23 23	100%	18 18	30 30	0.77	44
UNIT	315	266	266	10	5	0.06	3	100%	3	80%	39	100%	31	140	0.28	205
BATHROOM 1 BATHROOM 2	315A 315B	33 31	33 31	0	0	0	0	100%	0	80% 80%	0	100%	0	0	0.00	0 0
BEDROOM 1	315C	140	140	10	5	0.06	2	100%	2	80%	23	100%	18	30	0.77	44
BEDROOM 2 UNIT	315D 316	140 266	140 266	10 10	5	0.06	2 3	100% 100%	2	80% 80%	23 39	100% 100%	18 31	30 140	0.77 0.28	44 205
BATHROOM 1	316A	31	31	0	5 0	0	0	100%	0	80%	39 0	100%	0	0	0.00	0
BATHROOM 2 BEDROOM 1	316B 316C	31 140	31 140	0	0	0 0.06	0 2	100% 100%	0 2	80% 80%	0 23	100% 100%	0 18	0 30	0.00 0.77	0
BEDROOM 1 BEDROOM 2	316C 316D	140 140	140 140	10 10	5 5	0.06	2	100% 100%	2	80% 80%	23 23	100%	18 18	30 30	0.77	44
	317	274	274	10	5	0.06	3	100%	3	80%	39	100%	31	140	0.28	205
BATHROOM 1 BATHROOM 2	317A 317B	28 31	28 31	0	0	0	0	100% 100%	0	80% 80%	0	100% 100%	0	0	0.00	0
BEDROOM 1	317C	142	142	10	5	0.06	2	100%	2	80%	23	100%	19	30	0.77	44
BEDROOM 2 UNIT	317D 318	144 262	144 262	10 10	5 5	0.06	2 3	100%	2 3	80% 80%	23 38	100% 100%	19 31	30 140	0.78 0.27	44 205
BATHROOM 1	318A	31	31	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0
BATHROOM 2 BEDROOM 1	318B 318C	30 140	30 140	0 10	0	0 0.06	0 2	100% 100%	0	80% 80%	0 23	100% 100%	0 18	0 30	0.00 0.77	0
BEDROOM 1 BEDROOM 2	318C 318D	140 140	140 140	10 10	5	0.06	2	100% 100%	2	80% 80%	23 23	100% 100%	18 18	30 30	0.77	44
	319 3104	287	287	10	5	0.06	3	100%	3	80%	40	100%	32	140	0.29	205
BATHROOM 1 BATHROOM 2	319A 319B	33 31	33 31	0	0	0	0	100% 100%	0	80% 80%	0	100% 100%	0	0	0.00	0
BEDROOM 1	319C	154	154	10	5	0.06	2	100%	2	80%	24	100%	19	30	0.80	44
BEDROOM 2 CORRIDOR	319D 321	174 1,681	174 1,681	10 0	5 0	0.06	2 0	100%	2	80% 80%	26 126	100%	20	30 0	0.85	44 0
ELEVATOR LOBBY	322	102	102	10	5	0.06	2	100%	2	80%	20	100%	16	0	0.00	0
JANITOR LOUNGE	323 324	54 362	54 362	0 30	0 7.5	0 0.06	0	100% 100%	0	80% 80%	0 130	100% 100%	0 104	0	0.00 0.87	0
	324 325	362 34	362 34	30 0	7.5 0	0.06	11 0	100%	11 0	80% 80%	130 0	100%	104 0	150 0	0.87	0
TRASH	328	34	34	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0
TRASH	329	362	362 198	30 0	7.5 0	0.06	11 0	100%	11 0	80% 80%	130 15	100%	104 12	150 0	0.87	220 0
	A3	198			-							-				+
TRASH LOUNGE NORTHWEST STAIR NORTHEAST STAIR	B3	198	198	0	0	0.06	0	100%	0	80%	15	100%	12	0	0.00	
TRASH LOUNGE NORTHWEST STAIR		-		0 0 0	0 0 0	0.06 0.06 0.06	0 0 0	100% 100% 100%	0 0 0	80% 80% 80%	15 15 15	100% 100% 100%	12 12 12	0 0 0	0.00 0.00 0.00	0
TRASH LOUNGE NORTHWEST STAIR NORTHEAST STAIR SOUTHEAST STAIR	B3 C3	198 198	198 198	0	0	0.06	0	100%	0 0 0	80%	15	100%	12	0	0.00	

maximum for each room per ASHRAE 62.1 in accordance to IMC Section 403.2. The actual number of people is based on either the estimated actual occupancy or the short term occupancy.

2. The ventilation air calculations for this schedule are based on ASHRAE Standard 62 in accordance to IMC Section 403.2.

#### OUTDOOR AIR VENTILATION SCHEDULE: FLOOR 3

100%

Occupant Diversity Factor, (D) =

Supply Fan Diversity Factor = 100% Actual Total System Supply Air Flow = 3820

Ventil Requi

Actu

CFM

JAL M	ACTUAL OUTDOOR AIR %	NO. OF FIXTURES	CFM PER FIXTURE	QUIREMENTS CFM PER SQ. FT.	REQUIRED CFM	CONTINUOUS CFM	EXHAUST INTERMITTENT CFM
	146.6% 146.6%	2	50	0	0 100	100	
	146.6% 146.6%	1	50	0	0 50	80	
	146.6%	2	50	0	100	100	
	146.6% 146.6%			0	0		
	146.6% 146.6%			0	0		
	146.6%	2	50	0	100	100	
	146.6% 146.6%	1	50	0	50 0	80	
	146.6%			0	0		
	146.6% 146.6%			0	0		
	146.6% 146.6%	1	50	0	0 50	80	
	146.6%	2	50	0	100	100	
	146.6% 146.6%			0	0		
	146.6%			0	0		
	146.6% 146.6%	1 2	50 50	0	50 100	80 100	
	146.6%			0	0		
	146.6% 146.6%			0	0		
	146.6% 146.6%	1 2	50 50	0	50 100	80 100	
	146.6%	2	50	0	0	100	
	146.6% 146.6%	1	50	0	0 50	80	
	146.6%	2	50	0	100	100	
	146.6% 146.6%			0	0		
	146.6% 146.6%			0	0		
	146.6%	1	50	0	50	80	
	146.6% 146.6%	2	50	0	100 0	100	
	146.6%			0	0		
	146.6% 146.6%			0	0		
	146.6%	1	50	0	50	80	
	146.6% 146.6%	2	50	0	100 0	100	
	146.6% 146.6%			0	0		
	146.6%	1	50	0	50	80	
_	146.6% 146.6%	2	50	0	100 0	100	
	146.6%			0	0		
	146.6% 146.6%	1	50	0	0 50	80	
	146.6% 146.6%	2	50	0	100 0	100	
	146.6%			0	0		
	146.6% 146.6%			0	0		
	146.6%	2	50	0	100	100	
	146.6% 146.6%	1	50	0	50 0	80	
	146.6%			0	0		
	146.6% 146.6%			0	0		
	146.6% 146.6%	1	50	0	0 50	80	
	146.6%	2	50	0	100	100	
	146.6% 146.6%			0	0		
	146.6% 146.6%	4	50	0	0 50	80	
	146.6%	1 2	50 50	0	100	100	
-	146.6% 146.6%			0	0		
	146.6%			0	0		
	146.6% 146.6%	1 2	50 50	0	50 100	80 100	
	146.6% 146.6%			0	0		
	146.6%			0	0		
-	146.6% 146.6%	1 2	50 50	0	50 100	100 100	
	146.6%			0	0		
	146.6% 146.6%			0	0		
	146.6% 146.6%	1	50 50	0	50 100	80 100	
	146.6%	۷	50	0	0	100	
_	146.6% 146.6%			0	0		
	146.6%	1	50	0	50	100	
	146.6% 146.6%	2	50	0	100 0	100	
	146.6% 146.6%			0	0		
	146.6%			0	0		
	146.6% 146.6%			1 0	54 0	100	
	146.6%			1	34	50	
	146.6% 146.6%			1 0	34 0	50	
	146.6%			0	0		
	146.6% 146.6%			0	0		
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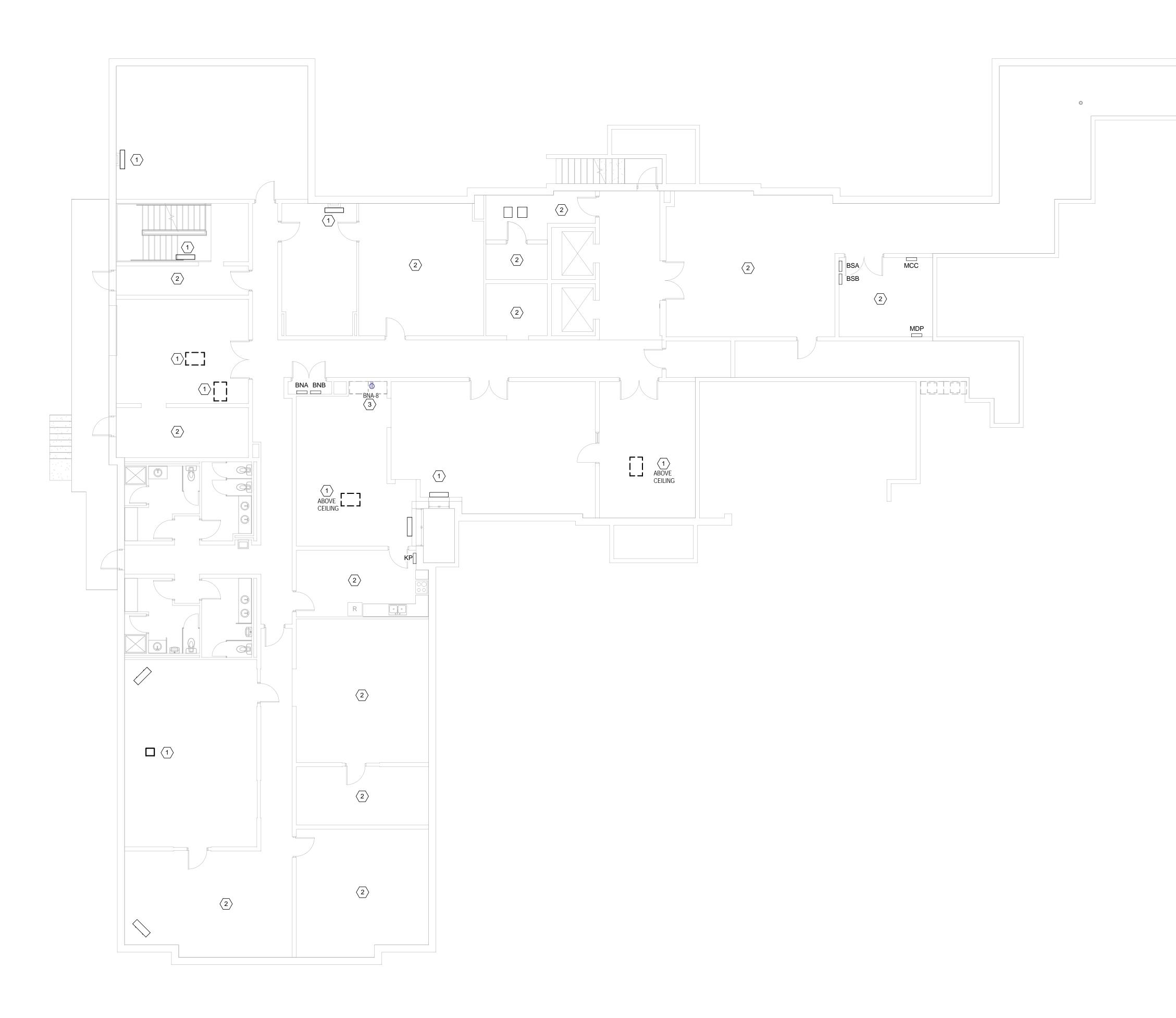
# Xavier University Buenger Hall Renovation 3848 Ledgewood Drive Cincinnati, Ohio 45207 Project #: 16016 304 East Eighth Cincinnati OH 45202-223 I v. (513) 665-9555 f. (513) 665-9857 glaserworks architecture & urban design DATE: 02/15/2017 PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS: Motz Engineering 300 West 4th Street, Suite 300 Cincinnati, OH 45202-2666 T: 513.621.5400 F: 513.621.5407 MEP Design Security Sustainable Design Commissioning Design Build STRUCTURAL ENGINEERS: schæfer 10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 T: 513.542.3300 F: 513.542.5540 SHEET REVISION REV # DATE DESCRIPTION DATE DESCRIPTION BIDDING AND PERMIT 02/16/2017 SCHEDULES

PRINT DATE: 2/15/2017 1:07:35 PM

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									OUTDO	OOR AIR VENTILA	TION SCHEDU	LE: FLOOR 4											
ROOM	ROOM	GROSS	NET	MAX. NO. OF	OUTSIDE AIR	OUTSIDE AIR	DESIGN	SHORT TERM	ACTUAL	AIR	INITIAL ZONE	SYSTEM	UNCORRECTED	DESIGN	OUTSIDE AIR	ACTUAL	ACTUAL		EXHAUST RE	QUIREMENTS		ACTUA	AL EXHAUST
NAME	NUMBER	FL AREA	FL AREA	OCCUPANTS	PER OCC.	PER FL AREA	NUMBER OF	OCCUPANT	NUMBER OF	SYSTEM	OUTSIDE AIR	OCCUPANT	OUTSIDE AIR	SUPPLY AIR	PRIMARY AIR	OA	OUTDOOR	NO. OF	CFM PER	CFM PER	REQUIRED	CONTINUOUS	INTERMITTENT
		(SQ. FT)	(SQ. FT)	(PER 1000 SF)	CFM	CFM/SQ.FT.	PEOPLE	DIVERSITY	PEOPLE	EFFECTIVENESS	CFM	DIVERSITY	CFM	CFM	RATIO, (Z p)	CFM	AIR %	FIXTURES	FIXTURE	SQ. FT.	CFM	CFM	CFM
RA UNIT	401	204	204	10	5	0.06	3	100%	3	80%	34	100%	27	120	0.00	188	156.4%			0	0		,
BATHROOM	401A	40	40	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	156.4%	2	50	0	100	100	,
UNIT	402	262	262	10	5	0.06	3	100%	3	80%	38	100%	31	140	0.27	219	156.4%			0	0		,
BATHROOM 1	402A	31	31	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	156.4%	1	50	0	50	80	,
BATHROOM 2	402B	30	30	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	156.4%	2	50	0	100	100	· · · · · · · · · · · · · · · · · · ·
BEDROOM 1	402C	140	140	10	5	0.06	2	100%	2	80%	23	100%	18	30	0.77	47	156.4%			0	0		·'
BEDROOM 2	402D	140	140	10	5	0.06	2	100%	2	80%	23	100%	18	30	0.77	47	156.4%			0	0		· · · · · · · · · · · · · · · · · · ·
UNIT	403	266	266	10	5	0.06	3	100%	3	80%	39	100%	31	140	0.28	219	156.4%			0	0		
BATHROOM 1	403A	31	31	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	156.4%	1	50	0	50	80	·'
BATHROOM 2	403B	31	31	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	156.4%	2	50	0	100	100	
BEDROOM 1	403C	140	140	10	5	0.06	2	100%	2	80%	23	100%	18	30	0.77	47	156.4%			0	0		
BEDROOM 2	403D	140	140	10	5	0.06	2	100%	2	80%	23	100%	18	30	0.77	47	156.4%			0	0		
UNIT	404	293	293	10	5	0.06	3	100%	3	80%	41	100%	33	140	0.29	219	156.4%			0	0		
BATHROOM 1	404A	33	33	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	156.4%	1	50	0	50	80	·
BATHROOM 2	404B	34	34	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	156.4%	2	50	0	100	100	·
BEDROOM 1	404C	116	116	10	5	0.06	2	100%	2	80%	21	100%	17	30	0.71	47	156.4%			0	0		·
BEDROOM 2	404D	100	100	10	5	0.06	1	100%	1	80%	14	100%	11	30	0.46	47	156.4%			0	0		·
BEDROOM 3	404E	103	103	10	5	0.06	2	100%	2	80%	20	100%	16	30	0.67	47	156.4%			U	0		·
BEDROOM 4	404F	115	115	10	5	0.06	2	100%	2	80%	21	100%	17	30	0.70	47	156.4%			0	0		· /
UNIT	405	340	340	10	5	0.06	4	100%	4	80%	51	100%	40	140	0.36	219	156.4%		50	0	0	80	·'
BATHROOM 1	405A	28	28	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	156.4%	1	50	0	50	00	·
BATHROOM 2	405B	32	32	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	156.4%	2	50	0	100	100	· /
BEDROOM 1	405C	115	115	10	5	0.06	2	100%	2	80%	21	100%	17	30	0.70	47	156.4%			0	0		·'
BEDROOM 2	405D	119	119	10	5	0.06	2	100%	2	80%	21	100%		50	0.71	47	156.4%			0	0		·
BEDROOM 3	405E	119	119	10	5	0.06	2	100%	2	80%	21	100%	17	30	0.71	47	156.4%			0	0		·'
BEDROOM 4	405F	115	115 293	10	5	0.06	2	100%	2	80%	21 41	100%	17	30	0.70	47	156.4%			0	0		·'
UNIT	406	293	200	10	5	0.06	3	100%	3	80%	41	100%	33	80	0.51	125	156.4%		50	0	0	00	· /
BATHROOM 1	406A	33	33	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	156.4%	1	50	0	50	80	·'
BATHROOM 2	406B	34	34	10	0	0	2	100%	0	80%	0	100%	17	30	0.00	0	156.4%	2	50	0	100	100	·′
BEDROOM 1 BEDROOM 2	406C	116 100	116 100	10	5	0.06	2 1	100%	2	80%	21	100%	17	30	0.71	47	156.4% 156.4%			0	0		'
BEDROOM 2 BEDROOM 3	406D 406E			10	5	0.06	2	100%		80%	14	100%	16	30	0.46		156.4%			0	0		
BEDROOM 3 BEDROOM 4	406E 406F	103 115	103 115	10	5	0.06	2	100% 100%	2	80% 80%	20 21	100%	17	30	0.70	47	156.4%			0	0		
UNIT	408F	266	266	10	5	0.06	3	100%	2	80%	39	100 %	31	140	0.28	219	156.4%			0	0		'
BATHROOM 1	407 407A	200	31	0	5	0.00	0	100%	5	80%	39	100 %	0	140	0.28	219	156.4%	1	50	0	50	80	'
BATHROOM 1 BATHROOM 2	407A 407B	31	31	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	156.4%	2	50	0	100	100	
BEDROOM 1	407B	140	140	10	5	0.06	2	100%	0	80%	23	100%	18	30	0.00	47	156.4%	2	50	0	0	100	
BEDROOM 2	407D	140	140	10	5	0.06	2	100%	2	80%	23	100%	18	30	0.77	47	156.4%			0	0		
UNIT	408	387	387	10	5	0.06	4	100%	4	80%	54	100%	43	110	0.49	172	156.4%			0	0		
BATHROOM 1	408 408A	31	31	0	0	0.00	4	100%	0	80%	0	100%	0	0	0.00	0	156.4%	1	50	0	50	80	1
BATHROOM 1 BATHROOM 2	408B	31	31	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	156.4%	2	50	0	100	100	1
BEDROOM 1	408C	140	140	10	5	0.06	2	100%	2	80%	23	100%	18	30	0.00	47	156.4%			ů 0	0	100	
BEDROOM 2	408D	138	138	10	5	0.06	2	100%	2	80%	23	100%	18	30	0.76	47	156.4%			0	0		1'
BEDROOM 2 BEDROOM 3	408E	140	140	10	5	0.06	2	100%	2	80%	23	100%	18	30	0.77	47	156.4%			0	0		1
CORRIDOR	421	817	817	0	0	0.06	0	100%	0	80%	61	100%	49	0	0.00	0	156.4%			0	0		1'
ELEVATOR LOBBY	422	209	209	10	5	0.06	3	100%	3	80%	34	100%	28	0	0.00	0	156.4%			0	0		1'
JANITOR	423	29	29	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	156.4%			1	29	100	1′
LOUNGE	424	337	337	30	7.5	0.06	11	100%	11	80%	128	100%	103	150	0.86	235	156.4%			0	0		1
TRASH	425	28	28	0	0	0	0	100%	0	80%	0	100%	0	0	0.00	0	156.4%			1	28	50	1
NORTHWEST STAIR	B4	198	198	0	0	0.06	0	100%	0	80%	15	100%	12	0	0.00	0	156.4%			0	0		1
SOUTHWEST STAIR	C4	198	198	0	0	0.06	0	100%	0	80%	15	100%	12	0	0.00	0	156.4%			0	0		1
		1	1				1									1							1
		1			1										WORST CASE	1	1						1
	TOTALS:	7,202	7,202		1		80		80		1034	1	827	1790	85.6%	2800						1510	0
NOTE: 1. The design number of people shown for each room is th				•	-	-		om Peak Occupancies =	. 80			Sum of Ro	om Supply Air Quantities =	1790	CFM		Outdoor Air Flow	V ou =	827	CFM	1		·
maximum for each room per ASHRAE 62.1 in accordance	e to IMC Section 403.2. T	he actual number	r of people				Pe	ak System Occupancy =	80				pply Fan Diversity Factor =			Ventilation Eff		E v =	0.30	(Per ASHRAE 62.1	-2007, Table 6-3)		
is based on either the estimated actual occupancy or the	short term occupancy.						Occupa	nt Diversity Factor, (D) =	100%			Actual Tota	System Supply Air Flow =	1790	CFM	Required OA	Flow	V ot =	2758	CFM			,
2. The ventilation air calculations for this schedule are ba	sed on ASHRAE Standard	62 in accordance	e to IMC Section 4	403.2.												Actual Final C	utdoor Air Flow		2800	CFM			





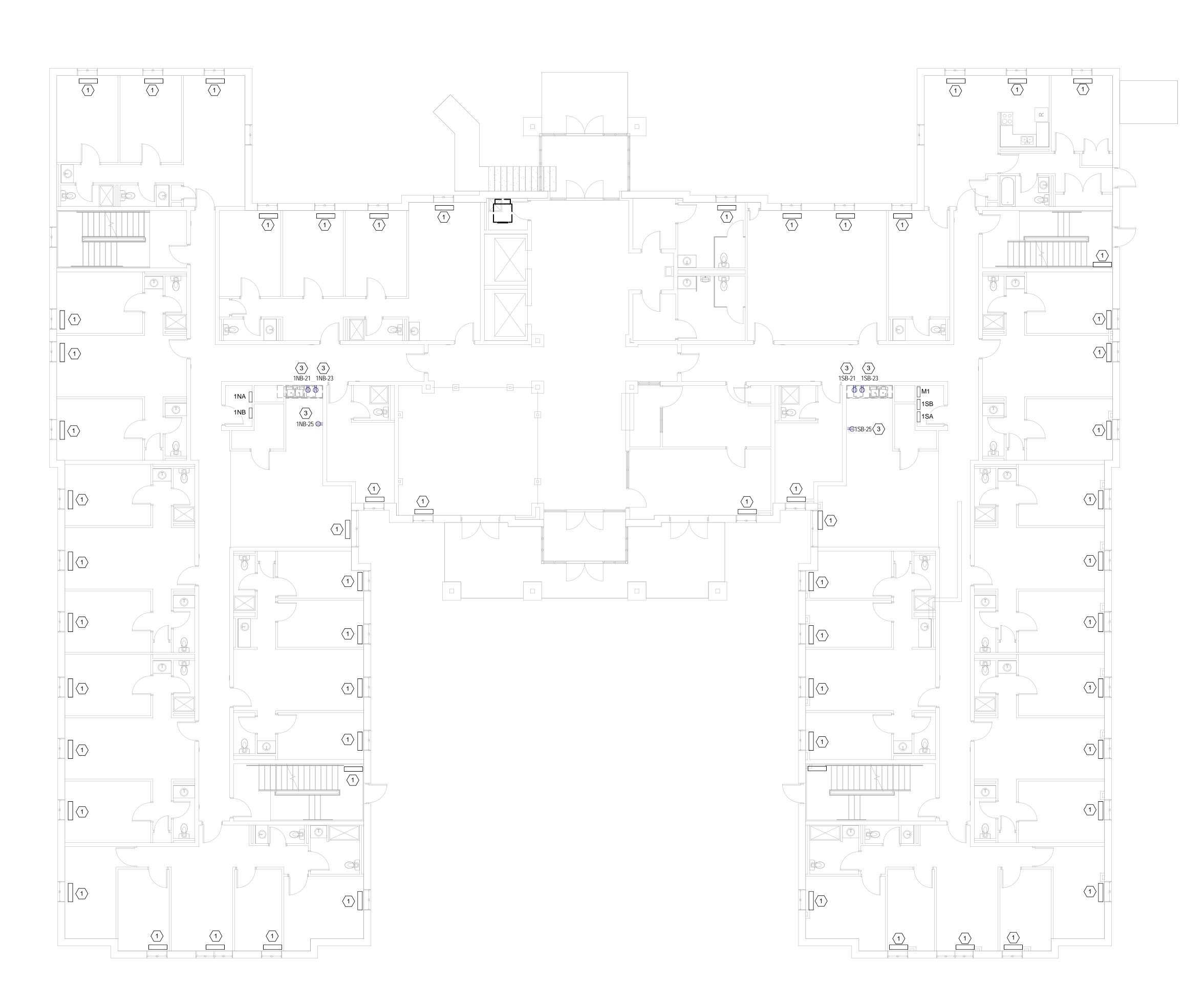
- A. UNLESS OTHERWISE NOTED, NO WORK TO BE PERFORMED ON EXISTING ELECTRICAL DEVICES, SUCH AS RECEPTACLES.
- B. WIFI ROUTERS & ASSOCIATED DEVICES TO BE REMOVED FROM DEMOLITION AREAS AND CEILINGS. WIFI ROUTERS SHALL BE INSTALLED IN PREVIOUS LOCATION UPON CONSTRUCTION'S COMPLETION.

#### DRAWING NOTES: (#)

- 1. EXISTING FAN COIL UNIT TO BE REMOVED. ASSOCIATED WIRING AND CIRCUIT TO REMAIN FOR RE-USE. SEE SHEET EP101 FOR MORE INFORMATION.
- 2. NO WORK TO BE PERFORMED IN THIS AREA.
- . RECEPTACLE TO BE REMOVED. ASSOCIATED WIRING AND CIRCUIT TO REMAIN FOR RE-USE.







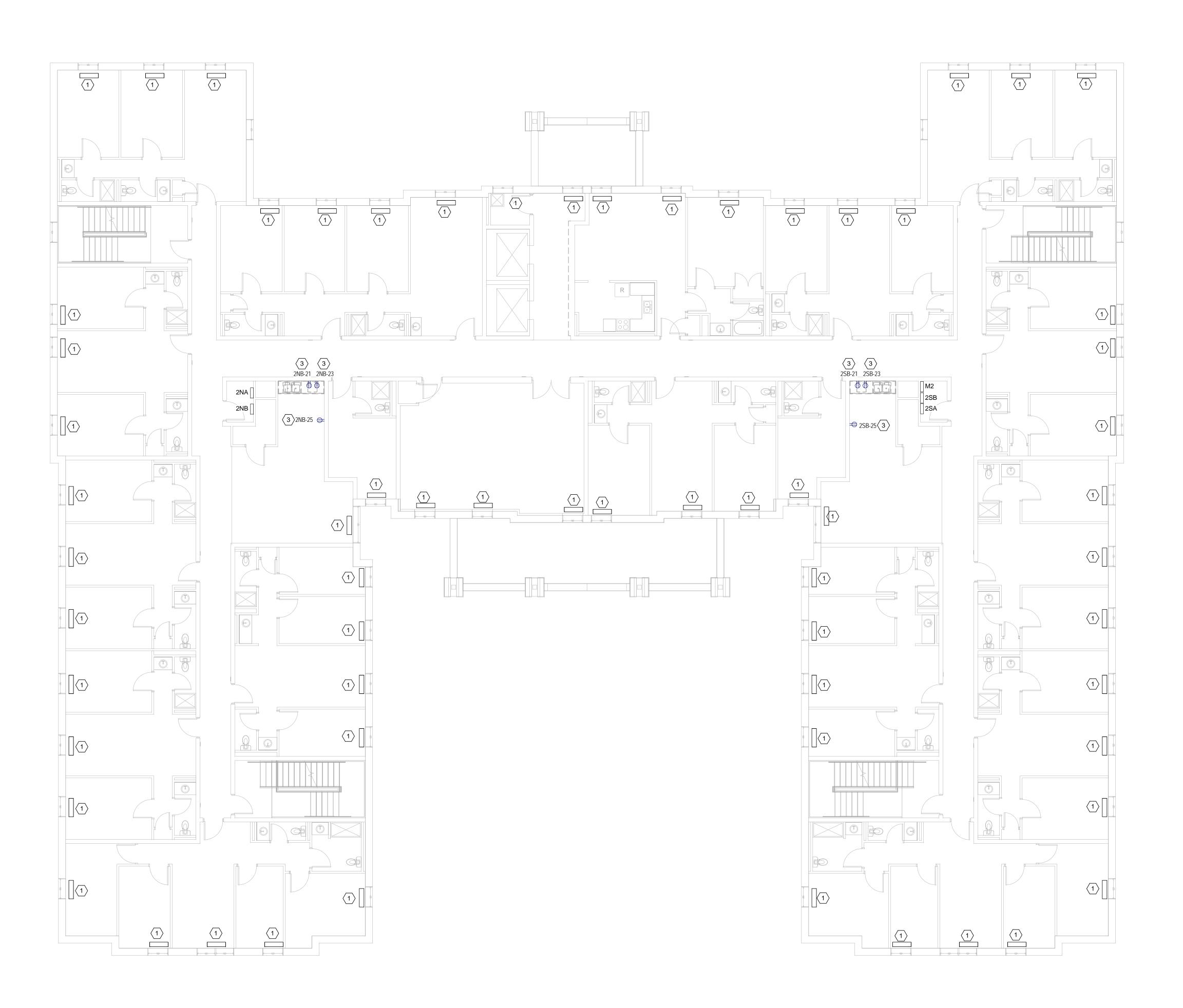
- A. UNLESS OTHERWISE NOTED, NO WORK TO BE PERFORMED ON EXISTING ELECTRICAL DEVICES, SUCH AS RECEPTACLES.
- B. WIFI ROUTERS & ASSOCIATED DEVICES TO BE REMOVED FROM DEMOLITION AREAS AND CEILINGS. WIFI ROUTERS SHALL BE INSTALLED IN PREVIOUS LOCATION UPON CONSTRUCTION'S COMPLETION.

#### DRAWING NOTES: (#)

- EXISTING FAN COIL UNIT TO BE REMOVED. ASSOCIATED WIRING AND CIRCUIT TO REMAIN FOR RE-USE. SEE SHEET EP101 FOR MORE INFORMATION.
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- 3. RECEPTACLE TO BE REMOVED. ASSOCIATED WIRING AND CIRCUIT TO REMAIN FOR RE-USE.



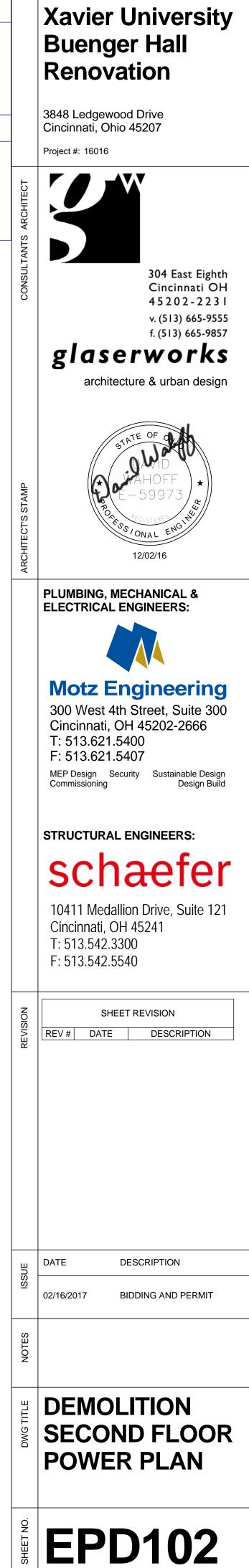
CONSULTANTS ARCHITECT	3848 Ledgewood Drive Cincinnati, Ohio 45207 Project #: 16016
ARCHITECT'S STAMP	STATE OF STA
	PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS:
ISSUE REVISION	SHEET REVISION         REV #       DATE       DESCRIPTION         DATE       DESCRIPTION
ŝ	02/16/2017 BIDDING AND PERMIT
NOTES	
DWG TITLE	DEMOLITION FIRST FLOOR POWER PLAN
SHEET NO.	EPD101

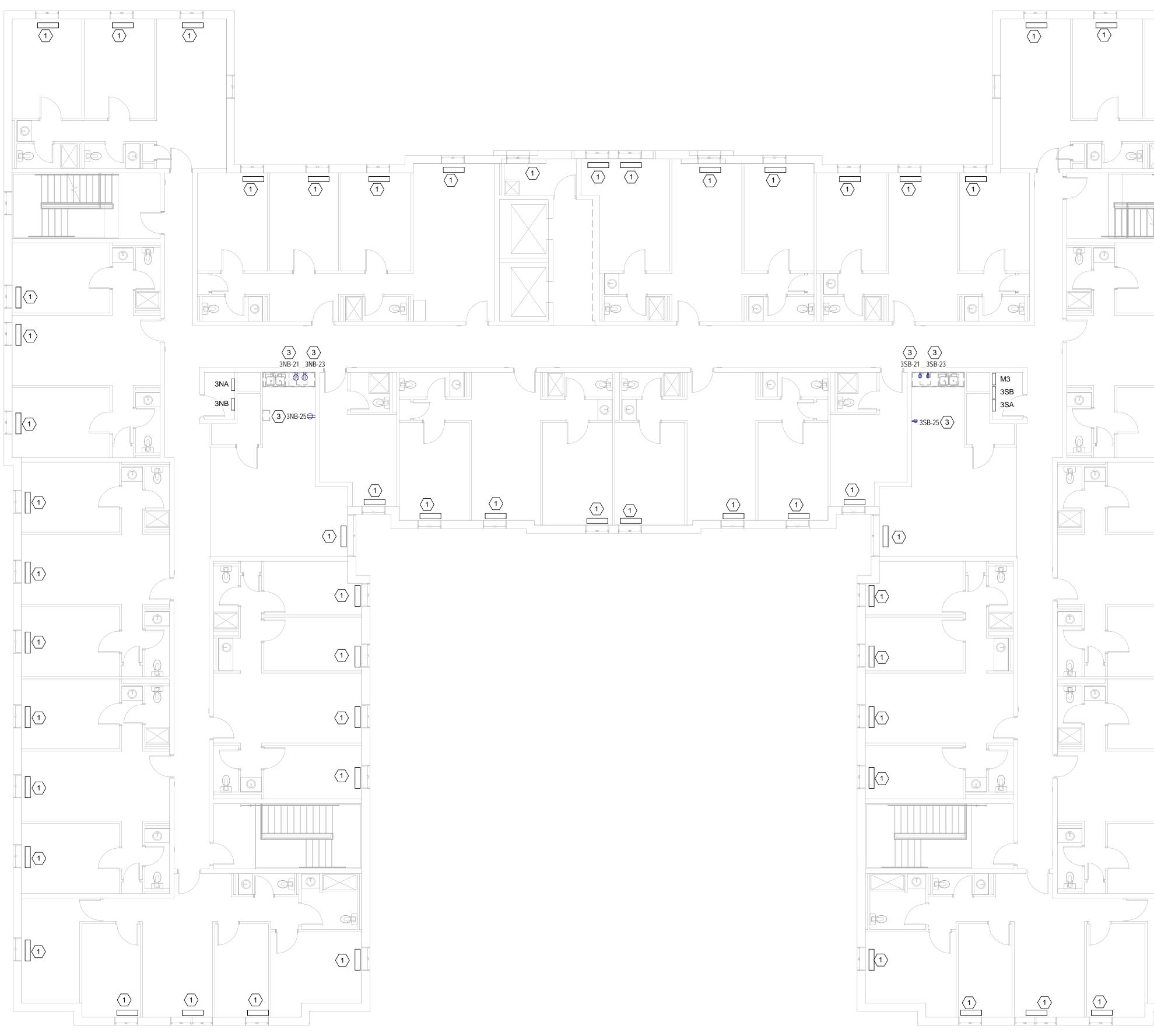


- A. UNLESS OTHERWISE NOTED, NO WORK TO BE PERFORMED ON EXISTING ELECTRICAL DEVICES, SUCH AS RECEPTACLES.
- B. WIFI ROUTERS & ASSOCIATED DEVICES TO BE REMOVED FROM DEMOLITION AREAS AND CEILINGS. WIFI ROUTERS SHALL BE INSTALLED IN PREVIOUS LOCATION UPON CONSTRUCTION'S COMPLETION.

#### DRAWING NOTES: $\langle \# \rangle$

- 1. EXISTING FAN COIL UNIT TO BE REMOVED. ASSOCIATED WIRING AND CIRCUIT TO REMAIN FOR RE-USE. SEE SHEET EP101 FOR MORE INFORMATION.
- 2. NO WORK TO BE PERFORMED IN THIS AREA.
- 3. RECEPTACLE TO BE REMOVED. ASSOCIATED WIRING AND CIRCUIT TO REMAIN FOR RE-USE.





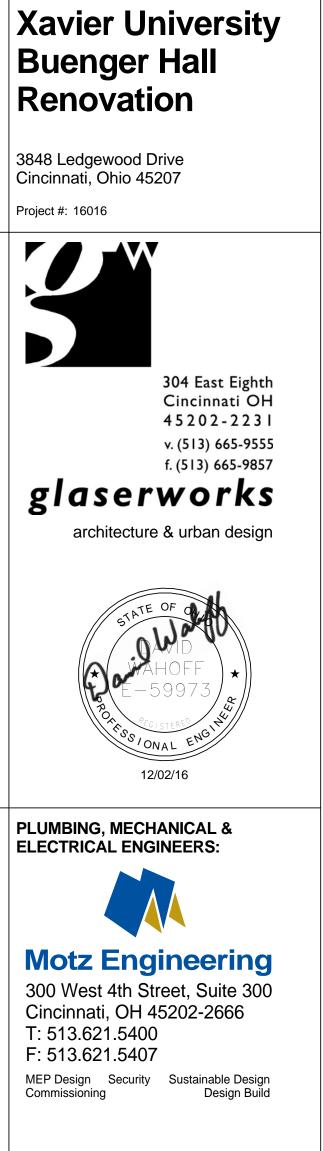




- A. UNLESS OTHERWISE NOTED, NO WORK TO BE PERFORMED ON EXISTING ELECTRICAL DEVICES, SUCH AS RECEPTACLES.
- B. WIFI ROUTERS & ASSOCIATED DEVICES TO BE REMOVED FROM DEMOLITION AREAS AND CEILINGS. WIFI ROUTERS SHALL BE INSTALLED IN PREVIOUS LOCATION UPON CONSTRUCTION'S COMPLETION.

#### DRAWING NOTES: $\langle \# \rangle$

- 1. EXISTING FAN COIL UNIT TO BE REMOVED. ASSOCIATED WIRING AND CIRCUIT TO REMAIN FOR RE-USE. SEE SHEET EP101 FOR MORE INFORMATION.
- 2. NO WORK TO BE PERFORMED IN THIS AREA.
- 3. RECEPTACLE TO BE REMOVED. ASSOCIATED WIRING AND CIRCUIT TO REMAIN FOR RE-USE.



STRUCTURAL ENGINEERS:

## schæfer

Cinc T: 51	1 Medallio innati, OH 3.542.330 3.542.554	00
	SHEET	REVISION
REV #	DATE	DESCRIPTION

DATE 02/16/2017

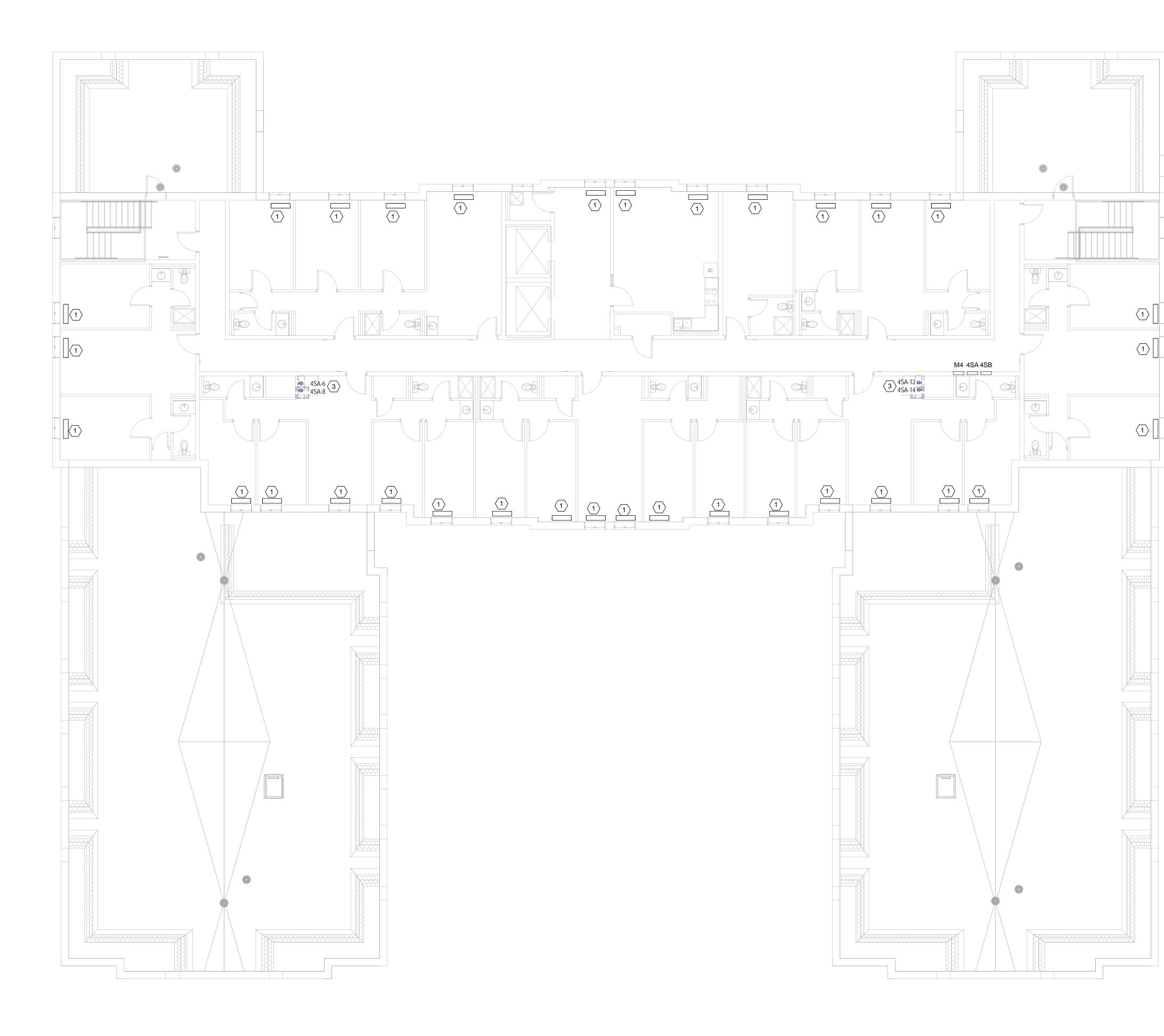
DESCRIPTION

BIDDING AND PERMIT

DEMO

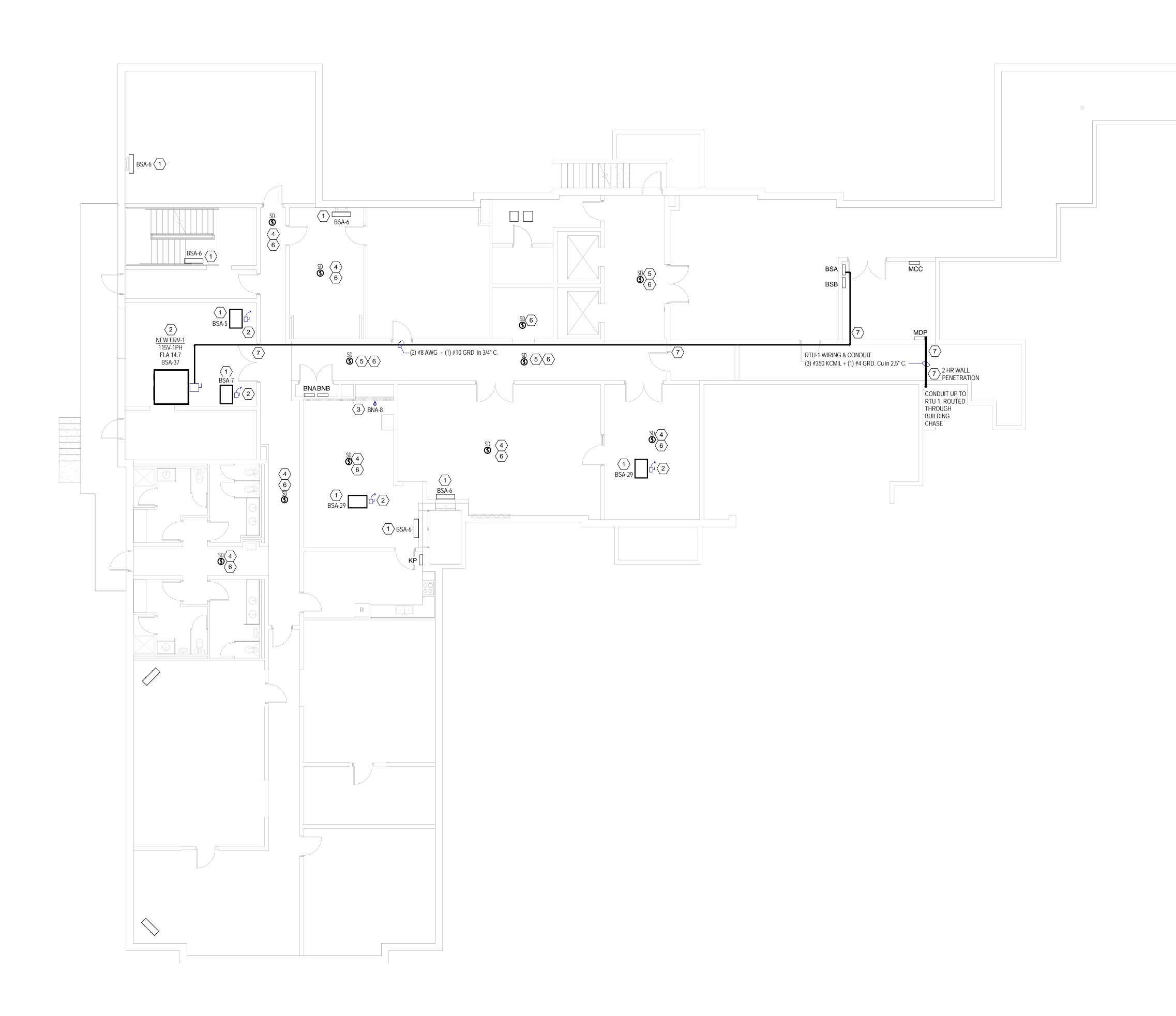






SCALE: 1/8" = 1'-0"





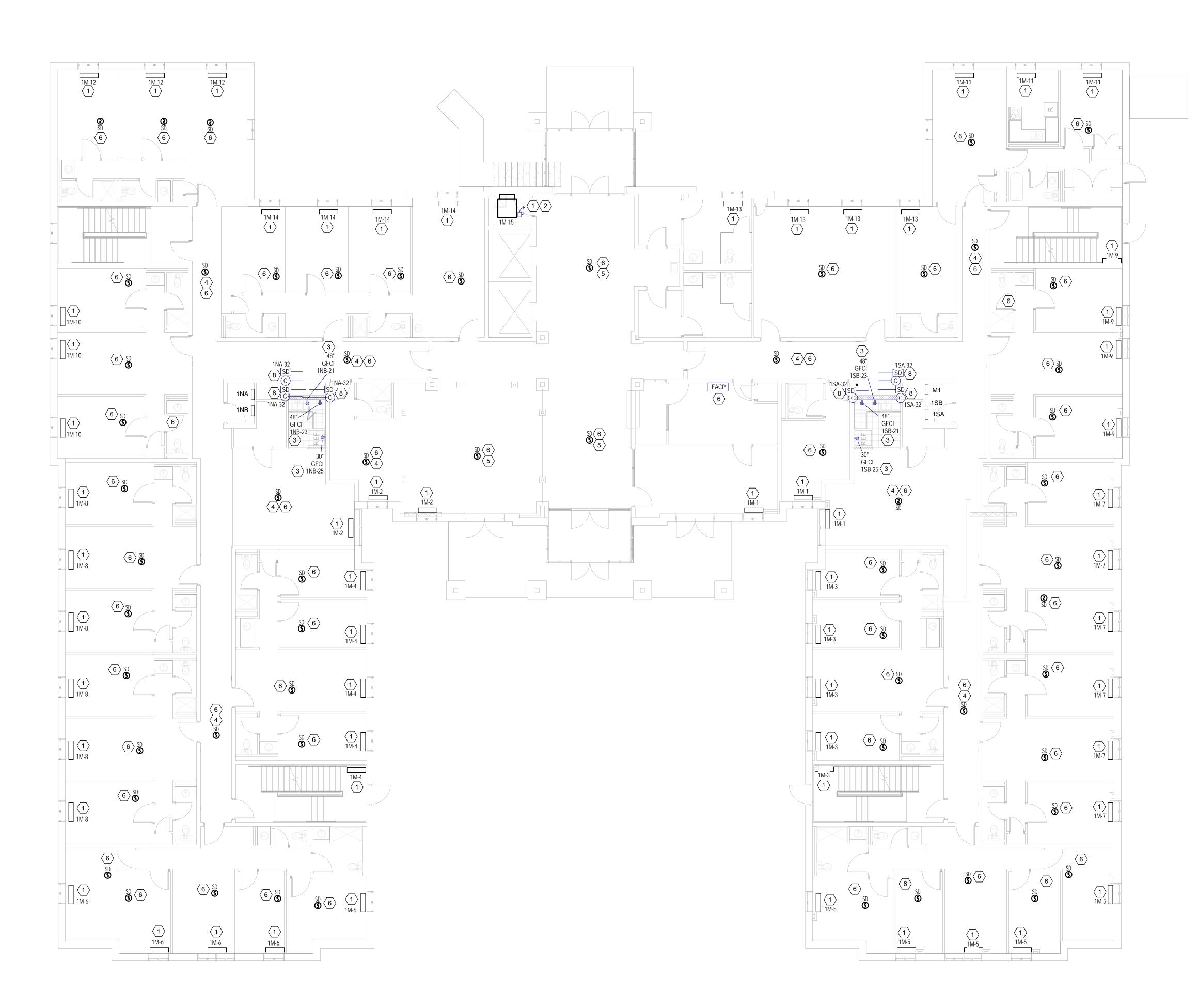
- A. UNLESS OTHERWISE NOTED, EXISTING FIRE ALARM DEVICES ARE TO REMAIN.
- B. PREVIOUSLY EXISTING WIFI ROUTERS & ASSOCIATED DEVICES TO BE INSTALLED IN THEIR PREVIOUS LOCATIONS UPON CONSTRUCTION'S COMPLETION. COORDINATE WITH OWNER.

#### DRAWING NOTES: (#)

- 1. CONNECT NEW FAN COIL UNIT TO EXISTING WIRING, REUSE ORIGINAL CIRCUIT.
- 2. REFER TO SINGLE LINE DIAGRAM AND PANEL SCHEDULE FOR CIRCUIT AMPERAGE.
- 3. CONNECT NEW RECEPTACLES TO EXISTING WIRING, REUSE ORIGINAL CIRCUIT.
- AS PER BASE BID, EXISTING FIRE ALARM DEVICE SHALL BE REPLACED WITH ADDRESSABLE DEVICE. SEQUENCE OF OPERATION SHALL NOT CHANGE.
- 5. AS PER BID ALTERNATE NO. 1, EXISTING FIRE ALARM DEVICE SHALL BE REPLACED WITH ADDRESSABLE DEVICE. SEQUENCE OF OPERATION SHALL NOT CHANGE.
- 6. AS PER BID ALTERNATE NO. 2, EXISTING FIRE ALARM DEVICE SHALL BE REPLACED WITH ADDRESSABLE DEVICE. SEQUENCE OF OPERATION SHALL NOT CHANGE.
- 7. UL APPROVED ASSEMBLY WALL AND FLOOR PENETRATION TO BE APPROVED BY ARCHITECT AND ENGINEER, REFER TO 1/E501.



**EP100** 



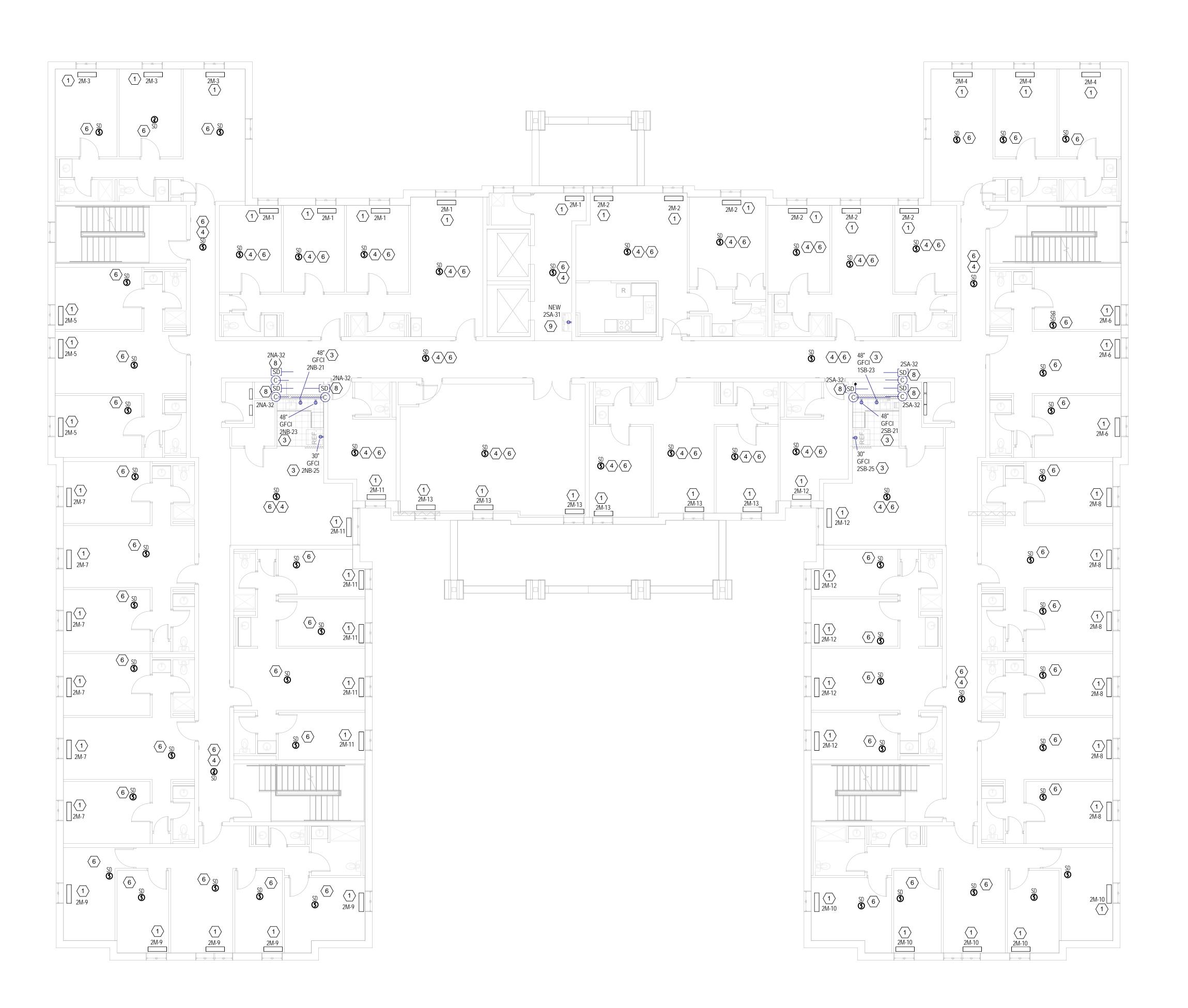
- A. UNLESS OTHERWISE NOTED, EXISTING FIRE ALARM DEVICES ARE TO REMAIN.
- B. PREVIOUSLY EXISTING WIFI ROUTERS & ASSOCIATED DEVICES TO BE INSTALLED IN THEIR PREVIOUS LOCATIONS UPON CONSTRUCTION'S COMPLETION. COORDINATE WITH OWNER.

#### DRAWING NOTES: 🕢

- 1. CONNECT NEW FAN COIL UNIT TO EXISTING WIRING, REUSE ORIGINAL CIRCUIT.
- 2. REFER TO SINGLE LINE DIAGRAM AND PANEL SCHEDULE FOR CIRCUIT AMPERAGE.
- 3. CONNECT NEW RECEPTACLES TO EXISTING WIRING, REUSE ORIGINAL CIRCUIT.
- 4. AS PER BASE BID, EXISTING FIRE ALARM DEVICE SHALL BE REPLACED WITH ADDRESSABLE DEVICE. SEQUENCE OF OPERATION SHALL NOT CHANGE.
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- 7. UL APPROVED ASSEMBLY WALL AND FLOOR PENETRATION TO BE APPROVED BY ARCHITECT AND ENGINEER, REFER TO 1/E501.
- 8. ADDRESSABLE DUCT MOUNTED SMOKE DETECTORS TO RELEASE THE FIRE/SMOKE DAMPER UPON DETECTION OF SMOKE IN THE AIR STREAM. CONNECT TO DUCT MOUNTED SMOKE DETECTOR PROVIDED WITH THE FIRE/SMOKE DAMPER. FIELD COORDINATE WITH HVAC CONTRACTOR. 120 VOLT POWER CONNECTION TO FIRE/SMOKE DAMPERS.

# Xavier University Buenger Hall Renovation

	3848 Ledgewood Drive Cincinnati, Ohio 45207 Project #: 16016
CONSULTANTS ARCHITECT	304 East Eighth Cincinnati OH 45202-223 I v. (513) 665-9555 f. (513) 665-9857 <b>glaserworks</b> architecture & urban design
ARCHITECT'S STAMP	STATE OF
	PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS:
	Motz Engineering300 West 4th Street, Suite 300300 West 4th Street, Suite 300Cincinnati, OH 45202-2666T: 513.621.5400F: 513.621.5407MEP Design Security Sustainable Design Commissioning Security Design Build
	STRUCTURAL ENGINEERS: Schaefer 10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 T: 513.542.3300 F: 513.542.5540
REVISION	SHEET REVISION       REV #     DATE     DESCRIPTION
œ	
ISSUE	DATE   DESCRIPTION     02/16/2017   BIDDING AND PERMIT
NOTES	
DWG TITLE	NEW WORK FIRST FLOOR POWER PLAN
SHEET NO.	EP101



- A. UNLESS OTHERWISE NOTED, EXISTING FIRE ALARM DEVICES ARE TO REMAIN.
- B. PREVIOUSLY EXISTING WIFI ROUTERS & ASSOCIATED DEVICES TO BE INSTALLED IN THEIR PREVIOUS LOCATIONS UPON CONSTRUCTION'S COMPLETION. COORDINATE WITH OWNER.

#### DRAWING NOTES: (#)

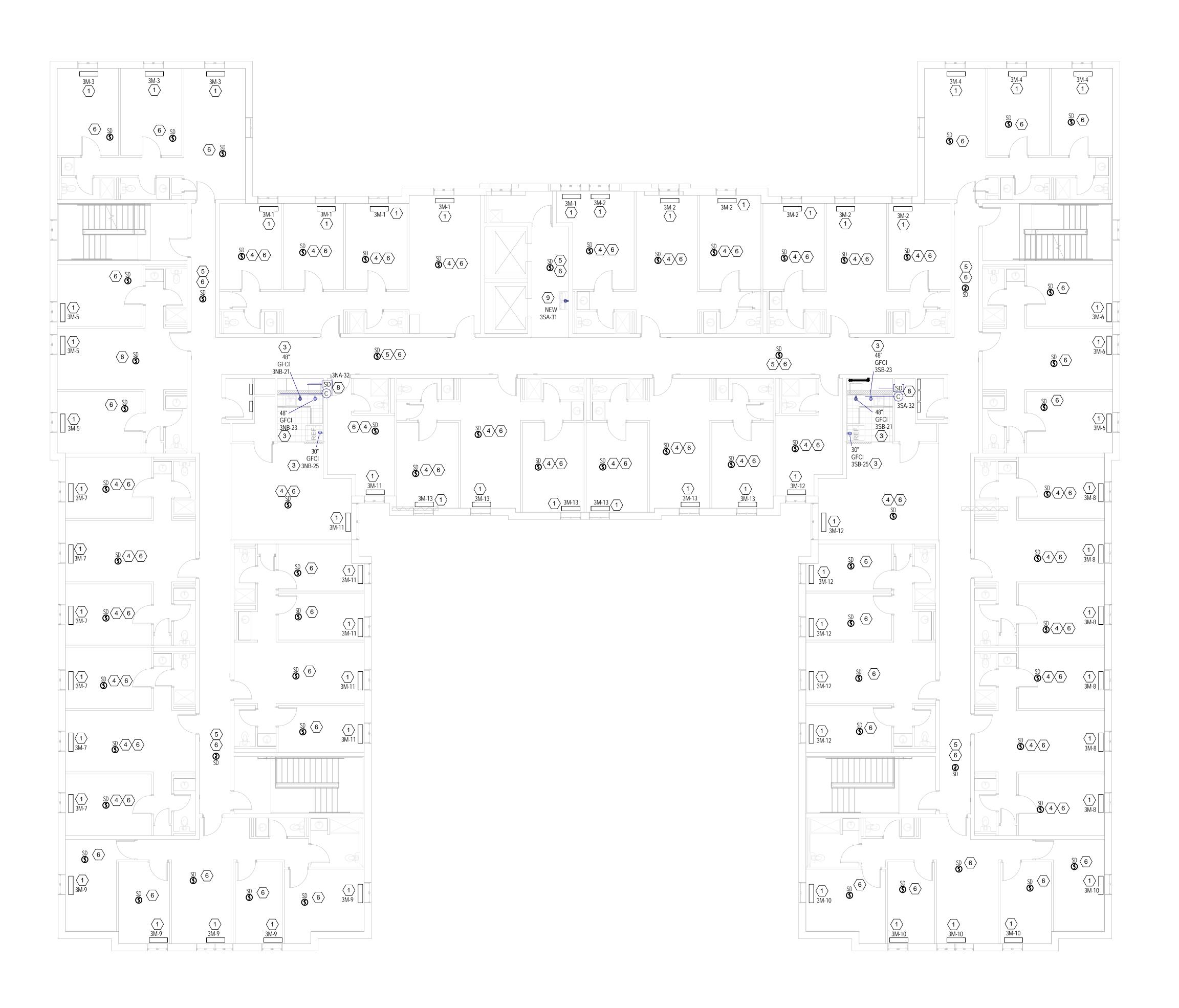
- 1. CONNECT NEW FAN COIL UNIT TO EXISTING WIRING, REUSE ORIGINAL CIRCUIT.
- 2. REFER TO SINGLE LINE DIAGRAM AND PANEL SCHEDULE FOR CIRCUIT AMPERAGE.
- 3. CONNECT NEW RECEPTACLES TO EXISTING WIRING, REUSE ORIGINAL CIRCUIT.
- 4. AS PER BASE BID, EXISTING FIRE ALARM DEVICE SHALL BE REPLACED WITH ADDRESSABLE DEVICE. SEQUENCE OF OPERATION SHALL NOT CHANGE.
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- 7. UL APPROVED ASSEMBLY WALL AND FLOOR PENETRATION TO BE APPROVED BY ARCHITECT AND ENGINEER, REFER TO 1/E501.
- 8. ADDRESSABLE DUCT MOUNTED SMOKE DETECTORS TO RELEASE THE FIRE/SMOKE DAMPER UPON DETECTION OF SMOKE IN THE AIR STREAM. CONNECT TO DUCT MOUNTED SMOKE DETECTOR PROVIDED WITH THE FIRE/SMOKE DAMPER. FIELD COORDINATE WITH HVAC CONTRACTOR.120 VOLT POWER CONNECTION TO FIRE/SMOKE DAMPERS.
- 9. MOUNT RECEPTACLE WITHIN ELECTRICAL CUTOUT OF DRINKING FOUNTAIN, COORDINATE INSTALLATION WITH PLUMBING CONTRACTOR. USE GFCI BREAKER INSTEAD OF RECEPTACLE.

### Xavier University Buenger Hall Renovation

3848 Ledgewood Drive Cincinnati, Ohio 45207 Project #: 16016

304 East Eighth Cincinnati OH 45202-2231 v. (513) 665-9555 f. (513) 665-9857 glaserworks architecture & urban design 12/02/16 PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS: **Motz Engineering** 300 West 4th Street, Suite 300 Cincinnati, OH 45202-2666 T: 513.621.5400 F: 513.621.5407 MEP Design Security Sustainable Design Commissioning Design Build STRUCTURAL ENGINEERS: schæfer 10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 T: 513.542.3300 F: 513.542.5540 SHEET REVISION REV # DATE DESCRIPTION DESCRIPTION DATE **BIDDING AND PERMIT** 02/16/2017 **NEW WORK** SECOND FLOOR **POWER PLAN EP102** 





- A. UNLESS OTHERWISE NOTED, EXISTING FIRE ALARM DEVICES ARE TO REMAIN.
- B. PREVIOUSLY EXISTING WIFI ROUTERS & ASSOCIATED DEVICES TO BE INSTALLED IN THEIR PREVIOUS LOCATIONS UPON CONSTRUCTION'S COMPLETION. COORDINATE WITH OWNER.

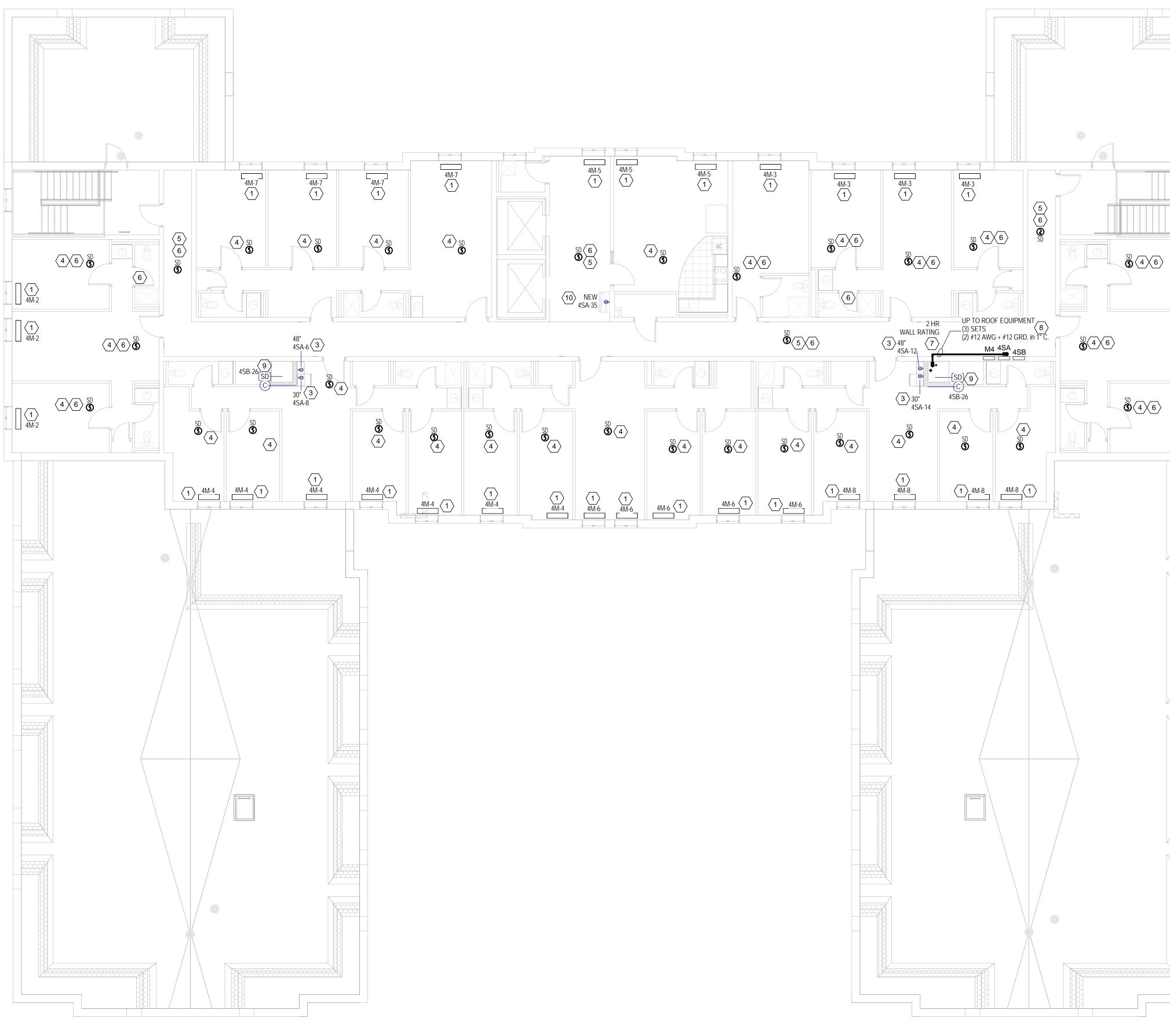
#### DRAWING NOTES: (#)

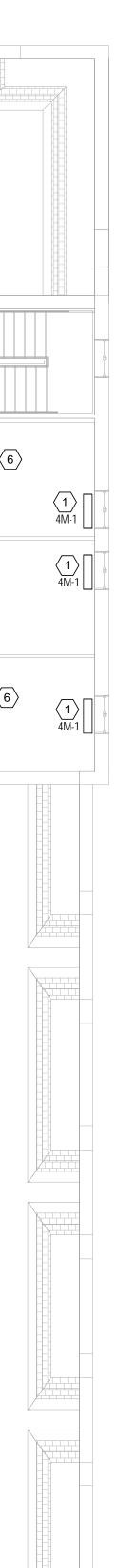
- 1. CONNECT NEW FAN COIL UNIT TO EXISTING WIRING, REUSE ORIGINAL CIRCUIT.
- 2. REFER TO SINGLE LINE DIAGRAM AND PANEL SCHEDULE FOR CIRCUIT AMPERAGE.
- 3. CONNECT NEW RECEPTACLES TO EXISTING WIRING, REUSE ORIGINAL CIRCUIT.
- 4. AS PER BASE BID, EXISTING FIRE ALARM DEVICE SHALL BE REPLACED WITH ADDRESSABLE DEVICE. SEQUENCE OF OPERATION SHALL NOT CHANGE.
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- 6. AS PER BID ALTERNATE NO. 2, EXISTING FIRE ALARM DEVICE SHALL BE REPLACED WITH ADDRESSABLE DEVICE. SEQUENCE OF OPERATION SHALL NOT CHANGE.
- 7. UL APPROVED ASSEMBLY WALL AND FLOOR PENETRATION TO BE APPROVED BY ARCHITECT AND ENGINEER, REFER TO 1/E501.
- ADDRESSABLE DUCT MOUNTED SMOKE DETECTORS TO RELEASE THE FIRE/SMOKE DAMPER UPON DETECTION OF SMOKE IN THE AIR STREAM. CONNECT TO DUCT MOUNTED SMOKE DETECTOR PROVIDED WITH THE FIRE/SMOKE DAMPER. FIELD COORDINATE WITH HVAC CONTRACTOR.120 VOLT POWER CONNECTION TO FIRE/SMOKE DAMPERS.
- 9. MOUNT RECEPTACLE WITHIN ELECTRICAL CUTOUT OF DRINKING FOUNTAIN, COORDINATE INSTALLATION WITH PLUMBING CONTRACTOR. USE GFCI BREAKER INSTEAD OF RECEPTACLE.

# Xavier University Buenger Hall



**EP103** 





- A. UNLESS OTHERWISE NOTED, EXISTING FIRE ALARM DEVICES ARE TO REMAIN.
- B. PREVIOUSLY EXISTING WIFI ROUTERS & ASSOCIATED DEVICES TO BE INSTALLED IN THEIR PREVIOUS LOCATIONS UPON CONSTRUCTION'S COMPLETION. COORDINATE WITH OWNER.

#### DRAWING NOTES: 🕢

- 1. CONNECT NEW FAN COIL UNIT TO EXISTING WIRING, REUSE ORIGINAL CIRCUIT.
- 2. REFER TO SINGLE LINE DIAGRAM AND PANEL SCHEDULE FOR CIRCUIT AMPERAGE.
- 3. CONNECT NEW RECEPTACLES TO EXISTING WIRING, REUSE ORIGINAL CIRCUIT.
- 4. AS PER BASE BID, EXISTING FIRE ALARM DEVICE SHALL BE REPLACED WITH ADDRESSABLE DEVICE. SEQUENCE OF OPERATION SHALL NOT CHANGE.
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- 6. AS PER BID ALTERNATE NO. 2, EXISTING FIRE ALARM DEVICE SHALL BE REPLACED WITH ADDRESSABLE DEVICE. SEQUENCE OF OPERATION SHALL NOT CHANGE.
- 7. UL APPROVED ASSEMBLY WALL AND FLOOR PENETRATION TO BE APPROVED BY ARCHITECT AND ENGINEER, REFER TO 1/E501.
- 8. WIRING AND CONDUIT FROM PANEL 4SA TO PROVIDE POWER FOR ROOF TOP RECEPTACLES AND LIGHT FIXTURES. REFER TO EP105 FOR MORE DETAILS.
- ADDRESSABLE DUCT MOUNTED SMOKE DETECTORS TO RELEASE THE FIRE/SMOKE DAMPER UPON DETECTION OF SMOKE IN THE AIR STREAM. CONNECT TO DUCT MOUNTED SMOKE DETECTOR PROVIDED WITH THE FIRE/SMOKE DAMPER. FIELD COORDINATE WITH HVAC CONTRACTOR.120 VOLT POWER CONNECTION TO FIRE/SMOKE DAMPERS.
- 10. MOUNT RECEPTACLE WITHIN ELECTRICAL CUTOUT OF DRINKING FOUNTAIN, COORDINATE INSTALLATION WITH PLUMBING CONTRACTOR. USE GFCI BREAKER INSTEAD OF RECEPTACLE.

### Xavier University Buenger Hall Renovation

3848 Ledgewood Drive Cincinnati, Ohio 45207 Project #: 16016

304 East Eighth Cincinnati OH 45202-223 I v. (513) 665-9555 f. (513) 665-9857 glaserworks architecture & urban design 12/02/16 PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS: **Motz Engineering** 300 West 4th Street, Suite 300 Cincinnati, OH 45202-2666 T: 513.621.5400 F: 513.621.5407 MEP Design Security Sustainable Design Commissioning Design Build STRUCTURAL ENGINEERS: schæfer 10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 T: 513.542.3300 F: 513.542.5540 SHEET REVISION REV # DATE DESCRIPTION

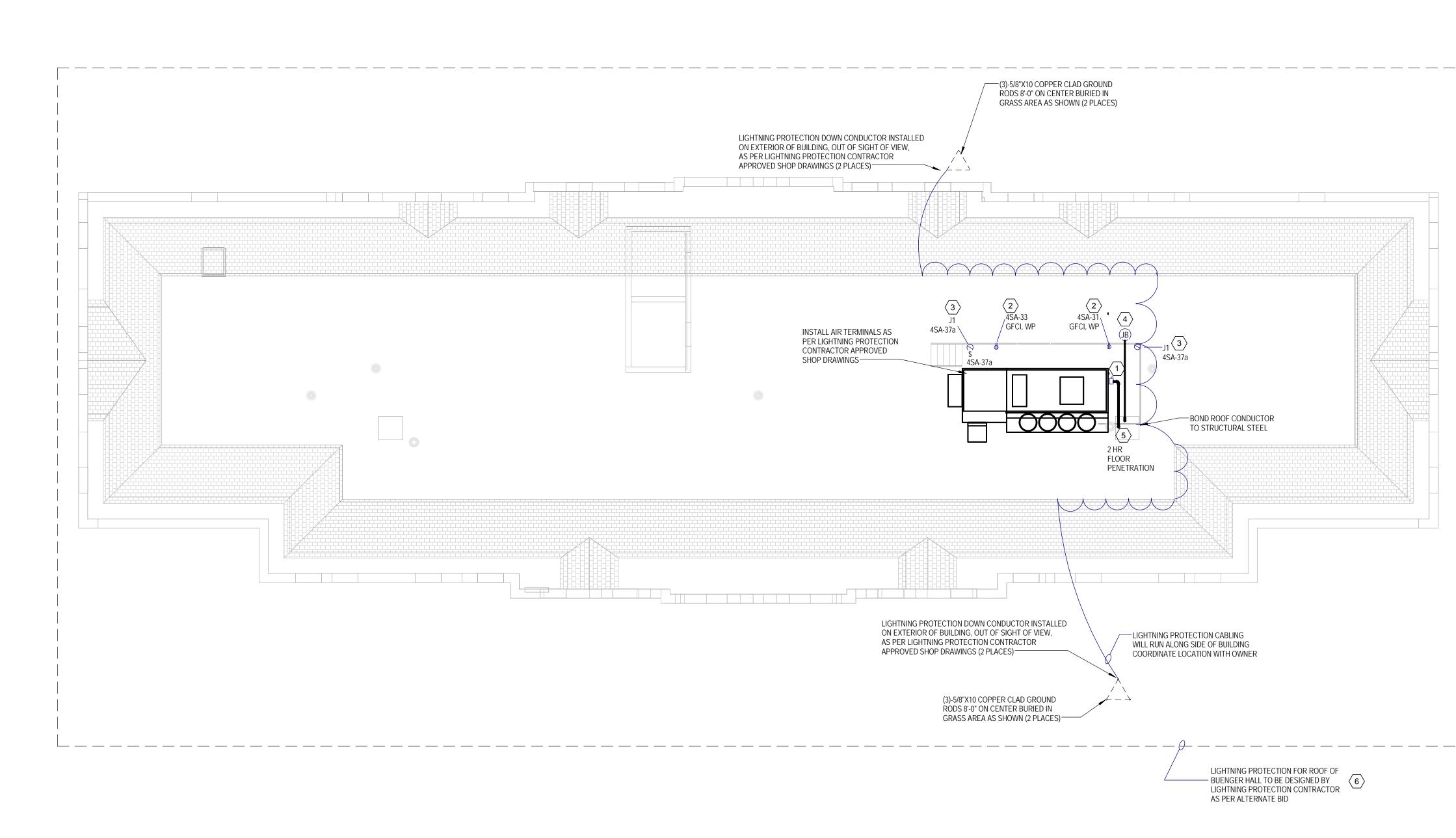
DATE 02/16/2017

BIDDING AND PERMIT

DESCRIPTION



**EP104** 



A. UNLESS OTHERWISE NOTED, EXISTING FIRE ALARM DEVICES ARE TO REMAIN.

#### DRAWING NOTES: 🖉

- 1. EC TO MAKE FINAL CONNECTS TO ROOFTOP UNIT'S INTEGRAL VFD. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR AND OWNERS REPRESENTATIVE.
- 2. EC TO MAKE FINAL CONNECTION TO OUTLETS AND COORDINATE CONDUIT.
- 3. JELLY JAR TYPE LIGHT FIXTURE TO ILLUMINATE RTU-1 PLATFORM. LIGHT FIXTURE TO BE MOUNTED ON POST OFF OF PLATFORM. LIGHT FIXTURES TO BE 6FT ABOVE PLATFORM DECK. J1 LIGHT FIXTURE SWITCH TO BE WATER PROOF. REFER TO LIGHT FIXTURE SCHEDULE FOR MORE DETAILS.
- 4. WIRING AND ASSOCIATED CONDUIT FROM PANEL 4SA. PROVIDE JUNCTION BOX AS NEEDED. EXTEND WIRING TO ROOF RECEPTACLES AND LIGHT FIXTURES.
- 5. UL APPROVED ASSEMBLY WALL AND FLOOR PENETRATION TO BE APPROVED BY ARCHITECT AND ENGINEER, REFER TO 1/E501.
- 6. LIGHTNING PROTECTION AIR TERMINAL DEVICES TO BE INSTALLED AS PER LIGHTNING PROTECTION CONTRACTOR APPROVED SHOP DRAWINGS. LIGHTNING PROTECTION TO BE PROVIDED AS PER SEPARATE LIGHTNING PROTECTION ALTERNATE.

3848 Ledgewood Drive Cincinnati, Ohio 45207 Project #: 16016 304 East Eighth Cincinnati OH 45202-223I v. (513) 665-9555 f. (513) 665-9857 glaserworks architecture & urban design 12/02/16 PLUMBING, MECHANICAL & **ELECTRICAL ENGINEERS: Motz Engineering** 300 West 4th Street, Suite 300 Cincinnati, OH 45202-2666 T: 513.621.5400 F: 513.621.5407 MEP Design Security Sustainable Design Commissioning Design Build Commissioning STRUCTURAL ENGINEERS: schæfer 10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 T: 513.542.3300 F: 513.542.5540

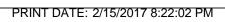
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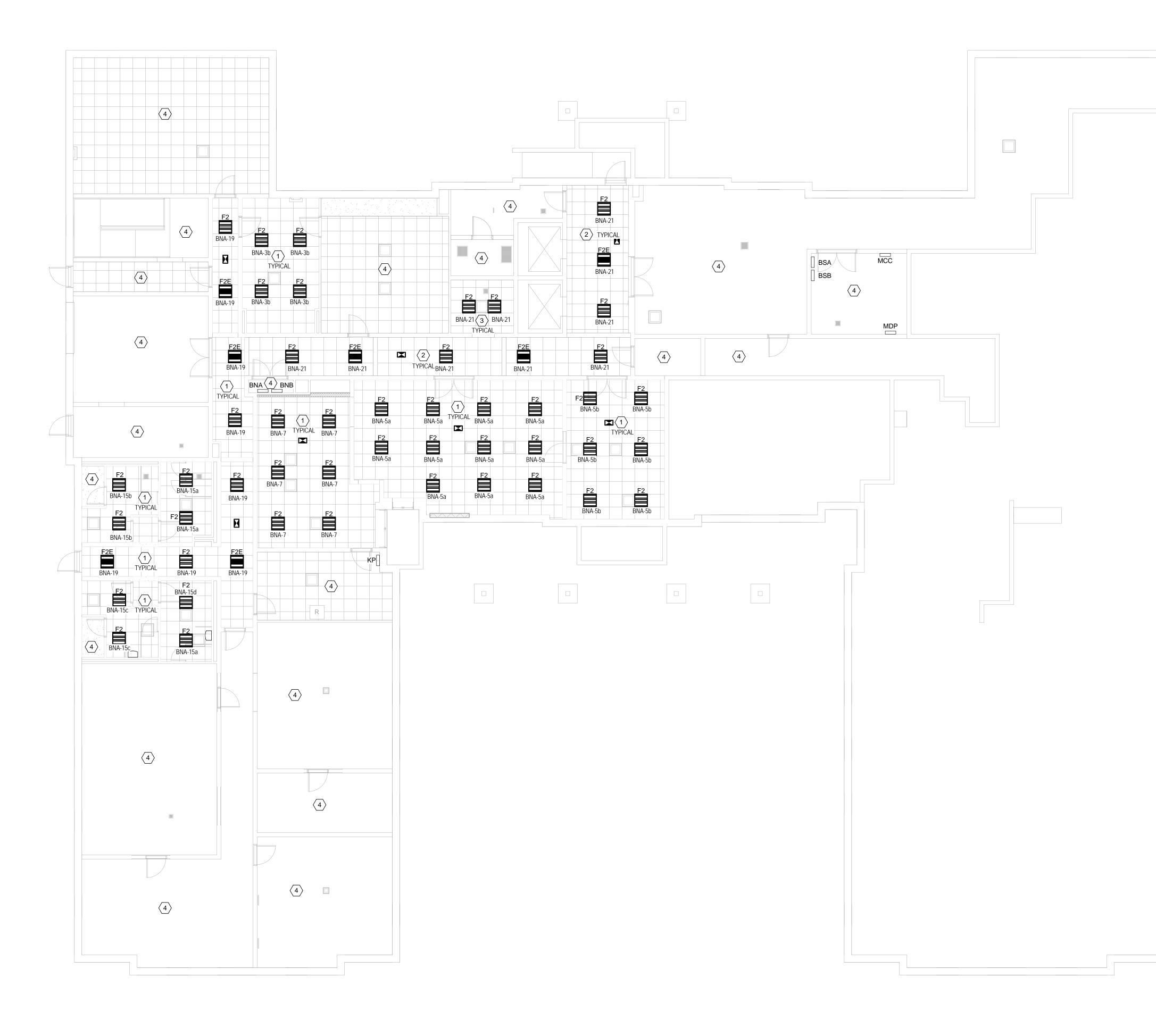
BIDDING AND PERMIT



02/16/2017







- A. UNLESS OTHERWISE NOTED, EXISTING EXIT LIGHT FIXTURES ARE TO REMAIN.
- B. EXISTING WALL MOUNTED TWO HEAD EMERGENCY LIGHT FIXTURES ARE TO BE REMOVED.
- C. EXISTING WALL MOUNTED VANITY LIGHT FIXTURES IN SUITES AND SUITE BATHROOMS ARE TO REMAIN.
- D. NIGHT LIGHTS TO BE WIRED AHEAD OF LOCAL SWITCHING OR ON DEDICATED CIRCUIT.

#### DRAWING NOTES: (#)

- 1. AS PER BASE BID, REMOVE EXISTING LIGHT FIXTURE. CONNECT NEW LIGHT FIXTURE TO EXISTING CIRCUIT AND SWITCHING. EXTEND WIRE AS NEEDED.
- 2. AS PER ALTERNATE BID NO. 1 CONNECT NEW LIGHT FIXTURE TO EXISTING CIRCUIT AND SWITCHING. EXTEND WIRE AS NEEDED.
- 3. AS PER ALTERNATE BID NO. 2 CONNECT NEW LIGHT FIXTURE TO EXISTING CIRCUIT AND SWITCHING. EXTEND WIRE AS NEEDED.
- 4. EXISTING LIGHT FIXTURES AND CONTROLS TO REMAIN.
- 5. SWITCH BOX TO HAVE DUAL TECHNOLOGY OCCUPANCY SENSOR WITH DIMMER.

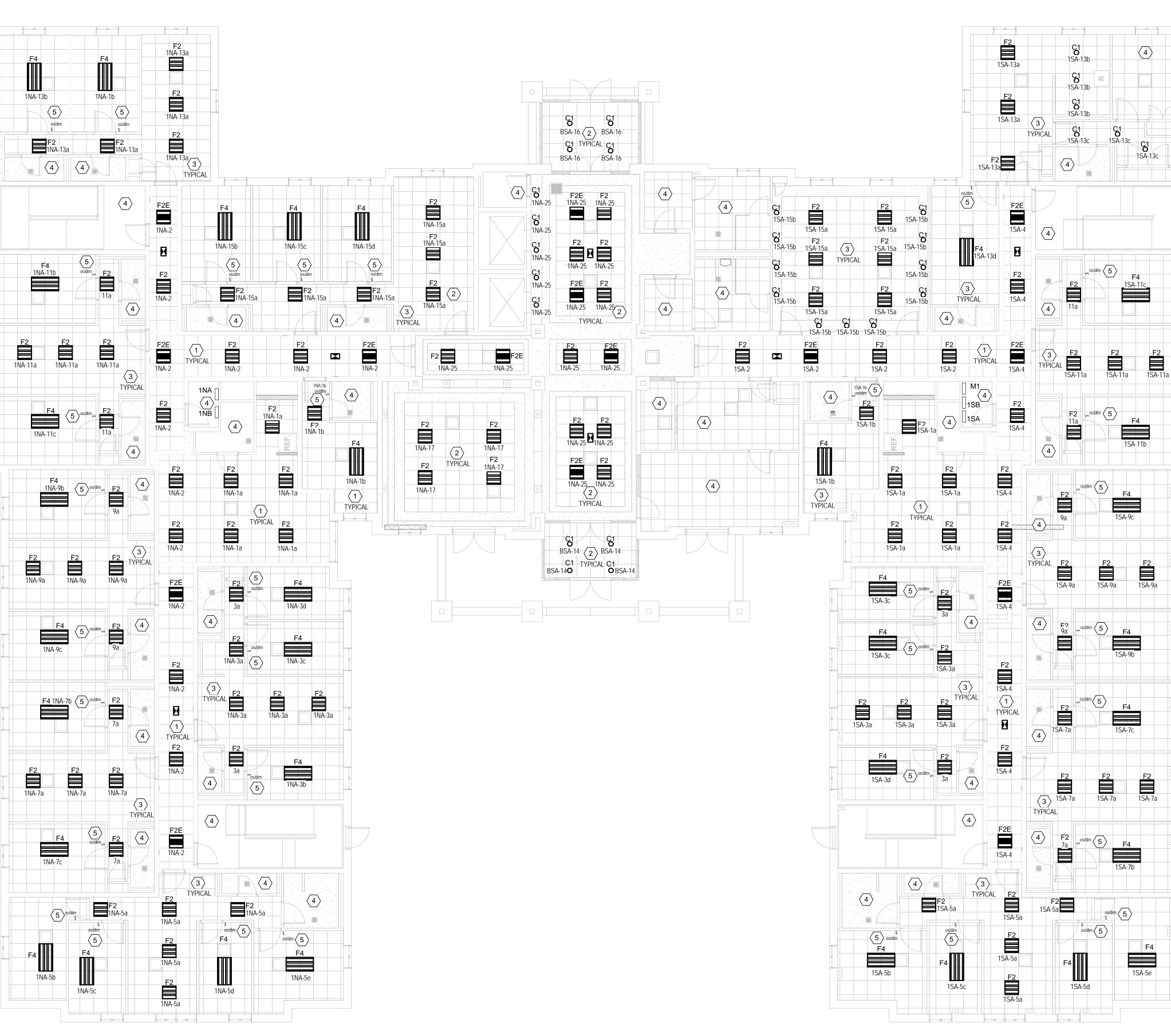


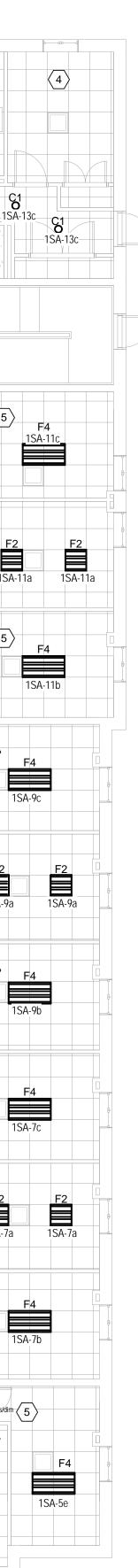
Xavier University Buenger Hall



**EL100** 

PRINT DATE:	2/15/2017	8:19:02 P	ľ





- A. UNLESS OTHERWISE NOTED, EXISTING EXIT LIGHT FIXTURES ARE TO REMAIN.
- B. EXISTING WALL MOUNTED TWO HEAD EMERGENCY LIGHT FIXTURES
- C. EXISTING WALL MOUNTED VANITY LIGHT FIXTURES IN SUITES AND
- SUITE BATHROOMS ARE TO REMAIN. D. NIGHT LIGHTS TO BE WIRED AHEAD OF LOCAL SWITCHING OR ON DEDICATED CIRCUIT.

#### DRAWING NOTES: (#)

ARE TO BE REMOVED.

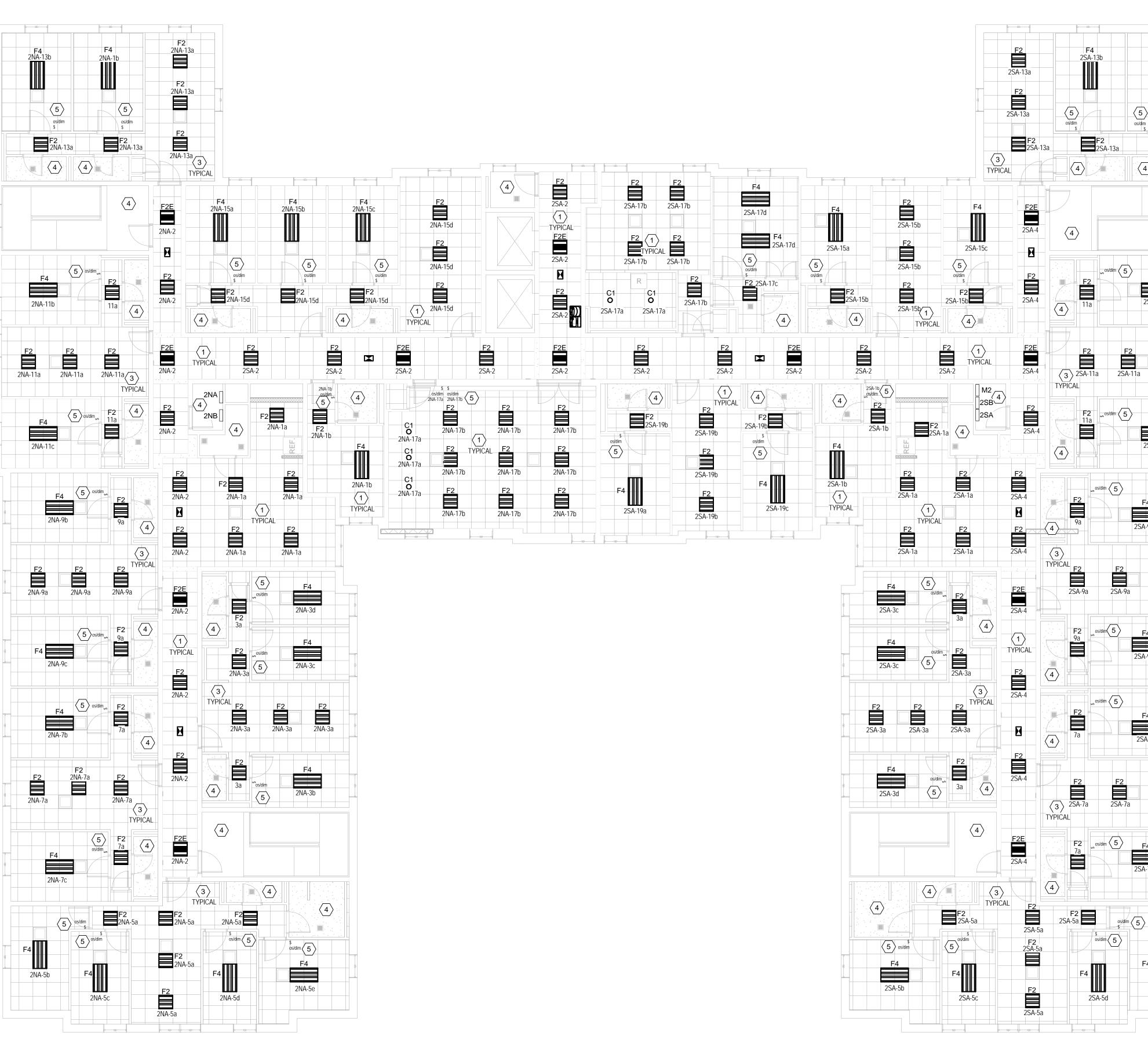
- 1. AS PER BASE BID, REMOVE EXISTING LIGHT FIXTURE. CONNECT NEW LIGHT FIXTURE TO EXISTING CIRCUIT AND SWITCHING. EXTEND WIRE AS NEEDED.
- AS PER ALTERNATE BID NO. 1 CONNECT NEW LIGHT FIXTURE TO EXISTING CIRCUIT AND SWITCHING. EXTEND WIRE AS NEEDED.
- AS PER ALTERNATE BID NO. 2 CONNECT NEW LIGHT FIXTURE TO EXISTING CIRCUIT AND SWITCHING. EXTEND WIRE AS NEEDED.
- EXISTING LIGHT FIXTURES AND CONTROLS TO REMAIN.
- SWITCH BOX TO HAVE DUAL TECHNOLOGY OCCUPANCY SENSOR WITH DIMMER.

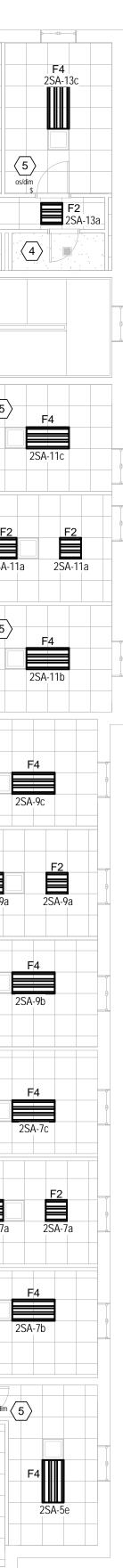
#### Xavier University **Buenger Hall** Renovation

3848 Ledgewood Drive Cincinnati, Ohio 45207 Project #: 16016

304 East Eighth Cincinnati OH 45202-2231 v. (513) 665-9555 f. (513) 665-9857 glaserworks architecture & urban design 12/05/16 PLUMBING, MECHANICAL & **ELECTRICAL ENGINEERS: Motz Engineering** 300 West 4th Street, Suite 300 Cincinnati, OH 45202-2666 T: 513.621.5400 F: 513.621.5407 MEP Design Security Sustainable Design Commissioning Design Build STRUCTURAL ENGINEERS: schaefer 10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 T: 513.542.3300 F: 513.542.5540 SHEET REVISION REV # DATE DESCRIPTION DESCRIPTION DATE BIDDING AND PERMIT 02/16/2017 **NEW WORK FIRST FLOOR** LIGHTING PLAN

**EL101** 





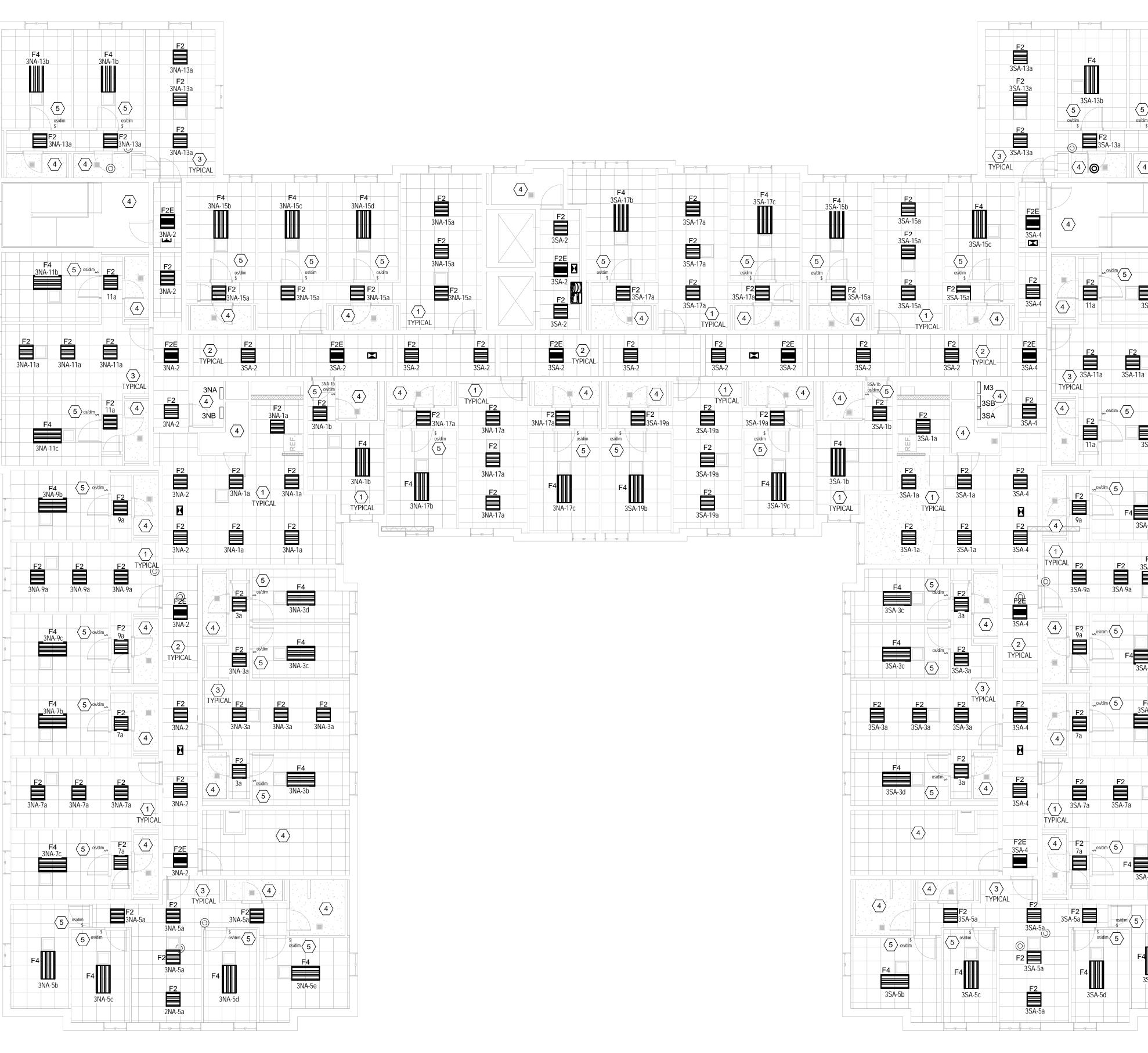
- A. UNLESS OTHERWISE NOTED, EXISTING EXIT LIGHT FIXTURES ARE TO REMAIN.
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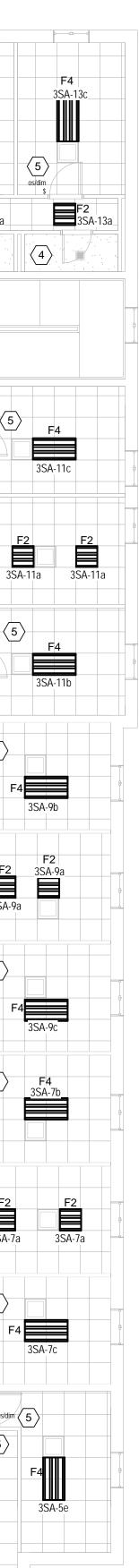
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#### DRAWING NOTES: (#)

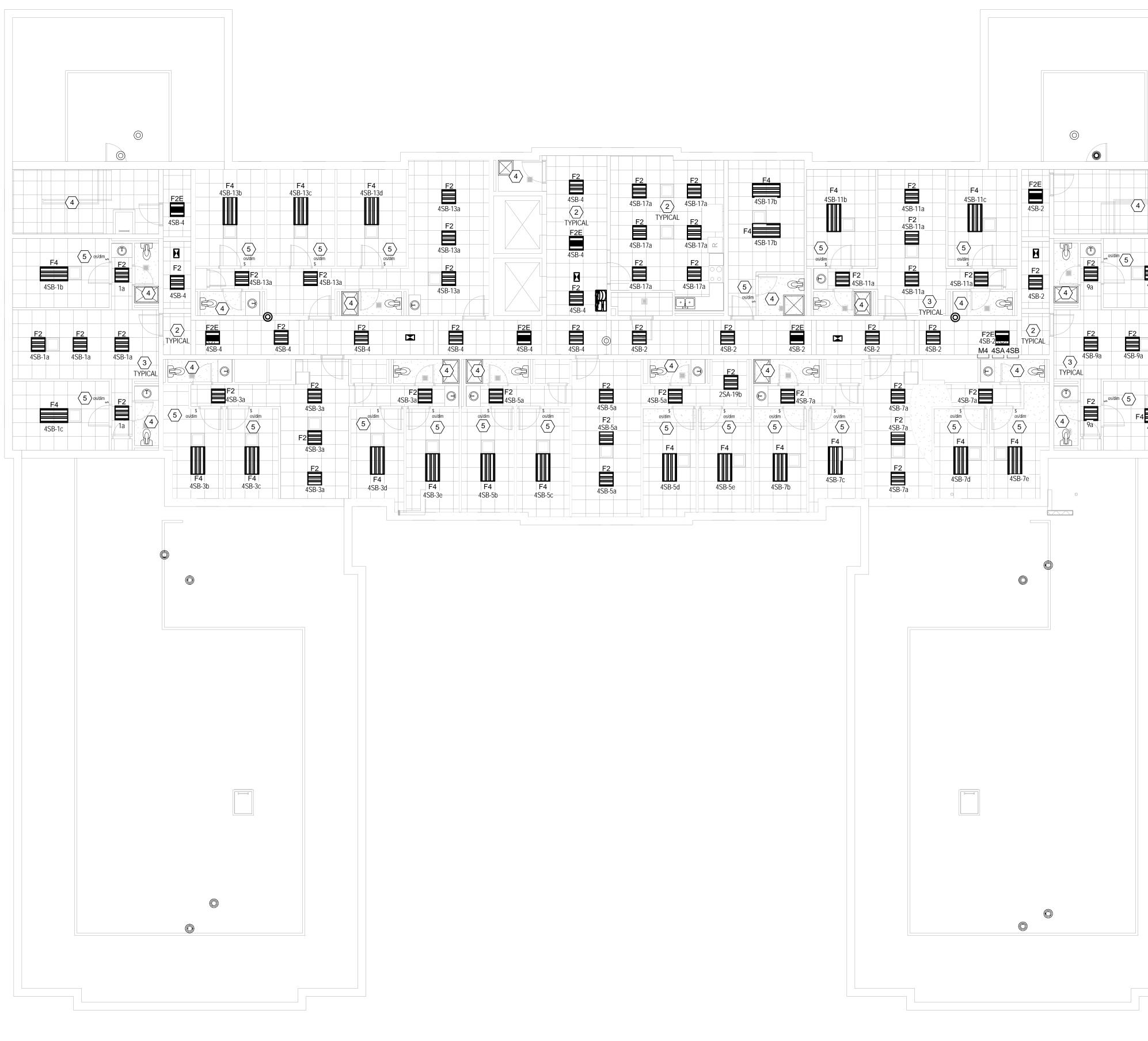
DEDICATED CIRCUIT.

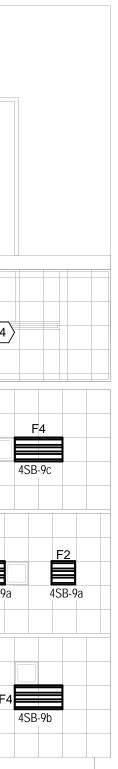
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- 4. EXISTING LIGHT FIXTURES AND CONTROLS TO REMAIN.
- 5. SWITCH BOX TO HAVE DUAL TECHNOLOGY OCCUPANCY SENSOR WITH DIMMER.



LIGHTING PLAN

**EL103** 



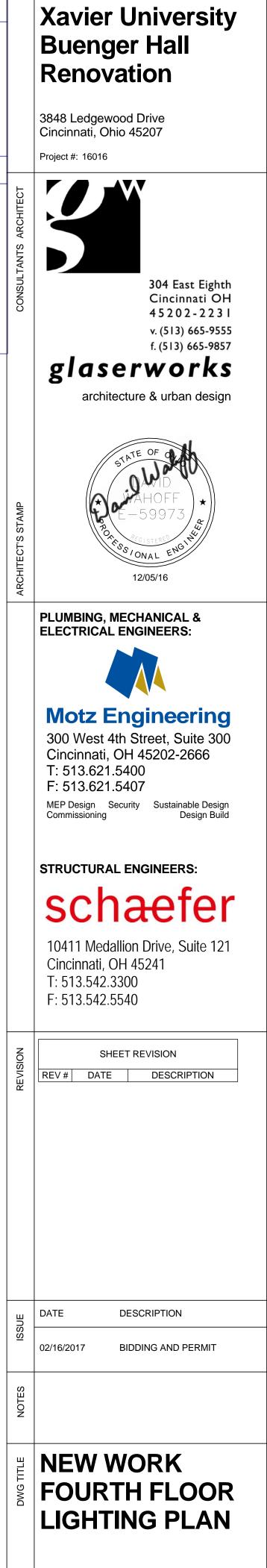


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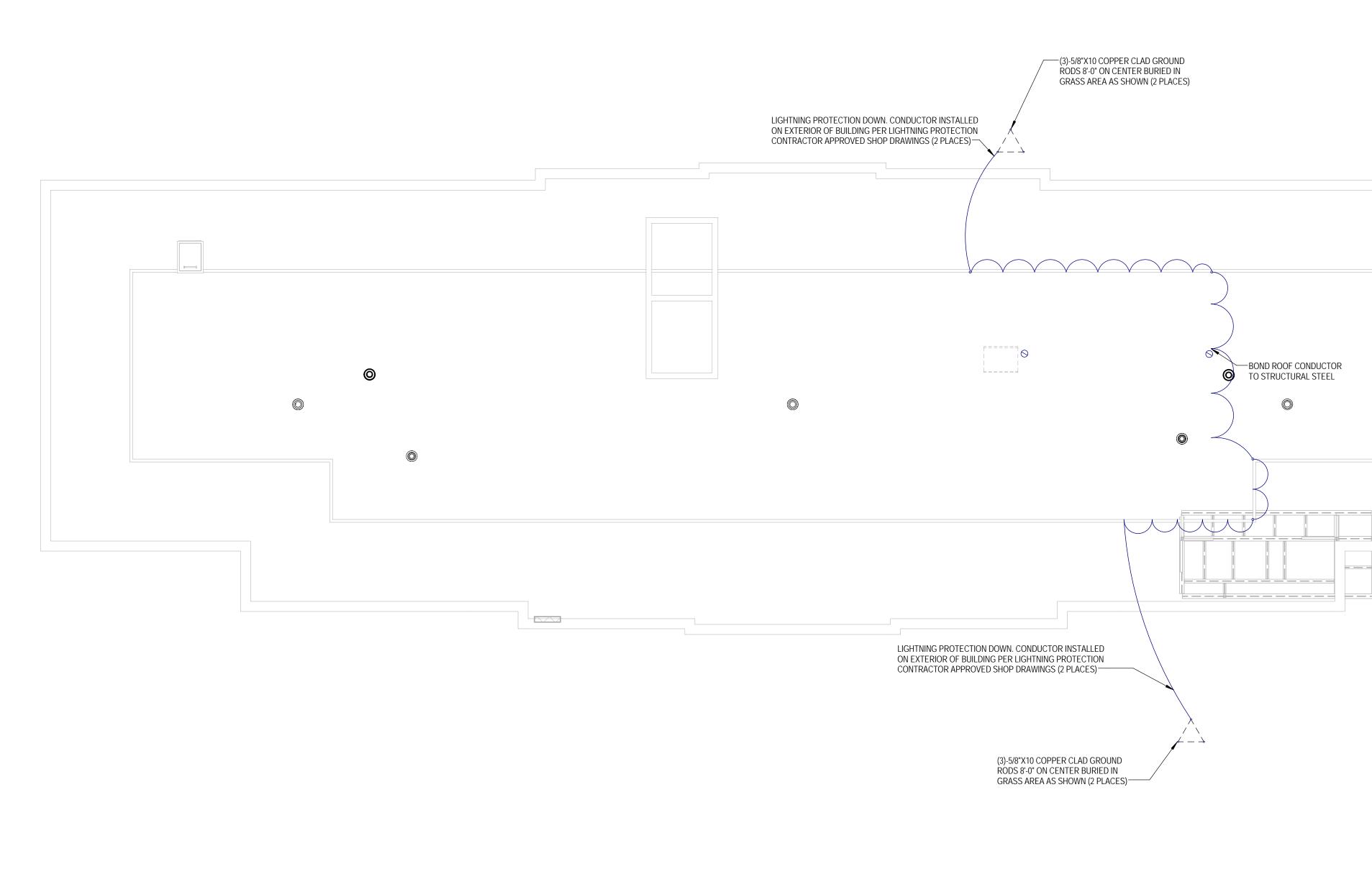
#### DRAWING NOTES: 🖉

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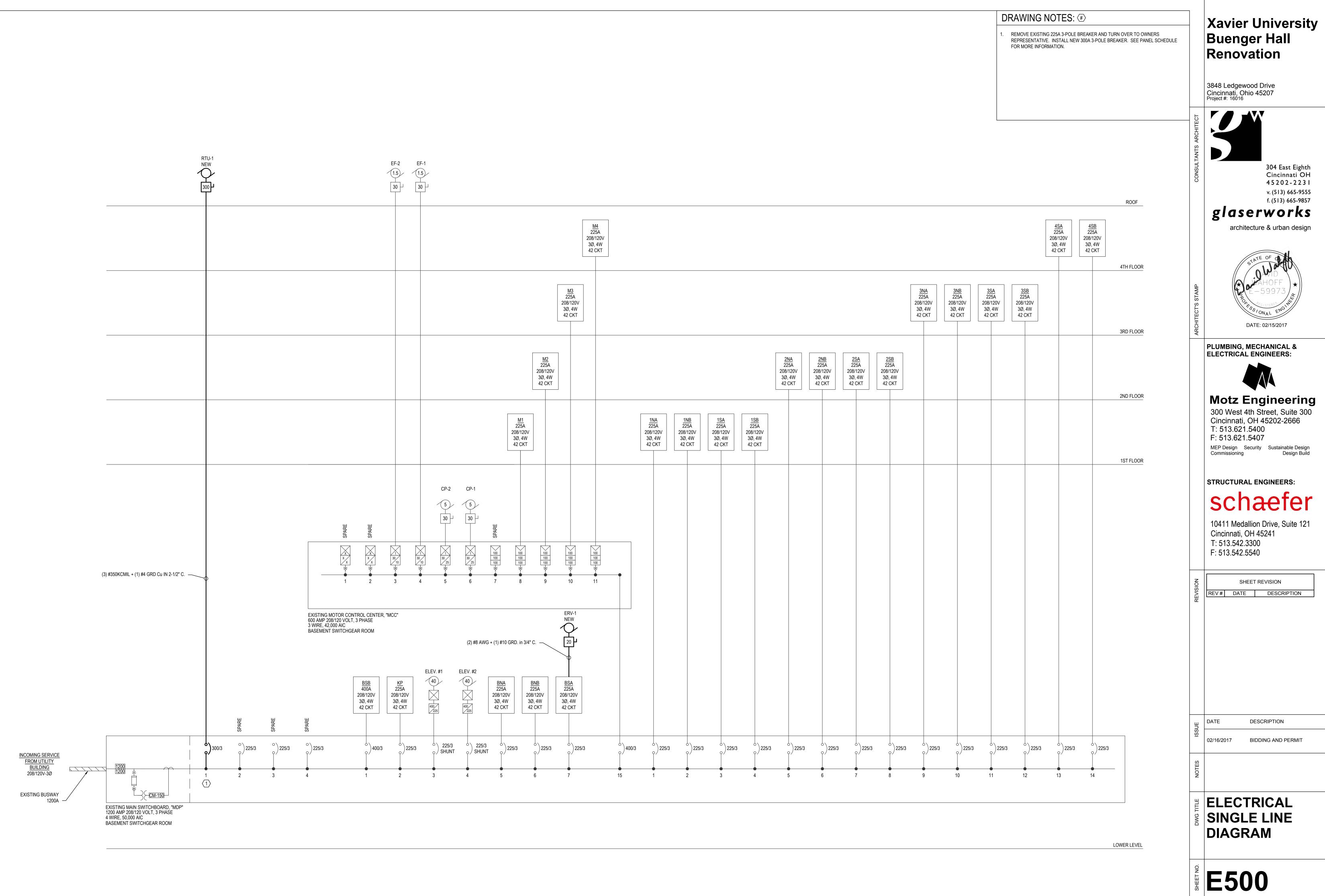
**EL104** 







		Xavier University Buenger Hall Renovation
		3848 Ledgewood Drive Cincinnati, Ohio 45207 Project #: 16016
	CONSULTANTS ARCHITECT	304 East Eighth Cincinnati OH 45202-2231 v. (513) 665-9555 f. (513) 665-9857 <b>glaserworks</b> architecture & urban design
	ARCHITECT'S STAMP	STATE OF
		PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS:
	REVISION	10411 Medallion Drive, Suite 121         Cincinnati, OH 45241         T: 513.542.3300         F: 513.542.5540         SHEET REVISION         REV # DATE DESCRIPTION
	SUE	DATE DESCRIPTION
	S	02/16/2017 BIDDING AND PERMIT
	NOTES	
	DWG TITLE	NEW WORK ROOF LIGHTING PLAN
PRINT DATE: 2/15/2017 8:20:20 PM	SHEET NO.	EL105

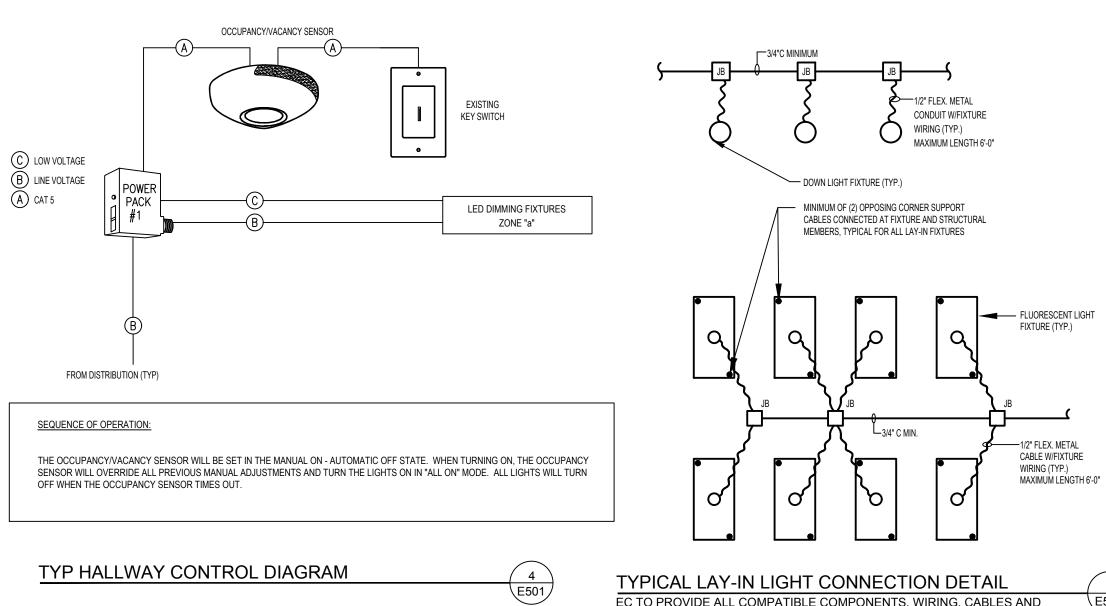


PRINT DATE: 2/15/2017 7:54:03 PM

AAD	AUTOMATIC DAMPER	EQUIP	EQUIPMENT	OPG	OPENING
AAV	AUTOMATIC AIR VENT	EQUIV	EQUIVALENT	PC	PLUMBING CONTRACTOR
AB	ABOVE COUNTER	EWC	ELECTRIC WATER COOLER	PERIM	PERIMETER
AC	ALTERNATING CURRENT	EXCL	EXCLUDING	PH	PHASE
AC-*	AIR CONDITIONING UNIT	EXIST	EXISTING	PHWP	PRIMARY HOT WATER PUMP
AD	ACCESS DOOR	EXP	EXPANSION	PLBG	PLUMBING
ADD'L		FA		PSI	
ADJ AFF		FIN FL	FINISHED FLOOR	PVC RP	
AFF	ABOVE FINISHED FLOOR ALTERNATE	FL FPC	FLOOR FIRE PROTECTION CONTRACTOR	REF	RECIRCULATION PUMP REFERENCE
ALT	ALUMINUM	FPC	FAN POWERED VAV	REQ'D	REQUIRED
ALOW	AMPERE	FPVAV	FLOW SWITCH	REQD	
AMP	ACCESS PANEL	GC	GENERAL CONTRACTOR	REV	REVISE(D) (ION) ROOM
APPROX	APPROXIMATE	GFI	GROUND FAULT INTERRUPTER	RPM	REVOLUTIONS PER MINUTE
ARCH	ARCHITECT(URAL)	GFP	GROUND FAULT PROTECTED - GFCI	SCHED	SCHEDULE
AUTO	AUTOMATIC	BREAKER		SECT	SECTION
AVG	AVERAGE	GND	GROUND	SHWP	SECONDARY HOT WATER PUMP
BAS	BUILDING AUTOMATION SYSTEM	HORIZ	HORIZONTAL	SHT	SHEET
BE	BOTTOM ELEVATION	HP	HORSEPOWER	SM	SURFACE MOUNT
BFP	BACKFLOW PREVENTER	HR	HOUR	SMR	SURFACE MOUNT RACEWAY
BHP	BRAKE HORSEPOWER	HT	HEAT TRACE	SP	SUMP PUMP
BLDG	BUILDING	HVAC	HEATING, VENTILATING AND AIR	SPEC	SPECIFICATIONS
BLR	BOILER	CONDITIONING		SQ	SQUARE
BOT	BOTTOM	HX	HEAT EXCHANGER	SQ FT/SF	SQUARE FOOT (FEET)
BP	BOOSTER PUMP	IE	INVERT ELEVATION	SQ IN	SQUARE INCHES
CA	COMPRESSED AIR	IN	INCH	SS	STAINLESS STEEL
CAF	COMBUSTION AIR FAN	INV	INVERT	STD	STANDARD
CCW	COUNTER CLOCKWISE	KEC	KITCHEN EQUIPMENT CONTRACTOR	STL	STEEL
CH		KH	KITCHEN HOOD	STRUCT	STRUCTURAL
CHWP COL	CHILLED WATER PUMP	KV		TCC	TEMPERATURE CONTROL CONTR
CONN	COLUMN CONNECTION	KVA	KILO-VOLT AMPERES	TCV TS	TEMPERATURE CONTROL VALVE
CU	CONDENSING UNIT	KW KWH	KILOWATT KILOWATT HOURS	TSTAT	TAMPER SWITCH THERMOSTAT
CUH	CABINET UNIT HEATER	MAT'L	MATERIAL	TYP	TYPICAL
CW	CLOCKWISE	MAX	MAXIMUM	UG,UDG	UNDERGROUND
CWP	CONDENSING WATER PUMP	MC	MECHANICAL CONTRACTOR	UH	UNIT HEATER
DC	DIRECT CURRENT	MECH	MECHANICAL	UON	UNLESS OTHERWISE NOTED
DDC	DIRECT DIGITAL CONTROL	MFG/MFGR	MANUFACTURER	UNO	UNLESS NOTED OTHERWISE
DET	DETAIL	MH	MANHOLE	V	VOLTS
DF	DRINKING FOUNTAIN	MIN	MINIMUM	VAC	VACUUM
DIA	DIAMETER	MISC	MISCELLANEOUS	VERT	VERTICAL
DN	DOWN	NA	NOT APPLICABLE	VFD	VARIABLE FREQUENCY DRIVE
DWG	DRAWING	NC	NORMALLY CLOSED/NOISE CRITERIA	W/	WITH
EA	EACH	NIC	NOT IN CONTRACT	W/O	WITHOUT
EAH	EXHAUST AIR HOOD	NO	NORMALLY OPEN	WMO	WASH MACHINE OUTLET
EC	ELECTRICAL CONTRACTOR	NOM	NOMINAL	WP	WEATHER PROOF
EL	ELEVATION	NTS	NOT TO SCALE	XP	EXPLOSION PROOF
ELEC	ELECTRIC/ELECTRICAL	OC	ON CENTER		
EQ	EQUAL	000	OCCUPANCY SENSOR		

BUENG	ER HAL	L XAVIER UNIVERSITY			
	LOAD	CALCULATIONS			
LOAD	KW	LOAD FACTOR	CALCULATED LOAD		
PEAK LOAD OF ENTIRE BUILDING (OCTOBER 2016)	121.38	125%	151.7	KW	
LIGHTING LOAD REMOVED	78.73		-78.7	KW	
FCU LOAD REMOVED	12.995		-13.0	KW	
LIGHTING LOAD ADDED	20.846	125%	26.1	KW	
FCU LOAD ADDED	71.472		71.5	KW	
		125%	17.6	KW	
		TOTAL CALCULATED LOAD	157.5	KW	
	TO	TAL CALCULATED AMPERAGE	437.8	AMPS	
	CAPACIT	Y PROVIDED AT SWITCHGEAR	1200.0	AMPS	
тот	AL AVAIL	ABLE CAPACITY (AMPERAGE)	762.2	AMPS	
TC	TAL AVA	ILABLE CAPACITY (KW LOAD)	633.0	KW	

		MODEL NO.	APPROVED EQUAL	SIZE	LAMPS	FIXTURE	VOLTS	INPUT	MOUNTING	REMARKS
	MANUFACTURER		MANUFACTURER	l		KELVIN (K)		WATTS		
C1	PRESCOLITE	LC8LED120-8LCLED630K8WT	APPROVED EQUAL	8" CAN	LED	3000	120	20.2	GRID	8" LED CAN DOWNLIGHT, 3000K
C1D	PRESCOLITE	LC8LED120DM-8LCLED630K8WT	APPROVED EQUAL	8" CAN	LED	3000	120	20.2	GRID	8" LED CAN DOWNLIGHT, 3000K, WITH DIMMING
F2	COLUMBIA	LZPT22-30MLG-LSRS-EDU	APPROVED EQUAL	2' X 2'	LED	3000	UNIV	31	GRID	2' X 2' LED ZERO PLENUM TROFFER, 3000K
F2E	COLUMBIA	LZPT22-30MLG-LSRS-EDU-ELL14	APPROVED EQUAL	2' X 2'	LED	3000	UNIV	31	GRID	2' X 2' LED ZERO PLENUM TROFFER, 3000K WITH EMERGENCY BATTERY KIT
F4	COLUMBIA	LZPT24-30MLG-LSRS-EDDU	APPROVED EQUAL	2' X 2'	LED	3000	UNIV	31	GRID	2' X 4' LED ZERO PLENUM TROFFER, 3000K, WITH DIMMING
J1	HUBBELL	VBGL-1	APPROVED EQUAL	5" JELLY	LED	4100K	UNIV	11	WALL MOUNT	EXTERIOR FIXTURE MOUNTED ON RTU PLATFORM POST



#### OCCUPANCY SENSORS

LOW VOLTAGE SENSOR

P = PASSIVE INFRARED OCCUPANCY SENSOR U = ULTRASONIC OCCUPANCY SENSOR D = DUAL TECHNOLOGY OCCUPANCY SENSOR: PASSIVE INFRARED & ULTRASONIC

INTEGRAL AUTO-MANUAL WALL SWITCH/OCCUPANCY SENSOR (LINE VOLTAGE)

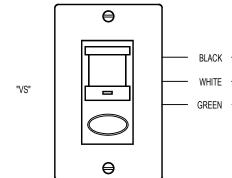
P = PASSIVE INFRARED OCCUPANCY SENSOR (NO CODE LETTER) = ULTRASONIC OCCUPANCY SENSOR D = DUAL TECHNOLOGY OCCUPANCY SENSOR: PASSIVE INFRARED & ULTRASONIC

WALL/CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR

#### ELECTRICAL SYMBOLS

		<u>خ</u> ک	COMBO STARTER/DI
AB ₩P TR	WP-WEATHER PROOF ENCLOSURE TR-TAMPER RESISTANT (HOSPITAL GRADE)	,	
H TR	AB-ABOVE COUNTER		MANUAL STARTER
<b>₽</b>	USB DUPLEX RECEPTACLE	⊠ ⊡	
<b>ዋ</b> ወ	ISOLATED GROUND DUPLEX RECEPTACLE		JUNCTION BOX
₽ _{ISO}	DEDICATED DUPLEX RECEPTACLE	(M)	METER
₽ _{ded} ₽	QUAD RECEPTACLE	€ ↔	STATIC GROUND
н <b>Ф</b>	GFCI / GFP QUAD RECEPTACLE	Ê	EMERGENCY PUSH
			2-POSITION SELECT
₽ _{ISO}		PC	POWER CONNECTIO
⊕ _{DED}		LPM	ELECTRIC PANEL - P
Ф _{CLNG}		LPM-1	CIRCUIT NUMBER 1
	CEILING QUAD RECEPTACLE	LPM-3a	CIRCUIT NUMBER 3 F
$\boxtimes$	POWER POLE	_	THROUGH SWITCH a
₽	EQUIPMENT RECEPTACLE	<del></del>	SURFACE MOUNTED
$\square$	FLOOR DUPLEX RECEPTACLE (BOX AT 6" ABOVE FLOOR)	///	FLUSH MOUNTED PA
<b>₽</b>	FLOOR QUAD RECEPTACLE (BOX AT 6" ABOVE FLOOR)	O	CONDUIT STUBBED (
φ	SIMPLEX RECEPTACLE		CONDUIT STUBBED I
$\square$	2-POLE HIGH VOLTAGE RECEPTACLE		2x4 LIGHT
$\bigtriangledown$	3-POLE / WELDING RECEPTACLE		2x4 NITE CIRCUIT LIG
AV	AUDIO / VISUAL		1x4 LIGHT
	SURFACE MOUNT RACEWAY		1x4 NITE CIRCUIT LIG
<b>⊲</b> 1G	4x4 DEEP J-BOX WITH 1-GANG PLASTER RING W/1"C TO CEILING SPACE U.N.O.**		2x2 LIGHT
⊲ 2G	4x4 DEEP J-BOX WITH 2-GANG PLASTER RING W/(2) 1"C TO CEILING SPACE U.O.N**		2x2 NITE CIRCUIT LIG
<b>⊲</b> 3G	3-GANG DEEP J-BOX WITH 3-GANG PLASTER RING W/(3) 1"C TO CEILING SPACE U.O.N**		4' INDUSTRIAL STRIP
$\heartsuit$	FLOOR DATA JACK (BOX AT 6" ABOVE FLOOR)		8' INDUSTRIAL STRIP
$\triangleleft$ M	4x4 DEEP J-BOX FOR MICROPHONE JACK		STAIR LIGHT
CR	BACK BOX FOR PROXIMITY CARDREADER	ю	WALL MOUNTED SCO
KP	BACK BOX FOR SECURITY SYSTEM KEYPAD	0	CAN LIGHT
PB	BACK BOX FOR ADA DOOR OPERATOR PUSHBUTTON	٠	NITE CAN LIGHT
SB	BACK BOX FOR INTERCOM OUTDOOR SPEAKER		4' UNDER COUNTER
СМ	2-GANG BACK BOX FOR CEILING MICROPHONE		2' STRIP LIGHT
FM	2-GANG BACK BOX FOR FLOOR MICROPHONE	<b>—</b>	4' STRIP LIGHT
WM	2-GANG BACK BOX FOR WALL MICROPHONE	<b></b>	≠ 8' STRIP LIGHT
	2-GANG BACK BOX FOR VOLUME CONTROL	$\bigotimes$	EXIT LIGHT W/NUMB
	DOOR ALARM CONTACT	$\overline{\mathbf{x}}$	EXIT LIGHT W/DIREC
	ELECTRONIC DOOR LATCH		EMERGENCY LIGHT
	ADA ELECTRIC DOOR OPERATOR		EXIT/EMERG COMBIN
中 今	MOTOR	V	EXIT/EMERG WITH R
С Г	DISCONNECT SWITCH	<b>√−</b> ⊳ \$ 2,3,4	SWITCH (2=2 POLE, 3
	FUSED DISCONNECT SWITCH	\$ P/L	SWITCH (P/L=W/PILO
			•

#### BUENGER HALL AT XAVIER UNIVERSITY - LIGHTING FIXTURE SCHEDULE



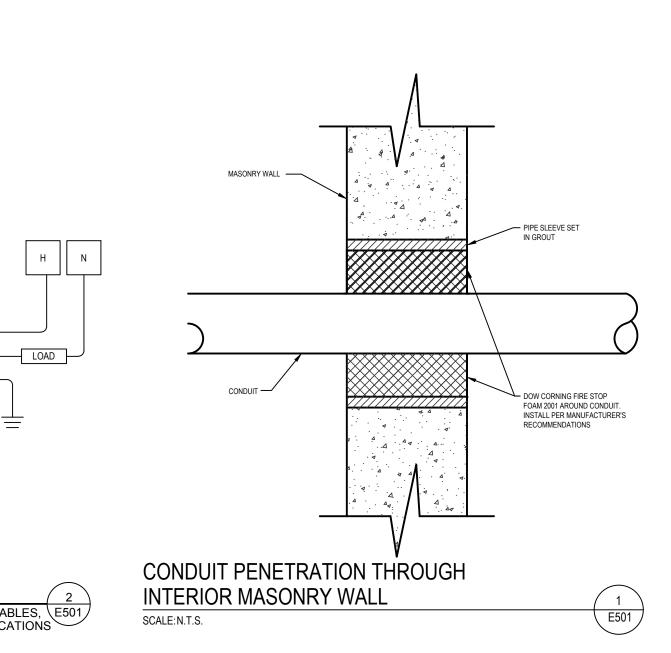
NOTES: * BEDROOMS = SMALL AREAS W/ SINGLE DOOR ENTRY. DUAL TECH VACANCY SENSOR - MANUAL ON AND AUTO OFF TIMER FOR LIGHTS TO BE SET AT 10 MINUTES

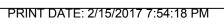
VACANCY SENSOR WIRING DIAGRAM 1 CIRCUIT WITH WALL SWITCH SENSOR EC TO PROVIDE ALL COMPATIBLE COMPONENTS, WIRING, CABLES, \E501, COMMISIONING ACCORDING TO MANUFACTURER & SPECIFICATIONS

EC TO PROVIDE ALL COMPATIBLE COMPONENTS, WIRING, CABLES AND COMMISIONING ACCORDING TO MANUFACTURER & SPECIFICATIONS

	6 <u>j</u>	COMBO STARTER/DISCONNECT	\$ LV	LC
	$\boxtimes$	MANUAL STARTER	\$мс	Pl
	$\square$	MAGNETIC STARTER/DISCONNECT SWITCH COMBO	К	KE
	J	JUNCTION BOX	Ф	DI
	M	METER	Ø	BC
	٢	STATIC GROUND		BC
	Ê	EMERGENCY PUSH BUTTON	н©	W
		2-POSITION SELECTOR SWITCH	нS	W
	PC	POWER CONNECTION - HEAT TRACE	μŢ	W
	LPM	ELECTRIC PANEL - PANEL NUMBER M	(S)	CE
	LPM-1	CIRCUIT NUMBER 1 TO PANEL NUMBER M	(SP)	CE
	LPM-3a	CIRCUIT NUMBER 3 FROM LPM CONTROLLED THROUGH SWITCH a	SV	CE
	····	SURFACE MOUNTED PANELBOARD	VS - IC	DC W
OR)	///	FLUSH MOUNTED PANELBOARD		CC
R)	O	CONDUIT STUBBED UP		
	•	CONDUIT STUBBED DOWN	(M)	SE
		2x4 LIGHT	WAP	W
		2x4 NITE CIRCUIT LIGHT		ΕX
		1x4 LIGHT	···· ···	E)
		1x4 NITE CIRCUIT LIGHT		ΕX
TO CEILING SPACE U.N.O.**		2x2 LIGHT	Щ́ но	EX
"C TO CEILING SPACE U.O.N**		2x2 NITE CIRCUIT LIGHT	_ 	PC
/(3) 1"C TO CEILING SPACE U.O.N**		4' INDUSTRIAL STRIP LIGHT		PC
		8' INDUSTRIAL STRIP LIGHT		
		STAIR LIGHT		PC
	ю	WALL MOUNTED SCONCE		
	0	CAN LIGHT		PC
l	•	NITE CAN LIGHT		
		4' UNDER COUNTER LIGHT	6 0	BF
		2' STRIP LIGHT	৹৾৹⊢□	FL
		4' STRIP LIGHT	ulu	TF
		8' STRIP LIGHT	atr.	
	$\overline{\mathbf{x}}$	EXIT LIGHT W/NUMBER OF FACES INDICATED	45KVA	TF
	$\bigotimes_{\mathbf{A},\mathbf{A}}$	EXIT LIGHT W/DIRECTIONAL ARROWS	$\downarrow$	
				NC SE
	$\nabla$			TE
				NE
	\$ 2,3,4	SWITCH (2=2 POLE, 3=3-WAY, 4=4-WAY)		ΕX

LOW VOLTAGE SWITCH PUSH BUTTON MASTER CONTROL SWITCH KEY OPERATED SWITCH DIMMER SWITCH BOLLARD - ROUND BOLLARD - SQUARE WALL MOUNTED CLOCK WALL MOUNTED CLOCK WALL MOUNTED SPEAKER WALL MOUNTED THERMOSTAT CEILING MOUNTED ROOM SOUND SYSTEM SPEAKER CEILING MOUNTED PA SPEAKER CEILING MOUNTED PA SPEAKER CEILING MOUNTED PA SPEAKER W/ INTEGRAL VOLUME CONTROL DOOR RELEASE VIEWING STATION (VS) CONNECTED TO REMOTE INTERCOM WITH CAMERA CALL STATION. SEE TECHNOLOGY SHEETS. CCTV CAMERA SECURITY SYSTEM MOTION DETECTOR WIRELESS ACCESS POINT	
KEY OPERATED SWITCH DIMMER SWITCH BOLLARD - ROUND BOLLARD - SQUARE WALL MOUNTED CLOCK WALL MOUNTED CLOCK WALL MOUNTED SPEAKER WALL MOUNTED SPEAKER WALL MOUNTED THERMOSTAT CEILING MOUNTED ROOM SOUND SYSTEM SPEAKER CEILING MOUNTED PA SPEAKER W/ INTEGRAL VOLUME CONTROL DOOR RELEASE VIEWING STATION (VS) CONNECTED TO REMOTE INTERCOM WITH CAMERA CALL STATION. SEE TECHNOLOGY SHEETS. CCTV CAMERA SECURITY SYSTEM MOTION DETECTOR WIRELESS ACCESS POINT	
DIMMER SWITCH BOLLARD - ROUND BOLLARD - SQUARE WALL MOUNTED CLOCK WALL MOUNTED CLOCK WALL MOUNTED SPEAKER WALL MOUNTED THERMOSTAT CEILING MOUNTED THERMOSTAT CEILING MOUNTED PA SPEAKER CEILING MOUNTED PA SPEAKER CEILING MOUNTED PA SPEAKER W/ INTEGRAL VOLUME CONTROL DOOR RELEASE VIEWING STATION (VS) CONNECTED TO REMOTE INTERCOM WITH CAMERA CALL STATION. SEE TECHNOLOGY SHEETS. CCTV CAMERA SECURITY SYSTEM MOTION DETECTOR WIRELESS ACCESS POINT	
BOLLARD - ROUND BOLLARD - SQUARE WALL MOUNTED CLOCK WALL MOUNTED CLOCK WALL MOUNTED SPEAKER WALL MOUNTED THERMOSTAT CEILING MOUNTED THERMOSTAT CEILING MOUNTED ROOM SOUND SYSTEM SPEAKER CEILING MOUNTED PA SPEAKER CEILING MOUNTED PA SPEAKER W/ INTEGRAL VOLUME CONTROL DOOR RELEASE VIEWING STATION (VS) CONNECTED TO REMOTE INTERCOM WITH CAMERA CALL STATION. SEE TECHNOLOGY SHEETS. CCTV CAMERA SECURITY SYSTEM MOTION DETECTOR WIRELESS ACCESS POINT	
BOLLARD - SQUARE WALL MOUNTED CLOCK WALL MOUNTED SPEAKER WALL MOUNTED THERMOSTAT CEILING MOUNTED THERMOSTAT CEILING MOUNTED PA SPEAKER CEILING MOUNTED PA SPEAKER CEILING MOUNTED PA SPEAKER W/ INTEGRAL VOLUME CONTROL DOOR RELEASE VIEWING STATION (VS) CONNECTED TO REMOTE INTERCOM WITH CAMERA CALL STATION. SEE TECHNOLOGY SHEETS. CCTV CAMERA SECURITY SYSTEM MOTION DETECTOR WIRELESS ACCESS POINT	
WALL MOUNTED CLOCK WALL MOUNTED SPEAKER WALL MOUNTED THERMOSTAT CEILING MOUNTED ROOM SOUND SYSTEM SPEAKER CEILING MOUNTED PA SPEAKER CEILING MOUNTED PA SPEAKER W/ INTEGRAL VOLUME CONTROL DOOR RELEASE VIEWING STATION (VS) CONNECTED TO REMOTE INTERCOM WITH CAMERA CALL STATION. SEE TECHNOLOGY SHEETS. CCTV CAMERA SECURITY SYSTEM MOTION DETECTOR WIRELESS ACCESS POINT	
WALL MOUNTED SPEAKER WALL MOUNTED THERMOSTAT CEILING MOUNTED ROOM SOUND SYSTEM SPEAKER CEILING MOUNTED PA SPEAKER CEILING MOUNTED PA SPEAKER W/ INTEGRAL VOLUME CONTROL DOOR RELEASE VIEWING STATION (VS) CONNECTED TO REMOTE INTERCOM WITH CAMERA CALL STATION. SEE TECHNOLOGY SHEETS. CCTV CAMERA SECURITY SYSTEM MOTION DETECTOR WIRELESS ACCESS POINT	
WALL MOUNTED THERMOSTAT CEILING MOUNTED ROOM SOUND SYSTEM SPEAKER CEILING MOUNTED PA SPEAKER CEILING MOUNTED PA SPEAKER W/ INTEGRAL VOLUME CONTROL DOOR RELEASE VIEWING STATION (VS) CONNECTED TO REMOTE INTERCOM WITH CAMERA CALL STATION. SEE TECHNOLOGY SHEETS. CCTV CAMERA SECURITY SYSTEM MOTION DETECTOR WIRELESS ACCESS POINT	
CEILING MOUNTED ROOM SOUND SYSTEM SPEAKER CEILING MOUNTED PA SPEAKER CEILING MOUNTED PA SPEAKER W/ INTEGRAL VOLUME CONTROL DOOR RELEASE VIEWING STATION (VS) CONNECTED TO REMOTE INTERCOM WITH CAMERA CALL STATION. SEE TECHNOLOGY SHEETS. CCTV CAMERA SECURITY SYSTEM MOTION DETECTOR WIRELESS ACCESS POINT	
CEILING MOUNTED PA SPEAKER CEILING MOUNTED PA SPEAKER W/ INTEGRAL VOLUME CONTROL DOOR RELEASE VIEWING STATION (VS) CONNECTED TO REMOTE INTERCOM WITH CAMERA CALL STATION. SEE TECHNOLOGY SHEETS. CCTV CAMERA SECURITY SYSTEM MOTION DETECTOR WIRELESS ACCESS POINT	
CEILING MOUNTED PA SPEAKER W/ INTEGRAL VOLUME CONTROL DOOR RELEASE VIEWING STATION (VS) CONNECTED TO REMOTE INTERCOM WITH CAMERA CALL STATION. SEE TECHNOLOGY SHEETS. CCTV CAMERA SECURITY SYSTEM MOTION DETECTOR WIRELESS ACCESS POINT	
DOOR RELEASE VIEWING STATION (VS) CONNECTED TO REMOTE INTERCOM WITH CAMERA CALL STATION. SEE TECHNOLOGY SHEETS. CCTV CAMERA SECURITY SYSTEM MOTION DETECTOR WIRELESS ACCESS POINT	
WITH CAMERA CALL STATION. SEE TECHNOLOGY SHEETS. CCTV CAMERA SECURITY SYSTEM MOTION DETECTOR WIRELESS ACCESS POINT	
SECURITY SYSTEM MOTION DETECTOR WIRELESS ACCESS POINT	1
WIRELESS ACCESS POINT	
EXTERIOR SCONCE	
EXTERIOR FLOOD LIGHT	
EXTERIOR WALLPACK LIGHT	
EXTERIOR DOOR LIGHT	
POLE W/1 SQUARE LIGHT	
POLE W/2 SQUARE LIGHT	
POLE W/3 SQUARE LIGHT	
POLE W/4 SQUARE LIGHT	
BREAKER - SLD	
FUSE W/ DISCONNECT SWITCH - SLD	
TRANSFORMER - SLD	
TRANSFORMER - SLD	
NOTE	
NOTE: SEE TECHNOLOGY DRAWING T001 FOR ADDITIONAL TECHNOLOGY SPECIFIC SYMBOLS AND LEGENDS.	
NEW WORK	
EXISTING WORK TO REMAIN	
EXISTING WORK TO BE REMOVED	





#### Xavier University **Buenger Hall** Renovation



	TION: BSMT ELECTRIC ROOM						MAIN SIZ	
	ITING: PAD MOUNTED						MAIN TY	PE: MLO
TE				EXISTING TO F				
				FEED THRU L	JGS			
	CIRCUIT BREAKER		KVA		KVA			
		<b>T</b>	32.18	А	0.00			<u> </u>
	RTU (NEW)	300/3	32.10	В	0.00		SPACE	2
	((1217)	000,0	32.18	c	0.00			-
╈			20.33	A	0.00			
	ELEVATOR 1 SHUNT	225/3	20.33	В	0.00		SPACE	4
			20.33	С	0.00			
T			20.33	А	3.72			
	ELEVATOR 2 SHUNT	225/3	20.33	В	3.72	225/3	PANEL 2SA	6
			20.33	С	3.72			
Т			8.70	А	3.68			
	PANEL 1SB	225/3	8.70	В	3.68	225/3	PANEL 3SA	8
			8.70	С	3.68			
			5.41	А	3.49			
	PANEL 1SA	225/3	5.41	В	3.49	225/3	PANEL 4SA	10
			5.41	С	3.49			
			4.86	А	3.83			
	PANEL 3SB	225/3	4.86	В	3.83	225/3	PANEL 4SB	12
+		_	4.86	С	3.83			
	05405		0.00	A	5.77	005 (0		
	SPACE		0.00	В	5.77	225/3	PANEL 1NB	14
╋		-	0.00	C	5.77			
	SPACE		0.00	A B	5.76 5.76	225/3	PANEL 2NB	16
Ί	SFACE		0.00	C	5.76	223/3		
╋			6.90	A	0.00			
	PANEL 2SB	225/3	6.90	В	0.00	225/3	SPARE	18
			6.90	c	0.00			
╈			19.53	A	0.00			
	MCC	400/3	19.53	В	0.00	225/3	SPARE	20
			19.53	С	0.00			
+			27.00	A	8.79			+
	PANEL BSB	400/3	27.00	В	8.79	225/3	PANEL KP	22
			27.00	С	8.79			
Τ			0.00	А	0.00			
	SPACE		0.00	В	0.00		SPACE	24
			0.00	С	0.00			
	AMPS PER PHASE:		1,234.1	1,234.08	1,234.08			
		ONNECT		DEM	IAND KVA			
	LIGHT at 125%	43.			54.4			
RE	CPT. (100% 1st 10KVA + 50% REMAINING	134			72.2			
-	MOTOR (100% + 25% OF LARGEST)	133			133.4			
-	EQUIPMENT NON-CONTINUOUS. (100%)	9.1			9.1			
-	EQUIPMENT CONTINUOUS. (125%)							
┝	HEAT (100%) KITCHEN	6.6			6.6			
		0.0	,		0.0			
	TOTAL KVA	327	9		276.8			
	TOTAL AMPS	910			768.9			

LOC	EL: MDP SECTION B ATION: BSMT ELECTRIC ROOM INTING: PAD MOUNTED							208/120V, 3PH, 4 MAIN SIZE: 120 MAIN TYPE: MI
NOT	ES:			EXISTIN	G TO RE	MAIN		
+ NE	W CIRCUIT BREAKER			FEED T	HRU LUC	SS		
# GF	I CIRCUIT BREAKER							
'* AF	CI CIRCUIT BREAKER		KVA		KVA			
			0.00	А	0.00			
3	FEED TELE. RM	225/3	0.00	В	0.00			
			0.00	С	0.00			
			8.79	А	0.00			
4	PANEL BSA	225/3	8.79	В	0.00			
			8.79	С	0.00			
			5.69	А	0.00			
5	PANEL BNA	225/3	5.69	В	0.00			
			5.69	С	0.00			
			5.12	А	0.00			
6	PANEL 1NA	225/3	5.12	В	0.00			
			5.12	С	0.00			
			0.00	А	0.00			
	SPACE		0.00	В	0.00			
			0.00	С	0.00			
			0.00	А	0.00			
	SPACE		0.00	В	0.00			
			0.00	С	0.00			
			3.82	А	0.00			
7	PANEL 2NA	225/3	3.82	В	0.00			
			3.82	С	0.00			
			4.28	А	0.00			
8	PANEL 3NA	225/3	4.28	В	0.00			
			4.28	С	0.00			
			4.38	А	0.00			
9	PANEL BNB	225/3	4.38	В	0.00			
			4.38	С	0.00			
			0.00	А	0.00			
10	SPARE	225/3	0.00	В	0.00			
			0.00	С	0.00			
			0.00	A	0.00			
11	SPARE	225/3	0.00	В	0.00			
			0.00	С	0.00			
		225/3       0.00       A       0.00         0.00       C       0.00         225/3       8.79       A       0.00         225/3       8.79       A       0.00         225/3       8.79       A       0.00         225/3       5.69       A       0.00         225/3       5.69       C       0.00         5.69       C       0.00						
12	PANEL 3NB	225/3	#REF!	В	0.00			
			#REF!	С	0.00			
	AMPS PER PHASE:							
				DE		VA	т	
	LIGHT at 125%						-	
F	RECPT. (100% 1st 10KVA + 50% REMAINING						-	
	MOTOR (100% + 25% OF LARGEST)						-	
	EQUIPMENT NON-CONTINUOUS. (100%)						-	
	EQUIPMENT CONTINUOUS. (125%)							
	HEAT (100%)						-	
	KITCHEN	0.0	)		0.0			
	-						1	
	TOTAL KVA							
	TOTAL AMPS	195.	.1		179.4			

PAN	EL: BSA							208/120V, 3P	H, 4W
LOC	ATION: BSMT ELECTRIC ROOM		1		1		1	 MAIN SIZE:	225A
ΜΟΙ	INTING: SURFACE MOUNT							MAIN TYPE	МСВ
NOT	ES:				EXISTIN	G TO RE	MAIN	1	
+ NE	W CIRCUIT BREAKER				FEED T	HRU LUC	SS		*****
# GF	I CIRCUIT BREAKER								
"* AF	CI CIRCUIT BREAKER			KVA		KVA			
1	NTG LTG MECH RM 23		20/1	0.63	A	0.54	20/1	RECEPT RM 23	2
3	LTG EL RM 22-24		20/1	0.18	В	0.54	20/1	RECEPT RM 24	4
5	NEW FCU LOADING DOCK		20/1	0.45	С	1.58	20/1	NEW FAN COIL UNITS	6
7	NEW FCU LOADING DOCK		20/1	0.45	A	0.54	20/1	UNIT HEATER RM 15	8
9	EF-3 RM 18		20/1	0.24	В	0.54	20/1	UNIT HEATER RM 15	10
11	EF-4 RM 18		20/1	0.24	С	0.54	20/1	OUTDOOR LTG	12
13	CP-3 RM 23		20/1	0.24	A	0.58	20/1	OUTDOOR LTG	14
15	EF-5 RM 15		20/1	0.24	В	0.54	20/1	OUTDOOR LTG	16
17	JOHNSON CONTROL		20/1	0.50	С	0.54	20/1	PHOTOEYE, RECEPT	18
19				0.90	A	0.66	20/1	REAR OUTSIDE EMG PHONE	20
21	FCU LAUNDRY		20/3	0.90	В	0.36	20/1	REAR OUTSIDE EMG PHONE	22
23				0.90	С	0.54	20/1	REAR OUTSIDE EMG PHONE	24
25	CEIL FAN COIL UNIT, TV REC RM		20/1	0.00	A	0.72	20/1	CARPENTER SHOP RECEPT	26
27	FLOW METER		20/1	0.00	В	0.36	20/1	CARPENTER SHOP RECEPT	28
29	NEW FCUS, RM 022, 019		20/1	0.45	С	0.36	20/1	CARPENTER SHOP LTG	30
31				1.56	A	0.68			32
33	OUTSIDE LTG		30/3	1.56	В	0.68	15/3	HOT WATER, CIRC PUMP	34
35				1.56	С	0.68			36
37	NEW ERV-1 LOADING DOCK	+	20/1	1.69	A	0.90			38
39	SPACE			0.00	В	0.90	20/3	FCU #4, ON LOADING DOCK	40
41	SPACE			0.00	С	0.90			42
	AMPS PER PHASE:			84.0	58.65	76.97			
	LOAD TYPE	со	NNECT	ED KVA	DE	MAND K	VA		
	LIGHT at 125%		7.8			9.7			
F	⊦ RECPT. (100% 1st 10KVA + 50% REMAINING		4.0			4.0			-
	MOTOR (100% + 25% OF LARGEST)		11.4	ŀ		11.4		 	
	EQUIPMENT NON-CONTINUOUS. (100%)		3.2			3.2			
	EQUIPMENT CONTINUOUS. (125%)		0.0			0.0			-
	HEAT (100%)		0.0			0.0			
	KITCHEN		0.0			0.0			
	TOTAL KVA		26.4	ł		28.3			
	TOTAL AMPS		73.2	2		78.6			

	EL: BNB ATION: BSMT ELECTRIC CLOSET							208/120V, 3 MAIN SIZ	-
νοι	INTING: SURFACE MOUNT							MAIN TYP	E: MCB
νот	ES:				EXISTIN	G TO RE	MAIN		
+ NE	W CIRCUIT BREAKER				FEED T	HRU LUC	SS		
# GF	I CIRCUIT BREAKER								
'* AF	CI CIRCUIT BREAKER			KVA		KVA			
1	WASHERS	2	20/1	1.50	А	1.00	20/1	VENDING MACHINE	2
3	WASHERS	2	20/1	1.50	В	1.00	20/1	VENDING MACHINE	4
5	WASHERS	2	20/1	1.50	С	1.00	20/1	VENDING MACHINE	6
7	WASHERS	2	20/1	1.50	А	1.00	20/1	VENDING MACHINE	8
9	WASHERS	2	20/1	1.50	В	1.00	20/1	VENDING MACHINE	10
11	WASHERS	2	20/1	1.50	С	1.00	20/1	VENDING MACHINE	12
13	WASHERS	2	20/1	1.50	А	1.00	20/1	VENDING MACHINE	14
15	WASHERS	2	20/1	1.50	В	1.00	20/1	VENDING MACHINE	16
17	WASHERS	2	20/1	1.50	С	1.00	20/1	VENDING MACHINE	18
19	WASHERS	2	20/1	1.50	А	1.00	20/1	VENDING MACHINE	20
21	SPARE	2	20/1	0.00	В	1.08	20/1	ELEVATOR CKTS	22
23	SPARE	2	20/1	0.00	С	1.08	20/1	ELEVATOR CKTS	24
25	SPARE	2	20/1	0.00	А	1.08	20/1	ELEVATOR CKTS	26
27	SPARE	2	20/1	0.00	В	0.00	20/1	SPARE	28
29	SPARE	2	20/1	0.00	С	0.00	20/1	SPARE	30
31	SPARE	2	20/1	0.00	А	0.00	20/1	SPARE	32
33	SPARE	2	20/1	0.00	В	0.00	20/1	SPARE	34
35	SPARE	2	20/1	0.00	С	0.00	20/1	SPARE	36
37	SPACE			0.00	А	0.00		SPACE	38
39	SPACE			0.00	В	0.00		SPACE	40
41	SPACE			0.00	С	0.00		SPACE	42
	AMPS PER PHASE:			92.3	71.50	71.50			
	LOAD TYPE	CONN	IECTE	ED KVA	DE	MAND K	VA		
	LIGHT at 125%		0.0			0.0			
F	RECPT. (100% 1st 10KVA + 50% REMAINING		3.2			3.2			
	MOTOR (100% + 25% OF LARGEST)		0.0			0.0			
	EQUIPMENT NON-CONTINUOUS. (100%)		15.0	)		15.0			
	EQUIPMENT CONTINUOUS. (125%)		0.0			0.0			
	HEAT (100%)		0.0			0.0			
	KITCHEN		10.0			10.0			
	TOTAL KVA		28.2	!		28.2			
	TOTAL AMPS		78.4			78.4			

PAN	EL: MCC SECT 1								208/120V, 3PH, 4W
LOC	ATION: BSMT ELECTRIC ROOM								MAIN SIZE: 600A
моц	JNTING: PAD MOUNTED								MAIN TYPE: MLO
NOT	ES:				EXISTIN	IG TO RE	MAIN		
+ NE	W CIRCUIT BREAKER				FEED T	HRU LUC	SS		
# GF	I CIRCUIT BREAKER								
"* AF	FCI CIRCUIT BREAKER			KVA		KVA			
1				0.00	А	0.00			2
3	SPACE			0.00	В	0.00			4
5				0.00	С	0.00			6
7				0.00	А	0.00			8
9	SPARE			0.00	В	0.00			10
11				0.00	С	0.00			12
13				3.68	А	0.00			14
15	PANEL M2		100/3	3.68	В	0.00			16
17				3.68	С	0.00			18
	AMPS PER PHASE:			30.7	30.67	30.67			
	LOAD TYPE	со	NNECTI	ED KVA	DE	MAND K	VA		
	LIGHT at 125%		0.0	)		0.0			
F	RECPT. (100% 1st 10KVA + 50% REMAINING		0.0	)		0.0		]	
	MOTOR (100% + 25% OF LARGEST)		11.0	)		11.0		]	
	EQUIPMENT NON-CONTINUOUS. (100%)		0.0	)		0.0		]	
	EQUIPMENT CONTINUOUS. (125%)		0.0	)		0.0			
	HEAT (100%)			)		0.0			
	KITCHEN		0.0	)		0.0		]	
	TOTAL KVA		11.0	)		11.0			
	TOTAL AMPS		30.7	7	30.7				

PAN	EL: MCC SECT 3								208/120V, 3PH, 4W		
	ATION: BSMT ELECTRIC ROOM								MAIN SIZE: 600A		
MOL	INTING: PAD MOUNTED								MAIN TYPE: MLO		
NOT	ES:				EXISTING TO REMAIN						
+ NE	W CIRCUIT BREAKER				FEED T	HRU LUC	GS				
# GF	I CIRCUIT BREAKER										
"* AF	CI CIRCUIT BREAKER			KVA		KVA					
1				0.00	А	0.00			2		
3	SPARE			0.00	В	0.00			4		
5				0.00	С	0.00			6		
7				1.30	А	0.00			8		
9	EF-1		30/3	1.30	В	0.00			10		
11				1.30	С	0.00			12		
13				1.30	А	0.00			14		
15	EF-2		30/3	1.30	В	0.00			16		
17				1.30	С	0.00			18		
19				1.30	А	0.00			20		
21	CIRC. PUMP CP-1		30/3	1.30	В	0.00			22		
23				1.30	С	0.00			24		
25				1.30	А	0.00			26		
27	CIRC. PUMP CP-2		30/3	1.30	В	0.00			28		
29				1.30	С	0.00			30		
	AMPS PER PHASE:			43.2	43.22	43.22					
	LOAD TYPE	со		ED KVA	DE	MAND K	VA				
	LIGHT at 125%		0.0			0.0					
F	RECPT. (100% 1st 10KVA + 50% REMAINING		0.0			0.0					
	MOTOR (100% + 25% OF LARGEST)		54.0	)		78.2					
	EQUIPMENT NON-CONTINUOUS. (100%)		0.0			0.0					
	EQUIPMENT CONTINUOUS. (125%)		0.0			0.0					
	HEAT (100%)	0.0			0.0						
	KITCHEN		4.6			4.6					
	,							1			
	TOTAL KVA				82.8						
	TOTAL AMPS		162.	8		229.9					

PAN	EL: KP							208/120V, 3	BPH, 4W
LOC	ATION: BSMT KITCHEN							MAIN SIZ	ZE: 225A
ΜΟ	INTING: FLUSH MOUNT							MAIN TYF	E: MCE
NOT	ES:				EXISTIN	g to re	MAIN		
+ NE	W CIRCUIT BREAKER				FEED T	HRU LUC	GS		
# GF	I CIRCUIT BREAKER								
"* AF	FCI CIRCUIT BREAKER			KVA		KVA			
1	OVEN RM 11		20/1	1.92	А	0.50	20/1	RECEPT RM 11	2
3	OVEN RM 11		20/1	1.92	В	0.50	20/1	RECEPT RM 11	4
5	OVEN RM 11		20/1	1.92	С	0.50	20/1	RECEPT RM 11	6
7	OVEN RM 11		20/1	1.92	А	0.50	20/1	RECEPT RM 11	8
9	OVEN RM 11		20/1	1.92	В	0.50	20/1	RECEPT RM 11	10
11	SPARE		20/1	0.00	С	0.00	20/1	SPARE	12
13	SPARE		20/1	0.00	A	0.00	20/1	SPARE	14
15	SPARE		20/1	0.00	В	0.00	20/1	SPARE	16
17	SPARE		20/1	0.00	С	0.00	20/1	SPARE	18
19	SPARE		20/1	0.00	Α	0.00	20/1	SPARE	20
21	SPARE		20/1	0.00	в	0.00	20/1	SPARE	22
23	SPARE		20/1	0.00	с	0.00	20/1	SPARE	24
25	SPARE		20/1	0.00	А	0.00	20/1	SPARE	26
27	SPARE		20/1	0.00	в	0.00	20/1	SPARE	28
29	SPARE		20/1	0.00	с	0.00	20/1	SPARE	30
31	SPARE		20/1	0.00	А	0.00		SPACE	32
33	SPACE			0.00	в	0.00		SPACE	34
35	SPACE			0.00	с	0.00		SPACE	36
37	SPACE			0.00	A	0.00		SPACE	38
39	SPACE			0.00	в	0.00		SPACE	40
41	SPACE			0.00	с	0.00		SPACE	42
	AMPS PER PHASE:			40.3	40.33	20.17			
	LOAD TYPE	CON	NECT	ED KVA	DE	MAND K	VA		
	LIGHT at 125%		0.0			0.0			
F	RECPT. (100% 1st 10KVA + 50% REMAINING		2.5			2.5			
	MOTOR (100% + 25% OF LARGEST)		0.0			0.0			
	EQUIPMENT NON-CONTINUOUS. (100%)			0.0					
	EQUIPMENT CONTINUOUS. (125%)			0.0					
	HEAT (100%)		0.0			0.0			
	KITCHEN			9.6					
	TOTAL KVA		12.1			12.1			
	TOTAL AMPS		33.6			33.6			

PAN	EL: MCC SECT 2								208/120V, 3PH, 4W
Loc	ATION: BSMT ELECTRIC ROOM								MAIN SIZE: 600A
ΜΟι	INTING: PAD MOUNTED								MAIN TYPE: MLO
NOT	ES:				EXISTIN	G TO RE	MAIN		
+ NE	W CIRCUIT BREAKER			FEED T	HRU LUG	SS			
# GF	I CIRCUIT BREAKER								
'* AF	CI CIRCUIT BREAKER			KVA		KVA			
1				3.51	А	0.00			2
3	PANEL M1		100/3	3.51	в	0.00			4
5				3.51	С	0.00			6
7				3.48	А	0.00			8
9	PANEL M4		100/3	3.48	В	0.00			10
11				3.48	С	0.00			12
13				3.68	А	0.00			14
15	PANEL M3		100/3	3.68	В	0.00			16
17				3.68	С	0.00			18
	AMPS PER PHASE:			88.9	88.90	88.90			
	LOAD TYPE	CON	NECT	ED KVA	DE	MAND K'	VA		
	LIGHT at 125%		0.0			0.0		]	
ł	RECPT. (100% 1st 10KVA + 50% REMAINING		0.0			0.0		1	
	MOTOR (100% + 25% OF LARGEST)		38.5	5		38.5		1	
	EQUIPMENT NON-CONTINUOUS. (100%)		0.0			0.0		1	
	EQUIPMENT CONTINUOUS. (125%)		0.0		0.0			1	
	HEAT (100%)	0.0			0.0			1	
	KITCHEN		4.6		4.6			]	
	TOTAL KVA			)		43.0		1	
				119.6					

LOC	EL: BSB ATION: BSMT ELECTRIC ROOM INTING: SURFACE MOUNT							208/120V, MAIN SI MAIN TY	ZE: 400
NOT	ES:				EXISTIN	g to re			
+ NE	W CIRCUIT BREAKER				FEED T	HRU LUC	SS		
# GF	I CIRCUIT BREAKER								
"* AF	CI CIRCUIT BREAKER		ΚV	А		KVA			
1	DRYER 1	30/	3.3	8	А	3.38	30/2	DRYER 7	2
3	DRIERI	30/	2 3.3	8	В	3.38	30/2	DRIERI	4
5	DRYER 2	30/	3.3	8	С	3.38	30/2	DRYER 8	6
7	DITEITZ	50/	2 3.3	8	А	3.38	50/2	DITERO	8
9	DRYER 3	30/	2 3.3	8	В	3.38	30/2	DRYER 9	10
11	BRIER'S	50/	2 3.3	8	С	3.38	50/2	DITERS	12
13	DRYER 4	30/	3.3	8	А	3.38	30/2	DRYER 10	14
15	BRIERY		<b>2</b> 3.3	8	в	3.38	00/2	DIVIEN	16
17	DRYER 5	30/	2 3.3	8	С	3.38	30/2	DRYER 11	18
19	BRIERS		<b>-</b> 3.3	8	А	3.38	00/2	BRIERI	20
21	DRYER 6	30/	2 3.3	8	в	3.38	30/2	DRYER 12	22
23	BRIERO		<b>2</b> 3.3	8	С	3.38	00/2	BITERIZ	24
	AMPS PER PHASE:		225		225.00	225.00			
	LOAD TYPE	CONNE		VA .	DE	MAND K	VA		
	LIGHT at 125%		0.0			0.0			
F	RECPT. (100% 1st 10KVA + 50% REMAINING		0.0			0.0			
	MOTOR (100% + 25% OF LARGEST)		0.0			0.0			
	EQUIPMENT NON-CONTINUOUS. (100%)		1.0			81.0			
	EQUIPMENT CONTINUOUS. (125%)		0.0			0.0			
	HEAT (100%)		0.0			0.0			
	KITCHEN		0.0			0.0			
	r								
	TOTAL KVA		1.0			81.0			
	TOTAL AMPS	2	25.0			225.0			

CUNDULIANI	
	PLU ELE
	Mc 300 Cinc T: 5 F: 5 MEP I Comm
	STRU <b>S</b> 1041 Cinci T: 51 F: 51
REVISION	REV#
ISSUE	DATE 02/16/2017
NOLES	
	PANI SCHI
SHEEL NO.	E5

PANEL SCHEDULE LEGEND										
MDP SEC. A	MDP SEC. B	MCC SEC. 1	MCC SEC. 2							
		MCC SEC. 3	BSB							
BSA	BNB	KP								
		PRINT DATE: 2/15/	2017 7:54:33 PM							

	EL: 1NA ATION: 1ST FLOOR NORTH ELECTRI		SET				208/120V, 3F MAIN SIZE	
	INTING: SURFACE MOUNT		361				MAIN SIZE	
NOT				EXISTIN	g to re	MAIN	 MAINTIFE	wc
	W CIRCUIT BREAKER							
	I CIRCUIT BREAKER							
			KVA		KVA			
1	LTG 106-LOUNGE	20/1	0.32	A	0.46	20/1	NTG LTG	2
3	LTG 109-102	20/1	0.48	В	0.00	20/1	SPARE	4
5	LTG 112-103	20/1	0.44	c	0.50	20/1	RECEPT 109-102	6
7	LTG 112-103	20/1	0.37	A	0.72	20/1	RECEPT 109-102	8
, 9	LTG 107-105	20/1	0.37	В	0.12	20/1	RECEPT 102	10
11	LTG 107-105	20/1	0.37	c c	0.10	20/1	RECEPT 109-102	12
13	LTG 101-107	20/1	0.37	A	0.34	20/1	RECEPT 109-102	14
15	LTG 113-108	20/1	0.37	В	0.30	20/1	 RECEPT 109-102	16
17	LTG 117	20/1	0.37	c c	0.72	20/1	RECEPT 112-103	18
17	LTG 116-108 COMM	20/1	0.12	A	0.50	20/1	RECEPT 112-103	20
21	LTG NW STAIRS	20/1	0.00	В	0.30	20/1	RECEPT 112-103	2
23	LTG NE STAIRS	20/1	0.52		0.12	20/1	RECEPT 112-103	24
23 25	LOBBY LTG	20/1	0.51	A	0.18	20/1	RECEPT 112-103	2
23	RECEPT 110-104	20/1	0.50	В	0.34	20/1	RECEPT 112-103	28
27 29	RECEPT 110-104	20/1	0.54		0.30	20/1	 RECEPT 112-103	30
29 31	RECEPT 110-104	20/1	0.18	A	0.72	20/1	FIRE/SMOKE DAMPERS	32
			0.36	В	0.10			34
33	RECEPT 110-104	20/1				20/1	SPARE	-
35 37	RECEPT 110-104	20/1	0.54	C A	0.18	20/1 20/1	COM BOARD	30
	SPARE	20/1	0.00		0.36	20/1	COM BOARD	
39	SPARE	20/1	0.00	В	0.00		SPACE	4(
41	SPACE		0.00	C	0.00		SPACE	42
	AMPS PER PHASE:		48.4	39.81	39.81			
		ONNECTI 5.8			MAND K	VA		
F	RECPT. (100% 1st 10KVA + 50% REMAINING	9.4			9.4			
		0.0			0.0			
	EQUIPMENT NON-CONTINUOUS. (100%)							
	EQUIPMENT CONTINUOUS. (125%)	0.0			0.0			
	HEAT (100%)							
	KITCHEN	0.0			0.0			
	TOTAL KVA	15.4	4		16.8			
		42.7	7		46.7			

-00	ATION: 1ST FLOOR NORTH ELECTR	ICAL CLO	SET				MAIN SIZE: 2	225/
	INTING: SURFACE MOUNT						MAIN TYPE:	MCI
NOT	ES:			EXISTIN	g to re	MAIN		
⊦ NE	W CIRCUIT BREAKER			FEED T	HRU LUC	GS		
# GF	I CIRCUIT BREAKER							
'* AF	CI CIRCUIT BREAKER		KVA		KVA			
1	RECEPT 107-105	20/1	0.54	А	0.54	20/1	RECEPT 101-107	2
3	RECEPT 107-105	20/1	0.36	В	0.36	20/1	RECEPT 101-107	4
5	RECEPT 107-105	20/1	0.36	С	1.00	20/1	VENDING	6
7	RECEPT 107-105	20/1	0.72	А	0.72	20/1	RECEPT 101-107	8
9	RECEPT 107-105	20/1	0.36	В	0.36	20/1	RECEPT 101-107	10
11	RECEPT 104-106	20/1	0.90	С	0.90	20/1	RECEPT 113-108	12
13	RECEPT 104-106	20/1	0.18	А	0.18	20/1	RECEPT 113-108	14
15	RECEPT 106 GFCI	20/1	0.36	В	0.36	20/1	RECEPT 113-108	16
17	RECEPT 104-106	20/1	0.54	С	0.54	20/1	RECEPT 113-108	18
19	RECEPT 104-106	20/1	0.72	А	0.72	20/1	RECEPT 113-108	20
21	RECEPT 106 LOUNGE	20/1	0.72	В	0.72	20/1	RECEPT 117 LOBBY TV LOUNGE	22
23	RECEPT GFCI LOUNGE	20/1	0.54	С	0.54	20/1	RECEPT 117 LOBBY TV LOUNGE	24
25	RECEPT 106 LOUNGE	20/1	0.54	Α	1.00	20/1	DOOR XFMR	26
27	RECEPT 115-101	20/1	0.36	В	0.00	20/1	SPARE	28
29	RECEPT 115-101	20/1	0.18	с	0.00	20/1	SPARE	30
31	RECEPT 115-101	20/1	0.54	А	0.54	20/1	RECEPT 116-108 COMMON	32
33	SPARE	20/1	0.00	В	0.36	20/1	RECEPT 116-108 COMMON	34
35	SPARE	20/1	0.00	С	0.54	20/1	CORR	36
37	SPARE	20/1	0.00	А	0.00	20/1	SPARE	38
39	SPARE	20/1	0.00	В	0.00	20/1	SPARE	40
41	SPARE	20/1	0.00	С	0.00	20/1	SPARE	42
	AMPS PER PHASE:		57.8	36.00	50.33			
	LOAD TYPE	CONNECT	ED KVA	DE	MAND K	VA		
	LIGHT at 125%	0.0			0.0			
F	RECPT. (100% 1st 10KVA + 50% REMAINING	15.3	3		12.7			
	MOTOR (100% + 25% OF LARGEST)	0.0			0.0			
	EQUIPMENT NON-CONTINUOUS. (100%)	0.0			0.0			
	EQUIPMENT CONTINUOUS. (125%)	1.0			1.3			
	HEAT (100%)	0.0			0.0			
	KITCHEN	1.0			1.0			
		17.3	3		14.9			
		48.2			41.4			

PANEI	L: M1						208/120V, 3	3PH, 4\
LOCA.	TION: 1ST FLOOR SOUTH ELECTR		SET				MAIN SIZ	ZE: 225
MOUN	ITING: SURFACE MOUNT						MAIN TYF	PE: MC
NOTES	S:		g to re	MAIN				
+ NEV	V CIRCUIT BREAKER			FEED T	HRU LUC	GS		
# GFI (	CIRCUIT BREAKER							
"* AFC	CI CIRCUIT BREAKER		KVA		KVA			
1	FAN COIL UNITS	20/1	0.52	A	0.52	20/1	FAN COIL UNITS	1
3	FAN COIL UNITS	20/1	0.86	В	0.86	20/1	FAN COIL UNITS	4
5	FAN COIL UNITS	20/1	0.86	с	0.86	20/1	FAN COIL UNITS	(
7	FAN COIL UNITS	20/1	1.04	A	1.04	20/1	FAN COIL UNITS	8
9	FAN COIL UNITS RM 116	20/1	0.52	В	0.69	20/1	FAN COIL UNITS	1
11	FAN COIL UNITS	20/1	0.69	с	0.52	20/1	FAN COIL UNITS	1
13	FAN COIL UNITS	20/1	0.86	A	0.69	20/1	FAN COIL UNITS	1
15	FC LOBBY	20/1	0.00	В	0.00	20/1	SPARE	1
17	SPARE	20/1	0.00	с	0.00	20/1	SPARE	1
19	SPARE	30/2	0.00	A	0.00	20/1	SPARE	2
21	SPARE	30/2	0.00	В	0.00		SPACE	2
23	SPACE		0.00	с	0.00		SPACE	2
25	SPACE		0.00	A	0.00		SPACE	2
27	SPACE		0.00	В	0.00		SPACE	2
29	SPACE		0.00	с	0.00		SPACE	3
31	SPACE		0.00	A	0.00		SPACE	3
33	SPACE		0.00	В	0.00		SPACE	3
35	SPACE		0.00	с (	0.00		SPACE	3
37	SPACE		0.00	A	0.00		SPACE	3
39	SPACE		0.00	В	0.00		SPACE	4
41	SPACE		0.00	C	0.00		SPACE	4
	AMPS PER PHASE:		38.8	24.44	24.44			
	LOAD TYPE	CONNECT	ED KVA	DE	MAND K	VA		
	LIGHT at 125%	0.0	ט		0.0			
RE	CPT. (100% 1st 10KVA + 50% REMAINING	0.0	)		0.0			
	MOTOR (100% + 25% OF LARGEST)	10.	5		10.8			
	EQUIPMENT NON-CONTINUOUS. (100%)	0.0	)		0.0			
	EQUIPMENT CONTINUOUS. (125%)	0.0	)		0.0			
	HEAT (100%)	0.0	)		0.0			
	KITCHEN	0.0	)		0.0			
		10.	5		10.8			
	TOTAL AMPS	29.			30.0			

PAN	EL: 1SA								208/120V, 3PH	H, 4W
LOC	ATION: 1ST FLOOR SOUTH ELECT			MAIN SIZE:	225A					
моц	INTING: SURFACE MOUNT								MAIN TYPE:	MCE
NOT	ES:				EXISTIN	g to re	MAIN			
+ NE	W CIRCUIT BREAKER				FEED T	HRU LUC	GS			
# GF	I CIRCUIT BREAKER									
"* AF	CI CIRCUIT BREAKER			KVA		KVA				
1	LTG 138 - LOUNGE		20/1	0.36	Α	0.14	20/1		NTG LTG CORR	2
3	LTG 141-112		20/1	0.48	в	0.36	20/1		NTG LTG CORR	4
5	LTG 144- 113		20/1	0.44	с	0.36	20/1		RECEPT 141-112	6
7	LTG 142-114		20/1	0.37	А	0.54	20/1		RECEPT 141-112	8
9	LTG 139-115		20/1	0.37	в	0.54	20/1		RECEPT RM 112	10
11	LTG 136-116		20/1	0.37	с	0.36	20/1		RECEPT 141	12
13	LTG 133-117		20/1	0.52	Α	0.72	20/1		RECEPT 141	14
15	LTG 130-110 CONF RM		20/1	0.41	В	0.36	20/1		RECEPT 141	16
17	LTG 123, 125, RESTROOM		20/1	0.63	с	0.36	20/1		RECEPT 144-113	18
19	LTG 127, 129 RA OFFICE		20/1	0.84	Α	0.54	20/1		RECEPT 144	20
21	LTG SW STAIRS		20/1	0.32	в	0.54	20/1		RECEPT 144	22
23	LTG SE STAIR		20/1	0.40	с	0.36	20/1		RECEPT 144	24
25	LTGS 126 RA NIGHT DESK		20/1	0.33	Α	0.72	20/1		RECEPT 144	26
27	RECEPT 142-114		20/1	0.36	в	0.36	20/1		RECEPT 144	28
29	RECEPT 142		20/1	0.54	с	0.54	20/1		RECEPT 144	30
31	RECEPT 142		20/1	0.54	Α	0.18	20/1		FIRE/SMOKE DAMPERS	32
33	RECEPT 142		20/1	0.36	В	0.00	20/1		SPARE	34
35	RECEPT 142		20/1	0.72	с	0.00	20/1		SPARE	36
37	COM BOARD		20/1	0.36	Α	0.00	20/1		SPARE	38
39	COM BOARD		20/1	0.54	в	0.00	20/1		SPARE	40
41	SPARE		20/1	0.00	с	0.00	20/1		SPARE	42
	AMPS PER PHASE:			51.3	41.58	42.28				
	LOAD TYPE	CO	NNECT	ED KVA	DE	MAND K	VA			
	LIGHT at 125%		6.3			7.9		]		
F	RECPT. (100% 1st 10KVA + 50% REMAINING		9.7			9.7				
	MOTOR (100% + 25% OF LARGEST)		0.0			0.0				
	EQUIPMENT NON-CONTINUOUS. (100%)			0.2		1				
	EQUIPMENT CONTINUOUS. (125%)			0.0		1				
	HEAT (100%)		0.0			1				
	KITCHEN			0.0		1				
							-			
	TOTAL KVA	2	17.8							
	TOTAL AMPS			49.5						

	EL: 1SB
	ATION: 1ST FLOO
	JNTING: SURFACE
NOT	ES:
+ NE	W CIRCUIT BREA
# GF	I CIRCUIT BREAK
"* AF	CI CIRCUIT BREA
1	RECEPT
3	RECEI
5	RECEI
7	RECEI
9	RECEI
11	RECEPT
13	RECEI
15	RECEI
17	RECEI
19	RECEI
21	RECEPT 13
23	RECEI
25	RECEI
27	RECEPT
29	RECEPT
31	RECEI
33	CO
35	DISHWASH
37	FIRE ALARM F
39	SPA
41	ALL CARD
	AN
	LOAD
	LIGHT a
F	RECPT. (100% 1st 10K
	MOTOR (100% + 2
	EQUIPMENT NON-CO
	EQUIPMENT CON
	HEAT (
	КІТС

						208/120V, 3PH,	, 4W
SOUTH ELECTI	RICAL CLO	SET				MAIN SIZE: 2	225A
IOUNT						MAIN TYPE: M	ИСВ
			EXISTIN	g to re	MAIN		
R			FEED T	HRU LUC	GS		
ł							
R		KVA		KVA			
39-115	20/1	0.36	А	0.54	20/1	RECEPT 133-117	2
139	20/1	0.54	В	0.36	20/1	RECEPT 133	4
139	20/1	0.54	С	0.36	20/1	RECEPT 133	6
139	20/1	0.36	А	0.36	20/1	RECEPT 133	8
139	20/1	0.72	В	0.54	20/1	RECEPT 133	10
36-116	20/1	0.36	С	2.29	50/2		12
136	20/1	0.54	А	2.29	50/2	OVEN	14
136	20/1	0.54	В	0.36	20/1	RECEPT 133	16
136	20/1	0.54	с	0.54	20/1	RECEPT 133	18
136	20/1	0.36	Α	0.54	20/1	RECEPT 130-110 CONF ROOM	20
LOUNGE	20/1	0.54	в	0.36	20/1	RECEPT 127, 129 RA OFFICE	22
138	20/1	0.54	с	0.72	20/1	RECEPT 127, 129 RA OFFICE	24
138	20/1	0.36	Α	0.36	20/1	RECEPT 127, 129 RA OFFICE	26
32-111	20/1	0.72	в	0.54	20/1	DOOR SECURITY	28
32-111	20/1	0.36	с	0.50	20/1	EMG COMM SYST	30
132	20/1	0.36	Α	1.00	20/1	FIRE ALARM MAIN PANEL	32
र	20/1	0.54	в	0.54	20/1	RECEPTEWC	34
R 133-117	20/1	1.00	с	0.54	20/1	RECEPTEWC	36
OM POWER	20/1	0.54	А	1.00	20/1	FIRE ALARM	38
E	20/1	0.00	в	1.00	20/1	FIRE ALARM	40
ACHINE	20/1	0.54	с	1.00	20/1	FIRE ALARM	42
S PER PHASE:		74.7	60.83	81.90	· · ·		
ΈPE	CONNECT	ED KVA			VA		
25%	0.0	)		0.0			
+ 50% REMAINING	15.5	5		12.7			
OF LARGEST)	0.0	)		0.0			
, INUOUS. (100%)	5.0	)		5.0			
JOUS. (125%)	0.0	1		0.0			
)%)	0.0			0.0			
N	5.6			5.6			
TOTAL KVA	26.7	1		23.4			
TOTAL AMPS	72.5			64.9			
			l				

# Xavier University Buenger Hall Renovation 3848 Ledgewood Drive Cincinnati, Ohio 45207 Project #: 16016 304 East Eighth Cincinnati OH 45202-223 I v. (513) 665-9555 f. (513) 665-9857 glaserworks architecture & urban design DATE: 02/15/2017 PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS: Motz Engineering 300 West 4th Street, Suite 300 Cincinnati, OH 45202-2666 T: 513.621.5400 F: 513.621.5407 MEP Design Security Sustainable Design Commissioning Design Build STRUCTURAL ENGINEERS: schæfer 10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 T: 513.542.3300 F: 513.542.5540 SHEET REVISION REV # DATE DESCRIPTION DESCRIPTION DATE ш BIDDING AND PERMIT 02/16/2017 NOTES PANEL SCHEDULES **FIRST FLOOR** E511

PAN	EL SCHED	DULE LEGE	END
1NA	1NB	1SA	1SB
M1			
		PRINT DATE: 2/15/	2017 7:54:55 PM

	L: 2NA							208/120V, 3F	,
	TION: 2ND FLOOR NORTH ELECT	RICA	AL CLO	SET				MAIN SIZE	
								MAIN TYPE	E: MC
NOTE						G TO RE			
+ NEV	V CIRCUIT BREAKER				FEED T	HRU LUC	3S		
	CIRCUIT BREAKER								
				KVA		KVA		 	_
1	LTG 206-LOUNGE		20/1	0.32	A	0.36	20/1	NTG LTG CORR	_
3	LTG 209-202		20/1	0.48	В	0.00	20/1	SPARE	_
5	LTG 212-203		20/1	0.44	C	0.36	20/1	RECEPT 209-202	
7	LTG 210-204		20/1	0.37	A	0.72	20/1	RECEPT 209-202	
9	LTG 207-205		20/1	0.37	В	0.18	20/1	 RECEPT 209-202	1
11	LTG 204-206		20/1	0.37	С	0.36	20/1	RECEPT 209-202	Ĺ
13	LTG 201-207		20/1	0.37	A	0.36	20/1	RECEPT 209-202	Ĺ
15	LTG 213-208		20/1	0.30	В	0.54	20/1	RECEPT 209-202	1
17	LTG 217-209 CHAPEL		20/1	0.34	С	0.54	20/1	RECEPT 212-203	
19	SPARE		20/1	0.00	Α	0.72	20/1	RECEPT 212-203	í
21	RECEPT 210-204		20/1	0.36	В	0.18	20/1	RECEPT 212-203	2
23	RECEPT 210-204		20/1	0.72	с	0.36	20/1	RECEPT 212-203	2
25	RECEPT 210-204		20/1	0.18	А	0.36	20/1	RECEPT 212-203	2
27	RECEPT 210-204		20/1	0.36	В	0.54	20/1	RECEPT 212-203	2
29	RECEPT 210-204		20/1	0.18	с	0.54	20/1	RECEPT 212-203	3
31	SPARE		20/1	0.00	Α	0.18	20/1	FIRE/SMOKE DAMPERS	
33	SPARE		20/1	0.00	В	0.00	20/1	SPARE	
35	SPARE		20/1	0.00	с	0.00	20/1	SPARE	:
37	SPACE			0.00	А	0.00		SPACE	3
39	SPACE			0.00	в	0.00		SPACE	4
41	SPACE			0.00	с	0.00		SPACE	-
	AMPS PER PHASE:			32.8	27.58	35.06			
	LOAD TYPE	COI	NNECT	ED KVA		MAND K	VA		
Γ	LIGHT at 125%		3.7			4.6			
	CPT. (100% 1st 10KVA + 50% REMAINING		7.6			7.6			
Г	MOTOR (100% + 25% OF LARGEST)		0.0			0.0			
	EQUIPMENT NON-CONTINUOUS. (100%)		0.2			0.2			
F	EQUIPMENT CONTINUOUS. (125%)		0.0			0.0			
-	HEAT (100%)		0.0			0.0			
F	KITCHEN		0.0			0.0			
					I				
	TOTAL KVA		11.5	5		12.4			
	TOTAL AMPS		31.8	}		34.4			

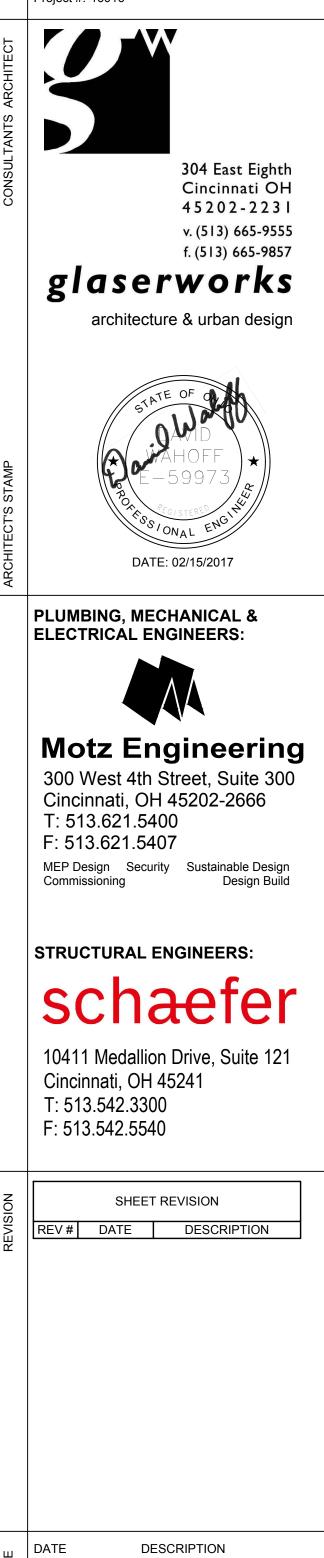
PH, 4V	208/120V, 3P								_: 2SA	ANEL	4W	208/120V, 3PI									_: 2NB	١NE
E: 225	MAIN SIZE					SET	AL CLO	TRICA	TION: 2ND FLOOR SOUTH ELECT	OCAT	25A	MAIN SIZE:					ET	CLOSE	RICAL CLO	IORTH ELECTI	TION: 2ND FLOOR NO	)CA
E: MC	MAIN TYPE								TING: SURFACE MOUNT	IOUNT	СВ	MAIN TYPE:								DUNT	TING: SURFACE MOU	ou
		MAIN	G TO RE	XISTIN	E				S:	OTES				MAIN	TO REM	EXISTING	E				3:	OTE
		S	HRU LUC	EED TI	FE				V CIRCUIT BREAKER	NEW				S	IRU LUG	EED TH	F			र	/ CIRCUIT BREAKER	NE
									CIRCUIT BREAKER	GFI C											CIRCUIT BREAKER	GFI
		 	KVA		/A	KVA				AFCI					KVA		KVA			2	I CIRCUIT BREAKER	AF
:	NTG LTG CORR	20/1	0.42	А	32	0.32	20/1		LTG 229	1	2	EPT 201-207	RECE	20/1	0.54	A	0.54		20/1	-205	RECEPT 207-2	1
	NTG LTG CORR	20/1	0.36	В	43	0.43	20/1		LTG 231	3	4	EPT 201-207	RECE	20/1	0.36	в	0.36	)/1 (	20/1	-205	RECEPT 207-2	3
	RECEPT 231	20/1	0.00	С	44	0.44	20/1		LTG 235	5	6	EPT 201-207	RECE	20/1	0.36	С	0.36	)/1 (	20/1	-205	RECEPT 207-2	5
8	RECEPT 231	20/1	0.36	А	37	0.37	20/1		LTG 233	7	8	EPT 201-207	RECE	20/1	0.72	A	0.72	)/1 (	20/1	-205	RECEPT 207-2	'
1	RECEPT 231	20/1	0.72	В	37	0.37	20/1		LTG 230 - LOUNGE	9	10	EPT 201-207	RECE	20/1	0.36	в	0.36	)/1 (	20/1	-205	RECEPT 207-2	
1	RECEPT 231	20/1	0.18	С	37	0.37	20/1		LTG 227	11	12	EPT 213-208	RECE	20/1	0.90	c	0.90	)/1	20/1	-206	RECEPT 204-2	1
1	RECEPT 231	20/1	0.36	А	37	0.37	20/1		LTG 224	13	14	EPT 213-208	RECE	20/1	0.18	Α	0.18	)/1	20/1	-206	RECEPT 204-2	3
1	RECEPT 231	20/1	0.36	в	37	0.37	20/1		LTG 222-210	15	16	EPT 213-208	RECE	20/1	0.36	в [	0.36	)/1 (	20/1	LF BATH	RECEPT 206 HALF	5
	RECEPT 235	20/1	0.18	С	36	0.36	20/1		LTG 220 - ELEVATOR LOBBY	17	18	EPT 213-208	RECE	20/1	0.54	С	0.54	)/1 (	20/1	LF BATH	RECEPT 206 HALF	7
1	RECEPT 235	20/1	0.18	А	34	0.34	20/1		LTG 221-219	19	20	EPT 213-208	RECE	20/1	0.72	А	0.72	)/1 (	20/1	LF BATH	RECEPT 206 HALF	9
:	RECEPT 235	20/1	0.36	В	36	0.36	20/1		RECEPT 233	21	22	217-209 CHAPEL	RECEPT 2	20/1	0.72	в	0.72	)/1 (	20/1	OUNGE	RECEPT 206 - LO	1
	RECEPT 235	20/1	0.72	С	72	0.72	20/1		RECEPT 233	23	24	217-209 CHAPEL	RECEPT 2	20/1	0.54	c	0.54	)/1 (	20/1	OUNGE	RECEPT 206 - LO	3
	RECEPT 235	20/1	0.18	А	18	0.18	20/1		RECEPT 233	25	26	217-209 CHAPEL	RECEPT 2	20/1	0.54	А	0.54	)/1	20/1	OUNGE	RECEPT 206 - LO	5
	RECEPT 235	20/1	0.36	в	36	0.36	20/1		RECEPT 233	27	28	217-209 CHAPEL	RECEPT 2	20/1	0.36	в	0.36	)/1	20/1	-201	RECEPT 215-2	7
	RECEPT 235	20/1	0.36	С	36	0.36	20/1		RECEPT 233	29	30	217-209 CHAPEL	RECEPT 2	20/1	0.18	c	0.18	)/1	20/1	-201	RECEPT 215-2	9
	FIRE/SMOKE DAMPERS	20/1	0.18	Α	18	0.18	20/1	#	NEW DRINKFOUNT - AFCI	31	32	216, 208 COMM	RECEPT	20/1	0.54	А	0.54	)/1 (	20/1	-201	RECEPT 215-2	1
	SPARE	20/1	0.00	В	00	0.00	20/1		SPARE	33	34	216, 208 COMM	RECEPT	20/1	0.36	в	0.36	)/1 (	20/1		CORR	3
	SPARE	20/1	0.00	С	00	0.00	20/1		SPARE	35	36	SPARE		20/1	0.36	c	0.36	)/1	20/1	MC	ELECT ROOM	5
3	SPACE		0.00	Α	20	0.00			SPACE	37	38	SPARE	5	20/1	0.00	А	0.00	)/1	20/1		SPARE	7
4	SPACE		0.00	в	00	0.00			SPACE	39	40	SPARE	5	20/1	0.00	в	0.00	)/1	20/1		SPARE	э
4	SPACE		0.00	с	00	0.00			SPACE	41	42	SPARE	5	20/1	0.00	c	0.00	)/1 (	20/1		SPARE	1
	•		30.69	33.69	.7 3	28.7		:	AMPS PER PHASE:	•			•		48.00	42.00	54.0			PER PHASE:	AMPS PI	
		VA	MAND K	DEI	VA	ED KVA	NNECTE	CON	LOAD TYPE					/A	1AND KV	DEN	) KVA	CTED	CONNEC	Έ	LOAD TYPE	
			5.6			5	4.5		LIGHT at 125%						0.0			0.0	0.	5%	LIGHT at 125%	Γ
			6.5			5	6.5	G	CPT. (100% 1st 10KVA + 50% REMAINING	REC					13.6			17.3	17	50% REMAINING	CPT. (100% 1st 10KVA + 50	R
			0.0			)	0.0		MOTOR (100% + 25% OF LARGEST)						0.0			0.0	0.	OF LARGEST)	MOTOR (100% + 25% OF	Γ
			0.2			2	0.2		EQUIPMENT NON-CONTINUOUS. (100%)	E					0.0			0.0	0.	IUOUS. (100%)	EQUIPMENT NON-CONTINUE	F
			0.0			)	0.0		EQUIPMENT CONTINUOUS. (125%)						0.0			0.0	0.	DUS. (125%)	EQUIPMENT CONTINUOU	ſ
			0.0			)	0.0		HEAT (100%)						0.0			0.0	0.	6)	HEAT (100%)	
			0.0			)	0.0		KITCHEN						0.0			0.0	0.		KITCHEN	
			12.3			2	11.2		TOTAL KVA						13.6			17.3	17	TOTAL KVA	-	
			34.2			0	31.0	5	TOTAL AMPS						37.9			48.0	48	TOTAL AMPS	тс	

	L: M2 TION: 2ND FLOOR SOUTH ELECT		SET				208/120V, 3 MAIN SI	-
	ITING: SURFACE MOUNT		<b>13EI</b>				MAIN SI	
NOTES				EXISTIN	g to re	MAIN		- L. MO
+ NE\A	V CIRCUIT BREAKER			FEED T	HRU LUC	s		
	CIRCUIT BREAKER							
			KVA		KVA			
1	FAN COIL UNITS	20/1	1.04	A	1.04	20/1	FAN COIL UNITS	2
3	FAN COIL UNITS	20/1	0.52	в	0.52	20/1	FAN COIL UNITS	4
5	FAN COIL UNITS	20/1	0.52	с	0.52	20/1	FAN COIL UNITS	6
7	FAN COIL UNITS	20/1	1.04	A	1.04	20/1	FAN COIL UNITS	8
9	FAN COIL UNITS	20/1	0.86	в	0.86	20/1	FAN COIL UNITS	1
11	FAN COIL UNITS	20/1	1.04	C C	1.04	20/1	FAN COIL UNITS	1
13	FAN COIL UNITS	20/1	1.04	A	0.00	20/1	SPARE	1.
15	SPARE	20/1	0.00	в	0.00	20/1	SPARE	1
17	SPARE	20/1	0.00	С	0.00	20/1	SPARE	1
19	SPARE	20/1	0.00	A	0.00	20/1	SPARE	2
21	SPACE		0.00	В	0.00		SPACE	2
23	SPACE		0.00	С	0.00		SPACE	2
25	SPACE		0.00	A	0.00		SPACE	2
27	SPACE		0.00	в	0.00		SPACE	2
29	SPACE		0.00	c	0.00		SPACE	3
31	SPACE		0.00	A	0.00		SPACE	3
33	SPACE		0.00	В	0.00		SPACE	3
35	SPACE		0.00	c	0.00		SPACE	3
37	SPACE		0.00	A	0.00		SPACE	3
39	SPACE		0.00	В	0.00		SPACE	4
41	SPACE		0.00	c	0.00		SPACE	4
	AMPS PER PHASE:		43.1	23.00	25.88			
	LOAD TYPE	CONNECT	ED KVA	DE	MAND K	VA		
	LIGHT at 125%	0.0	)		0.0			
RE	CPT. (100% 1st 10KVA + 50% REMAINING	0.0	)		0.0			
	MOTOR (100% + 25% OF LARGEST)	11.	0		11.0			
	EQUIPMENT NON-CONTINUOUS. (100%)	0.0	)		0.0			
	EQUIPMENT CONTINUOUS. (125%)	0.0			0.0			
	HEAT (100%)	0.0			0.0			
	KITCHEN	0.0	)		0.0			
	TOTAL KVA	11.	0		11.0			
	TOTAL AMPS	30.	7		30.7			

	ATION: 2ND FLO
	JNTING: SURFAC
NOT	
	I CIRCUIT BREAM
	CI CIRCUIT BRE
1	RECEPT 23
3	RECEPT 23
5	RECEPT 23
7	RECEPT 230 RM
9	RECE
11	RECE
13	RECE
15	RECE
17	RECE
19	RECE
21	RECE
23	RECE
25	RECE
27	RECE
29	RECE
31	RECE
33	C
35	SP
37	ROOM 220 ELE
39	ROOM 220 ELE
41	ROOM 220 ELE
	AI
	LOAD
	LIGHT
1	LRECPT. (100% 1st 10)
	MOTOR (100% +
	EQUIPMENT NON-C
	EQUIPMENT CON
	HEAT
	KIT

OOR SOUTH ELECT			eet					208/120V, 3 MAIN SIZ	
ACE MOUNT	RICF		361					MAIN 312 MAIN TYF	
				EXISTIN	G TO RE	MAIN		MAINTI	L. MOB
				FEED TI					
REAKER AKER									
			KVA		KVA				
230 - LOUNGE		20/1	0.36	А	0.36	20/1		RECEPT 224	2
230 - LOUNGE		20/1	0.72	В	0.72	20/1		RECEPT 224	4
230 - LOUNGE		20/1	0.12	c	0.12	20/1		RECEPT 224	6
RM 215, HALL GFCI	_	20/1	0.36	A	0.36	20/1		RECEPT 224	8
CEPT 230	_	20/1	0.36	В	0.36	20/1		RECEPT 224	10
CEPT 230	_	20/1	0.30	C D	0.30	20/1		RECEPT 224	12
CEPT 227	_	20/1	0.12	A	0.72	20/1		RECEPT 224	14
CEPT 227 CEPT 227	_	20/1	0.18	В	0.30	20/1		RECEIP 218	14
CEPT 227 CEPT 216	_	20/1	0.36	ь С	0.72	20/1		RECEIT 218	18
CEPT 218 CEPT 227	_								20
	_	20/1	0.72	A	0.36	20/1		RECEPT 224	
CEPT 229	_	20/1	0.18	В	0.36	20/1		RECEPT 221-219	22
CEPT 229		20/1	0.36	C A	0.72	20/1		RECEPT 221-219	24
CEPT 229		20/1	0.36	A	0.36	20/1		RECEPT 221-219	26
CEPT 223		20/1	0.72	В	0.36	20/1		RECEPT 221-219	28
CEPT 223		20/1	0.18	C	0.36	20/1		RECEPT 221-219	30
CEPT 223		20/1	0.36	A	0.00	20/1		SPARE	32
CORR		20/1	0.54	В	1.00	20/1		REF KITCHEN 219	34
SPARE		20/1	0.00	C	0.54	20/1		KITCHEN 219	36
LEVATOR LOBBY		20/1	0.18	А	0.54	20/1		KITCHEN 219	38
LEVATOR LOBBY		20/1	0.18	В	2.29	50/2		OVEN	40
LEVATOR LOBBY		20/1	0.18	С	2.29				42
AMPS PER PHASE:			40.5	73.90	58.07				
AD TYPE	COI		ED KVA	DEI	MAND K	VA	1		
HT at 125%		0.0			0.0				
10KVA + 50% REMAINING		15.1			12.6				
+ 25% OF LARGEST)		0.0			0.0				
V-CONTINUOUS. (100%)		0.0			0.0				
ONTINUOUS. (125%)		0.0			0.0				
AT (100%)		0.0			0.0				
KITCHEN		5.6			5.6				
-									
TOTAL KVA		20.7			18.1				
TOTAL AMPS		57.5	5		50.4				

# Xavier University Buenger Hall Renovation



ഗ് 02/16/2017

BIDDING AND PERMIT

NOTES

#### PANEL SCHEDULES SECOND FLOOR

PAN	EL SCHED	DULE LEGE	END
2NA	2NB	2SA	2SB
M2			
		PRINT DATE: 2/15/	/2017 7:55:19 PM

**E512** 

	TION: 3RD FLOOR NORTH ELECT		SET				208/120V, 3F MAIN SIZE	-
	TING: SURFACE MOUNT		JL1					
NOTES				EXISTIN	g to re	MAIN		
+ NFW	I CIRCUIT BREAKER			FEED T	HRU LUC	s		
	CIRCUIT BREAKER							
	I CIRCUIT BREAKER		KVA		KVA			
1	LTG 306-LOUNGE	20/1	0.38	A	0.36	20/1	NTG LTG	2
3	LTG 309-302	20/1	1.05	в	0.00	20/1	SPARE	4
5	LTG 312-303	20/1	1.26	c c	0.72	20/1	RECEPT 309-302	6
7	LTG 310-304	20/1	0.34	A	0.18	20/1	RECEPT 309-302	8
9	LTG 307-305	20/1	0.34	в	0.36	20/1	RECEPT 309-302	10
11	LTG 304-306	20/1	0.81	l c	0.18	20/1	RECEPT 309-302	12
13	LTG 301-307	20/1	0.37	A	0.54	20/1	RECEPT 309-302	14
15	LTG 313-308	20/1	0.39	в	0.18	20/1	RECEPT 309-302	10
17	LTG 317-300	20/1	0.34	l c	0.36	20/1	RECEPT 312-303	1
19	SPARE	20/1	0.00	A	0.18	20/1	RECEPT 312-303	2
21	RECEPT 310-304	20/1	0.72	в	0.54	20/1	RECEPT 312-303	2
23	RECEPT 310-304	20/1	0.18	l c	0.18	20/1	RECEPT 312-303	2
25	RECEPT 310-304	20/1	0.36	A	0.36	20/1	RECEPT 312-303	20
27	RECEPT 310-304	20/1	0.18	в	0.18	20/1	RECEPT 312-303	2
29	RECEPT 310-304	20/1	0.36	C C	0.54	20/1	RECEPT 312-303	3
31	SPARE	20/1	0.00	A	0.06	20/1	FIRE/SMOKE DAMPERS	3
33	SPARE	20/1	0.00	в	0.36	20/1	COM BOARD	3
35	SPARE	20/1	0.00	l c	0.50	20/1	COM BOARD	3
37	SPACE		0.00	A	0.00		SPACE	3
39	SPACE		0.00	в	0.00		SPACE	4
41	SPACE		0.00	c	0.00		SPACE	4
	AMPS PER PHASE:	•	26.0	35.82	45.25			
	LOAD TYPE	CONNECT	ED KVA	DE	MAND K	VA		
	LIGHT at 125%	5.6	i		7.0			
REC	CPT. (100% 1st 10KVA + 50% REMAINING	7.2	:		7.2			
	MOTOR (100% + 25% OF LARGEST)	0.0	)		0.0			
E	EQUIPMENT NON-CONTINUOUS. (100%)	0.1			0.1			
	EQUIPMENT CONTINUOUS. (125%)	0.0	1		0.0			
	HEAT (100%)	0.0			0.0			
	KITCHEN	0.0	)		0.0			
	TOTAL KVA	12.9	9		14.3			
	TOTAL AMPS	35.	7		39.6			

AN	EL: 3NB						208/120V, 3PH, 4V
	ATION: 3RD FLOOR NORTH ELECTR		SET				MAIN SIZE: 225/
	INTING: SURFACE MOUNT						MAIN TYPE: MCI
NOT	ES:			EXISTIN	G TO RE	MAIN	
+ NE	W CIRCUIT BREAKER			FEED T	HRU LUC	GS	
# GF	I CIRCUIT BREAKER						
	CI CIRCUIT BREAKER		KVA		KVA		
1	RECEPT 307-305	20/1	0.72	A	0.72	20/1	RECEPT 301-307 2
3	RECEPT 307-305	20/1	0.18	в	0.18	20/1	RECEPT 301-307 4
5	RECEPT 307-305	20/1	0.36	l c	0.36	20/1	RECEPT 301-307 6
7	RECEPT 307-305	20/1	0.18	A	0.18	20/1	RECEPT 301-307 8
9	RECEPT 307-305	20/1	0.36	в	0.36	20/1	RECEPT 301-307 10
11	RECEPT 307-305	20/1	0.36	l c	0.72	20/1	RECEPT 313-308 12
13	FAN COIL UNITS	20/1	0.36	A	0.18	20/1	RECEPT 313-308 14
15	RECEPT 304-306	20/1	0.72	в	0.36	20/1	RECEPT 313-308 16
17	RECEPT 304-306	20/1	0.18	l c	0.18	20/1	RECEPT 313-308 18
19	RECEPT 304-306	20/1	0.36	A	0.36	20/1	RECEPT 313-308 20
21	RECEPT 306-LOUNGE	20/1	0.72	в	0.72	20/1	RECEPT 317-300 22
23	RECEPT 306-LOUNGE	20/1	0.72	l c	0.18	20/1	RECEPT 317-300 24
25	RECEPT 306-LOUNGE	20/1	0.18	A	0.36	20/1	RECEPT 317-300 26
27	RECEPT 315-301	20/1	0.36	в	0.18	20/1	RECEPT 317-300 28
29	RECEPT 315-301	20/1	0.18	l c	0.36	20/1	RECEPT 317-300 30
31	RECEPT 315-301	20/1	0.36	A	0.36	20/1	RECEPT 316-308 COMM 32
33	CORR	20/1	0.36	в	0.36	20/1	RECEPT 316-308 COMM 34
35	ELECT ROOM	20/1	0.36	l c	0.00	20/1	SPARE 36
37	SPARE	20/1	0.00	A	0.00	20/1	SPARE 38
39	SPARE	20/1	0.00	в	0.00	20/1	SPARE 40
41	SPARE	20/1	0.00	c	0.00	20/1	SPARE 42
	AMPS PER PHASE:		36.0	40.50	33.00		· · ·
	LOAD TYPE	CONNECT	ED KVA	DE	MAND K	VA	
	LIGHT at 125%	0.0	)		0.0		
F	RECPT. (100% 1st 10KVA + 50% REMAINING	13.	1		11.6		
	MOTOR (100% + 25% OF LARGEST)	0.0	)		0.0		
	EQUIPMENT NON-CONTINUOUS. (100%)	0.0	)		0.0		
	EQUIPMENT CONTINUOUS. (125%)	0.0	)		0.0		
	HEAT (100%)	0.0	)		0.0		
	KITCHEN	0.0	)		0.0		
	TOTAL KVA	13.	1		11.6		1
	TOTAL AMPS	36.			32.1		

PANE	L: M3						208/120V, 3P	
LOCA	TION: 3RD FLOOR SOUTH ELECT	RICAL CLC	DSET				MAIN SIZE	:: 225
	ITING: SURFACE MOUNT						MAIN TYPE	:: MC
NOTE	S:			EXISTIN	g to re	MAIN		
+ NEV	V CIRCUIT BREAKER			FEED T	HRU LUC	GS		
# GFI	CIRCUIT BREAKER							
"* AFC	CI CIRCUIT BREAKER		KVA		KVA			
1	FAN COIL UNITS	20/1	1.04	A	1.04	20/1	FAN COIL UNITS	1
3	FAN COIL UNITS	20/1	0.52	В	0.52	20/1	FAN COIL UNITS	4
5	FAN COIL UNITS	20/1	0.52	С	0.52	20/1	FAN COIL UNITS	(
7	FAN COIL UNITS	20/1	1.04	А	1.04	20/1	FAN COIL UNITS	1
9	FAN COIL UNITS	20/1	0.86	В	0.86	20/1	FAN COIL UNITS	1
11	FAN COIL UNITS	20/1	1.04	С	1.04	20/1	FAN COIL UNITS	1
13	FAN COIL UNITS	20/1	1.04	A	0.00	20/1	SPARE	1
15	SPARE	20/1	0.00	В	0.00	20/1	SPARE	1
17	SPARE	20/1	0.00	c	0.00	20/1	SPARE	1
19	SPARE	20/1	0.00	Α	0.00	20/1	SPARE	2
21	SPACE		0.00	В	0.00		SPACE	2
23	SPACE		0.00	c	0.00		SPACE	2
25	SPACE		0.00	A	0.00		SPACE	2
27	SPACE		0.00	В	0.00		SPACE	2
29	SPACE		0.00	c	0.00		SPACE	3
31	SPACE		0.00	A	0.00		SPACE	3
33	SPACE		0.00	В	0.00		SPACE	3
35	SPACE		0.00	С	0.00		SPACE	3
37	SPACE		0.00	А	0.00		SPACE	3
39	SPACE		0.00	в	0.00		SPACE	4
41	SPACE		0.00	c	0.00		SPACE	4
	AMPS PER PHASE:		43.1	23.00	25.88		•	_
	LOAD TYPE	CONNECT	ED KVA	DE	MAND K	VA		
	LIGHT at 125%	0.0	)		0.0			
RE	CPT. (100% 1st 10KVA + 50% REMAINING	0.0	)		0.0			
Γ	MOTOR (100% + 25% OF LARGEST)	11.	0		11.0			
	EQUIPMENT NON-CONTINUOUS. (100%)	0.0	)		0.0			
	EQUIPMENT CONTINUOUS. (125%)	0.0	)		0.0			
	HEAT (100%)	0.0	)		0.0			
	KITCHEN	0.0	)		0.0			
	TOTAL 10 1A	11.	0		11.0			
	TOTAL KVA TOTAL AMPS	30.			30.7	———		

	IEL: 3SA							208/120V, 3F	,
	ATION: 3RD FLOOR SOUTH ELECT	RIC	AL CLO	SET				MAIN SIZE	
								MAIN TYPI	E: MCB
NOT	ES:				EXISTIN				
	EW CIRCUIT BREAKER				FEED T	HRU LUC	SS		
	I CIRCUIT BREAKER								
						KVA		 	
1	LTG 329 LOUNGE		20/1	0.32	A	0.42	20/1	NTG/LTG CORR	2
3	LTG 331		20/1	0.43	В	0.34	20/1	NTG/LTG CORR	4
5	LTG 336		20/1	0.44	С	0.36	20/1	RECEPT	6
7	LTG 33-314		20/1	0.37	А	0.72	20/1	RECEPT	8
9	LTG 330-315		20/1	0.37	В	0.18	20/1	RECEPT	10
11	LTG 327-316		20/1	0.37	С	0.36	20/1	RECEPT	12
13	LTG 324		20/1	0.37	A	0.36	20/1	RECEPT	14
15	LTG 322		20/1	0.37	В	0.72	20/1	RECEPT	16
17	LTG 320-319		20/1	0.36	С	0.18	20/1	RECEPT	18
19	LTG 321-310		20/1	0.34	А	0.36	20/1	RECEPT	20
21	RECEPT		20/1	0.00	В	0.36	20/1	RECEPT	22
23	RECEPT		20/1	0.00	С	0.72	20/1	RECEPT	24
25	RECEPT		20/1	0.00	А	0.18	20/1	RECEPT	26
27	RECEPT		20/1	0.00	В	0.36	20/1	RECEPT	28
29	RECEPT		20/1	0.36	С	0.36	20/1	RECEPT	30
31	NEW DRINK FOUNT - AFCI	#	20/1	0.18	А	0.06	20/1	FIRE/SMOKE DAMPERS	32
33	COM BOARD		20/1	0.36	В	0.00	20/1	SPARE	34
35	COM BOARD		20/1	0.36	С	0.00	20/1	SPARE	36
37	SPACE			0.00	А	0.00		SPACE	38
39	SPACE			0.00	В	0.00		SPACE	40
41	SPACE			0.00	С	0.00		SPACE	42
	AMPS PER PHASE:			30.7	29.07	32.19			
	LOAD TYPE	со	NNECTI	ED KVA	DE	MAND K	VA		
	LIGHT at 125%		4.5			5.6			
I	RECPT. (100% 1st 10KVA + 50% REMAINING		6.5			6.5			
	MOTOR (100% + 25% OF LARGEST)		0.0	I		0.0			
	EQUIPMENT NON-CONTINUOUS. (100%)		0.1			0.1			
	EQUIPMENT CONTINUOUS. (125%)		0.0			0.0			
	HEAT (100%)		0.0			0.0			
	KITCHEN		0.0			0.0			
	TOTAL KVA	/A 11.0 12.2							
	TOTAL AMPS		30.7	7		33.8			

	EL: 3SB ATION: 3RD FLOOR S
моі	JNTING: SURFACE MC
NOT	ES:
+ NE	W CIRCUIT BREAKEF
# GF	I CIRCUIT BREAKER
"* AF	CI CIRCUIT BREAKEF
1	RECEPT
3	RECEPT
5	RECEPT
7	RECEPT
9	RECEPT
11	RECEPT
13	RECEPT
15	RECEPT
17	RECEPT
19	RECEPT
21	RECEPT
23	RECEPT
25	RECEPT
27	RECEPT
29	RECEPT
31	RECEPT
33	CORR
35	ELEC ROC
37	SPARE
39	SPARE
41	SPARE
	AMPS
	LOAD TYF
	LIGHT at 125
i	RECPT. (100% 1st 10KVA +
	MOTOR (100% + 25% C
	EQUIPMENT NON-CONTIN
	EQUIPMENT CONTINUC
	HEAT (1009
	KITCHEN

LOOR SOUTH ELECT	RICAL CLO							
ACE MOUNT		SEI					MAIN SIZ	ZE: 225A
							MAIN TYP	PE: MCB
			EXISTIN					
REAKER			FEED T	HRU LUC	GS			
AKER								
REAKER		KVA		KVA				
RECEPT	20/1	0.36	А	0.18	20/1		RECEPT 324-317	2
RECEPT	20/1	0.72	В	0.36	20/1		RECEPT 324-317	4
RECEPT	20/1	0.18	с	0.36	20/1		RECEPT 324-317	6
RECEPT	20/1	0.36	А	0.36	20/1		RECEPT 324-317	8
RECEPT	20/1	0.36	в	0.72	20/1		RECEPT 324-317	10
RECEPT	20/1	0.36	С	0.18	20/1		RECEPT 324-317	12
RECEPT	20/1	0.72	А	0.36	20/1		RECEPT 324-317	14
RECEPT	20/1	0.18	в	0.18	20/1		RECEPT 324-317	16
RECEPT	20/1	0.36	с	0.36	20/1		RECEPT 324-317	18
RECEPT	20/1	0.36	А	0.36	20/1		RECEPT 321-310	20
RECEPT	20/1	0.54	в	0.36	20/1		RECEPT 321-310	22
RECEPT	20/1	0.36	с	0.72	20/1		RECEPT 321-310	24
RECEPT	20/1	0.36	А	0.18	20/1		RECEPT 321-310	26
RECEPT	20/1	0.36	в	0.18	20/1		RECEPT 321-310	28
RECEPT	20/1	0.36	с	0.36	20/1		RECEPT 321-310	30
RECEPT	20/1	0.36	А	0.36	20/1		RECEPT 320-319	32
CORR	20/1	0.36	в	0.36	20/1		RECEPT 320-319	34
EC ROOM	20/1	0.72	с	0.72	20/1		RECEPT 320-319	36
SPARE	20/1	0.00	А	0.18	20/1		RECEPT 320-319	38
SPARE	20/1	0.00	в	0.36	20/1		RECEPT 320-319	40
SPARE	20/1	0.00	с	0.00	20/1		SPARE	42
AMPS PER PHASE:	•	37.5	42.00	42.00				
AD TYPE	CONNECT	ED KVA	DE	MAND K	VA			
HT at 125%	0.0			0.0		]		
10KVA + 50% REMAINING	14.6	6		12.3		1		
6 + 25% OF LARGEST)	0.0			0.0		1		
N-CONTINUOUS. (100%)	0.0			0.0		1		
CONTINUOUS. (125%)	0.0			0.0		1		
AT (100%)	0.0			0.0		1		
KITCHEN	0.0			0.0		]		
TOTAL KVA	14.6	3		12.3		1		
TOTAL AMPS	40.5			34.1		1		

# Xavier University Buenger Hall Renovation



PANEL SCHEDULE LEGEND									
ЗNA	3NB	3SA	3SB						
М3									
		PRINT DATE: 2/15/	/2017 7:55:36 PM						

	EL: 4SA								208/120V, 3PH	
LOC	ATION: 4TH FLOOR								MAIN SIZE: 2	
	INTING: FLUSH MOUNT								MAIN TYPE:	ML
NOT	ES:				EXISTIN					
+ NE	W CIRCUIT BREAKER				FEED T	HRU LUC	SS			
# GF	I CIRCUIT BREAKER									
"* AF	CI CIRCUIT BREAKER			KVA		KVA				
1	RECEPT 402-407		20/1	0.36	A	0.36	20/1		RECEPT 416-403	2
3	RECEPT 402-407		20/1	0.18	В	0.18	20/1		RECEPT 416	4
5	RECEPT 402-407		20/1	0.36	С	0.18	20/1		RECEPT 416-403 COMMON AREA	е
7	RECEPT 402-407		20/1	0.18	A	0.36	20/1		RECEPT 416-403 COMMON AREA	8
9	RECEPT 402-407		20/1	0.18	В	0.18	20/1		RECEPT 416-403 COMMON AREA	1
11	RECEPT 404-408		20/1	0.36	c	0.36	20/1		RECEPT 412-404	1
13	RECEPT 404-408		20/1	0.36	Α	0.18	20/1		RECEPT 412-404	1
15	RECEPT 404-408		20/1	0.18	в	0.18	20/1	F	RECEPT 404, GFCI & COMMON ARE	1
17	RECEPT 404-408		20/1	0.36	С	0.36	20/1		RECEPT 404 BEDROOM D	1
19	RECEPT 404-408		20/1	0.18	Α	0.36	20/1		RECEPT 404 BEDROOM C	2
21	RECEPT 413-402		20/1	0.18	в	0.18	20/1		RECEPT 404 BEDROOM B	2
23	RECEPT 413-402		20/1	0.36	с	0.18	20/1		RECEPT 404 BEDROOM A	2
25	RECEPT 413-402		20/1	0.54	А	0.36	20/1		RECEPT 410-405	2
27	RECEPT 413-402		20/1	0.18	в	0.36	20/1		RECEPT 410-405	2
29	RECEPT 413-402		20/1	0.36	с	0.18	20/1		RECEPT 410-405	3
31	RECEPT ROOF		20/1	0.36	A	0.18	20/1		RECEPT 410-405	3
33	RECEPT ROOF		20/1	0.36	в	0.36	20/1		RECEPT 410-405	3
35	NEW DRINK FOUNT AFCI	#	20/1	0.18	с	0.18	20/1		RECEPT 410-405	3
37	ROOF TOP LIGHT FIXTURES		20/1	0.02	A	0.54	20/1		RECEPT 410-405	3
39	SPARE		20/1	0.00	в	0.00	20/1		SPARE	4
41	SPARE		20/1	0.00	с	0.00	20/1		SPARE	4
	AMPS PER PHASE:			36.2	22.50	28.50				
	LOAD TYPE	со	NNECT	ED KVA	DE		VA			_
	LIGHT at 125%		0.0			0.0				
F	RECPT. (100% 1st 10KVA + 50% REMAINING		10.4	ŀ		10.2				
	MOTOR (100% + 25% OF LARGEST)		0.0			0.0				
	EQUIPMENT NON-CONTINUOUS. (100%)		0.0			0.0				
	EQUIPMENT CONTINUOUS. (125%)		0.0			0.0				
	HEAT (100%)		0.0			0.0				
	KITCHEN		0.0			0.0				
·			10.5			10.2		I		
	TOTAL KVA TOTAL AMPS		29.1			28.5				

ΡΔΝ	EL: 4SB								208/120V, 3PH	. 4W
	ATION: 4TH FLOOR								MAIN SIZE:	·
	INTING: FLUSH MOUNT								MAIN TYPE:	
NOT	ES:				EXISTIN	G TO RE	MAIN			
+ NE	W CIRCUIT BREAKER				FEED T	HRU LUC	GS			
"* AF	CI CIRCUIT BREAKER			KVA		KVA				
1	LIGHTING 402-407		20/1	0.81	А	0.28	20/1		ORRIDOR LIGHTING, KEY SWITCH	2
3	LIGHTING 406-406		20/1	0.47	В	0.39	20/1		ORRIDOR LIGHTING, KEY SWITCH	4
5	LIGHTING 410-405		20/1	0.47	С	0.18	20/1		RECEPT 406	6
7	LIGHTING 404		20/1	0.47	А	0.36	20/1		RECEPT 406	8
9	LIGHTING 416-403		20/1	0.81	В	0.18	20/1		RECEPT 406	10
11	LIGHTING 413-402		20/1	0.81	С	0.18	20/1		RECEPT 406	12
13	LIGHTING 404-408		20/1	0.39	А	0.36	20/1		RECEPT 406	14
15	LIGHTING ROOFTOP		20/1	0.10	В	0.18	20/1		RECEPT 406	16
17	LIGHTING 407-408, COMMON		20/1	0.51	С	0.36	20/1		RECEPT 406	18
19	RECEPT 407-408, COMMON		20/1	0.18	А	0.72	20/1		RECEPT 411-401	20
21	RECEPT 407-408, COMMON		20/1	0.36	В	0.18	20/1		RECEPT 411-401	22
23	RECEPT 407-408, COMMON		20/1	0.18	С	0.36	20/1		RECEPT 411-401	24
25	RECEPT 409 KITCHENETTE		20/1	0.36	А	0.06	20/1		FIRE/SMOKE DAMPERS	26
27	RECEPT 409 KITCHENETTE		20/1	0.72	В	0.00	20/1		SPARE	28
29	RECEPT 409 KITCHENETTE		20/1	0.18	С	0.00	20/1		SPARE	30
31	RECEPT CORRIDOR		20/1	0.36	А	0.00	20/1		SPACE	32
33	RECEPT CORRIDOR		20/1	0.54	В	0.00	20/1		SPARE	34
35	SPARE		20/1	0.00	С	0.00	20/1		SPARE	36
37	SPARE		20/1	0.00	А	0.00	20/1		SPARE	38
39	SPARE		20/1	0.00	В	0.00	20/1		SPARE	40
41	SPARE		20/1	0.00	С	0.00	20/1		SPARE	42
	AMPS PER PHASE:			36.2	32.68	26.90				
	LOAD TYPE	co	NNECT	ED KVA	DEI	MAND K	VA	-		
	LIGHT at 125%		5.5			6.9				
F	RECPT. (100% 1st 10KVA + 50% REMAINING		5.9			5.9				
	MOTOR (100% + 25% OF LARGEST)		0.0			0.0				
	EQUIPMENT NON-CONTINUOUS. (100%) 0.1				0.1					
	EQUIPMENT CONTINUOUS. (125%) 0.0				0.0					
	HEAT (100%)		0.0			0.0				
	KITCHEN		0.0			0.0				
								1		
	TOTAL KVA		11.5			12.9				
	TOTAL AMPS		31.9	,		35.7				

PAN	EL: M4							208/120V, 3	PH, 4W
LOC	ATION: 4TH FLOOR HALLWAY							MAIN SIZ	E: 225A
моц	JNTING: FLUSH MOUNT							MAIN TYP	E: MCB
NOT	ES:			EXISTING TO REMAIN					
+ NE	EW CIRCUIT BREAKER	FEED T	HRU LUC	GS					
# GF	I CIRCUIT BREAKER								
"* AF	FCI CIRCUIT BREAKER		KVA		KVA				
1	FAN COIL UNITS	20/1	0.52	А	0.52	20/1		FAN COIL UNITS	2
3	FAN COIL UNITS	20/1	0.69	в	1.04	20/1		FAN COIL UNITS	4
5	FAN COIL UNITS	20/1	0.52	С	0.86	20/1		FAN COIL UNITS	6
7	FAN COIL UNITS	20/1	0.86	А	0.86	20/1		FAN COIL UNITS	8
9	SPARE	20/1	0.00	в	0.00	20/1		SPARE	10
11	SPARE	20/1	0.00	с	0.00	20/1		SPARE	12
13	SPARE	20/1	0.00	А	0.00	20/1		SPARE	14
15	SPARE	20/1	0.00	в	0.00	20/1		SPARE	16
17	SPARE	20/1	0.00	с –	0.00			SPACE	18
19	SPARE	20/1	0.00	A	0.00			SPACE	20
21		50/0	2.29	в	0.00			SPACE	22
23	KITCHENETTE STOVE	50/2	2.29	c	0.00			SPACE	24
25	SPACE		0.00	A	0.00			SPACE	26
27	SPACE		0.00	в	0.00			SPACE	28
29	SPACE		0.00	c	0.00			SPACE	30
31	SPACE		0.00	A	0.00			SPACE	32
33	SPACE		0.00	в	0.00			SPACE	34
35	SPACE		0.00	C C	0.00			SPACE	36
37	SPACE		0.00	А	0.00			SPACE	38
39	SPACE		0.00	в	0.00			SPACE	40
41	SPACE		0.00	<b>с</b>	0.00			SPACE	42
	AMPS PER PHASE:		23.0	33.44	30.57				
	LOAD TYPE	CONNECT	ED KVA	DE	MAND K	VA			
	LIGHT at 125%	0.0	)		0.0				
F	RECPT. (100% 1st 10KVA + 50% REMAINING	0.0	)		0.0				
	MOTOR (100% + 25% OF LARGEST)	5.9	)		5.9				
	EQUIPMENT NON-CONTINUOUS. (100%)	0.0	)		0.0				
	EQUIPMENT CONTINUOUS. (125%)	0.0	)		0.0				
	HEAT (100%)	0.0	)		0.0				
	KITCHEN	4.6	;		4.6				
		10.4	1		10.4				
	TOTAL KVA	29.0			29.0				
	TOTAL AMPS	29.			29.0				

	_	
		Xavier University Buenger Hall Renovation
		3848 Ledgewood Drive Cincinnati, Ohio 45207 Project #: 16016
	CONSULTANTS ARCHITECT	304 East Eighth Cincinnati OH 45202-2231 v. (513) 665-9857 c (513) 665-9857 glaserworks architecture & urban design
	ARCHITECT'S STAMP	E-59973 ATE OF AHOFF E-59973 A NAL ENGINE DATE: 02/15/2017
		PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS:
		Motz Engineering 300 West 4th Street, Suite 300 Cincinnati, OH 45202-2666 T: 513.621.5400 F: 513.621.5407 MEP Design Security Sustainable Design Commissioning Design Build
		STRUCTURAL ENGINEERS: Schaefer 10411 Medallion Drive, Suite 121 Cincinnati, OH 45241 T: 513.542.3300 F: 513.542.5540
	REVISION	SHEET REVISION       REV #     DATE     DESCRIPTION
	ISSUE	DATE     DESCRIPTION       02/16/2017     BIDDING AND PERMIT
	NOTES	
ID 	DWG TITLE	PANEL SCHEDULES FOURTH FLOOR
	SHEET NO.	E514
 7 7:58:16 PM	SHE	LJ14

PANEL SCHEDULE LEGEND									
4SA	4SB	M4							
		PRINT DATE: 2/15/	2017 7:58:16 PM						