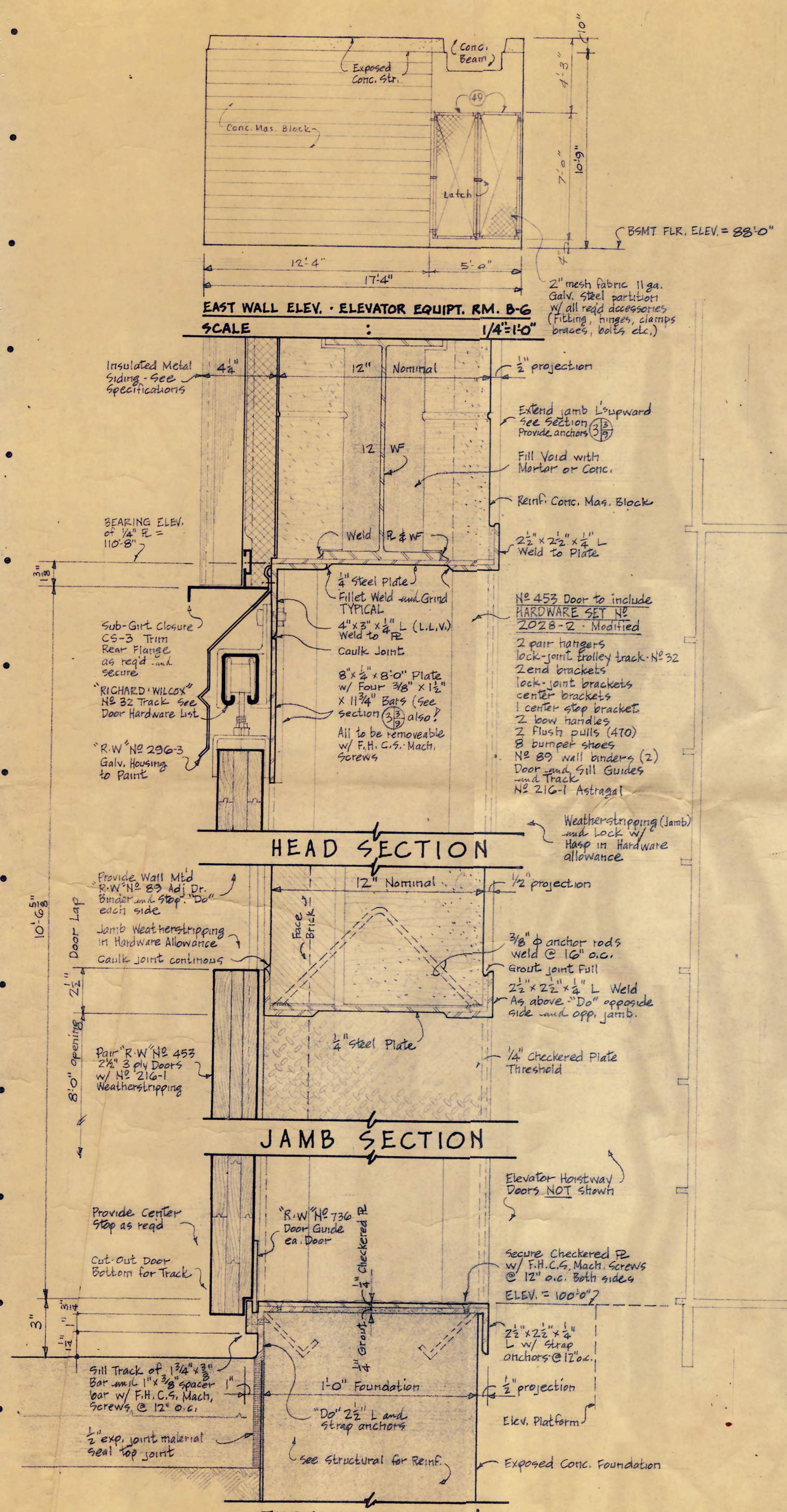


SHEET No and DESCRIPTION

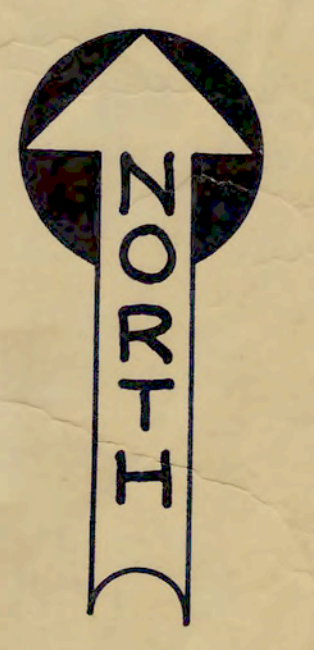
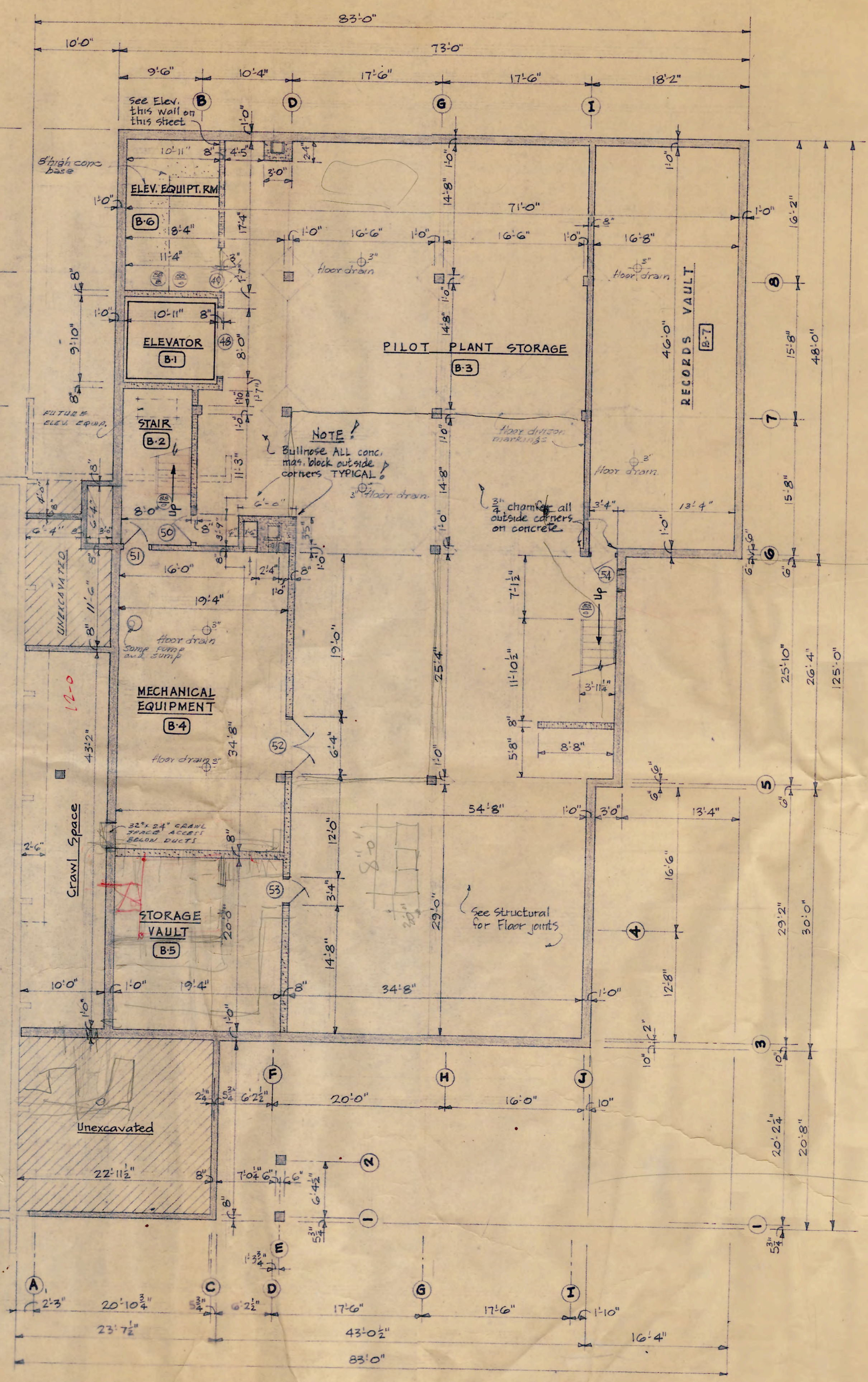
- 5-1 BASEMENT and FOUNDATION PLAN and DETAILS
5-2 FIRST FLOOR FRAMING PLAN and DETAILS
5-3 MEZZANINE and ROOF FRAMING PLAN and DTLS.
E-1 BASEMENT PLAN and SCHEDULES
E-2 FIRST FLOOR and MEZZANINE

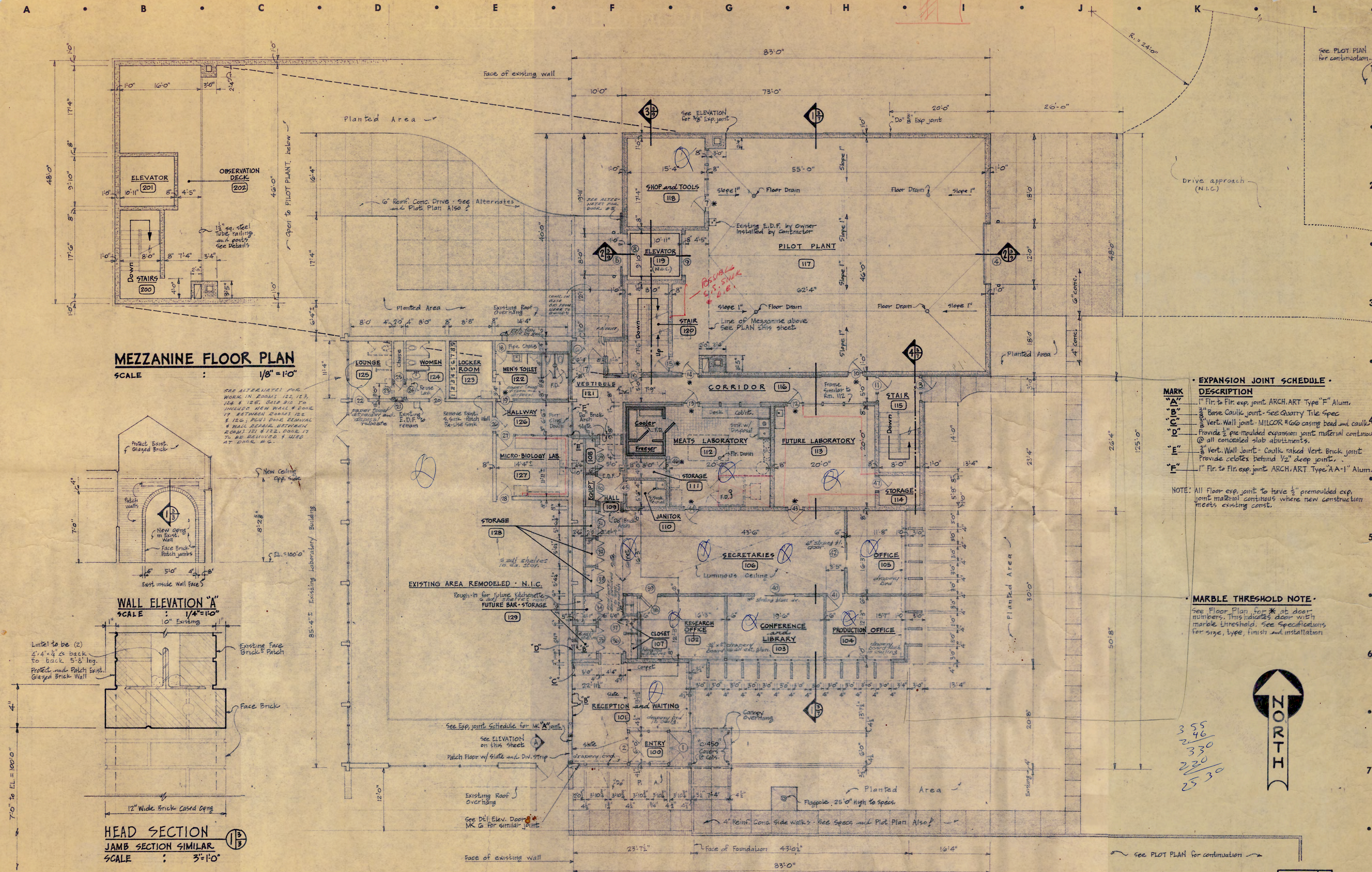
M-1 BASEMENT PLAN and DETAILS
M-2 FIRST FLOOR and MEZZANINE
M-3 DETAILS and SCHEDULES





EXISTING BUILDING

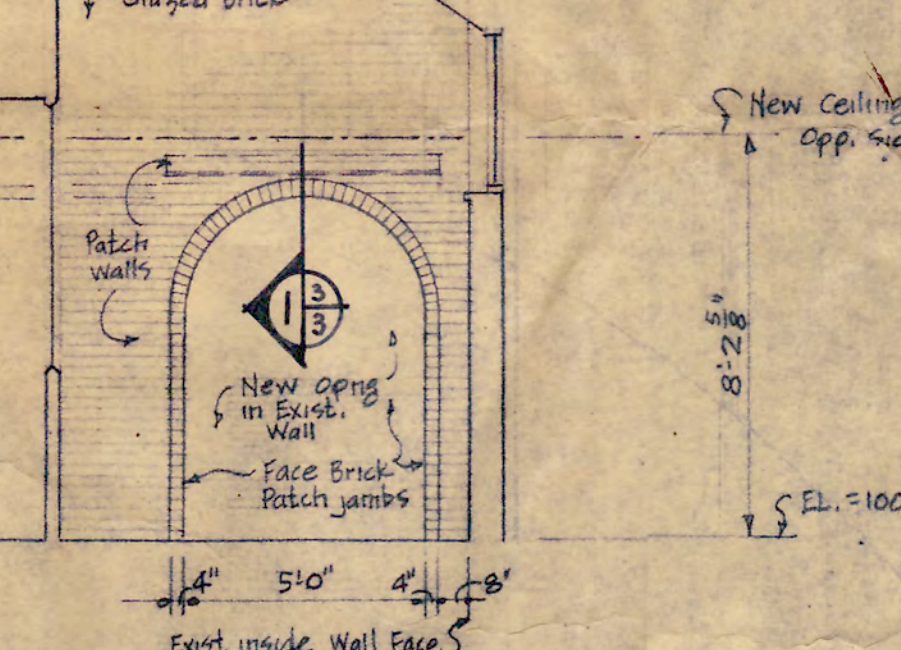




MEZZANINE FLOOR PLAN

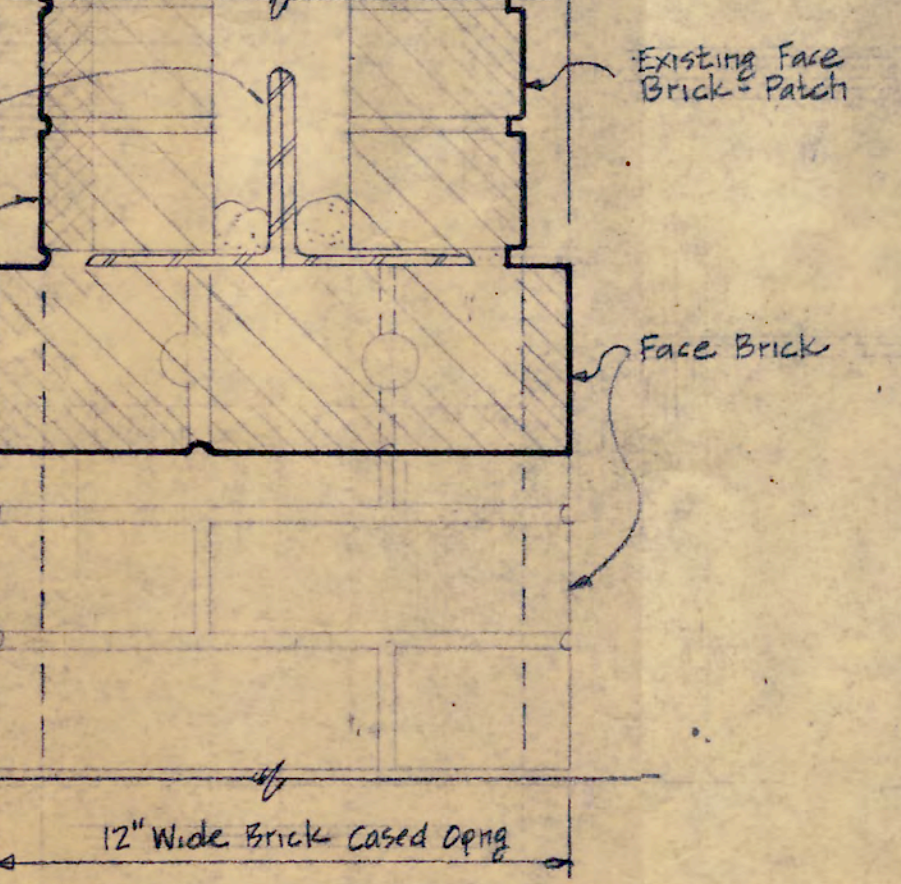
SCALE : 1/8" = 1'-0"

SEE ALTERNATES FOR WORK IN ROOMS 122, 123, 124 & 125. SILE B10 TO INCLUDE NEW WALL & DOOR 19 BETWEEN ROOMS 122 & 123. REPAIR DOOR 20 & WALL REPAIR BETWEEN ROOMS 121 & 122. DOOR 17 TO BE REMOVED & USED AT DOOR 18.



WALL ELEVATION "A"

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



HEAD SECTION

JAMB SECTION SIMILAR

SCALE : 3/8" = 1'-0"

FIRST FLOOR PLAN

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

MARK	DESCRIPTION
"A"	1" Flr. to Flr. exp. joint ARCH. ART. Type "F" Alum.
"B"	3/8" Base Caulk joint - See Quarry Tile Spec
"C"	1/2" Vert. Wall joint - MILCOR #60 casing bead and caulk
"D"	Provide 1/2" pre-moulded expansion joint material continuous @ all concealed slab abutments.
"E"	3/8" Vert. Wall joint - Caulk raked Vert. Brick joint provide celotex behind 1/2" deep joint.
"F"	1" Flr. to Flr. exp. joint ARCH. ART. Type "AA-1" Alum.

NOTE: All floor exp. joint to have 1/2" pre-moulded exp. joint material continuous where new construction meets existing const.

MARBLE THRESHOLD NOTE.
See Floor Plan for * at door numbers. This indicates door with marble threshold. See Specifications for size, type, finish and installation.

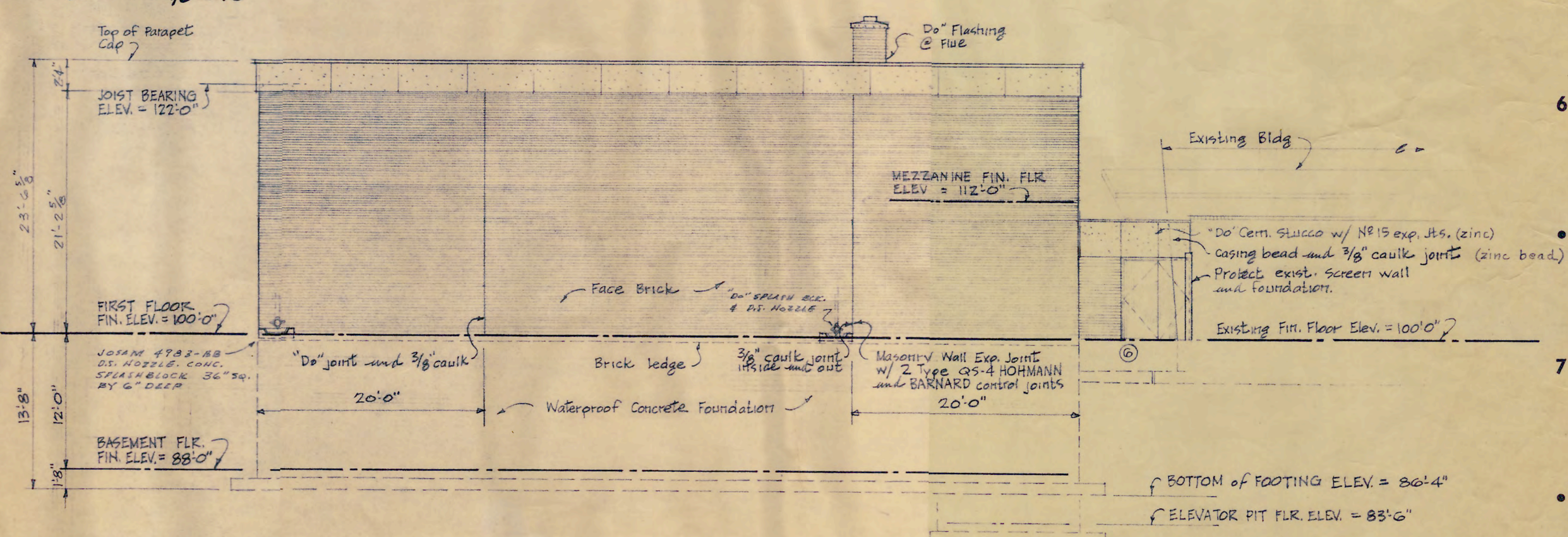
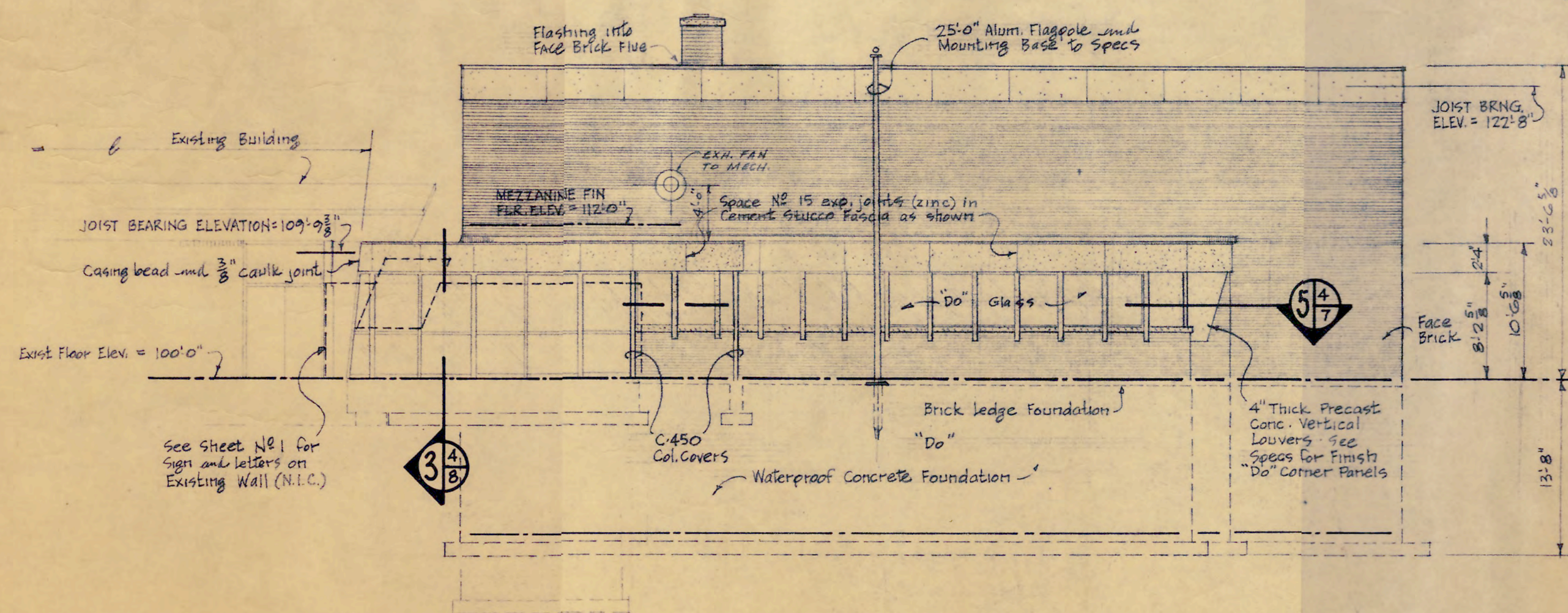
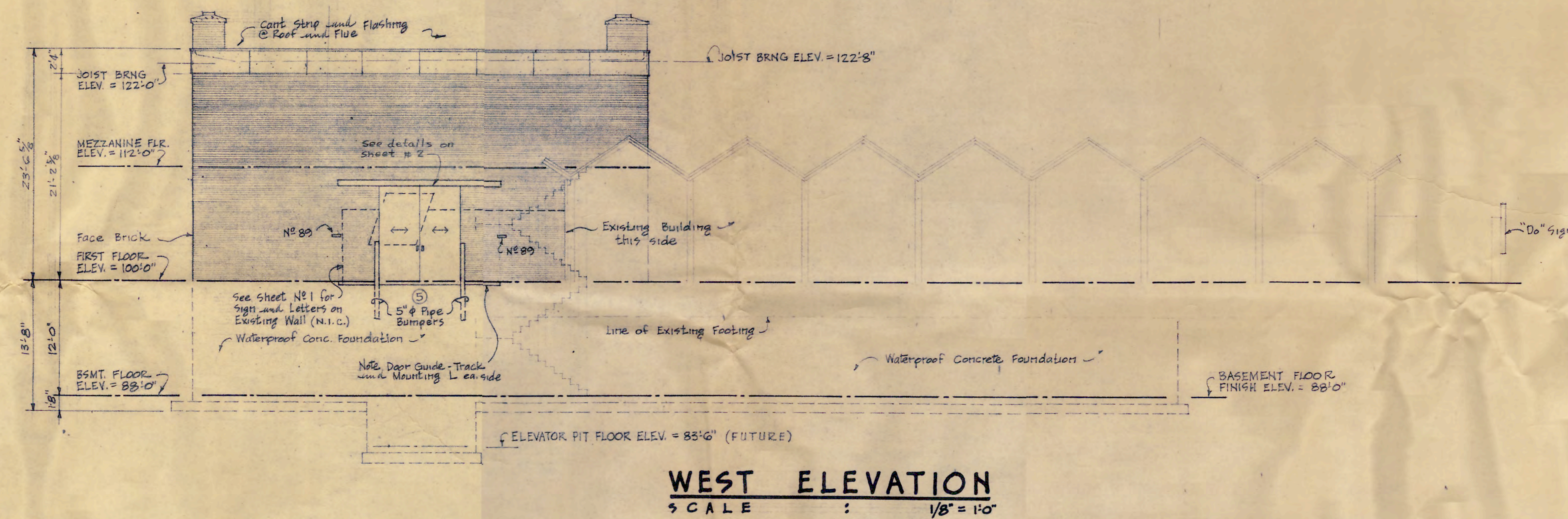
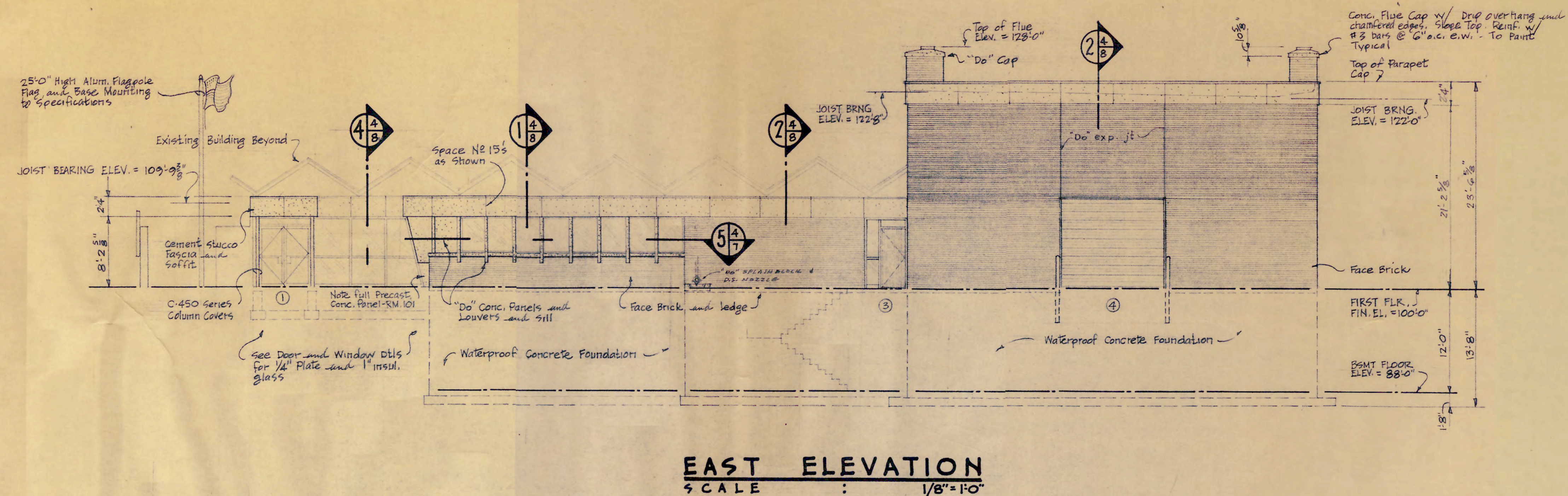
355
246
330
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JAR-MAR CO., Inc. ADDITION

3 OF 9

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ROOM NO	ROOM NAME	BASE	FLOOR	WALLS				CEILING		REMARKS
				NORTH	EAST	SOUTH	WEST	MATERIAL	HT.	
B-1	ELEVATOR	Same as Walls	Concrete	Conc. Mas. Block and Concrete	Conc. Mas. Block and Concrete	Conc. Mas. Block and Concrete	Conc. Mas. Block and Concrete	Exposed Structure	----	
B-2	STAIR	Same as Walls	Concrete - Sealed	Concrete Masonry Block	Concrete Masonry Block	Concrete Masonry Block	Concrete	Exposed Concrete	----	See SPECIFICATIONS for Concrete Floor Sealer - See Stair Section
B-3	PILOT PLANT STORAGE	Same as Walls	Concrete - Sealed	Concrete - Conc. Mas. Flue	Concrete and Conc. Mas. Block	Concrete and Conc. Mas. Block	Conc. Mas. Block and Wire Partition	Exposed Concrete	----	See ALTERNATE for Epoxy Finishes and Hardener
B-4	MECHANICAL EQUIPMENT	Same as Walls	Concrete - Sealed	Concrete Masonry Block	Conc. Mas. Block - Conc. Col.	Concrete Masonry Block	Concrete	Exposed Concrete	----	
B-5	STORAGE VAULT	Same as Walls	Concrete - Sealed	Concrete Masonry Block	Concrete Masonry Block	Concrete	Concrete	Plaster - Susp	----	
B-6	ELEVATOR EQUIPMENT ROOM	Same as Walls	Concrete - Sealed	Concrete	Wire Partition and Conc. Mas. Blk.	Concrete Masonry Block	Concrete	Exposed Concrete	----	
B-7	RECORDS VAULT	Same as Walls	Concrete - Sealed	Concrete	Concrete	Concrete	Concrete	Exposed Concrete	----	
100	ENTRY	Aluminum Base	Concrete w/ Carpet Mat	1/4" Glass - See Specs.	Entry Doors	1" insulating glass	Entry Doors	2x4 Acoust. Tile Lay-In	8'2 5/8"	Provide Ceiling "Hold-down" clips
101	RECEPTION and WAITING	Brick - Exist. and New	Slate and Carpet	Conc. Mas. Blk. w/ Spray Tex. Plaster	1" insul. glass and spray Tex. Plaster	1/2" and 1" insul. glass	Exist. Face Brick - Clean	2x4 Acoust. Tile Lay-In	8'2 5/8"	Solder Course New Brick Base - Note Alum. Base also - See Room Elevs. for Openings and Arches
102	RESEARCH OFFICE	Walnut - See Details	Conc. Sealed w/ Carpet	1/2" Gyp. Board w/ Paper	1/2" Gyp. Board w/ Paper	Plaster w/ Paper	Walnut and Walnut Drs. See Elev.	1/2" Gyp. Board - Susp.	8'2 5/8"	See SPECS. for Double 1/2" Gyp. Board application - To paint or Paper
103	CONFERENCE and LIBRARY	Walnut	Conc. Sealed w/ Carpet	1/2" Gyp. Board w/ Paper	1/2" Gyp. Board w/ Paper	Plaster w/ Paper	1/2" Gyp. Board w/ Paper	1/2" Gyp. Board - Susp.	8'2 5/8"	
104	PRODUCTION OFFICE	Walnut	Conc. Sealed w/ Carpet	1/2" Gyp. Board w/ Paper	Plaster w/ Paper	Plaster w/ Paper	1/2" Gyp. Board w/ Paper	1/2" Gyp. Board - Susp.	8'2 5/8"	
105	OFFICE	Walnut	Conc. Sealed w/ Carpet	Plaster w/ Paper	Plaster w/ Paper	1/2" Gyp. Board w/ Paper	1/2" Gyp. Board w/ Paper	1/2" Gyp. Board - Susp.	8'2 5/8"	
106	SECRETARIES	Walnut	Conc. Sealed w/ Carpet	Conc. Mas. Block w/ Plaster and Paper	1/2" Gyp. Board w/ Paper	1/2" Gyp. Board w/ Paper	1/2" Gyp. Board w/ Paper	12x12 fissured tile	8'2 5/8"	SEE ELEC. and PLAN for Luminous Ceiling
107	CLOSET	Walnut	Slate	1/2" Gyp. Board	1/2" Gyp. Board	1/2" Gyp. Board - Conc. Blk.	1/2" Gyp. Board	1/2" Gyp. Board - Susp.	8'2 5/8"	
108	EQUIPMENT	Walnut	Slate	1/2" Gyp. Board - Conc. Mas. Block	1/2" Gyp. Board	1/2" Gyp. Board	1/2" Gyp. Board	1/2" Gyp. Board - Susp.	8'2 5/8"	
109	HALL	Soldier F. Brick - Walnut	Slate	Face Brick Arch and Wall	Face Brick	Face Brick Arch and Wall	1/2" Gyp. Board w/ Paper - Face Brick	12x12 fissured tile	8'2 5/8"	
110	JANITOR'S CLOSET	4" Vinyl	Vinyl Asbestos Tile	Conc. Mas. Block - Epoxy	Conc. Mas. Block - Epoxy	Conc. Mas. Block - Epoxy	Conc. Masonry Block - Epoxy	1/2" Gyp. Board - Susp.	8'2 5/8"	
111	STORAGE	Top set quarry Tile	Quarry Tile	Conc. Mas. Block - Epoxy	Conc. Mas. Block - Epoxy	Conc. Mas. Block - Epoxy	Conc. Mas. Block - Epoxy	2x4 Acoust. Tile Lay-In	8'-0"	
112	MEATS LABORATORY *	Quarry Tile - Flush	Quarry Tile	Conc. Mas. Block - Epoxy	Conc. Mas. Block - Epoxy	Conc. Mas. Block - Epoxy	Conc. Mas. Block - Epoxy	Perf. Alum. Tile - Susp.	8'-0 1/2"	See Room Elevations for Plaster - Pre-fab Cooler-Freezer and Cabinets Dotted Equip. by Owner - see AIT. for SPECTRAGL.
113	FUTURE LABORATORY	4" Vinyl	Vinyl Asbestos Tile	Conc. Mas. Block - Epoxy	Conc. Mas. Block - Epoxy	Conc. Mas. Block - Epoxy	Conc. Mas. Block - Epoxy	Perf. Alum. Tile - Susp.	8'-0 1/2"	See ALTERNATE for SPECTRAGLASE Tile
114	STORAGE	4" Vinyl	Vinyl Asbestos Tile	Conc. Mas. Block - Epoxy	Conc. Mas. Block - Epoxy	Conc. Mas. Block - Epoxy	Conc. Mas. Block - Epoxy	1/2" Gyp. Board	8'-0"	
115	STAIRS	Soldier Brick & Q. Tile	Quarry Tile & Conc.	Face Brick	Conc. Mas. Block - Epoxy	Conc. Mas. Block - Epoxy	Conc. Mas. Block - Epoxy	2x4 Acoust. Tile Lay-In	8'2 5/8"	See Stair Section for additional details - Seal Exposed Conc. Gunit Trends and Landing
116	CORRIDOR	Soldier Brick	Vinyl Asb. Tile	Face Brick	1/4" Glass and Hol. Metal Frame	Face Brick	Face Brick	2x4 Acoust. Tile Lay-In	8'2 5/8"	
117	PILOT PLANT	Same as Walls - Epoxy	Concrete - Sealed	Conc. Mas. Block - Epoxy	Conc. Mas. Block - Epoxy	Conc. Mas. Block - Epoxy	Conc. Mas. Block - Epoxy	Exposed Str. - Paint	Varies	See SPECIFICATIONS for Floor Hardener - See Details for Plaster @ MEZZANINE Overhang
118	SHOP and TOOL ROOM	Same as Walls - Epoxy	Concrete - Sealed	Conc. Mas. Block - Epoxy	Conc. Mas. Block - Epoxy	Conc. Mas. Block - Epoxy	Conc. Mas. Block - Epoxy	Plaster - Susp.	8'-0"	See SPECIFICATIONS for Floor Hardener
119	ELEVATOR	Same as Walls	Concrete	Conc. Mas. Block	Conc. Mas. Block	Conc. Mas. Block	Conc. Mas. Block	Exposed Structural	Varies	
120	STAIRS	Same as Walls - Epoxy	Concrete - Sealed	Conc. Mas. Block - Epoxy	Conc. Mas. Block - Epoxy	Conc. Mas. Block - Epoxy	Conc. Mas. Block - Epoxy	Plaster - Susp.	Varies	See STAIR Details and Sections - See SPECS for Hardener
121	VESTIBULE	Soldier Brick	Vinyl Asb. Tile	1/4" Glass and Hol. Metal Frame	Face Brick	Face Brick	Face Brick - New and Exist. Patch	2x4 Acoust. Tile Lay-In	8'2 5/8"	
122	MEN'S TOILET	6" Coved Cer. Tile	Ceramic Tile 2x2	Face Brick - Epoxy	Face Brick - Epoxy - New and Patch	Face Brick - Epoxy	Face Brick - Epoxy	Plaster - Susp.	8'-0 1/2"	
123	LOCKER ROOM	6" Coved Cer. Tile	Ceramic Tile 2x2	Face Brick - Epoxy Existing	Face Brick - Epoxy	Face Brick - Epoxy and Epoxy Exist.	Face Brick - Epoxy Existing	Plaster - Susp.	8'-0 1/2"	See LOCKER BASE DETAIL also
124	WOMEN'S TOILET	Existing - Patch	Existing - Patch	Existing	Existing	Existing - Patch Glazed Brick	Existing - Patch Glazed Brick	Existing	Varies	7'-2" Plaster Ceiling @ New Oppg - See Elevs. for New Vanity Sink Cabinet Details - V.A. Tile Floor @ New Opening
125	LOUNGE	Existing - Patch	Existing - Patch	Existing - Patch Glazed Brick	Existing - Patch Glazed Brick	Existing - Patch Glazed				

The architectural drawings consist of several elevation and section views of different rooms:

- NORTH WALL ELEVATION - RECEPTION AND WAITING ROOM 101**: Shows a reception area with a curved wall, arches, and a door. Dimensions include 8'-3 1/2" height and 16'-0" width.
- WEST WALL - RESEARCH RM. 102**: A research room with a door and windows. Dimensions include 7'-0" height and 20'-0" width.
- WEST WALL ELEVATION - SECRETARIES RM. 106 and HALL ROOM 109**: A hallway and secretaries' room with multiple doors and windows. Dimensions include 8'-0" height and 20'-0" width.
- SOUTH WALL - MICRO-BIO LAB. RM. 12**: A laboratory room with a door and windows. Dimensions include 8'-3 1/2" height and 14'-4" width.
- NORTH WALL - MEATS LABORATORY ROOM NO 112**: A meat processing area with a counter, sink, and storage. Dimensions include 8'-0 1/2" height and 21'-2" width.
- EAST WALL ELEV. - MEATS LABORATORY RM 112**: Another view of the meat processing area. Dimensions include 8'-0 1/2" height and 21'-2" width.
- WEST WALL ELEV. - MEATS LABORATORY RM 112**: A third view of the meat processing area. Dimensions include 8'-0 1/2" height and 21'-2" width.
- PARTIAL W. WALL ELEV. - FUT. LAB. RM. 113**: A future laboratory room with a door and windows. Dimensions include 8'-0 1/2" height and 21'-2" width.
- EAST WALL. MICRO-BIO LAB RM. 127**: A microbiology laboratory room with a door and windows. Dimensions include 8'-0 1/2" height and 21'-2" width.
- NORTH WALL - BIOLOGY LAB. RM. 12**: A biology laboratory room with a door and windows. Dimensions include 8'-0 1/2" height and 21'-2" width.

The drawings include detailed notes on materials (e.g., brick, plaster, wood), construction methods (e.g., spray texture, project brick), and specific equipment or fixtures (e.g., cabinets, doors, windows). Dimensions are given in feet and inches, and scales are provided for each drawing.

LIGHT FIXTURE SCHEDULE

MARK	MANUFACTURER	CATALOG NO.	LAMP NO.	WATTS	TYPE	FINISH	MOUNTING	REMARKS
A	HOLOPHANE	F-7254-FLG	4	40	T-12	WHITE ENAMEL	RECESS	2'x4' FLANGED RECESSED FIXTURE WITH REGRESSED ACRYLIC PRISMATIC DIFFUSER, HPP CBM RS BALLAST.
B	HOLOPHANE	910-120	1	400	H33-19L/EX	ALUM.	PENDANT	MERCURY LUMINAIRE WITH PRISMATIC GLASS REFLECTOR AND IN-BUILT BALLAST.
C	SUNBEAM	302-BR(2)	4	40	T-12	WHITE ENAMEL	SURFACE	TWO LAMP INDUSTRIAL FLUOR. FIXTURE 8'-0" LONG, HPP CBM RS BALLAST.
D	SUNBEAM	201-4R	1	40	T-12	WHITE ENAMEL	SURFACE (SEE PLAN)	ONE LAMP FLUOR. STRIP FIXTURE 4'-0" LONG, HPP CBM RS BALLAST.
E	SUNBEAM	201-BR(2)	2	40	T-12	WHITE ENAMEL	SURFACE (SEE PLAN)	ONE LAMP FLUOR. STRIP FIXTURE 8'-0" LONG, HPP CBM RS BALLAST.
F	HOLOPHANE	F-7252	2	40	T-12	WHITE ENAMEL	RECESS	2'x4' "LAY-IN" FIXTURE WITH REGRESSED ACRYLIC PRISMATIC DIFFUSER, HPP CBM RS BALLAST.
G	MARGO	J12-K4G	1	150	A-23	MATTE WHITE	RECESS	WALL MOUNTED BRACKET FIXTURE WITH TAPERED OPAL GLASS DIFFUSER.
H	MARGO	833	1	150	A-23	SATIN ALUM.	SURFACE	WALL MOUNTED BRACKET FIXTURE WITH PRISMATIC REFRACTOR, PROVIDE ADEQUATE SEAL BETWEEN FIX. & CURVED METAL SIDING.
J	HOLOPHANE	400	1	150	A-23	ALUM.	SURFACE	ONE LAMP INDUSTRIAL FLUOR. FIXTURE 4'-0" LONG, HPP CBM RS BALLAST.
K	SUNBEAM	301-4R	1	40	T-12	WHITE ENAMEL	SURFACE (SEE PLAN)	ONE LAMP INDUSTRIAL FLUOR. FIXTURE 8'-0" LONG, HPP CBM RS BALLAST.
L	SUNBEAM	301-BR(2)	2	40	T-12	WHITE ENAMEL	SURFACE (SEE PLAN)	ONE LAMP INDUSTRIAL FLUOR. FIXTURE 8'-0" LONG, HPP CBM RS BALLAST.
M	PORCELAIN LAMPHOLDER		1	150	A-23	WHITE	SURFACE	WITH PULL SW. (RS) WHERE INDICATED ON PLAN.
N	MARGO	812	1	150	A-23	SATIN ALUM.	SURFACE	CEILING MTD. FIXTURE WITH OPAL GLASS SPHERE.
O	SUNBEAM	302-4R	2	40	T-12	WHITE ENAMEL	SURFACE	TWO LAMP INDUSTRIAL FLUOR. FIXTURE 4'-0" LONG, HPP CBM RS BALLAST.
P	SUNBEAM	303-4R	3	40	T-12	WHITE ENAMEL	SURFACE	THREE LAMP INDUSTRIAL FLUOR. FIXTURE 4'-0" LONG, HPP CBM RS BALLAST.
R	SUNBEAM	303-BR(2)	6	40	T-12	WHITE ENAMEL	SURFACE	THREE LAMP INDUSTRIAL FLUOR. FIXTURE 8'-0" LONG, HPP CBM RS BALLAST.
S	MARGO	JDS-T412	1	150	R-40	MATTE WH. TRIM	RECESS	LOW BRIGHTNESS FIXTURE WITH MATTE BLACK ALZAK CONG. WITH PREWIRED J-BOX.
T	MID-WEST	F-2120T-AC-D	1	20	T-12	WHITE ENAMEL	SURFACE	WHITE TRANSLUCENT ACRYLIC ENCLOSED FIXTURE, HPP JLT TS BALLAST, 2'x4" LONG W/ CONIC OUTLET.
U	MID-WEST	F-214DR-H-AC	1	40	T-12	WHITE ENAMEL	SURFACE	WHITE TRANSLUCENT ACRYLIC ENCLOSED FIXTURE, HPP CBM RS BALLAST, 4'-0" LONG.
V	SILVERAY-LITECRAFT	X821-1R	2	25	T-6 1/2	SATIN ALUM.	SURFACE	CEILING MOUNTED EXIT LIGHT FIXTURE WITH DIODE RECTIFIER, STENCIL FACE.
W	BRYANT	PQ CAP 73 BODY	1	150	A-23	WHITE	SURFACE	PORCELAIN LAMPHOLDER ON REINFORCED CORD.

LIGHTING PANEL "A"

SQUARE D HND CIRCUIT BREAKER PANELBOARD, SURFACE MOUNTED, 120/240 V. - 1P-3W-5N, TWO SECTIONS, 225A, M.L.O. 5A SECTION, 42 1-POLE BRANCHES 5A SECTION, 60 ACTIVE 30A, 1-POLE BREAKERS, 3 ACTIVE 30A, 2-POLE BREAKERS, 10 SPARE 1-POLE SPACES.

ESTIMATED CONNECTED ELECTRICAL LOAD FOR NEW ADDITION:	
120/240 V. - 1P	61 KW
240 V. - 3P	21 KW
480 V. - 3P	319 KW
INCLUDES 200 KW FOR PILOT PLANT	401 KW TOTAL

POWER PANEL "P"

SQUARE D TYPE QMS FUSE DISTRIBUTION PANELBOARD, SURFACE MOUNTED, 480 V. - 3P-3W, 200 A, M.L.O. 30X HT. 68"

CIRC. NO.	DESIGNATION	VOLTS	AMPS	Ø	HP	SWITCH	FUSE	WIRE	CONDUIT
1	A.C. COND.	480	5.4	3	30 A	3P	8 A	3-1/2 THW	1/2"
2	A.C. COND.	480	5.4	3	30 A	3P	8 A	3-1/2 THW	1/2"
3	A.H. UNIT "A"	480	2.5	3	30 A	3P	5 A	3-1/2 THW	1/2"
4	A.H. UNIT "B"	480	7.5	3	30 A	3P	15 A	3-1/2 THW	1/2"
5	CHILLER	480	68	3	100 A	3P	30 A	3-1/2 THW	1 1/4"
6	FUTURE ELEVATOR	480	40	3	15 60 A	3P	PROVIDE SWITCH ONLY.		
7	SMOKEHOUSE	480	11	3	30 A	3P	20 A	3-1/2 THW	1/2"
8	FEED WATER PUMP	480	3.3	3	30 A	3P	8 A	3-1/2 THW	1/2"

NOTE: BUS BARS TO EXTEND FULL HEIGHT OF UNIT MOUNTING SPACE ON ALL PANELS.

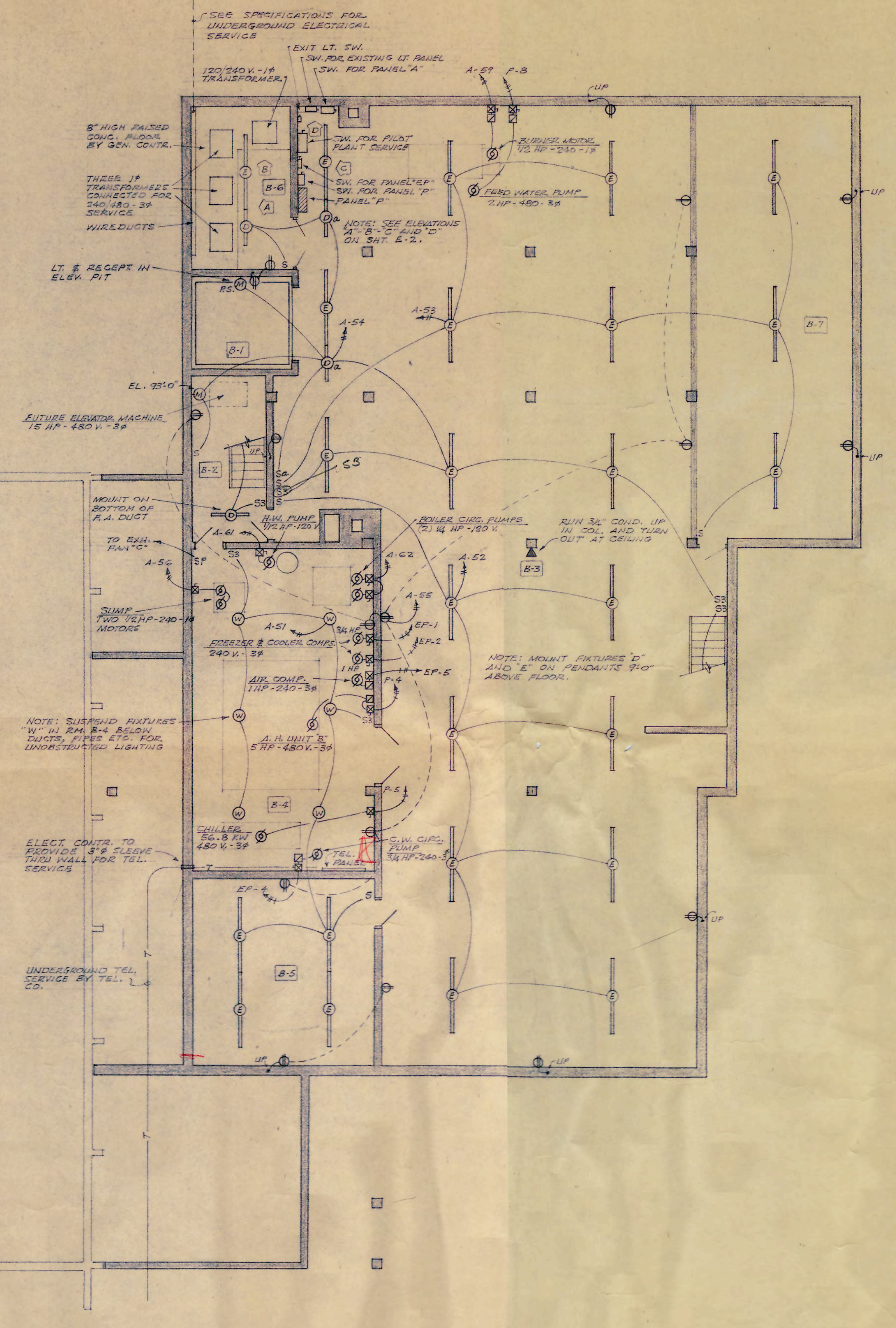
EXISTING POWER PANEL "EP"

(USE EXISTING SPARE SWITCHES)

CIRC. NO.	DESIGNATION	VOLTS	AMPS	Ø	HP	SWITCH	FUSE	WIRE	CONDUIT
1	COOLER COMR	240	2.8	3	30 A	3P	5 A	3-1/2 THW	1/2"
2	FREZER COMR	240	3.5	3	30 A	3P	8 A	3-1/2 THW	1/2"
3	SMOKEHOUSE	240	40	3	60 A	3P	60 A	3-1/2 THW	1"
4	C.V. CIRC. PUMP	240	2.8	3	30 A	3P	5 A	3-1/2 THW	1/2"
5	AIR COMR	240	3.5	3	30 A	3P	8 A	3-1/2 THW	1/2"

BASEMENT ELECTRICAL PLAN

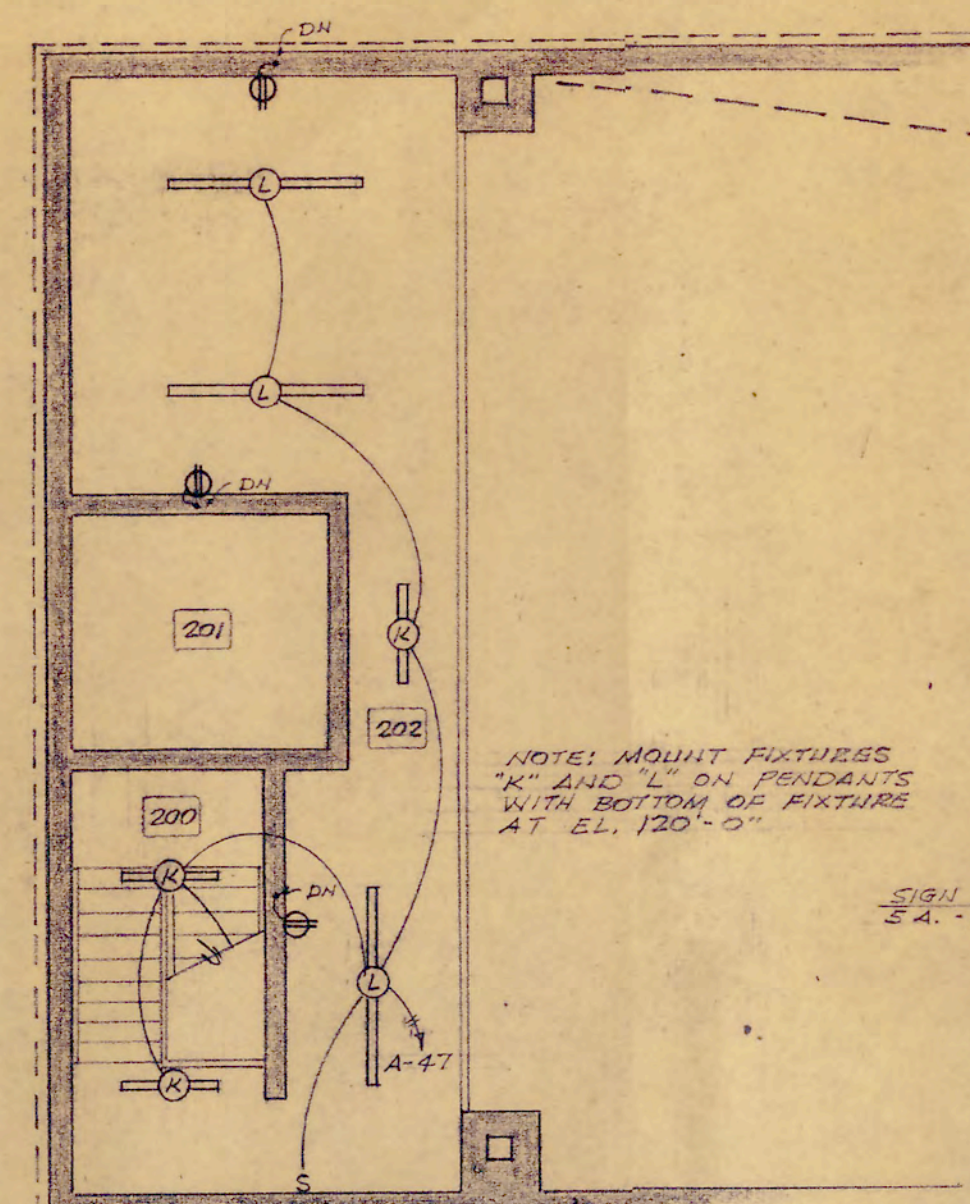
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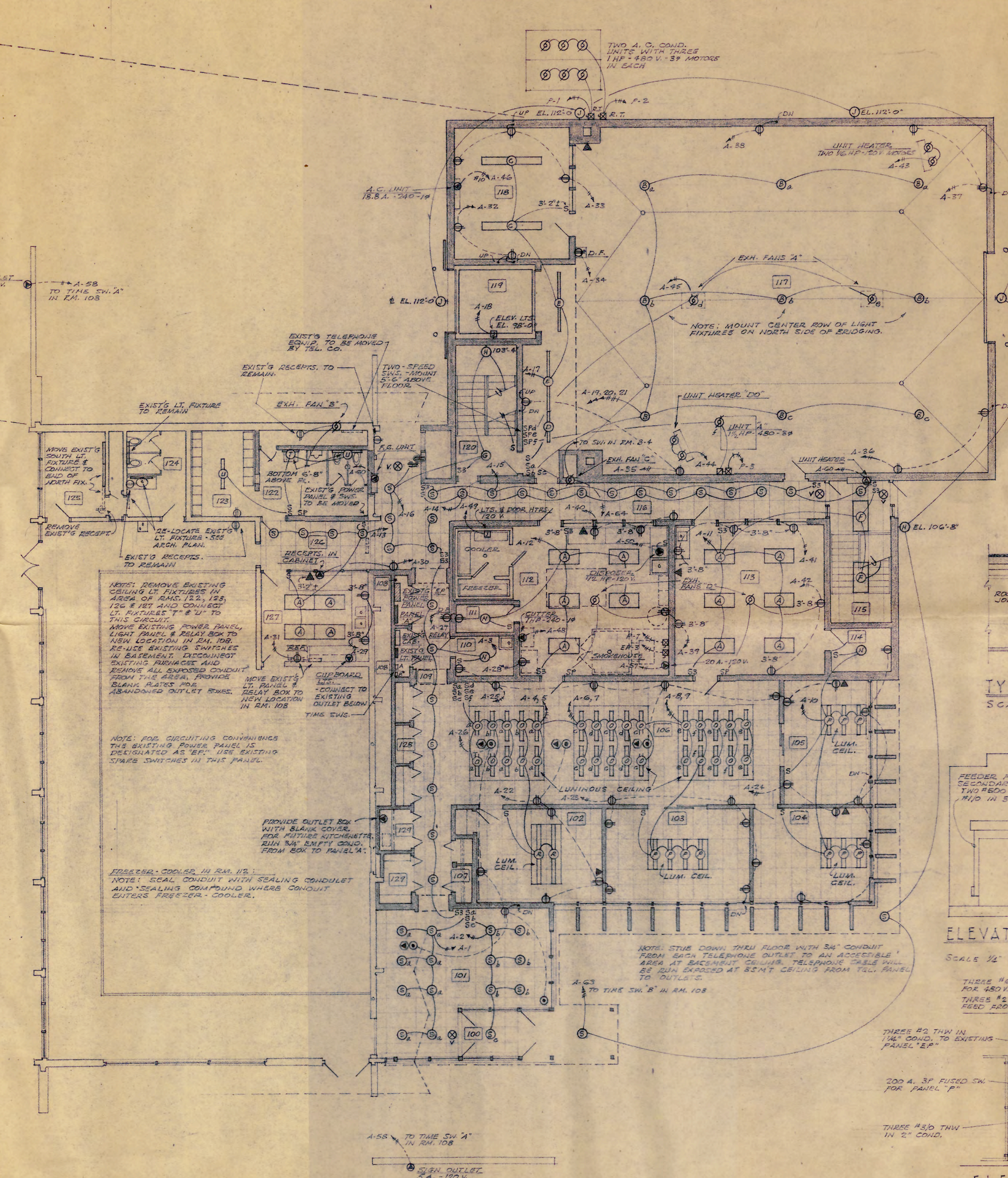
JAR-MAR-CO., Inc. ADDITION

E1 OF 2

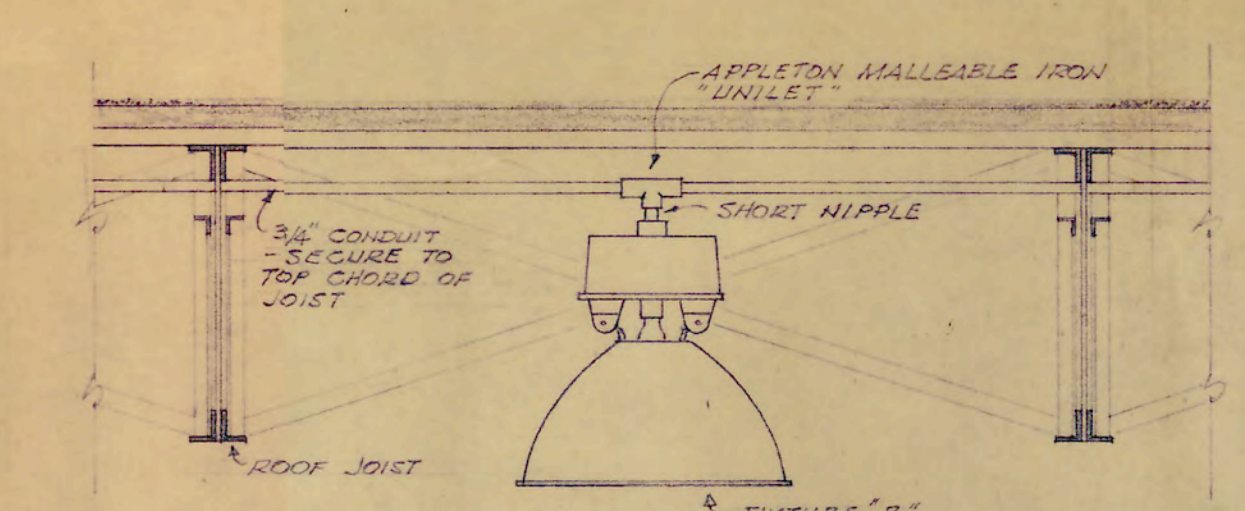
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architects and engineers hutchinson, kansas



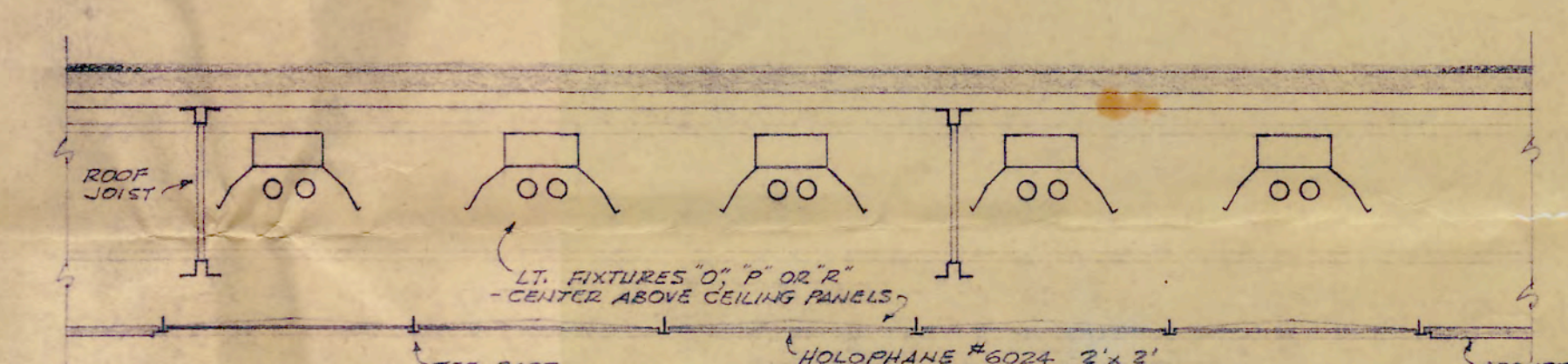
MEZZANINE ELECTRICAL PLAN
SCALE 1/8" = 1'-0"



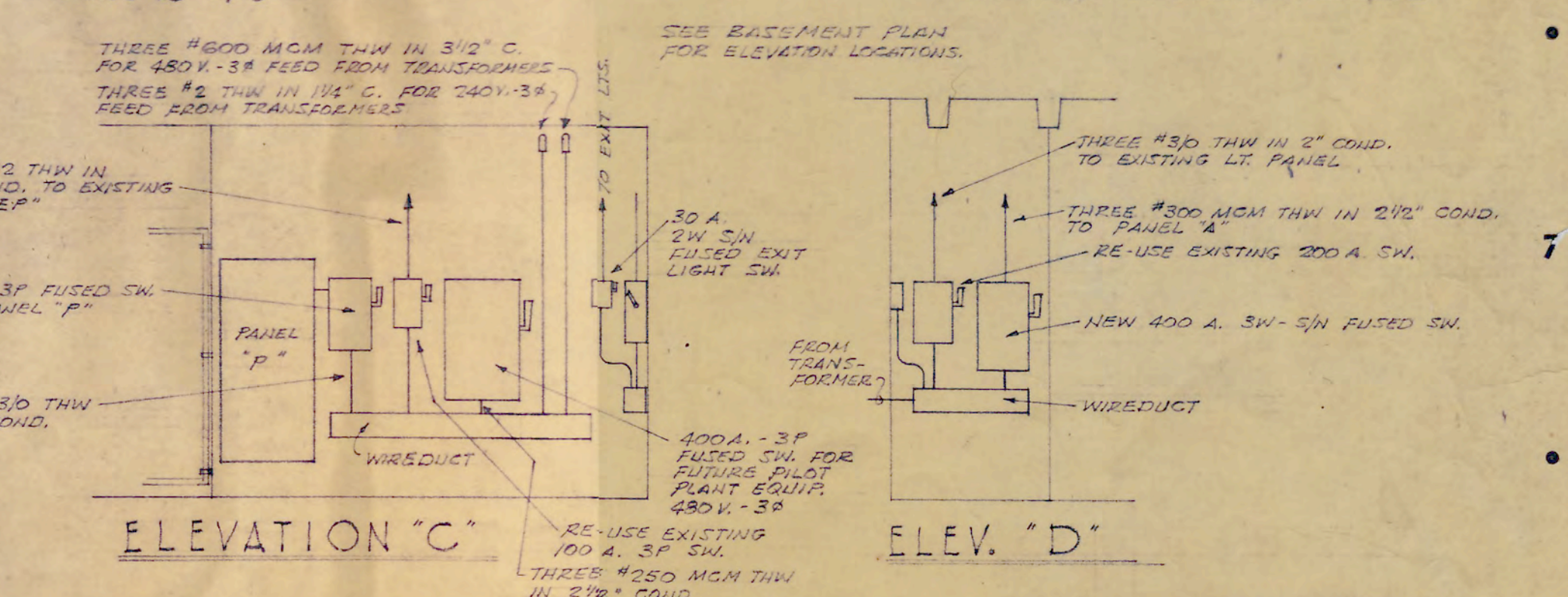
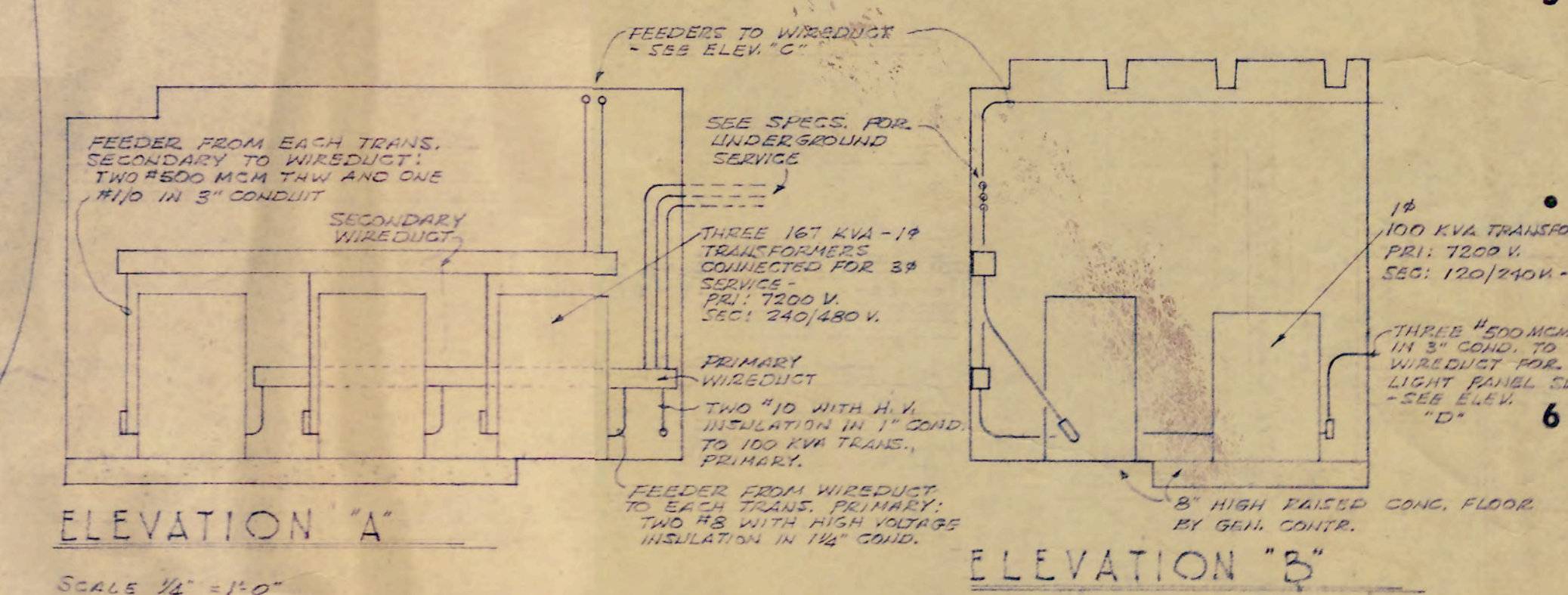
FIRST FLOOR ELECTRICAL PLAN
SCALE 1/8" = 1'-0"



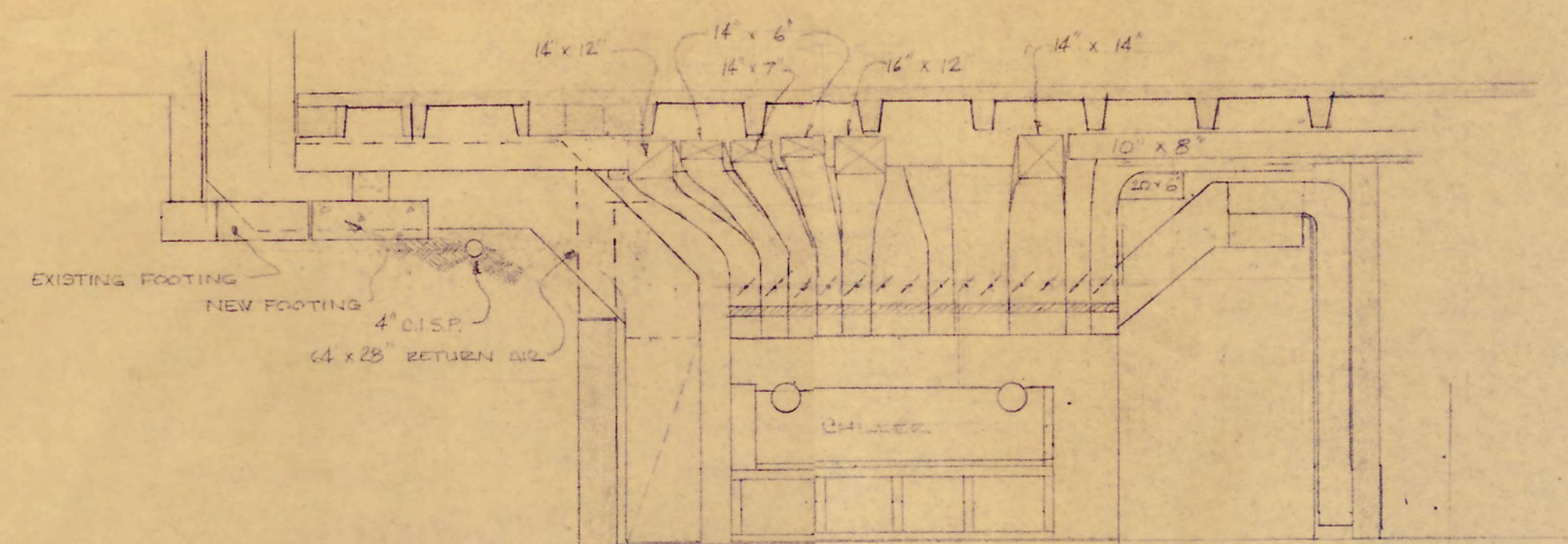
FIXTURE "B" MOUNTING DETAIL
SCALE 3/4" = 1'-0"



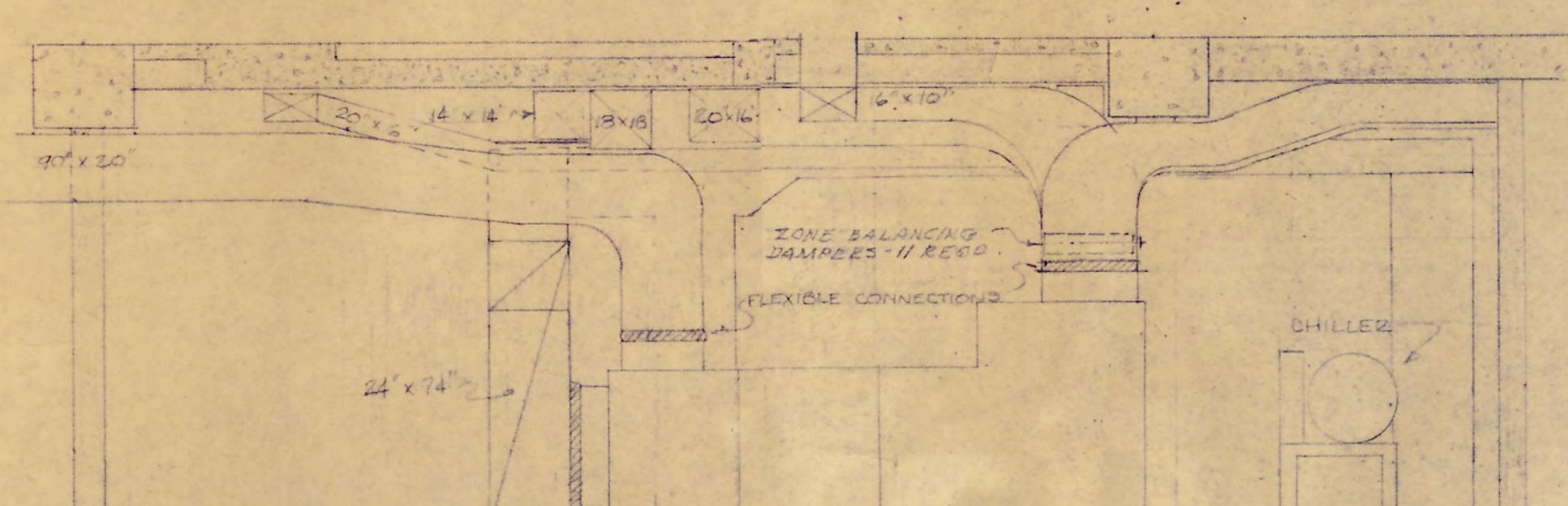
TYP. LUMINOUS CEILING DETAIL ROOMS 102, 103, 104, 105 & 106
SCALE 3/4" = 1'-0"



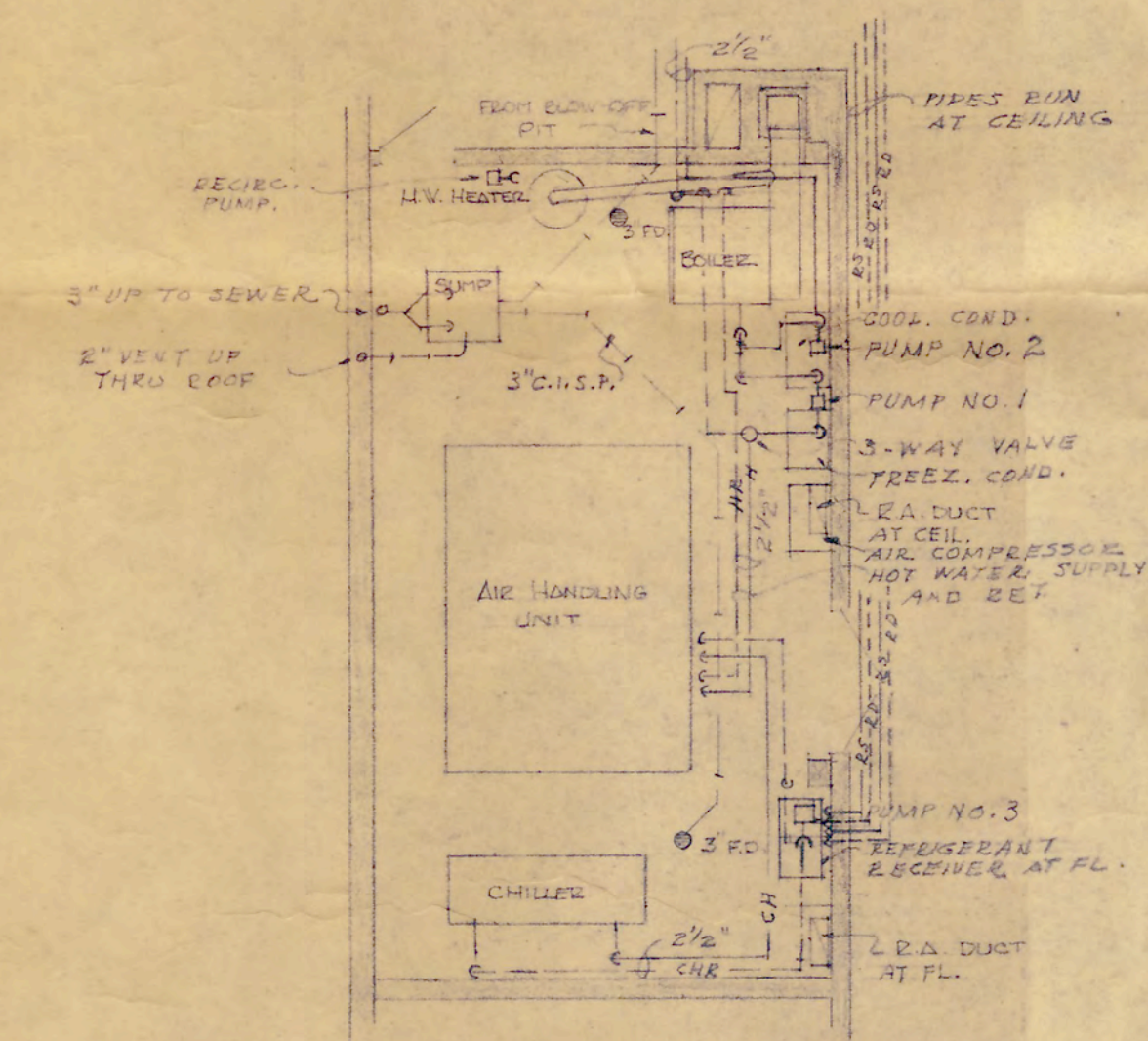
FAR MAR CO., Inc. ADDITION



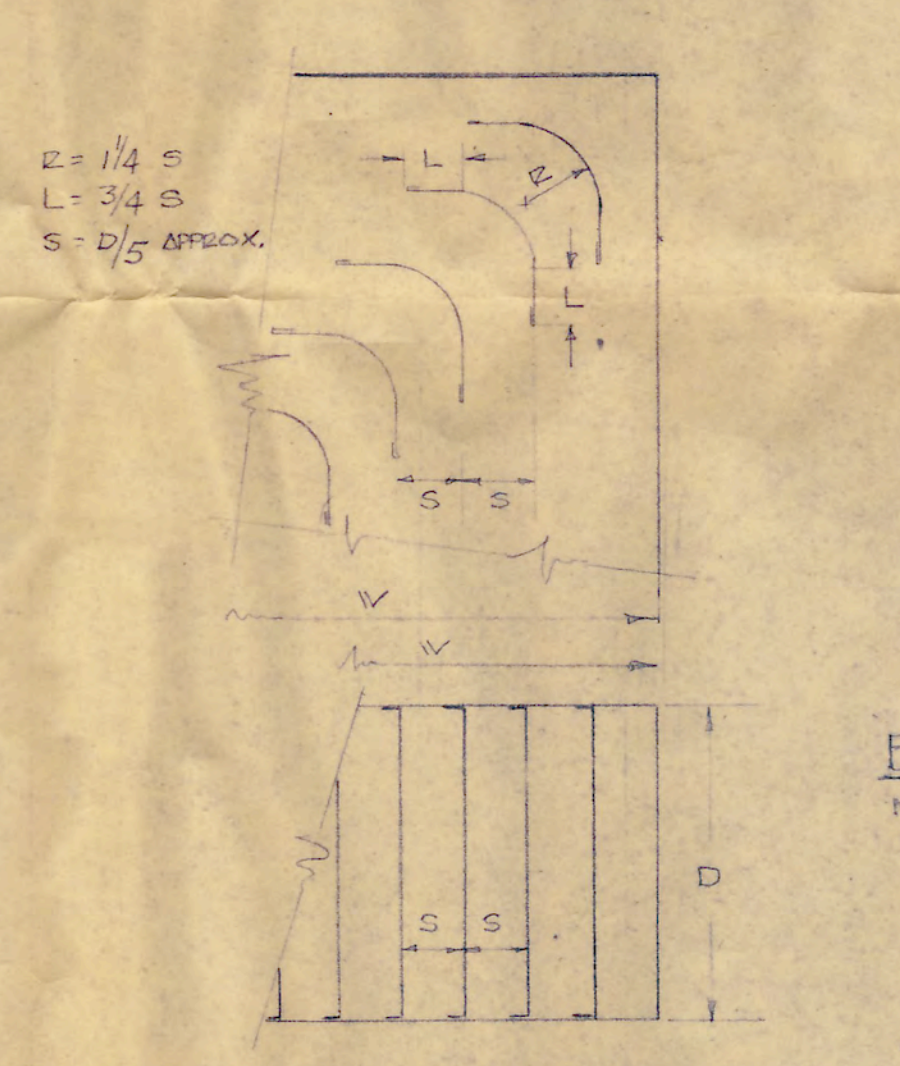
MECHANICAL ROOM SECTION 1
SCALE: 1/4" = 1'-0"



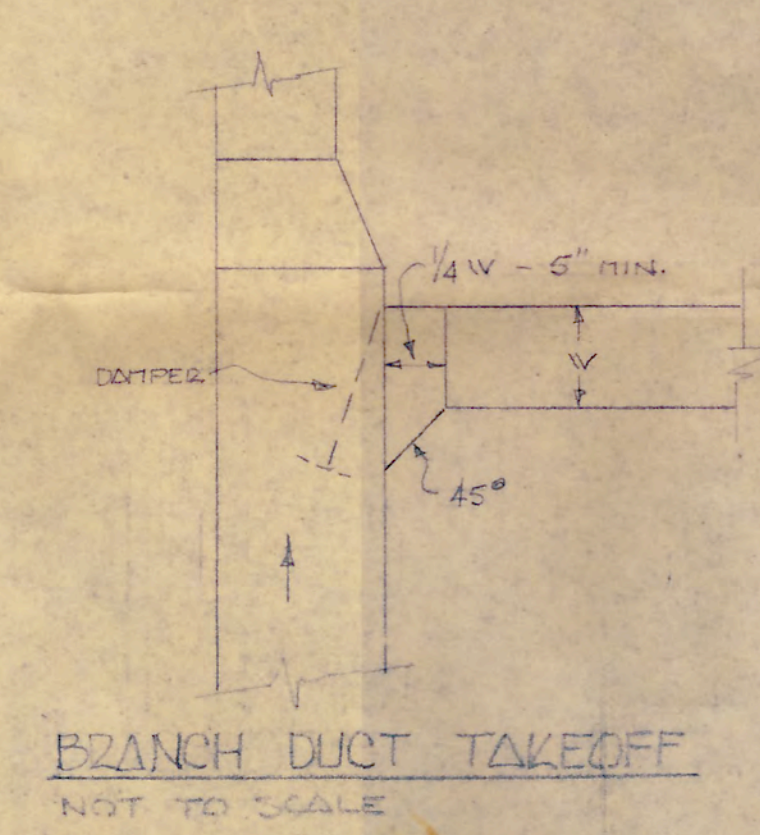
MECHANICAL ROOM SECTION 2
SCALE: 1/4" = 1'-0"



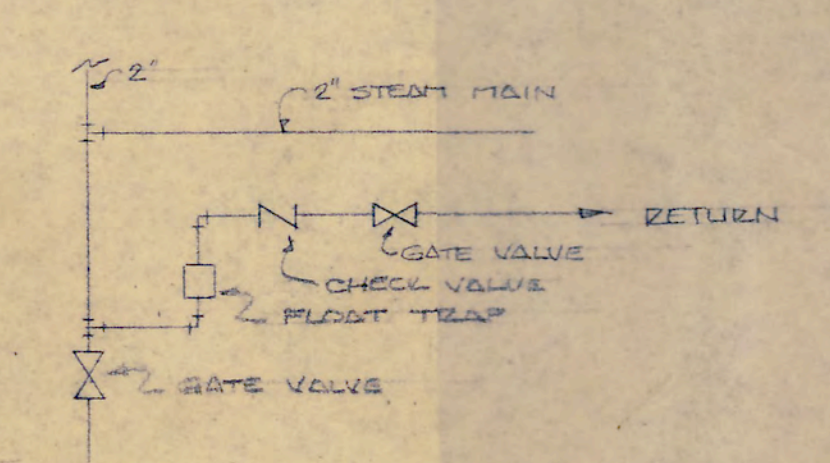
MECHANICAL ROOM PLAN - WITHOUT DUCTS
SCALE: 1/8" = 1'-0"



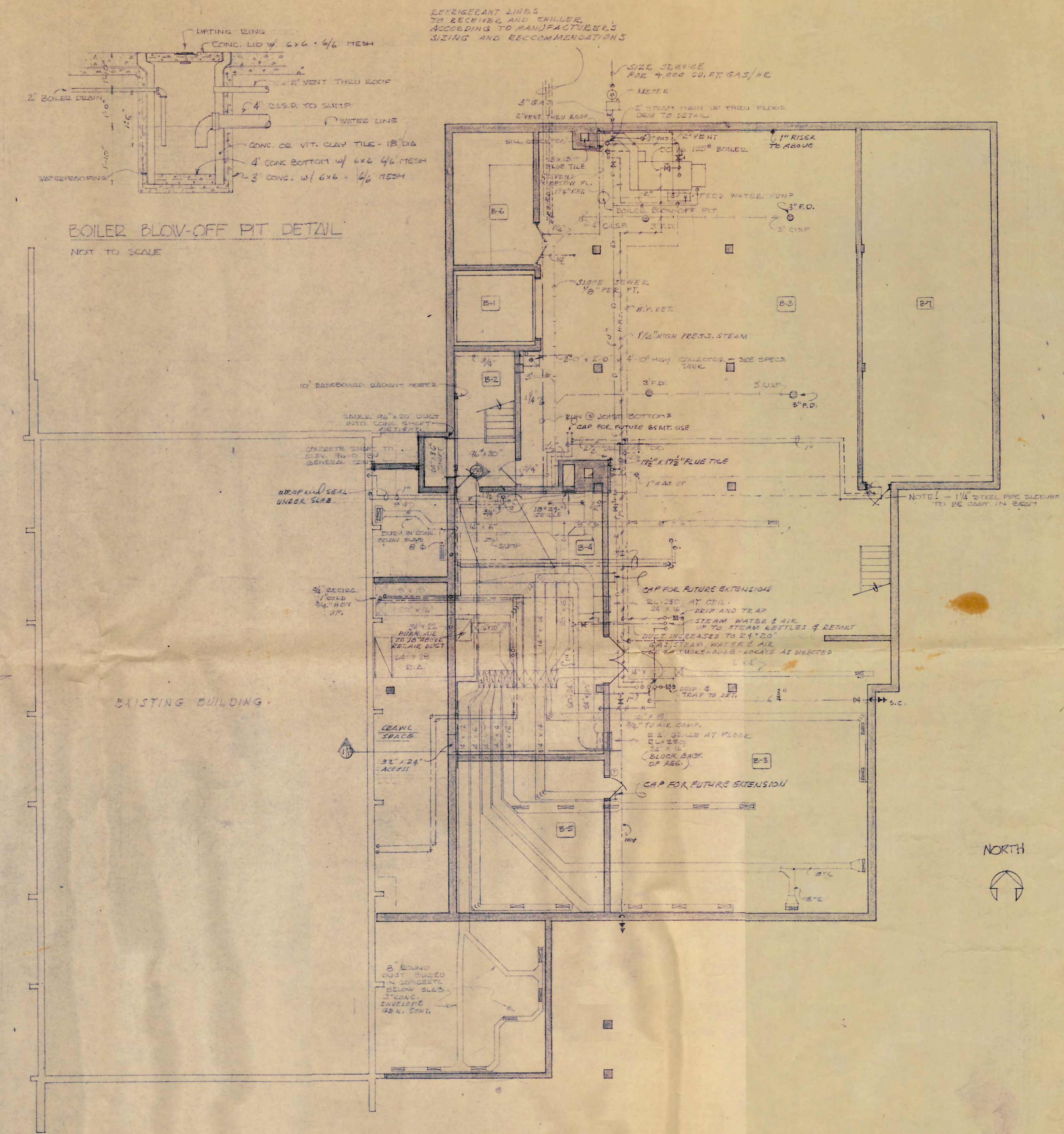
TYPICAL VANED ELBOW DETAIL
NOT TO SCALE



BRANCH DUCT TAKEOFF
NOT TO SCALE

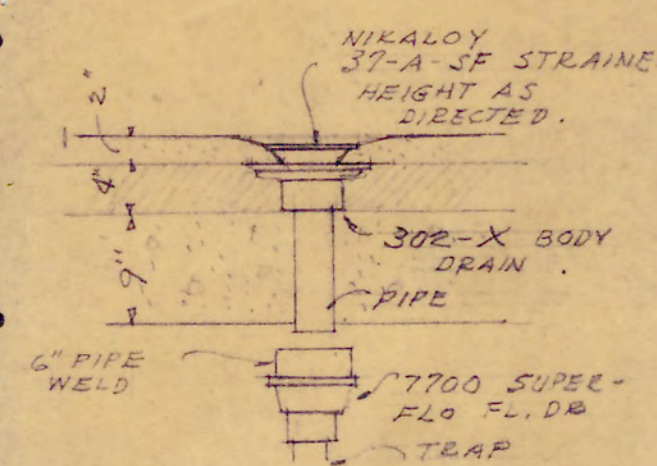


STEAM MAIN DRIP TRAP
NOT TO SCALE

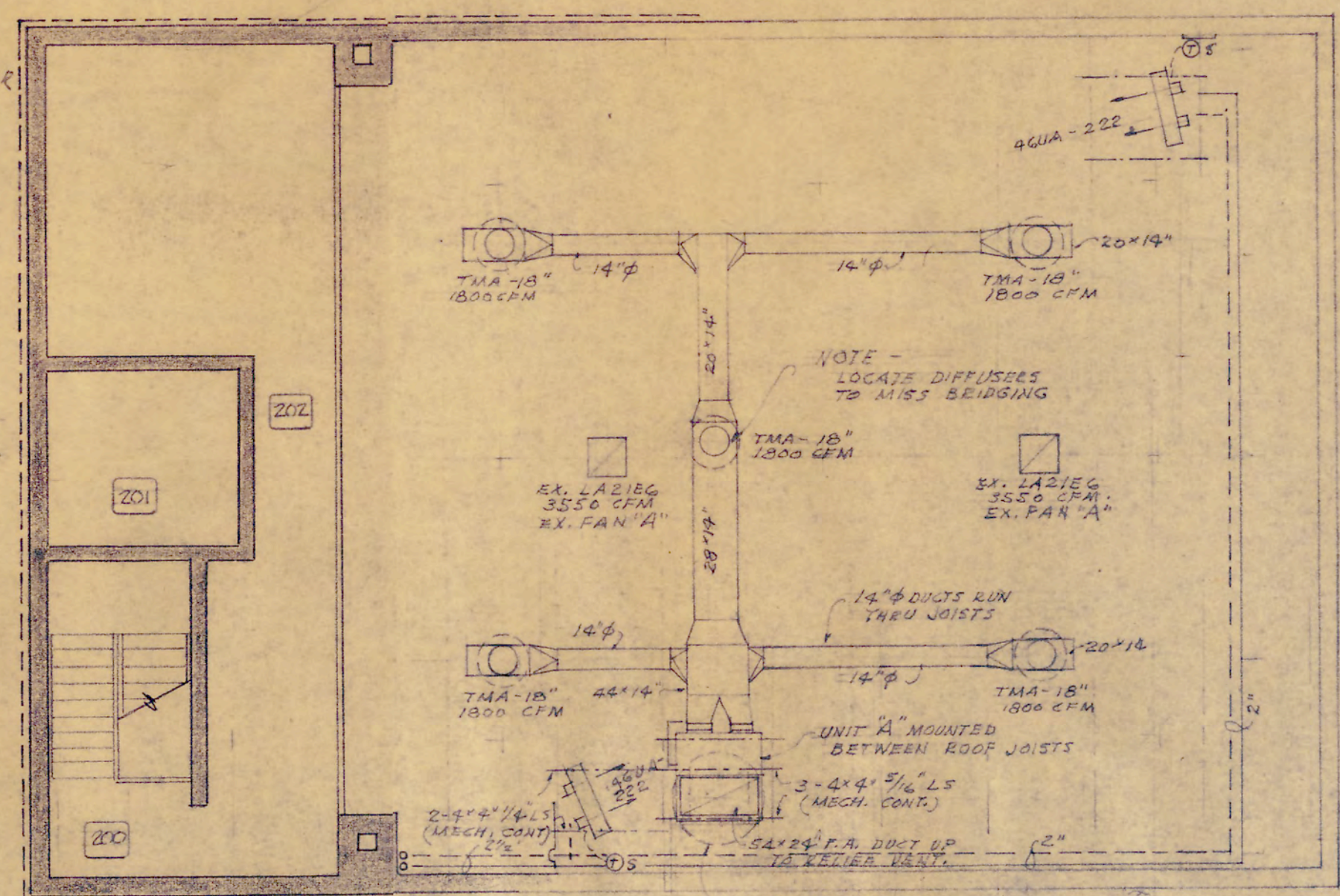


BASEMENT MECHANICAL PLAN
SCALE: 1/8" = 1'-0"

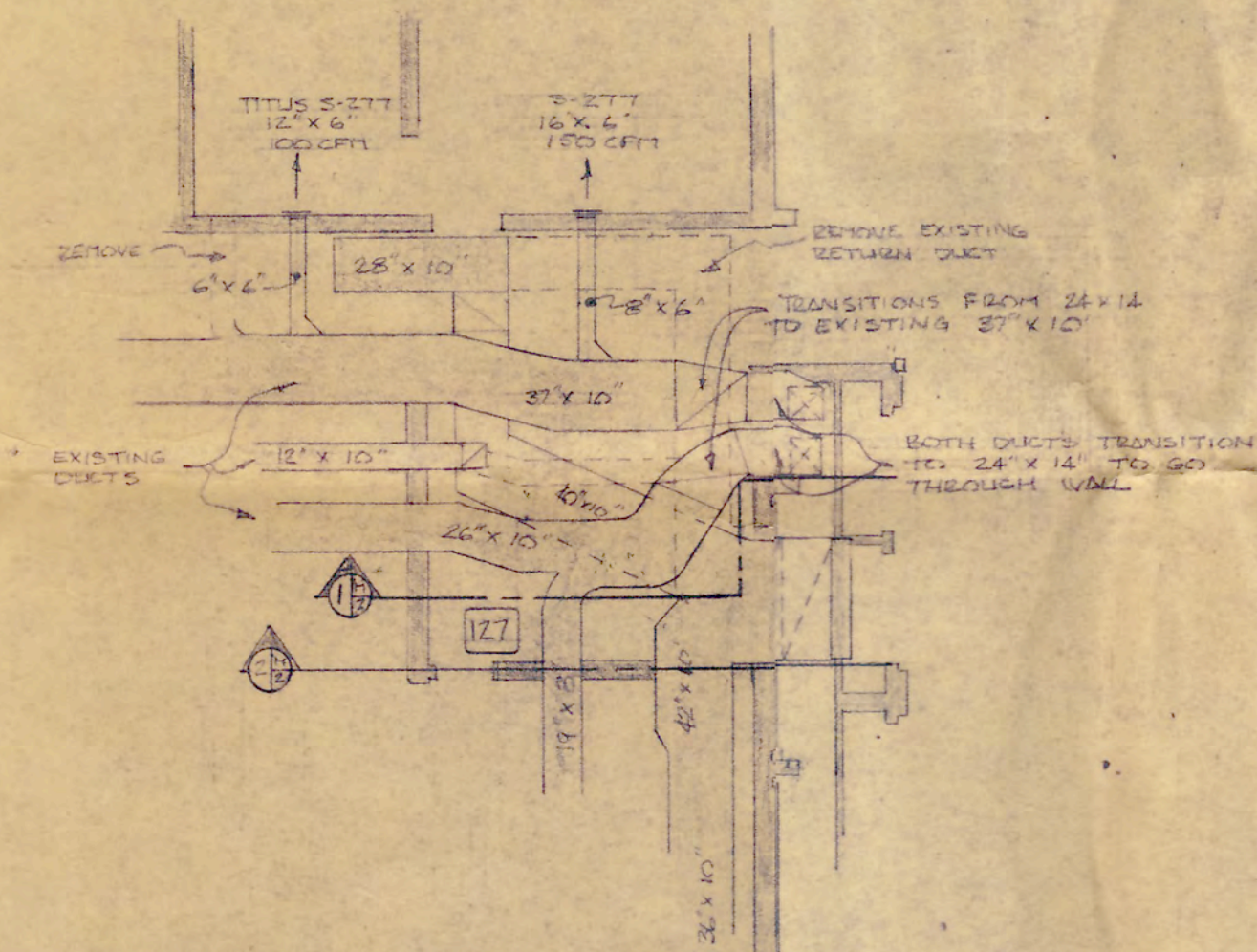
JAR MAR CO., Inc. ADDITION



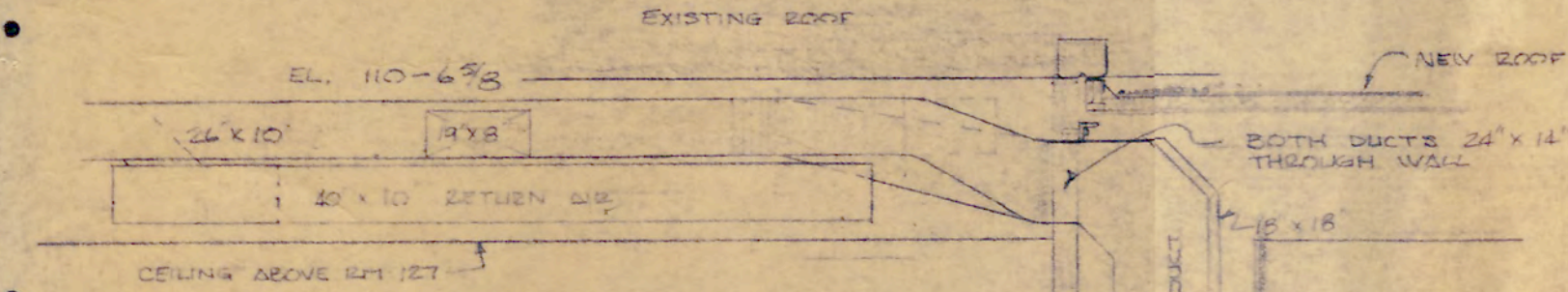
INDIRECT FLOOR DRAIN DETAIL.
SCALE 3/4" = 1'-0"



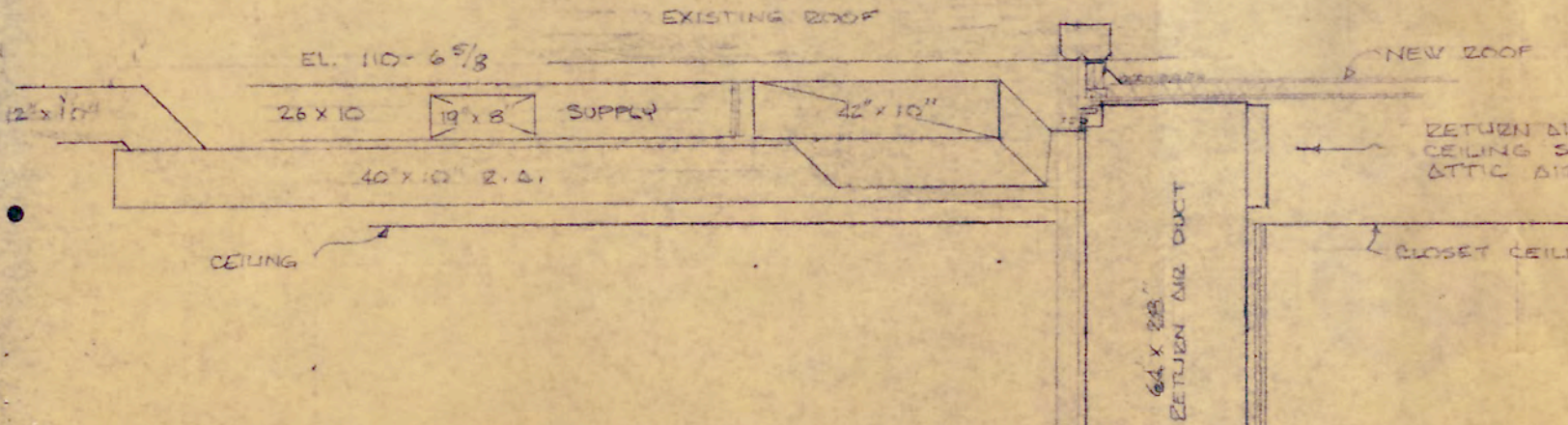
MEZZANINE MECHANICAL PLAN
SCALE 1/2" = 1'-0"



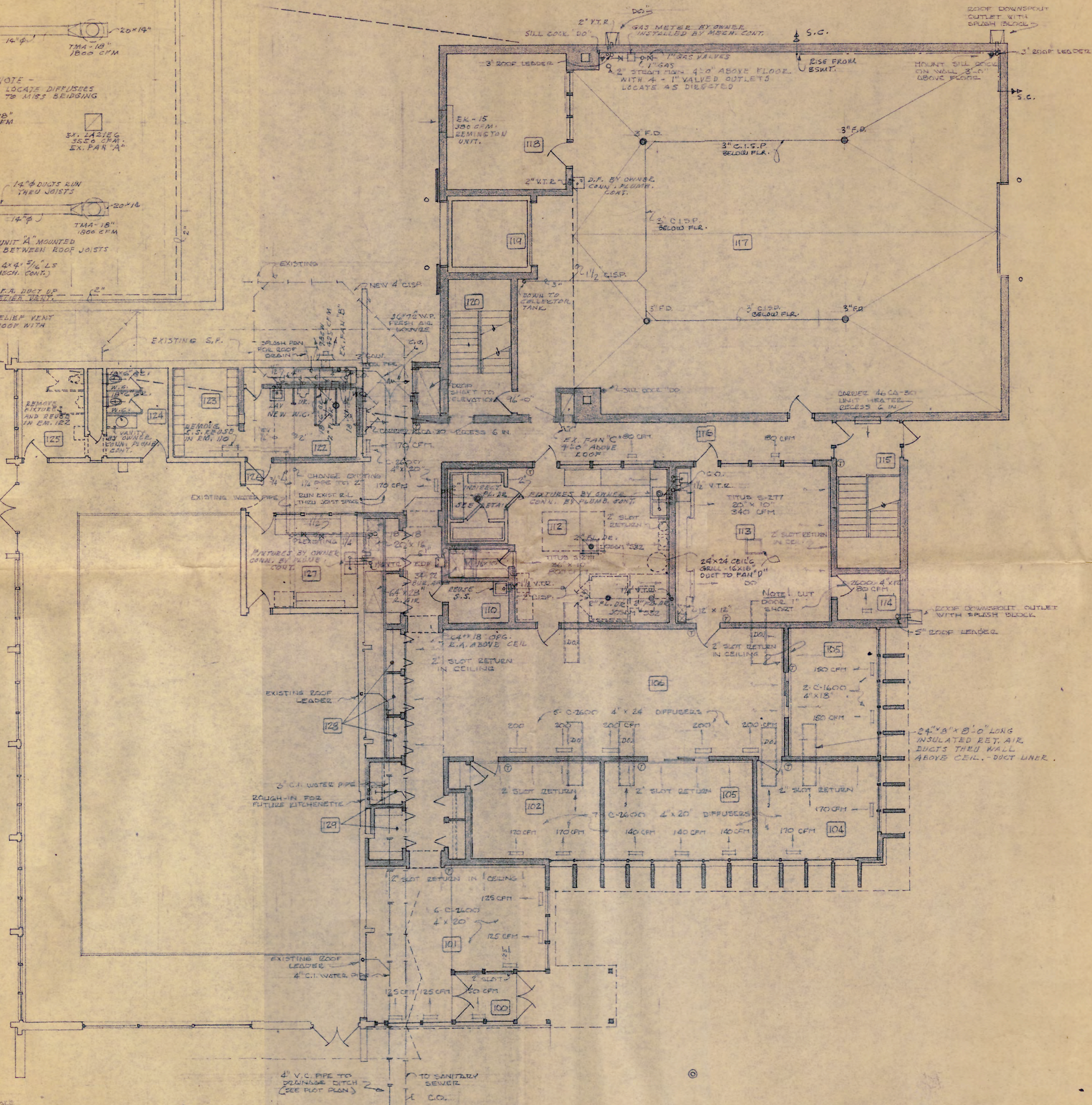
DUCT WORK ABOVE RMTS 126 & 127
SCALE 1/8" = 1'-0"



ATTIC SECTION
SCALE 3/8" = 1'-0"



ATTIC SECTION
SCALE 3/8" = 1'-0"

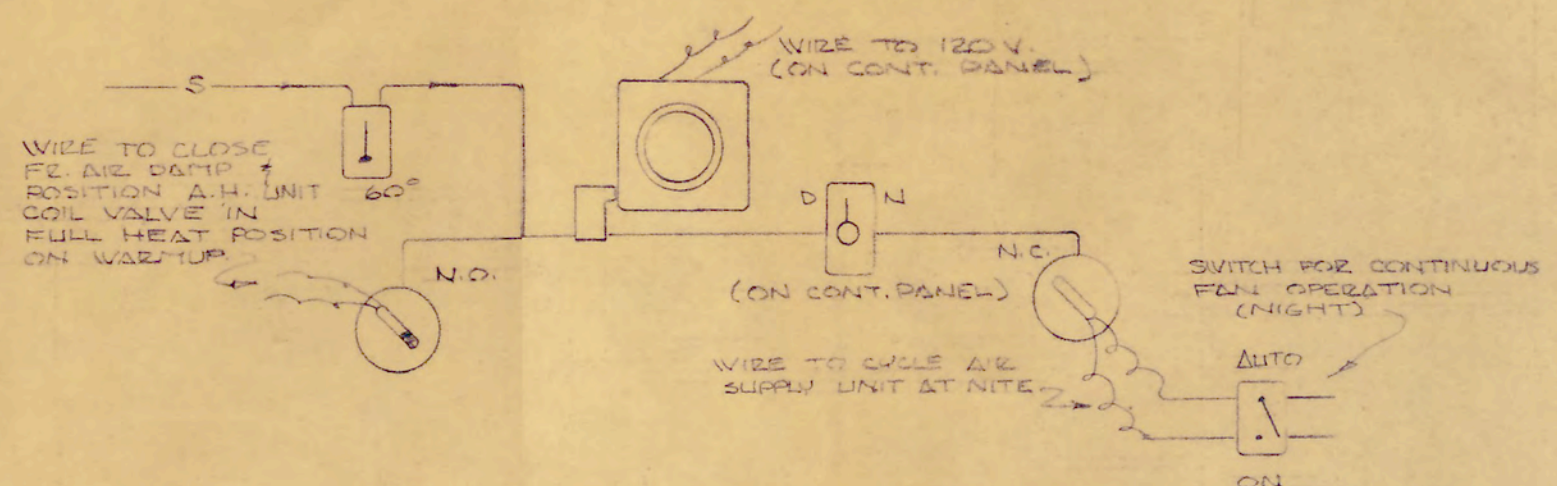


FIRST FLOOR MECHANICAL PLAN
SCALE 1/8" = 1'-0"

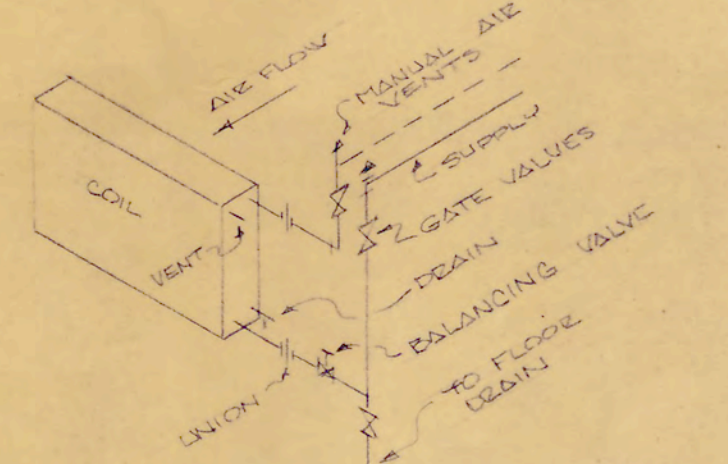
MECHANICAL NOTES

1. LOCATE WATER, GAS, STEAM & COMPRESSED AIR OUTLETS AS REQ'D BY EQUIPMENT AND AS DIRECTED BY OWNER.
2. MAKE ALL CONNECTIONS TO PROCESSING EQUIPMENT WITH CUT-OFF VALVES.
3. SEAL ATTIC SPACE AIRTIGHT ABOVE ROOFS WHICH HAVE RETURN AIR SLOTS IN CEILING.
4. BREAK OUT AND REPAIR FLOOR WHERE NECESSARY TO INSTALL PLUMBING IN EXISTING BLDG.
5. PIPING AND DUCTWORK ARE SHOWN DIAGNOSTICALLY, RUN TO CONFORM WITH BUILDING CONSTRUCTION. RUN SO AS NOT TO INTERFERE WITH REMOVAL OF COILS, CHILLED TUBES OR FILTERS.
6. INCREASE SIZE OF ALL DUCTWORK TO PROVIDE FOR 1/2" THICK INTERIOR INSUL DUCT LINER.
7. PACK ALL JOINTS AROUND PIPES AND DUCTS PASSING THRU FLOORS AND PARTITIONS WITH CONCRETE, PLASTER OR BCGWORK TO MAKE SOUNDPROOF & AIRTIGHT.
8. INSULATE ALL CHILLED WATER PIPING OR PIPING THAT WILL SWEAT. RE-INSULATE EXISTING PIPING.
9. MATERIAL AND EQUIPMENT REMOVED AND NOT DESIRED TO BE PROPERLY OF THE CONTRACTOR'S AND REMOVED FROM SITE.
10. ALL UTILITIES REQUIRED FOR DUCT WORK AND MECHANICAL EQUIPMENT PROVIDED BY GENERAL CONTRACTOR.

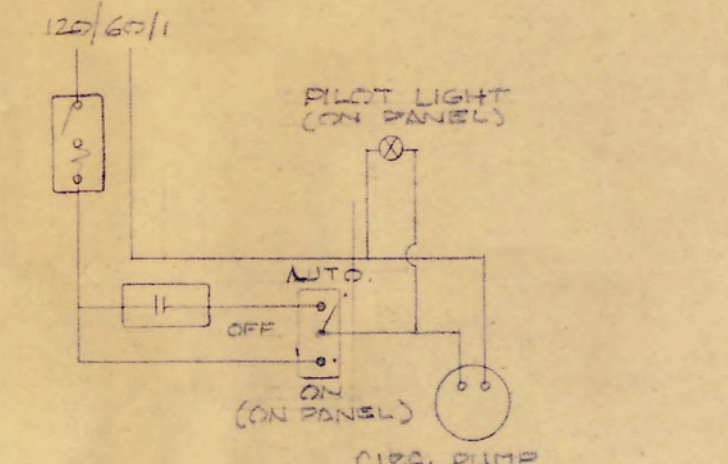
FAR MAR CO. Inc., ADDITION



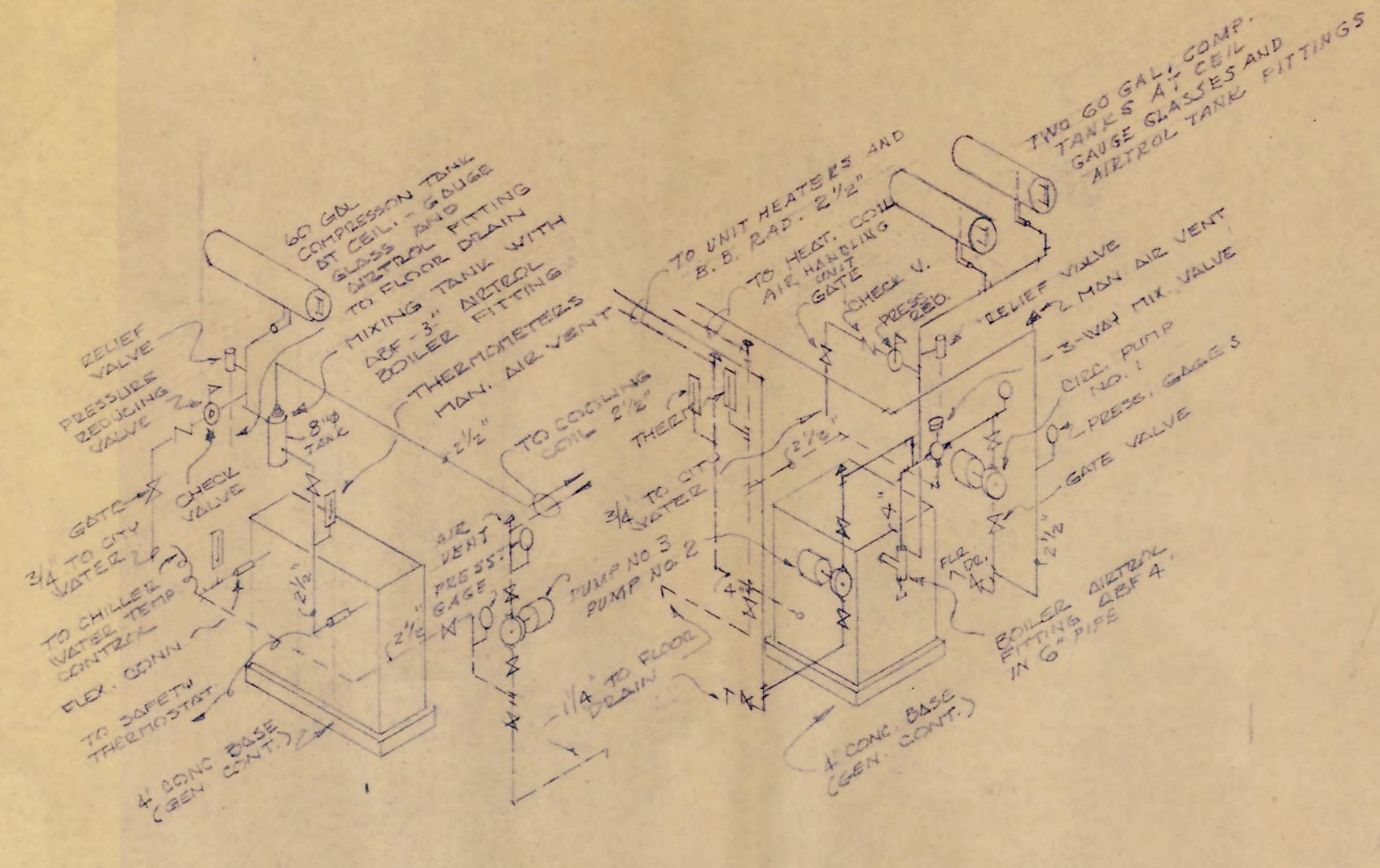
AIR HANDLING UNIT NIGHT CONTROL
NOT TO SCALE



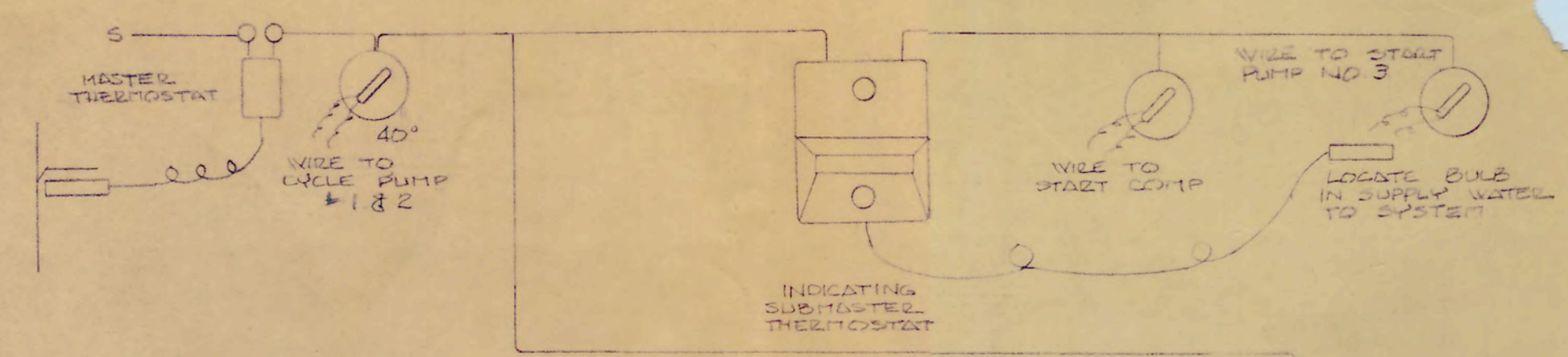
WATER COIL CONNECTIONS
NOT TO SCALE



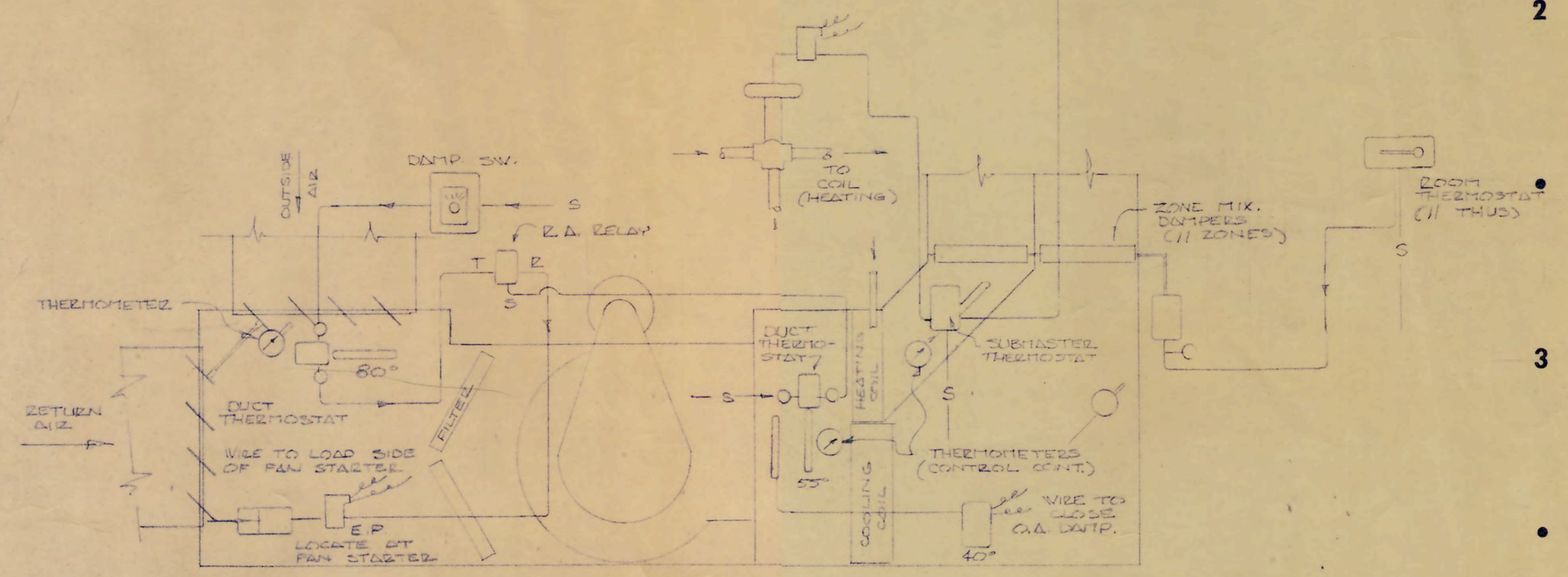
H.W. C.R.G. PUMP CONTROL
NOT TO SCALE



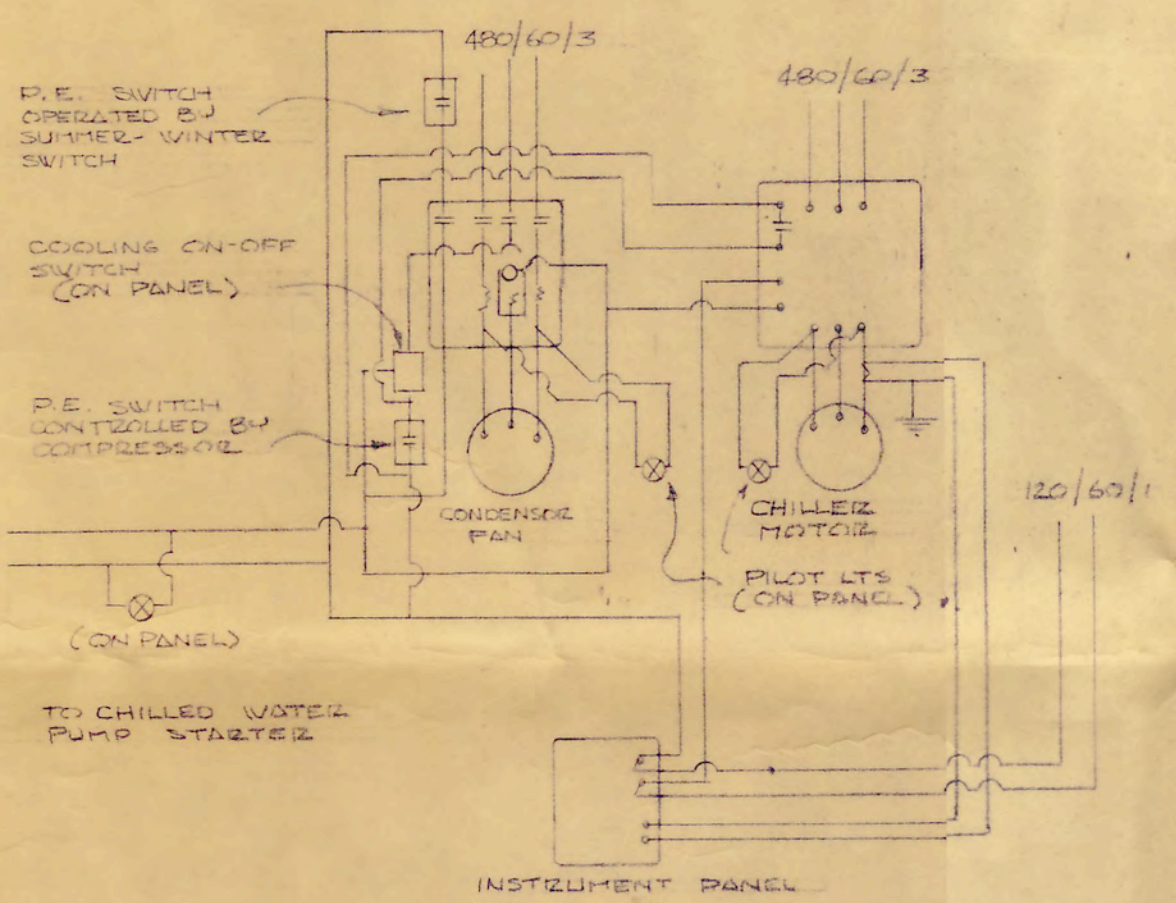
PIPING DIAGRAM
NOT TO SCALE



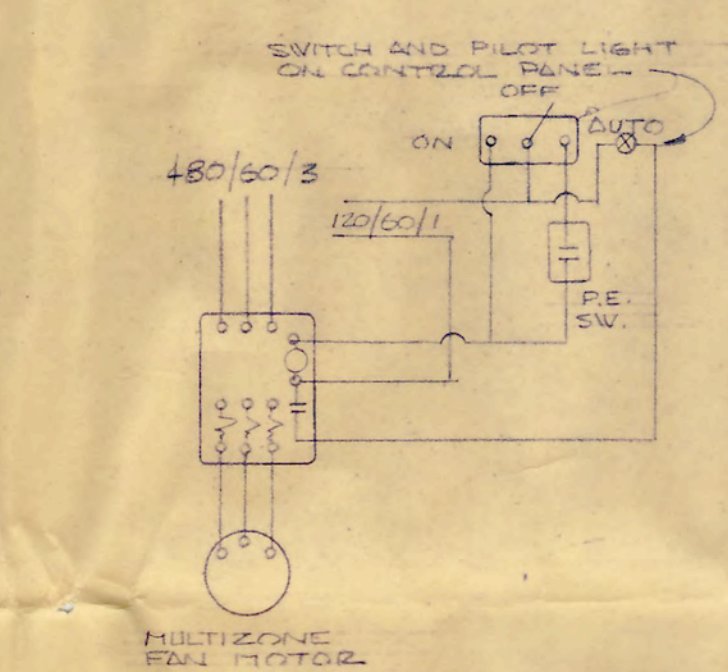
BOILER RESET CONTROL
NOT TO SCALE



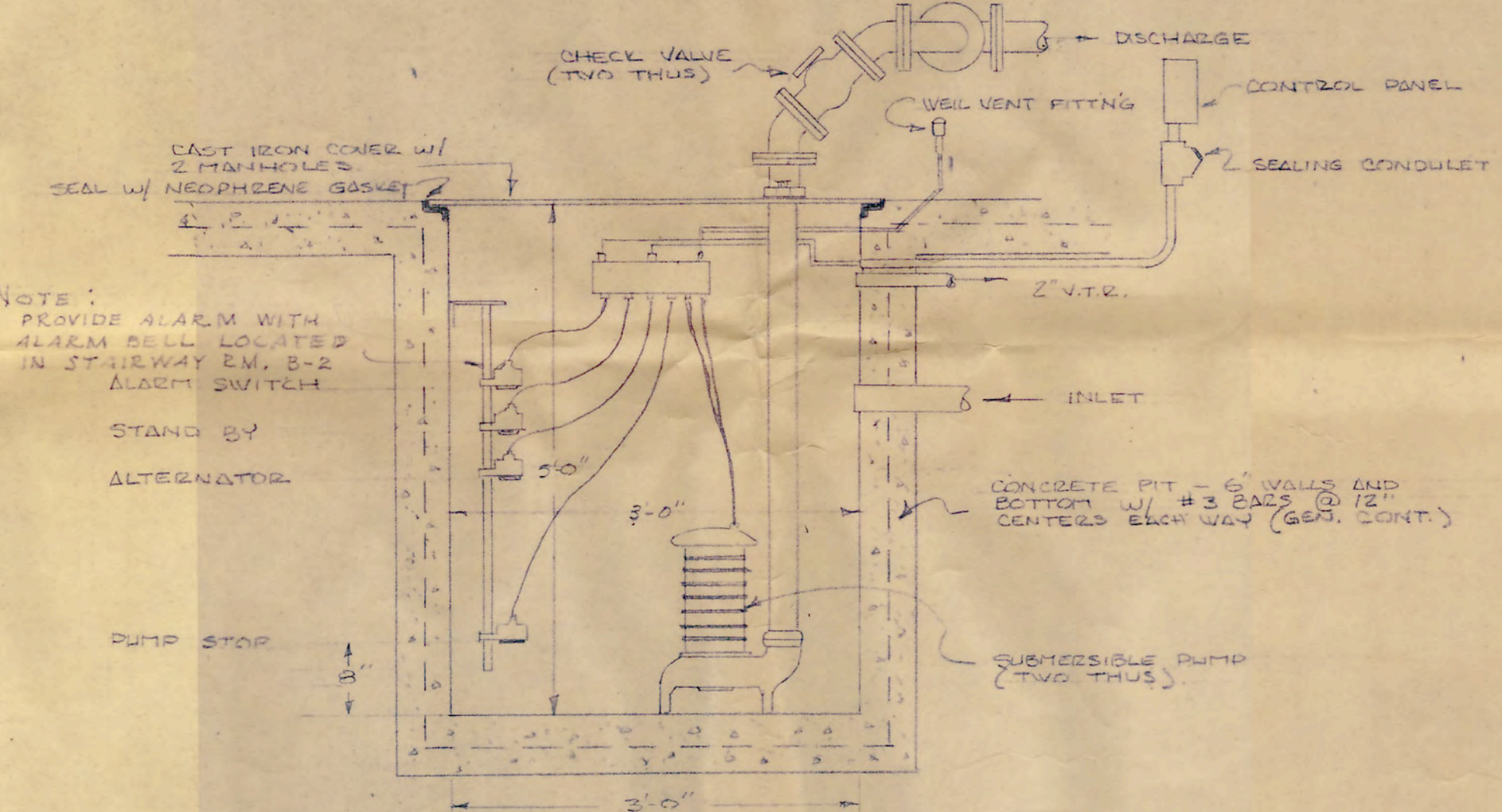
AIR HANDLING UNIT "B" CONTROL
NOT TO SCALE



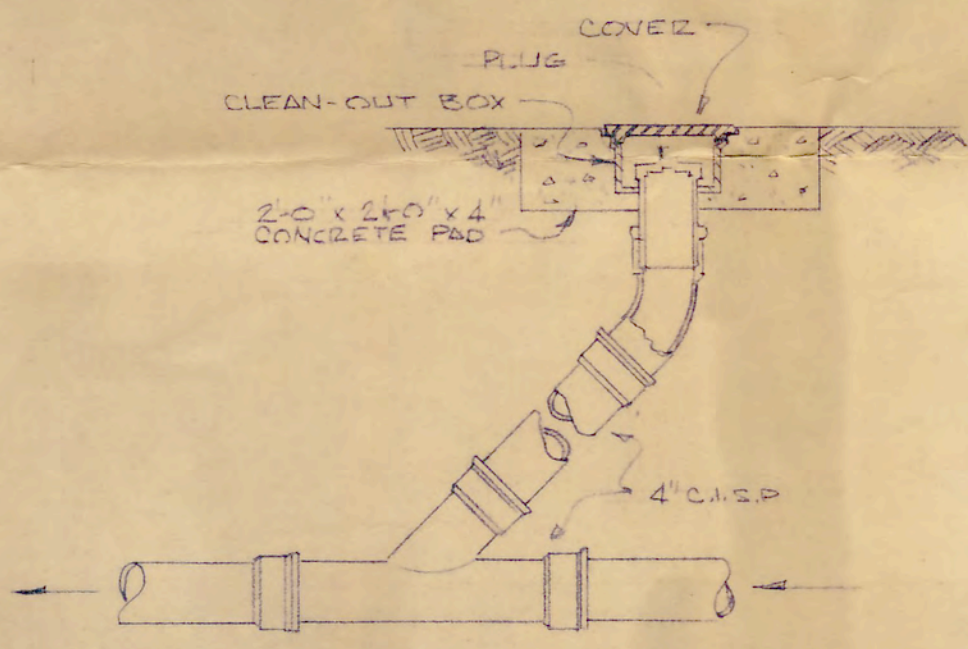
PUMP WIRING DIAGRAM
NOT TO SCALE



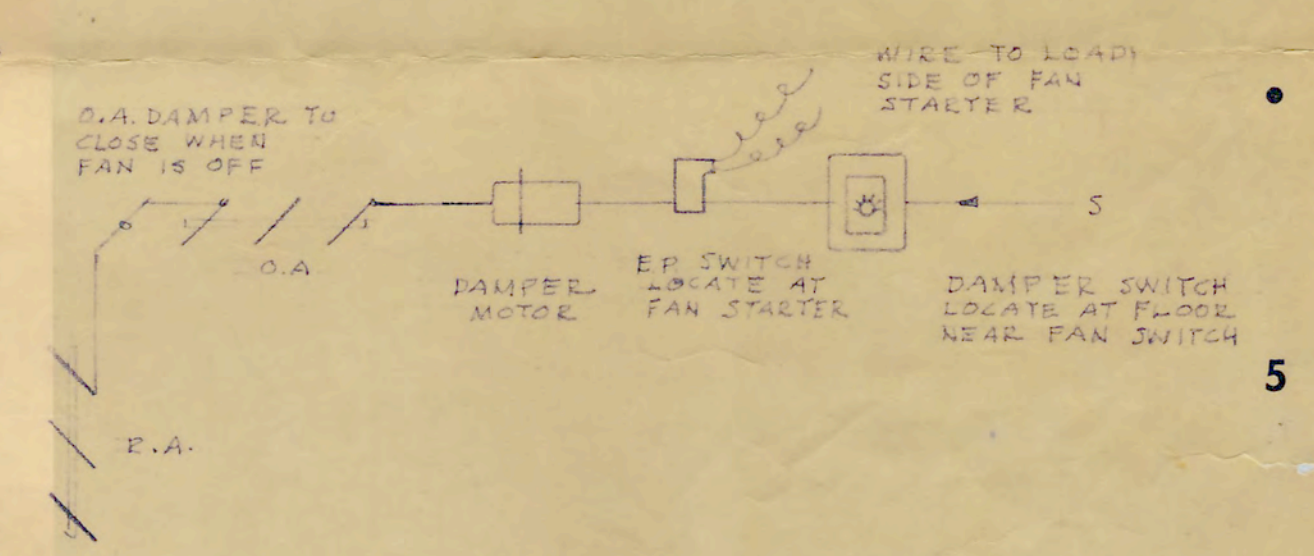
MULTIZONE FAN CONTROL
NOT TO SCALE



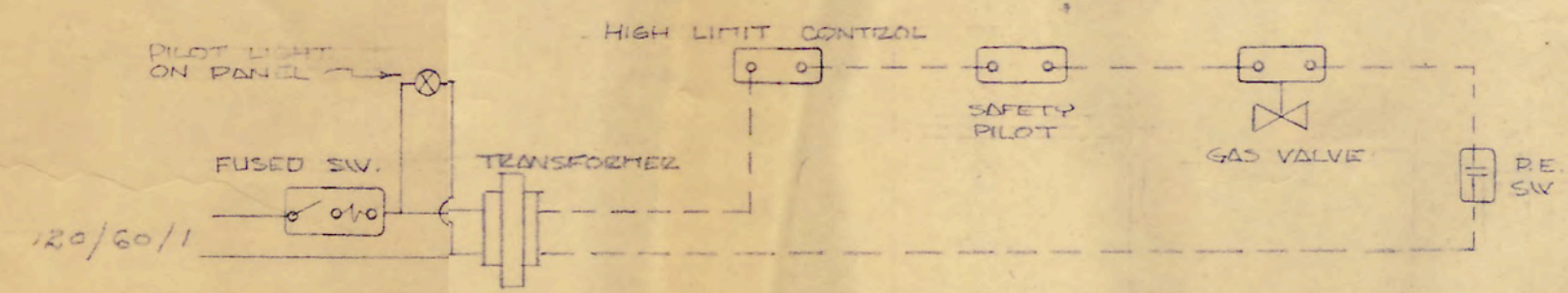
SUMP PUMP AND PIT DETAIL
NOT TO SCALE



CLEAN-OUT DETAIL
NOT TO SCALE



CONTROLS FOR A.S. UNIT "A"
NOT TO SCALE



BOILER CONTROL DIAGRAM
NOT TO SCALE

AIR HANDLING UNIT																														
LOCATION	UNIT "B"	MIXING BOX FILTERS	FILT. AREA	FILT. TYPE	CFM	S.P. NO.	DISCH. VELO. COLD DAMP.	MOTOR				COOLING COIL					HEATING COIL													
								HP	φ	V.	~	ENT. AIR	LEAV. AIR	FACE AREA	ROWS	TOTAL LOAD	ENT. AIR	LEAV. AIR	WATER TEMP	FACE AREA	TYPE	TOTAL LOAD	GPM							
21-B-4	BLOW-THRU MULTIZONE 290-105	YES	37.8	2 IN. T.A.	11,600	125	11	1000	5	3	480	60	86	69.5	62	60	23.2	4	14	373,000	45°	38	60°	123.6	200	137	17.9	HIGH 21SE	800,000	45

* ALSO "DRI-PAK" FILTERS - SEE SPEC.

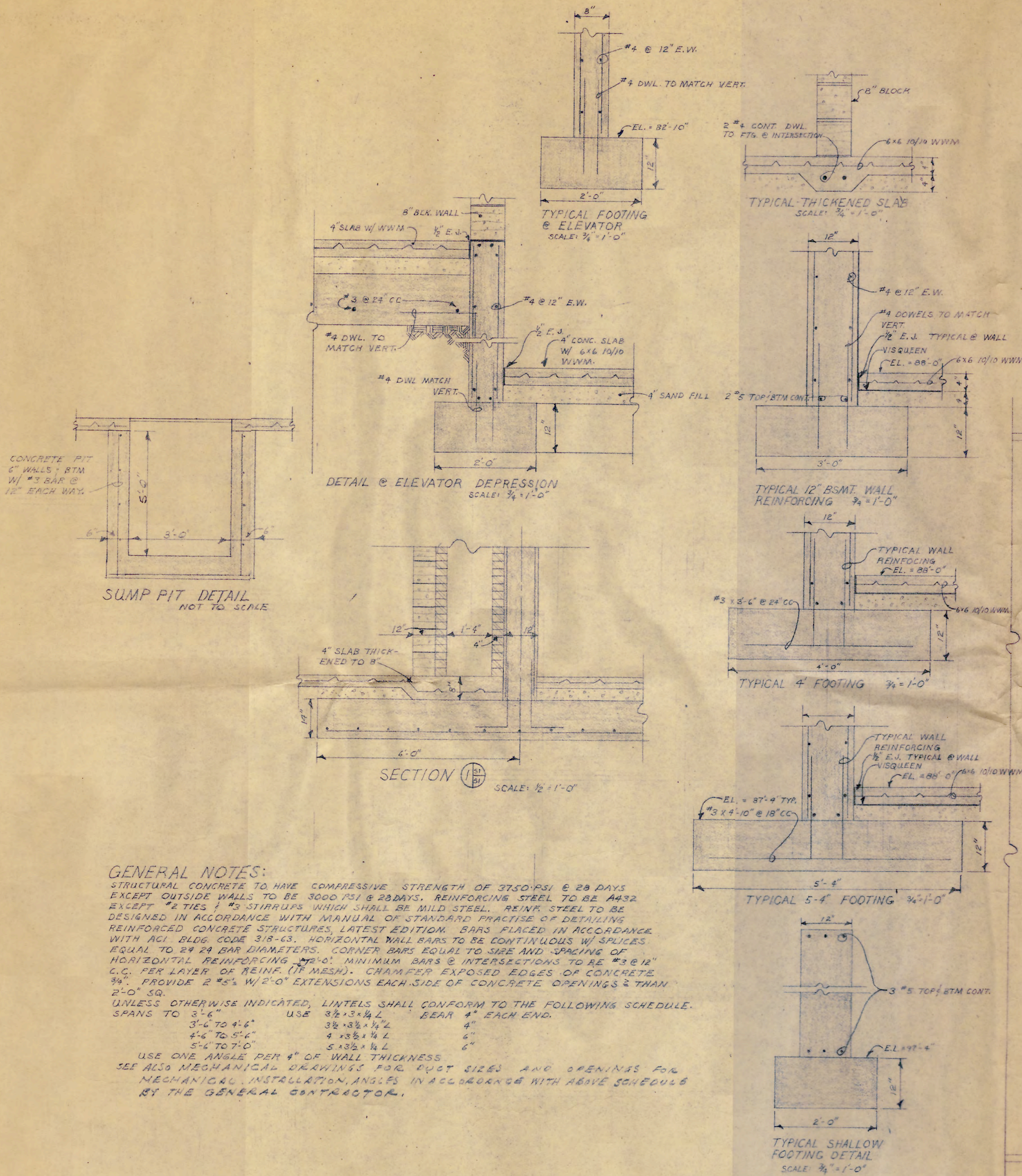
EXHAUST FAN SCHEDULE									
MAKE	CAT. NO.	ROOMS SERVED	CFM	S.P.	SPEED	CONTROL	ZPM	MOUNT'G	MOTOR
A	LA2166	PILOT PLANT	3500	0	2	SW/PLAT	1160	2/FLOOR	1/4 120/60/1
B	92CW	122	445	1/4	1	SW/PLAT	860	WALL	1/2 120/60/1
C	90CW	8-14	1250	1/8	2	SW/PLAT	1725	WALL	1/4 120/60/1
D	LA1224	112	975	1/8	2	SW/PLAT	1760	R.F. CURB	1/2 120/60/1

PUMP SCHEDULE									
PUMP NO.	SERVICE	GPM	TOTAL HEAD	MIN. HEAD	MOTOR	MAKE	SIZE AND TYPE		
1	HOT WATER CIRC.	45	12 1/2'	1/4"	120/60/1	B & G	2 1/2" BOOSTER		
2	HOT WATER CIRC.	47	12	1/4"	120/60/1	B & G	2 1/2" BOOSTER		
3	CHILLED WATER CIRC.	28	37'	3/4"	240/60/3	B & G	PD 37-T BOOSTER		

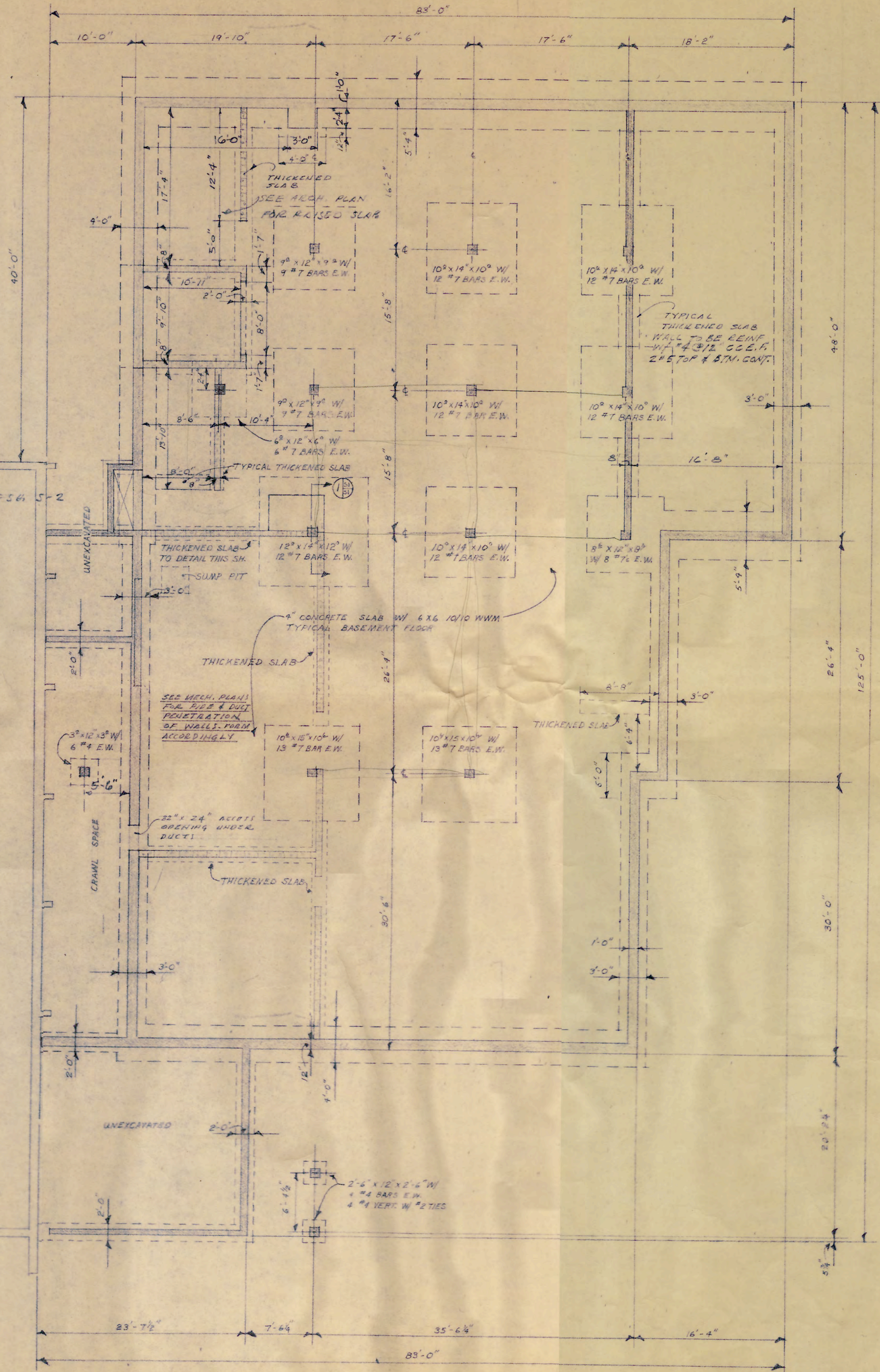
FAR-MAR CO., Inc. ADDITION

M3 OF 3

MILLER • HIETT • DRONBERGER • ARBUCKLE and WALKER
architects and engineers hutchinson, kansas.



GENERAL NOTES:
 STRUCTURAL CONCRETE TO HAVE COMPRESSIVE STRENGTH OF 3750 PSI @ 28 DAYS EXCEPT OUTSIDE WALLS TO BE 3000 PSI @ 28 DAYS. REINFORCING STEEL TO BE A432 EXCEPT #2 TIES & #3 STIRRUPS WHICH SHALL BE MILD STEEL. REINFR. STEEL TO BE DESIGNED IN ACCORDANCE WITH MANUAL OF STANDARD PRACTICE OF DETAILING REINFORCED CONCRETE STRUCTURES, LATEST EDITION. BARS PLACED IN ACCORDANCE WITH ACI BLDG. CODE 318-63. HORIZONTAL WALL BARS TO BE CONTINUOUS W/ SPICES. EQUAL TO 24 BAR DIAMETERS. CORNER BARS EQUAL TO SIZE AND SPACING OF HORIZONTAL REINFORCING @ 18". MINIMUM BARS @ INTERSECTIONS TO BE #3 @ 12" C.C. PER LAYER OF REINF. (OF MESH). CHAMFER EXPOSED EDGES OF CONCRETE 3/4". PROVIDE 2 #5 W/ 2'-0" EXTENSIONS EACH SIDE OF CONCRETE OPENINGS > 2'-0" SQ. UNLESS OTHERWISE INDICATED, LINTELS SHALL CONFORM TO THE FOLLOWING SCHEDULE:
 SPANS TO 3'-6" USE 3/2" x 3/4" L BEAR 4" EACH END.
 3'-6" TO 4'-6" 3/2" x 3/4" L 4"
 4'-6" TO 5'-6" 4" x 3/8" x 1/4" L 6"
 5'-6" TO 7'-0" 5" x 3/8" x 1/4" L 6"
 USE ONE ANGLE PER 4" OF WALL THICKNESS.
 SEE ALSO MECHANICAL DRAWINGS FOR DUCT SIZES AND OPENINGS FOR MECHANICAL INSTALLATION, ANGLES IN ACCORDANCE WITH ABOVE SCHEDULE BY THE GENERAL CONTRACTOR.



BASEMENT FRAMING PLAN SCALE 1/8" = 1'-0"

FAR MAR CO., Inc. ADDITION

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