

# Medical Research Fit-up and Security System

## UNIVERSITY OF KENTUCKY

### PROJECT NO. 747.3



**CHRISMAN • MILLER • WOODFORD , INC.**  
ARCHITECTURE ENGINEERING PLANNING INTERIORS LANDSCAPE ARCHITECTURE  
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RECORD DOCUMENTS

Medical Research Fit-up and Security System  
University of Kentucky Project No. 747.3

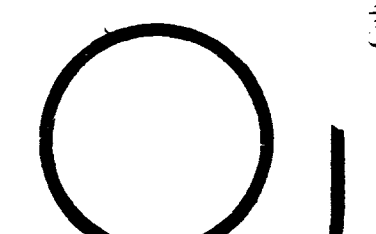
FAILURE TO ADHERE TO THESE INSTRUCTIONS MAY BE CAUSAL IN CONNECTION WITH THE DESIGN DOCUMENTS OR TO OBTAIN GUIDANCE

THE DESIGN PROFESSIONAL HAS REVIEWED THIS DOCUMENT FOR ACCURACY AND COMPLETENESS. THE DESIGN PROFESSIONAL'S LIABILITY IS LIMITED TO THE DESIGN DOCUMENTS AND DOES NOT EXTEND TO THE CONSTRUCTION OF THE PROJECT OR TO THE PERFORMANCE OF THE CONTRACTOR.

PROJECT NUMBER 90240.04

DATE 2 DEC. 1994

SET NUMBER



ORIGINAL AND DOCUMENT

Doc1

ELECTRICAL

CONDUITS, LIGHTING, ETC.

Table listing electrical symbols for conduits, lighting, transformers, outlets, switches, and starters.

NURSE CALL

Table listing electrical symbols for nurse call stations, duty stations, and patient bed stations.

RECEPTACLES (BOTTOM 16" A.F.F.)

Table listing electrical symbols for duplex, quadruplex, and isolated ground outlets.

COMMUNICATIONS (BOTTOM 16" A.F.F.)

Table listing electrical symbols for computer, telephone, and television outlets.

SOUND AND INTERCOM

Table listing electrical symbols for ceiling and wall mounted speakers, horns, and intercom stations.

FIRE ALARM

Table listing electrical symbols for supervised valves, fire alarm break-glass stations, and detectors.

WALL SWITCHES (BOTTOM 44" A.F.F.)

Table listing electrical symbols for single pole, double pole, and three-way wall switches.

CLOCK AND PROGRAM

Table listing electrical symbols for single and double face clocks and program bells.

ELECTRICAL ABBREVIATIONS

Table listing electrical abbreviations for A.F.F., A.T.C.P., C., F.A., G.F.I., IG, JB, T.T.C., R, W, and other terms.

NOTE: ALL DASHED DEVICES, OUTLETS, ETC., ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

MECHANICAL

PLUMBING LEGEND

Table listing mechanical symbols for plumbing, including sanitary, roof leader, storm sewer, and cold/hot water piping.

MEDICAL GAS LEGEND

Table listing mechanical symbols for medical gas piping, including oxygen, nitrous oxide, and nitrogen.

FIRE PROTECTION LEGEND

Table listing mechanical symbols for fire protection, including fire protection man, sprinkler branch piping, and various sprinkler heads.

H.V.A.C. LEGEND

Table listing mechanical symbols for H.V.A.C. components, including ducts, dampers, valves, and diffusers.

H.V.A.C. PIPING LEGEND

Table listing mechanical symbols for H.V.A.C. piping, including steam, condensate, and chilled water lines.

H.V.A.C. PIPE FITTINGS

Table listing mechanical symbols for H.V.A.C. pipe fittings, including gate valves, globe valves, check valves, and unions.

ABBREVIATIONS

Table listing abbreviations for plumbing and H.V.A.C. components.

SITE UTILITIES

SITE UTILITIES LEGEND

Table listing mechanical symbols for site utilities, including sanitary sewer, storm sewer, fire protection, and high pressure gas.

ELECTRICAL

Table listing electrical symbols for site utilities, including overhead electric, underground services, and lighting.

NOTE: THE SYMBOLS LISTED ON THIS SHEET MAY NOT ALL BE USED ON THE CONTRACT DRAWINGS, HOWEVER, WHEREVER A SYMBOL IS USED, THE ITEM SHALL BE FURNISHED AND INSTALLED.

SPECIAL SYMBOLS THIS PROJECT

Table listing special symbols for site utilities, plumbing, medical gas, fire protection, and H.V.A.C. for this project.

Vertical sidebar containing project title 'Medical Research Fit-up and Security System University of Kentucky Project No. 747.3', sheet number 'ME.0', and company logo 'CJM'.



MECHANICAL LEGEND
DUCTWORK
SUPPLY AIR, PLAN, UP & DOWN
RETURN, EXHAUST OR INTAKE AIR, PLAN, UP & DOWN

VALVES & ACCESSORIES
SHUT-OFF VALVE
SHUT-OFF VALVE WITH RECESSIBLE RECEPTACLE AND CLOCK SUPPORT
SHUT-OFF VALVE WITH RECESSIBLE RECEPTACLE AND CLOCK SUPPORT

ELECTRICAL LEGEND
BRANCH CIRCUIT CONDUIT HOOKUP TO PANELBOARD
CONDUIT 1/2" SHOWN AS CONCEALED OVERHEAD OR IN WALLS

ELECTRICAL LEGEND - EXTERIOR
EXISTING POLE
NEW POLE 30'-HEIGHT/CLASS
FUSED OUTLET

SITE
B.M. BENCH MARK
T.B. TEST BORING
F.H. FIRE HYDRANT

MATERIALS
EARTH
CRACKED STONE
CONCRETE

SYMBOLS
SECTION LETTER
SECTION OR DETAIL
SECTION OR DETAIL

ABBREVIATIONS
A ARCH
AT ARCH TRUSS
ACC ACCESSORY

GENERAL NOTES
DIMENSIONS: ALL DIMENSIONS ARE TO FACE OF STUD, FACE OF BOARD, FACE OF THE CLAS OR TO THE CENTERLINE OF STRUCTURAL STEEL UNLESS OTHERWISE NOTED.

GENERAL INFORMATION
PROJECT TITLE
DATE
DRAWN BY

SHEET NUMBER
DIVISION NO.
DIVISION

ABBREVIATIONS
B BOARD
BTY BETWEEN
BYE BYPASS

ABBREVIATIONS
C CANTILEVER
CAN CANOPY
C.B. CATCH BASIN

ABBREVIATIONS
D DOUBLE
DEP DEPRESSURE
DET DETECTOR

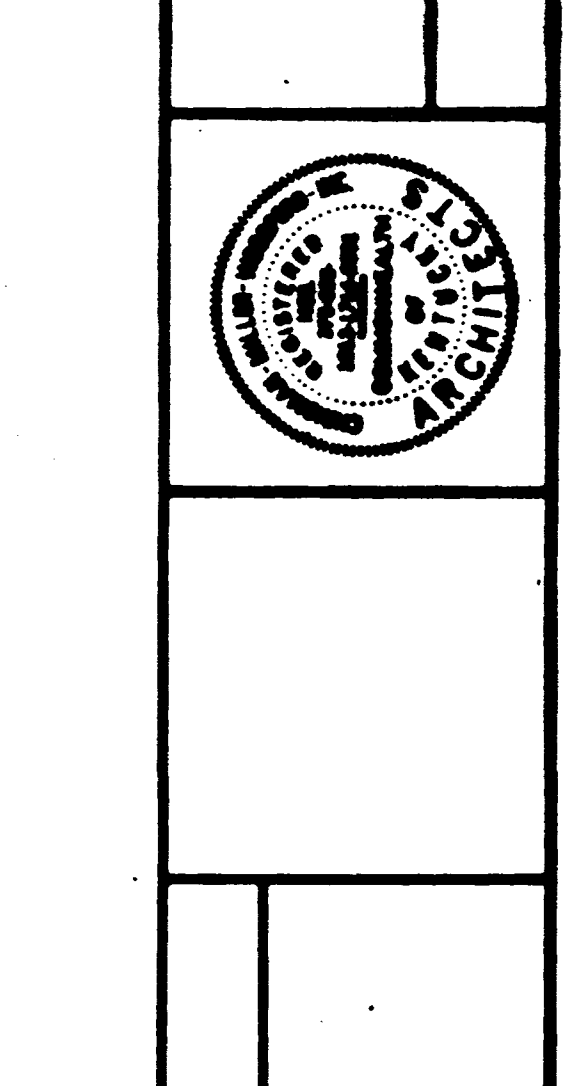
ABBREVIATIONS
E EACH
E.F. EXPANSION JOINT
E.L. ELECTRICAL

ABBREVIATIONS
F FORCED AIR
FAB FABRICATE
FC FIRE CODE

ABBREVIATIONS
G GAGE
GALV GALVANIZED
G.C.B. GALVANIZED CONCRETE BLOCK

ABBREVIATIONS
H HIGH
H.B. HOLLOW CORE
H.C. HOLLOW CORE

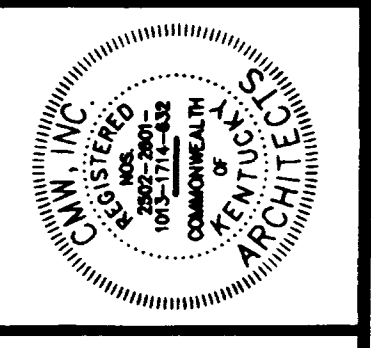
ABBREVIATIONS
I INSULATION
I.C. INSULATED CONCRETE
I.F. INSULATED FLOOR



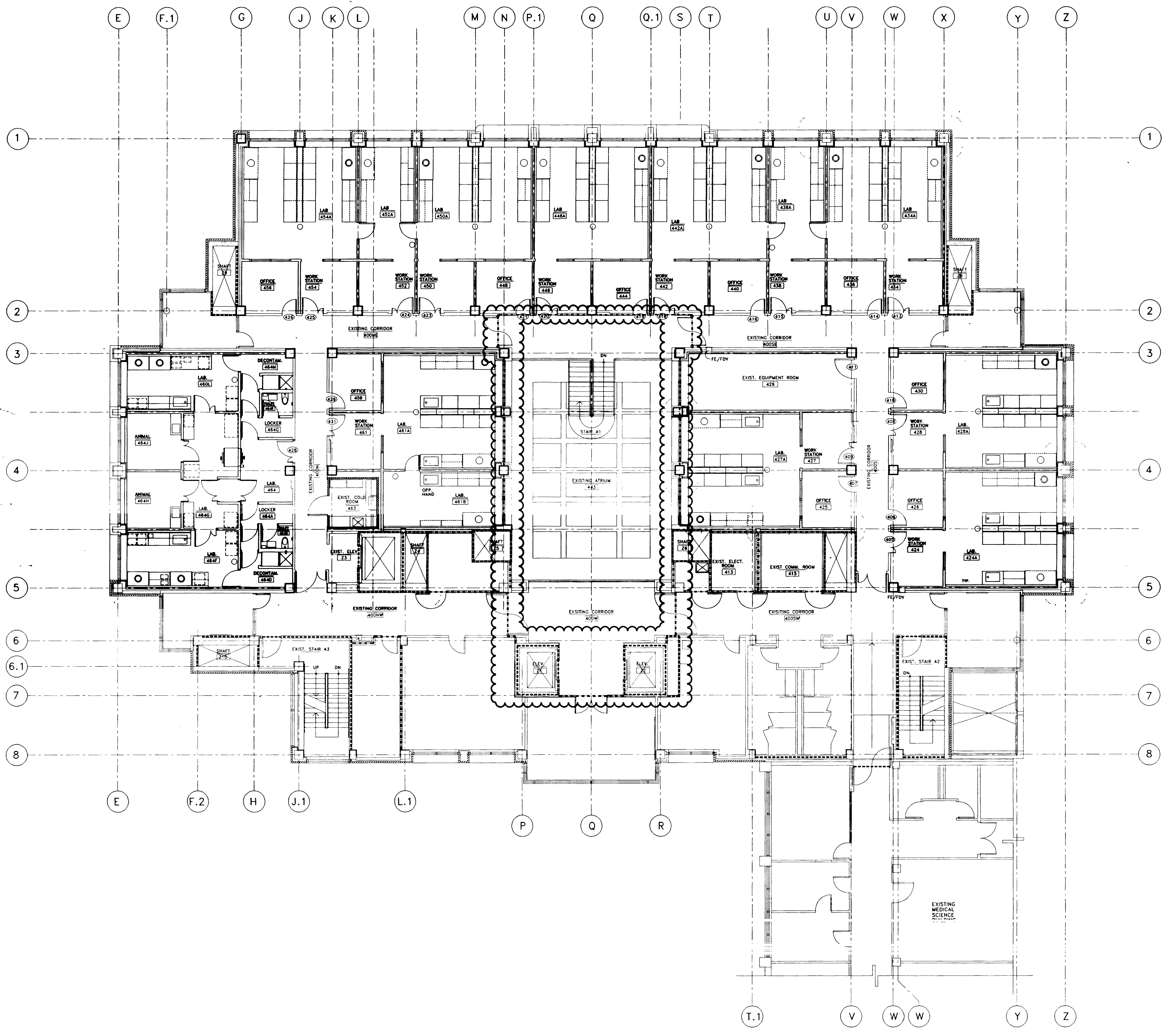
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PROJECT TITLE
DATE
DRAWN BY

SHEET NUMBER
DIVISION NO.
DIVISION

1.1
PROJECT NUMBER



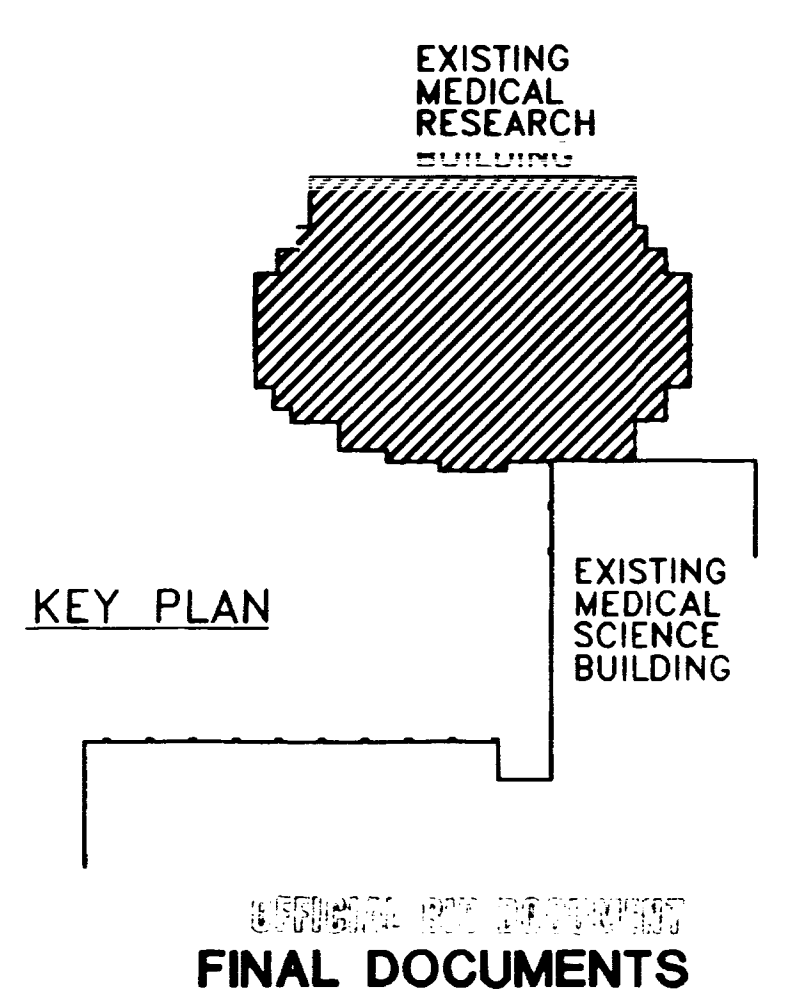
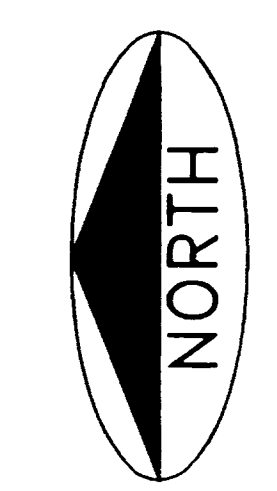
CALLERS TO ARRIVE BY DESIGN TO OBTAIN QUOTE TO OBTAIN QUOTE



**LEGEND**

- 1 HOUR FIRE RATED PARTITION
- 2 HOUR FIRE RATED PARTITION
- ☁️ SMOKE PARTITION

LIFE SAFETY PLAN - FOURTH FLOOR  
SCALE: 1/8" = 1'-0"

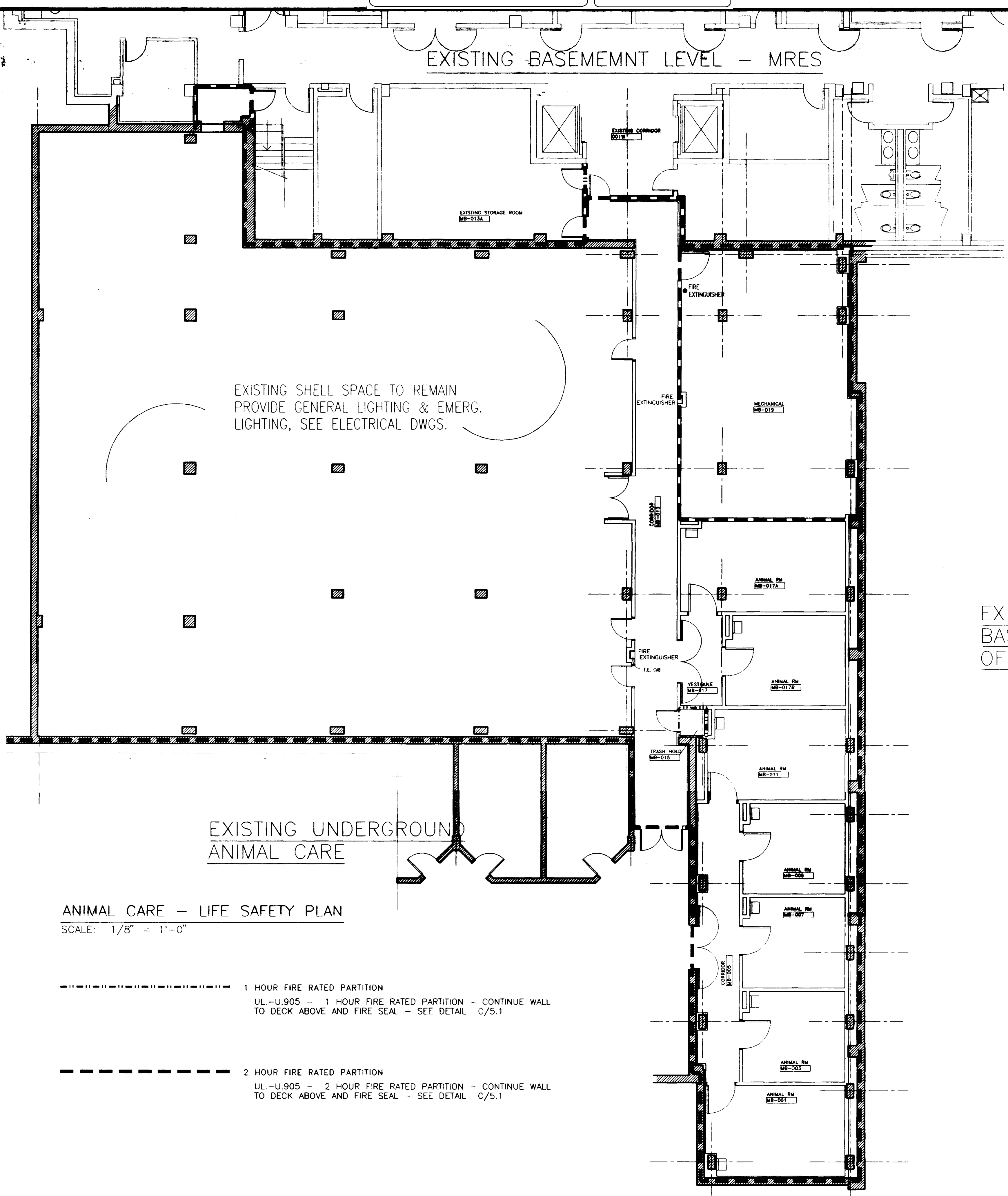


Life Safety Plan - Fourth Floor  
Medical Research Fit-up and Security System  
University of Kentucky  
Project No. 747.3

SHT.	PROJECT TITLE
DATE	DEC. 1994
DRAWN BY	JR. BCJ
CHECKED BY	JR. DW
REVISION	
DATE	1
	2
	3
	4
SHEET NUMBER	
1.2	
PROJECT NUMBER	
90240.04	

FINAL DOCUMENTS



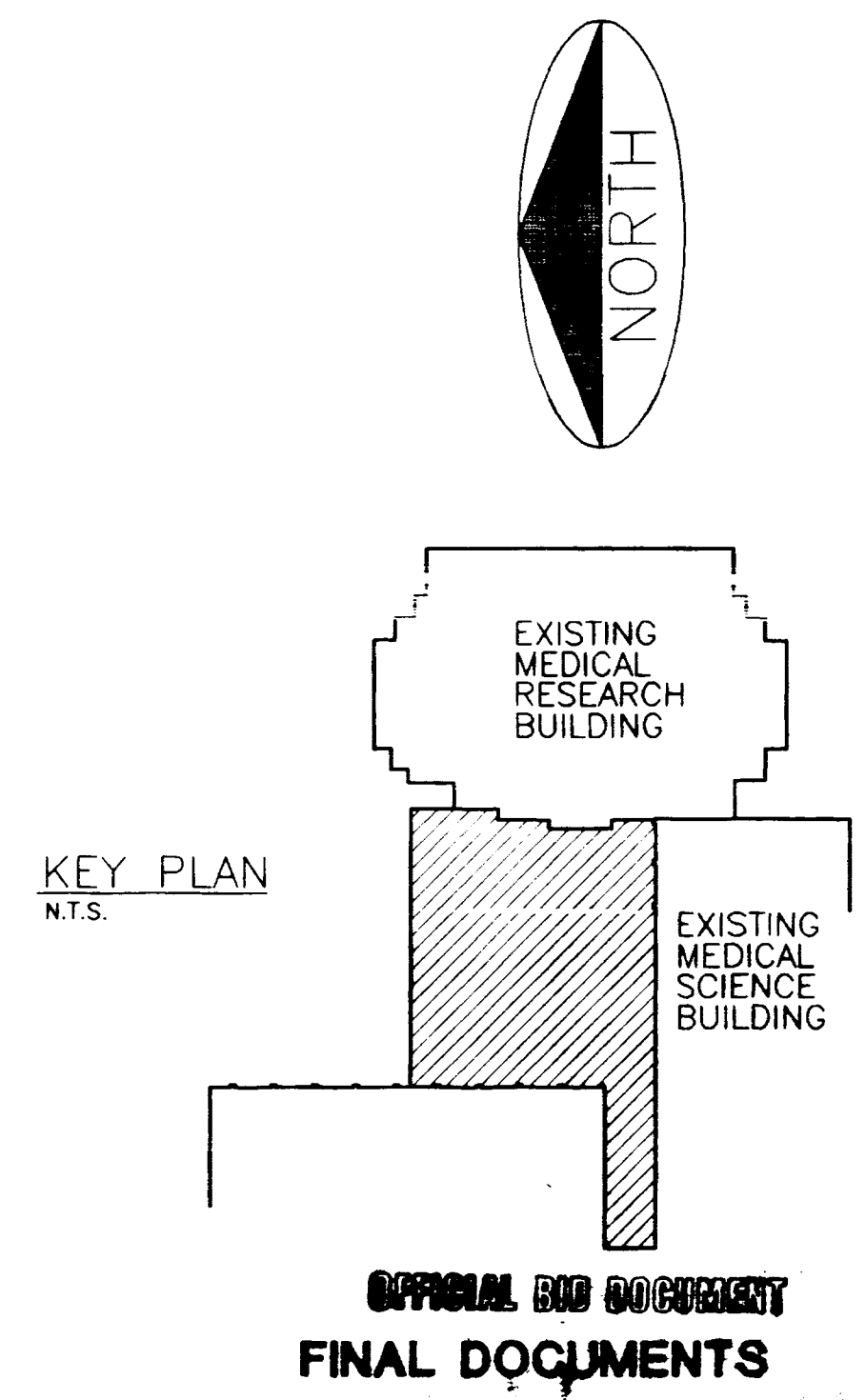


EXISTING BASEMENT LEVEL OF MEDICAL SCIENCE

EXISTING UNDERGROUND ANIMAL CARE

ANIMAL CARE - LIFE SAFETY PLAN  
SCALE: 1/8" = 1'-0"

- 1 HOUR FIRE RATED PARTITION  
UL-U.905 - 1 HOUR FIRE RATED PARTITION - CONTINUE WALL TO DECK ABOVE AND FIRE SEAL - SEE DETAIL C/5.1
- 2 HOUR FIRE RATED PARTITION  
UL-U.905 - 2 HOUR FIRE RATED PARTITION - CONTINUE WALL TO DECK ABOVE AND FIRE SEAL - SEE DETAIL C/5.1



KEY PLAN  
N.T.S.

**CMAA**  
CONSTRUCTION MANAGEMENT ASSOCIATION OF AMERICA

OFFICIAL DOCUMENTS

Life Safety Plan - Animal Care Facility  
Medical Research Fit-up and Security System  
University of Kentucky  
Project No. 747.3

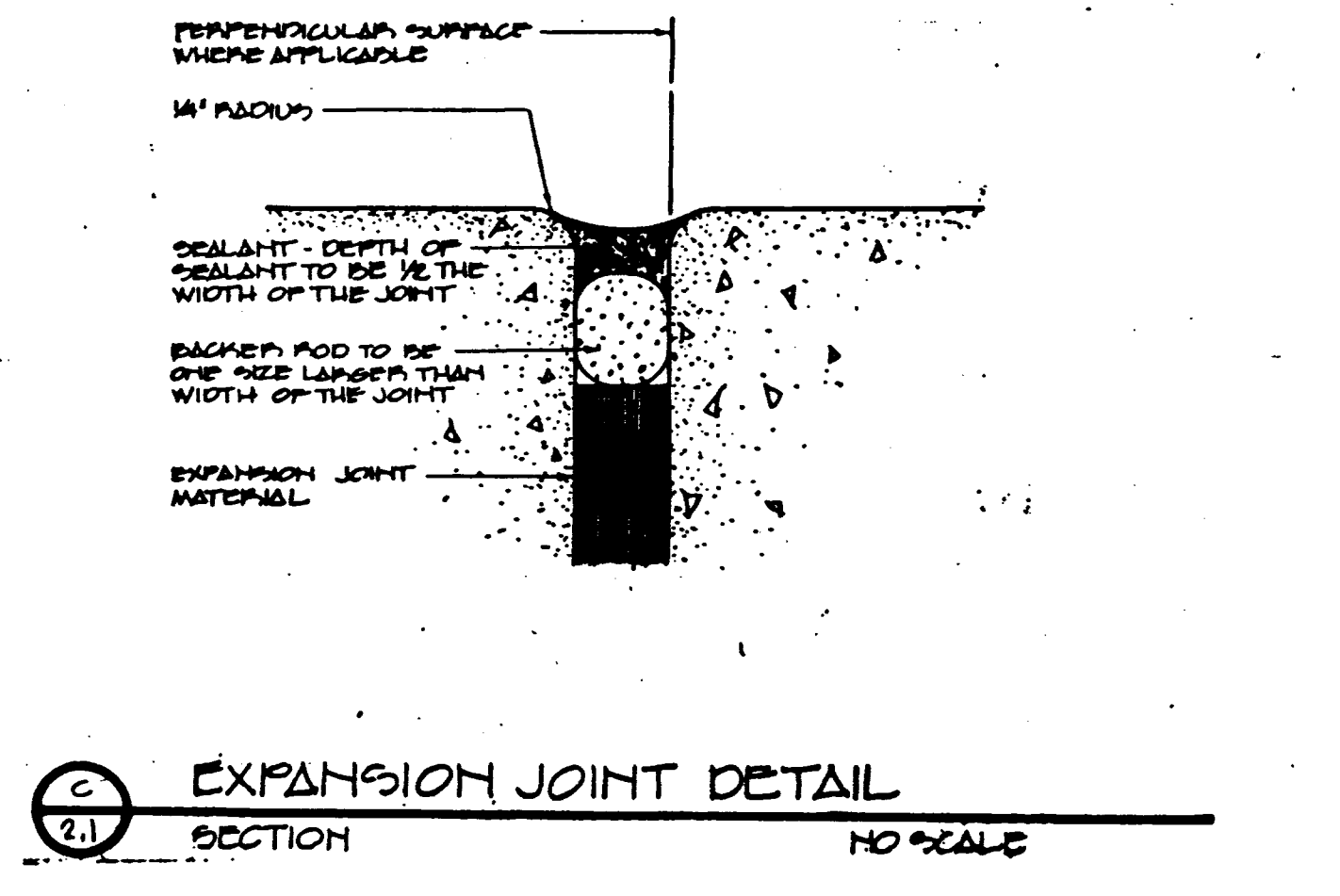
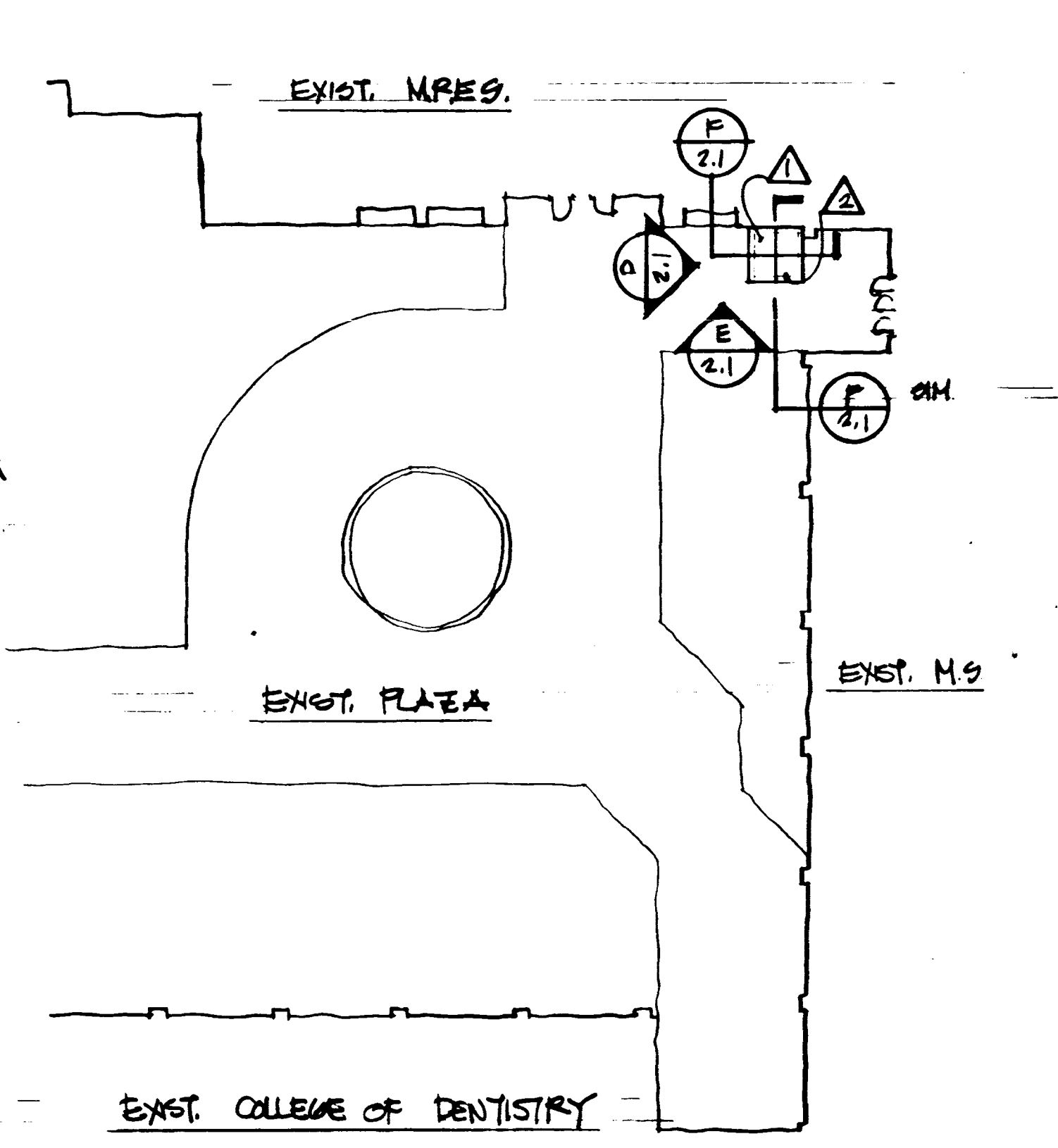
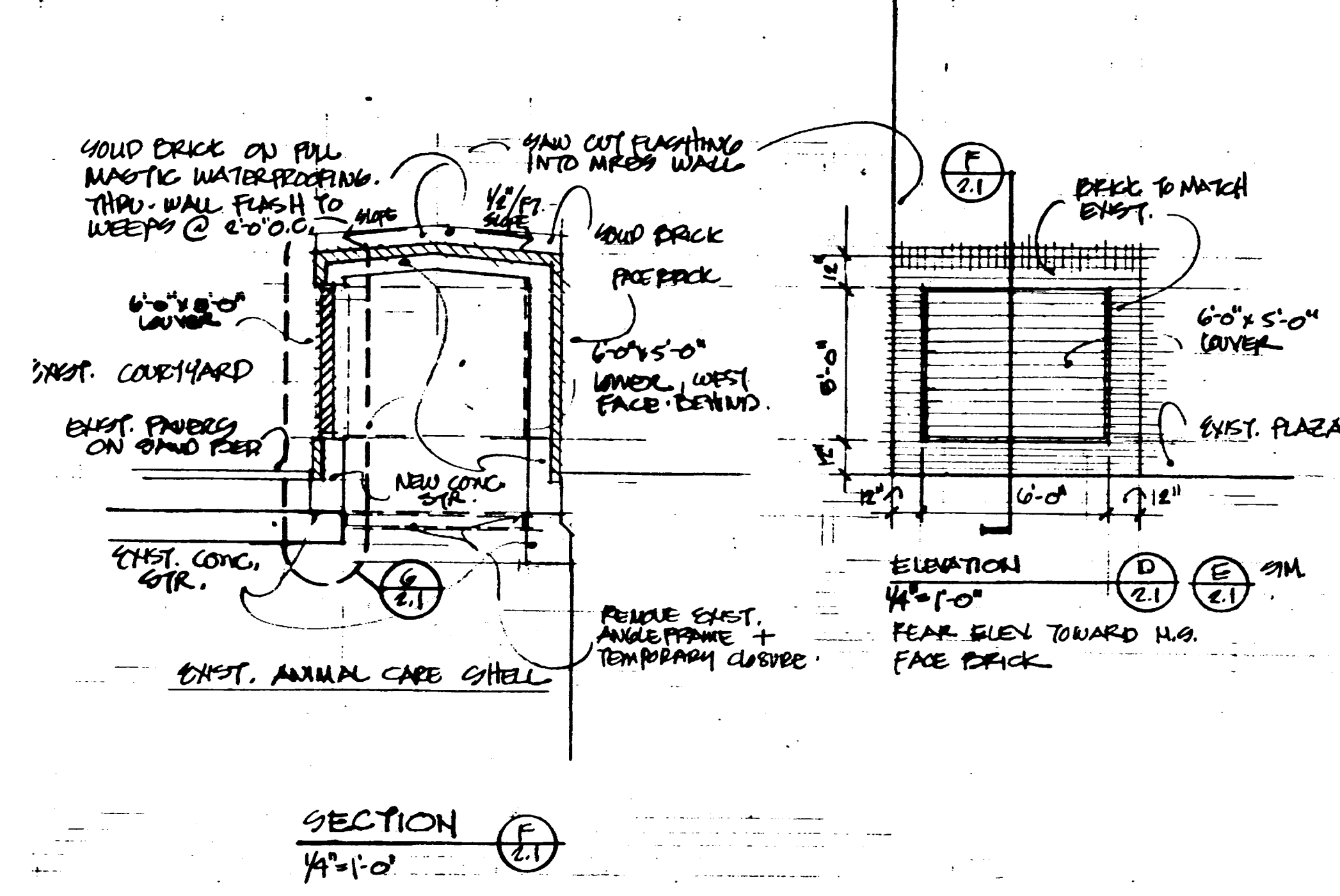
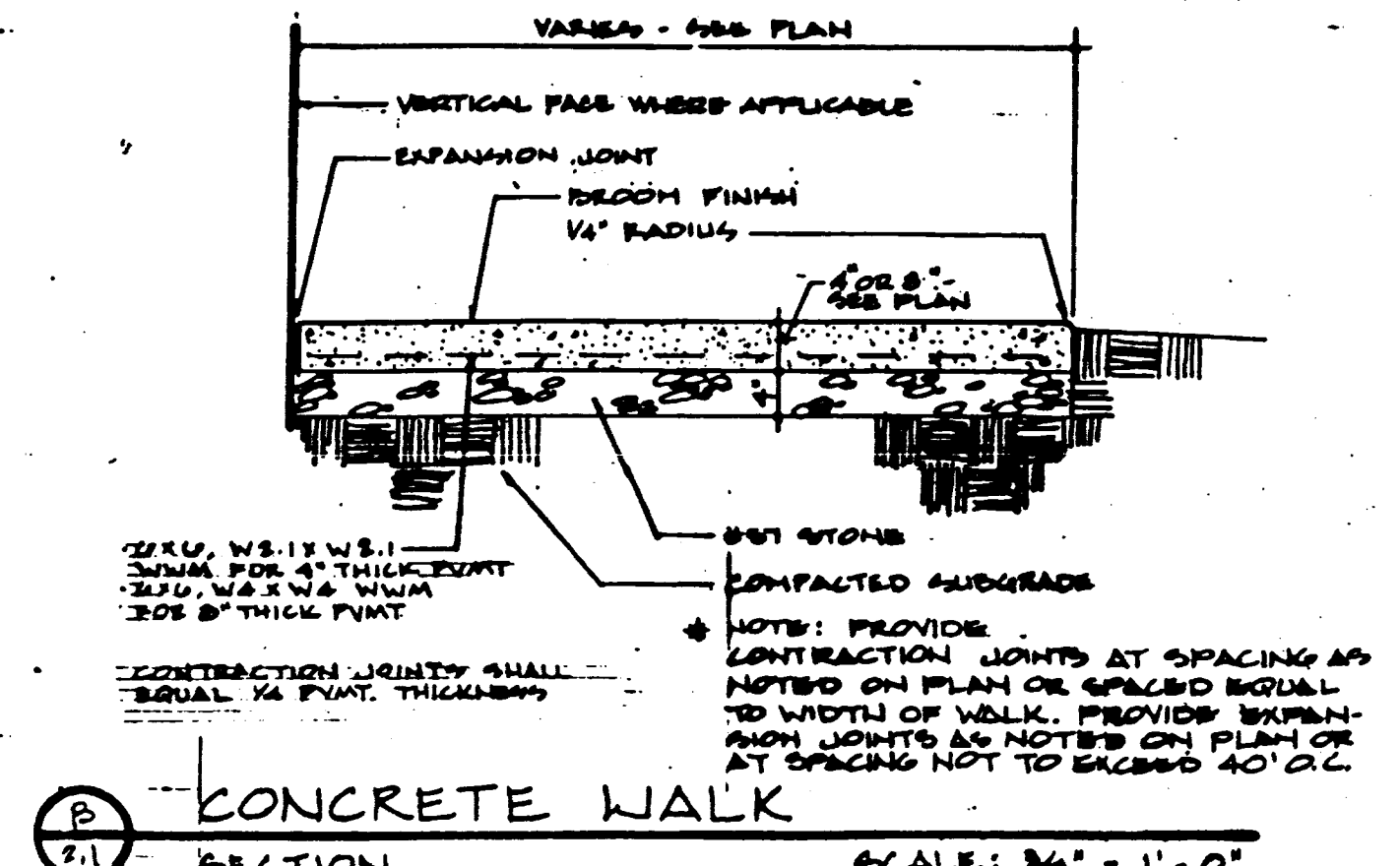
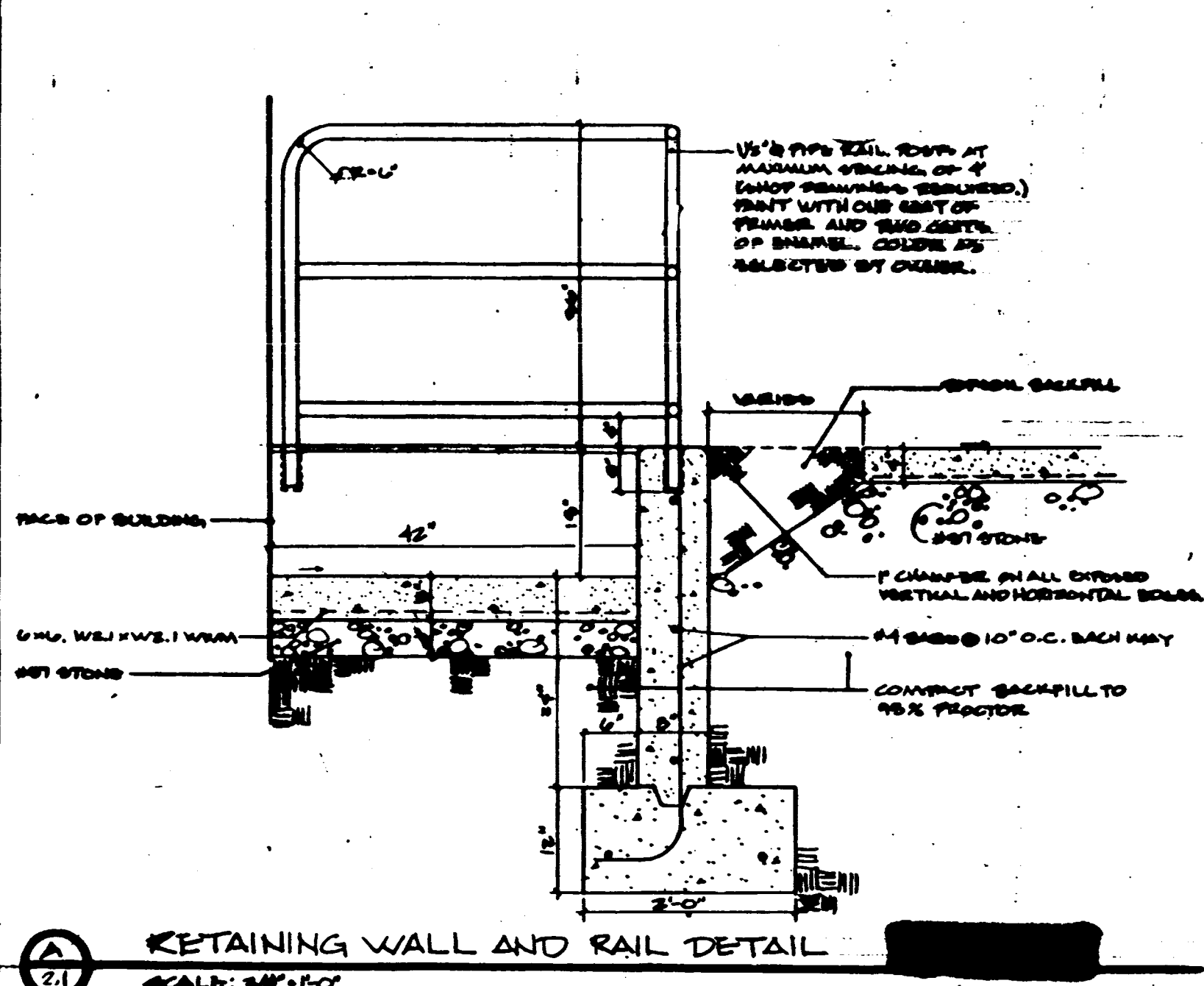
SHT. PROJECT TITLE

DATE: DEC. 1994  
DRAWN BY: JB, BCJ  
CHECKED BY: JB, DW  
REVISED:  
DATE: 1  
2  
3  
4

SHEET NUMBER  
**1.3**

PROJECT NUMBER  
90840.04

NOV 30, 1994 - 10:20:19



RETAINING WALL AND RAIL DETAIL  
SCALE: 3/4" = 1'-0"

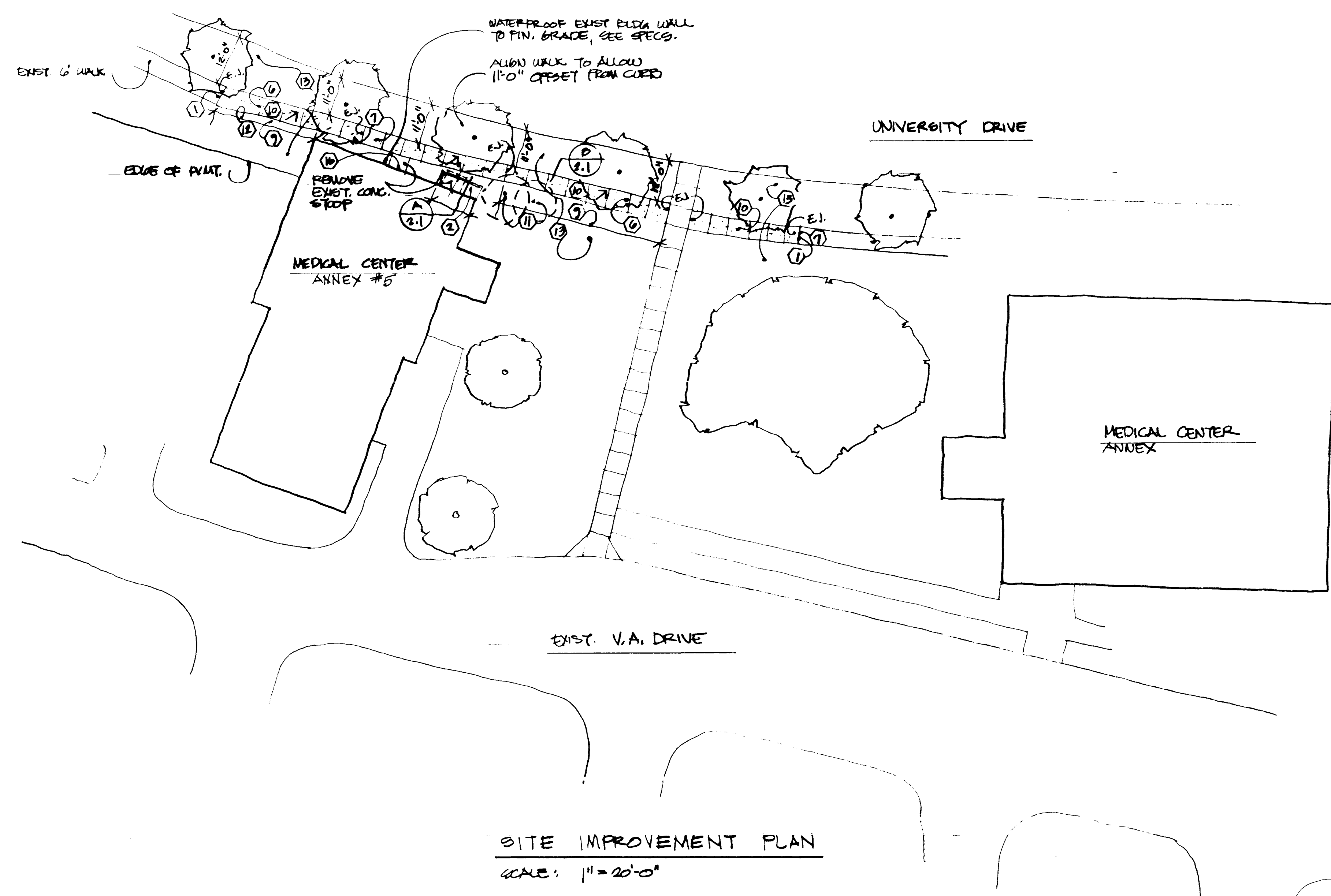
CONCRETE WALK  
SECTION  
SCALE: 3/4" = 1'-0"

SECTION  
1/4" = 1'-0"

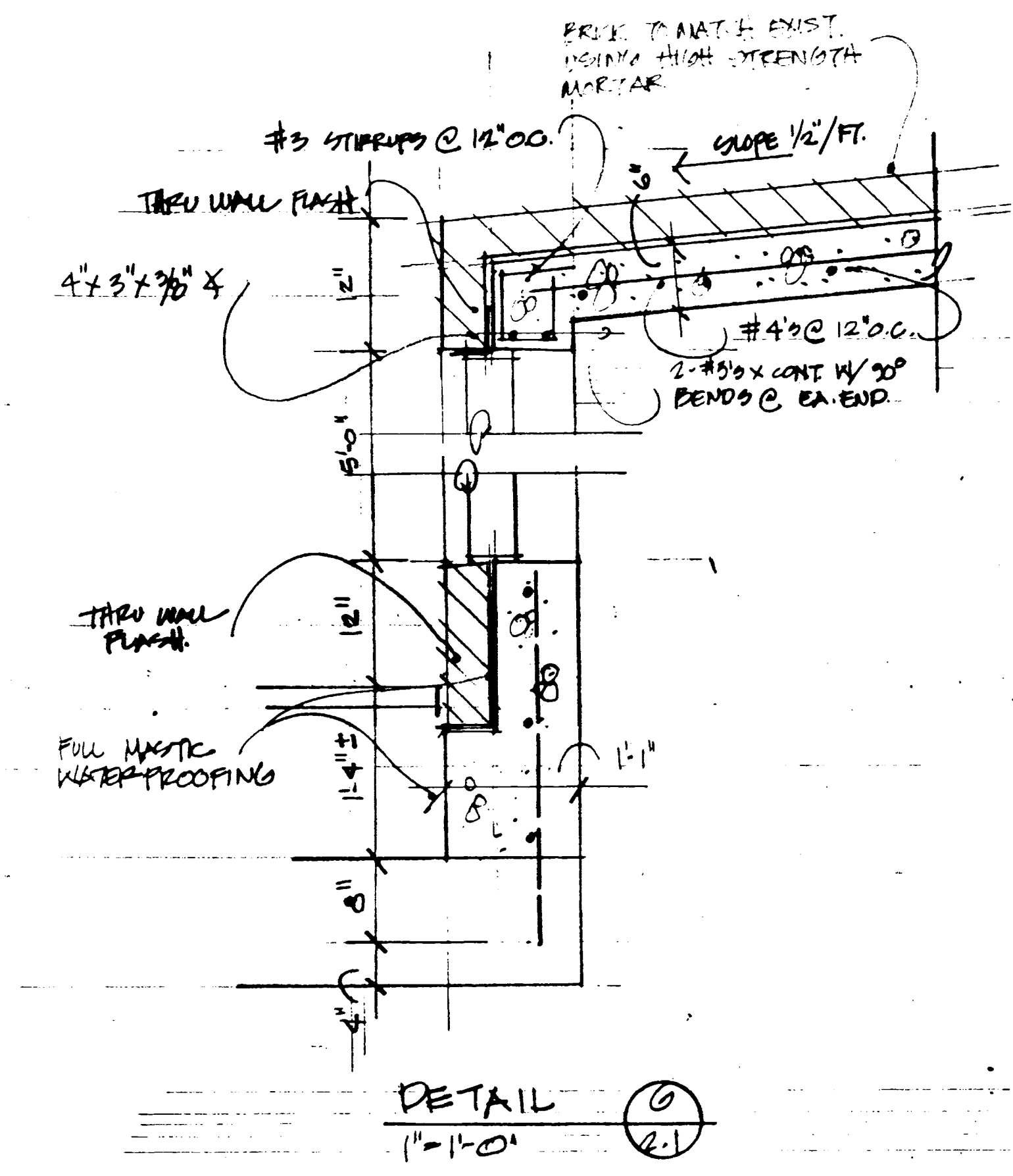
COURTYARD PLAN  
SCALE: 1" = 20'-0"

SITE IMPROVEMENT NOTES

1. MEET AND MATCH EXISTING GRADE AND WIDTH.
2. RAMP SLAB UP TO GRADE.
3. NOT USED
4. NOT USED
5. NOT USED
6. NOT USED
7. INSTALL TOOLED JOINTS AT 6'0" OC TO MATCH EXISTING WALK
8. FINISH WALK SURFACE TO MATCH EXISTING.
9. SAW CUT PAVEMENT PRIOR TO REMOVAL.
10. TAPER WALK WIDTH FROM 5'0" TO 6'0" AND ANGLE ALIGNMENT, SO WALK OFFSET FROM CURB TAPERS FROM 11'0" TO 12'0". IN THE DISTANCE SHOWN. STAKE ALIGNMENT IN FIELD FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO FINAL FORMING.
11. 1/4" PER FOOT CROSS SLOPE ON WALK.
12. REMOVE EXISTING TREE.
13. CONSTRUCT 5'0" EARTH SHOULDER (SLOPE AWAY FROM WALK AT 1/2" PER FOOT) ON OUTER SIDE OF WALK, THEN SLOPE DOWN TO EXISTING GRADE AT A SLOPE OF 4:1 MAXIMUM.
14. SOD ALL DISTURBED AREAS.
15. NOT USED
16. NOT USED
17. CLOSE EXISTING DOOR OPENING WITH MASONRY TO MATCH EXISTING. HOLD BRICK BACK 1" FROM FACE OF EXISTING WALL. BACK BRICK UP WITH CONCRETE BLOCK. FINISH INTERIOR TO MATCH EXISTING.

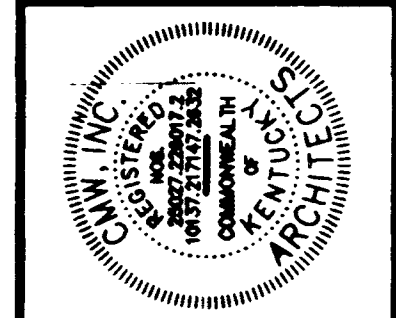


SITE IMPROVEMENT PLAN  
SCALE: 1" = 20'-0"



DETAIL  
1" = 1'-0"

**CJM**  
CHERRYMAN WOODFORD INC.  
ARCHITECTURAL FIRM  
1000 UNIVERSITY BLVD  
SUITE 100  
LEXINGTON, KY 40502

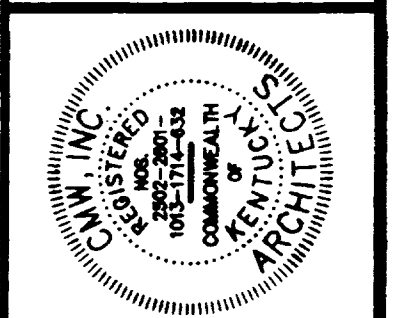


SCALE TO BE USED BY ALL SUBMITTALS TO OBTAIN GUIDANCE  
SEE PROJECT MANUAL FOR COMPLETE WORDS AND SYMBOLS  
DATE: 12/1/94  
DRAWN BY: J.B. B.C.J.  
CHECKED BY: J.B. DW  
REVISIONS:  
DATE: 1  
2  
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4

Site Improvements  
**Medical Research Fit-up and Security System**  
University of Kentucky  
Project No. 747.3

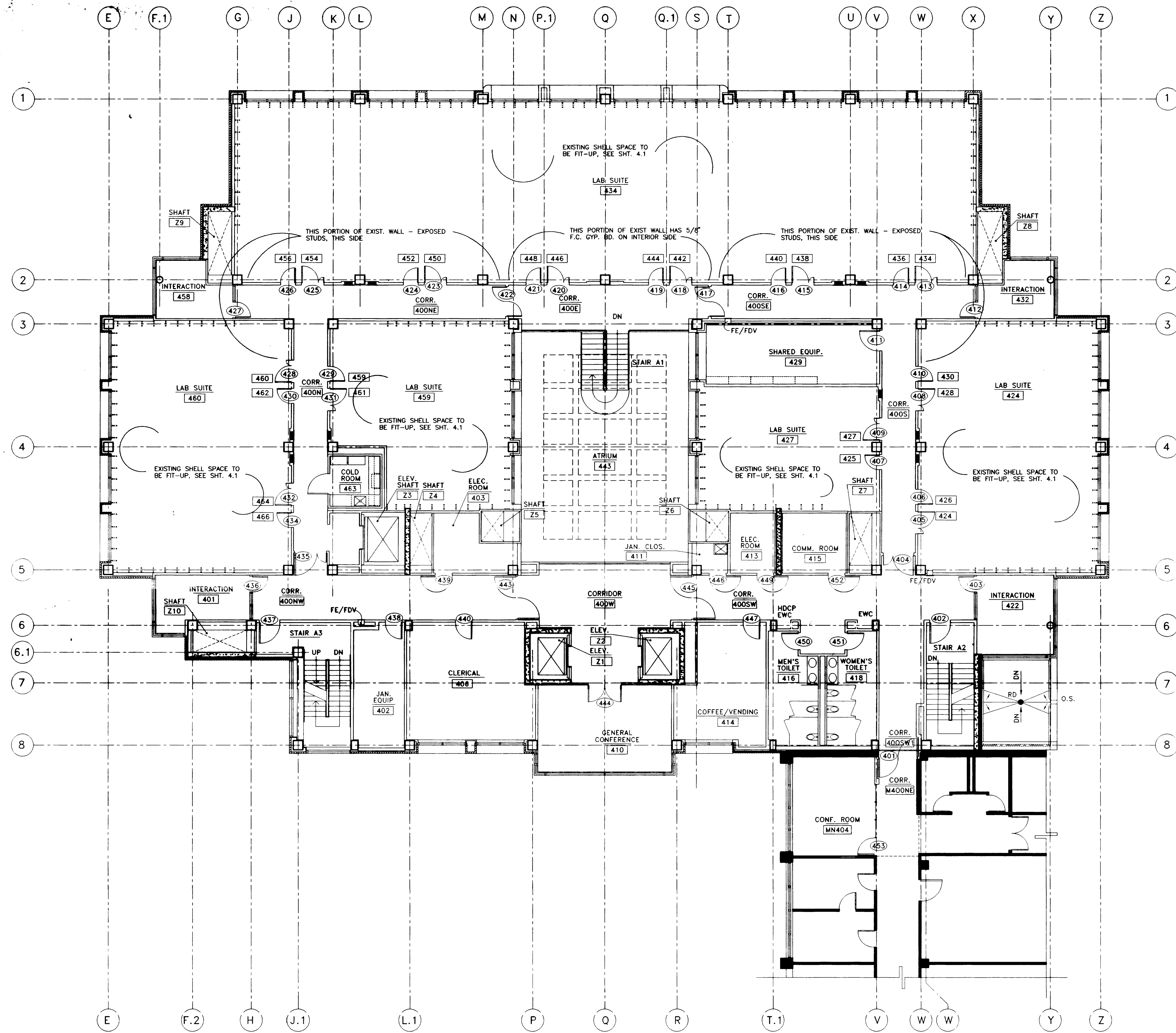
DATE	DEC. 1994
DRAWN BY	J.B. B.C.J.
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REVISIONS	
DATE	1
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SHEET NUMBER	2.1
PROJECT NUMBER	90240.04



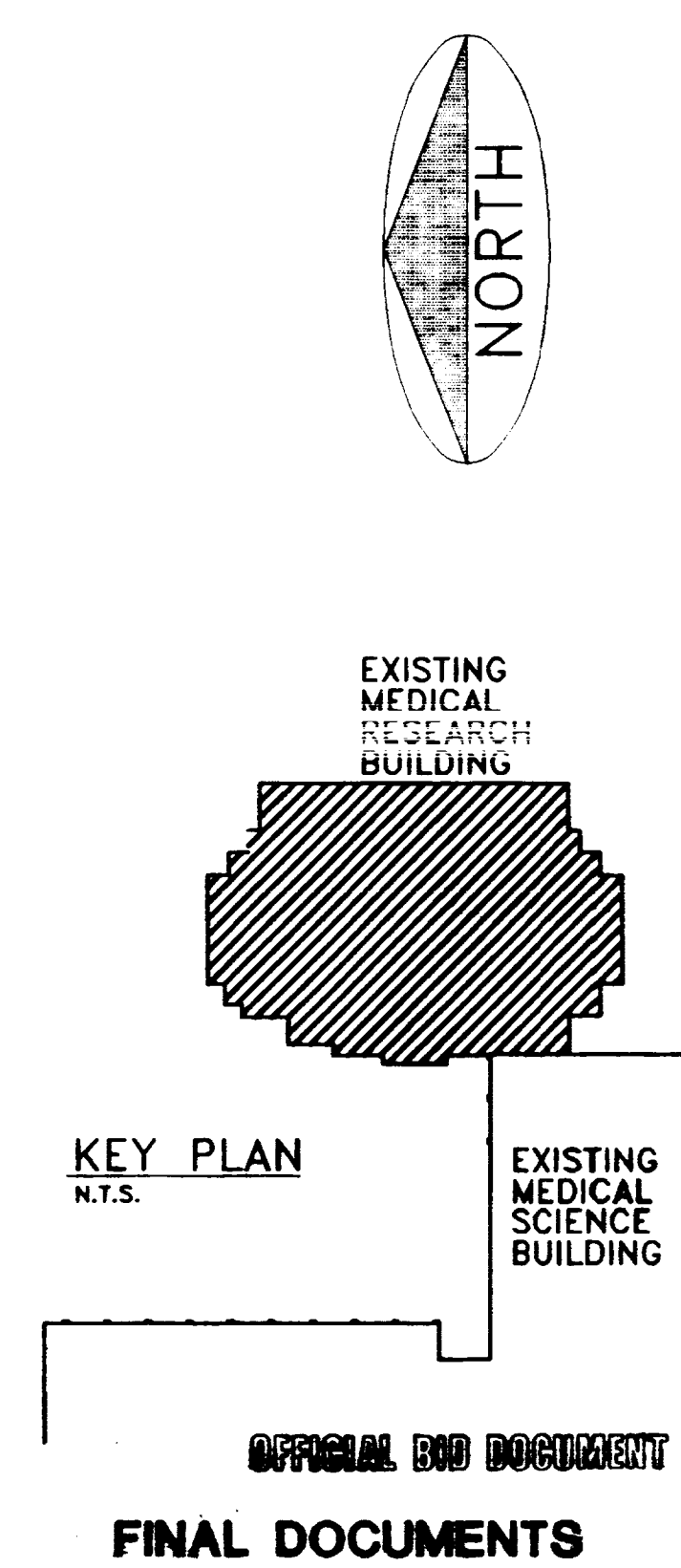


FAILURE TO ADHERE TO THESE DOCUMENTS BY ANY MEANS SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO CMM.

Fourth Floor Plan - Existing Shell Plan  
Medical Research Fit-up and Security System  
University of Kentucky  
Project No. 747.3

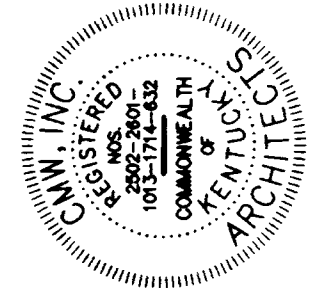


EXISTING SHELL PLAN  
FOURTH FLOOR  
SCALE: 1/8" = 1'-0"



DATE	DEC. 1994
DRAWN BY	J.B. BCJ
CHECKED BY	J.B. DW
REVISION	
DATE	
BY	
DESCRIPTION	
SHEET NUMBER	4.0
PROJECT NUMBER	90240.04

OFFICIAL END DOCUMENT  
FINAL DOCUMENTS



FAILURE TO ABIDE BY  
SECTION REQUIREMENTS BY  
THIS SEALING  
IS A VIOLATION OF  
KRS 192.025  
AND IS SUBJECT TO  
PENALTY AS PROVIDED  
THEREIN.

Fourth Floor Plan - Fit-up  
Medical Research Fit-up and Security System  
University of Kentucky  
Project No. 747.3

SHT.	PROJECT TITLE
DATE	DEC. 1994
DRAWN BY	J.B. BCJ
CHECKED BY	J.B. DW
REVISED	
DATE	1
2	
3	
4	
SHEET NUMBER	
4.1	
PROJECT NUMBER	
90240.04	

GENERAL NOTES:

ALL WALLS SHALL EXTEND TO STRUCTURE ABOVE AND SEAL TIGHT.  
ALL PARTITIONS SHALL BE CAULKED BOTH SIDES @ DECK ABOVE & @ FLOOR.

ALL DIMENSIONS SHOWN ARE FINISH FACE UNLESS NOTED OTHERWISE

ALL GYPSUM WALLBOARD SHALL BE 5/8" FIRE CODE GYPSUM BOARD UNLESS NOTED OTHERWISE

CONTRACTOR FIELD VERIFY EXISTING CONDITIONS, INCLUDING ALL DIMENSIONS AND FINISH FLOOR ELEVATIONS

ALL OUTSIDE CORNERS OF CONCRETE BLOCK WALLS SHALL BE BULLNOSE BLOCK

TOP OF ALL CONCRETE BLOCK WALLS SHALL HAVE AN 11 GA. CHANNEL BY 8" LONG AT 4'-0" CENTER TO CENTER, ANCHORED INTO CONCRETE STRUCTURE. CENTER CHANNEL ON 2 BLOCKS, TYPICAL. SEE DETAIL C&D/5.1

ALL GAPS AROUND FULL HEIGHT NON-LOAD BEARING WALLS, AS WELL AS PENETRATIONS IN WALLS AND FLOORS, SHALL BE SEALED WITH FIRESTOPPING TO MAINTAIN REQUIRED FIRE RATING OF PARTITION.

TOPS OF ALL STUD PARTITIONS SHALL HAVE A LONG LEG RUNNER TRACK CONTINUOUS WITH A 2 1/2" MINIMUM DIMENSION TO ALLOW FOR FLOOR DEFLECTION, SEE DETAIL B/5.1

WINDOW SILLS AND SHELF SURFACES ON TOP OF RACK SYSTEMS IN ALL LAB AREAS SHALL BE IMPERIAL STONE

PROVIDE FIRE TREATED WOOD BLOCKING IN WALLS AS REQUIRED FOR ALL WALL MOUNTED ITEMS. (COUNTERS, SHELVES, CABINETS, GRAB BARS, ETC.)

ALL PARTITIONS BETWEEN LABS, LABS AND OFFICES, LABS AND EQUIPMENT ROOMS, AND BETWEEN WORKSTATIONS, OFFICES AND CORRIDORS SHALL RECEIVE SOUND ATTENUATION BATS TO DECK ABOVE - TYPICAL.

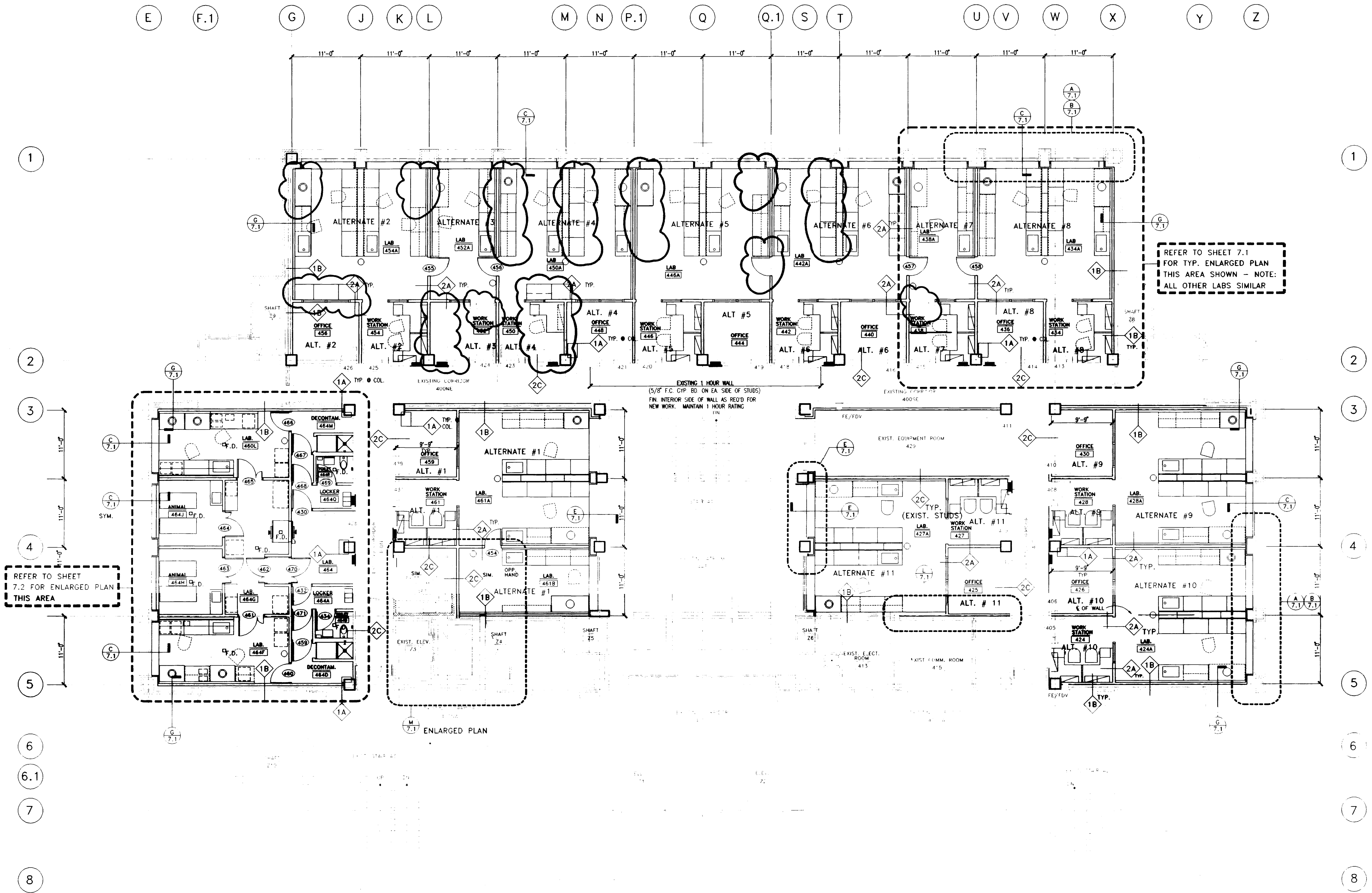
CONTRACTOR SHALL PREPARE EXIST. CONC. SLABS AS REQUIRED TO RECEIVE NEW FLOOR FINISH SCHEDULED.

WHERE FLOORS ARE MORE THAN 3/4" OUT OF LEVEL, CONTRACTOR SHALL LEVEL W/ FLOOR LEVELER, SEE SPECS.

EXISTING PARTITIONS, 5/8" GYP. BD. CORRIDOR SIDE ONLY EXCEPT AT EXISTING LAVELED WALLS. TYPICAL AT ALL CORRIDORS ON 4TH FLOOR.

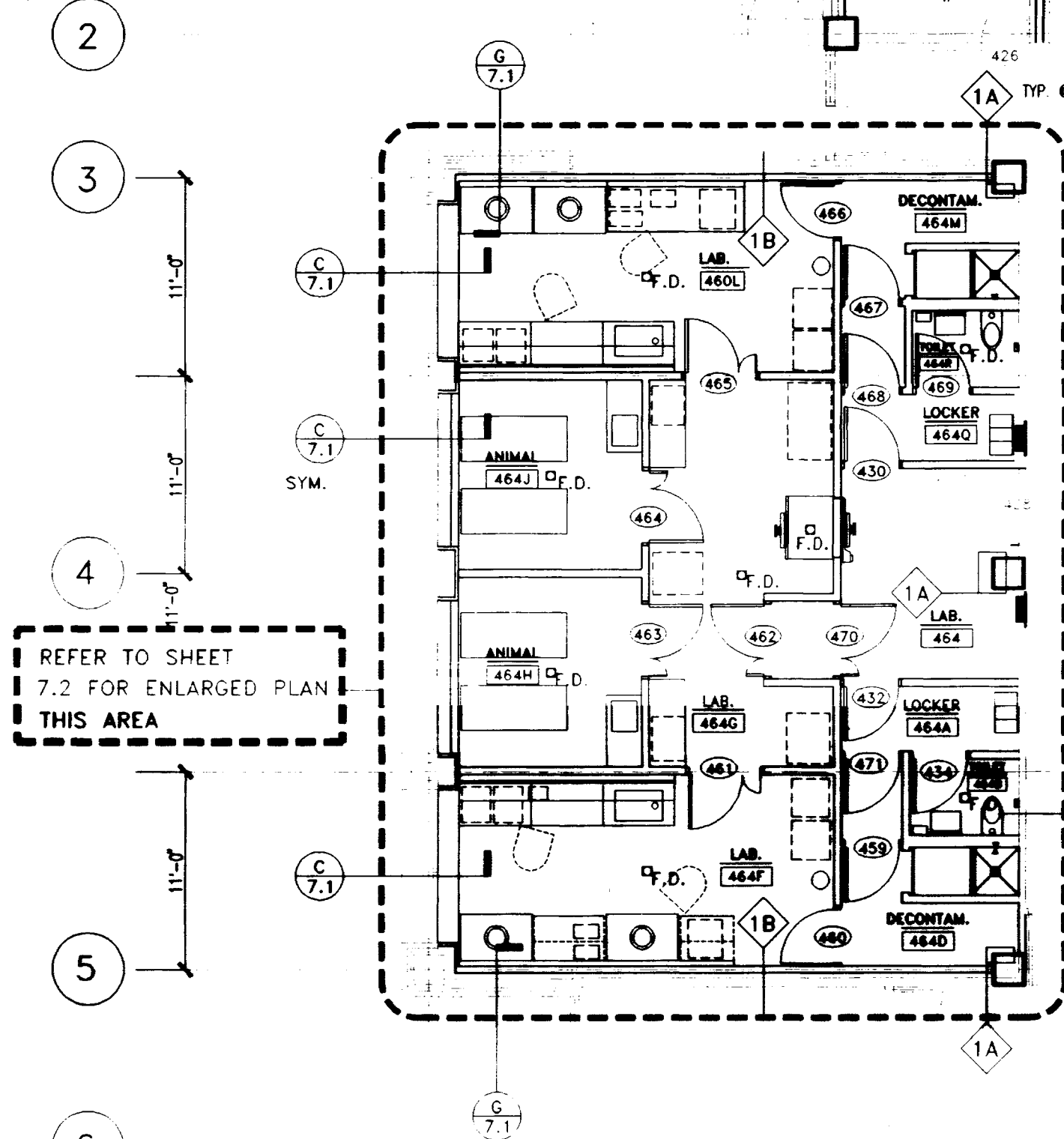
EXISTING WINDOW BLINDS IN 4TH FLOOR SHELL SPACE SHALL BE TAKEN DOWN, STORED CLEANED AND REINSTALLED AT THE COMPLETION OF CONSTRUCTION

GRIND DOWN EDGES OF EXISTING CONCRETE FILLED RECESS IN OFFICE 425 AS REQUIRED TO LEVEL WITH ADJACENT CONC. SLAB FILL AS REQ'D.



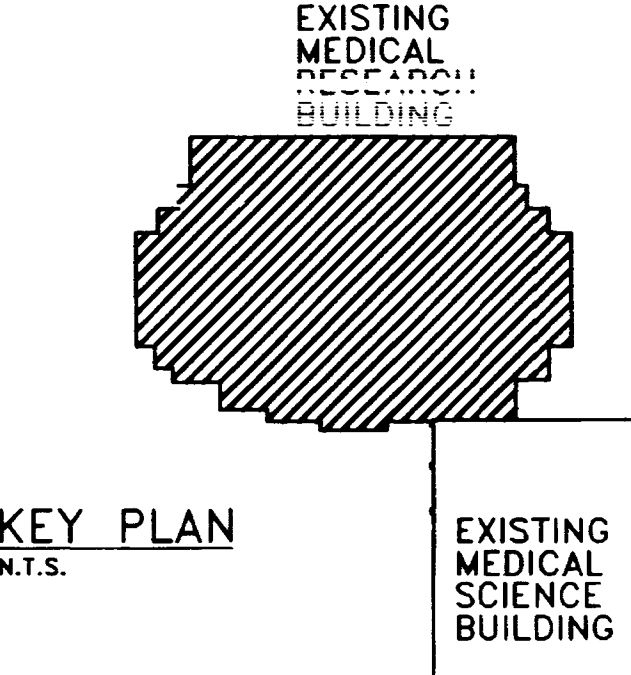
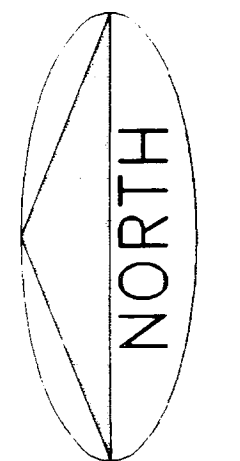
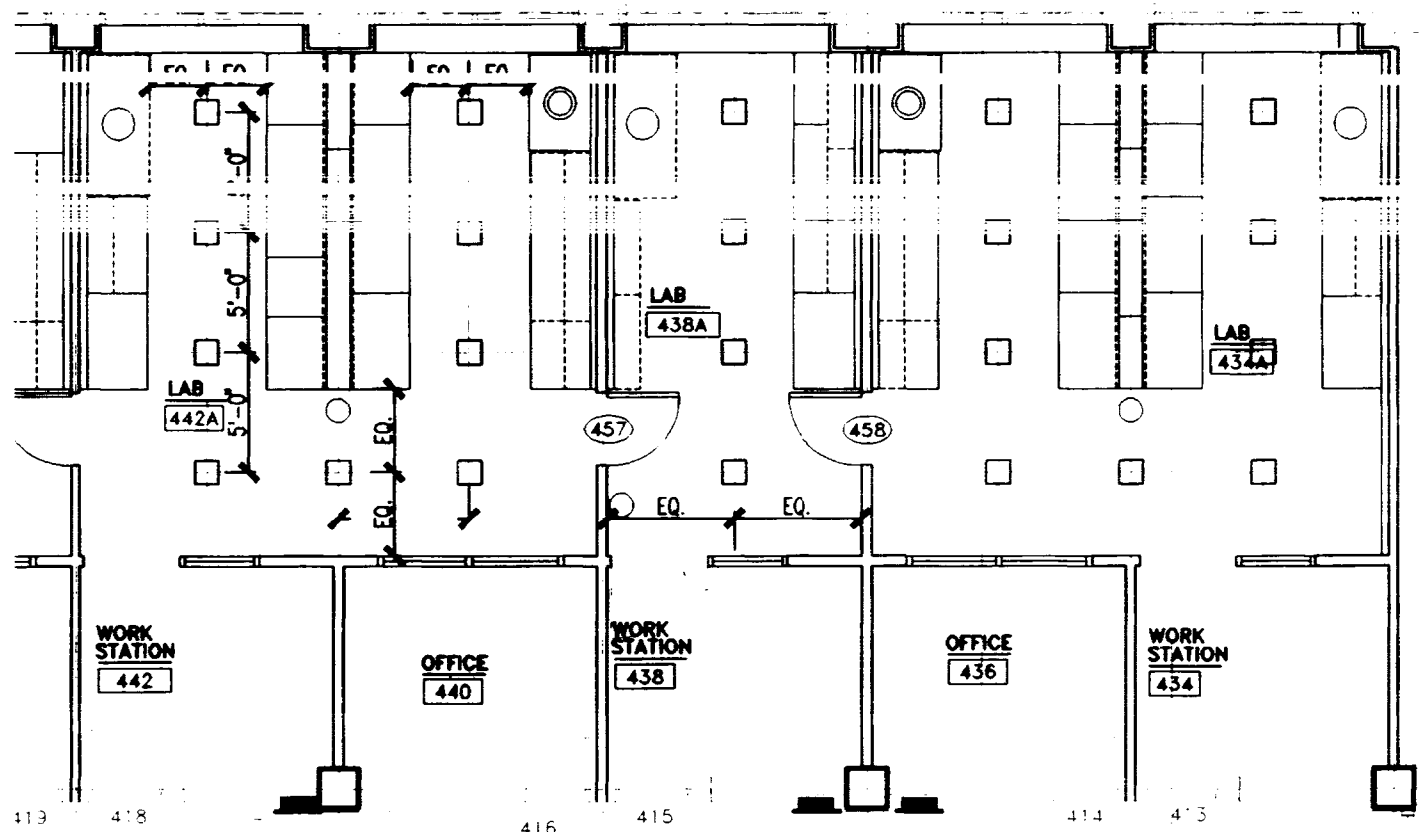
REFER TO SHEET 7.2 FOR ENLARGED PLAN THIS AREA

REFER TO SHEET 7.1 FOR TYP. ENLARGED PLAN THIS AREA SHOWN - NOTE: ALL OTHER LABS SIMILAR



ENLARGED PLAN

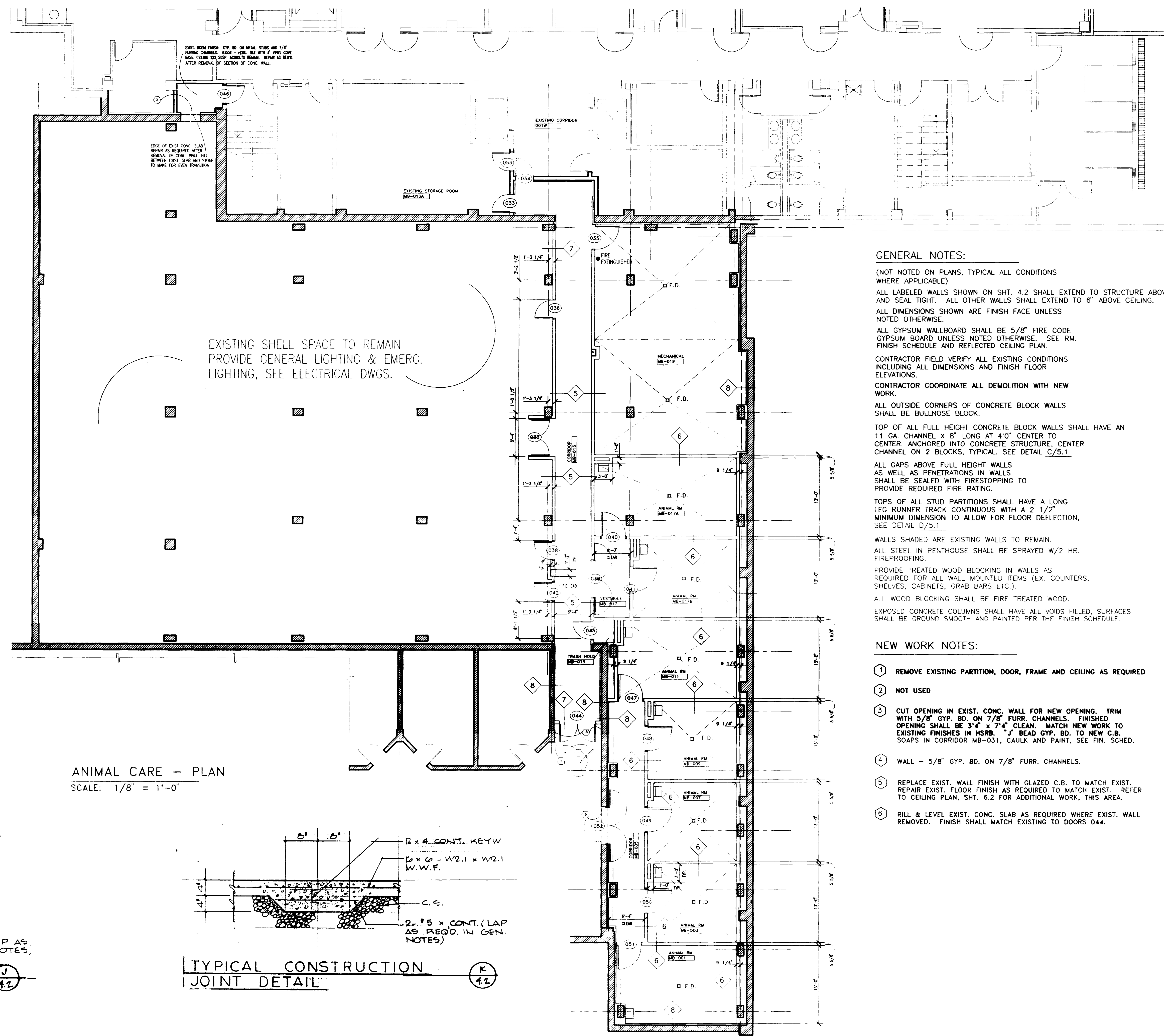
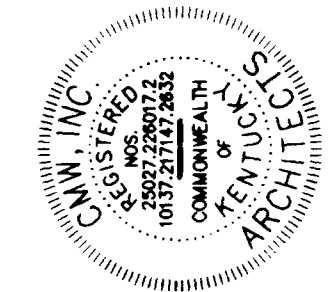
TYPICAL FLOOR TILE PATTERN  
ALL LABS  
SCALE: 1/8" = 1'-0"



KEY PLAN  
N.T.S.

PLAN -  
FOURTH FLOOR FIT-UP  
SCALE: 1/8" = 1'-0"





**GENERAL NOTES:**

(NOT NOTED ON PLANS, TYPICAL ALL CONDITIONS WHERE APPLICABLE)

ALL LABELED WALLS SHOWN ON SHT. 4.2 SHALL EXTEND TO STRUCTURE ABOVE AND SEAL TIGHT. ALL OTHER WALLS SHALL EXTEND TO 6" ABOVE CEILING.

ALL DIMENSIONS SHOWN ARE FINISH FACE UNLESS NOTED OTHERWISE.

ALL GYPSUM WALLBOARD SHALL BE 5/8" FIRE CODE GYPSUM BOARD UNLESS NOTED OTHERWISE. SEE RM. FINISH SCHEDULE AND REFLECTED CEILING PLAN.

CONTRACTOR FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING ALL DIMENSIONS AND FINISH FLOOR ELEVATIONS.

CONTRACTOR COORDINATE ALL DEMOLITION WITH NEW WORK.

ALL OUTSIDE CORNERS OF CONCRETE BLOCK WALLS SHALL BE BULLNOSE BLOCK.

TOP OF ALL FULL HEIGHT CONCRETE BLOCK WALLS SHALL HAVE AN 11 GA. CHANNEL X 8" LONG AT 4'0" CENTER TO CENTER ANCHORED INTO CONCRETE STRUCTURE, CENTER CHANNEL ON 2 BLOCKS, TYPICAL. SEE DETAIL C/5.1

ALL GAPS ABOVE FULL HEIGHT WALLS AS WELL AS PENETRATIONS IN WALLS SHALL BE SEALED WITH FIRESTOPPING TO PROVIDE REQUIRED FIRE RATING.

TOPS OF ALL STUD PARTITIONS SHALL HAVE A LONG LEG RUNNER TRACK CONTINUOUS WITH A 2 1/2" MINIMUM DIMENSION TO ALLOW FOR FLOOR DEFLECTION. SEE DETAIL D/5.1

WALLS SHADED ARE EXISTING WALLS TO REMAIN.

ALL STEEL IN PENTHOUSE SHALL BE SPRAYED W/2 HR. FIREPROOFING.

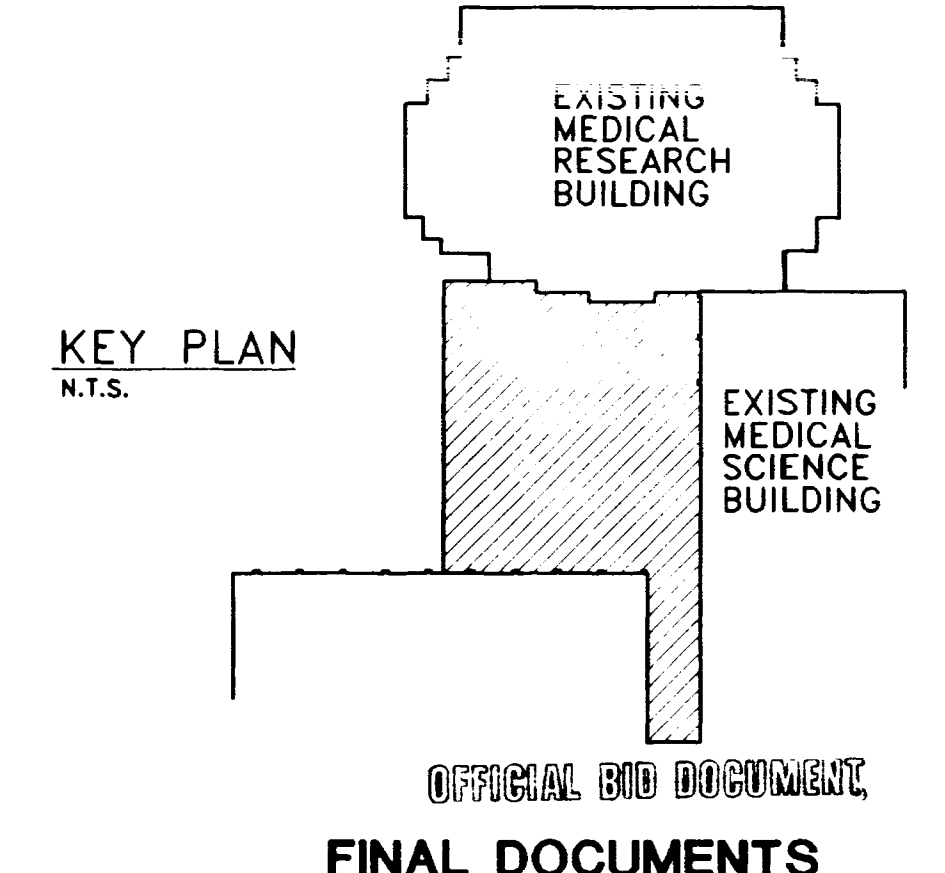
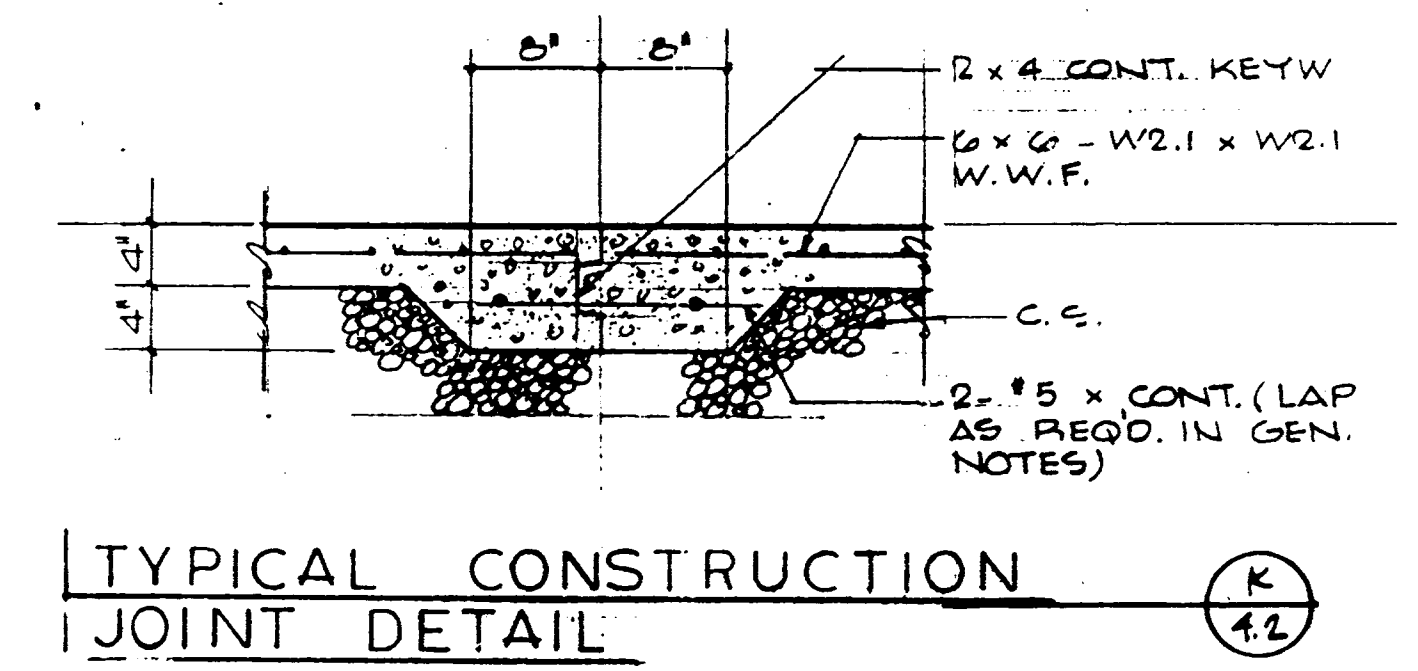
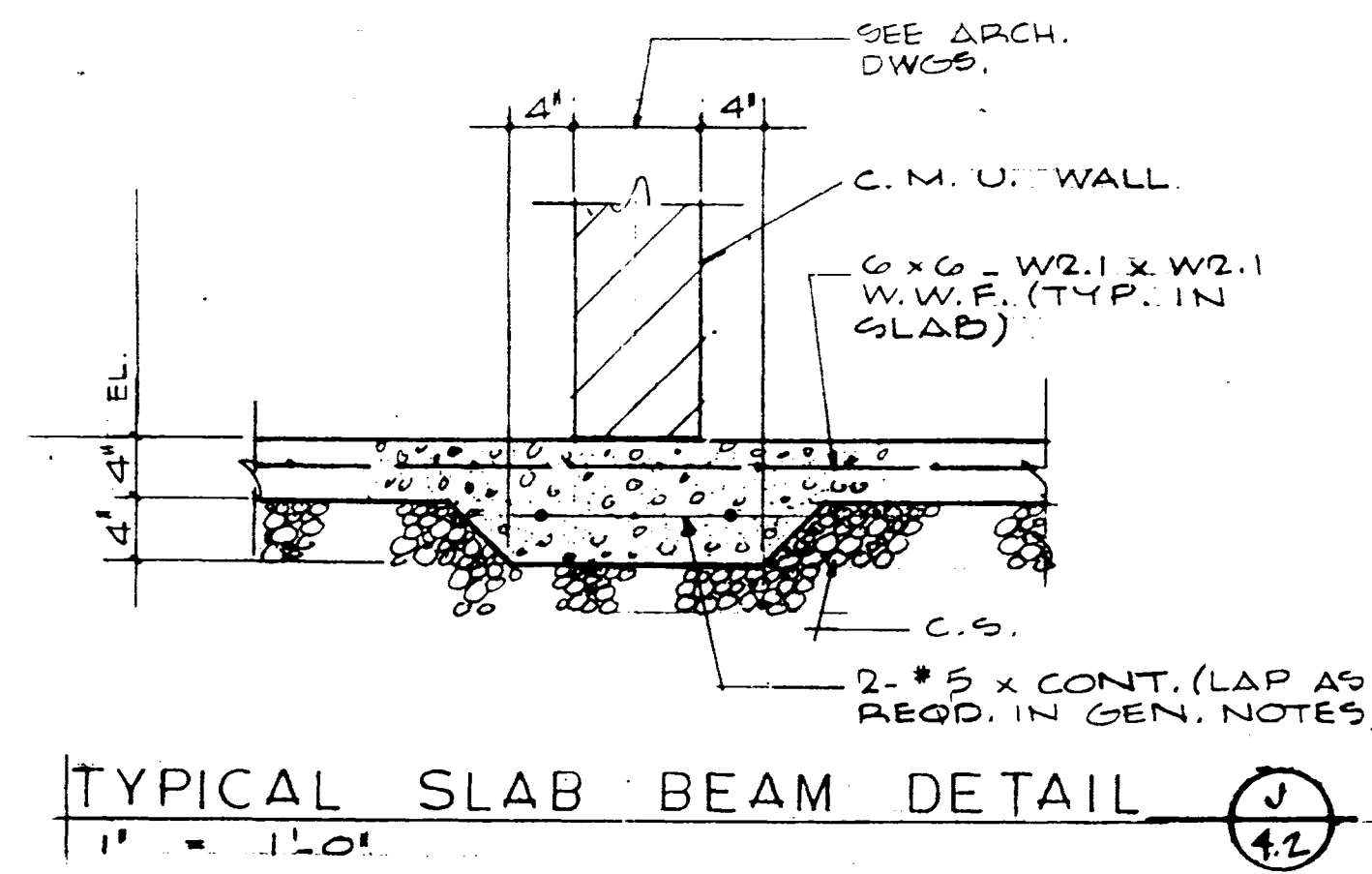
PROVIDE TREATED WOOD BLOCKING IN WALLS AS REQUIRED FOR ALL WALL MOUNTED ITEMS (EX. COUNTERS, SHELVES, CABINETS, GRAB BARS ETC.).

ALL WOOD BLOCKING SHALL BE FIRE TREATED WOOD.

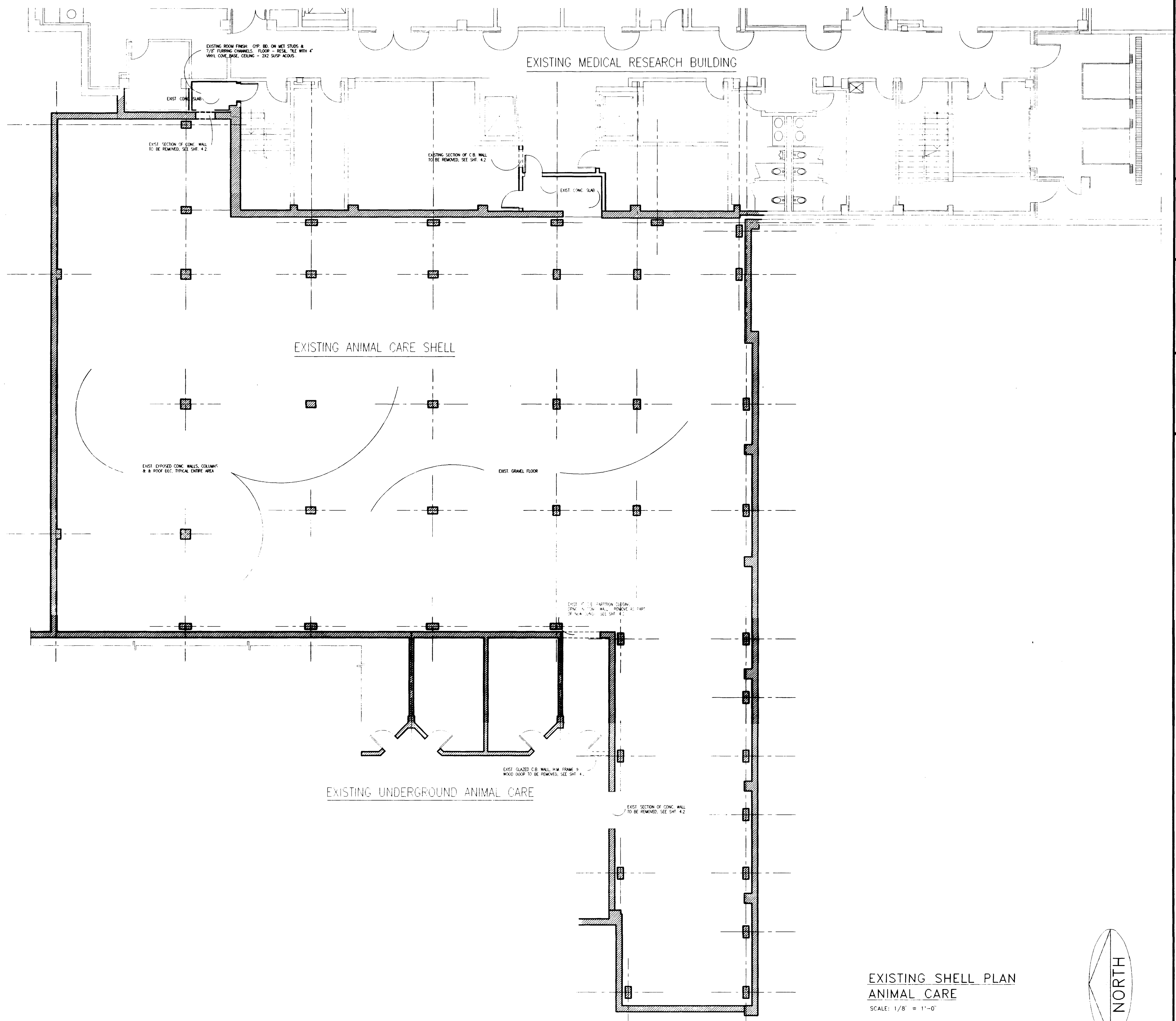
EXPOSED CONCRETE COLUMNS SHALL HAVE ALL VOIDS FILLED, SURFACES SHALL BE GROUND SMOOTH AND PAINTED PER THE FINISH SCHEDULE.

- NEW WORK NOTES:**
- 1 REMOVE EXISTING PARTITION, DOOR, FRAME AND CEILING AS REQUIRED
  - 2 NOT USED
  - 3 CUT OPENING IN EXIST. CONC. WALL FOR NEW OPENING. TRIM WITH 5/8" GYP. BD. ON 7/8" FURR. CHANNELS. FINISHED OPENING SHALL BE 3'-4" X 7'-4" CLEAN. MATCH NEW WORK TO EXISTING FINISHES IN MSRB. "J" BEAD GYP. BD. TO NEW C.B. SOAPS IN CORRIDOR MB-031, CAULK AND PAINT, SEE FIN. SCHED.
  - 4 WALL - 5/8" GYP. BD. ON 7/8" FURR. CHANNELS.
  - 5 REPLACE EXIST. WALL FINISH WITH GLAZED C.B. TO MATCH EXIST. REPAIR EXIST. FLOOR FINISH AS REQUIRED TO MATCH EXIST. REFER TO CEILING PLAN, SHT. 6.2 FOR ADDITIONAL WORK, THIS AREA.
  - 6 RILL & LEVEL EXIST. CONC. SLAB AS REQUIRED WHERE EXIST. WALL REMOVED. FINISH SHALL MATCH EXISTING TO DOORS 044.

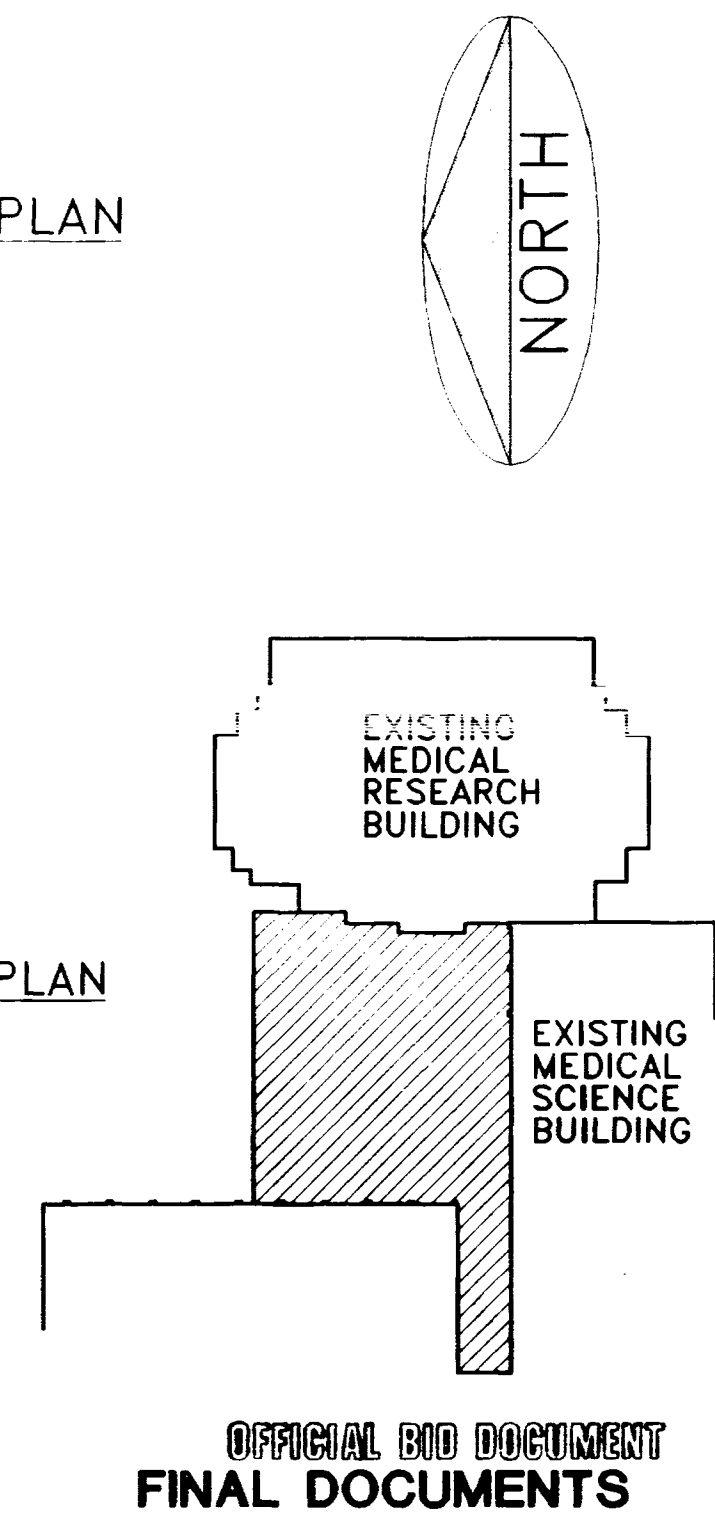
**ANIMAL CARE - PLAN**  
 SCALE: 1/8" = 1'-0"



SHT. PROJECT TITLE	
DATE	DEC. 1994
DRAWN BY	B. BCJ
CHECKED BY	B. DW
REVISED	
DATE	1
	2
	3
	4
SHEET NUMBER	
<b>4.2</b>	
PROJECT NUMBER	
80240.04	



EXISTING SHELL PLAN  
ANIMAL CARE  
SCALE: 1/8" = 1'-0"



KEY PLAN  
N.T.S.

ORIGINAL BID DOCUMENT  
FINAL DOCUMENTS

**CJM**  
CHARLIE MILLER · WOODFORD · INC.  
ARCHITECTURE ENGINEERING PLANNING INTERIORS LANDSCAPE ARCHITECTURE  
205 S. BRADLEY  
BOONVILLE, KY 40309

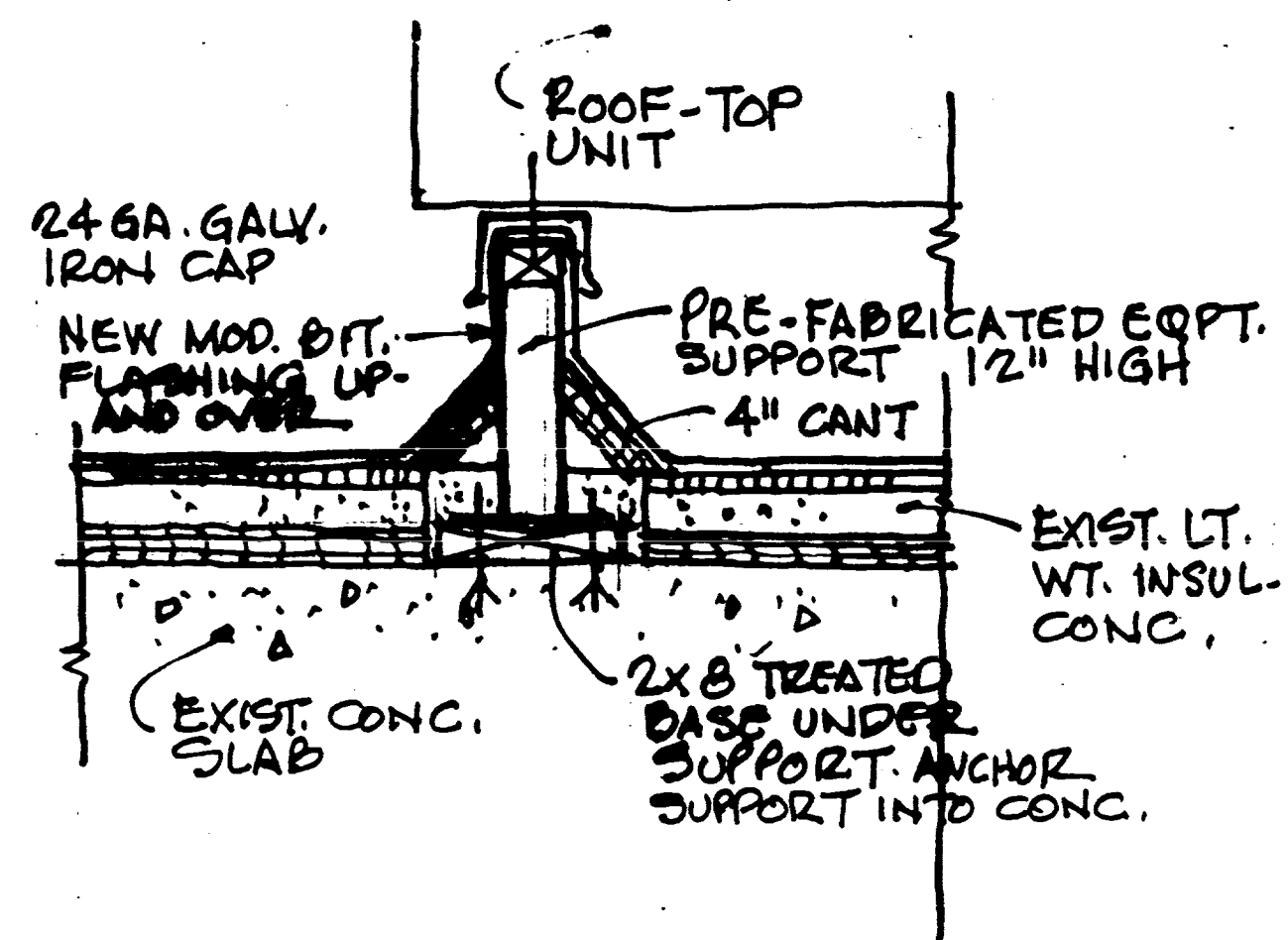


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Animal Care Existing Shell Plan  
Medical Research Fit-up and Security System  
University of Kentucky  
Project No. 747.3

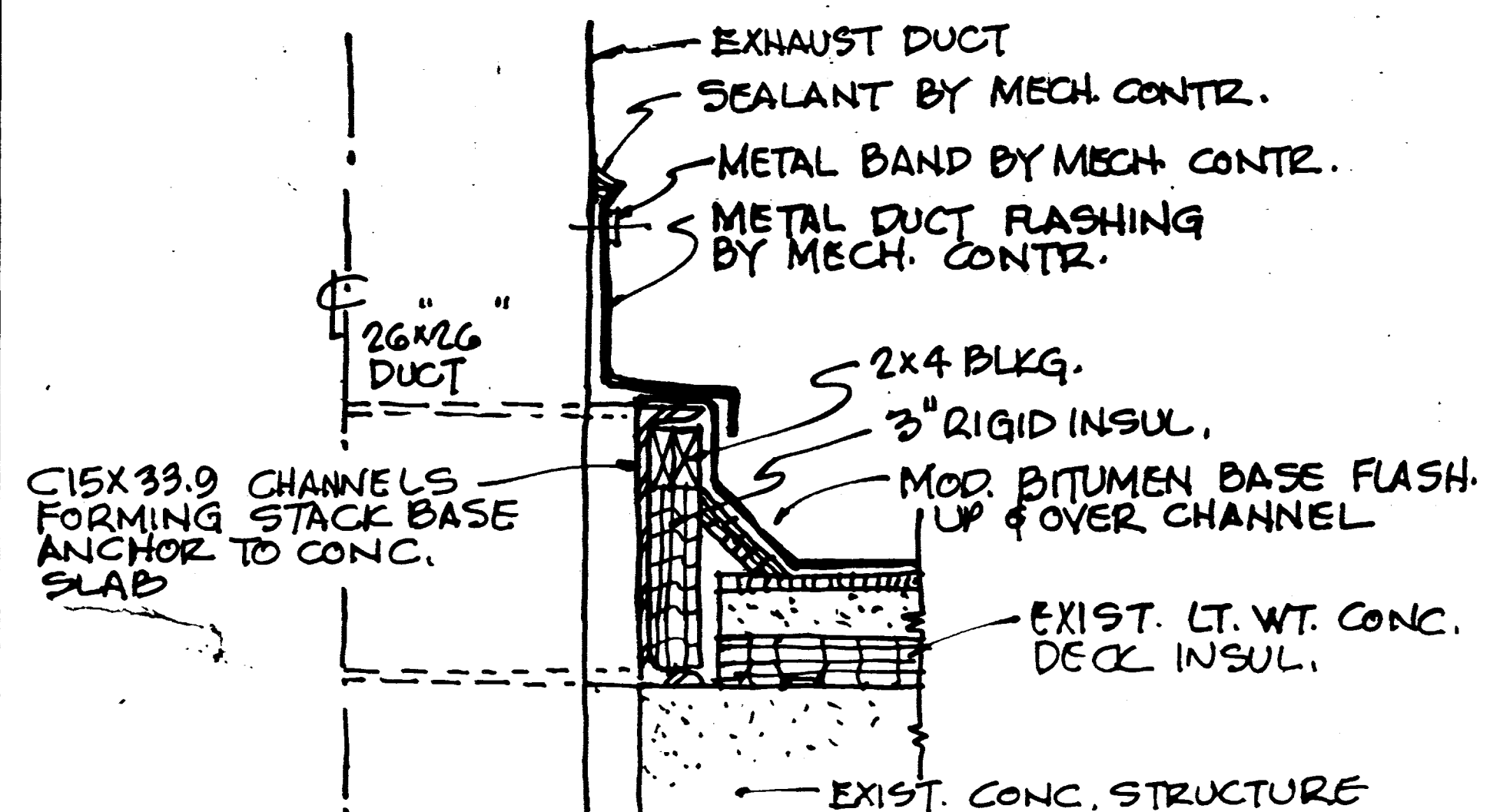
SHT.	PROJECT TITLE
DATE	DEC. 1994
DRAWN BY	J.B. BCJ
CHECKED BY	J.B.
REVISED	
DATE	1
	2
	3
	4
SHEET NUMBER	
4	
PROJECT NUMBER	
80240.04	



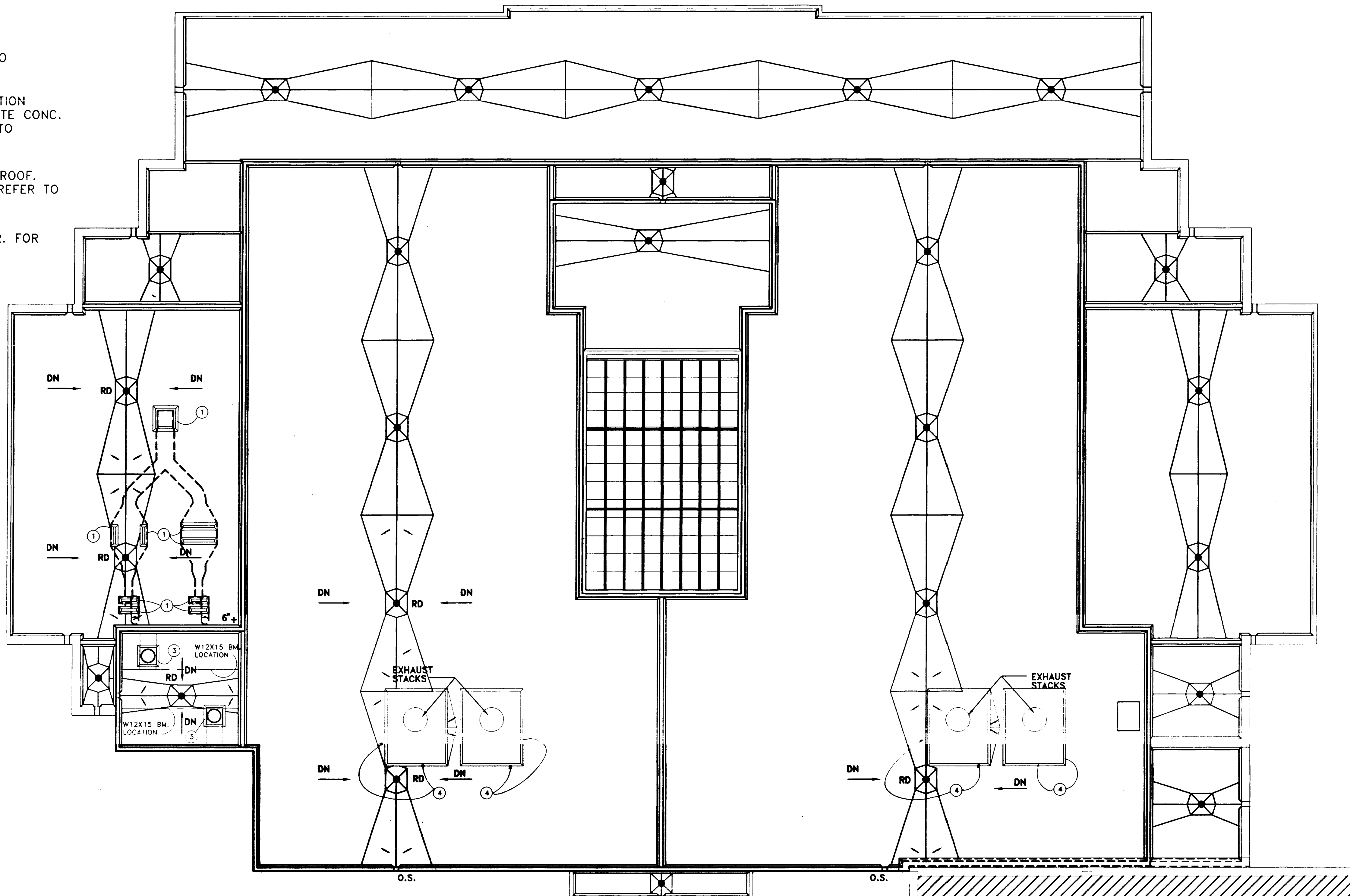


SECTION A  
 1/2" = 1'-0"

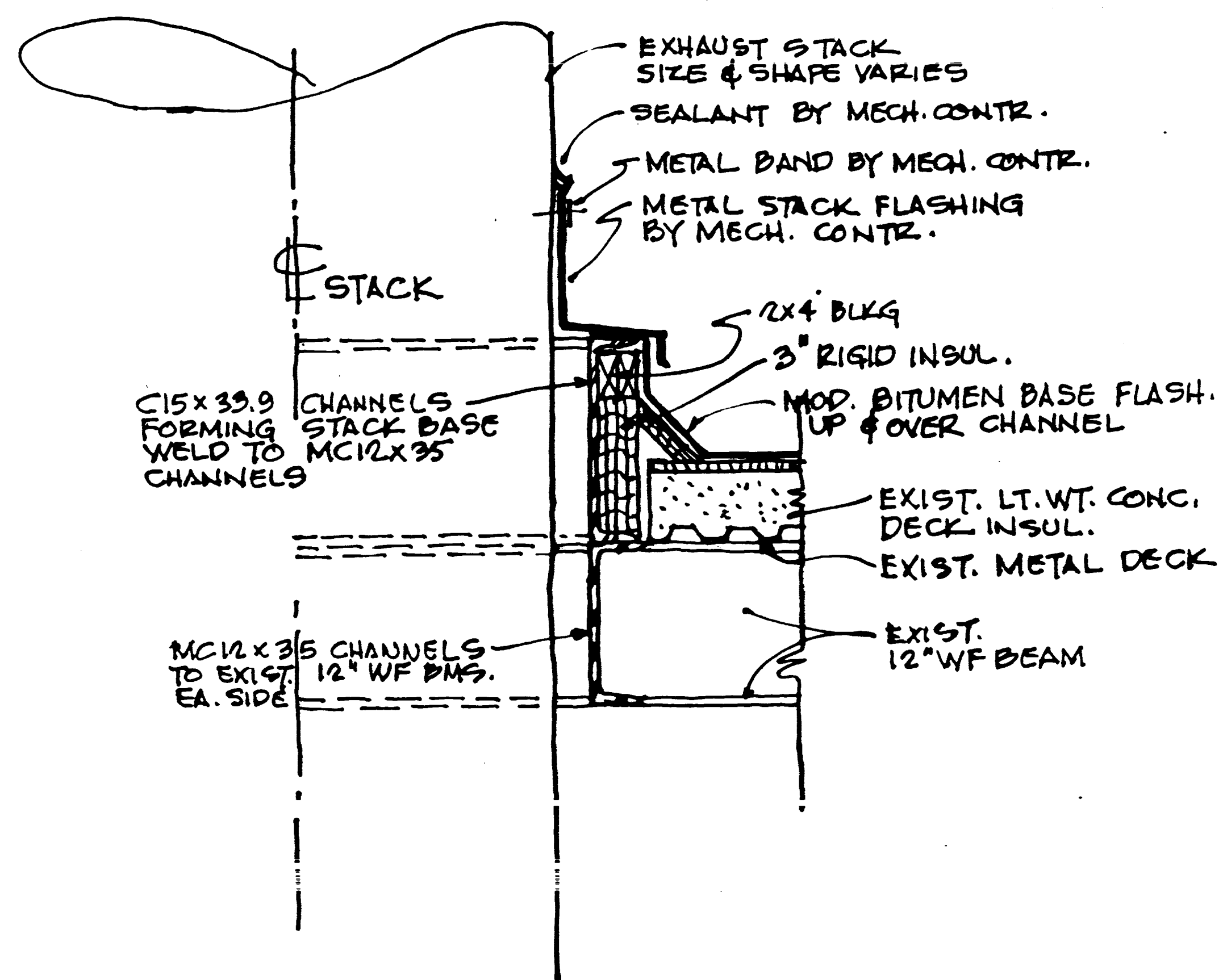
- CODED NOTES
- EQUIPMENT SUPPORTS. LOCATION AS DIRECTED BY MECH. CONTRACTOR, REFER TO SECTION A-4.5
  - DUCT PENETRATION THROUGH ROOF. LOCATION AS DIRECTED BY MECH. CONTR. COORDINATE CONC. SLAB OPNG. WITH STRUCT. ENGR. REFER TO SECTION B-4.5
  - STACK PENETRATION THROUGH PENTHOUSE ROOF. LOCATION AS DIRECTED BY MECH. CONTR. REFER TO SECTION C-4.5
  - EXHAUST FAN ENCLOSURE BY MECH. CONTR. FOR BASE DETAIL REFER TO SECTION D-4.5



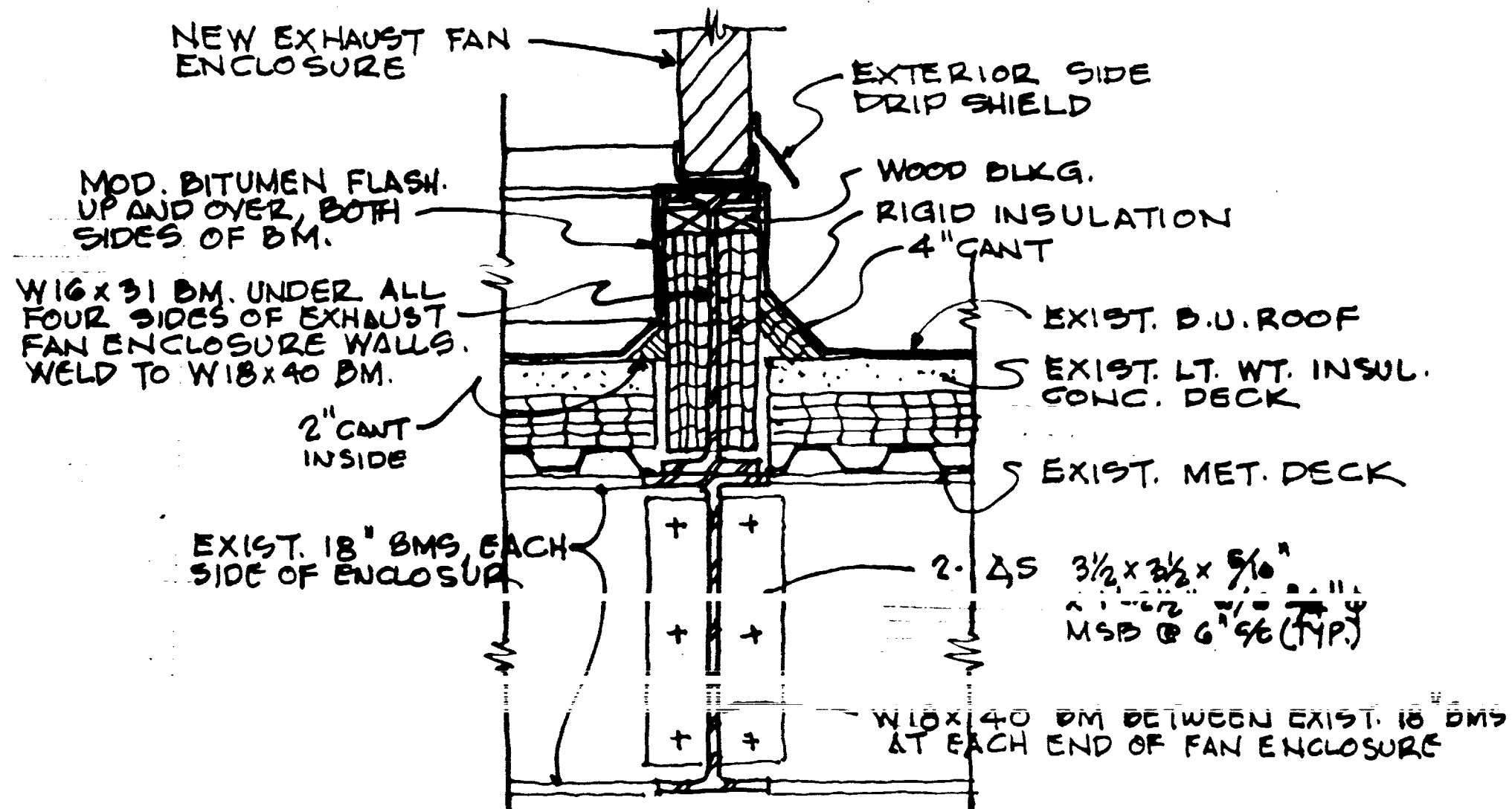
SECTION B  
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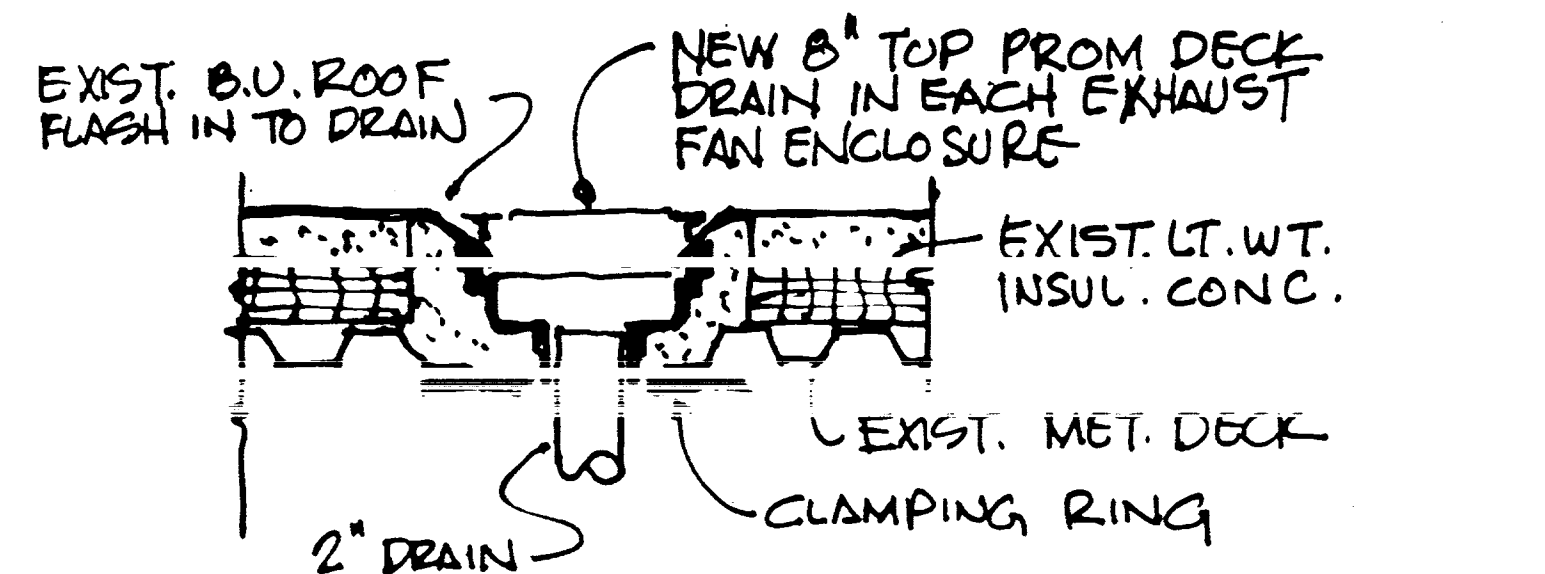
PLAN - ROOF  
 SCALE: 1/8" = 1'-0"



SECTION C  
 1/2" = 1'-0"



SECTION D  
 1/2" = 1'-0"



SECTION - ROOF DRAIN @ FAN ENCLOSURE  
 1/2" = 1'-0"



ROOM FINISH SCHEDULE LEGEND

- FLOORS: VINYL COMPOSITE TILE VT-1 ARMSTRONG, IMPERIAL TEXTURE, #51915 CHARCOAL VT-2 NOT USED VT-3 ARMSTRONG, PREMIUM EXCELON, #52125 DESERT DUST CERAMIC TILE FLOORS CT-1 AMERICAN OLEAN, D-15 DAWN GRAY, 2"X2" SEAMLESS FLOORING SF-1 ARMSTRONG, MEDINTECH, #86470 JASMINE CARPET C-1 HARBINGER, CIRCUITRY, 8912, ANDRE

BASE:

- VINYL BASE VB-1 ARMSTRONG, 4" VINYL COVE BASE, WARM GRAY #14122 VB-2 ARMSTRONG, 4" ST. VINYL BASE, WARM GRAY #14122 CERAMIC TILE BASE CT-1 AMERICAN OLEAN, D-15 DAWN GRAY, 2"X2" SEAMLESS BASE SB-1 ARMSTRONG, MEDINTECH, 6" HIGH INTEGRAL, #86470 JASMIN

WALLS:

- PAINT P-1 SHERWIN-WILLIAMS SW-1031 MODERN GRAY P-2 SHERWIN-WILLIAMS SW-1030 SCULPTURE GRAY P-3 NOT USED P-4 DEVOE 1D52C EBONY HUE EPOXY PAINT EP-1 SHERWIN WILLIAMS SW-1031 MODERN GRAY

GLAZED CONCRETE BLOCK

- GB-1 SPECTRA-GLAZE II, #S-49 EXTRA SPECIAL WHITE

CERAMIC TILE WALLS

- CT-1 AMERICAN OLEAN, D-15 DAWN GRAY, 2"X2"

CEILING:

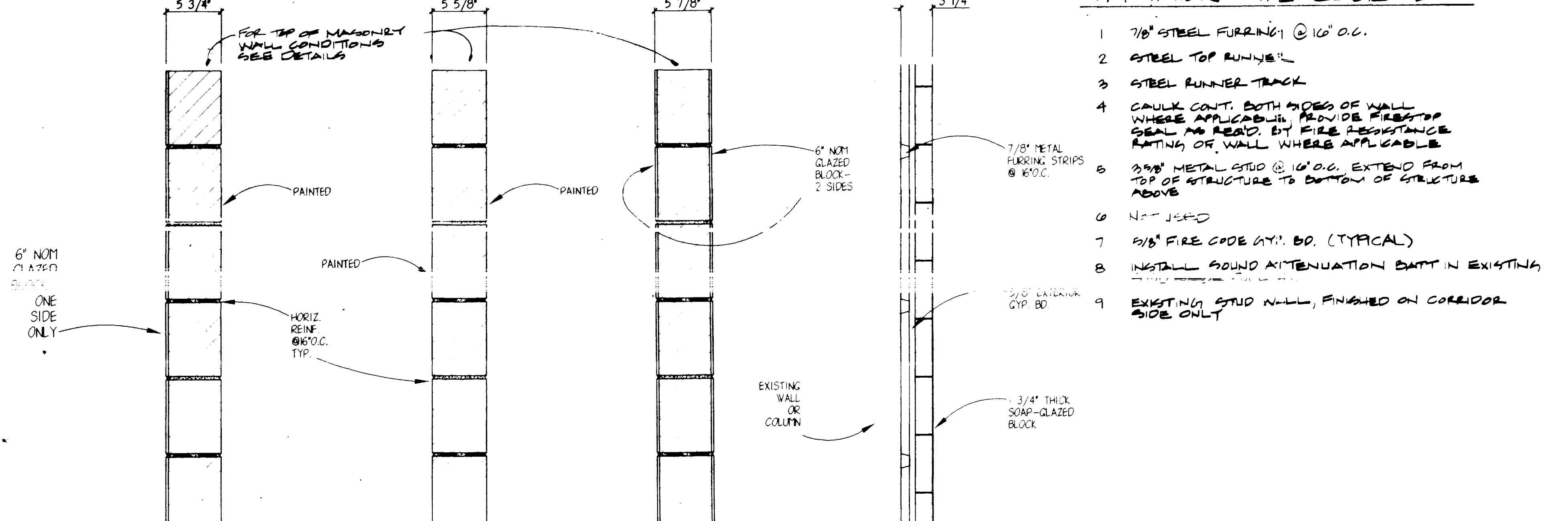
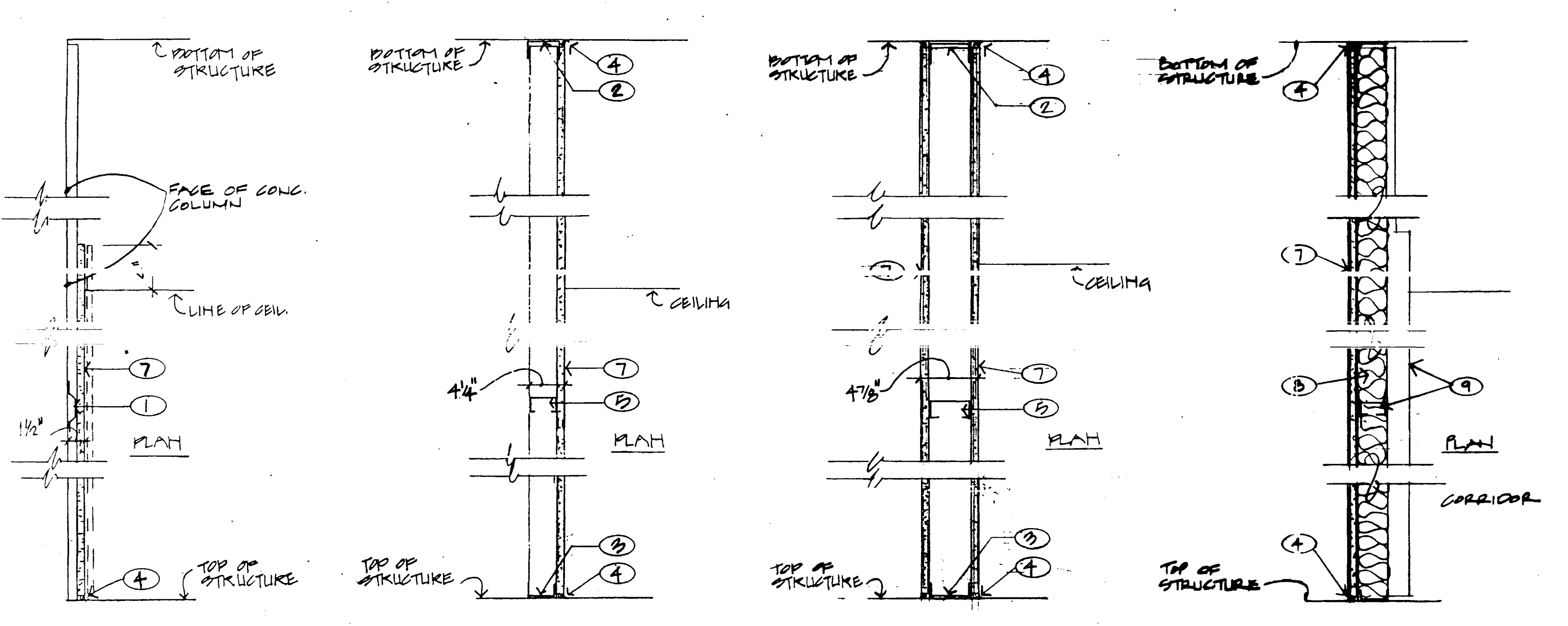
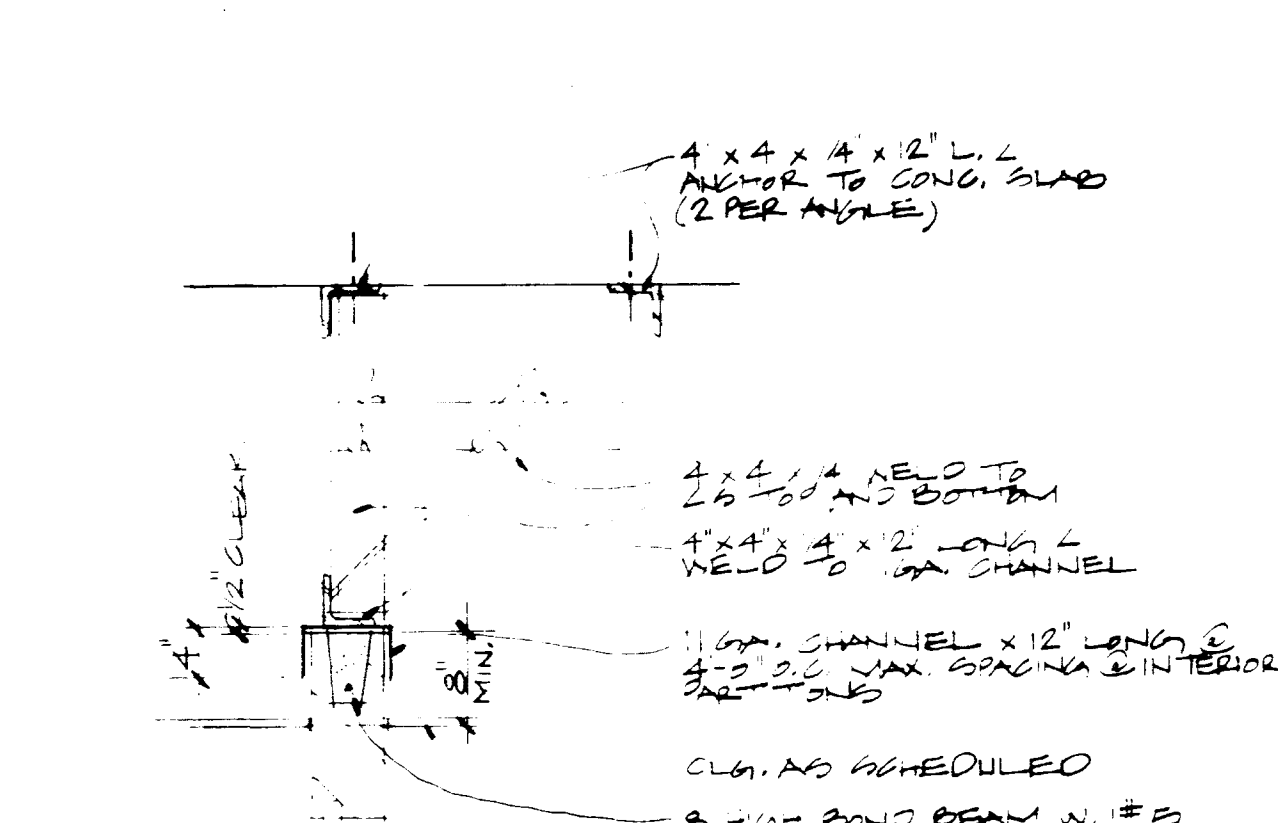
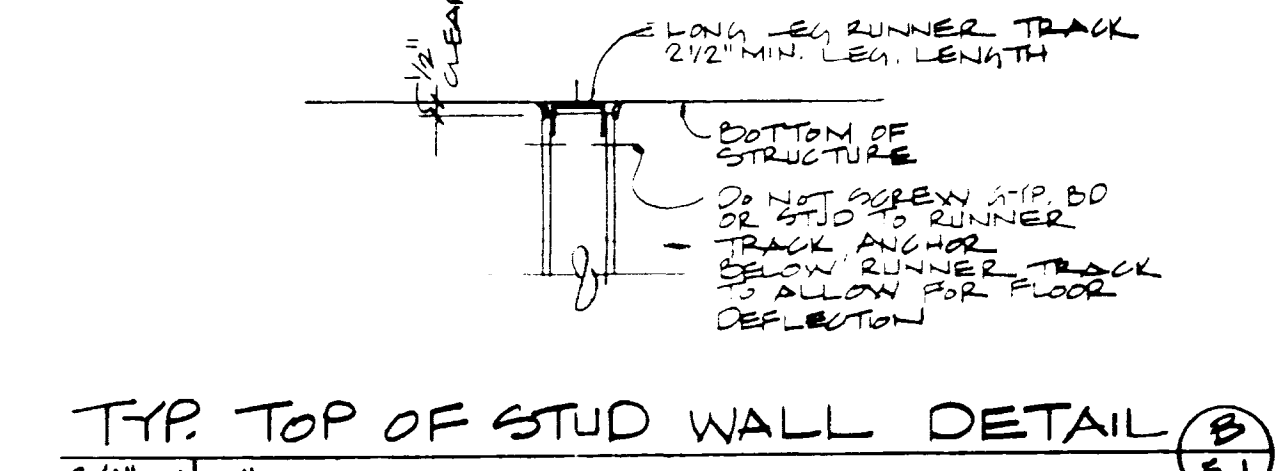
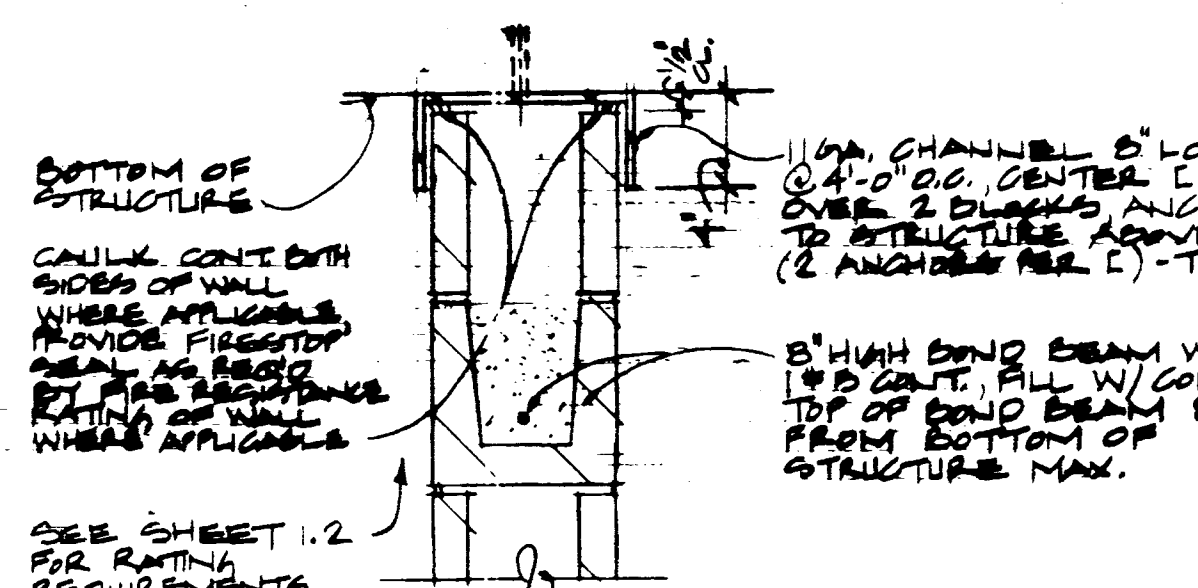
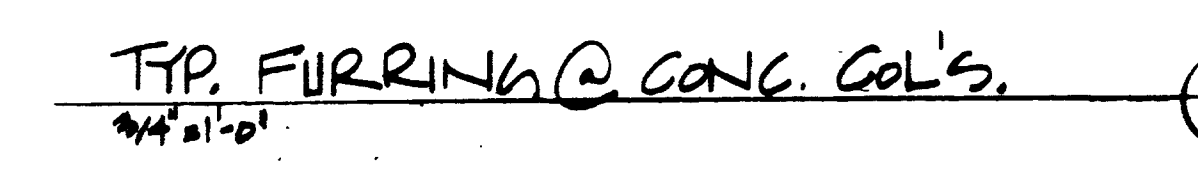
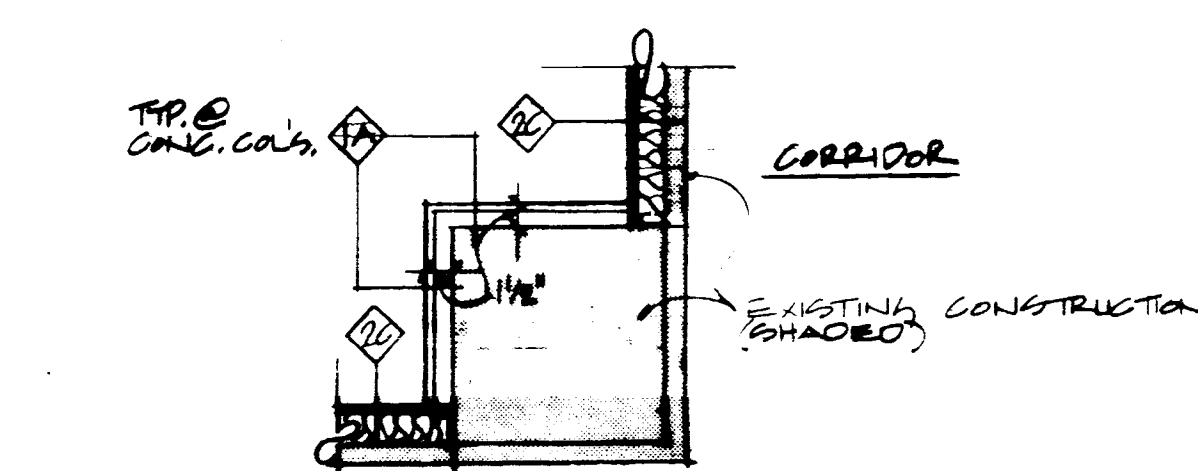
- SUSPENDED ACOUSTICAL ACT-1 ARMSTRONG, FIRE GUARD ML, (METAL LAMINATE) PERFORATED, 2'X2'X5/8" ACT-2 NOT USED PAINTED GYPSUM BOARD CP-1 SHERWIN-WILLIAMS SW1039 ZURICH WHITE EPOXY PAINTED CEILINGS EP-2 SHERWIN-WILLIAMS SW1039 ZURICH WHITE

ROOM FINISH SCHEDULE MARKS

- 1. REFER TO SHT. 4.1 FOR FLOOR TILE PATTERN IN LABS. 2. ALL HOLLOW METAL WORK INCLUSIVE OF METAL FRAMES ON WOOD DOORS SHALL BE COLOR P-4. 3. WHERE EPOXY\* FLOOR AND BASE FINISH ARE NOTED, COLOR SHALL BE AS SELECTED BY THE ARCHITECT FROM THE MANUFACTURERS FULL RANGE OF COLORS. 4. SHEET VINYL FLOORING WITH 6" INTEGRAL BASE SHALL BE SF-1 WITH SB-1 BASE. 5. EPOXY WALL FINISH WHERE NOTED SHALL BE COLOR EP-1. 6. EPOXY CEILING FINISH WHERE NOTED SHALL BE COLOR EP-2. 7. SEMI-GLOSS PAINT FINISH WHERE NOTED SHALL BE COLOR P-2. 8. CERAMIC TILE FOR FLOORS, BASE AND WALLS WHERE NOTED SHALL BE CT-1. 9. FLAT PAINT FOR WALLS AND CEILINGS WHERE NOTED SHALL BE CP-1. 10. RESILIENT TILE WHERE NOTED SHALL BE VT-1. 11. 4" VINYL BASE WHERE NOTED SHALL BE VB-1. 12. GLAZED CONCRETE BLOCK WHERE NOTED SHALL BE GB-1.

ROOM FINISH SCHEDULE

Table with columns: NO., NAME, FLOOR, FINISH, BASE, NORTH WALL, SOUTH WALL, EAST WALL, WEST WALL, CEILING, FINISH, HEIGHT, REMARKS. Lists room details for various rooms like ANIMAL ROOM, CORRIDOR, LAB, OFFICE, etc.



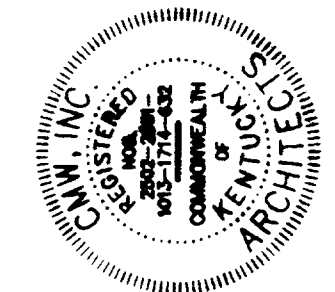
NOTE: SEE SHT. 1.2 OF SHEET PLAN FOR REAR FIRE RATINGS. PARTITION TYPE 2B W/ SOUND ATTENUATION BATT IS FULL HT. NOTE: AT ROOMS 424 & 425, 2 1/2\"/>

Vertical sidebar containing project information: Medical Research Fit-up and Security System, University of Kentucky, Project No. 747.3, Room Finish Schedule, and drawing metadata (DATE: DEC 1984, SHEET NUMBER: 5.1, PROJECT NUMBER: 90240.04).

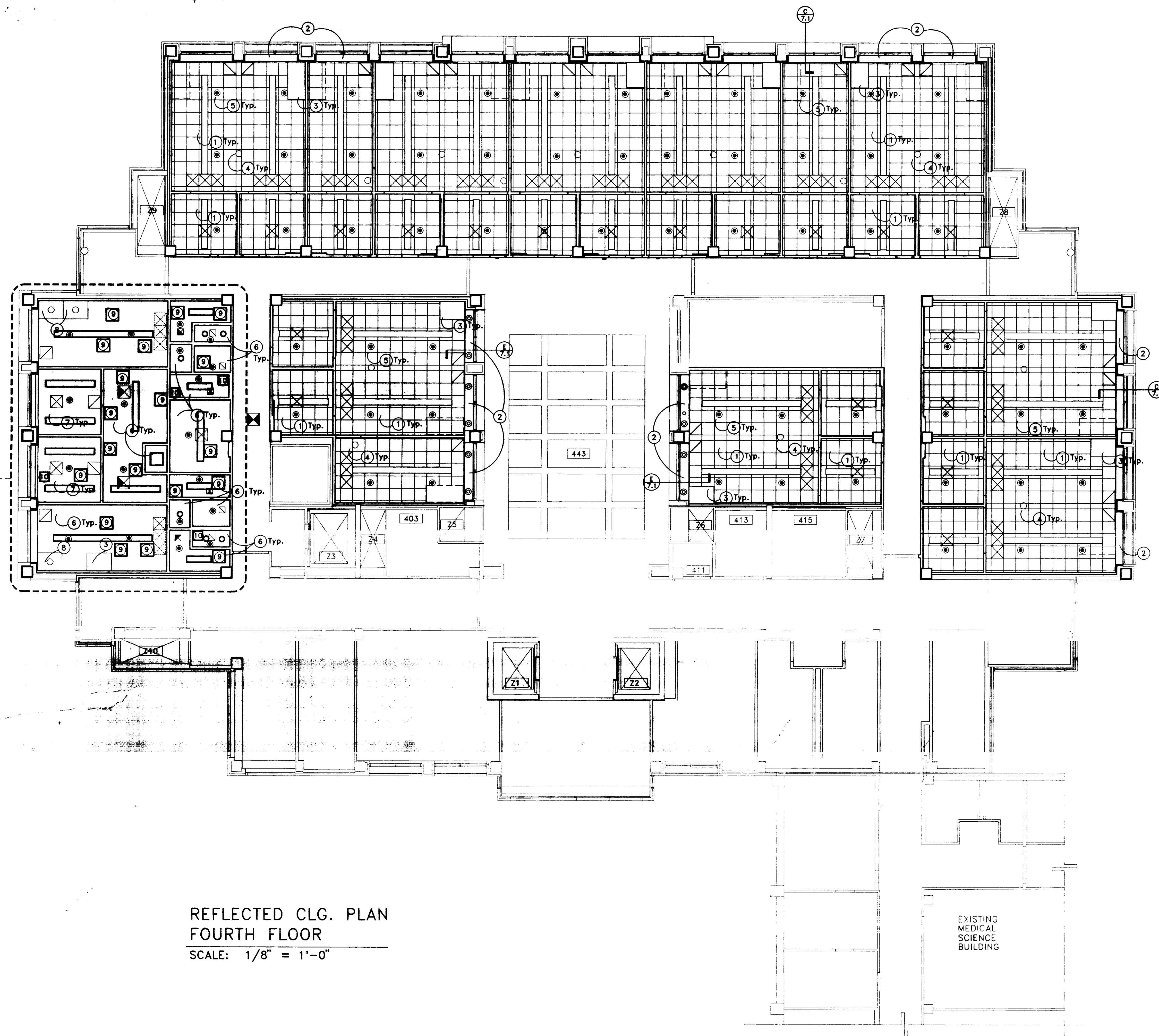








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**REFLECTED CEILING PLAN LEGEND**

- FLUORESCENT LIGHT FIXTURE
- ▬ SUSPENDED UP/DOWN LIGHT FIXTURE
- DOWNLIGHT
- ⊗ MECHANICAL SUPPLY
- ⊠ MECHANICAL RETURN
- FUTURE DIFFUSER
- ⊞ SUSPENDED ACOUSTICAL CEILING
- ⊕ EXIT SIGN
- ⊙ SPRINKLER HEAD

**REFLECTED CEILING NOTES PLAN LEGEND**

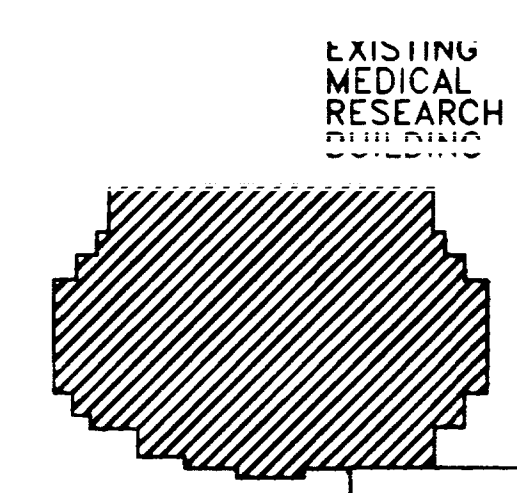
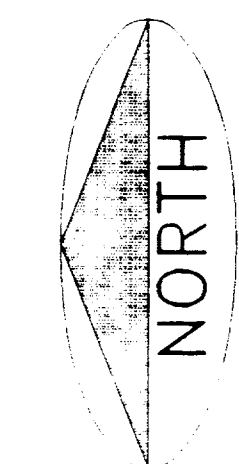
- ① CEILING TYPE ACT-1: 24"x24"x5/8" FORMED MINERAL FIBER WITH VINYL FACED SURFACE, WHITE ALUMINUM GRID
- ② GYP. BD. SOFFIT
- ③ FUME HOOD ENCLOSURE THRU CEILING
- ④ EMERGENCY SHOWER, SEE MECHANICAL
- ⑤ SPRINKLER HEAD, SEE MECHANICAL
- ⑥ GYPSUM BOARD CEILING
- ⑦ EXT. GRADE GYP. BD.
- ⑧ BIO-SAFETY CABINET EXHAUST DUCT
- ⑨ 24"x24" ACCESS PANEL
- ⑩ 18"x18" ACCESS PANEL

**GENERAL NOTE:**

REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE TYPES.  
 REFER TO MECHANICAL DRAWINGS FOR DIFFUSER TYPES.

REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBERS OF FIXTURES, DIFFUSERS, SPRINKLER HEADS, AND OTHER CEILING MOUNTED EQUIPMENT. THIS PLAN IS FOR COORDINATION ONLY.

**REFLECTED CLG. PLAN  
 FOURTH FLOOR**  
 SCALE: 1/8" = 1'-0"



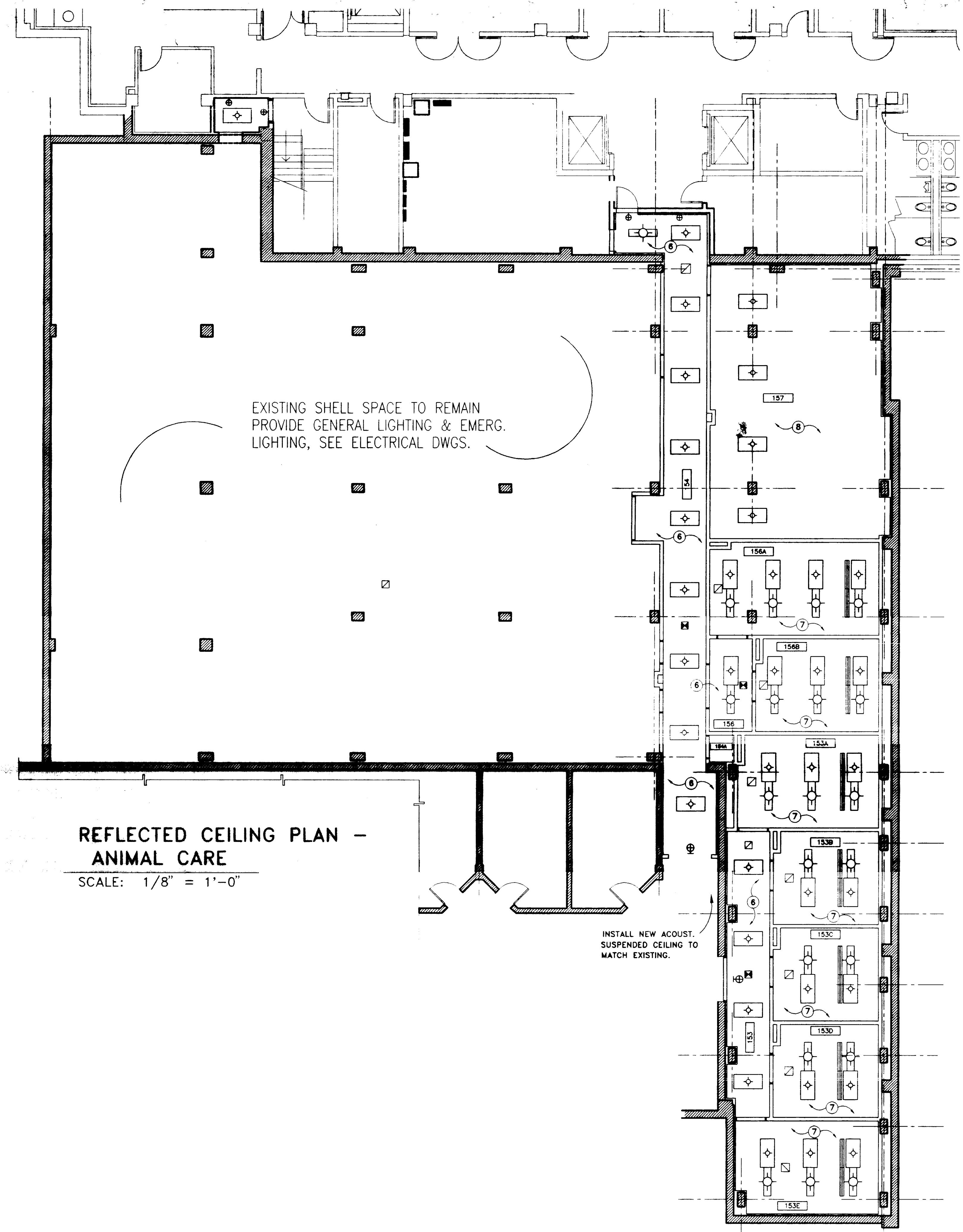
**KEY PLAN**  
 N.T.S.

**EXISTING MEDICAL SCIENCE BUILDING**

**Fourth Floor - Reflected Ceiling Plan**  
**Medical Research Fit-up and Security System**  
**University of Kentucky**  
**Project No. 747.3**

SHT.	PROJECT TITLE
DATE	DEC. 1994
DRAWN BY	J.B. B.C.J.
CHECKED BY	J.B.
REVISION	
DATE	
SHEET NUMBER	
<b>6.1</b>	
PROJECT NUMBER	00840.03





REFLECTED CEILING PLAN - ANIMAL CARE  
SCALE: 1/8" = 1'-0"

REFLECTED CEILING PLAN LEGEND

- ⊕ FLUORESCENT LIGHT FIXTURE
- ⊗ MECHANICAL SUPPLY
- ⊘ MECHANICAL RETURN
- ⊕ EXIT SIGN
- ⊕ GAS COLUMN
- ⊕ SURGICAL LIGHT

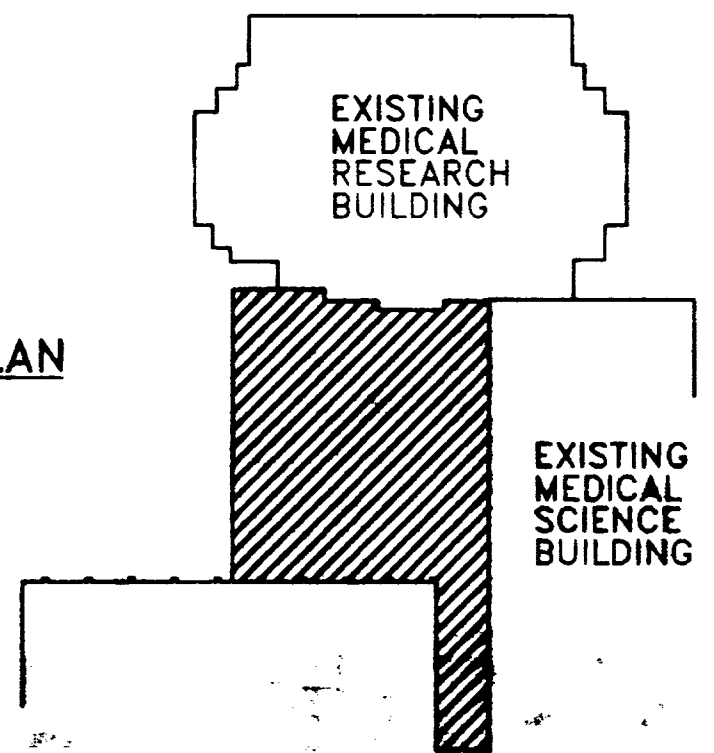
REFLECTED CEILING NOTES PLAN LEGEND

- ① NOT USED
- ② NOT USED
- ③ FUME HOOD ENCLOSURE THRU CEILING.
- ④ EMERGENCY SHOWER, SEE MECHANICAL
- ⑤ SPRINKLER HEAD, SEE MECHANICAL
- ⑥ GYPSUM BOARD CEILING
- ⑦ EXTERIOR GRADE GYPSUM BOARD CEILING
- ⑧ EXPOSED STRUCTURE

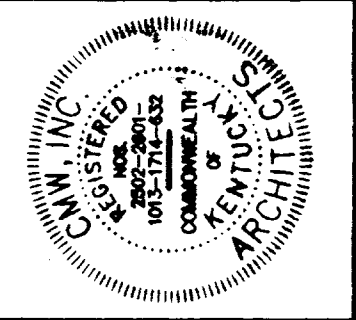
GENERAL NOTE:

REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE TYPES.  
REFER TO MECHANICAL DRAWINGS FOR DIFFUSER TYPES.  
REFER TO ROOM FINISH SCHEDULE FOR ADDITIONAL INFORMATION

KEY PLAN  
N.T.S.



FINAL DOCUMENTS



FAILURE TO ADHERE TO THESE CONDITIONS OF CONTRACT MAY BE PENALIZED BY THE ARCHITECT. THE ARCHITECT'S LIABILITY IS LIMITED TO THE AMOUNT OF THE FEE PAID TO THE ARCHITECT.

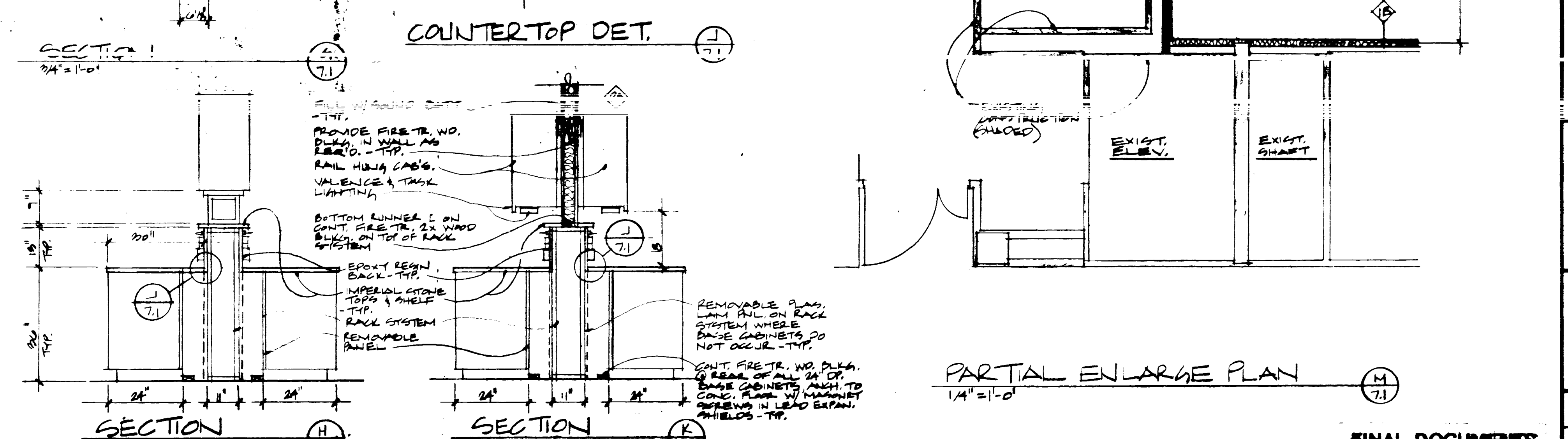
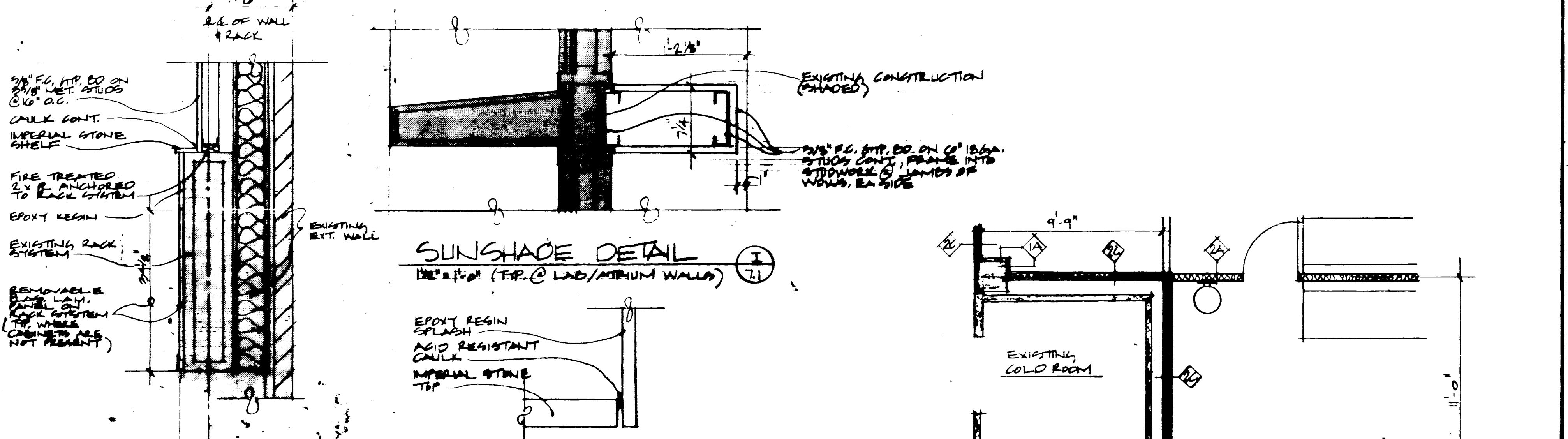
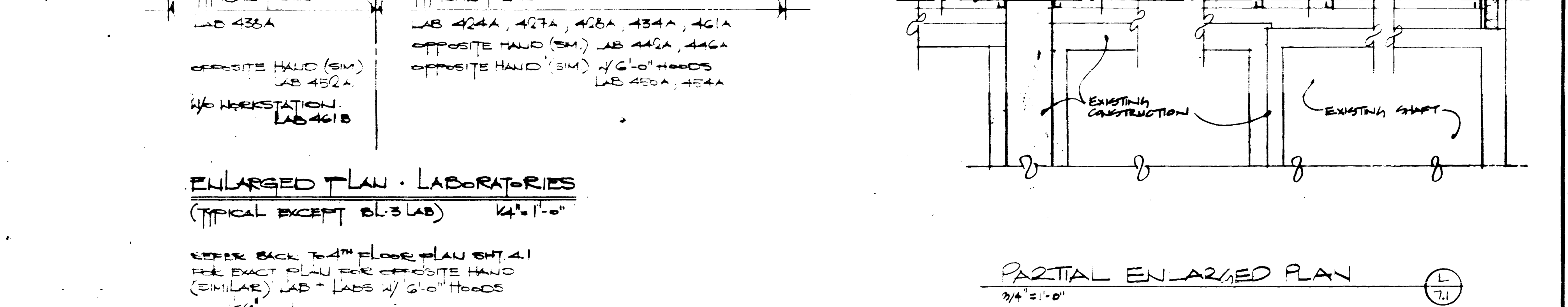
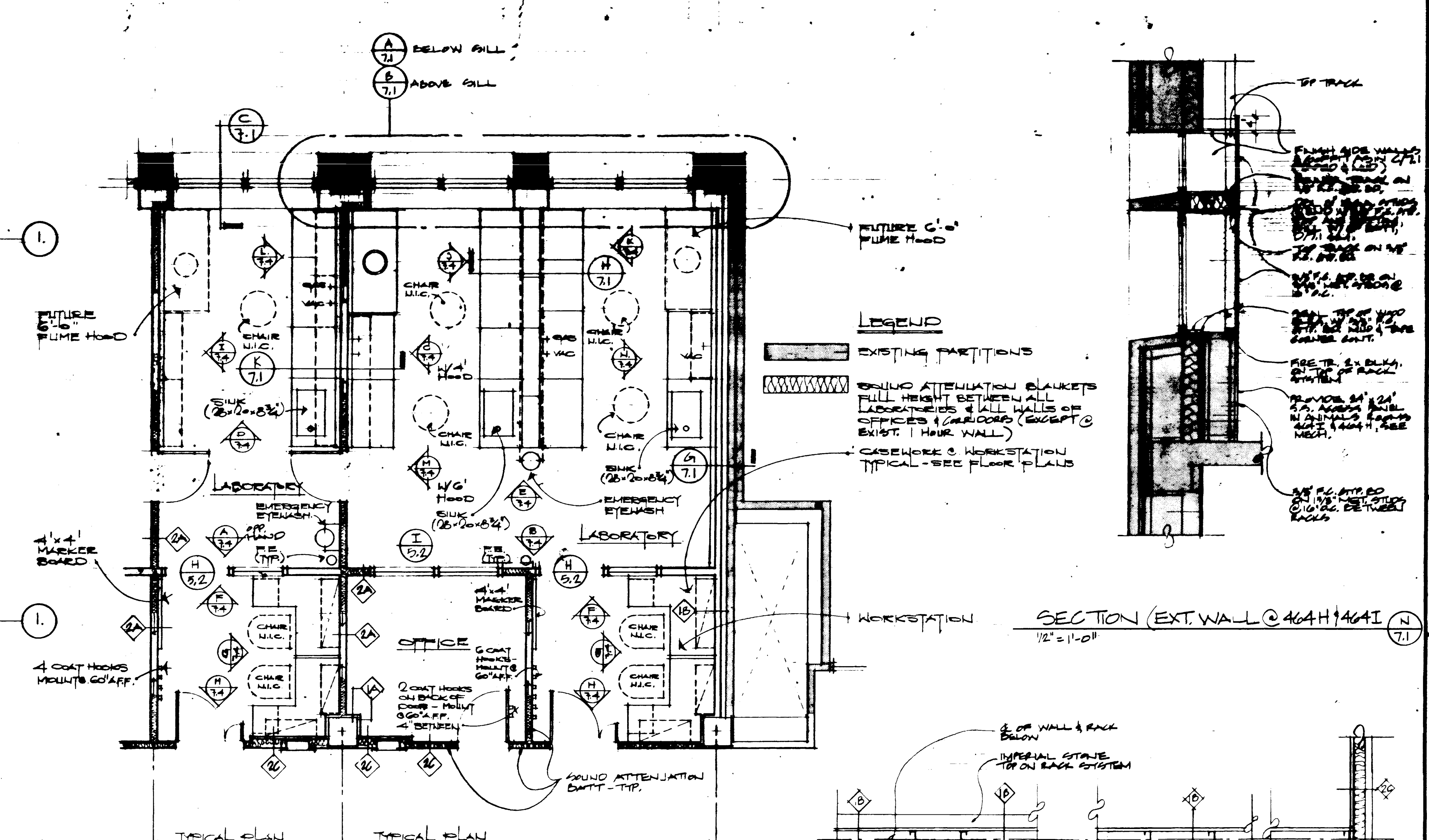
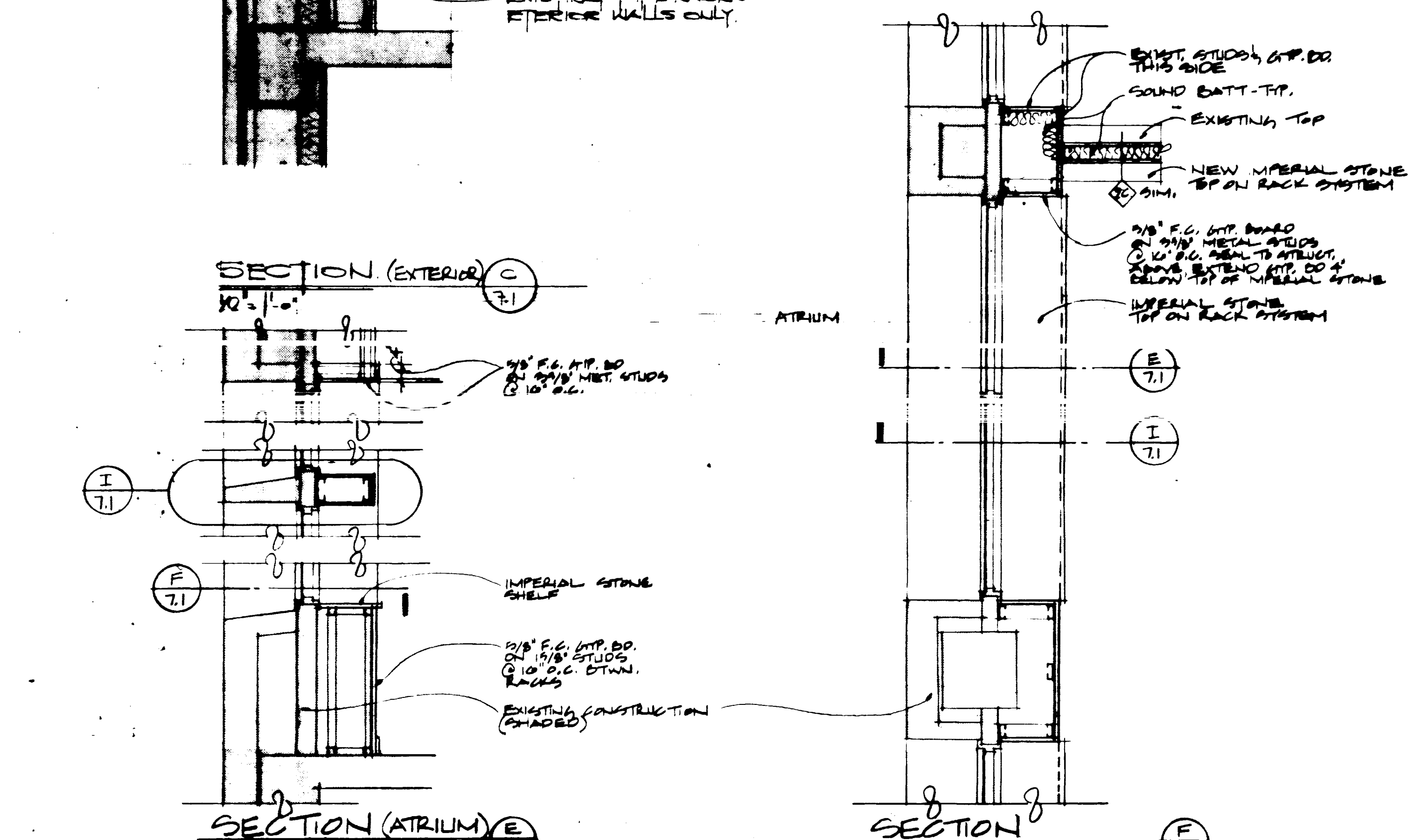
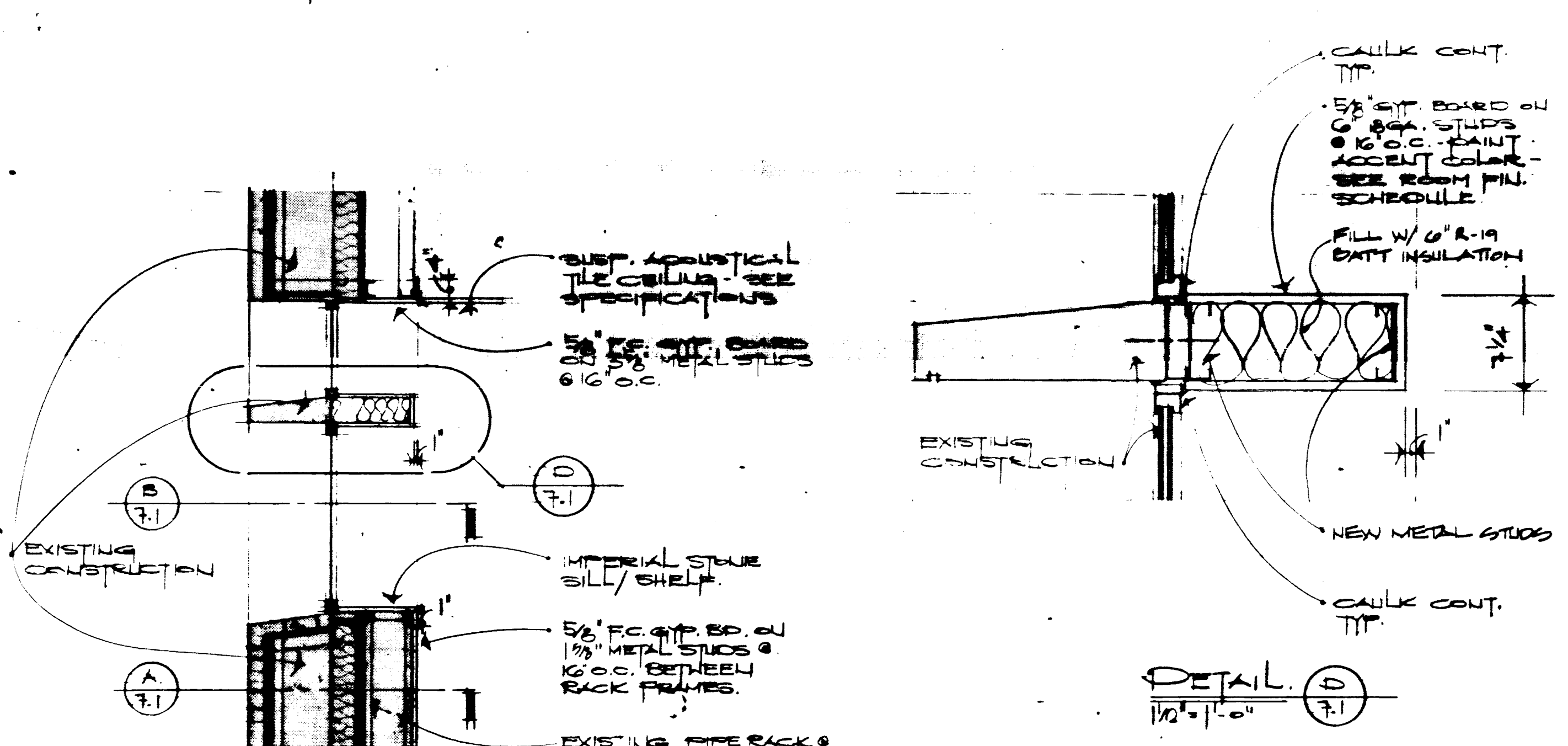
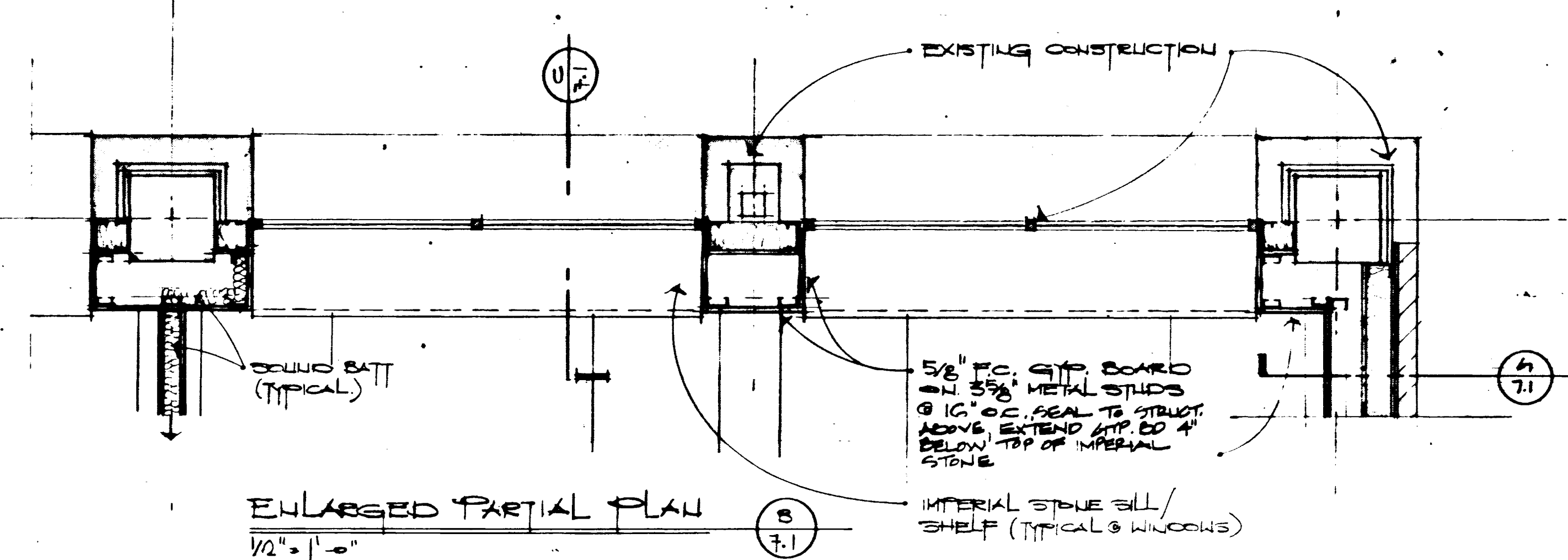
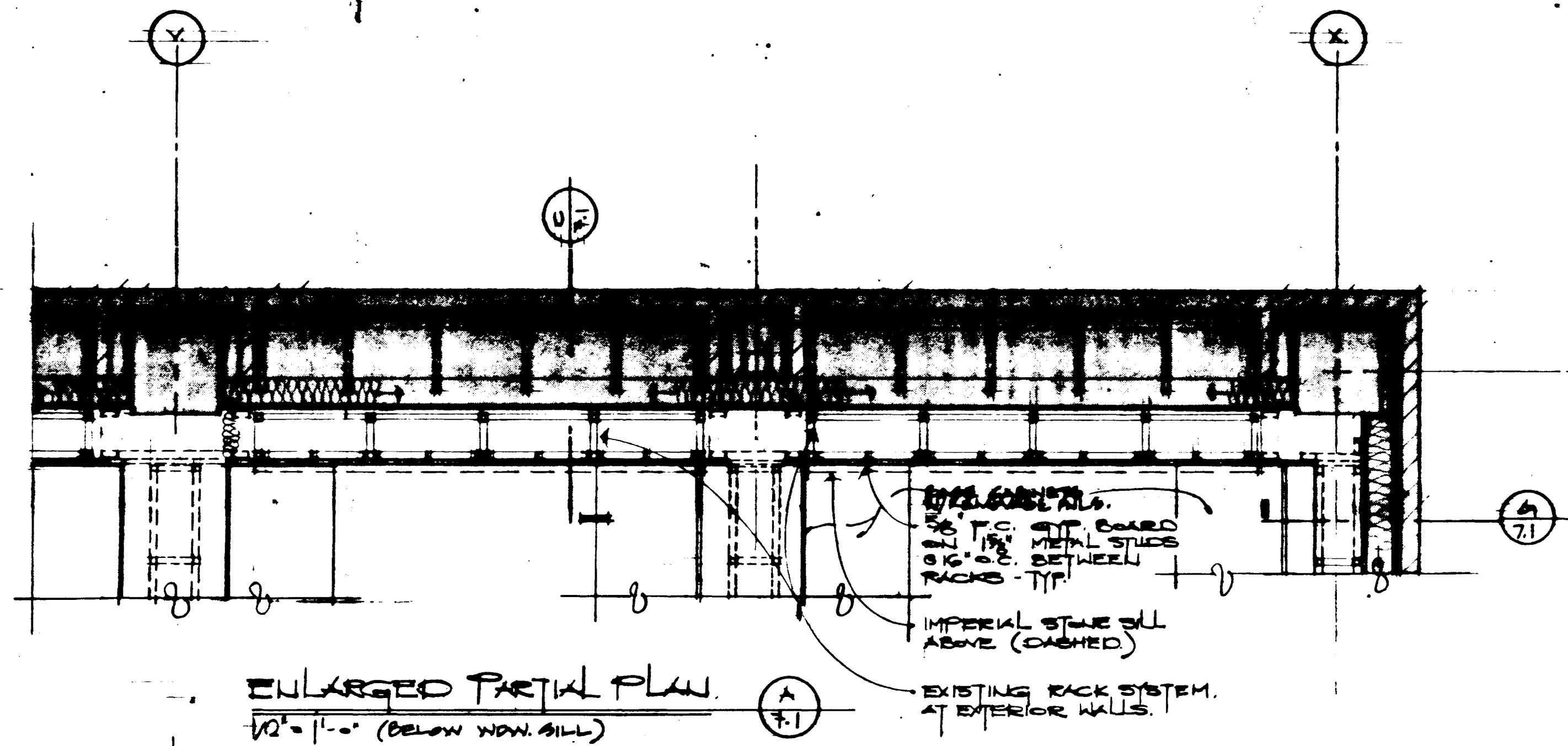
Animal Care Reflected Ceiling Plan

Medical Research Fit-up and Security System  
University of Kentucky  
Project No. 747.3

SHT. PROJECT TITLE  
DATE DEC. 1994  
DRAWN BY J.B. BCU  
CHECKED BY J.B. DW  
REVISIONS  
DATE 1  
2  
3  
4

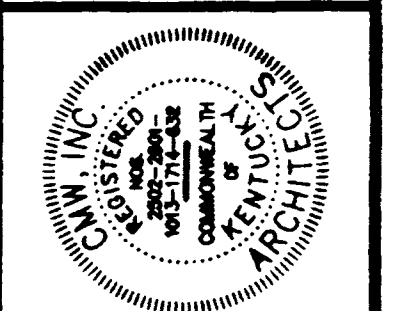
SHEET NUMBER  
**6.2**  
PROJECT NUMBER  
022404



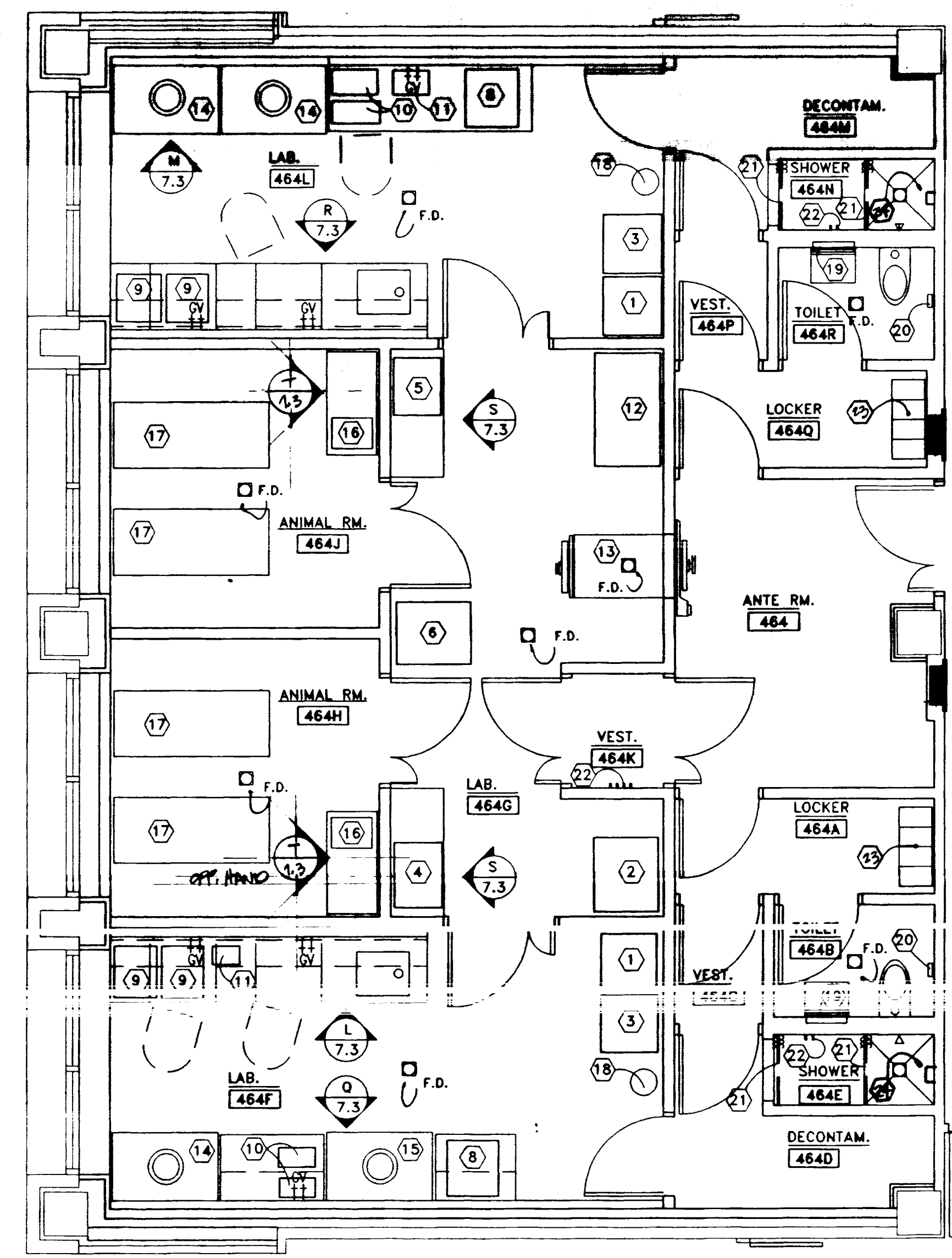
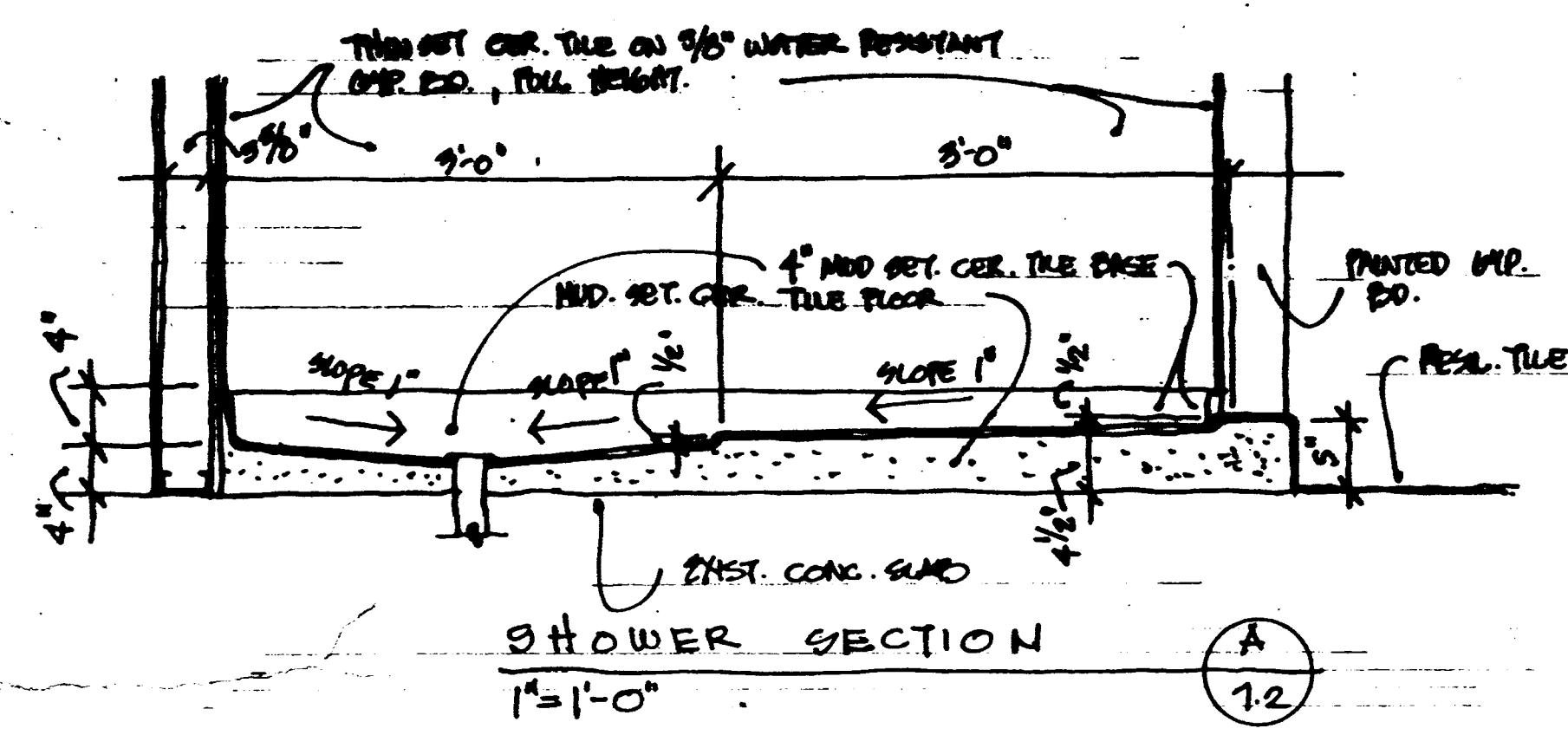


DATE:	PROJECT TITLE:
DRAWN BY:	747.3
CHECKED BY:	
REVISED:	
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SHEET NUMBER:	7.1
PROJECT NUMBER:	



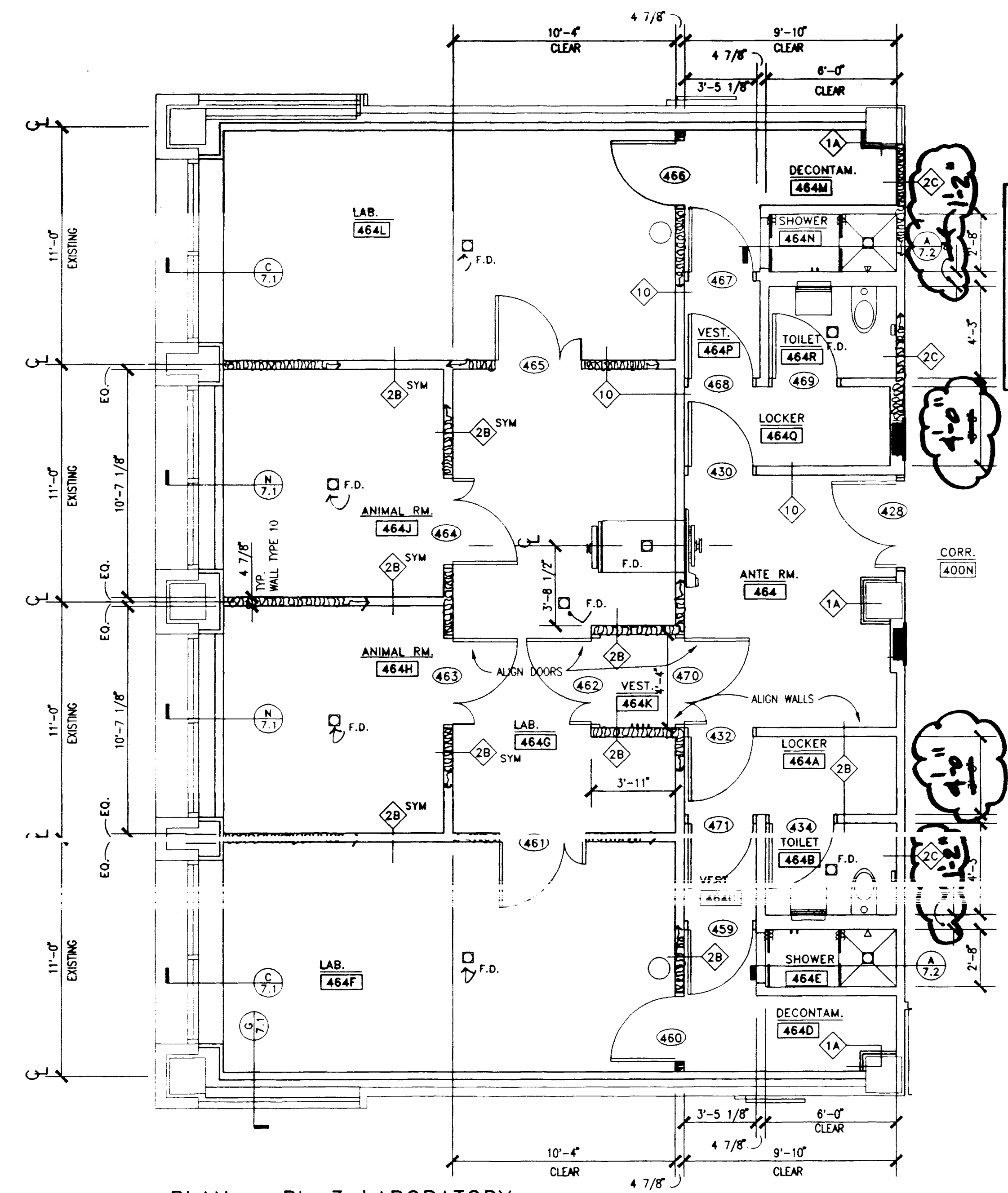


FAILURE TO ADHERE TO THESE SPECIFICATIONS OR TO THE DESIGN OR CONSTRUCTION OF THE PROJECT MAY BE CAUSAL IN THE EVENT OF A LITIGATION AND MAY BE SUBJECT TO PENALTY UNDER FEDERAL AND STATE LAWS.



**EQUIPMENT PLAN - BL-3 LABORATORY**  
 SCALE: 1/4" = 1'-0"

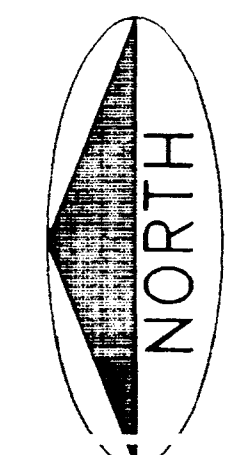
- EQUIPMENT PLAN LEGEND :**  
 SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION
- 1 2 EA. KENMORE REFRIGERATORS (MODEL 46-64001) (NIC)
  - 2 1 EA. - 20' C FREEZER (MODEL 46-23431) (NIC)
  - 3 2 EA. FORMA CO<sub>2</sub> INCUBATORS (MODEL 3187) (NIC)
  - 4 1 EA. BECKMAN OPTIMA TLX TABLET ULTRACENTRIFUGE (NIC)
  - 5 1 EA. BECKMAN J2-HS HIGH-SPEED CENTRIFUGE (NIC)
  - 6 2 EA. ROTOR FOR THE J2-HS CENTRIFUGE (JA-17 AND JA-10) -NOT SHOWN (NIC)
  - 7 2 EA. FISHER ISOTEMP 6550 LAB INCUBATORS (NIC)
  - 8 4 EA. NEW BRUNSWICK SCIENTIFIC GYROTORY G76 WATER BATH SHAKERS (NIC)
  - 9 4 EA. FISHER WATER BATHS (20-LITER MODEL) (NIC)
  - 10 2 EA. FISHER MARATHON 13K/M MICROCENTRIFUGES (NIC)
  - 11 1 EA. SANYO -152' C ULTRALOW FREEZER (NIC)
  - 12 AMSCO EAGLE 3000 STERILIZER/CHAMBER SIZE - 20"W, 20"H, 38"LONG
  - 13 LABCONCO - CLASS 11 TYPE B2-TOTAL EXHAUST SAFETY CABINETS
  - 14 AMSCO 4' FUME HOOD
  - 15 STAINLESS STEEL WORK TABLE WITH 14"x18"x5 1/2" DP. INTEGRAL SINK, BACK & END SPLASH, AND ONE (1) BOTTOM SHELF.
  - 16 ANIMAL CAGE RACKS - (NIC)
  - 17 SAFETY STATION (DELUGE SHOWER AND EYE/FACE WASH) - SEE PLUMBING DWGS.
  - 18 INTEGRAL MIRROR, TOWEL & SOAP DISPENSER
  - 19 TOILET PAPER HOLDER
  - 20 SHOWER ROD AND SHOWER CURTAIN
  - 21 COAT HOOKS - MOUNT AT 66" A.F.F.
  - 22 4 - 12"x12"x72" HIGH SINGLE TIER LOCKERS
  - 23 SOAP DISP



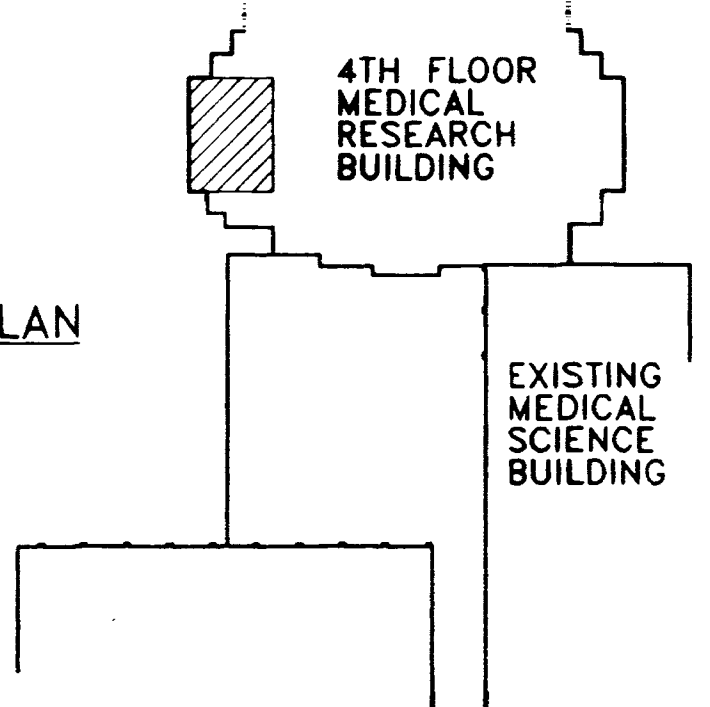
**PLAN - BL-3 LABORATORY**  
 SCALE: 1/4" = 1'-0"

**GENERAL BIOLOGICAL SAFETY LEVEL 3 CONTAINMENT NOTE:**  
 ALL WALLS ON THIS PLAN SHALL BE SEALED TO DECK ABOVE, FLOOR, JOINTS, SCREW HEADS, AND AROUND ALL WALL PENETRATIONS. NO EXCEPTIONS.

SOUND ATTENUATION BLANKETS FULL HEIGHT OF PARTITION

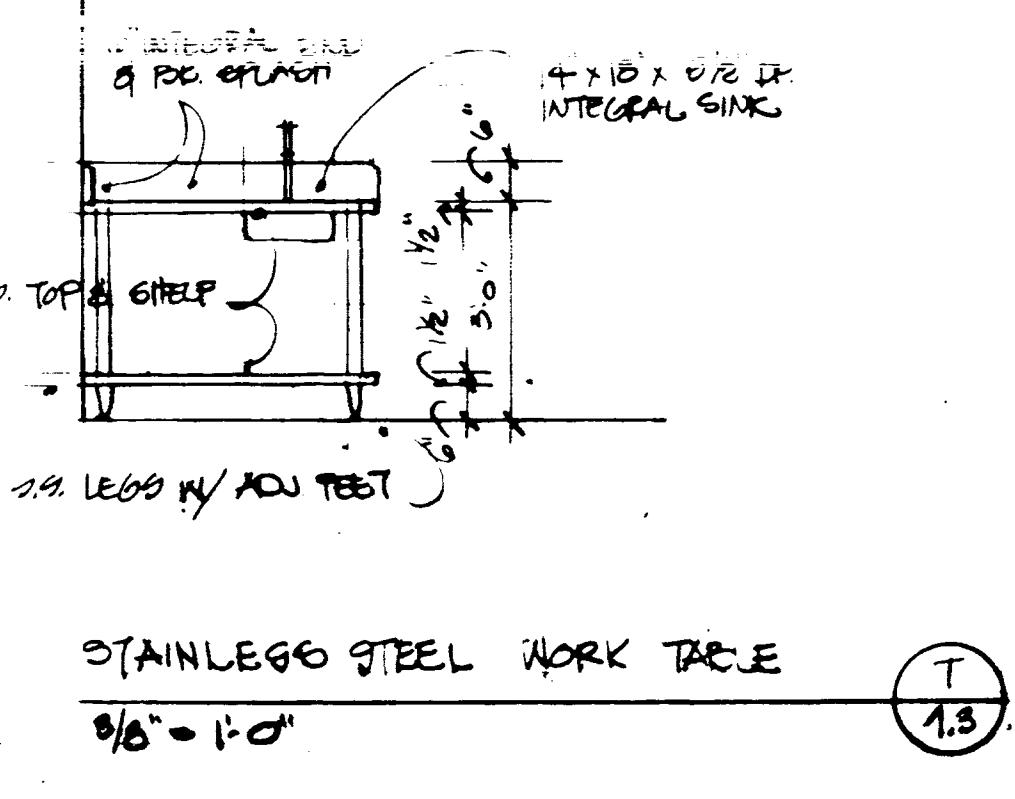
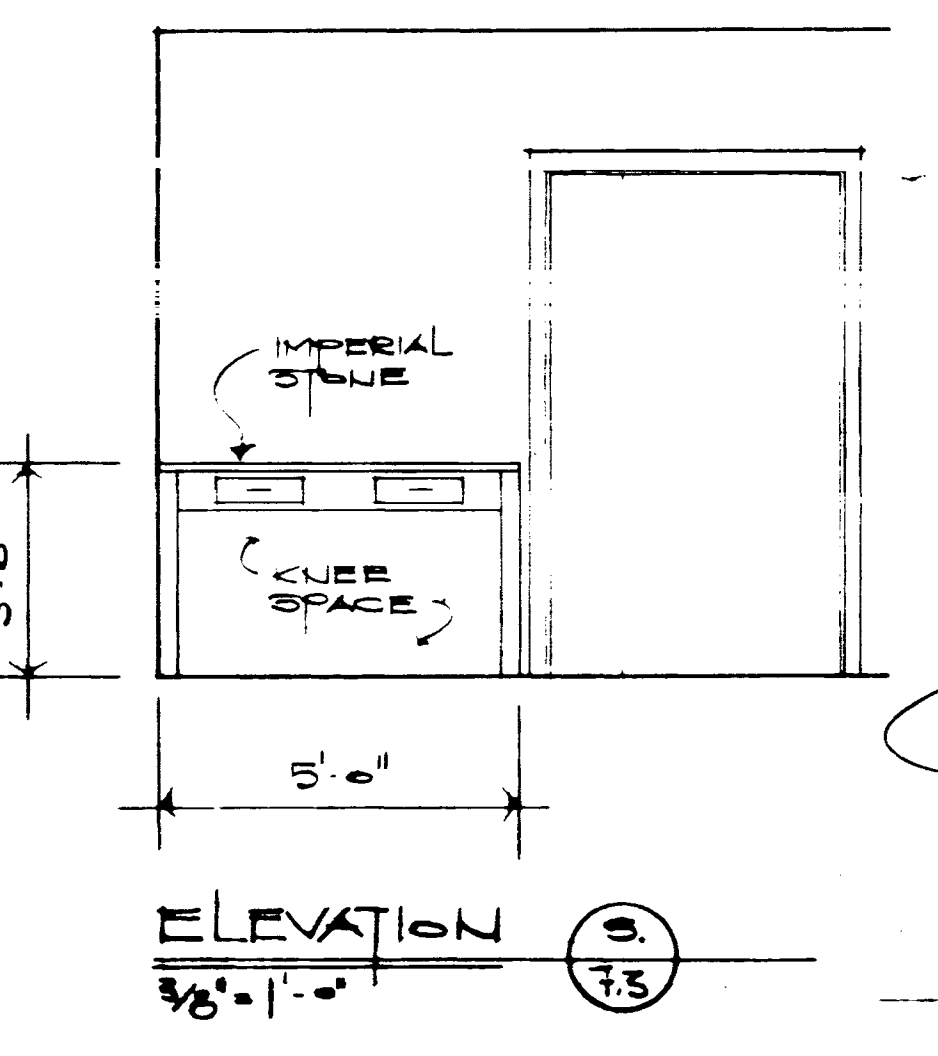
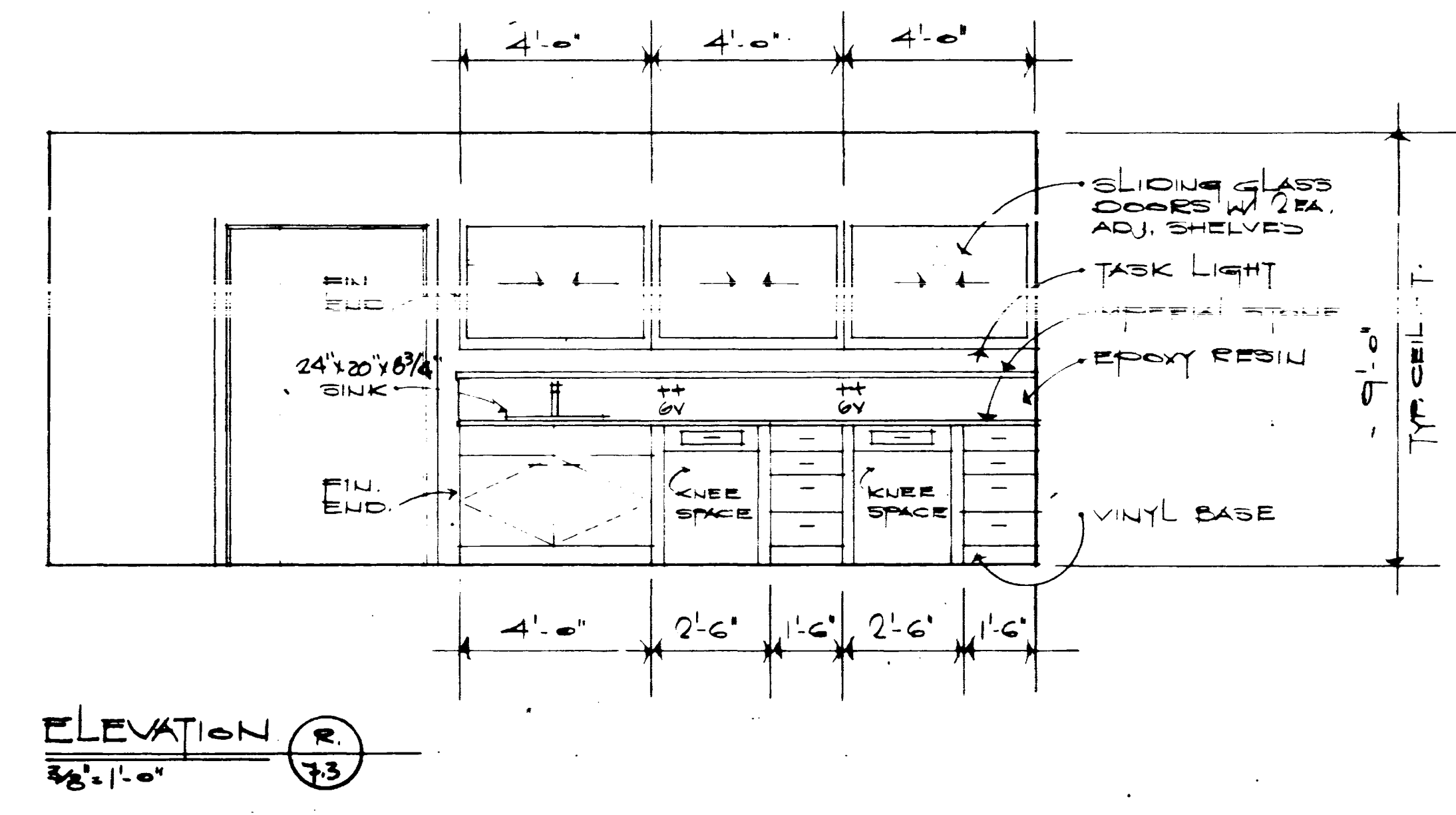
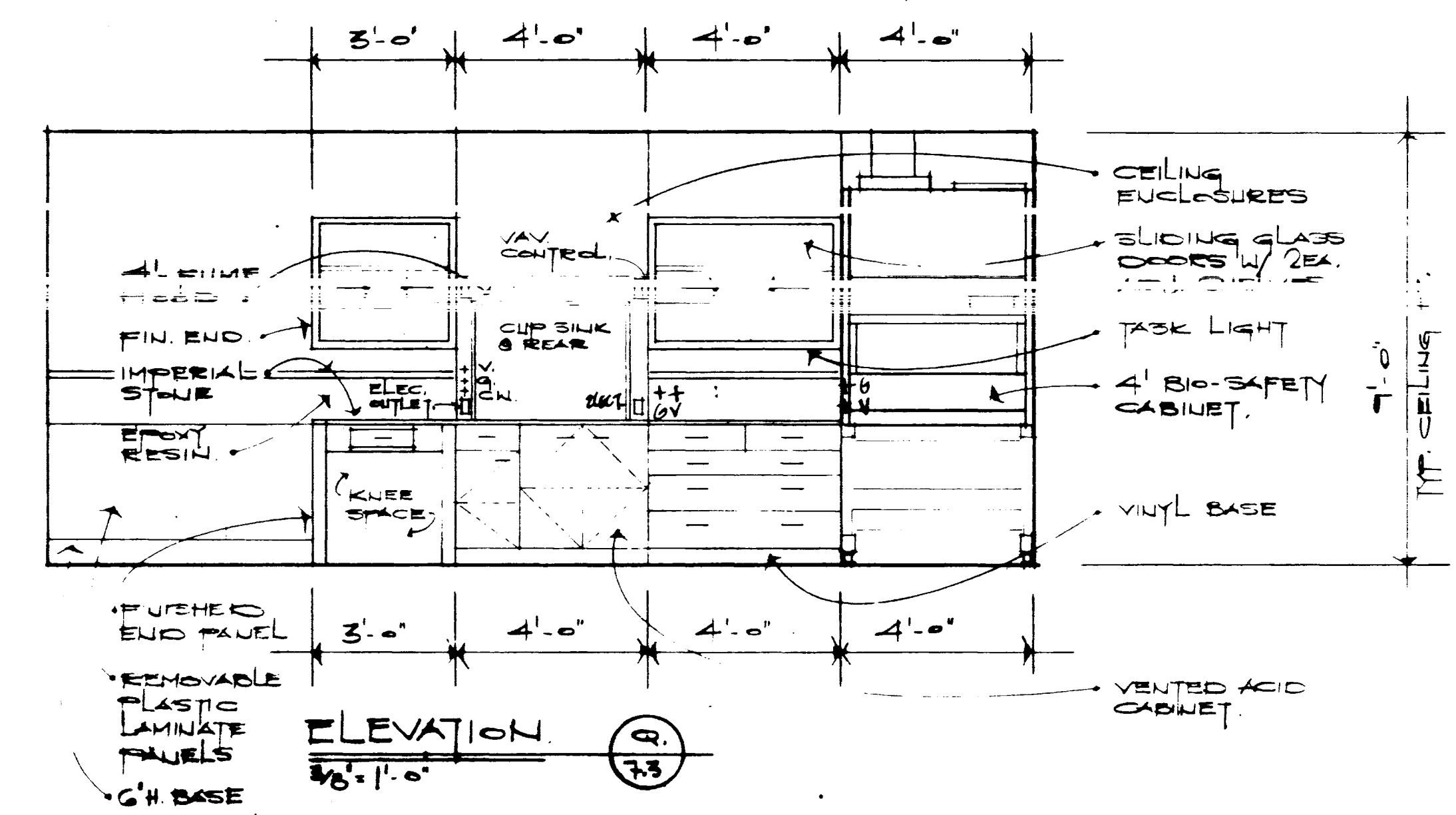
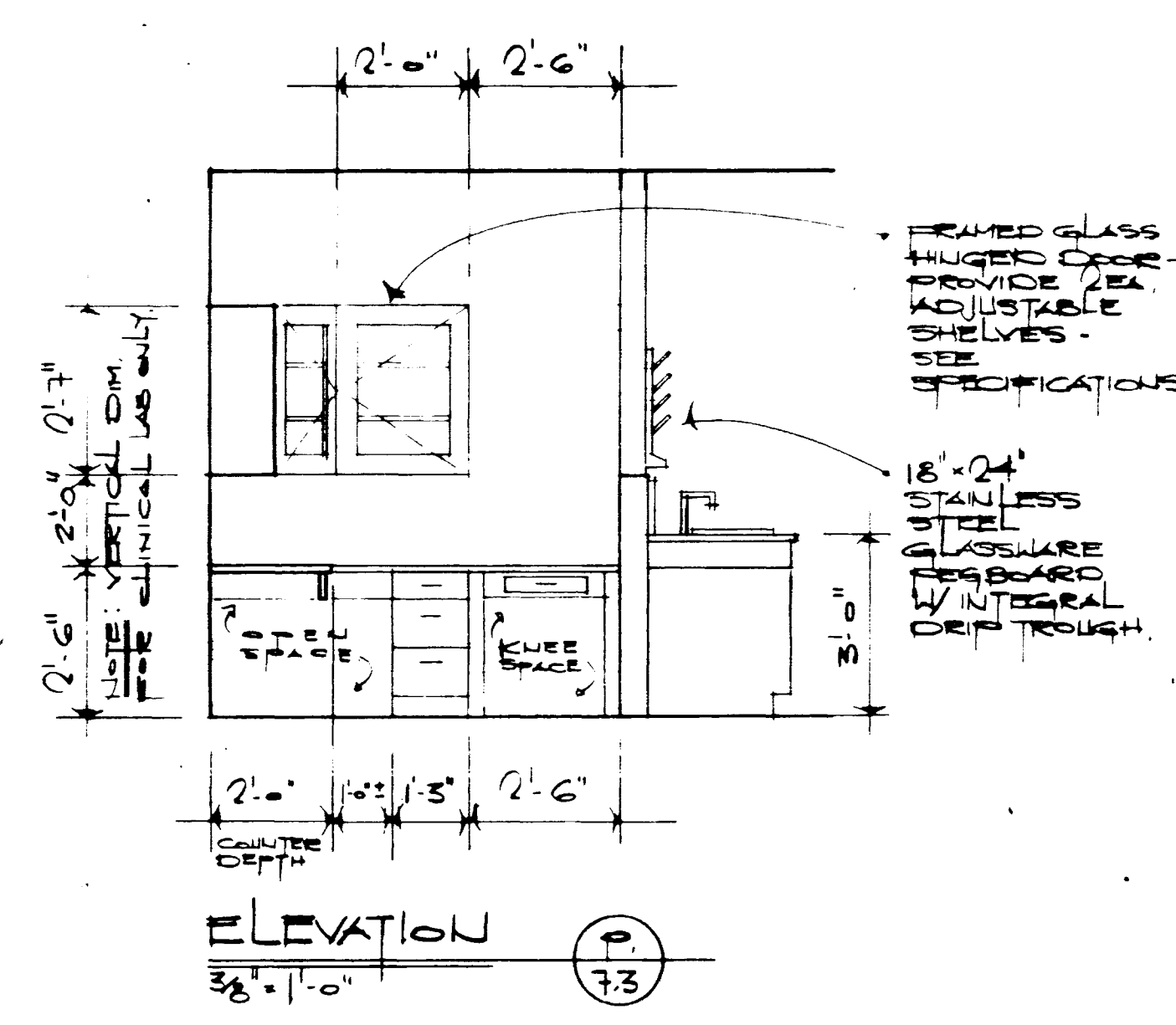
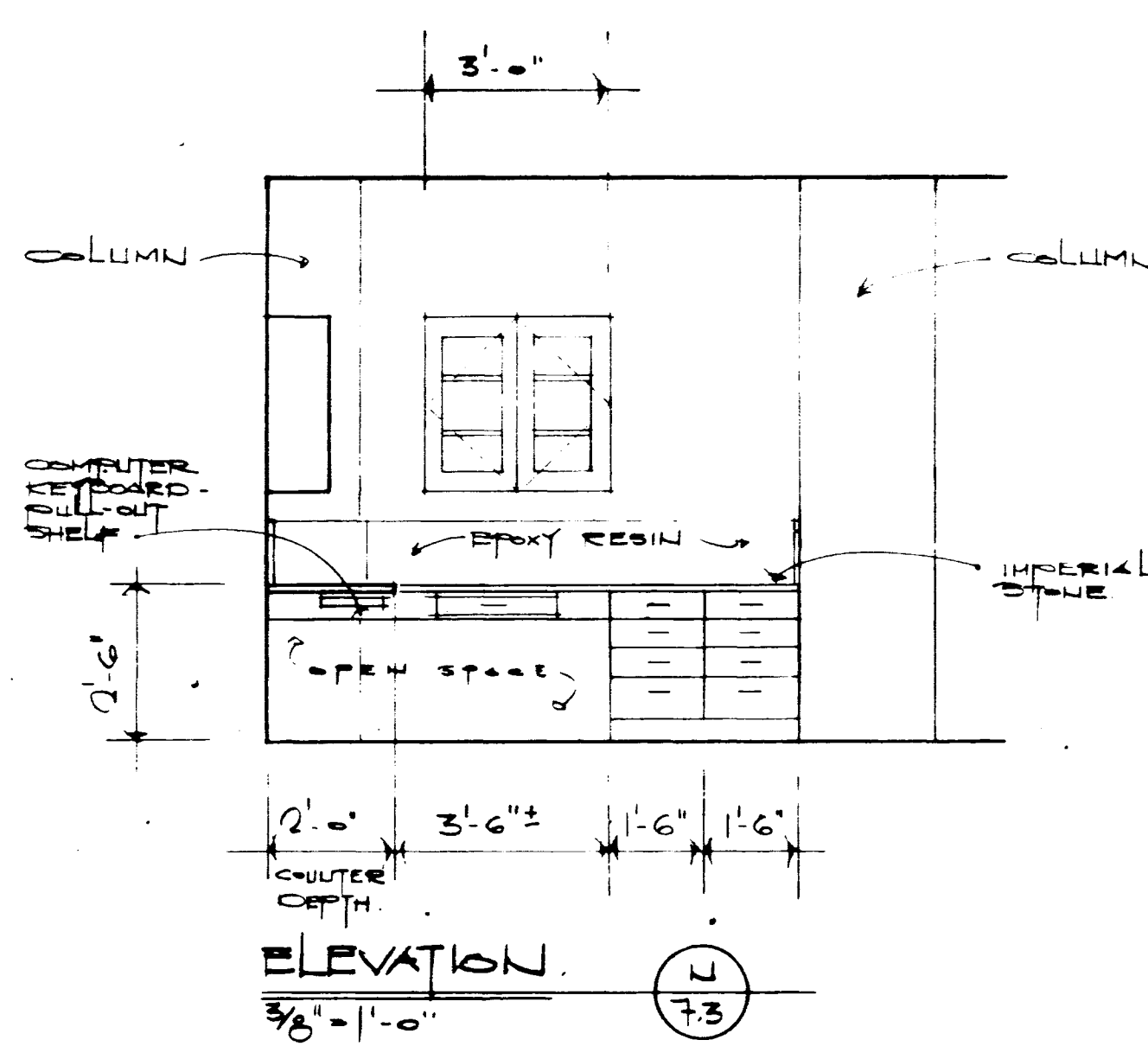
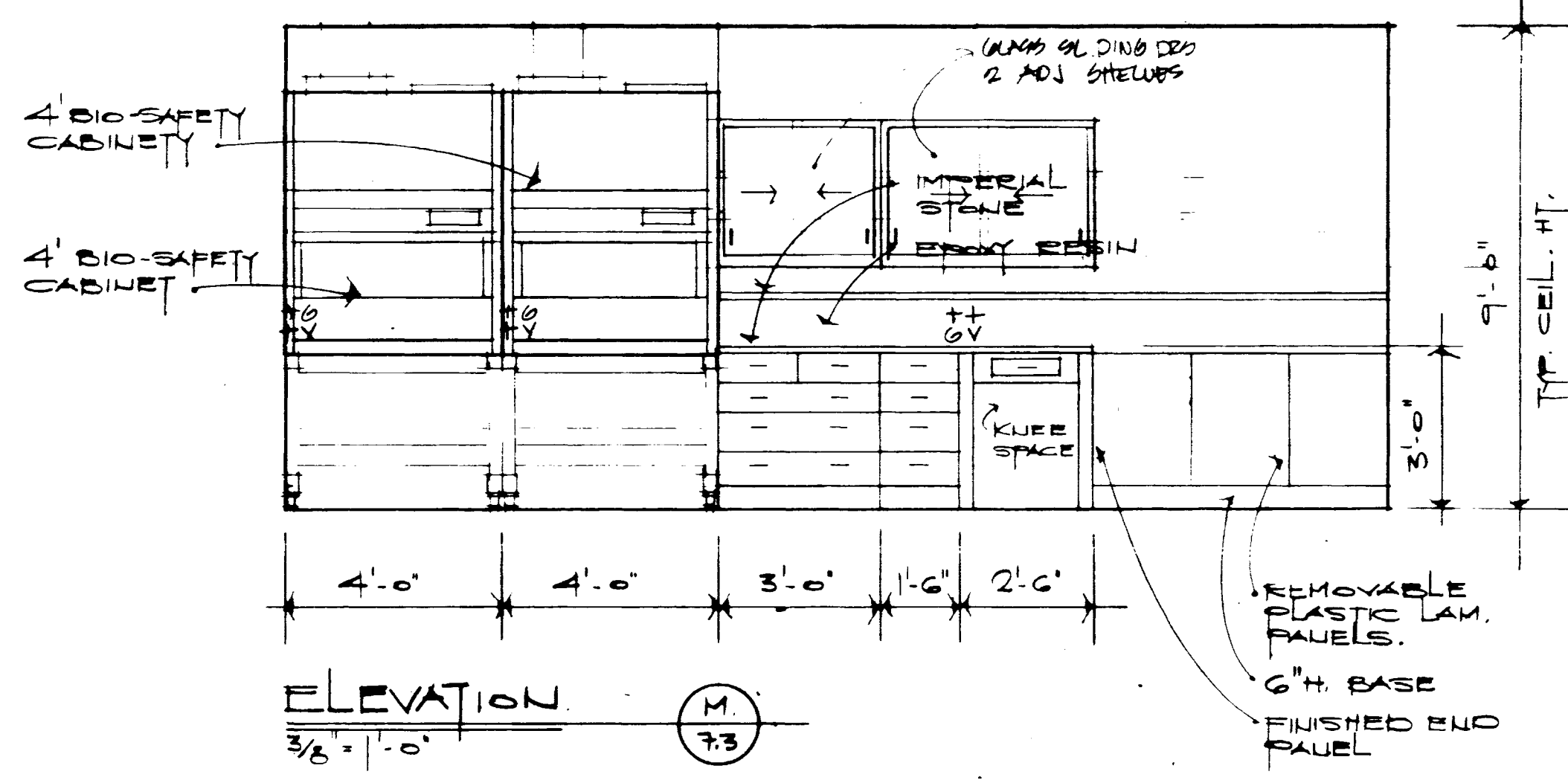
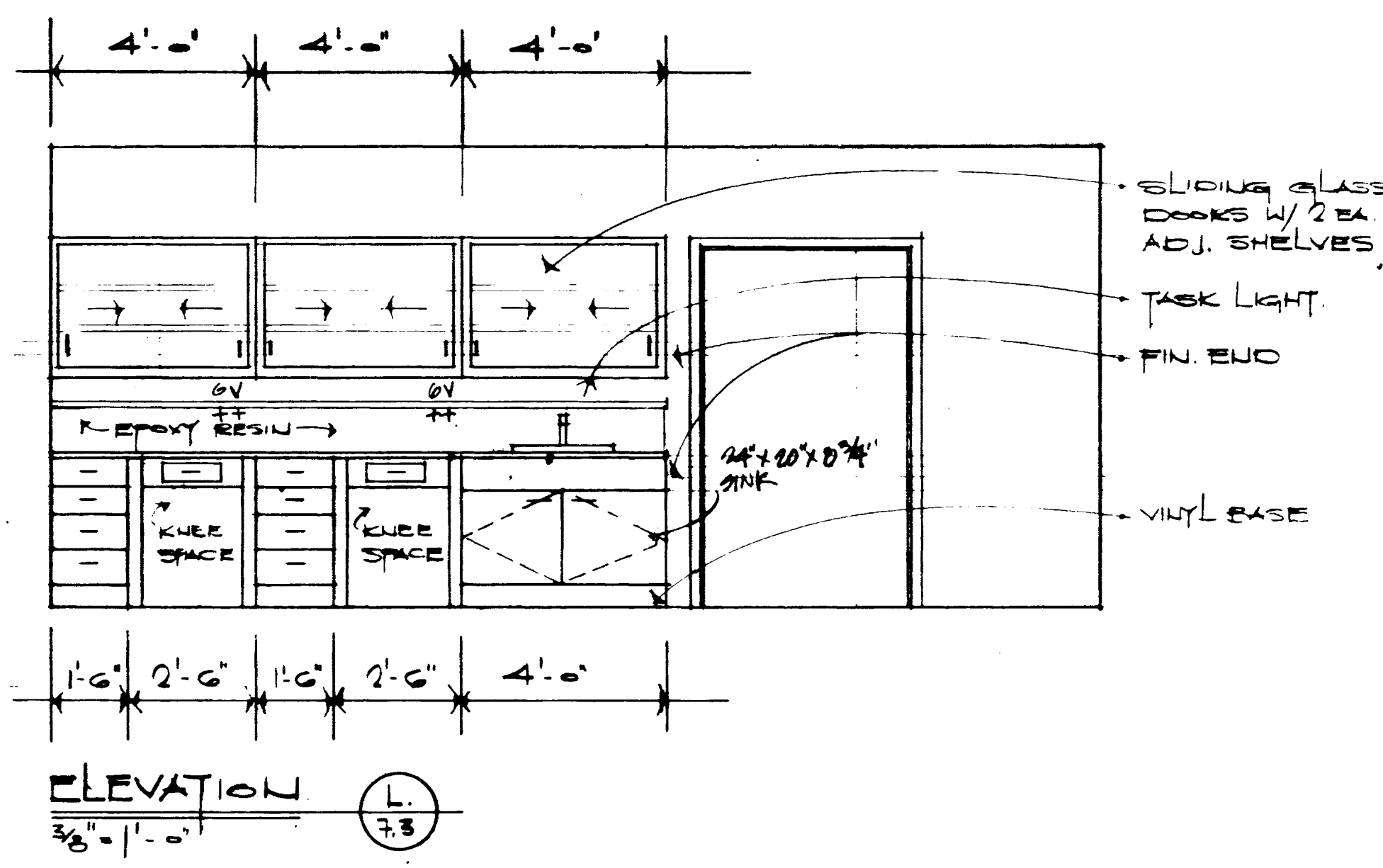


KEY PLAN  
 N.T.S.



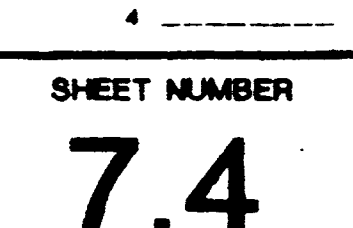
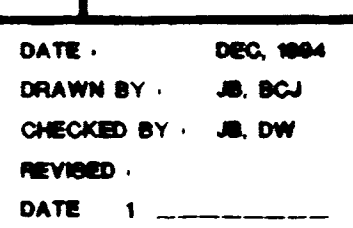
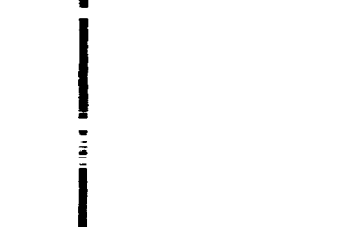
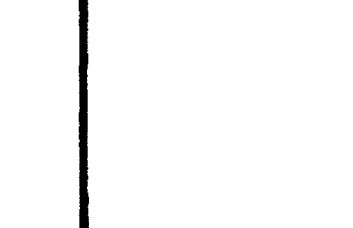
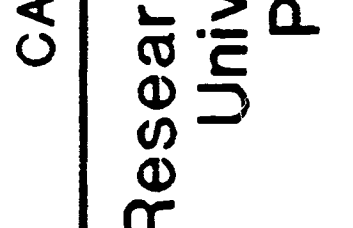
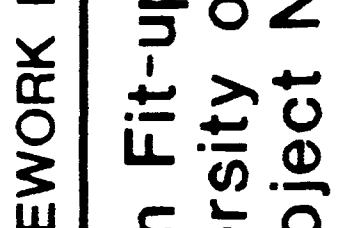
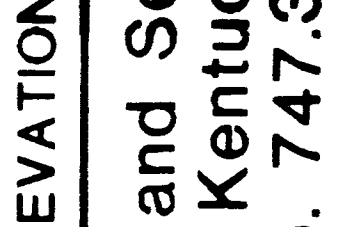
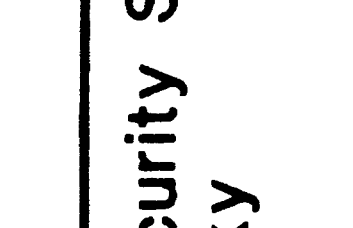
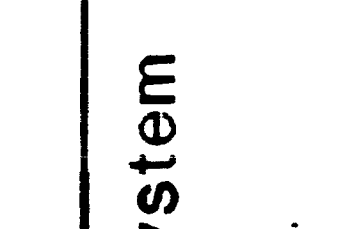
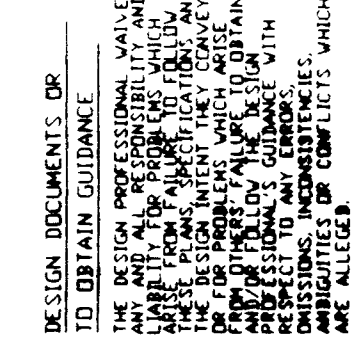
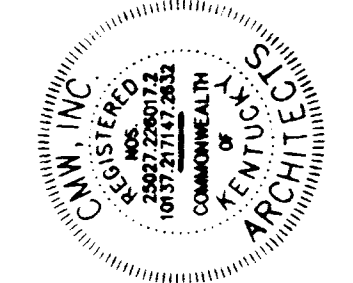
BL-3 Laboratory Floor Plan  
 Medical Research Fit-up and Security System  
 University of Kentucky  
 Project No. 747.3

DATE	DEC. 1994
DRAWN BY	JR. RCJ
CHECKED BY	JR. DW
REVISION	
DATE	
1	
2	
3	
4	
SHEET NUMBER	7.2
PROJECT NUMBER	90240.04



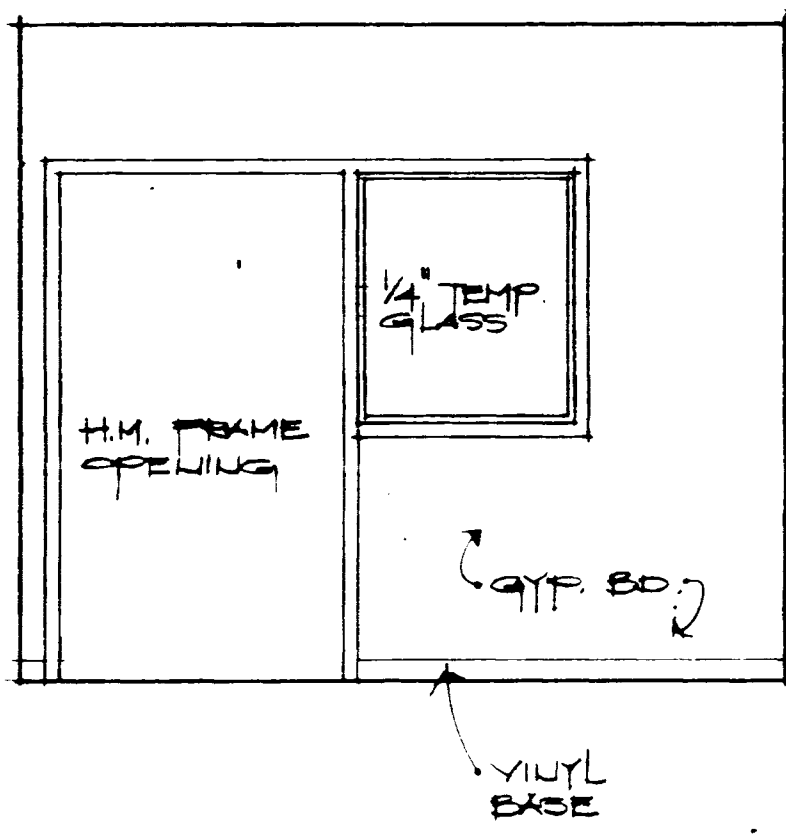
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CHECKED BY	J.B.R.
REVISED	
DATE	
1	
2	
3	
4	
SHEET NUMBER	
7.3	
PROJECT NUMBER	
80240.04	



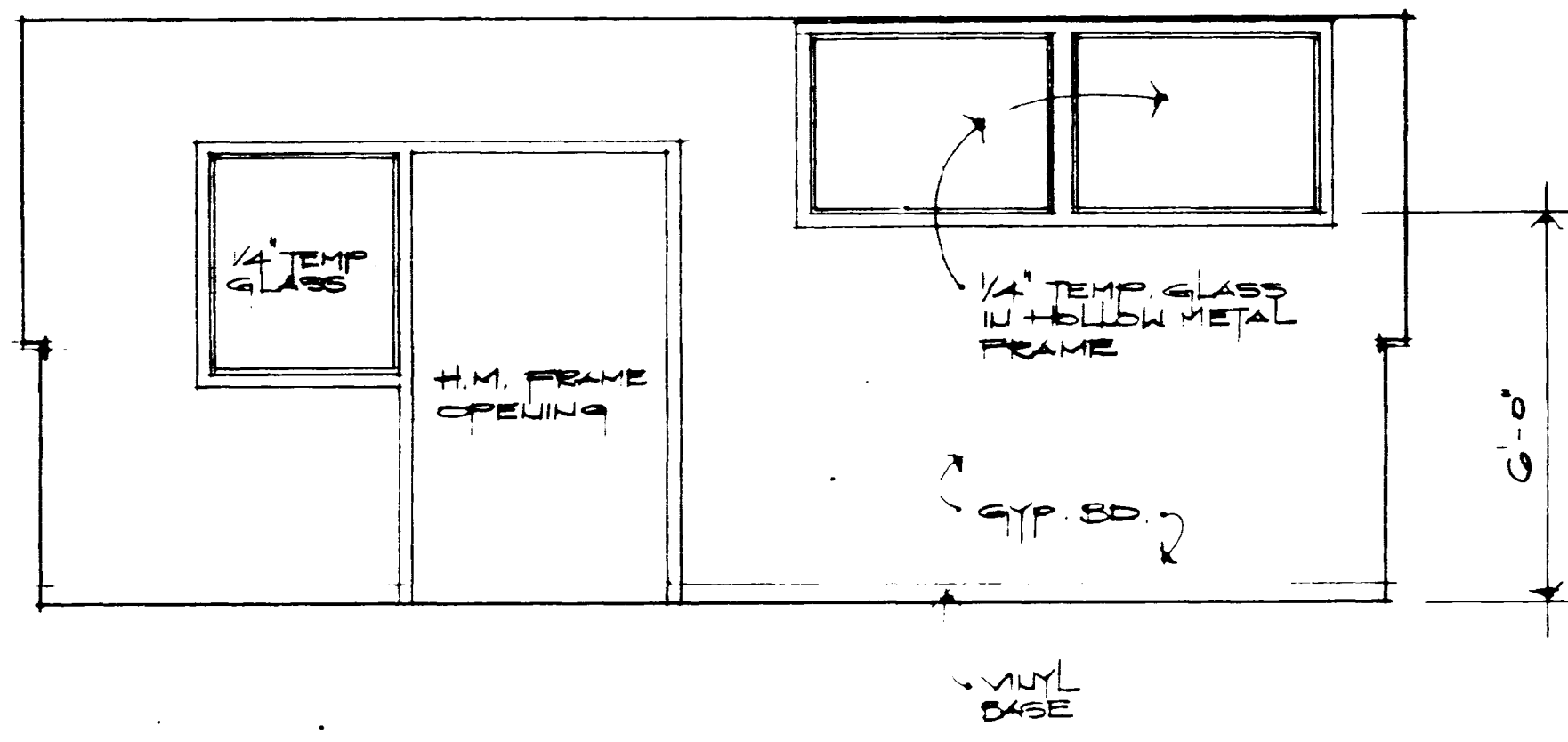


CASEWORK ELEVATIONS  
Medical Research Fit-up and Security System  
University of Kentucky  
Project No. 747.3

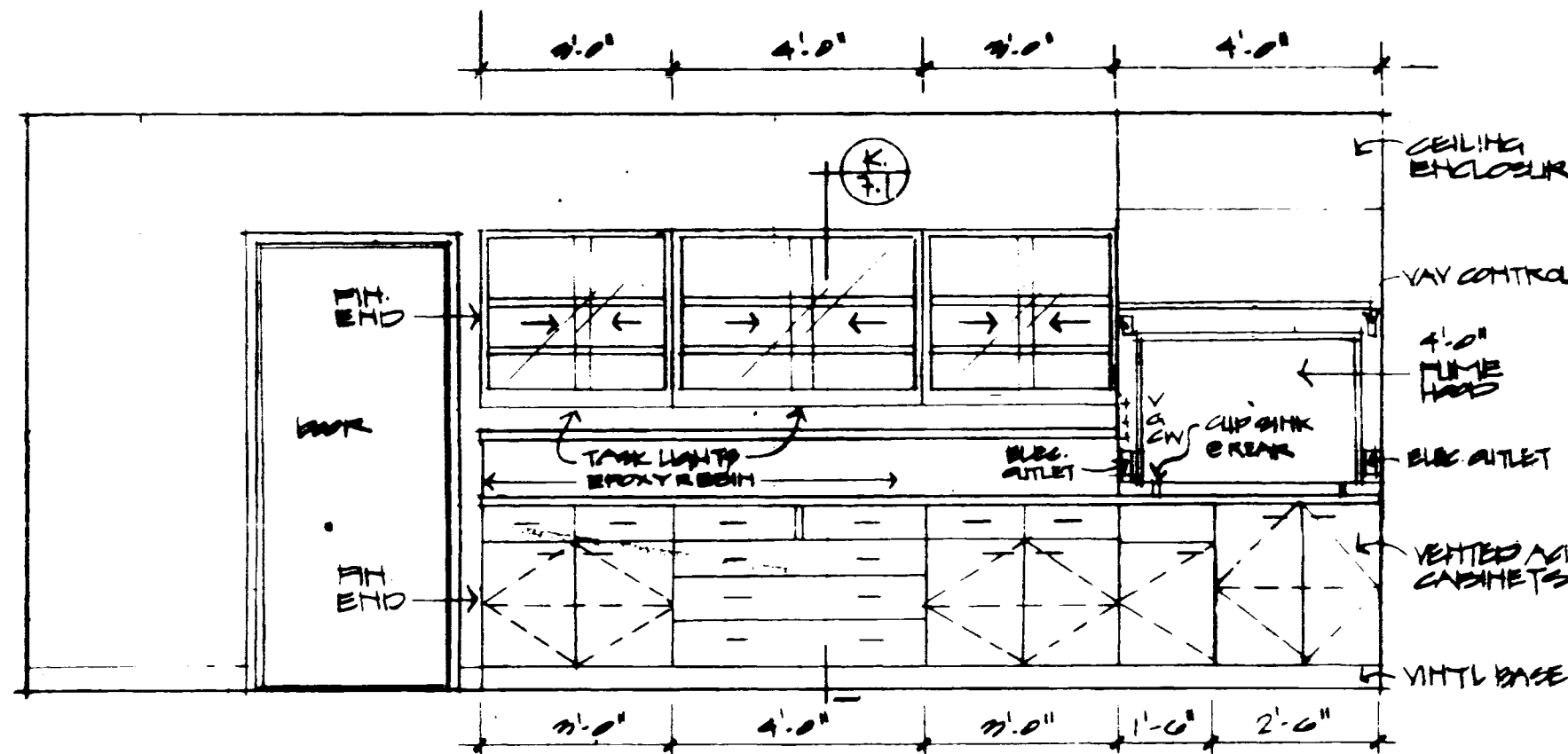
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CHECKED BY	J.B. DW
REVISED	
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PROJECT NUMBER	
90242.04	



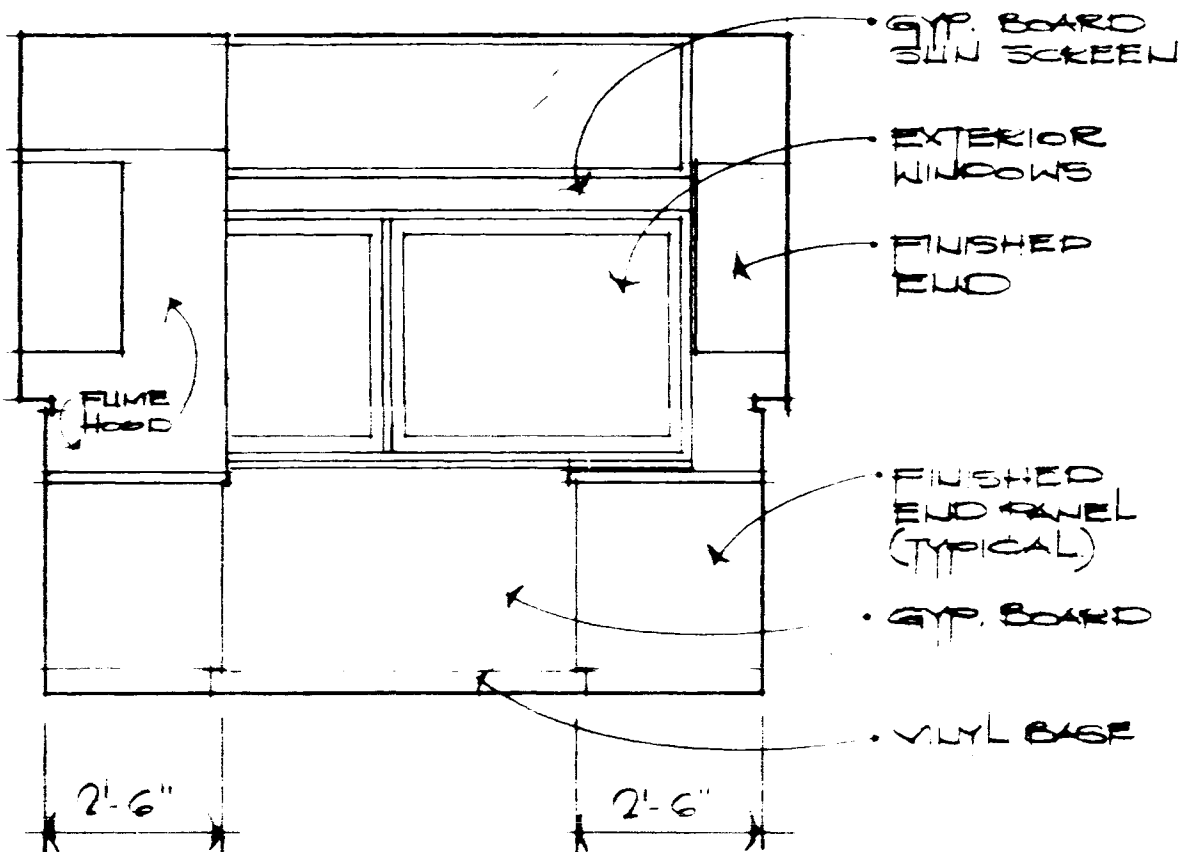
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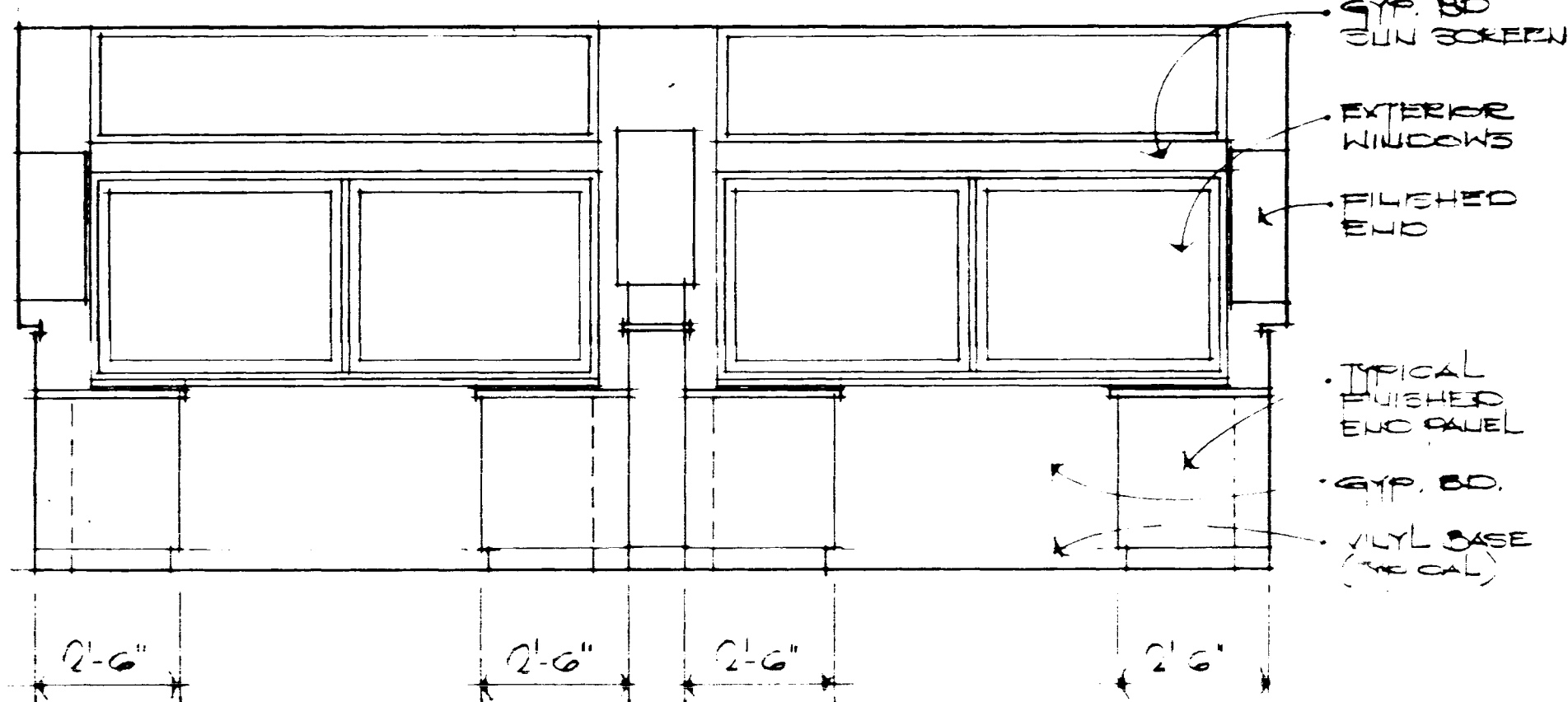
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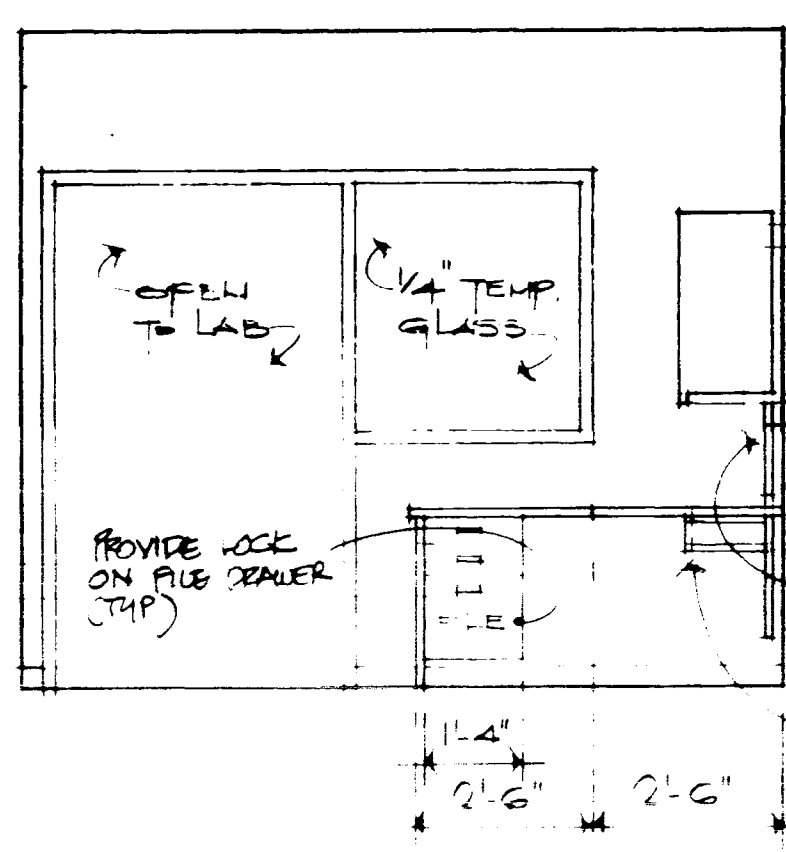
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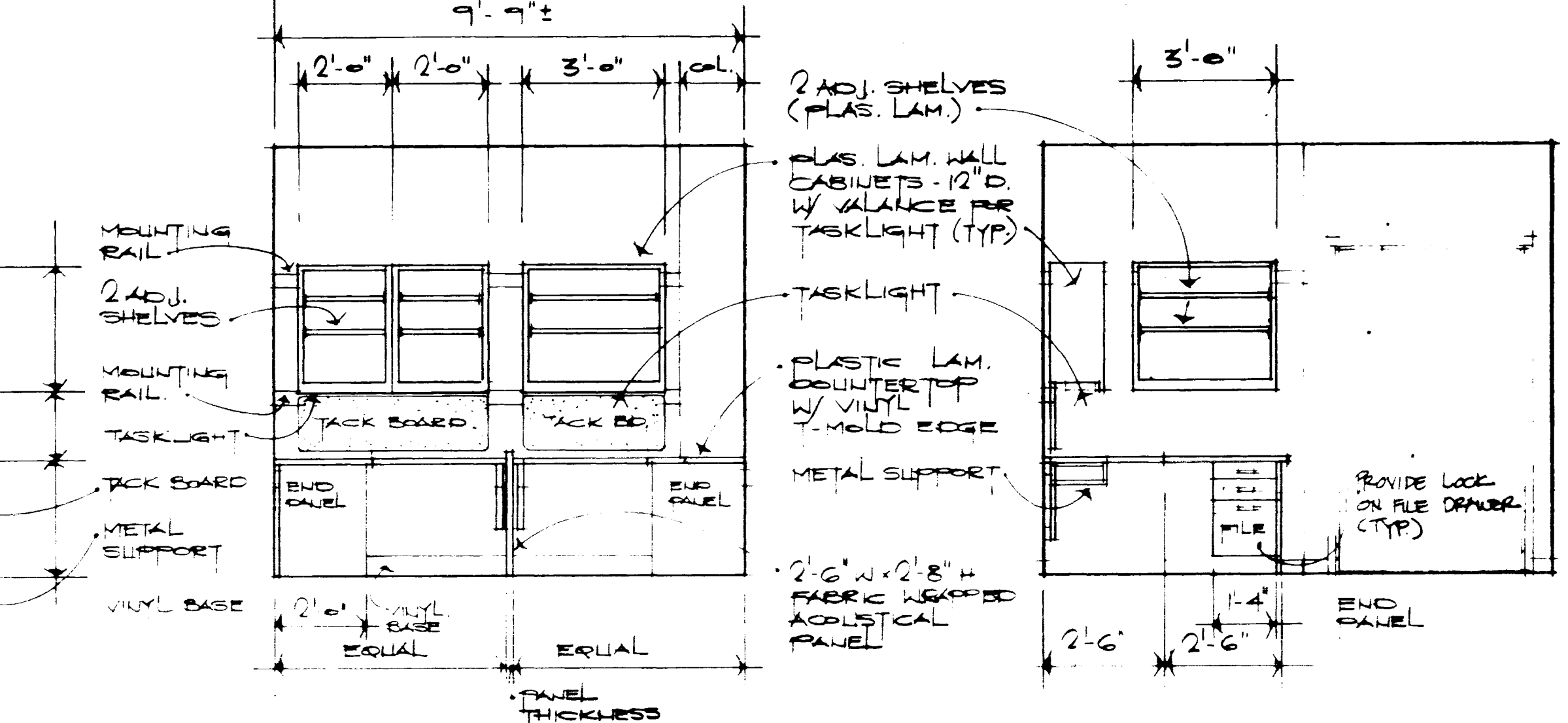
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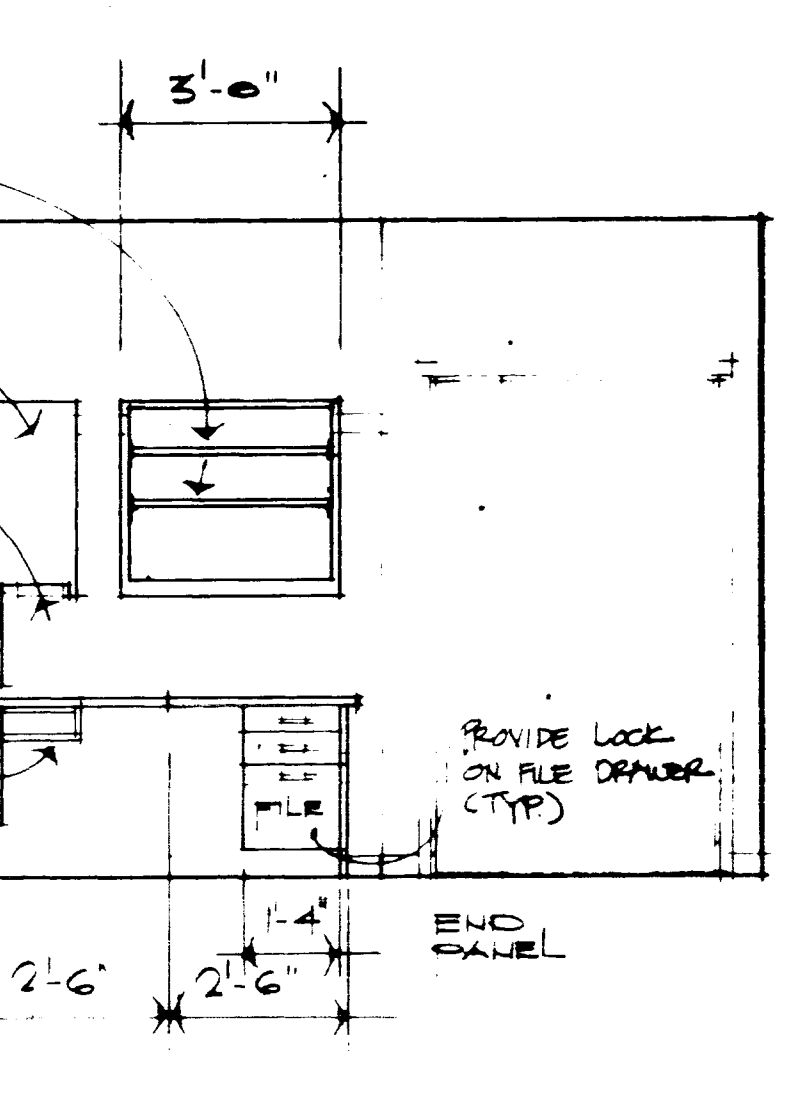
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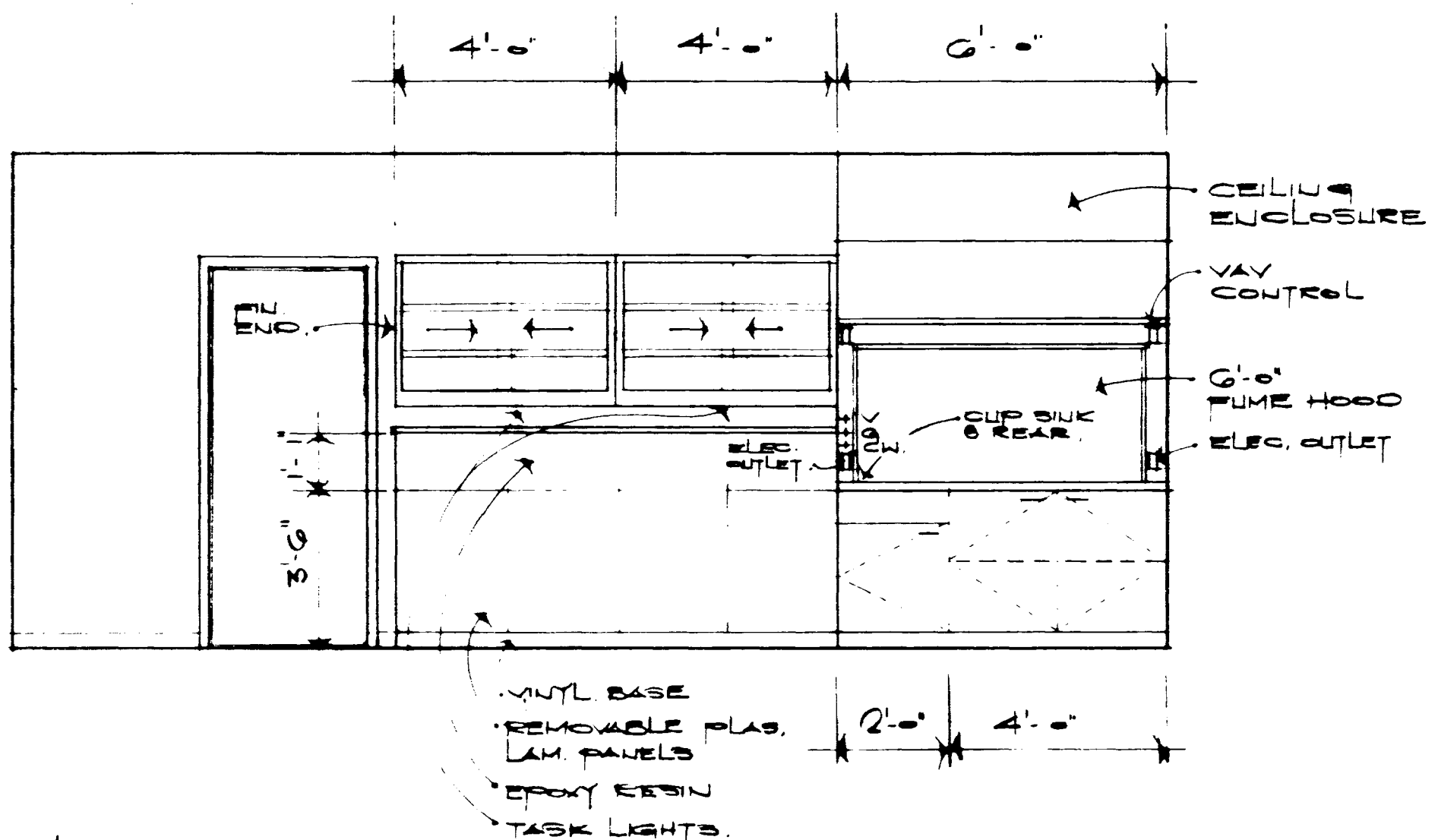
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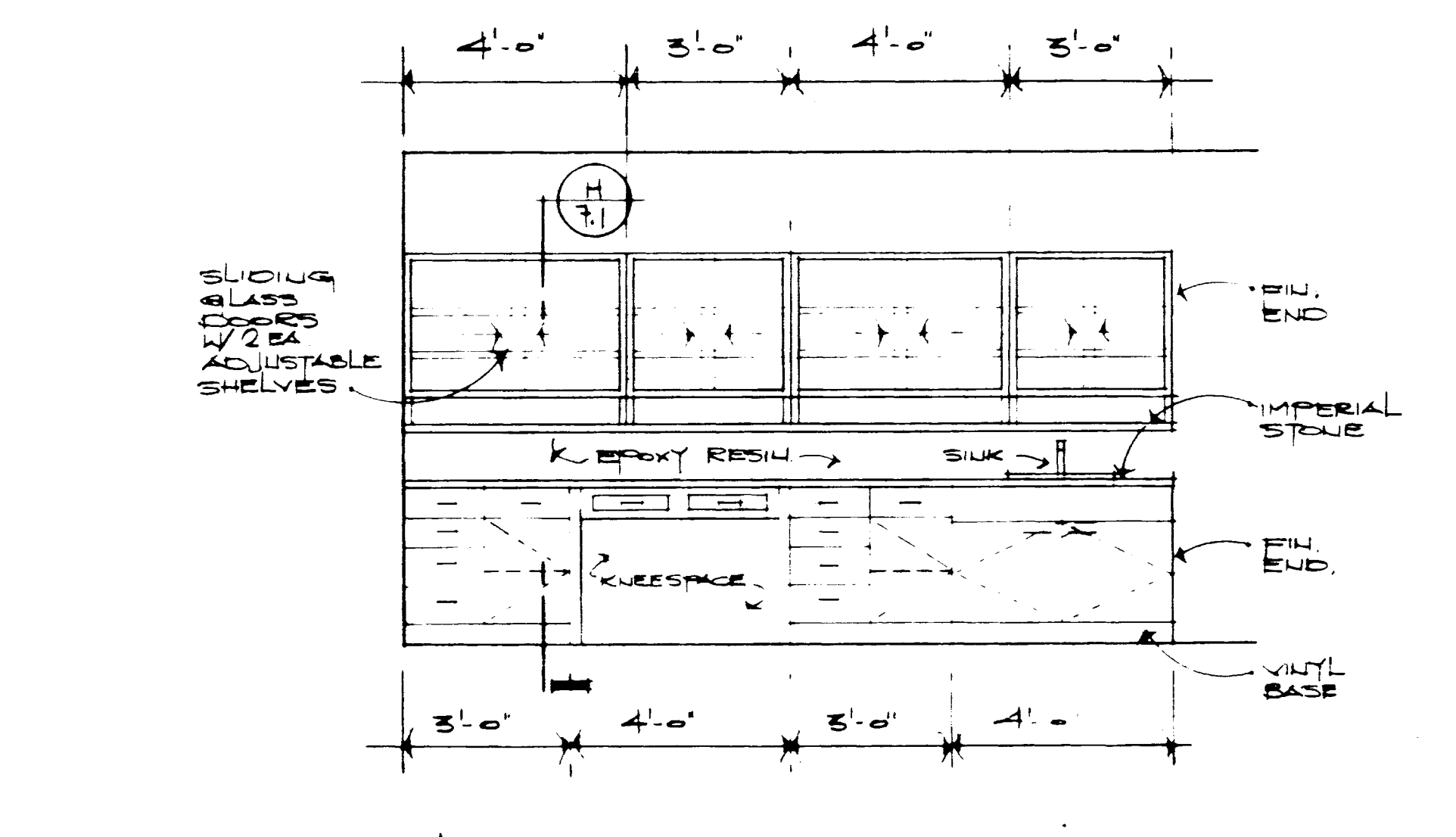
ELEVATION G  
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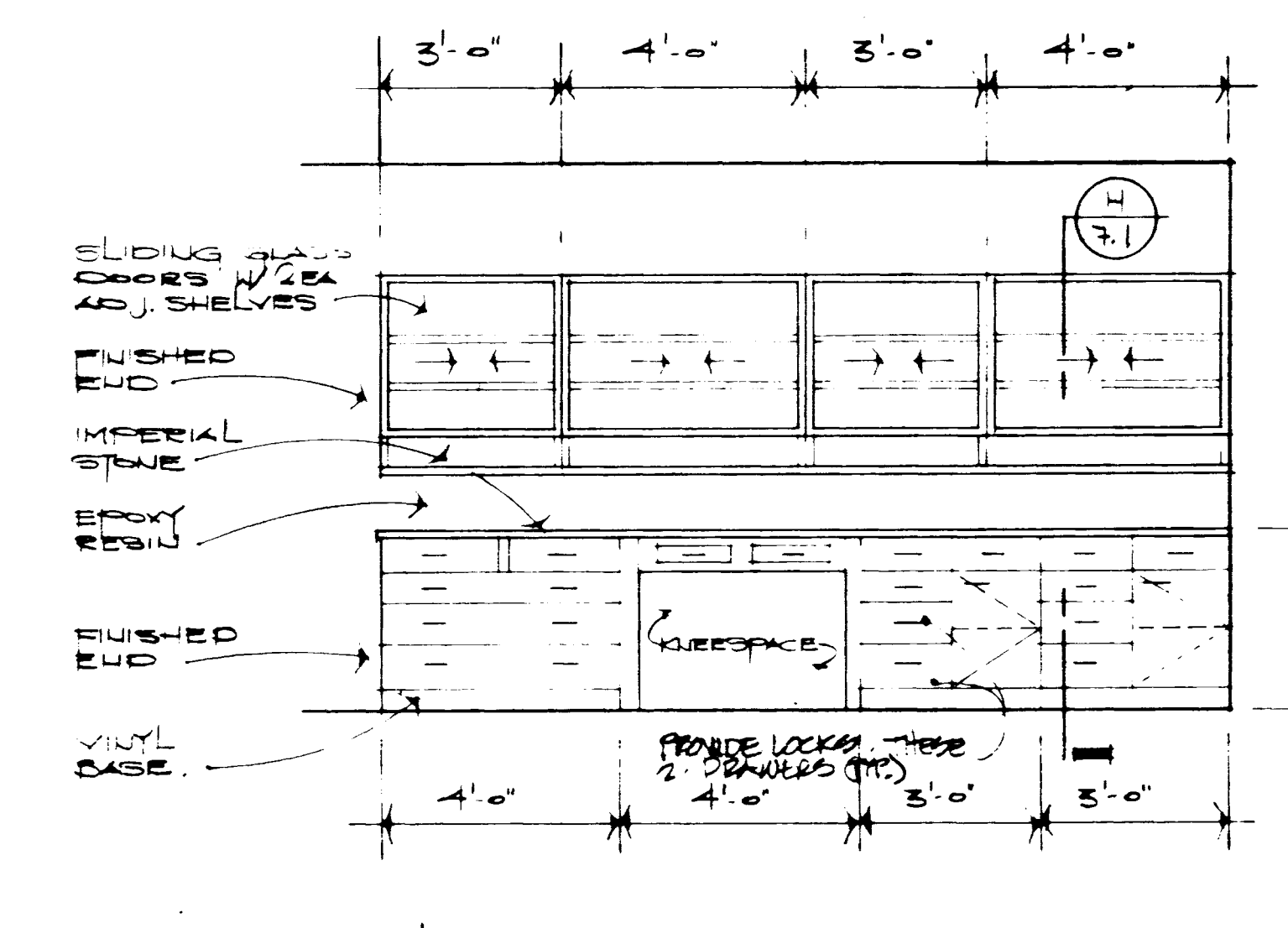
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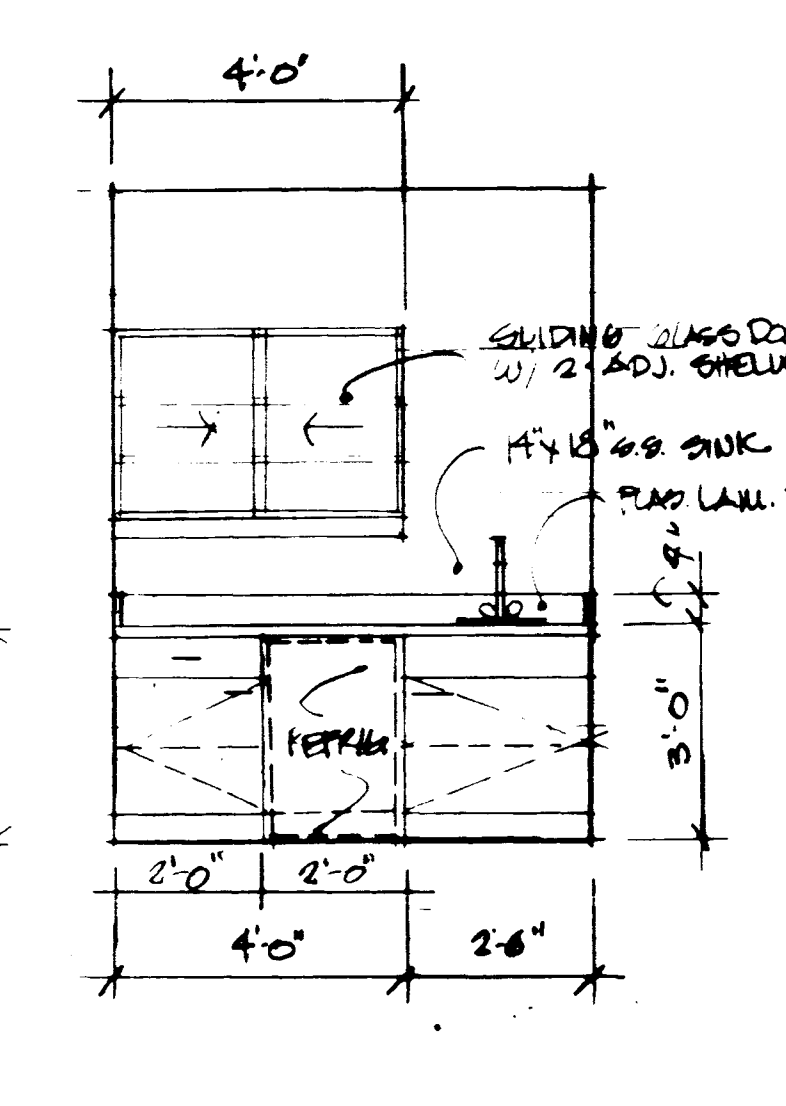
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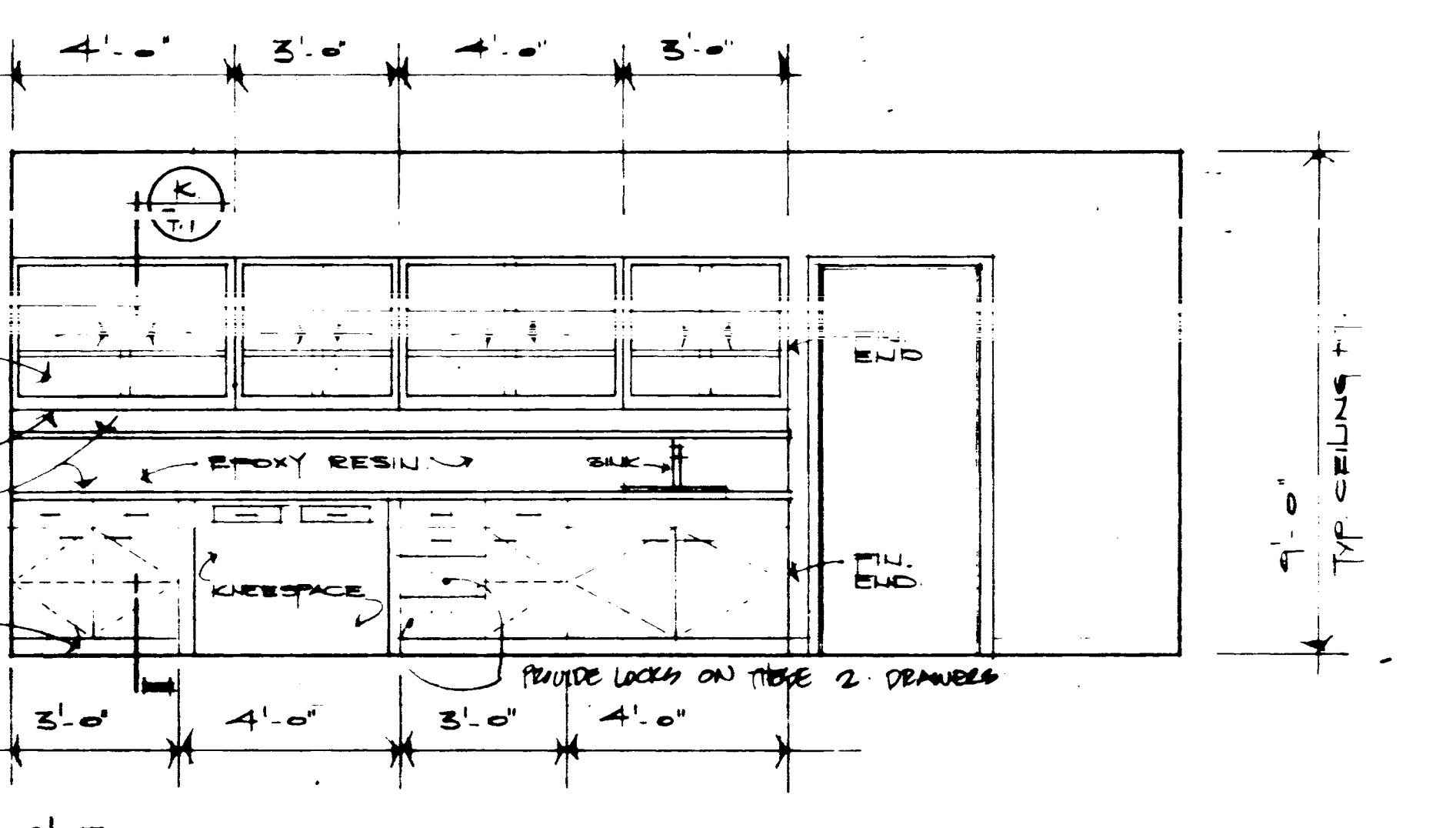
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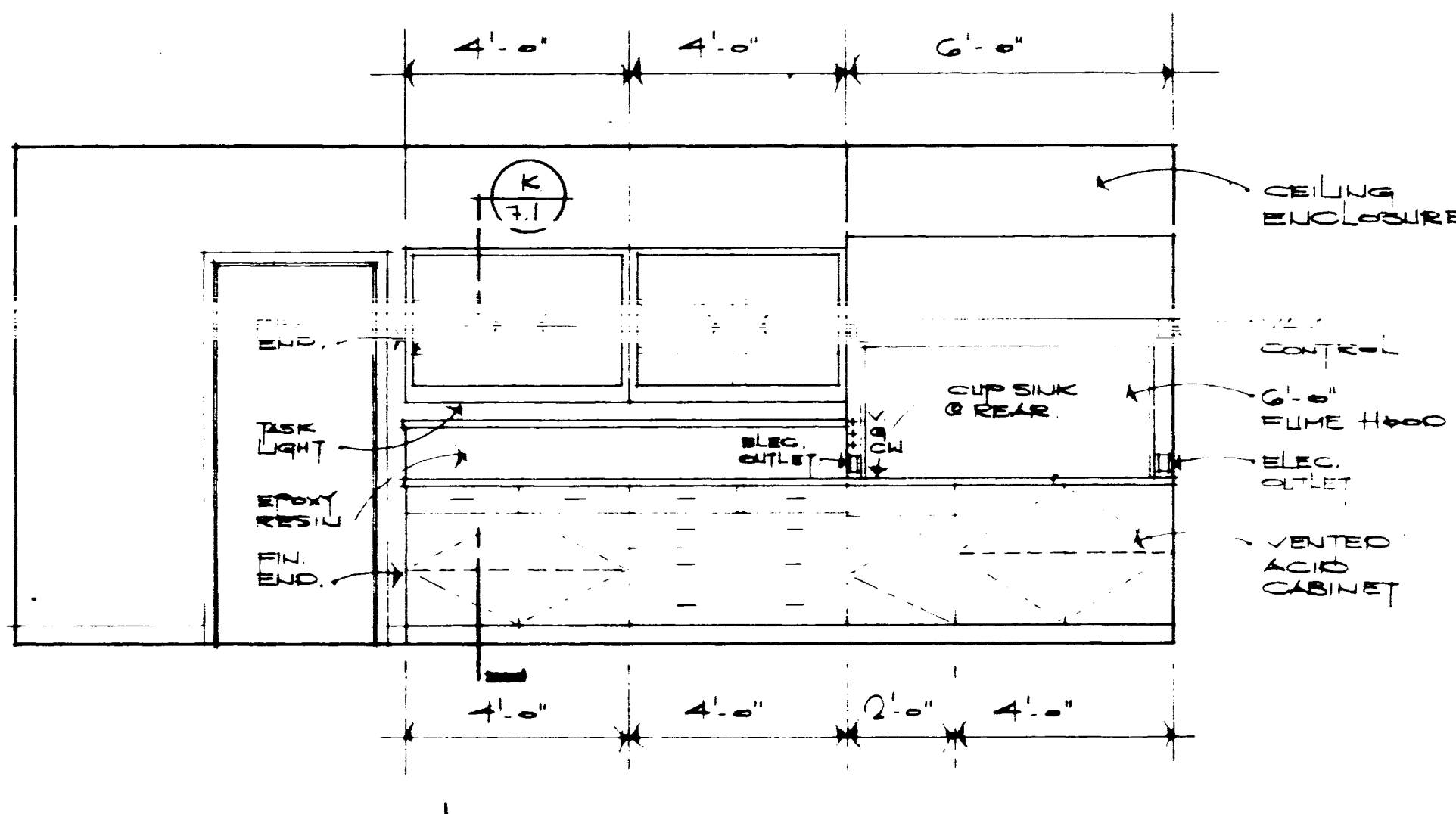
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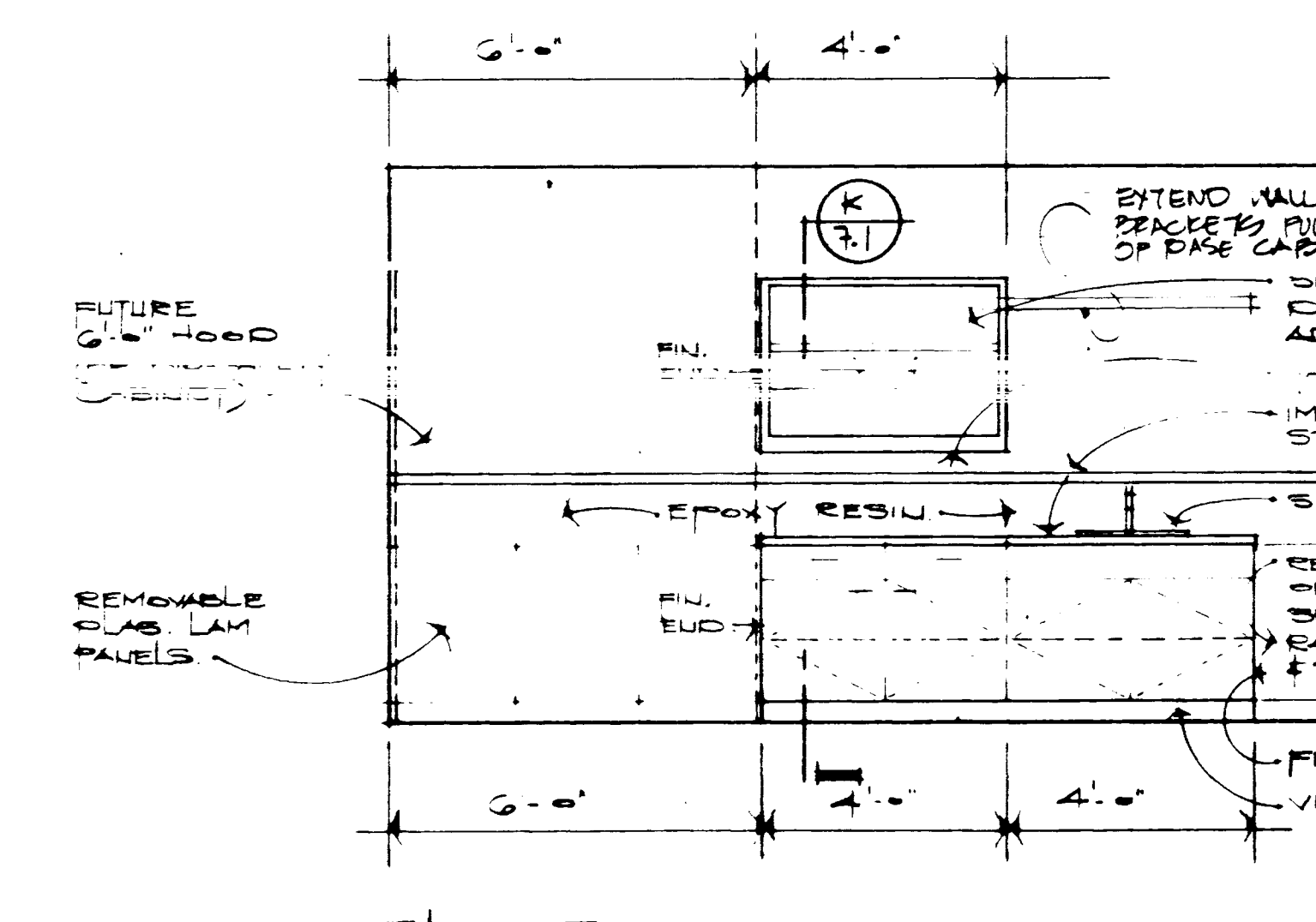
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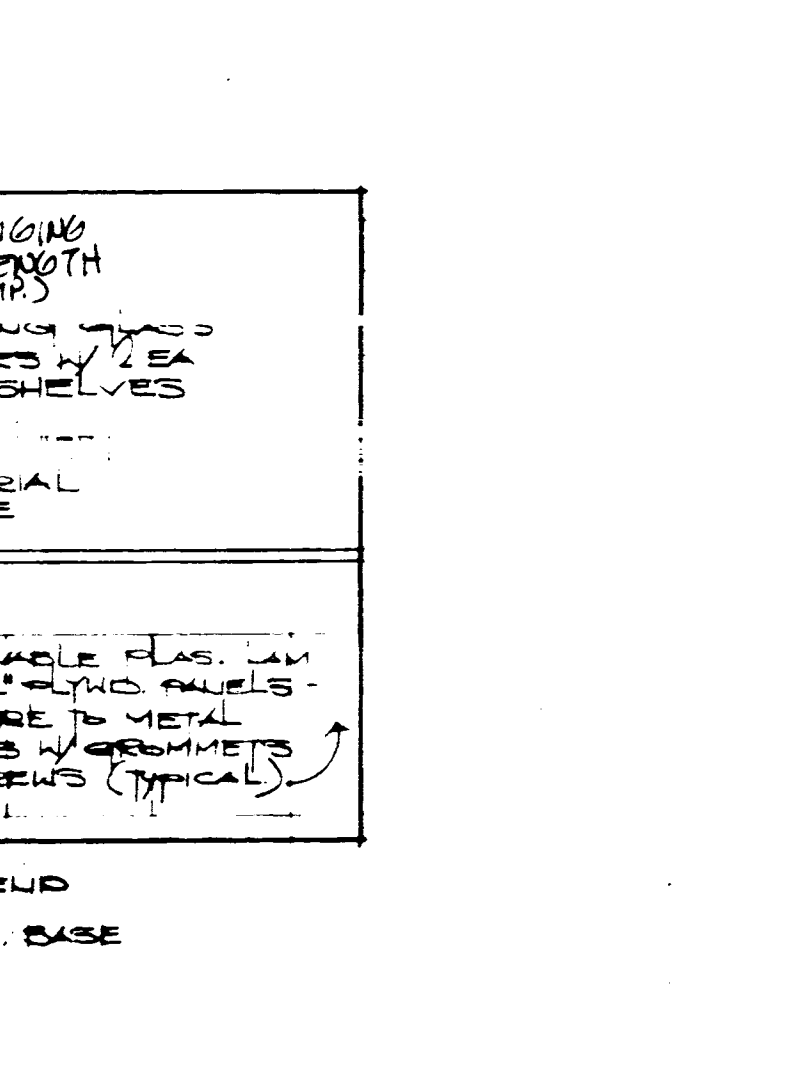
ELEVATION M  
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ELEVATION N  
3/8" = 1'-0" (7.4)



ELEVATION O  
3/8" = 1'-0" (7.4)

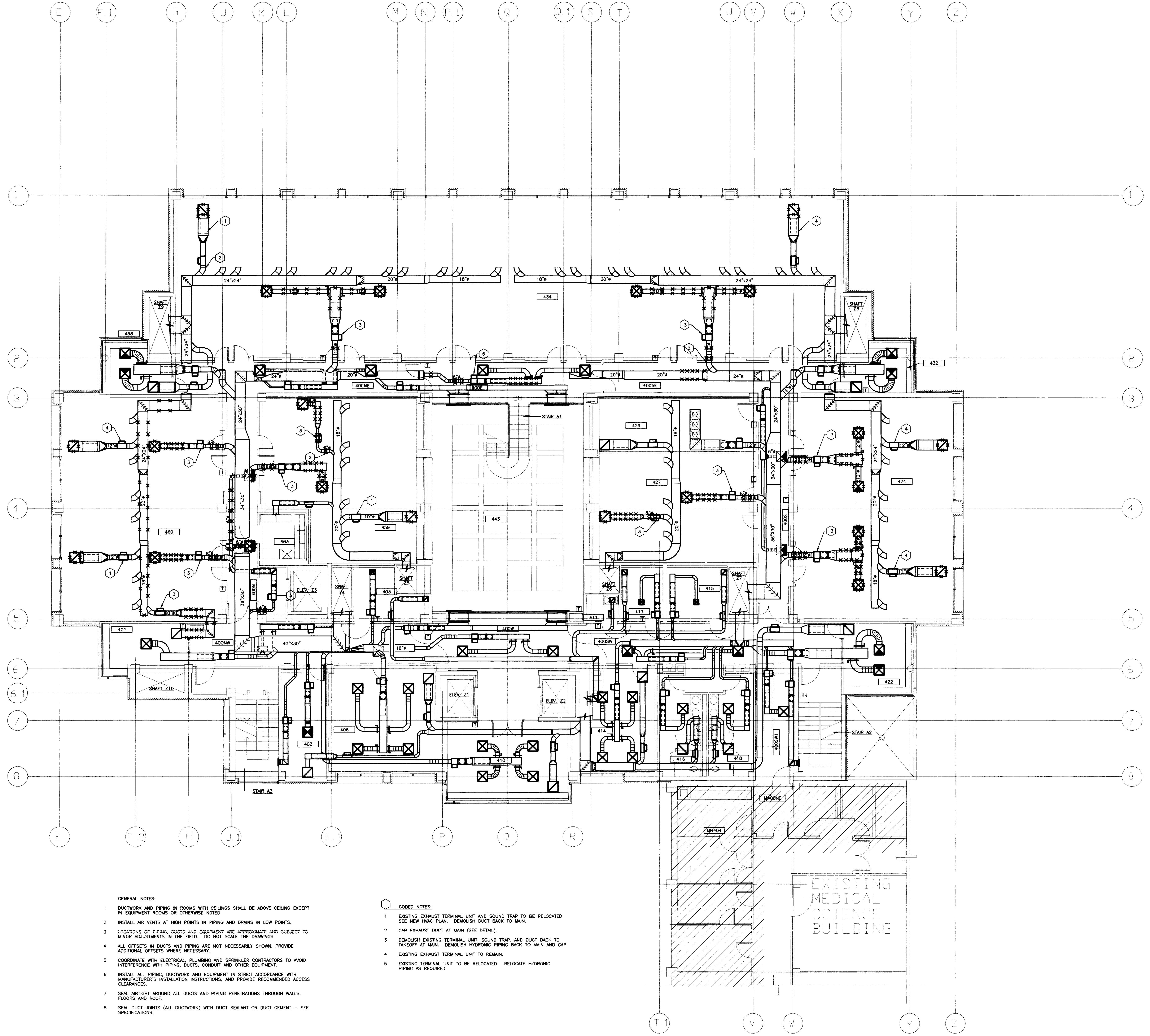


ELEVATION P  
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FINAL DOCUMENTS



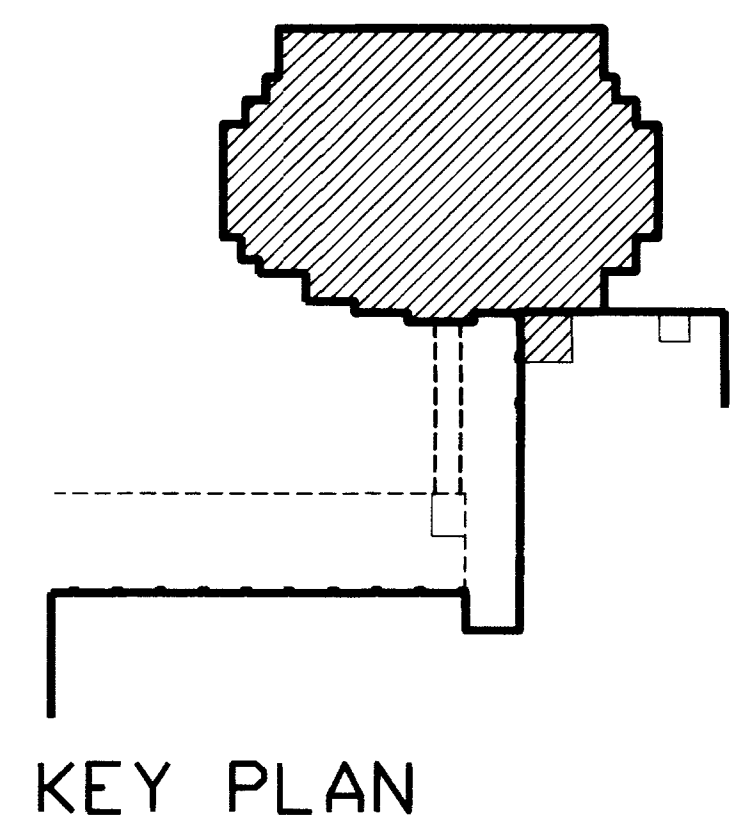
FOURTH FLOOR			
ROOM NO.	ROOM NAME	ROOM NO.	ROOM NAME
400E	CORRIDOR	413	ELECTRIC ROOM
400N	CORRIDOR	414	COFFEE/VENDING
400NE	CORRIDOR	415	COMMUNICATIONS ROOM
400NW	CORRIDOR	416	MENS TOILET
400W	CORRIDOR	418	WOMENS TOILET
400S	CORRIDOR	422	INTERACTION
400SE	CORRIDOR	424	LAB SUITE
400SW1	CORRIDOR	427	LAB SUITE
400W	CORRIDOR	432	INTERACTION
401	INTERACTION	434	LAB SUITE
402	JANITORS EQUIPMENT	443	ATRIUM
403	ELECTRIC ROOM	458	INTERACTION
408	CLERICAL	459	LAB SUITE
410	GENERAL CONFERENCE	460	LAB SUITE
411	JANITORS CLOSET	463	COLD ROOM
		464	CONFERENCE ROOM
		465	
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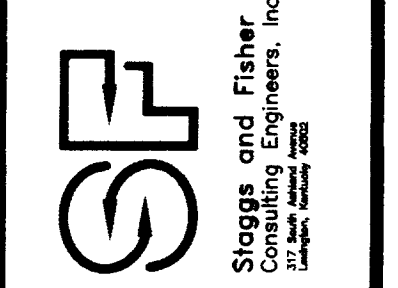
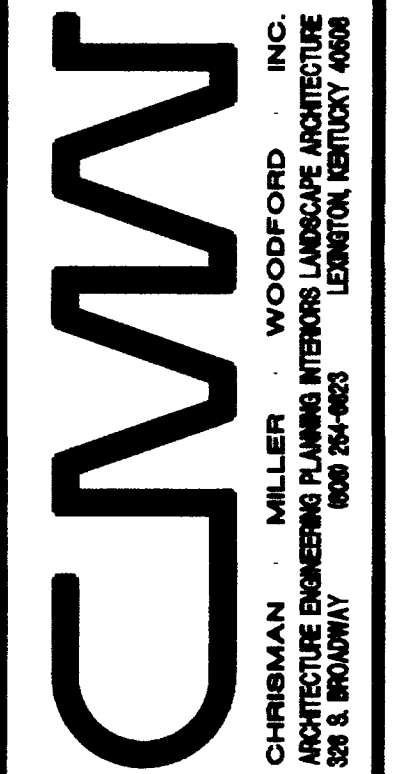
- GENERAL NOTES:
- DUCTWORK AND PIPING IN ROOMS WITH CEILINGS SHALL BE ABOVE CEILING EXCEPT IN EQUIPMENT ROOMS OR OTHERWISE NOTED.
  - INSTALL AIR VENTS AT HIGH POINTS IN PIPING AND DRAINS IN LOW POINTS.
  - LOCATIONS OF PIPING, DUCTS AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.
  - ALL OFFSETS IN DUCTS AND PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.
  - COORDINATE WITH ELECTRICAL, PLUMBING AND SPRINKLER CONTRACTORS TO AVOID INTERFERENCE WITH PIPING, DUCTS, CONDUIT AND OTHER EQUIPMENT.
  - INSTALL ALL PIPING, DUCTWORK AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND PROVIDE RECOMMENDED ACCESS CLEARANCES.
  - SEAL AIRTIGHT AROUND ALL DUCTS AND PIPING PENETRATIONS THROUGH WALLS, FLOORS AND ROOF.
  - SEAL DUCT JOINTS (ALL DUCTWORK) WITH DUCT SEALANT OR DUCT CEMENT - SEE SPECIFICATIONS.

- CODED NOTES:
- EXISTING EXHAUST TERMINAL UNIT AND SOUND TRAP TO BE RELOCATED. SEE NEW HVAC PLAN. DEMOLISH DUCT BACK TO MAIN.
  - CAP EXHAUST DUCT AT MAIN (SEE DETAIL).
  - DEMOLISH EXISTING TERMINAL UNIT, SOUND TRAP, AND DUCT BACK TO TAKEOFF AT MAIN. DEMOLISH HYDRONIC PIPING BACK TO MAIN AND CAP.
  - EXISTING EXHAUST TERMINAL UNIT TO REMAIN.
  - EXISTING TERMINAL UNIT TO BE RELOCATED. RELOCATE HYDRONIC PIPING AS REQUIRED.

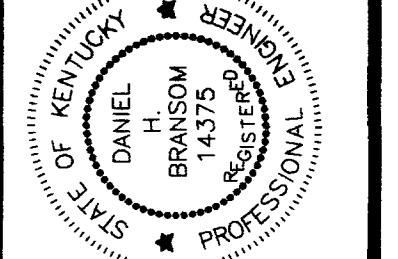
**H.V.A.C. DEMOLITION PLAN - FOURTH FLOOR**  
 SCALE: 1/8" = 1'-0"  
 NOTE: REFER TO ARCHITECTURAL PLANS FOR ALTERNATES.



RECORD DRAWINGS DATE 8-5-96  
 These record drawings have been prepared, in part, on the basis of information compiled and furnished by others. The Engineer will not be responsible for any errors or omissions which have been incorporated into this document as a result.  
 STAGGS & FISHER CONSULTING ENGINEERS, INC.



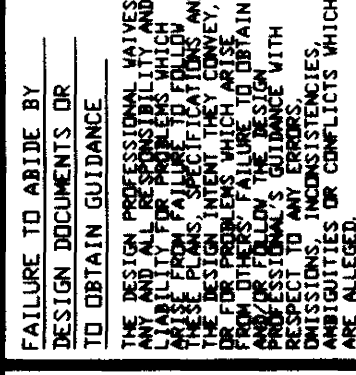
STAGGS & FISHER CONSULTING ENGINEERS, INC.  
 200 S. BROADWAY  
 KENTON, KY 40320  
 606.261.4000



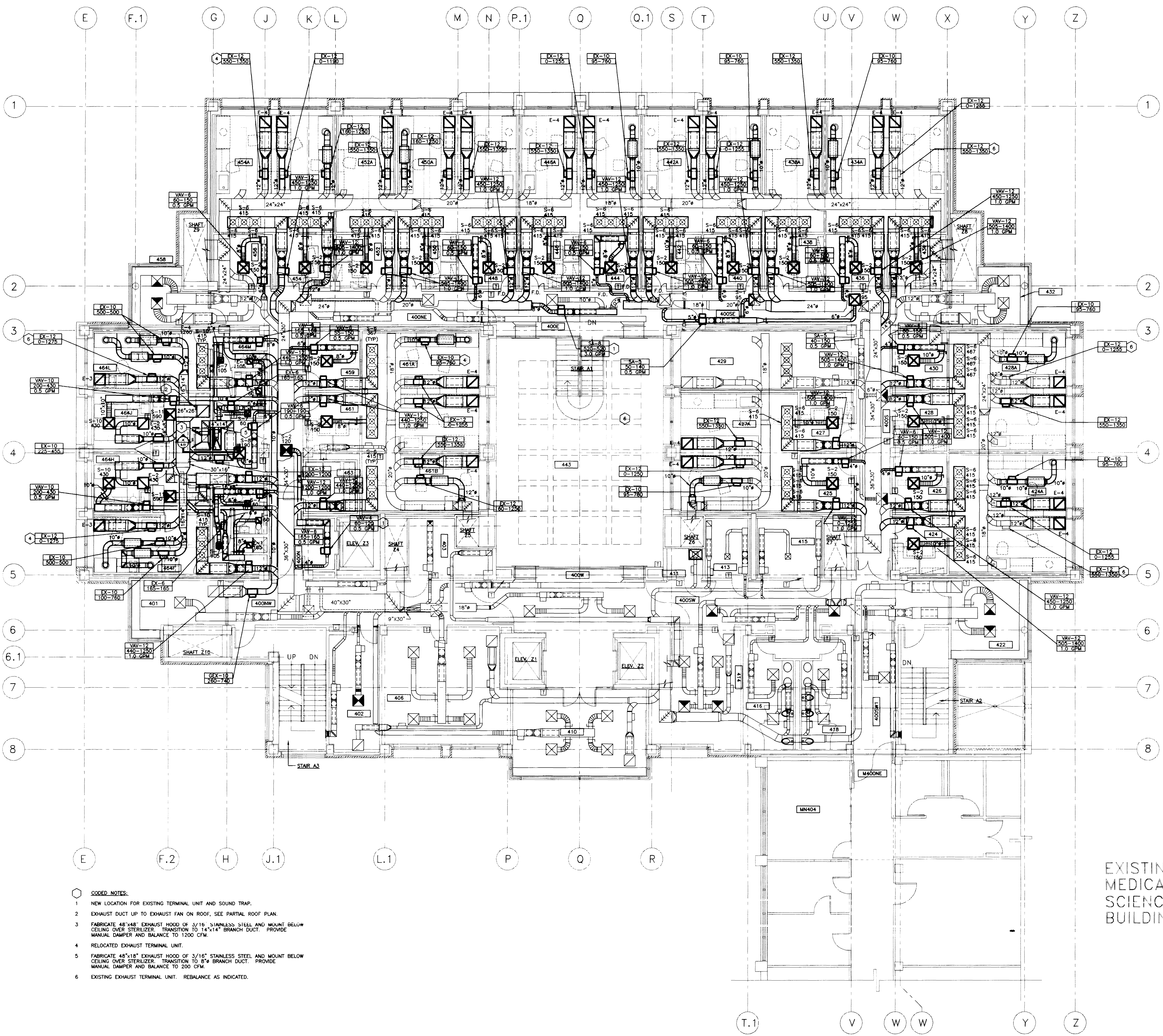
HVAC DEMOLITION PLAN - FOURTH FLOOR  
**Medical Research Fit-up and Security System**  
 University of Kentucky  
 Project No. 747.3

SHT. PROJECT TITLE  
 DATE: MAY 1996  
 DRAWN BY: CCM  
 CHECKED BY: DMF  
 REVISED:  
 DATE:  
 SHEET NUMBER  
**8.10**  
 PROJECT NUMBER





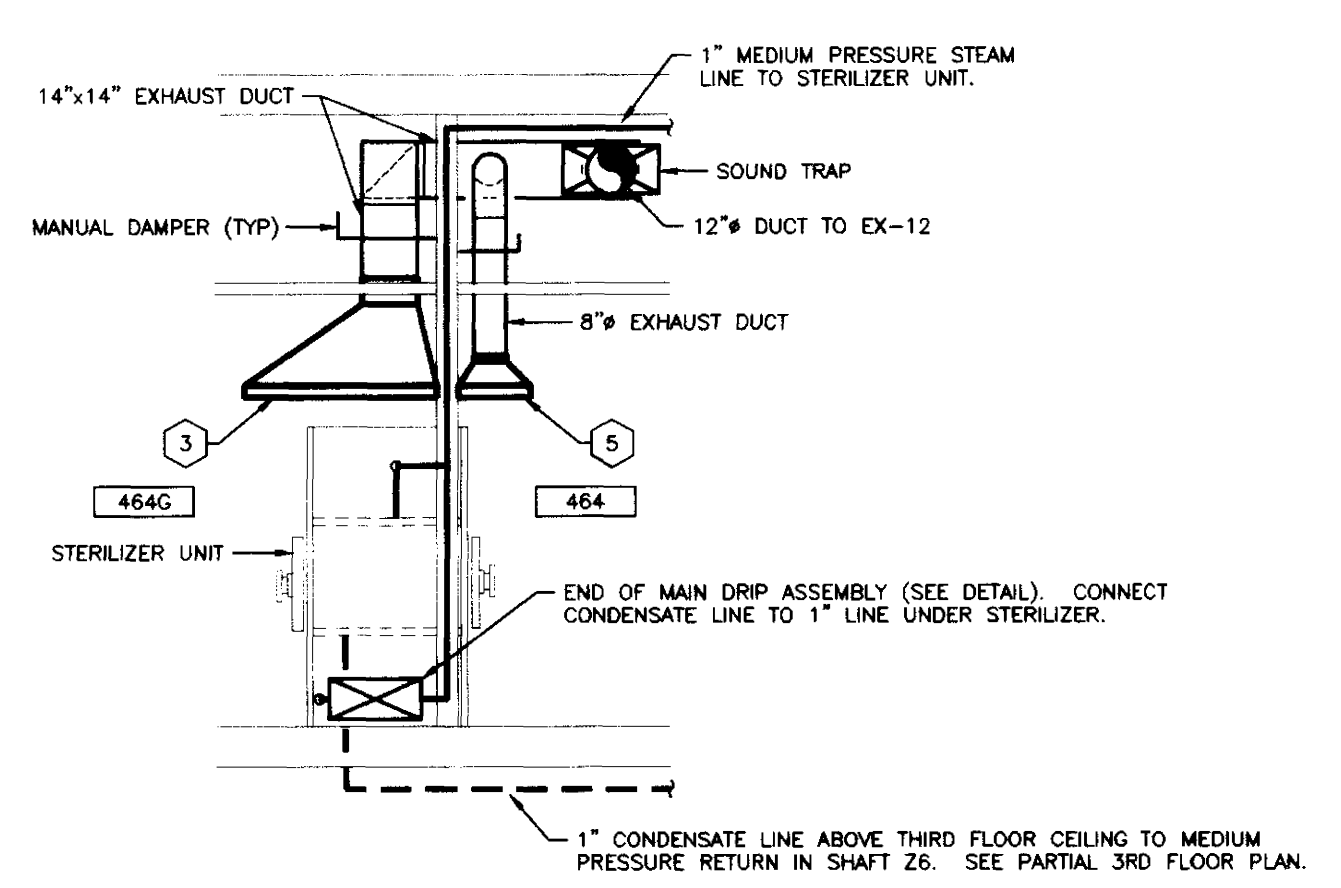
ROOM NO.	ROOM NAME	ROOM NO.	ROOM NAME
400E	CORRIDOR	442	WORK STATION
400SE	CORRIDOR	442A	LAB
400SW	CORRIDOR	443	ATRIUM
400W	CORRIDOR	444	OFFICE
400NW	CORRIDOR	445	WORK STATION
400NE	CORRIDOR	446	LAB
401	CORRIDOR	447	OFFICE
402	INTERACTION	448	WORK STATION
403	JANITORS EQUIPMENT	450	LAB
404	ELECTRIC ROOM	450A	LAB
405	GENERAL CONFERENCE	452	WORK STATION
406	JANITORS CLOSET	454	LAB
410	ELECTRIC ROOM	456	OFFICE
411	COFFEE/VENDING	458	INTERACTION
413	COMMUNICATIONS ROOM	459	WORK STATION
414	WORKING TOILET	461	LAB
415	WORKING TOILET	461A	LAB
416	WORKING TOILET	461B	LAB
422	INTERACTION	463	COLD ROOM
424	WORK STATION	464	ANKLE ROOM
424A	LAB	464A	LOCKER
425	OFFICE	464B	TOILET
426	OFFICE	464C	VESTIBULE
427	WORK STATION	464D	DECONTAMINATION
427A	LAB	464E	SHOWER
428	WORK STATION	464F	LAB
428A	LAB	464G	LAB
429	SHARED EQUIPMENT	464H	LAB
430	OFFICE	464I	ANIMAL ROOM
432	INTERACTION	464J	VESTIBULE
434	WORK STATION	464K	LAB
434A	LAB	464M	DECONTAMINATION
436	OFFICE	464N	SHOWER
438	WORK STATION	464P	VESTIBULE
438A	LAB	464Q	LOCKER
440	OFFICE	464R	TOILET



- CODED NOTES:**
- 1 NEW LOCATION FOR EXISTING TERMINAL UNIT AND SOUND TRAP.
  - 2 EXHAUST DUCT UP TO EXHAUST FAN ON ROOF. SEE PARTIAL ROOF PLAN.
  - 3 FABRICATE 48"x48" EXHAUST HOOD OF 3/16" STAINLESS STEEL AND MOUNT BELOW CEILING OVER STERILIZER. TRANSITION TO 14"x14" BRANCH DUCT. PROVIDE MANUAL DAMPER AND BALANCE TO 1200 CFM.
  - 4 RELOCATED EXHAUST TERMINAL UNIT.
  - 5 FABRICATE 48"x18" EXHAUST HOOD OF 3/16" STAINLESS STEEL AND MOUNT BELOW CEILING OVER STERILIZER. TRANSITION TO 8" BRANCH DUCT. PROVIDE MANUAL DAMPER AND BALANCE TO 200 CFM.
  - 6 EXISTING EXHAUST TERMINAL UNIT. REBALANCE AS INDICATED.

**H.V.A.C. PLAN -- FOURTH FLOOR**  
SCALE: 1/8" = 1'-0"

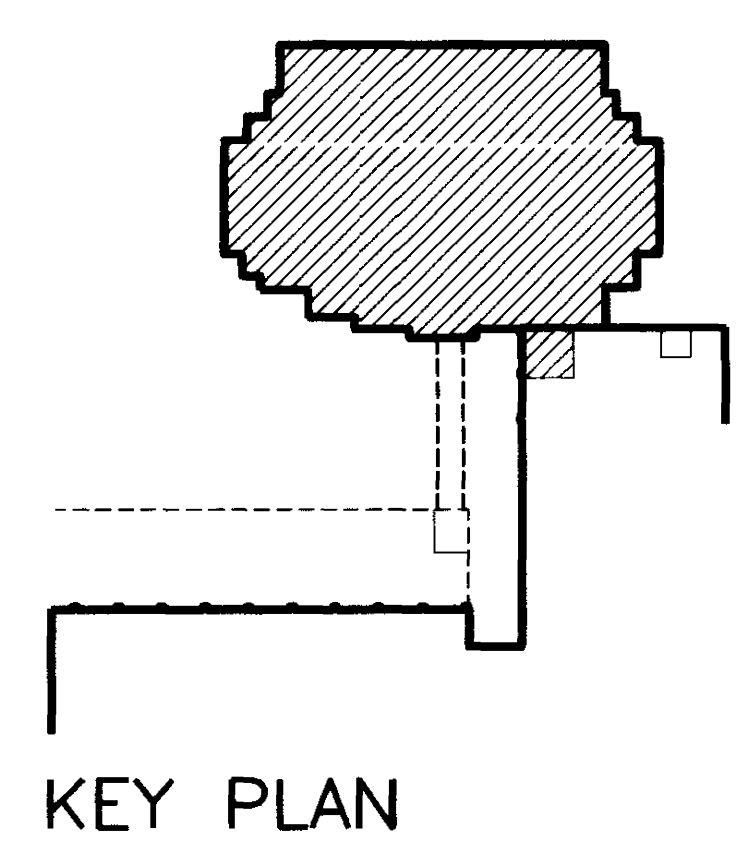
NOTE: REFER TO ARCHITECTURAL PLANS FOR ALTERNATES.



**BUILDING SECTION**  
SCALE: 1/4" = 1'-0"

EXISTING  
MEDICAL  
SCIENCE  
BUILDING

RECORD DRAWINGS DATE 8-5-96  
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STAGGS & FISHER CONSULTING ENGINEERS, INC.

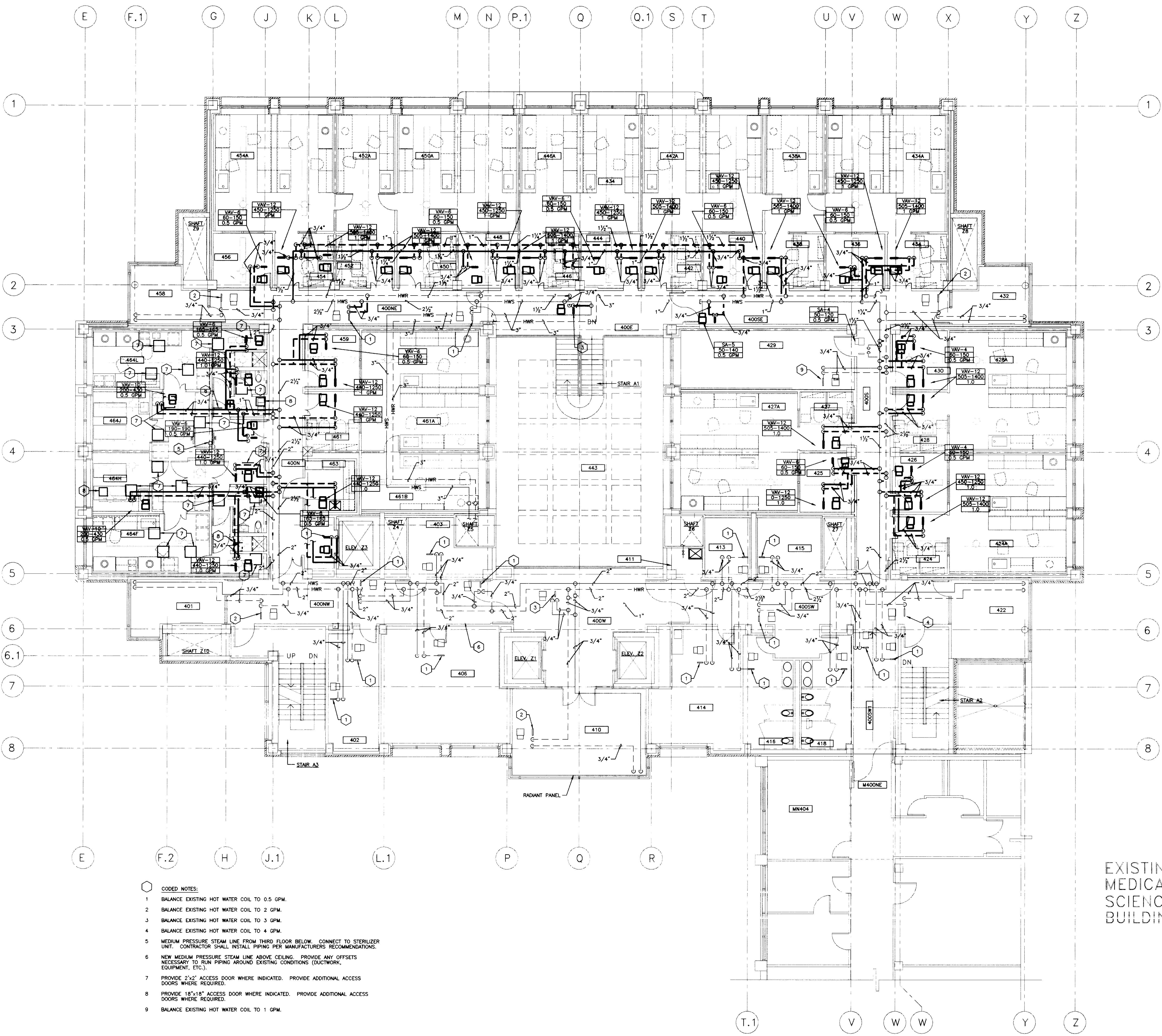


**KEY PLAN**

SHT.	PROJECT TITLE
DATE	MAY 1996
DRAWN BY	AKL, CCK
CHECKED BY	DHB
REVIEWED	
DATE	
<b>SHEET NUMBER</b>	<b>8.11</b>
<b>PROJECT NUMBER</b>	



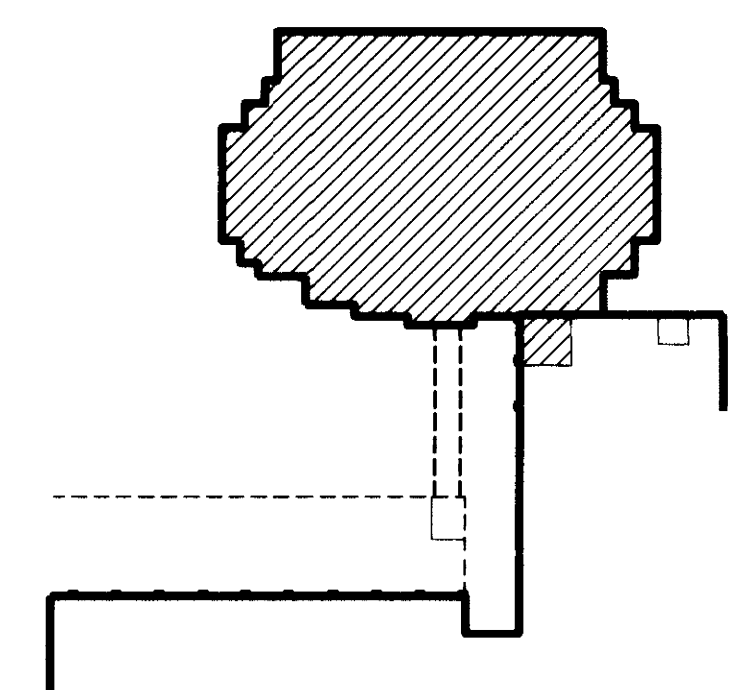
ROOM NO.	ROOM NAME	ROOM NO.	ROOM NAME
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400SE	CORRIDOR	442A	LAB
400SW	CORRIDOR	443	ATRILUM
400W	CORRIDOR	444	OFFICE
400NW	CORRIDOR	446	WORK STATION
400NE	CORRIDOR	446A	LAB
400NE	CORRIDOR	448	OFFICE
400NE	CORRIDOR	450	WORK STATION
401	INTERACTION	450A	LAB
402	JANITORS EQUIPMENT	452	WORK STATION
403	ELECTRIC ROOM	452A	LAB
406	CLECTICAL	454	WORK STATION
410	GENERAL CONFERENCE	454A	LAB
411	JANITORS CLOSET	456	OFFICE
413	ELECTRIC ROOM	458	INTERACTION
414	OFFICE/RENOVATION	459	OFFICE
415	COMMUNICATIONS ROOM	461	WORK STATION
416	MENS TOILET	461A	LAB
418	WOMENS TOILET	461B	LAB
420	INTERACTION	463	COLD ROOM
424	WORK STATION	464	ANTE ROOM
424A	LAB	464A	LOCKER
425	OFFICE	464B	TOILET
426	OFFICE	464C	VESTIBULE
427	WORK STATION	464D	DECONTAMINATION
427A	LAB	464E	SHOWER
428	LAB	464F	LAB
428A	LAB	464G	LAB
429	SHARED EQUIPMENT	464H	ANIMAL ROOM
430	OFFICE	464J	VESTIBULE
432	INTERACTION	464K	VESTIBULE
434	WORK STATION	464L	LAB
434A	LAB	464M	DECONTAMINATION
436	OFFICE	464N	SHOWER
438	WORK STATION	464P	VESTIBULE
438A	LAB	464Q	LOCKER
440	OFFICE	464R	TOILET



- CODED NOTES:**
- BALANCE EXISTING HOT WATER COIL TO 0.5 GPM.
  - BALANCE EXISTING HOT WATER COIL TO 2 GPM.
  - BALANCE EXISTING HOT WATER COIL TO 3 GPM.
  - BALANCE EXISTING HOT WATER COIL TO 4 GPM.
  - MEDIUM PRESSURE STEAM LINE FROM THIRD FLOOR BELOW. CONNECT TO STERILIZER UNIT. CONTRACTOR SHALL INSTALL PIPING PER MANUFACTURERS RECOMMENDATIONS.
  - NEW MEDIUM PRESSURE STEAM LINE ABOVE CEILING. PROVIDE ANY OFFSETS NECESSARY TO RUN PIPING AROUND EXISTING CONDITIONS (DUCTWORK, EQUIPMENT, ETC.).
  - PROVIDE 2'-6" ACCESS DOOR WHERE INDICATED. PROVIDE ADDITIONAL ACCESS DOORS WHERE REQUIRED.
  - PROVIDE 18"x18" ACCESS DOOR WHERE INDICATED. PROVIDE ADDITIONAL ACCESS DOORS WHERE REQUIRED.
  - BALANCE EXISTING HOT WATER COIL TO 1 GPM.

**HYDRONIC PIPING PLAN - FOURTH FLOOR**  
 SCALE: 1/8" = 1'-0"  
 NOTE: REFER TO ARCHITECTURAL PLANS FOR ALTERNATES.

EXISTING  
 MEDICAL  
 SCIENCE  
 BUILDING



KEY PLAN

RECORD DRAWINGS DATE 8-5-96  
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 STAGGS & FISHER CONSULTING ENGINEERS, INC.

HYDRONIC PIPING PLAN - FOURTH FLOOR  
**Medical Research Fit-up and Security System**  
 University of Kentucky  
 Project No. 747.3

SHT. PROJECT TITLE  
 DATE: MAY 1996  
 DRAWN BY: AKL, GSK  
 CHECKED BY: DM  
 REVISED:  
 DATE:  
 SHEET NUMBER  
**8.12**  
 PROJECT NUMBER

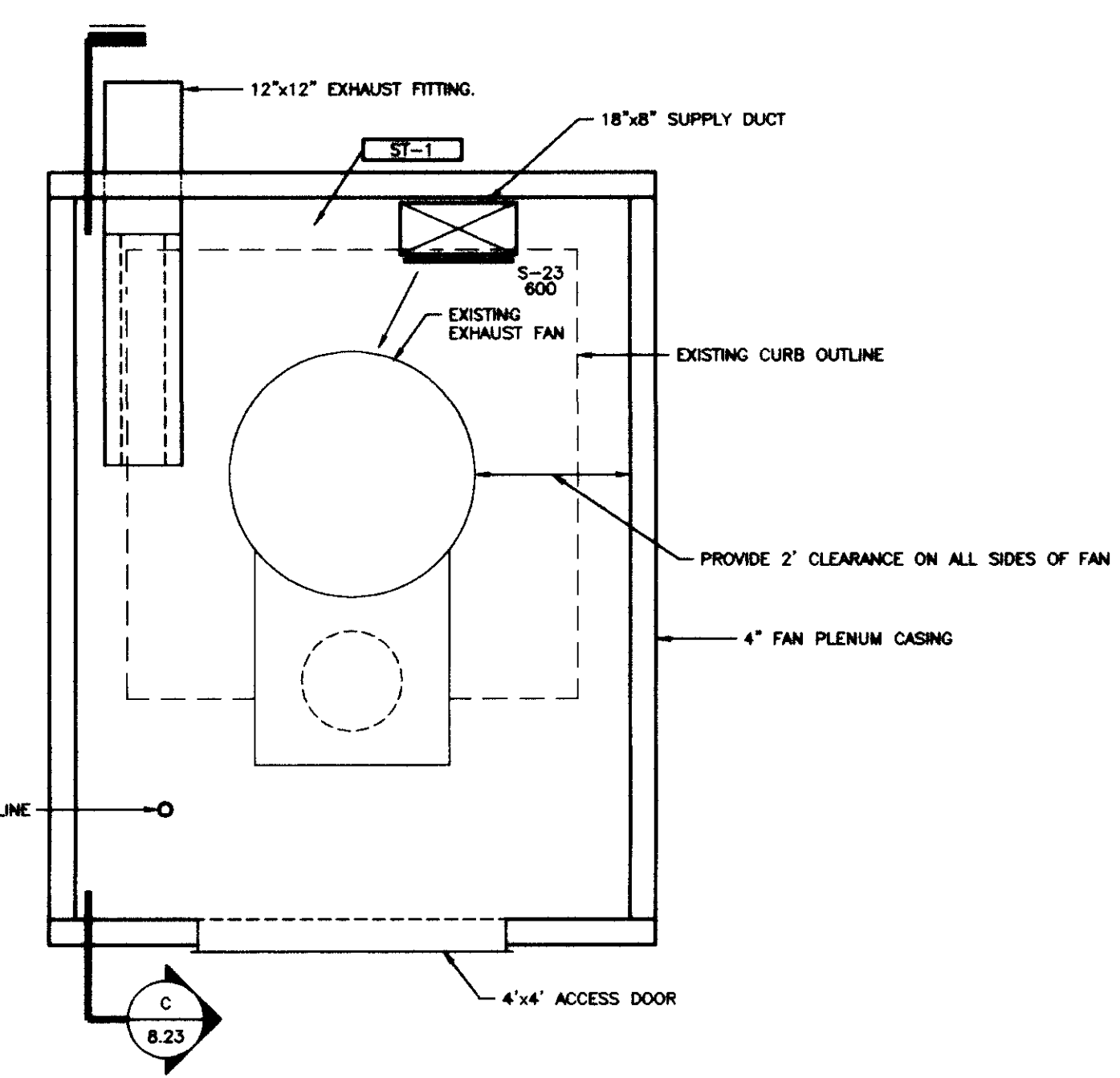




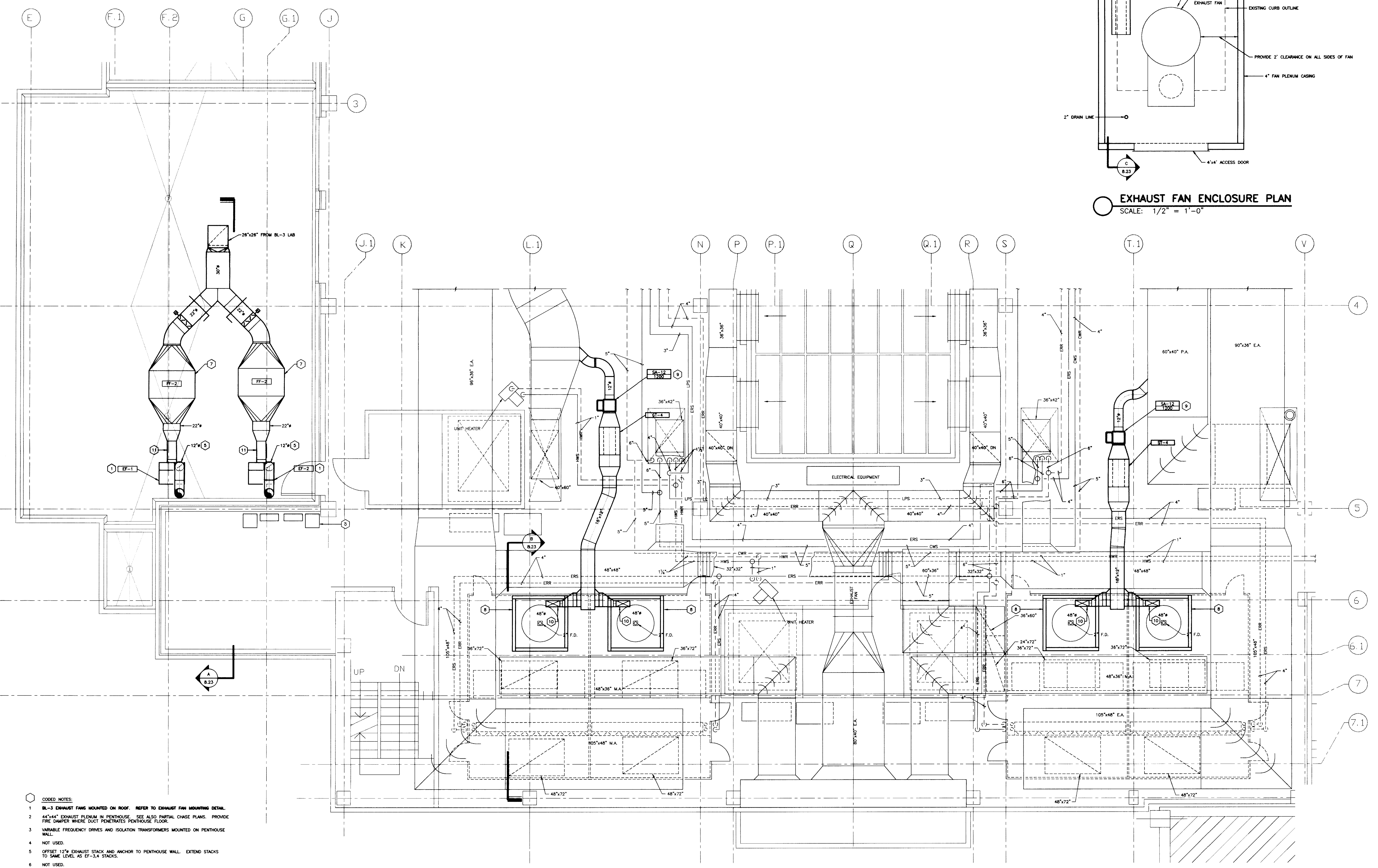








**EXHAUST FAN ENCLOSURE PLAN**  
 SCALE: 1/2" = 1'-0"



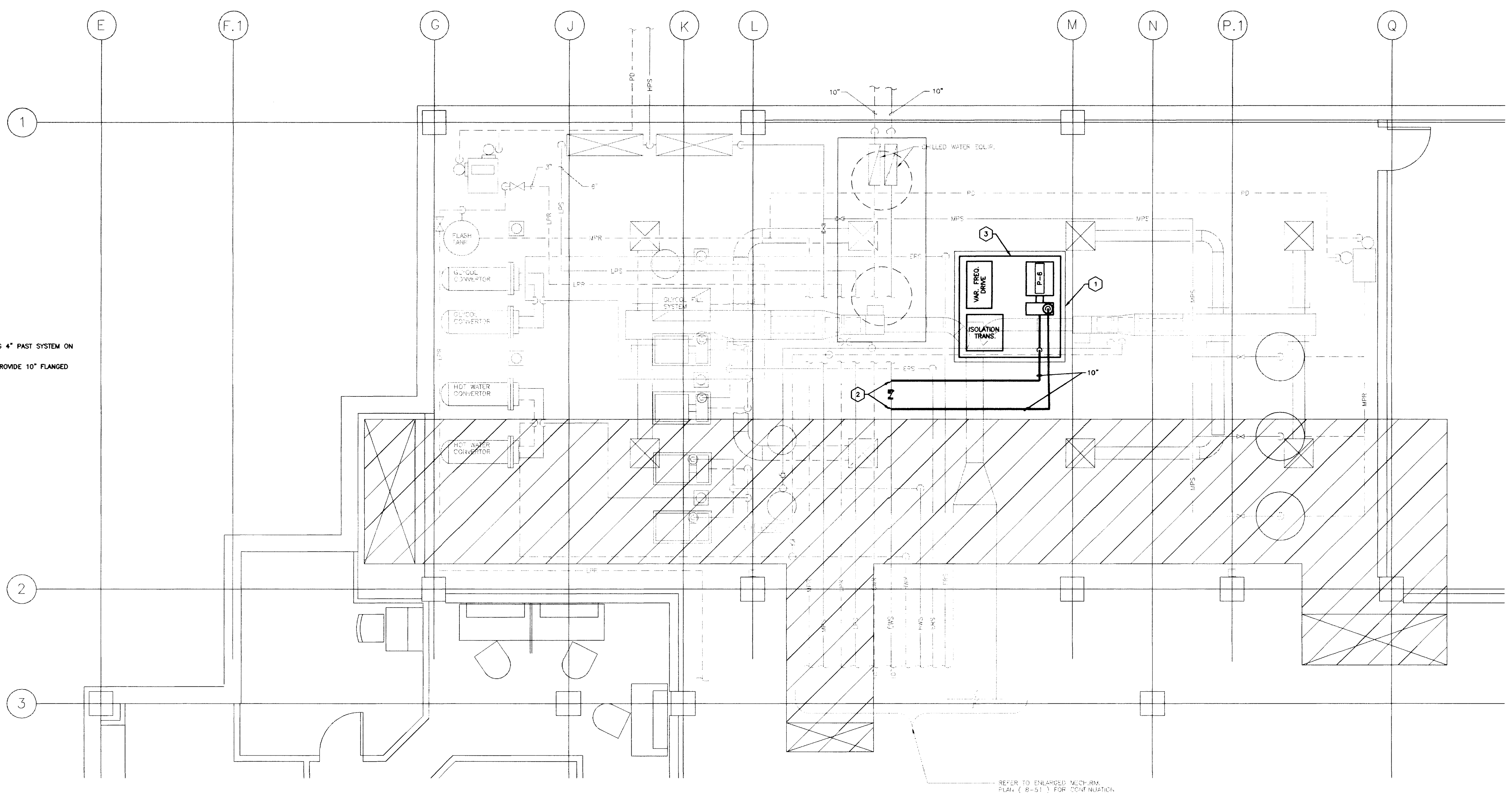
**H.V.A.C. PLAN - PENTHOUSE/ROOF**  
 SCALE: 1/4" = 1'-0"

- CODED NOTES:**
- BL-3 EXHAUST FANS MOUNTED ON ROOF. REFER TO EXHAUST FAN MOUNTING DETAIL.
  - 44"x44" EXHAUST PLENUM IN PENTHOUSE. SEE ALSO PARTIAL CHASE PLANS. PROVIDE FIRE DAMPER WHERE DUCT PENETRATES PENTHOUSE FLOOR.
  - VARIABLE FREQUENCY DRIVES AND ISOLATION TRANSFORMERS MOUNTED ON PENTHOUSE WALL.
  - NOT USED.
  - OFFSET 12" EXHAUST STACK AND ANCHOR TO PENTHOUSE WALL. EXTEND STACKS TO SAME LEVEL AS EF-3,4 STACKS.
  - NOT USED.
  - BAG IN/BAG OUT TYPE FILTER SECTION. CONTRACTOR SHALL INSTALL FILTER PER MANUFACTURERS RECOMMENDATIONS.
  - ENCLOSE 48" EXHAUST DUCT FROM TOP OF EXHAUST UNIT TO ROOF DECK WITH 4" FAN PLENUM CASING ON ALL 4 SIDES. CUT AROUND STRUCTURE AND SEAL AS REQUIRED. SEE EXHAUST FAN ENCLOSURE PLAN (THIS SHEET) FOR WORK ON ROOF.
  - NO HEATING COIL. THIS UNIT IS COOLING ONLY.
  - 18" x 36" SUPPLY DUCT TO NEW EXHAUST FAN ENCLOSURE. SEE EXHAUST FAN ENCLOSURE AND SECTIONS.
  - TRANSITION FROM FULL DUCT SIZE TO FAN INLET SIZE. PROVIDE A MINIMUM DISTANCE OF 2 TIMES THE FAN INLET SIZE BETWEEN THE FAN INLET AND THE FIRST FITTING.

RECORD DRAWINGS DATE 8-5-96

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STAGGS & FISHER CONSULTING ENGINEERS, INC.



- CODED NOTES:**
- 1 PROVIDE 4" HIGH BASE FOR NEW PUMPING SYSTEM EXTENDING 4" PAST SYSTEM ON ALL SIDES.
  - 2 THE NEW 10" LINE INTO EXISTING 10" LINE AT THIS POINT. PROVIDE 10" FLANGED CHECK VALVE BETWEEN PUMP SUPPLY AND RETURN LINES.
  - 3 VARIABLE VOLUME PUMPING SYSTEM. SEE SPECS.

**H.V.A.C. PLAN - EXISTING MRES MECHANICAL ROOM**  
SCALE : 1/4" = 1'-0"

**H.V.A.C. PLAN-EXISTING MRES MECHANICAL ROOM**  
**Medical Research Fit-up and Security System**  
**University of Kentucky**  
**Project No. 747.3**

SHT.	PROJECT TITLE
DATE :	MAY 1996
DRAWN BY :	COX
CHECKED BY :	DWB
REVIEWED :	
DATE :	
<b>SHEET NUMBER</b>	
<b>8.16</b>	
<b>PROJECT NUMBER</b>	

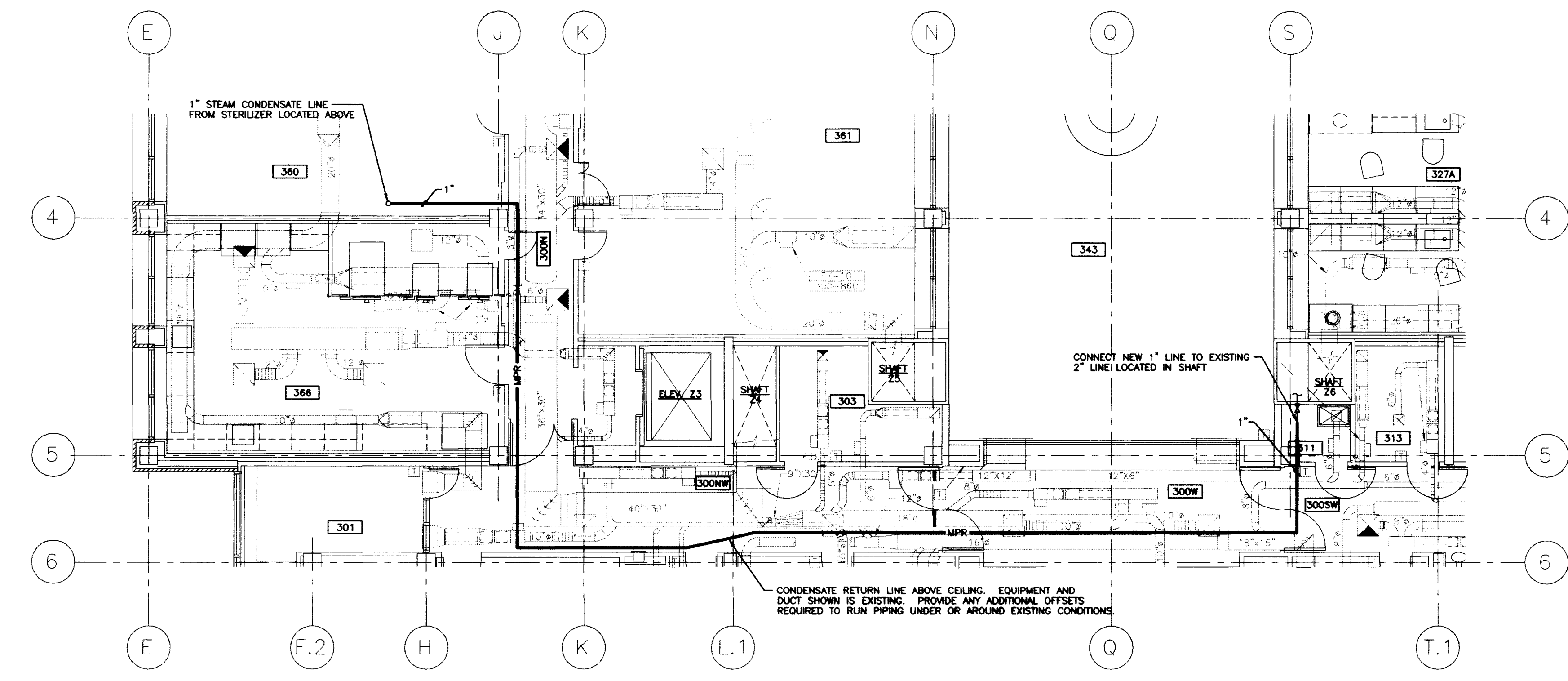
RECORD DRAWINGS DATE 8-5-96  
These record drawings have been prepared, in part, on the basis of information compiled and furnished by others. The Engineer will not be responsible for any errors or omissions which have been incorporated into this document as a result.  
STAGGS & FISHER CONSULTING ENGINEERS, INC.

DRAWING: 03, DWG, URS, MECH, 8-16, DIMSCALE= 24, UTSSCALE= 15, DIMSCALE= 48, 08/05/96 AT 13:43

Sheet 8.16 of 42



**H.V.A.C. PARTIAL PLANS**  
**Medical Research Fit-up and Security System**  
**University of Kentucky**  
**Project No. 747.3**



PARTIAL THIRD FLOOR

ROOM NO.	ROOM NAME
300N	CORRIDOR
300NW	CORRIDOR
300SW	CORRIDOR
300W	CORRIDOR
301	INTERACTION
303	ELECTRIC ROOM
311	JANITOR'S CLOSET
315	ELECTRIC ROOM
327A	ELECTRIC ROOM
343	LAB
345	ATRIUM
360	LAB SUITE
361	LAB SUITE
366	GLASSWASH/AUTOClave

**PARTIAL THIRD FLOOR - PIPING PLAN**  
SCALE: 1/8" = 1'-0"

SHT.	PROJECT TITLE
DATE	MAY 1996
DRAWN BY	AHL, GCK
CHECKED BY	DWB
REVIEWED	
DATE	

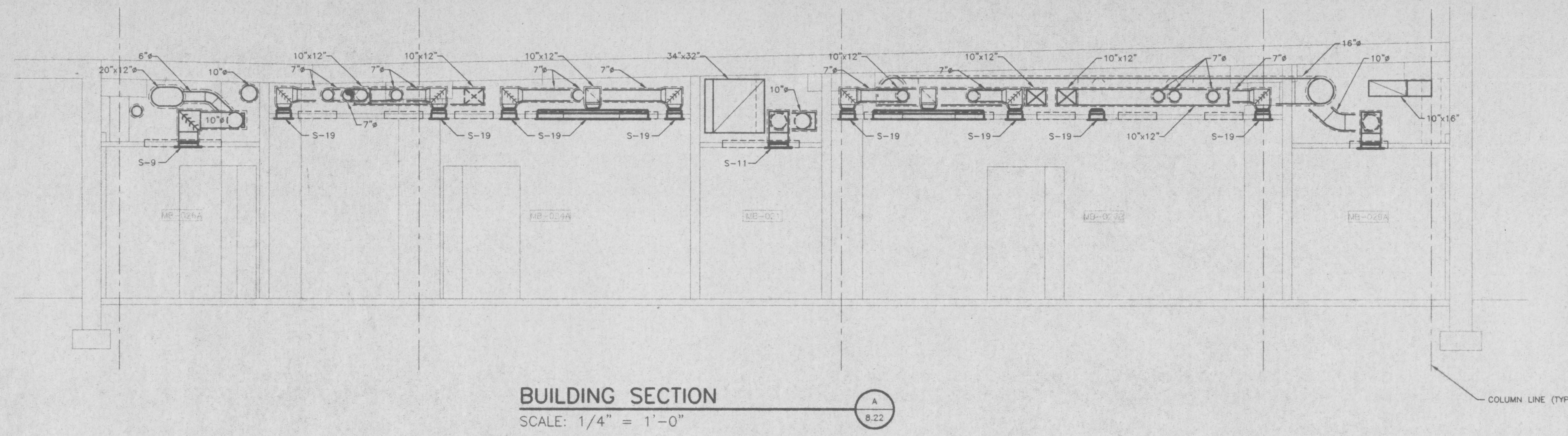
RECORD DRAWINGS DATE 8-5-96

These record drawings have been prepared, in part, on the basis of information compiled and furnished by others. The Engineer will not be responsible for any errors or omissions which have been incorporated into this document as a result.

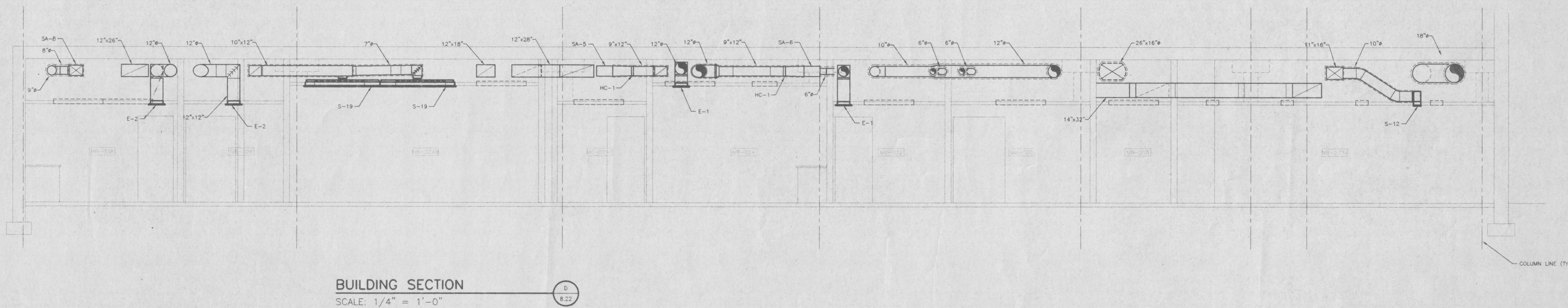
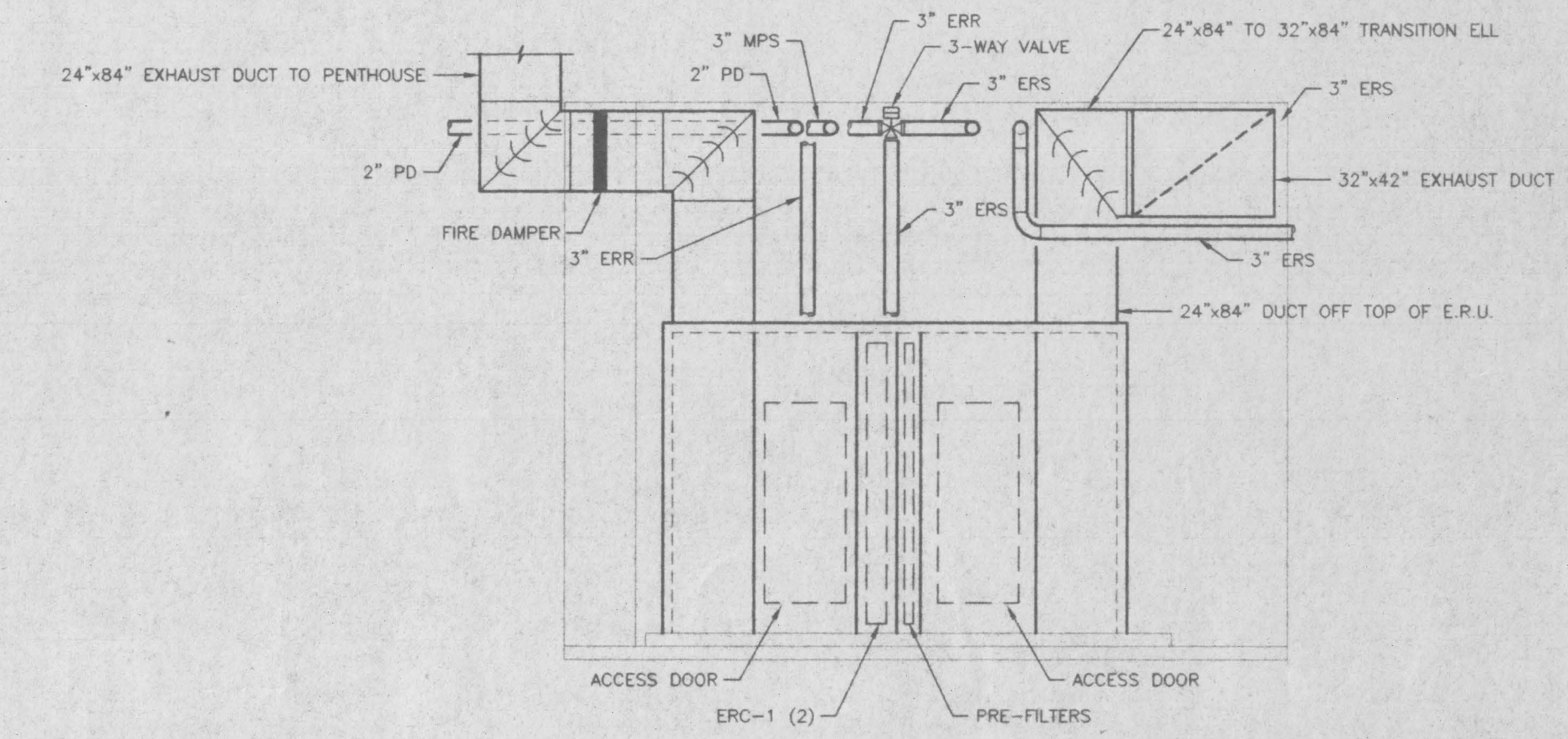
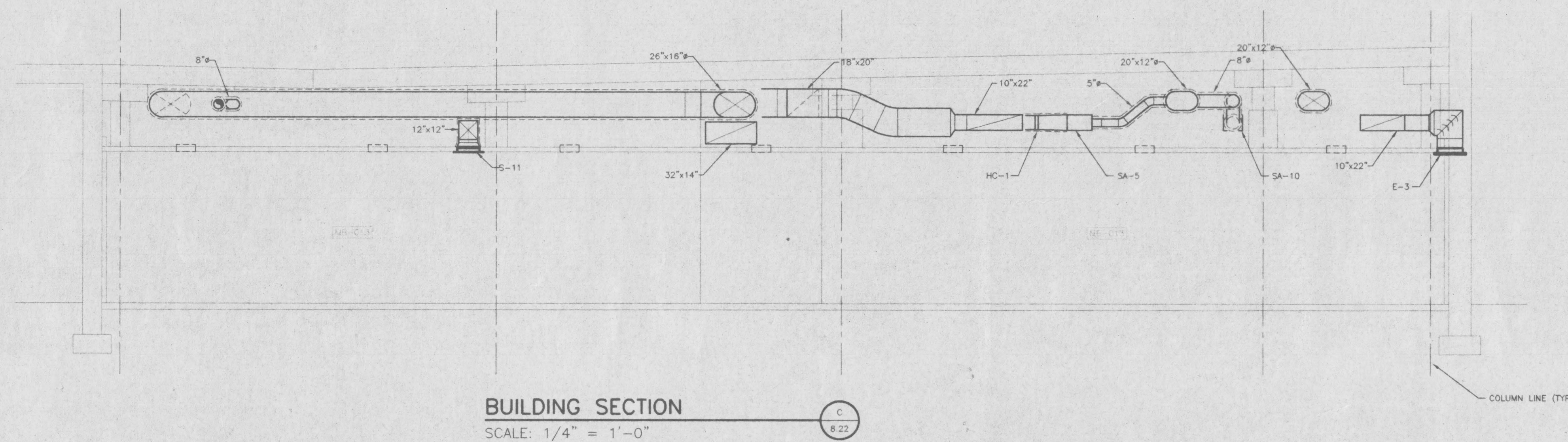
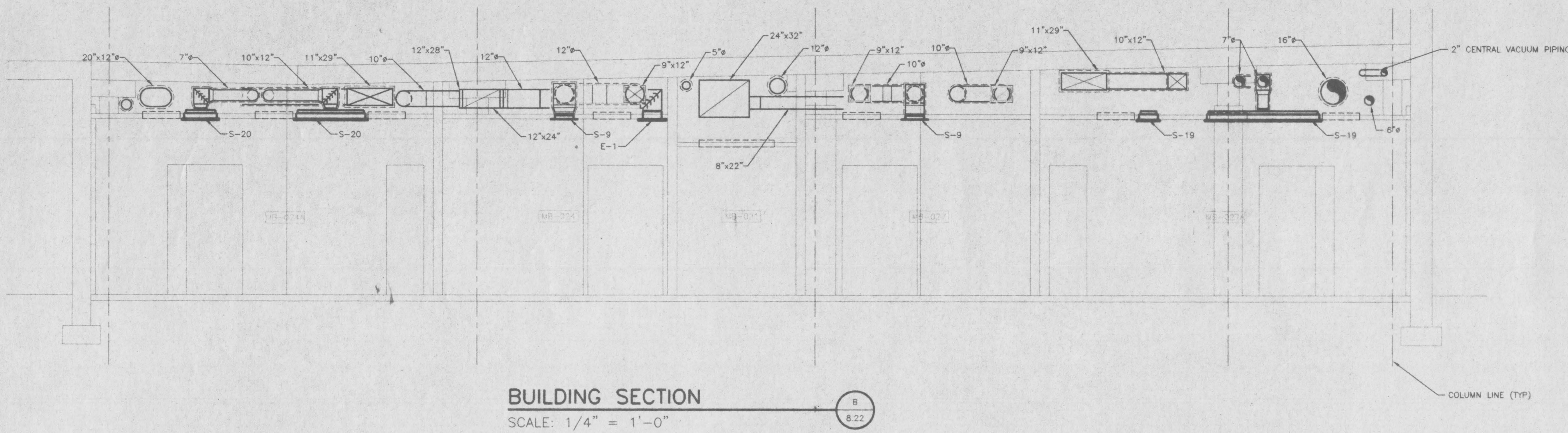
**SHEET NUMBER**  
**8.21**  
**PROJECT NUMBER**

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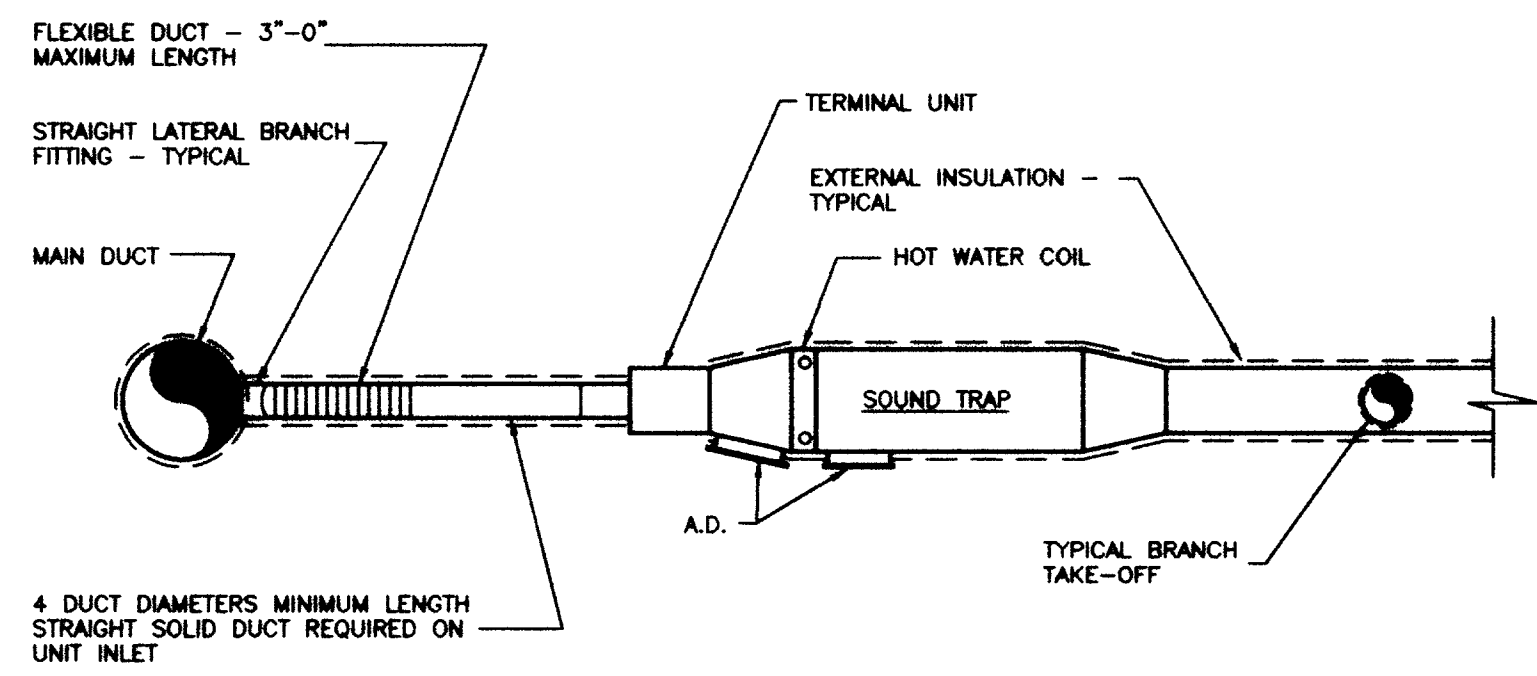


NOTE: THESE SECTIONS ARE TO SHOW ROUTING RELATIONSHIPS WITH FUTURE DUCT AND EQUIPMENT. DUCT INSTALLED UNDER THIS CONTRACT SHALL COORDINATE WITH FUTURE DUCT.

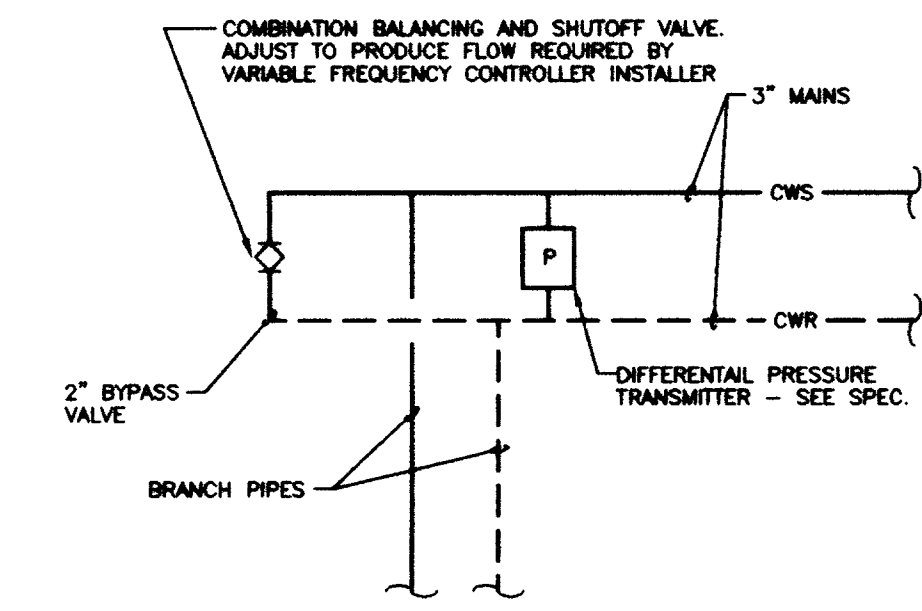




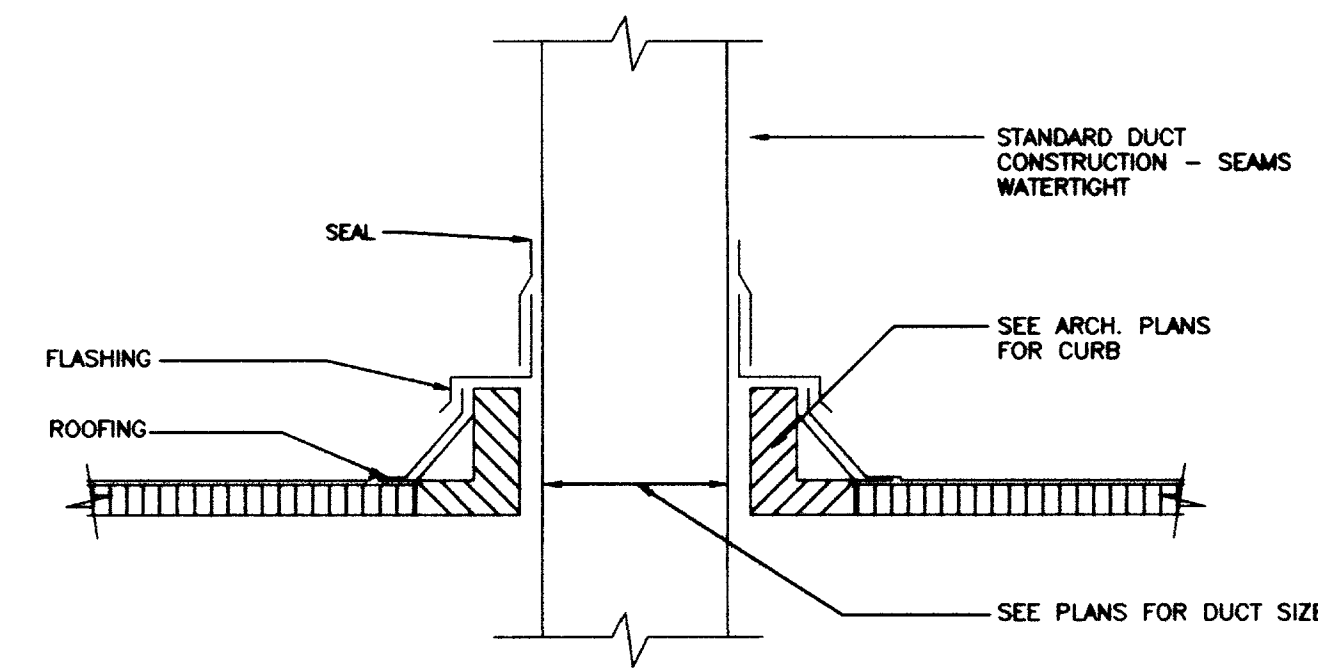




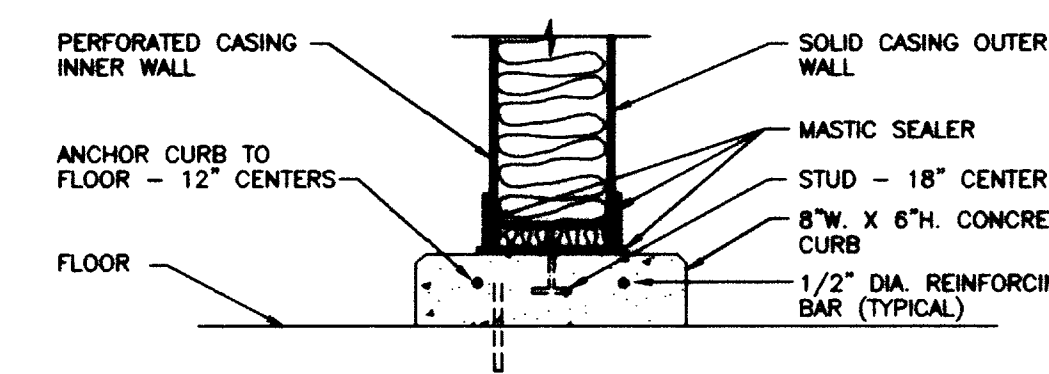
TERMINAL REHEAT UNIT INSTALLATION DETAIL  
NO SCALE



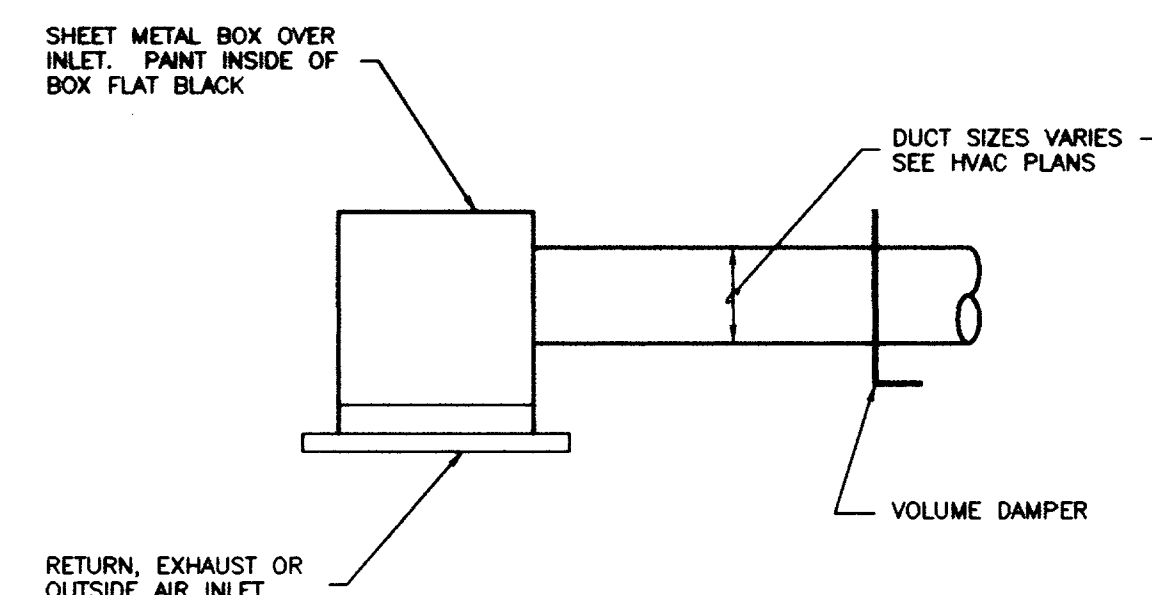
PIPING DIAGRAM - FREQUENCY CONTROLLER  
PRESSURE SENSING  
NO SCALE



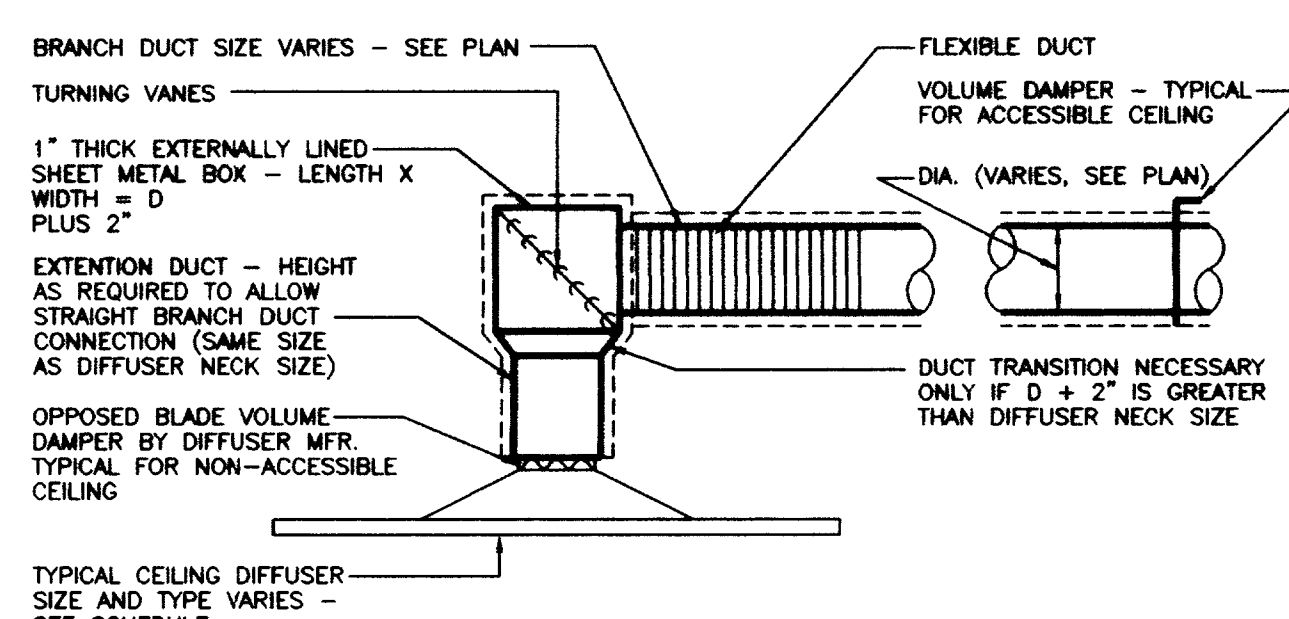
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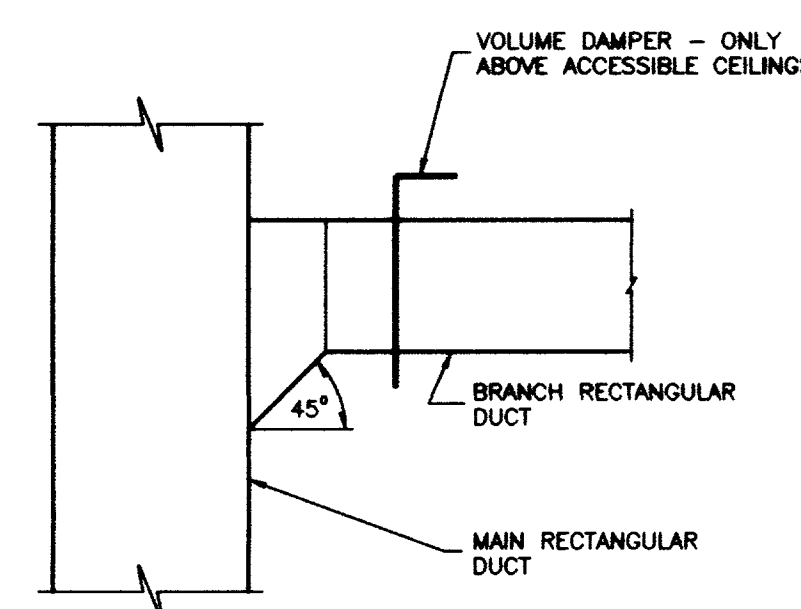
FAN PLENUM CASING CURB DETAIL  
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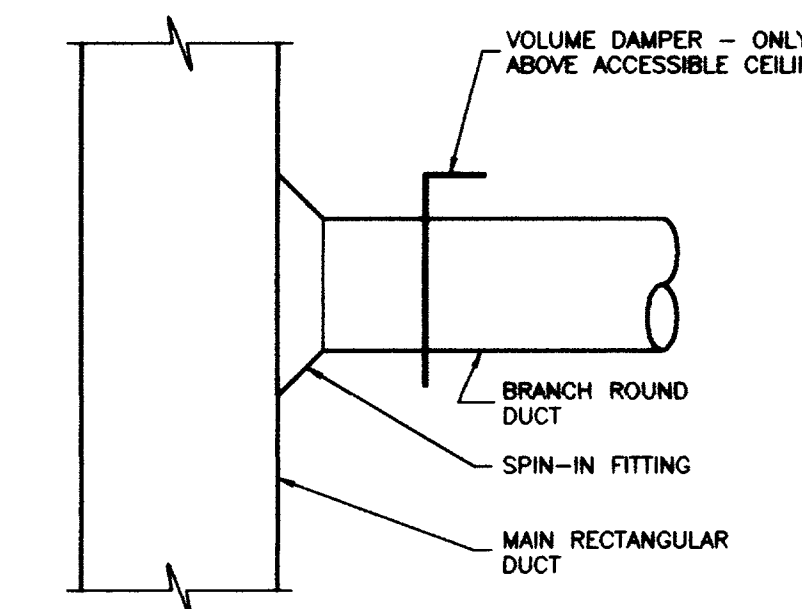
CONNECTION TO RETURN, EXHAUST OR  
OUTSIDE AIR INLET  
NO SCALE



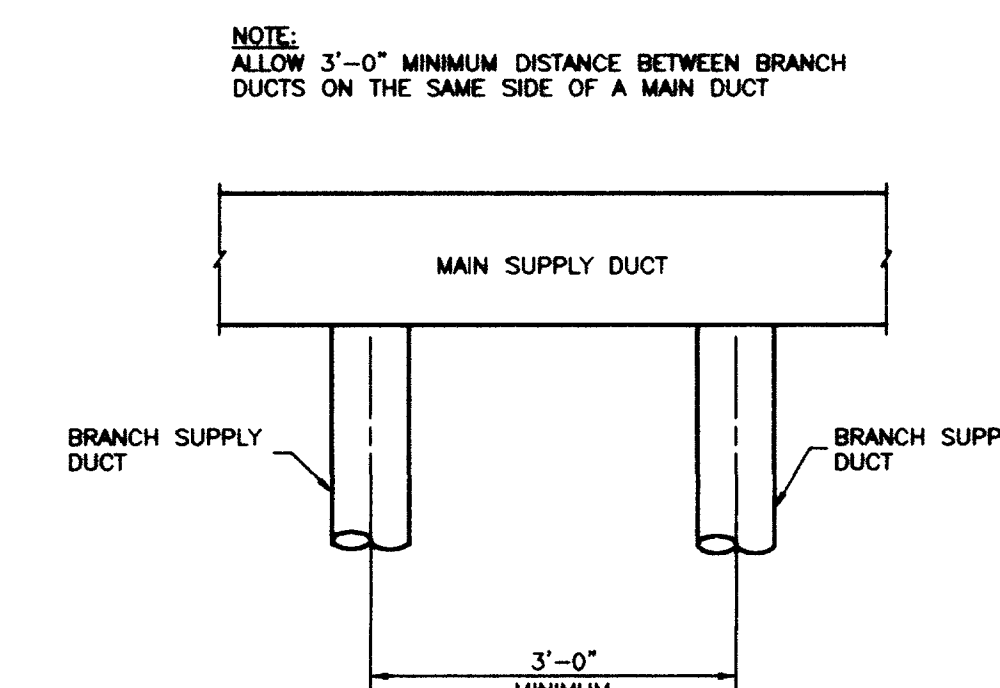
CONNECTION TO S.A. CEILING DIFFUSER  
NO SCALE



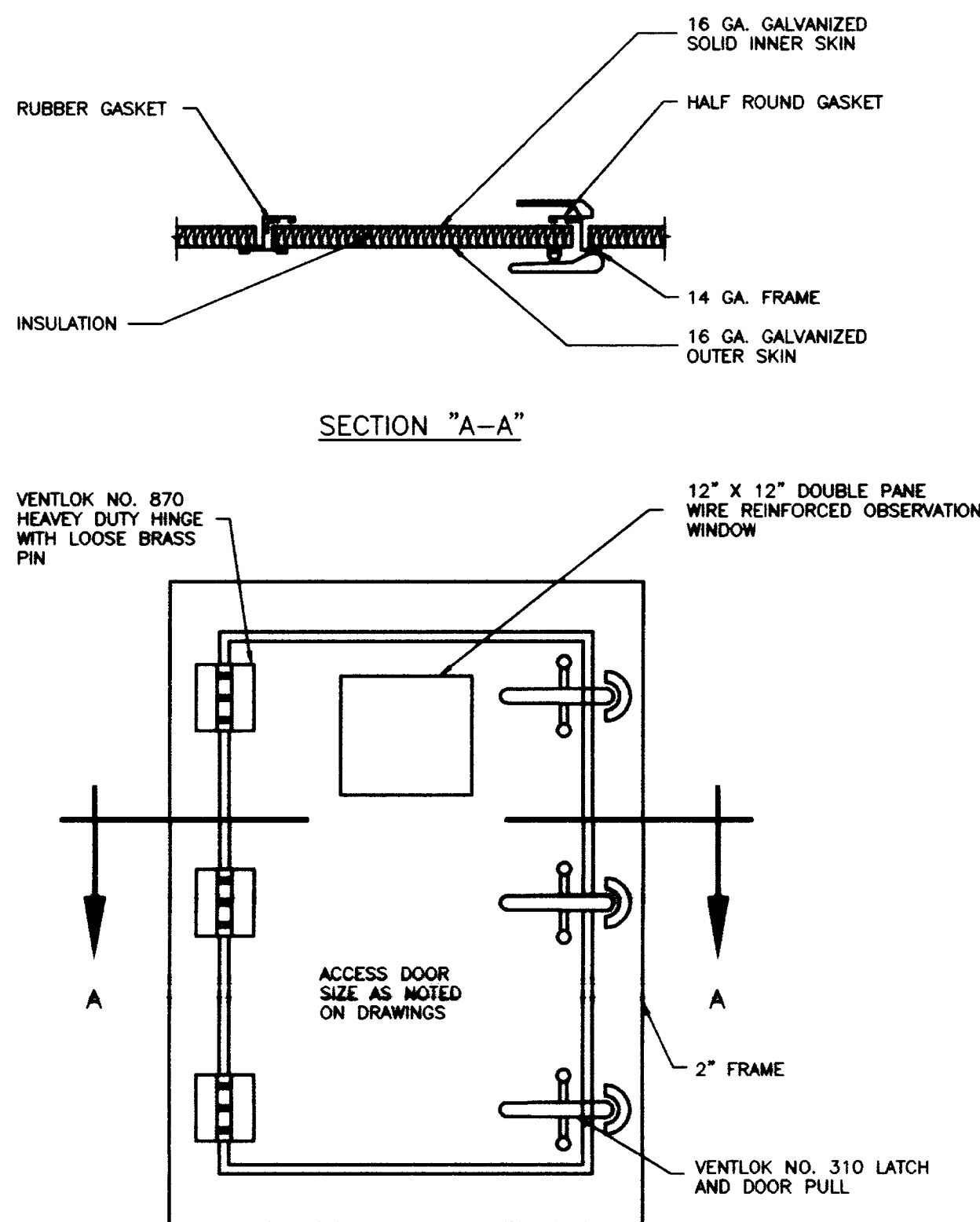
TYPICAL LOW PRESSURE  
RECTANGULAR DUCT TAKE-OFF  
NO SCALE



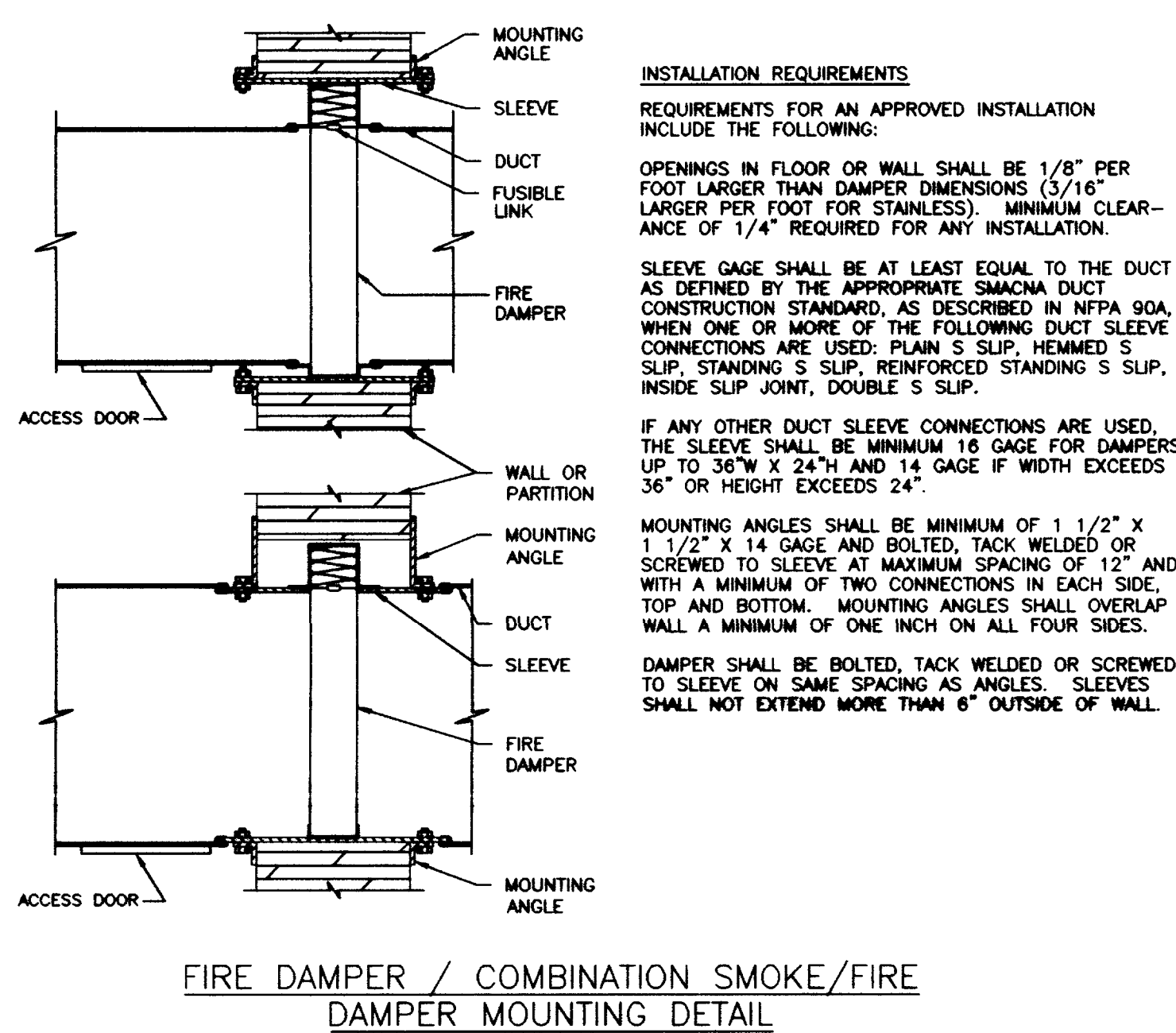
TYPICAL LOW PRESSURE  
ROUND DUCT TAKE-OFF  
NO SCALE



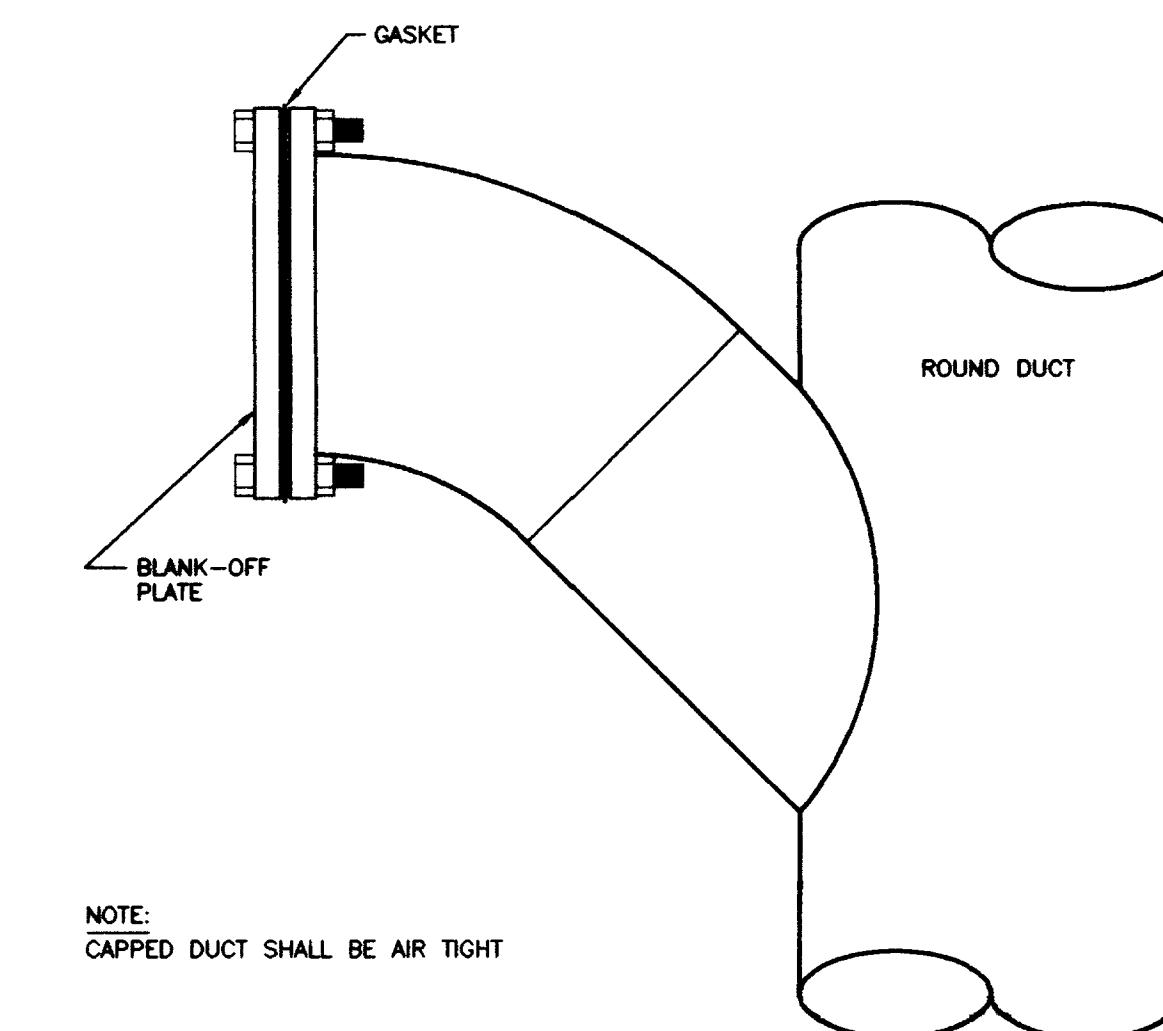
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NO SCALE



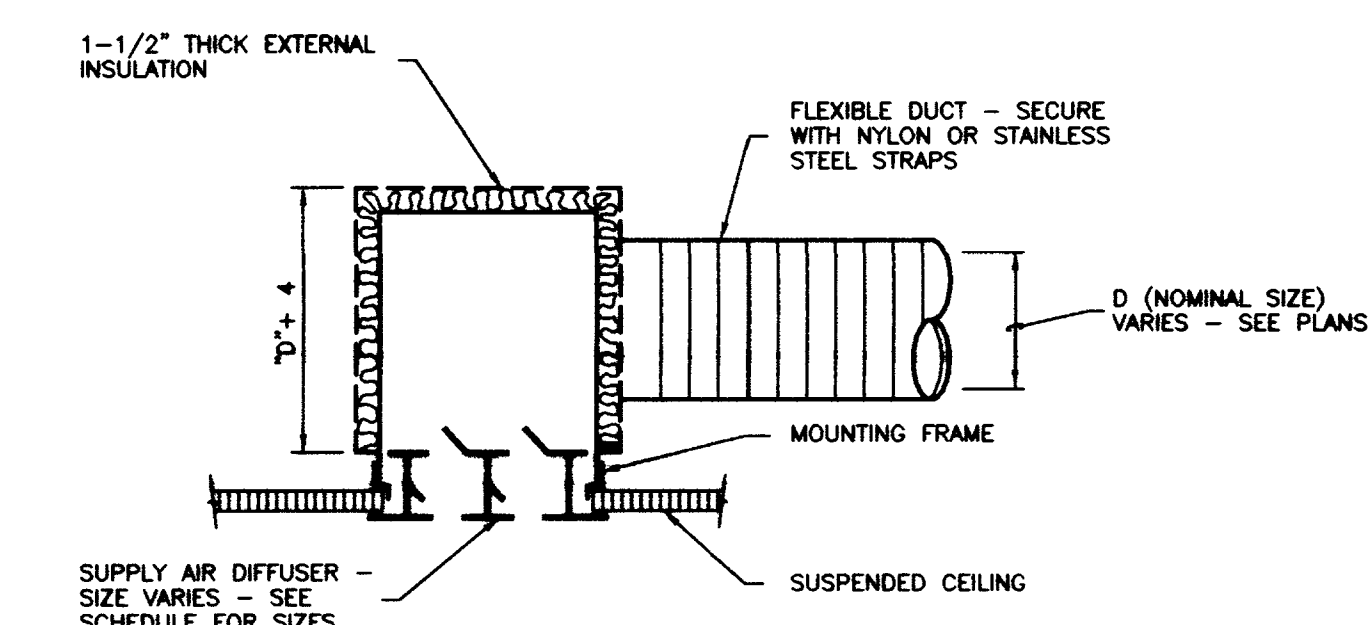
ACCESS DOOR DETAIL  
NO SCALE



FIRE DAMPER / COMBINATION SMOKE/FIRE  
DAMPER MOUNTING DETAIL  
NO SCALE



45° LATERAL TAKEOFF WITH 45° ELBOW AND CAP  
NO SCALE

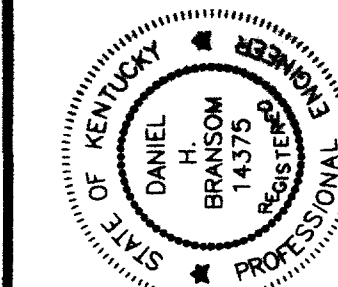
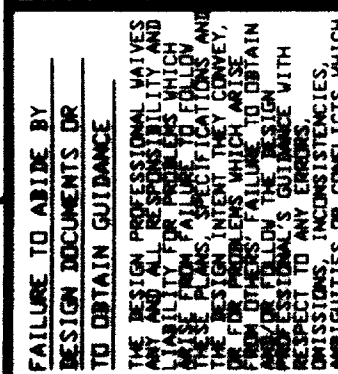
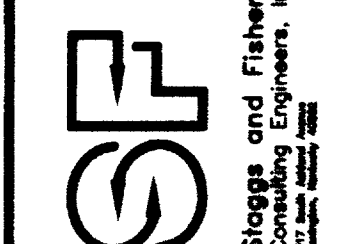
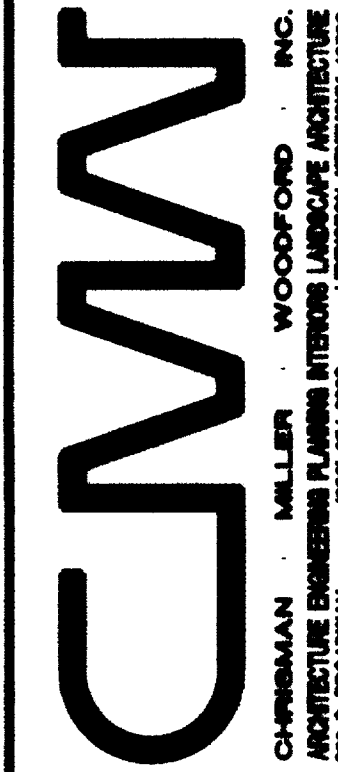


CONNECTION TO LINEAR DIFFUSER  
NO SCALE

RECORD DRAWINGS DATE 8-5-96

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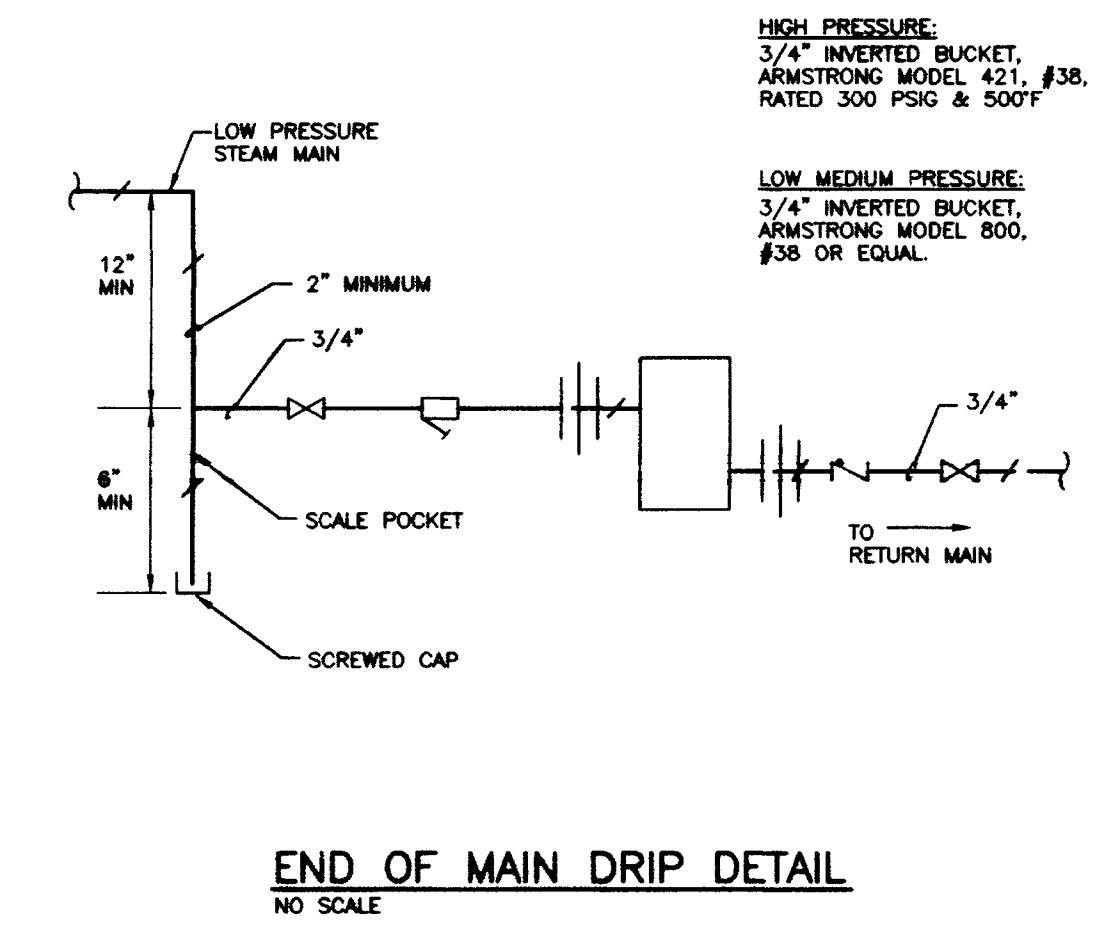
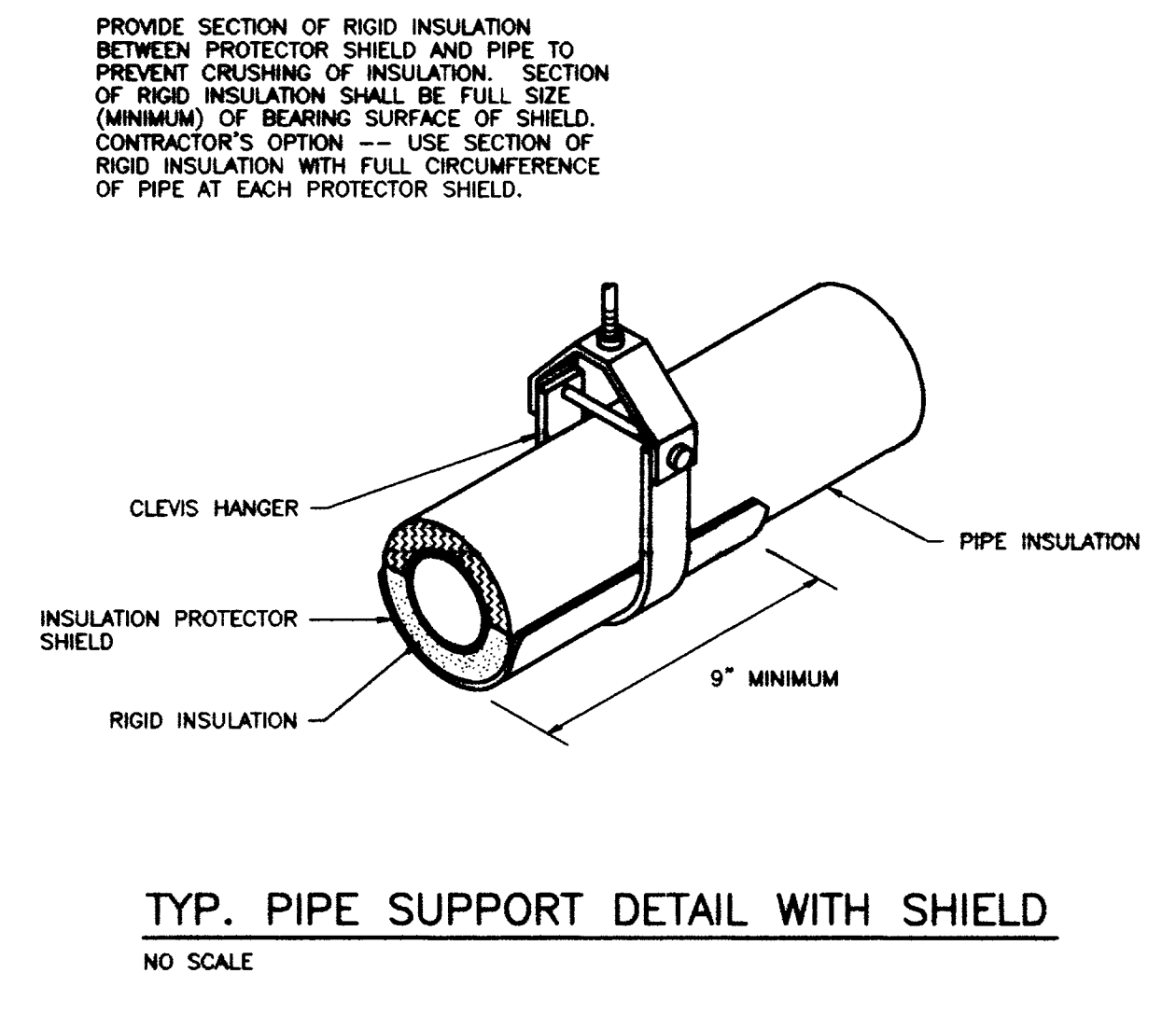
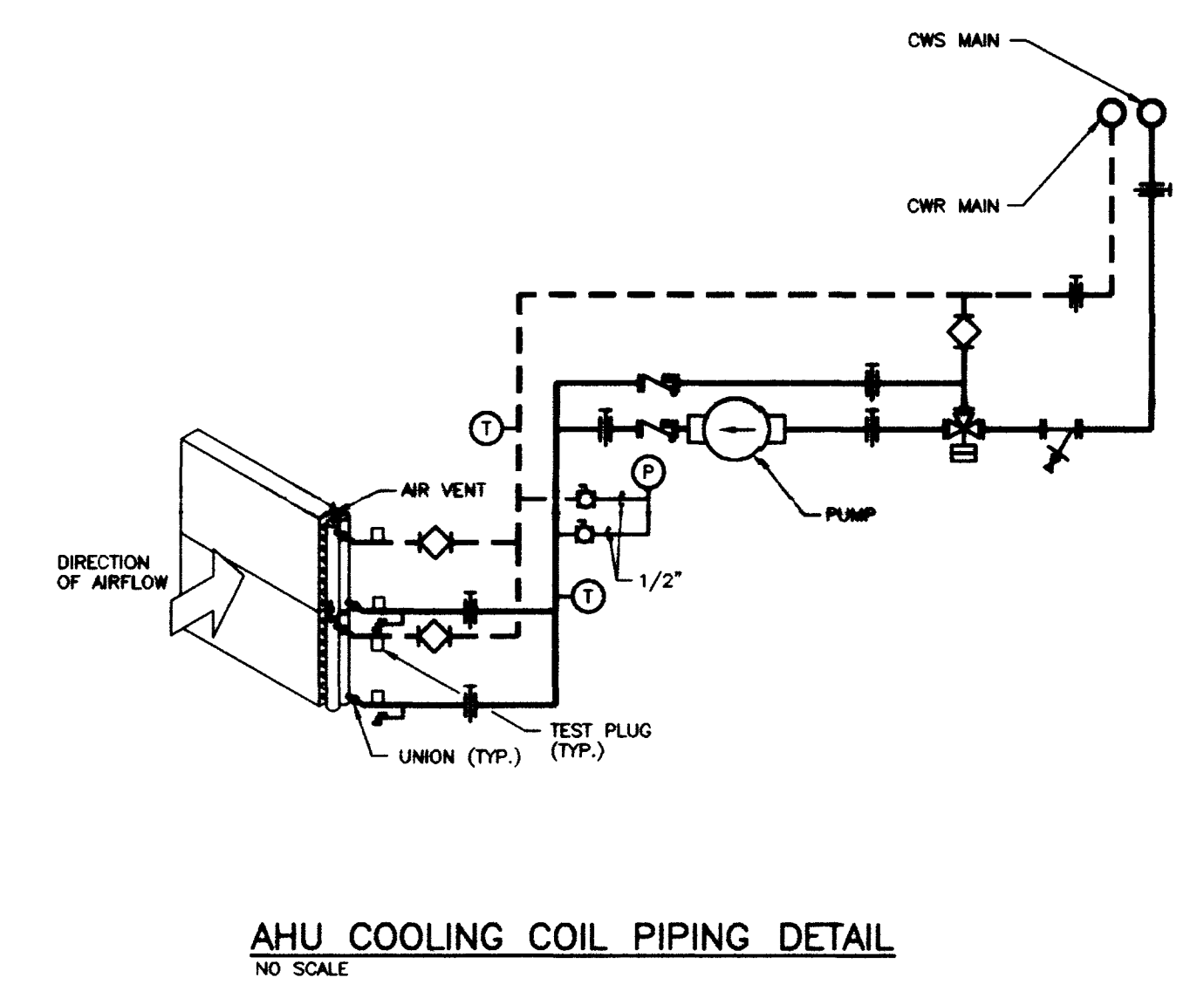
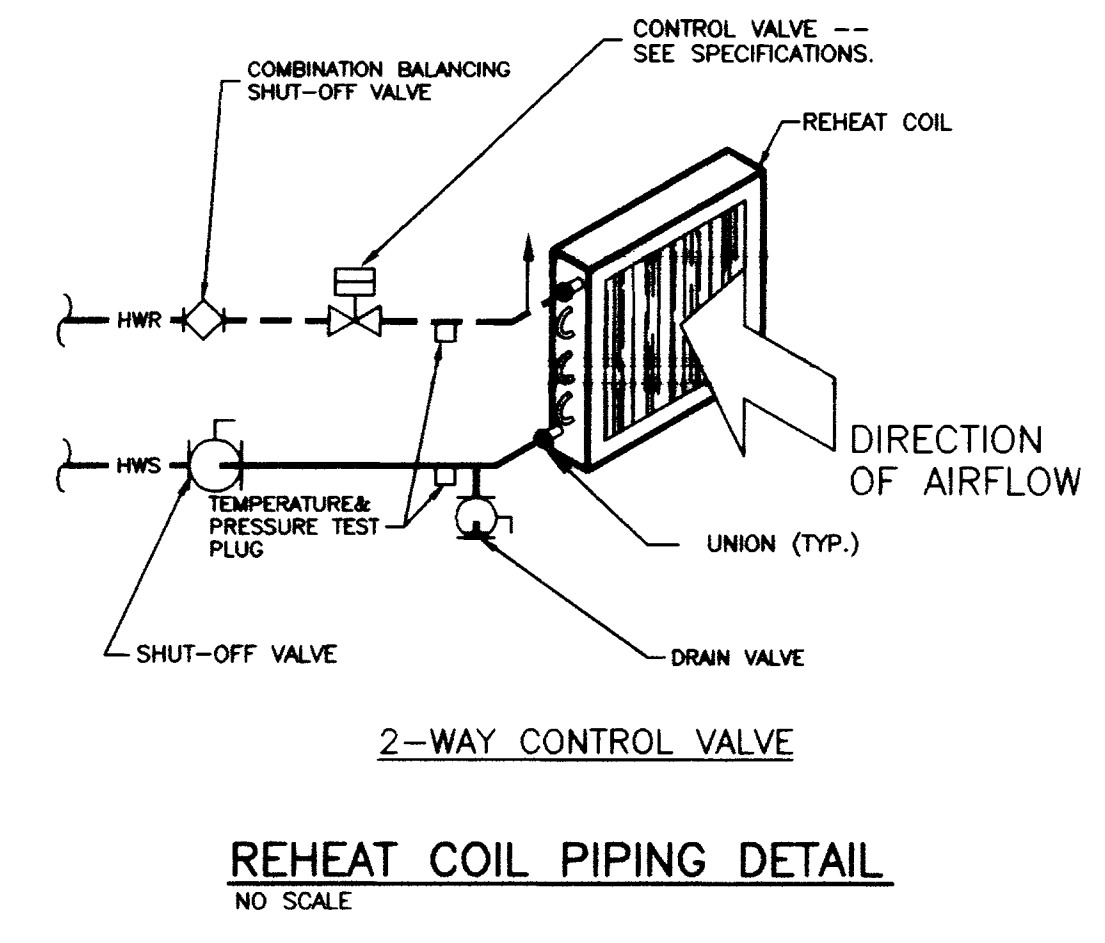
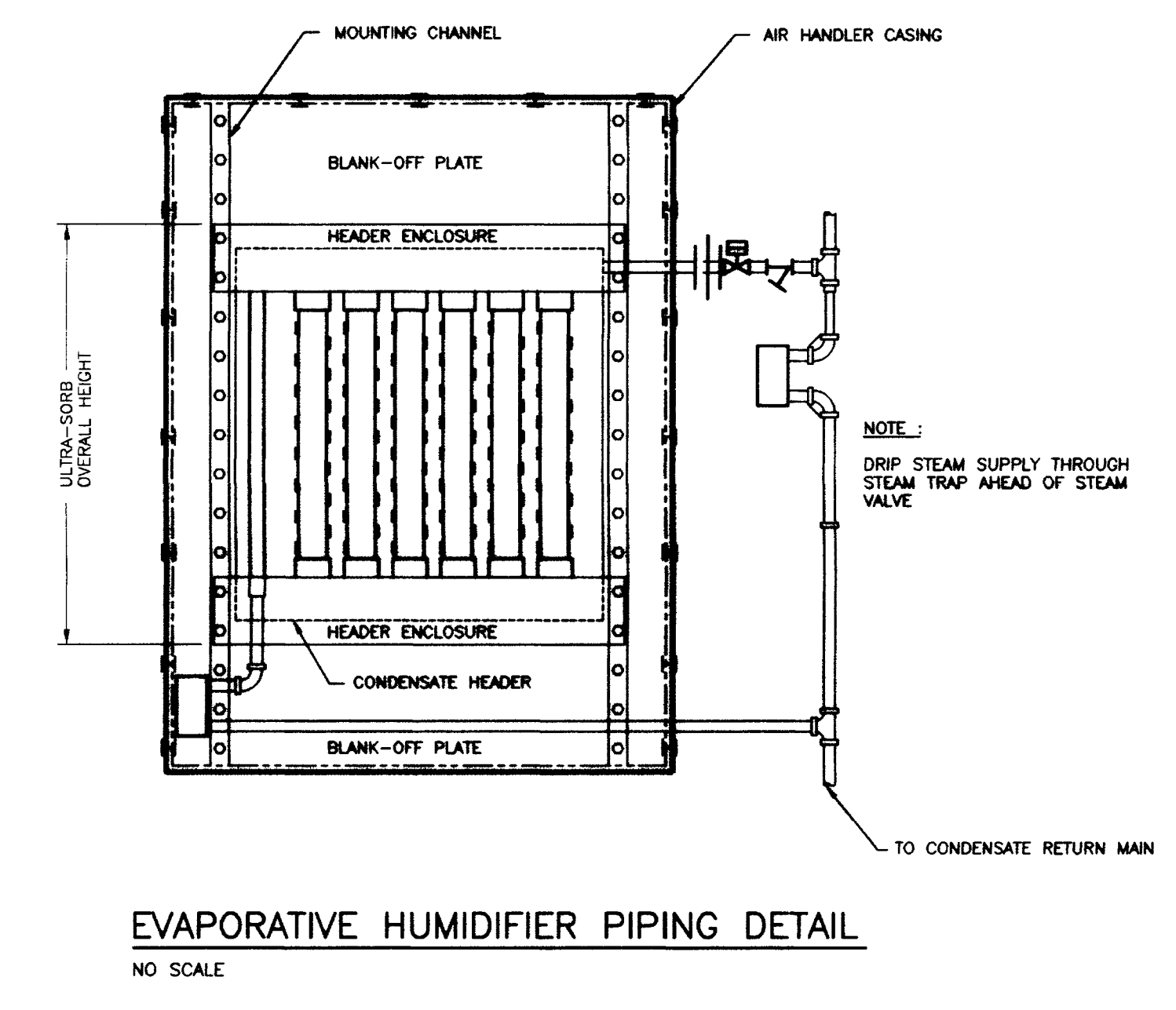
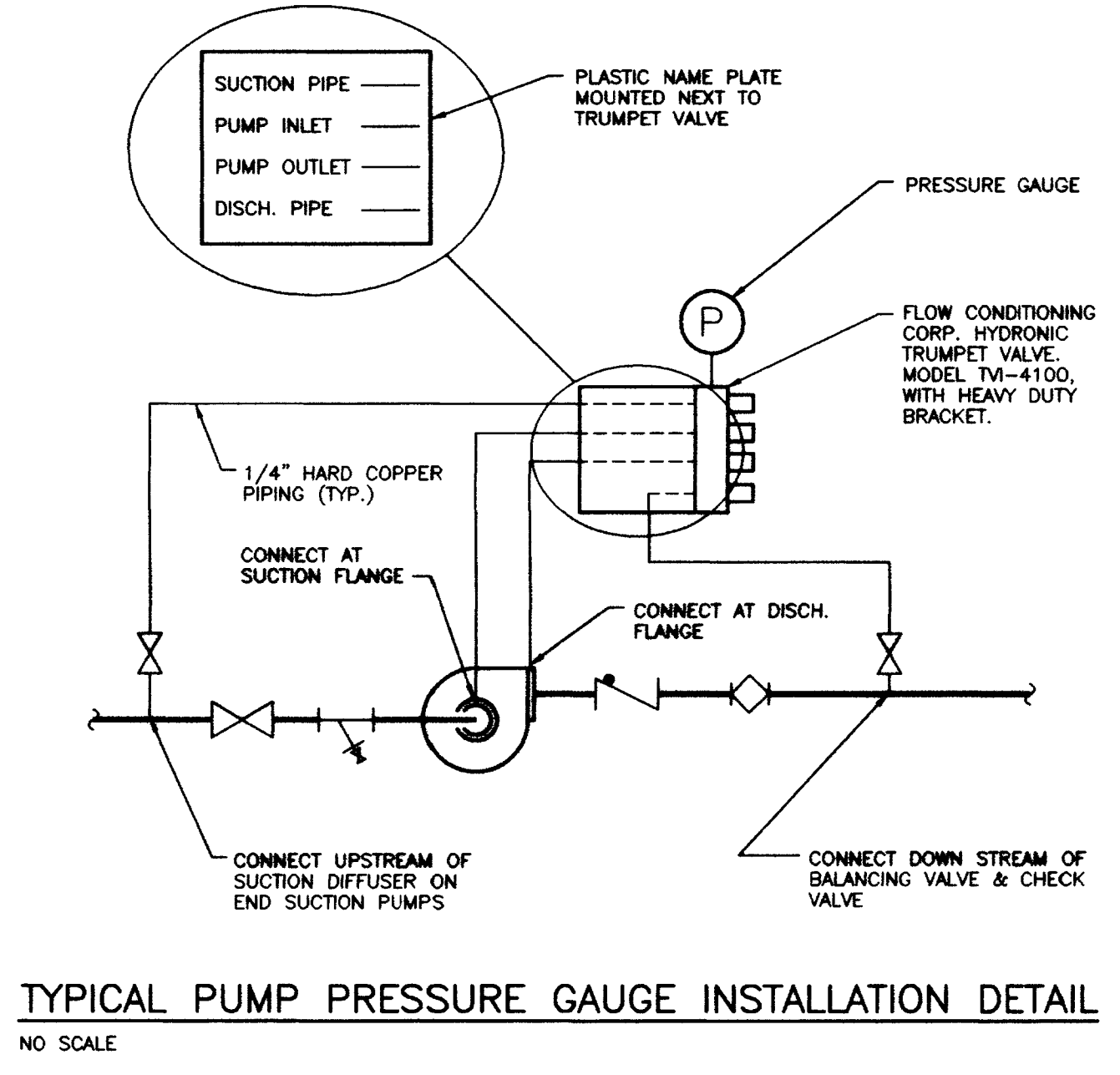
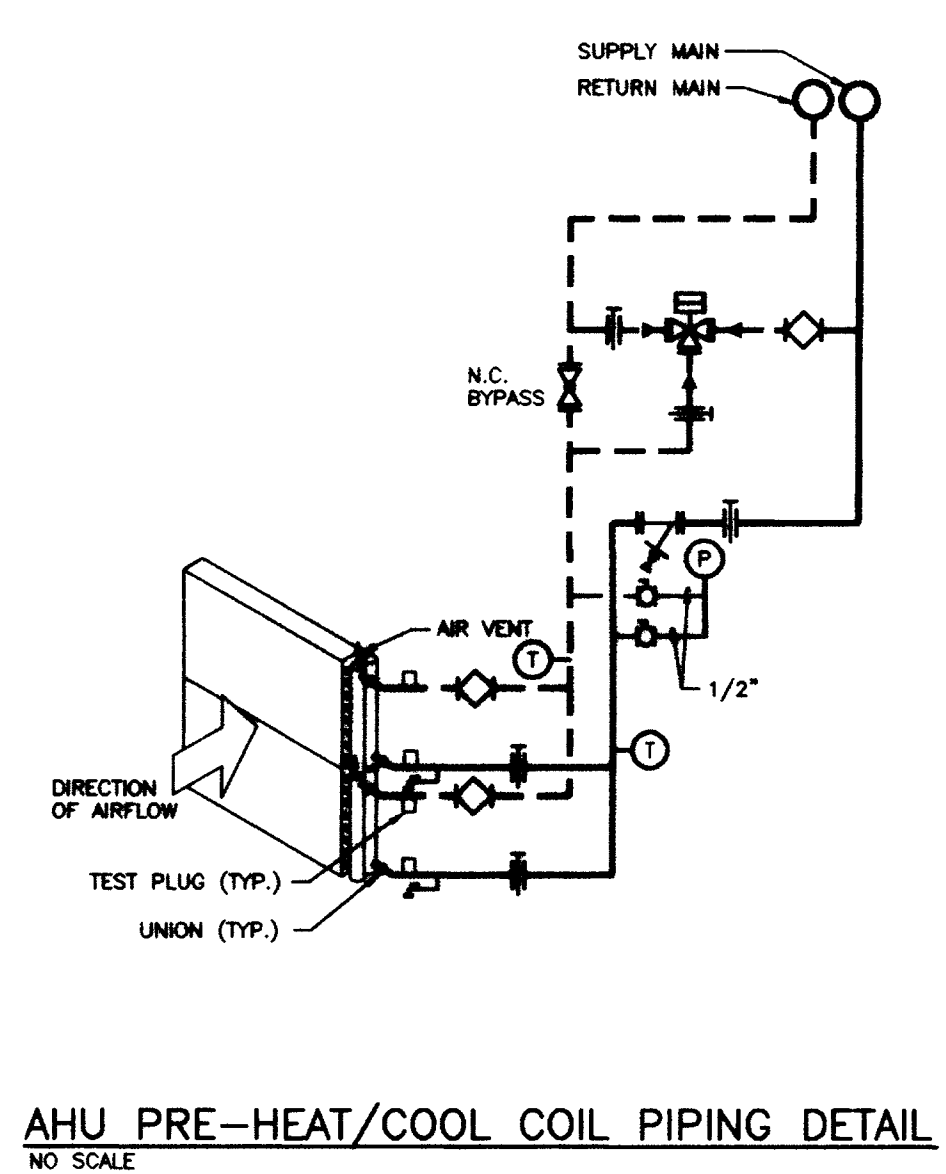
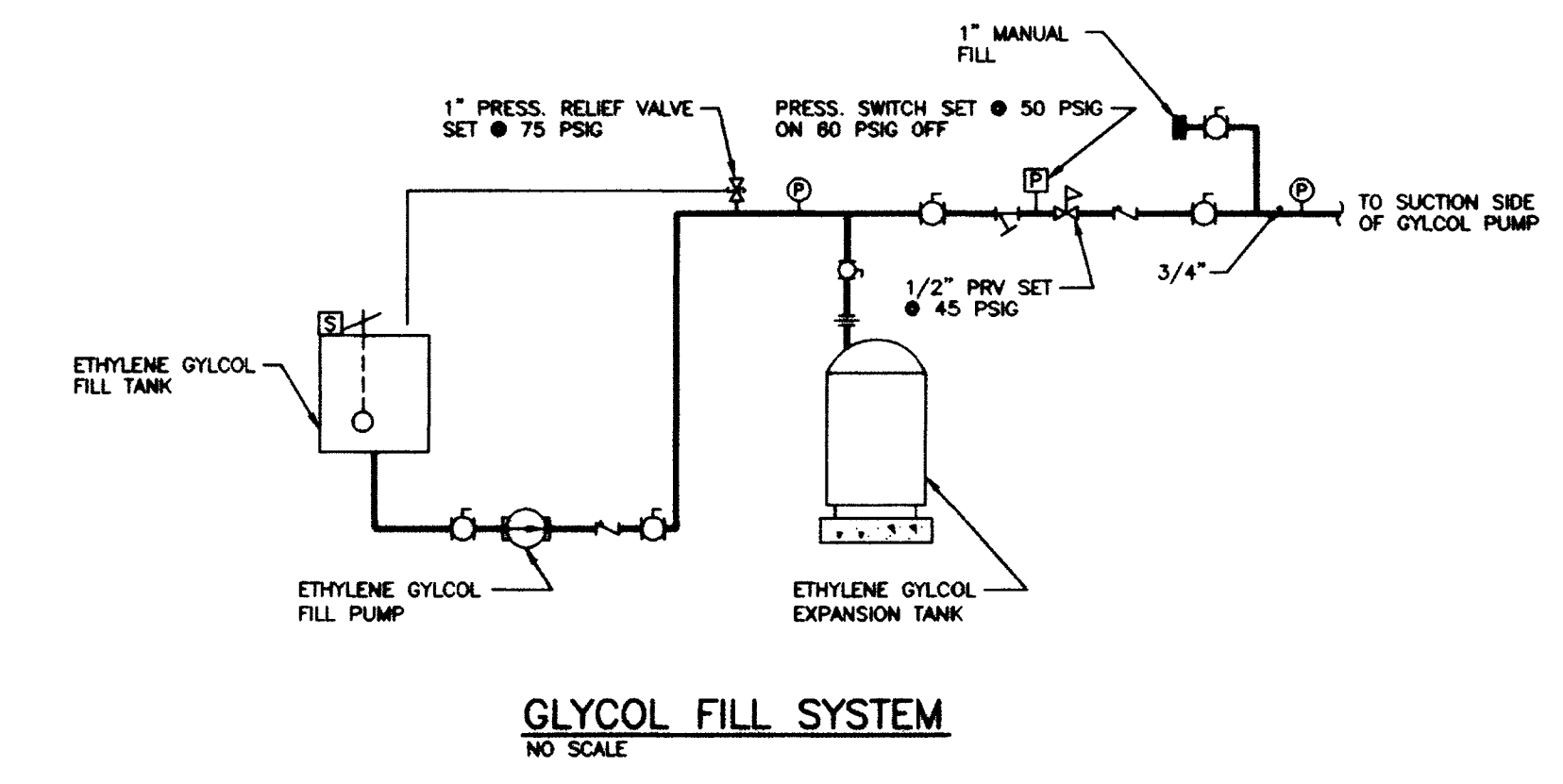
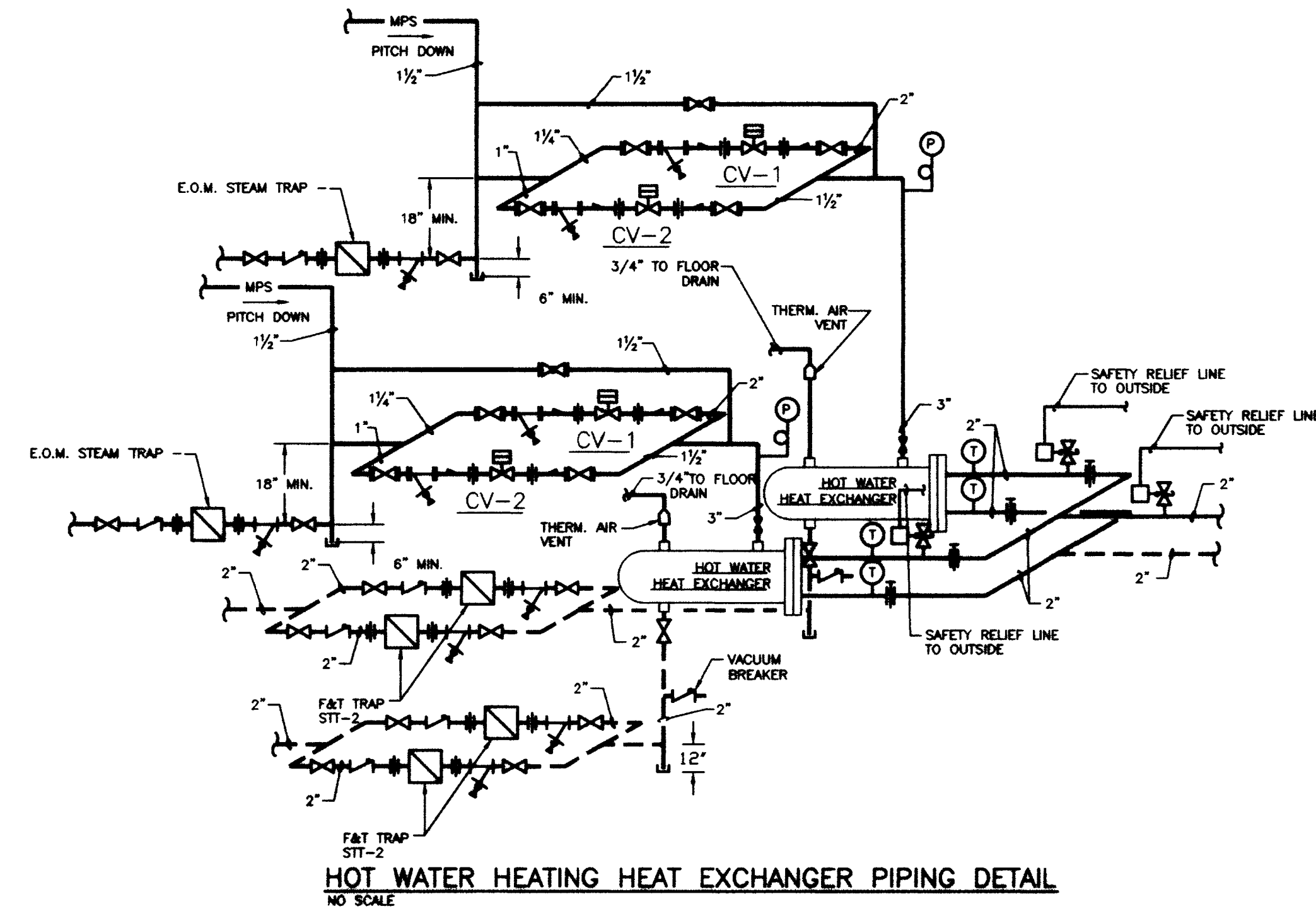
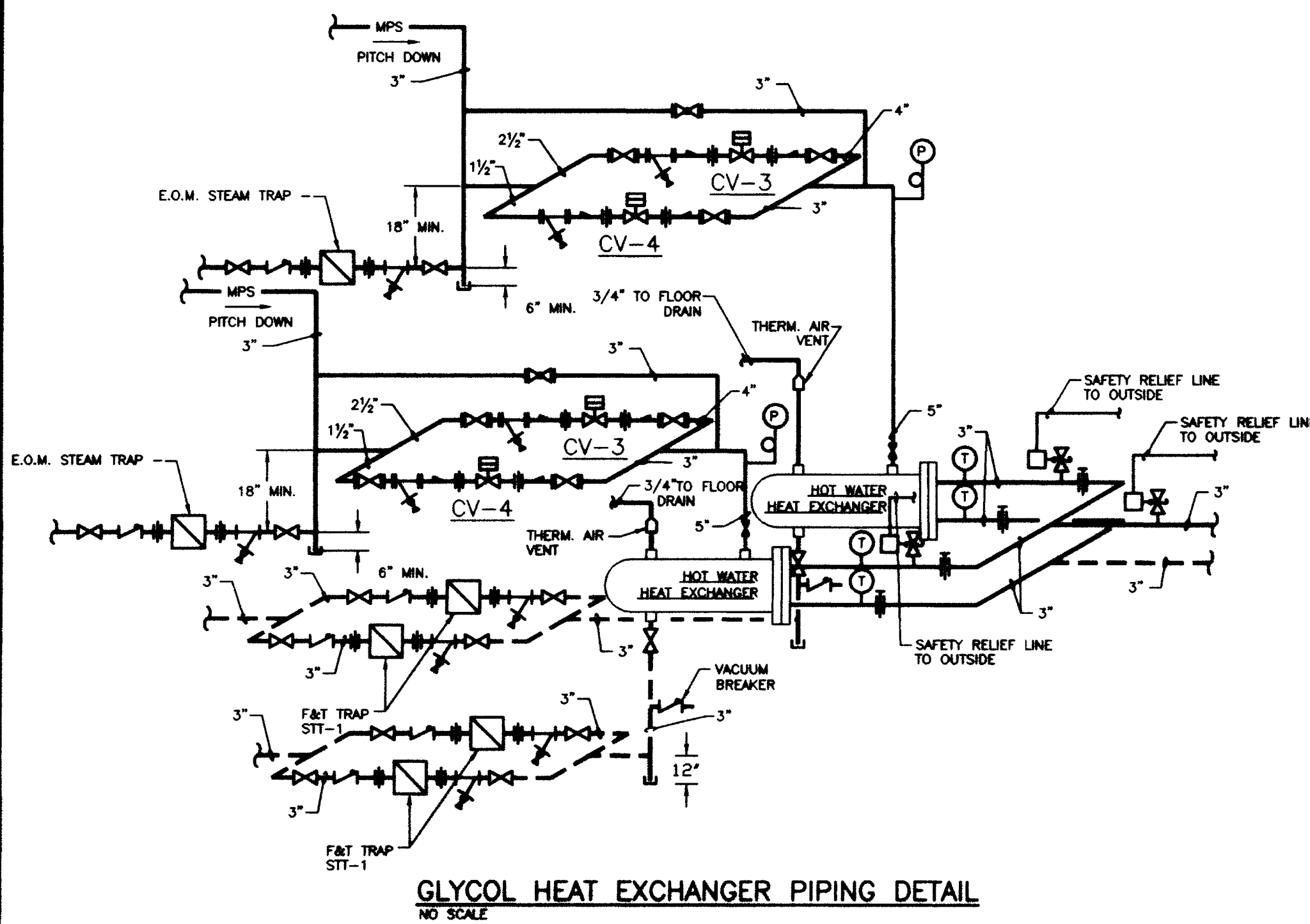


HVAC DETAILS  
Medical Research Fit-up and Security System  
University of Kentucky  
Project No. 747.3

Table with columns for SHEET NUMBER (8.31) and PROJECT NUMBER.







RECORD DRAWINGS DATE 8-5-96  
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**CJM**  
CHERMAN MILLER WOODFORD INC.  
CONSULTING ENGINEERS ARCHITECTS  
1000 WEST WASHINGTON ST. SUITE 1000  
INDIANAPOLIS, IN 46204-1000  
TEL: 317.633.1000 FAX: 317.633.1001

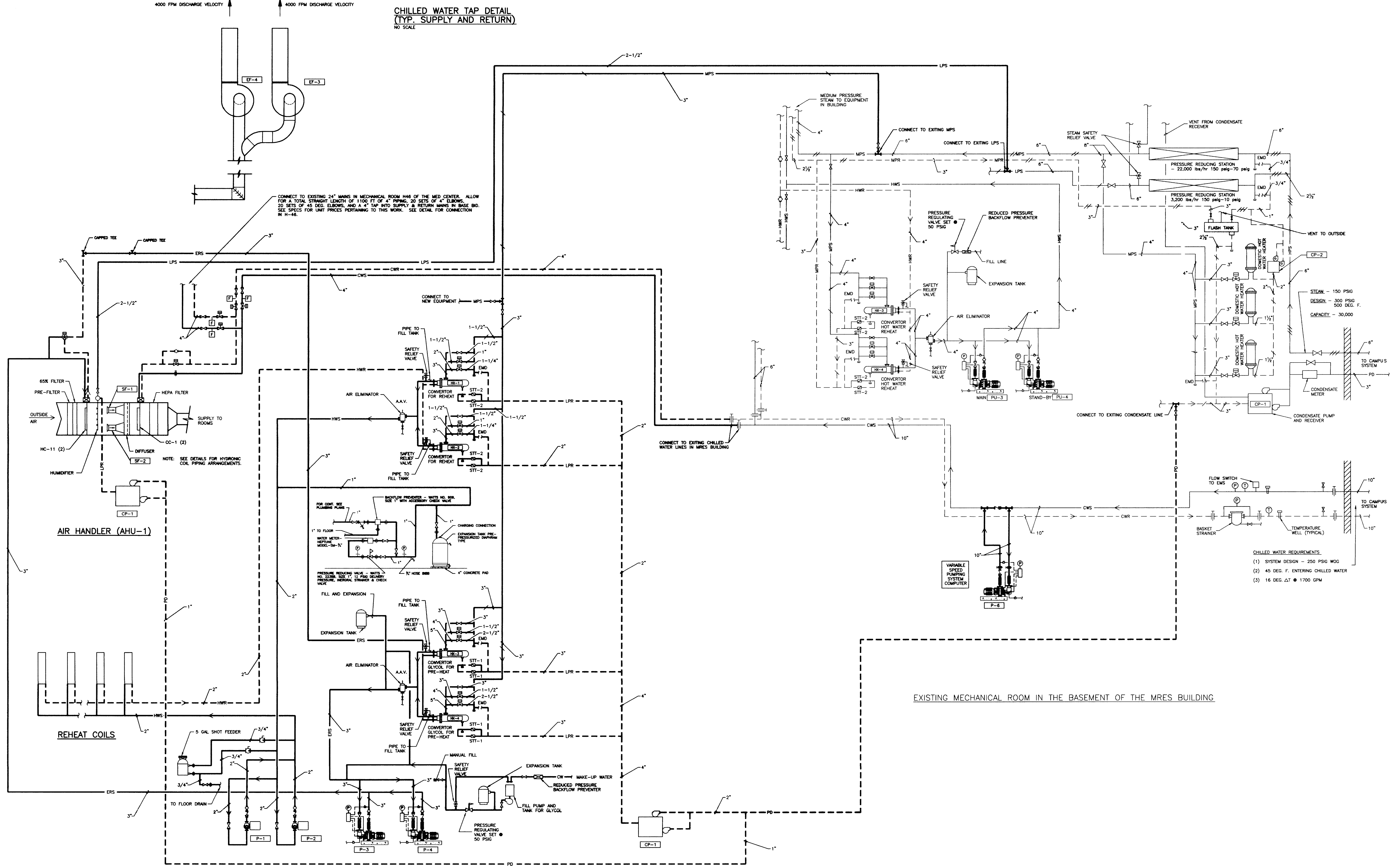
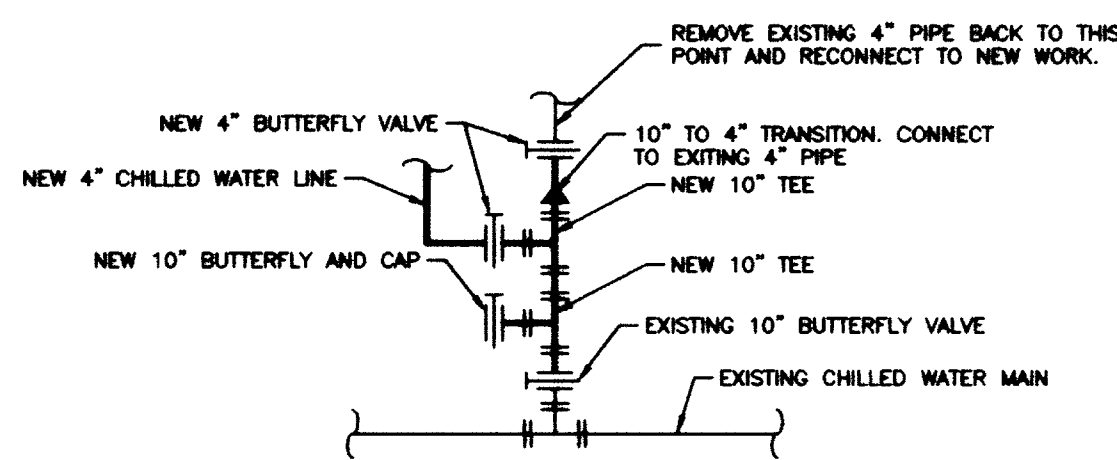
**SF**  
Staggs and Fisher, Inc.  
CONSULTING ENGINEERS  
1000 WEST WASHINGTON ST. SUITE 1000  
INDIANAPOLIS, IN 46204-1000  
TEL: 317.633.1000 FAX: 317.633.1001

FAILURE TO ADHERE TO THESE SPECIFICATIONS MAY BE CAUSE FOR WITHDRAWAL OF THE CONTRACT AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCURRED THEREBY.  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF KENTUCKY  
NO. 10000  
DATE: 08/05/96

**HVAC DETAILS**  
Medical Research Fit-up and Security System  
University of Kentucky  
Project No. 747.3

SHT. PROJECT TITLE  
DATE: MAY 1996  
DRAWN BY: COK  
CHECKED BY: DDB  
REVIEWED:  
DATE:  
SHEET NUMBER  
**8.33**  
PROJECT NUMBER

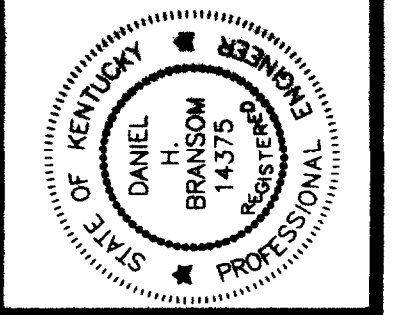
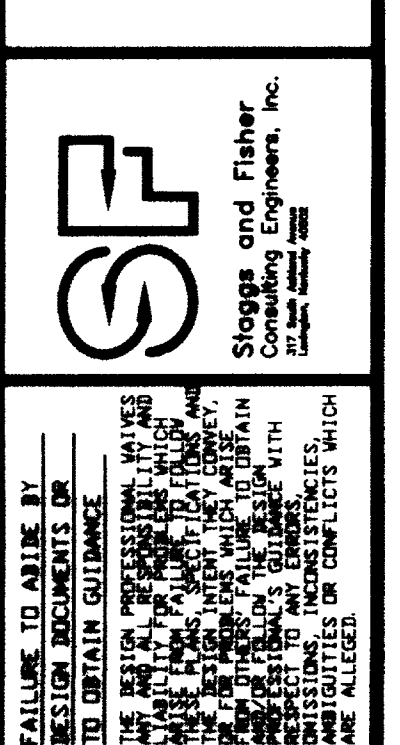




NEW MECHANICAL ROOMS IN THE ANIMAL CARE SHELL SPACE

EXISTING MECHANICAL ROOM IN THE BASEMENT OF THE MRES BUILDING

- CHILLED WATER REQUIREMENTS
- (1) SYSTEM DESIGN - 250 PSIG WOG
  - (2) 45 DEG. F. ENTERING CHILLED WATER
  - (3) 16 DEG. ΔT @ 1700 GPM



HVAC FLOW DIAGRAM

**Medical Research Fit-up and Security System**  
**University of Kentucky**  
**Project No. 747.3**

SHT. PROJECT TITLE

DATE: MAY 1995

DRAWN BY: COX, AKL

CHECKED BY: DHB

REVISED:

DATE 1

2

3

4

RECORD DRAWINGS DATE 8-5-96

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STAGGS & FISHER CONSULTING ENGINEERS, INC.

SHEET NUMBER **8.34**

PROJECT NUMBER

DRAWING: S:\DWG\MECH\MECH-8-34.DWG SCALE: 3/8"=1'-0" DATE: 08/09/96 AT 13:54



SOUND TRAPS table with columns: SYMBOL, MANUFACTURE, MODEL, DIM., CFM, FACE VEL., P.D. IN., INSERTION LOSS, SELF GEN. NOISE, REMARKS.

- \*1 STAINLESS STEEL PACKLESS CONSTRUCTION, USE WITH ALL 10" & 12" VALVES EXHAUSTING FUME HOODS. \*2 GALVANIZED STEEL CONSTRUCTION, BAGGED FILL, BAG MATERIAL SHALL MEET THE 25/50 FLAME/SMOKE RATING.

AIR FILTER table with columns: SYMBOL, MFR., MODEL, TYPE, DIM., FACE VELOCITY, INITIAL S.P., FINAL S.P., FILTER SIZE, ASHRAE EFFICIENCY, REMARKS.

- \*1 PROVIDE FACTORY GASKETED, REAR SERVICED FILTER HOUSING. \*2 PLEATED PREFILTER, CLASS 1, 2" THICK. \*3 PLEATED SECONDARY PREFILTER, CLASS 1, 12" THICK.

COOLING COILS table with columns: SYMBOL, MFR., MODEL NO., ROWS, F.P.I., CFM, VEL., A.P.D., E.A.T., L.A.T., GPM, EWT, LWT, WATER P.D., DIM., REMARKS.

- \*1 2 COILS HIGH IN ANIMAL CARE AIR HANDLER. \*2 2 COILS HIGH IN ANIMAL CARE ENERGY RECOVERY UNIT.

HEATING COILS table with columns: SYMBOL, MFR., MODEL NO., ROWS, F.P.I., TOT. CAP., CFM, VEL., A.P.D., E.A.T., L.A.T., GPM, W.P.D., DIM., REMARKS.

- \*1 2 COILS HIGH IN ANIMAL CARE AIR HANDLER.

4TH FLOOR - VAR. VOLUME TERMINAL REHEAT UNITS table with columns: SYMBOL, MFR., MODEL, MAXIMUM CFM RANGE, INLET SIZE, HEATING COIL, CONTROL VALVE NO., SOUND TRAP NO., DUCT SIZE, REMARKS.

- \*1 UNLESS OTHERWISE NOTED

FANS table with columns: SYMBOL, MFR., MODEL, TYPE, SONES, CFM, S.P. IN., FAN BHP, MOTOR HP, RPM, PH, VOLTS, WHEEL TYPE, DIAM., REMARKS.

- \*1 OCTAVE BAND NO./HZ: 1/102, 2/105, 3/108, 4/108, 5/102, 6/101, 7/99, 8/92. \*2 ANIMAL CARE SUPPLY FAN WITH INLET DAMPER AND MOTOR OPERATOR.

STEAM TRAPS table with columns: SYMBOL, MFR., TYPE, MODEL, ORF. SIZE (INCH), MAX. OPER. PRESS. (PSI), TYPE OF CONNECTION, CONNECTION SIZE, CAPACITY (LBS/HR), PRESSURE DIFF. (PSI), REMARKS.

- \*1 PROVIDE TRAP WITH INTEGRAL VACUUM BREAKER

CONDENSATE PUMPS AND RECEIVERS table with columns: SYMBOL, MFR., MODEL, RECEIVER CAP., GPM, DISCHARGE PRESS., MOTOR HP, RPM, PH, VOLTS, REMARKS.

PUMPS table with columns: SYMBOLS, MFR., SERIES, SIZE, GPM, HEAD FT., BHP, HP, MOTOR RPM, PH, VOLTS, SHUT-OFF HEAD FT., END OF CURVE FLOW - GPM, TYPE, REMARKS.

- \*1 IN-LINE CIRCULATOR. \*2 CLOSE-COUPLED END SUCTION PUMP. \*3 BASE-MOUNTED END SUCTION PUMP.

ANIMAL CARE - VAR. VOLUME TERMINAL UNITS table with columns: SYMBOL, MFR., MODEL, CFM, DUCT CONNECTION, INLET T.P., SOUND TRAP NO., REMARKS.

- \*1 NC AT MINIMUM STATIC PRESSURE +1.5". \*2 HC-1 OR HC-2 SEE FLOOR PLANS. \*3 HC-12 OR HC-13 SEE FLOOR PLANS. \*4 HC-14 OR HC-15 SEE FLOOR PLANS. \*5 HC-16 & HC-17 SEE FLOOR PLANS.

MSC. EQUIPMENT:

HEAT EXCHANGER (HX-182): BELL & GOSSET, MODEL SUI10 3-2. UNIT SHALL BE DESIGNED FOR A MAX. WORKING PRESSURE OF 150 PSIG. TUBESIDE FLUID-ETHYLENE GLYCOL/H2O (40/60), 100PSI. INLET TEMP. = 35F, OUTLET TEMP. = 65F, W.P.D. = 0.1 PSIG. SHELL SIDE FLUID-STEAM 180F, STEAM PRESSURE 5 PSIG.

VARIABLE VOLUME EXHAUST TERMINAL UNITS table with columns: SYMBOL, MFR., MODEL, MAXIMUM CFM RANGE, DUCT INLET, CONN. OUTLET, SOUND TRAP NO., T.P.D., REMARKS.

- \*1 NC BASED ON 10 DB ROOM EFFECT, 2' Δ PS. \*2 GALVANIZED STEEL CONSTRUCTION. \*3 ALUMINUM CONSTRUCTION WITH CORROSION RESISTANT COATING (SEE SPEC.). \*4 PROVIDE ST-4 ON VALVES USED WITH FUME HOODS.

SCHEDULE OF GRILLES AND DIFFUSERS table with columns: SYMBOL, MFR., TYPE, PANEL SIZE, DIFFUSER SIZE, DIMENSIONS, CFM, P.D. IN. W.G., THROW FT., SOUND LEVEL DBA, NC, DIRECTION OF THROW, MOUNTING, REMARKS.

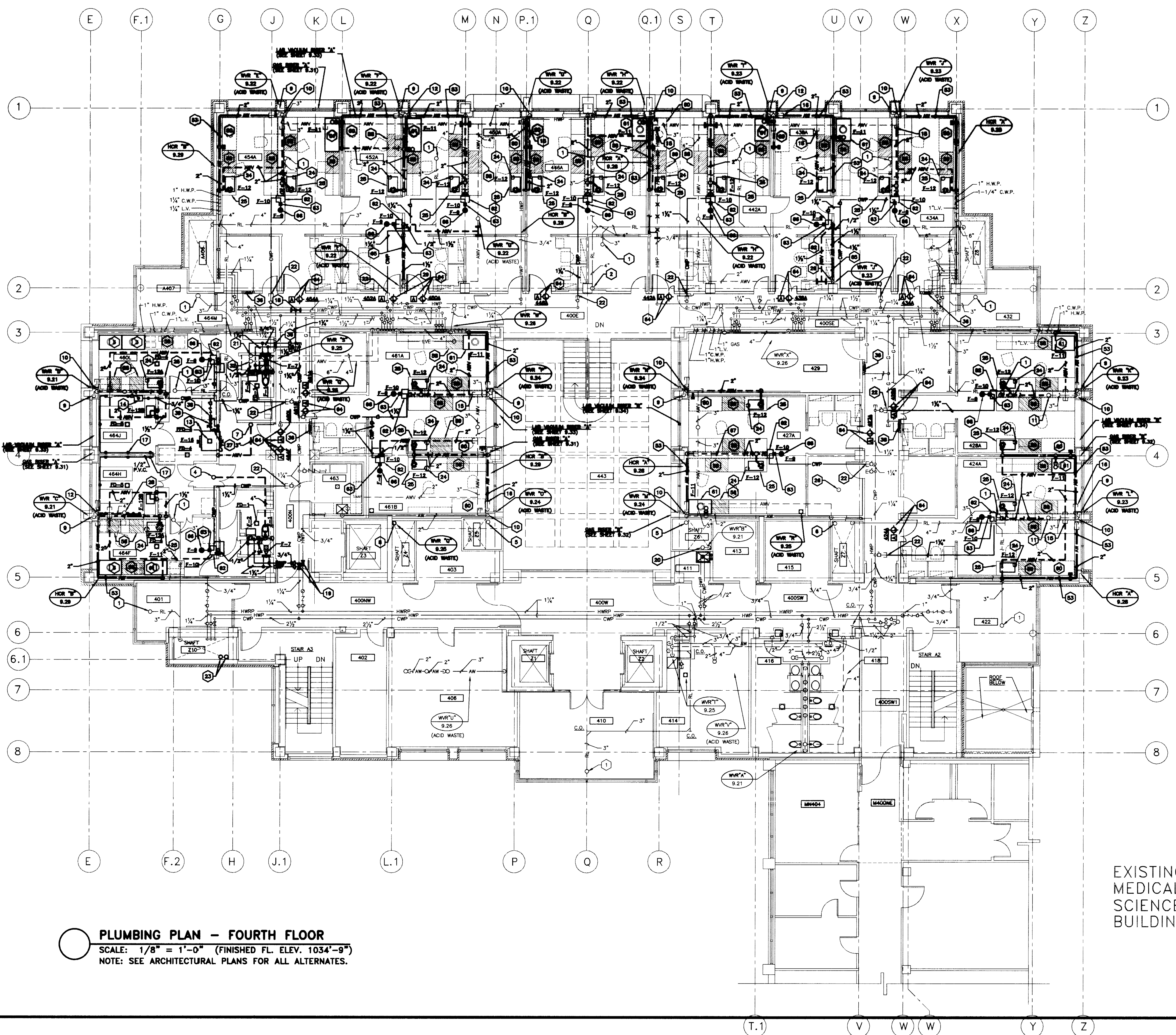
- \*1 OFF WHITE PERFORATED DISTRIBUTION PLATE WITH BLACK BACK PAN, STEEL CONSTRUCTION. \*2 45 DEGREE DEFLECTION, HEAVY DUTY CONSTRUCTION STEEL CONSTRUCTION, OFF WHITE FINISH. \*3 THROW 6' AT 50 FPM. \*4 CONTRACTOR TO FIELD VERIFY. \*5 SLAD, 3 - 3/4" SLOTS, ANODIZED ALUMINUM FINISH.

HUMIDIFIERS table with columns: SYMBOL, MANUFACTURER, MODEL, CFM, ENT. STEAM P.S.I.G., CONTROL VALVE # PER HR., DIST. MANIFOLD LENGTH, HEIGHT, CENTERS, REMARKS.



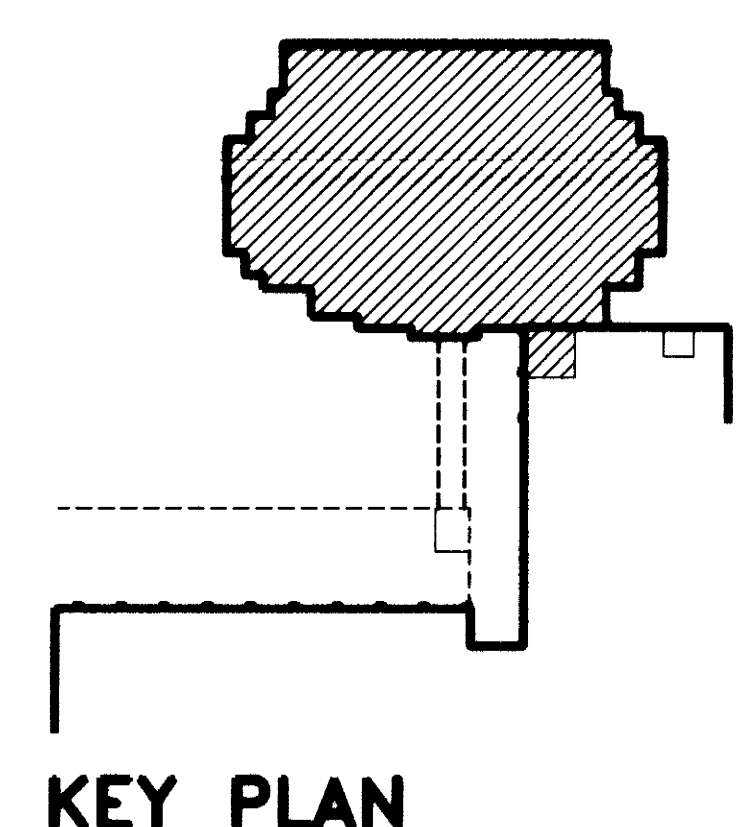
ROOM NO.	ROOM NAME	ROOM NO.	ROOM NAME
400E	CORRIDOR	442	WORK STATION
400SE	CORRIDOR	442A	LAB
400S	CORRIDOR	443	ATRIUM
400SW	CORRIDOR	444	OFFICE
400W	CORRIDOR	445	WORK STATION
400NW	CORRIDOR	446	LAB
400NE	CORRIDOR	447	OFFICE
401	INTERACTION	448	WORK STATION
402	JANTONS EQUIPMENT	450A	LAB
403	ELECTRIC ROOM	452	WORK STATION
406	CLEANING	454	LAB
410	GENERAL CONFERENCE	454A	WORK STATION
411	JANTONS CLOSET	456	OFFICE
413	ELECTRIC ROOM	458	INTERACTION
414	COFFEE/POKING	459	OFFICE
415	COMMUNICATIONS ROOM	461	WORK STATION
416	MENS TOILET	461A	LAB
418	WOMENS TOILET	461B	LAB
422	INTERACTION	463	COLD ROOM
424	WORK STATION	464	ANTE ROOM
424A	LAB	464A	LOCKER
425	OFFICE	464B	TOILET
427	WORK STATION	464C	VESTIBULE
427A	LAB	464D	DECONTAMINATION
428	WORK STATION	464E	LAB
429	LAB	464F	LAB
429A	SHARED EQUIPMENT	464G	LAB
432	OFFICE	464H	ANIMAL ROOM
433	INTERACTION	464I	ANIMAL ROOM
434	WORK STATION	464J	LAB
435	LAB	464K	DECONTAMINATION
436	OFFICE	464L	LAB
438	WORK STATION	464M	SHOWER
438A	LAB	464N	VESTIBULE
438B	LAB	464O	LOCKER
440	OFFICE	464P	LAB
		464R	TOILET

- 1 EXISTING 3" ROOF LEADER UP TO 3" ROOF DRAIN TO REMAIN.
- 2 EXISTING 4" ROOF LEADER UP TO 4" ROOF DRAIN TO REMAIN.
- 3 BIO-SAFETY CABINET (7-10) --- PLUMBING CONNECTIONS REQUIRED: GAS AND LAB VACUUM.
- 4 NEW 4" VENT LINE UP TO NEW 4" V.T.R.
- 5 EXISTING 6" ROOF LEADER UP AND DOWN TO REMAIN.
- 6 EXISTING 3" ACID WASTE VENT LINE UP AND DOWN TO REMAIN.
- 7 NEW 3" ACID WASTE VENT LINE UP TO NEW 4" ACID WASTE V.T.R.
- 8 EXISTING 4" ACID WASTE VENT LINE UP AND 4" ACID WASTE LINE DOWN TO REMAIN.
- 9 EXISTING 3" ACID WASTE VENT LINE DOWN TO REMAIN.
- 10 EXISTING 3" ACID WASTE VENT LINE DOWN (3" ACID WASTE LINE THROUGH FLOOR) TO REMAIN.
- 11 EXISTING 3" ACID WASTE VENT LINE UP TO 4" ACID WASTE V.T.R. TO REMAIN.
- 12 EXISTING 4" ACID WASTE VENT LINE DOWN (4" ACID WASTE LINE THROUGH FLOOR) TO REMAIN.
- 13 STERILIZER (7-10) --- PLUMBING CONNECTIONS REQUIRED: COLD WATER AND WHITE DRAIN.
- 14 AUTOMATIC WATERING SYSTEM CONTROL BOX. SEE DETAIL ON SHEET 8.41.
- 15 CONNECT TO EXISTING CAPPED 2" ACID WASTE VENT LINE IN CEILING SPACE (TYPICAL).
- 16 CONNECT TO EXISTING CAPPED 2" ACID WASTE LINE NEAR FLOOR (TYPICAL).
- 17 LOCATION OF RECOIL HOSE DROP (TYPICAL). LOCATE AS DIRECTED.
- 18 CONNECT TO EXISTING 1-1/4" H.W.P. LINE IN FOURTH FLOOR CEILING SPACE.
- 19 CONNECT TO EXISTING 3/4" H.W.P. AND 1-1/4" C.W.P. LINES IN FOURTH FLOOR CEILING SPACE.
- 20 EXISTING 3" VENT LINE UP AND DOWN TO REMAIN.
- 21 EXISTING 4" VENT LINE UP TO 4" V.T.R. TO REMAIN.
- 22 CONNECT TO EXISTING CAPPED 1-1/4" COLD WATER LINE IN CEILING SPACE.
- 23 3" MEDICAL VACUUM AND 3" WASTE GAS EXHAUSTION EXHAUST VENT VENT LINES UP AND DOWN.
- 24 LOCATION OF DISCHARGED WASTE UNIT IN SINK CABINET.
- 25 LABORATORY UNIT WITH SINK --- PLUMBING CONNECTIONS REQUIRED: HOT WATER, COLD WATER, DISCHARGED WASTE AND ACID WASTE DRAIN.
- 26 EXISTING CAPPED 1-1/2" ACID WASTE LINE STUBBED UP 2" ABOVE SUPERFLOOR FLOOR SLAB IN LABORATORY FULL TO REMAIN.
- 27 SINK ABOVE TYPE "X".
- 28 EXISTING 4" ACID WASTE VENT LINE UP TO 4" ACID WASTE V.T.R. TO REMAIN.
- 29 EXISTING 2" ACID WASTE VENT LINE DOWN (2" ACID WASTE LINE THROUGH FLOOR) TO REMAIN.
- 30 NOT USED.
- 31 NOT USED.
- 32 EXISTING 6" ACID WASTE VENT LINE UP TO 6" ACID WASTE V.T.R. TO REMAIN.
- 33 NOT USED.
- 34 NOT USED.
- 35 NOT USED.
- 36 EXISTING WASTED GAS SHUT-OFF VALVE IN REDUCED VALVE BOX TO REMAIN. SEE DETAIL ON SHEET 8.42.
- 37 NOT USED.
- 38 1" REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER. PIPE DRAIN LINE FULL SIZE TO FLOOR DRAIN UNDER STERILIZER.
- 39 1" PRESSURE REDUCING VALVE. SET OUTLET PRESSURE AT EQUIPMENT MANUFACTURERS REQUIREMENT.
- 40 NOT USED.
- 41 NOT USED.
- 42 NOT USED.
- 43 NOT USED.
- 44 NOT USED.
- 45 NOT USED.
- 46 NOT USED.
- 47 NOT USED.
- 48 NOT USED.
- 49 NOT USED.
- 50 NOT USED.
- 51 NOT USED.
- 52 NOT USED.
- 53 PIPING IN PIPE CHASE.
- 54 NOT USED.
- 55 NOT USED.
- 56 NOT USED.
- 57 NOT USED.
- 58 LABORATORY UNIT WITH SERVICE OUTLETS --- PLUMBING CONNECTIONS REQUIRED: GAS AND LAB VACUUM.
- 59 LABORATORY UNIT WITH SERVICE OUTLETS --- PLUMBING CONNECTIONS REQUIRED: LAB VACUUM.
- 60 FUTURE FLAME HOOD. SEE ENLARGED PLANS ON SHEET 8.41.
- 61 FLAME HOOD (7-11) --- PLUMBING CONNECTIONS REQUIRED: COLD WATER, GAS, LAB VACUUM AND ACID WASTE DRAIN.
- 62 EMERGENCY EYE/FACE WASH UNIT (7-10).
- 63 APPROXIMATE LOCATION OF STAY OPEN BALL VALVE WITH FULL ROD (FIELD VERIFY).
- 64 ALARM BELL AND LIGHT FOR EMERGENCY SHOWER. PROVIDE LABEL INDICATING ROOM SERVED.
- 65 INSTALL PIPING IN WALL NEAR FLOOR.
- 66 EMERGENCY SHOWER (7-8). SEE DETAIL SHEET ON 8.42.
- 67 PIPING ABOVE CEILING.



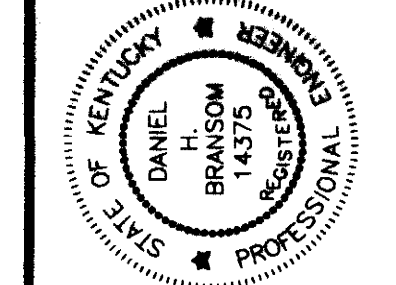
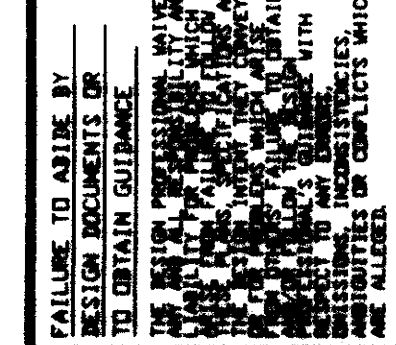
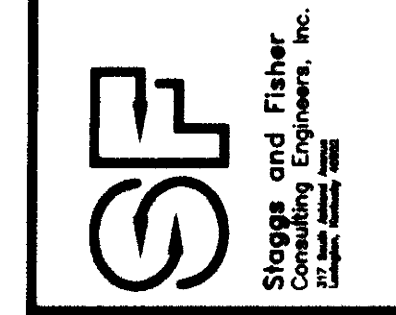
**PLUMBING PLAN - FOURTH FLOOR**  
 SCALE: 1/8" = 1'-0" (FINISHED FL. ELEV. 1034'-9")  
 NOTE: SEE ARCHITECTURAL PLANS FOR ALL ALTERNATES.

EXISTING  
 MEDICAL  
 SCIENCE  
 BUILDING



**KEY PLAN**

RECORD DRAWINGS DATE 8-5-96  
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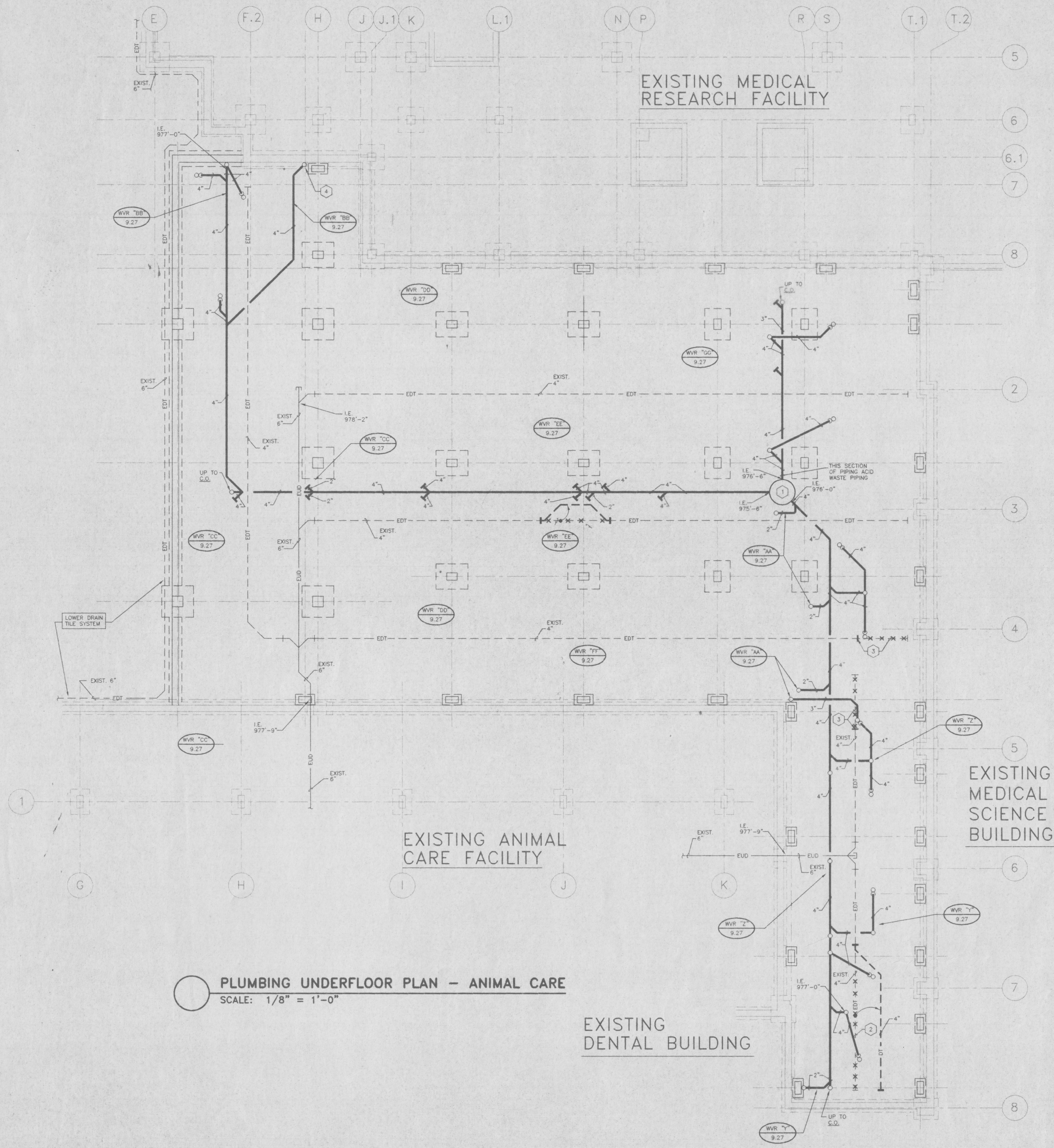


**PLUMBING PLAN - FOURTH FLOOR**  
**Medical Research Fit-up and Security System**  
**University of Kentucky**  
**Project No. 747.3**

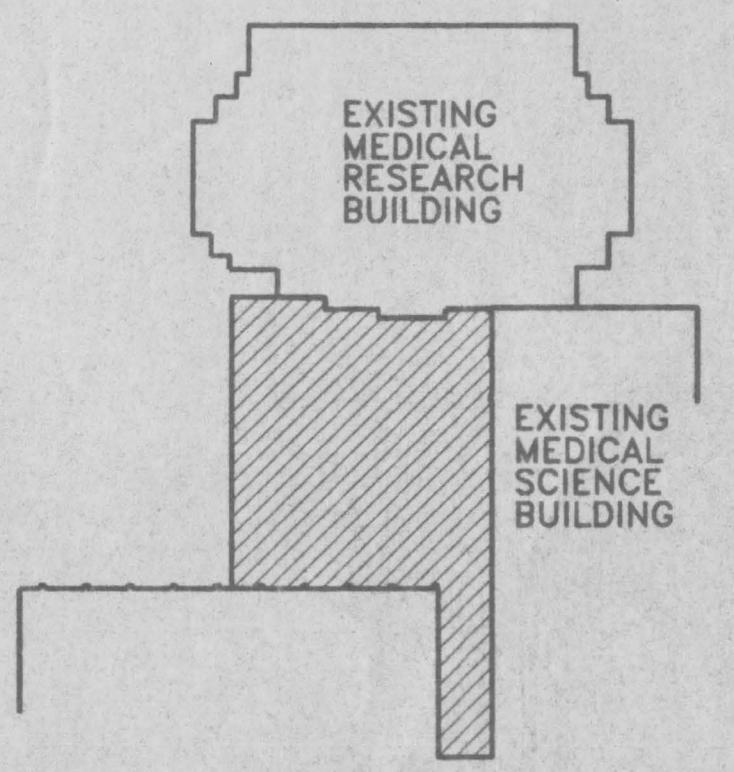
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DRAWN BY	DWB
CHECKED BY	DWB
REVISION	
DATE	
1	
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SHEET NUMBER	<b>9.11</b>
PROJECT NUMBER	



DRAWING: 25' CIRCULAR/RECTANGULAR/12' DIAMETER - 48' DIAMETER - 96' DIAMETER/192' DIAMETER - 17' 6"



PLUMBING UNDERFLOOR PLAN - ANIMAL CARE  
 SCALE: 1/8" = 1'-0"



KEY PLAN  
 N.T.S.

OFFICIAL BIDD DOCUMENT  
 FINAL DOCUMENTS

- GENERAL NOTES: PLUMBING
- 1 THE CONTRACTOR SHALL INSTALL FULL SIZE INDIRECT WASTES FROM EQUIPMENT REQUIRING SAME TO NEAREST FLOOR DRAIN, UNLESS OTHERWISE NOTED.
  - 2 LOCATIONS OF PIPING AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENT IN THE FIELD. DO NOT SCALE THE DRAWINGS.
  - 3 ALL OFFSETS IN PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.
  - 4 COORDINATE WITH MECHANICAL AND ELECTRICAL CONTRACTORS TO AVOID INTERFERENCES WITH PIPING, DUCTS AND CONDUIT.
  - 5 INSTALL PIPING AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
  - 6 SEAL AIRTIGHT AROUND ALL PIPING PENETRATIONS THROUGH WALLS, FLOOR AND ROOF.
  - 7 VERIFY EXACT LOCATIONS OF ALL PLUMBING ROUGH-INS WITH ARCHITECT.
  - 8 SLEEVES IN FLOORS SHALL EXTEND 2" ABOVE FINISHED FLOOR AND BE CAULKED FOR WATER-TIGHT INSTALLATION. SEE SPECIFICATIONS.
  - 9 SEE H.V.A.C. DRAWINGS FOR ADDITIONAL DETAILS APPLICABLE TO PLUMBING SYSTEM INSTALLATION.
  - 10 SET EQUIPMENT PRESSURE REGULATING VALVE OUTLET PRESSURE WHERE NOTED ON DRAWINGS AT EQUIPMENT MANUFACTURER'S REQUIREMENTS.
  - 11 SEE DRAWING 9.42 FOR FIXTURE ROUGH-IN SCHEDULE.

- CODED NOTES: SHEET 9.12
- 1 48" DIA. FIBERGLASS SEWAGE EJECTOR BASIN FOR DUPLEX SEWAGE EJECTOR PUMPS. SEE SANITARY PUMP DETAIL ON SHEET 9.42.
  - 2 REMOVE AND RELOCATE THIS SECTION OF EXISTING DRAIN TILE AS INDICATED TO INSTALL NEW SOIL OR WASTE PIPING.
  - 3 REMOVE EXISTING DRAIN TILE BACK TO POINT INDICATED.
  - 4 4" SOIL LINE UP.

**CMM**  
 CUMBERMAN MILLER WOODCOCK  
 ARCHITECTS ENGINEERS PLANNING INTERIORS LANDSCAPE ARCHITECTURE  
 308 S. BROWNWAY - 6060 294-9623  
 LEAMINGTON, KENTUCKY 40008

**SE**  
 Stoggs and Fisher, Inc.  
 Mechanical Engineers  
 1000 S. MAIN ST., SUITE 200  
 COLUMBIA, KY 40302

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STATE OF KENTUCKY  
 DANIEL BROWN  
 PROFESSIONAL ENGINEER  
 LICENSE NO. 14375  
 PROJECT NO. 1998-001

PLUMBING UNDERFLOOR PLAN - ANIMAL CARE  
 Medical Research Fit-up and Security System  
 University of Kentucky  
 Project No. 747.3

SHT.	PROJECT TITLE
1	DATE: MAY 1998
2	DRAWN BY: DWH
3	CHECKED BY: DMB
4	REVISED:
	DATE
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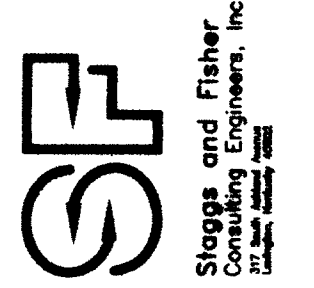
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PROJECT NUMBER

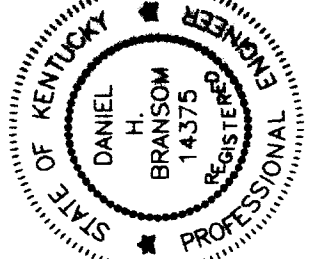


ROOM SCHEDULE

- MB-001 ANIMAL ROOM
- MB-003 ANIMAL ROOM
- MB-005 COORIDOR
- MB-007 ANIMAL ROOM
- MB-009 ANIMAL ROOM
- MB-011 ANIMAL ROOM
- MB-013 COORIDOR
- MB-014 MEN'S TOILET
- MB-014A TOILET
- MB-014B SHOWER
- MB-015 JANITOR
- MB-016 HOUSEKEEPING
- MB-017 VESTIBULE
- MB-017A ANIMAL ROOM
- MB-017B ANIMAL ROOM
- MB-018 CLINICAL ROOM
- MB-019 MECHANICAL ROOM
- MB-020 STORAGE
- MB-021 COORIDOR
- MB-022 OFFICE
- MB-023 WOMEN'S LOCKER
- MB-024 SHOWER
- MB-025A TOILET
- MB-025B TOILET
- MB-024 SURGERY #4
- MB-024B SURGERY #3
- MB-024C SURGERY
- MB-025 OFFICE
- MB-026 RECOVERY
- MB-026A RECOVERY
- MB-027 SURGERY #1
- MB-027B SURGERY #2
- MB-027C SCRUB
- MB-028 DECONTAMINATION
- MB-028A STERILE PROCESSING
- MB-028B RECOVERY
- MB-029 RECOVERY
- MB-030 EQUIP. STORAGE
- MB-031 COORIDOR
- MB-032 MECHANICAL

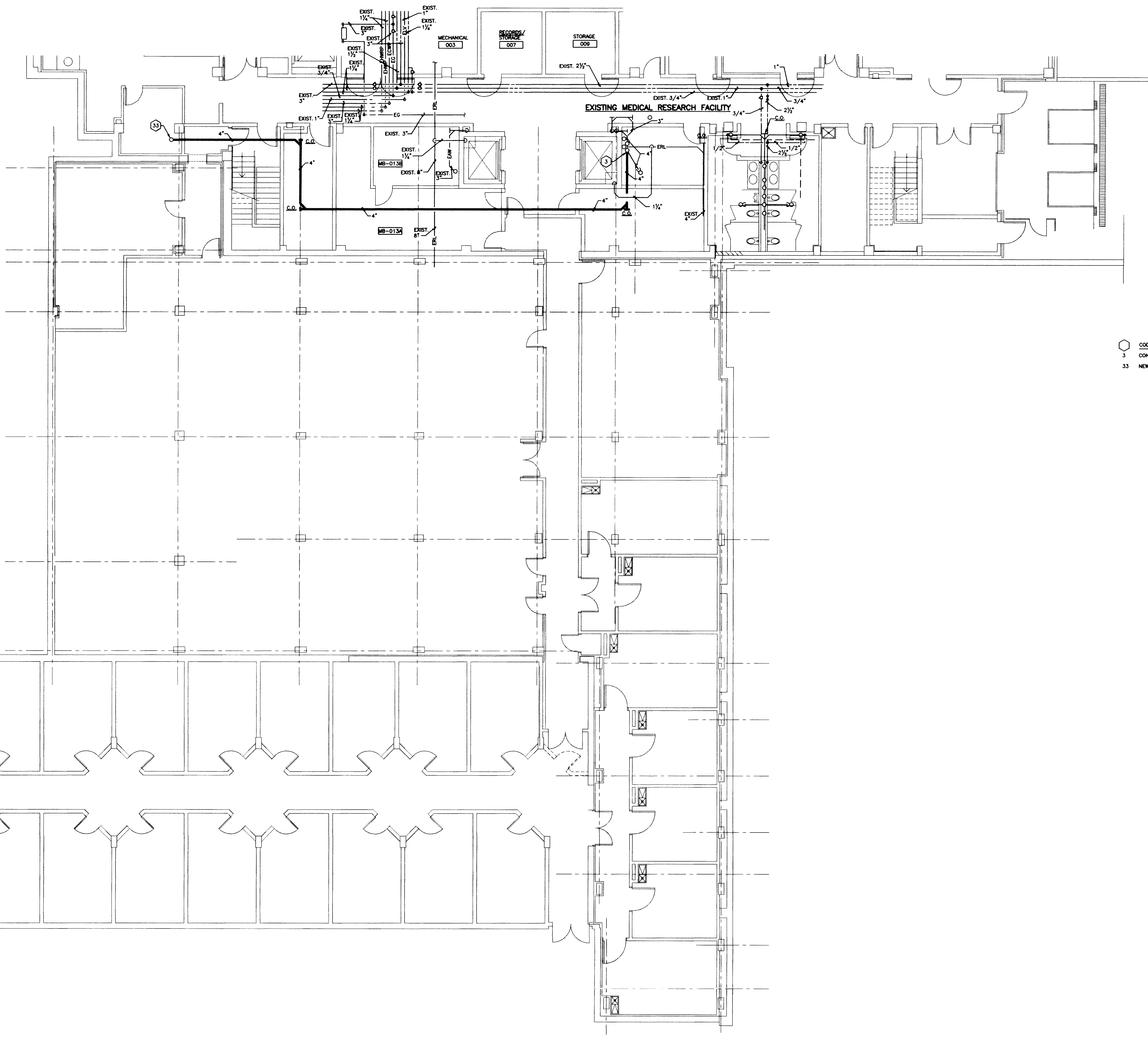


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TO OBTAIN DOCUMENT OR  
TO OBTAIN DOCUMENT OR



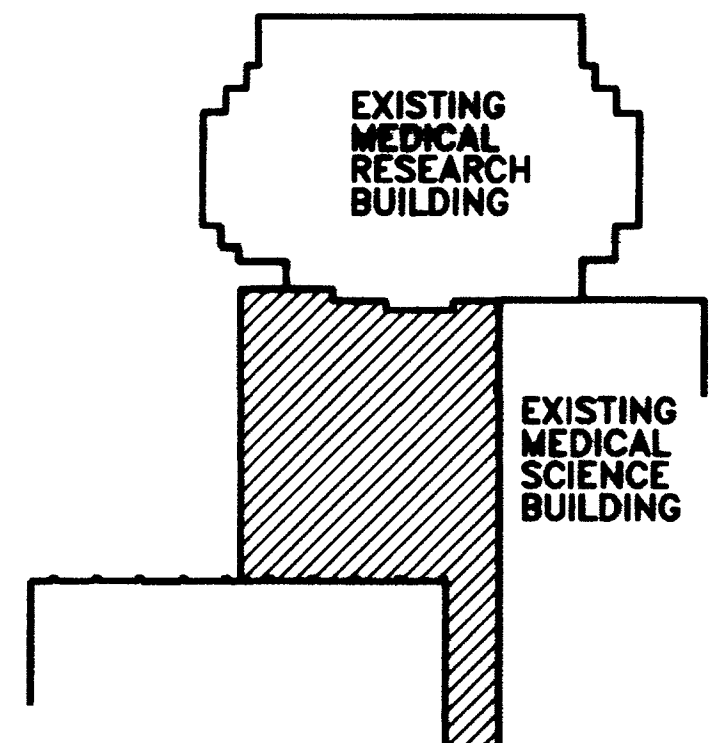
PLUMBING PLAN - ANIMAL CARE FLOOR

Medical Research Fit-up and Security System  
University of Kentucky  
Project No. 747.3



CODED NOTES: SHEET 9.13  
 3 CONNECT TO EXISTING 4" WASTE LINE AT BASE OF ELBOW AS REQUIRED.  
 33 NEW 4" SOIL LINE UP.

**PLUMBING PLAN - ANIMAL CARE FLOOR**  
 SCALE: 1/8" = 1'-0" (FINISHED FL. ELEV. 979'-0")



**KEY PLAN**  
N.T.S.

RECORD DRAWINGS DATE 8-5-96  
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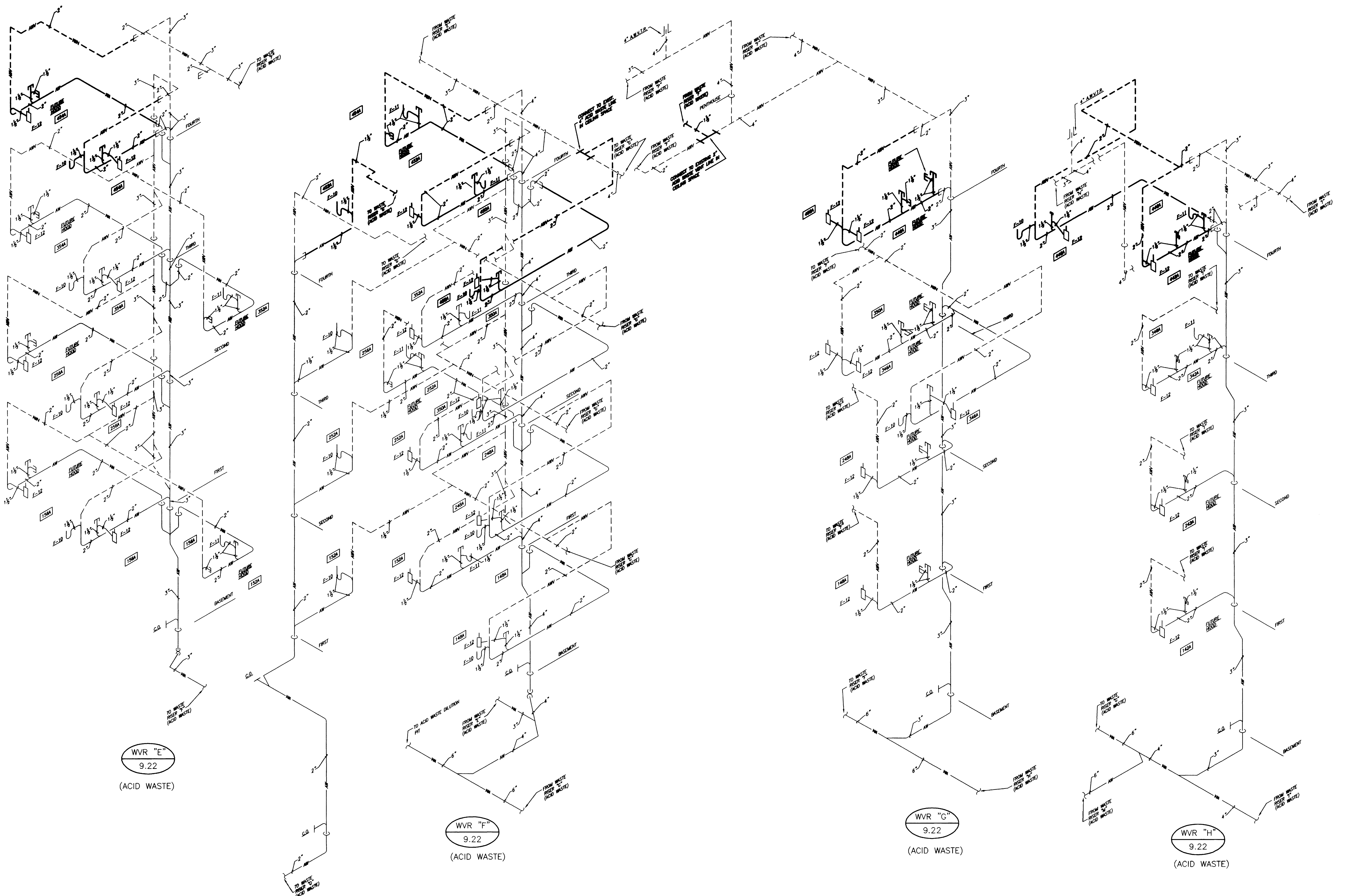
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DRAWN BY: DMH	
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REVISION: DATE	
SHEET NUMBER	
<b>9.13</b>	
PROJECT NUMBER	

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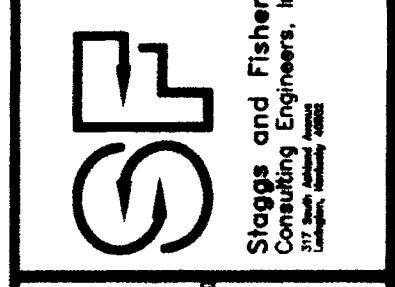
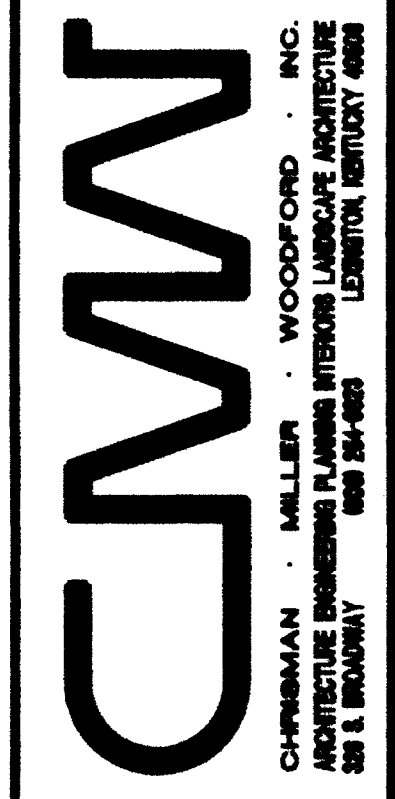




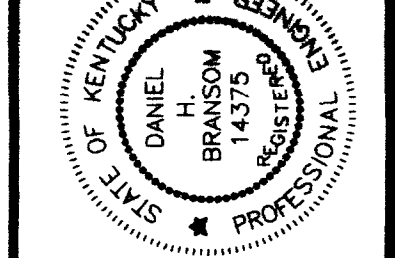




**SOIL, WASTE & VENT RISER DIAGRAMS**  
NO SCALE



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**PLUMBING RISERS**  
**Medical Research Fit-up and Security System**  
**University of Kentucky**  
**Project No. 747.3**

DATE	MAY 1996
DRAWN BY	DWH
CHECKED BY	DHS
REVISION	
DATE	

**SHEET NUMBER**  
**9.22**

**PROJECT NUMBER**

RECORD DRAWINGS DATE 8-5-96

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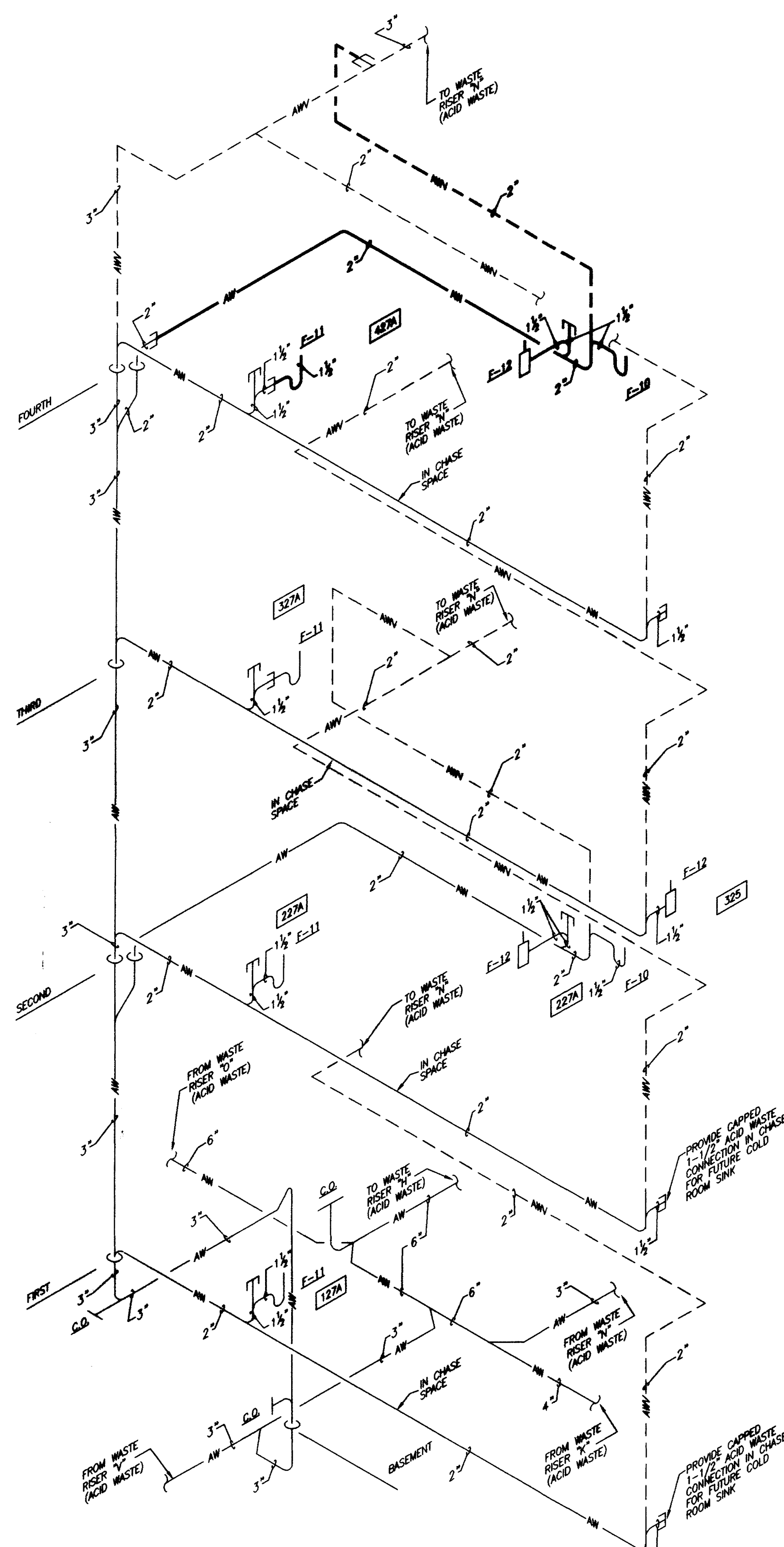
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SHEET 1 OF 1

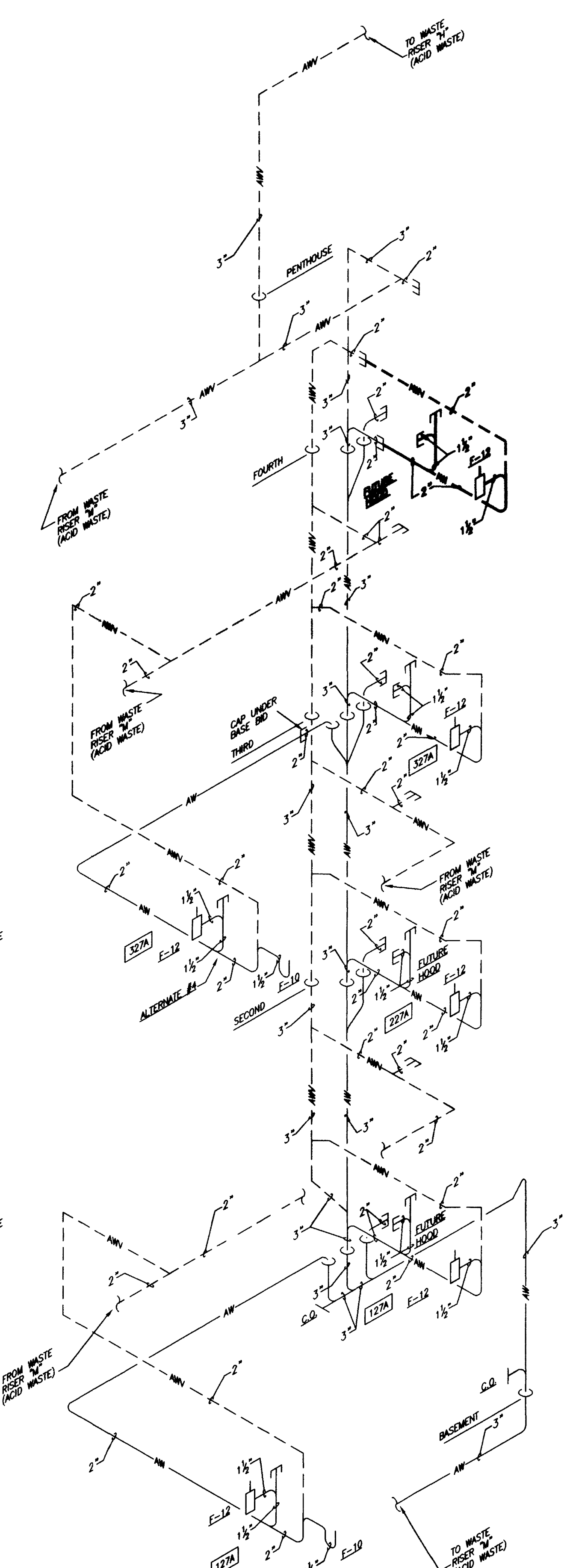




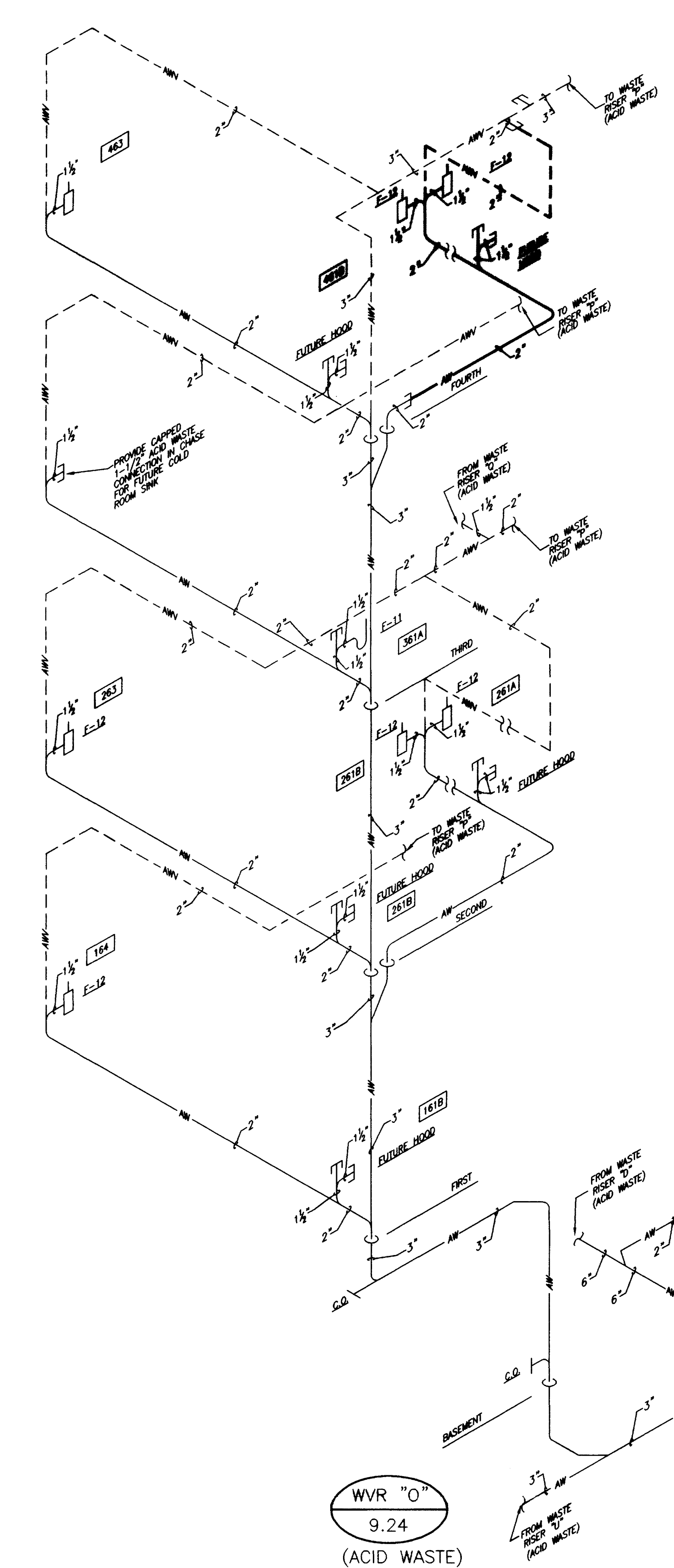




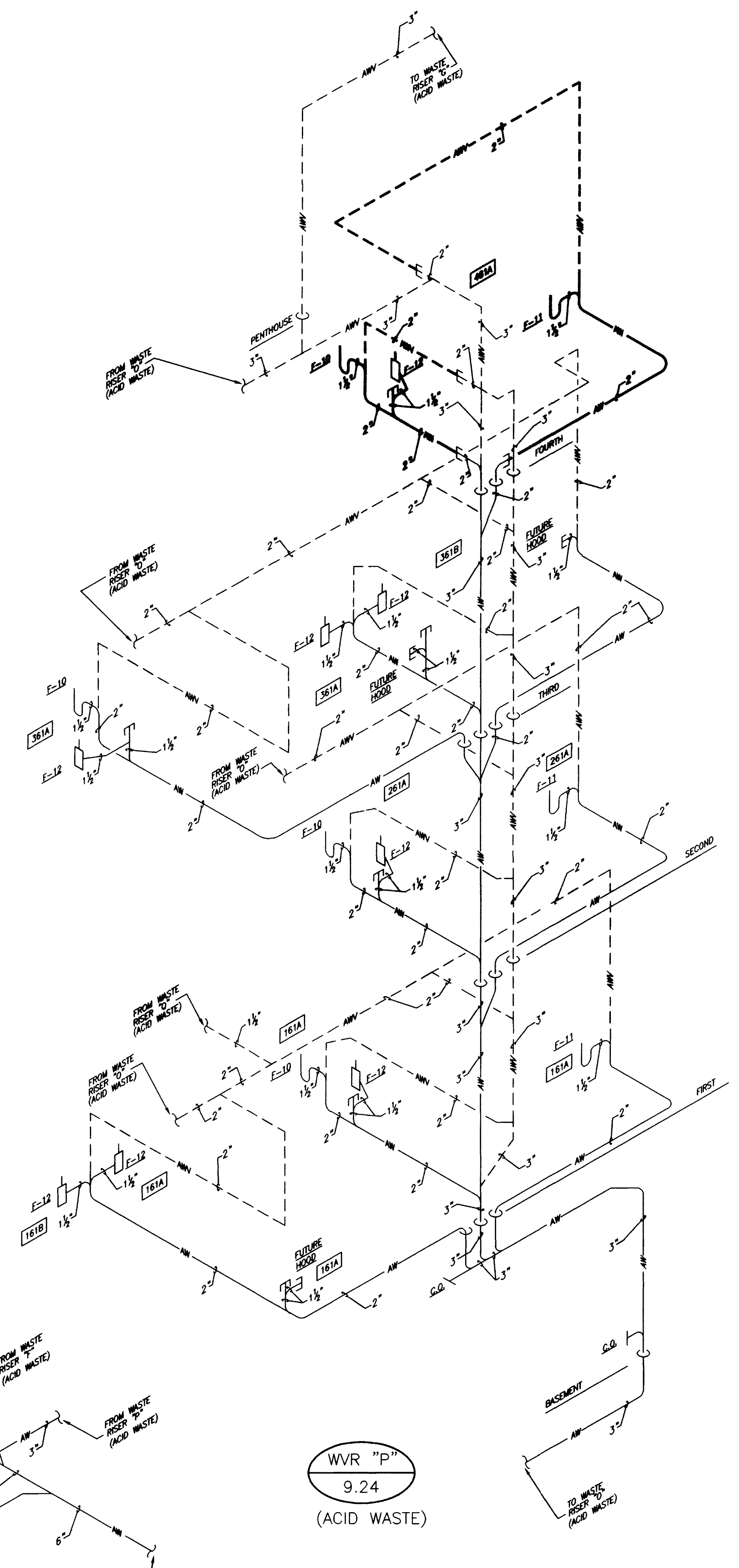
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9.24  
(ACID WASTE)



WVR "N"  
9.24  
(ACID WASTE)



WVR "O"  
9.24  
(ACID WASTE)



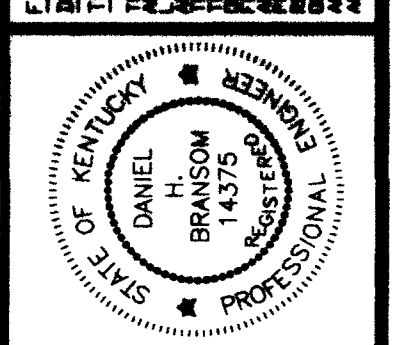
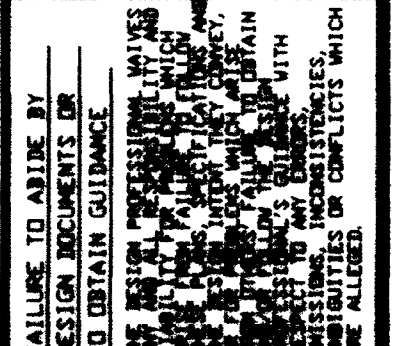
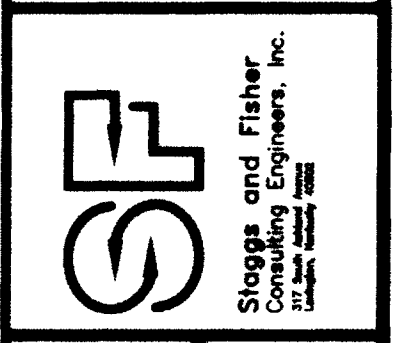
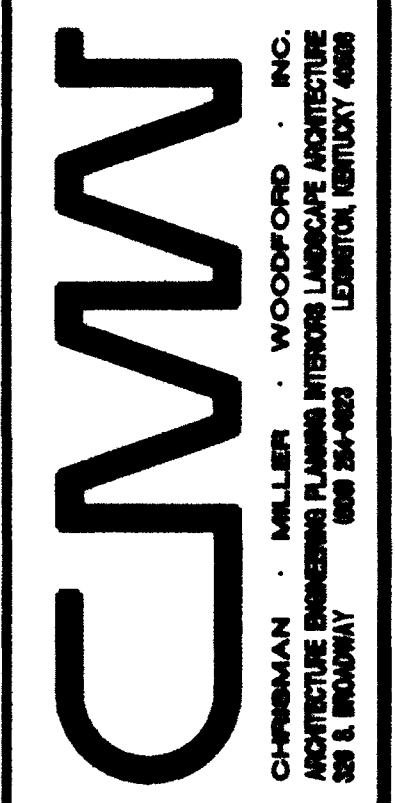
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9.24  
(ACID WASTE)

SOIL, WASTE & VENT RISER DIAGRAMS

NO SCALE

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University of Kentucky  
Project No. 747.3

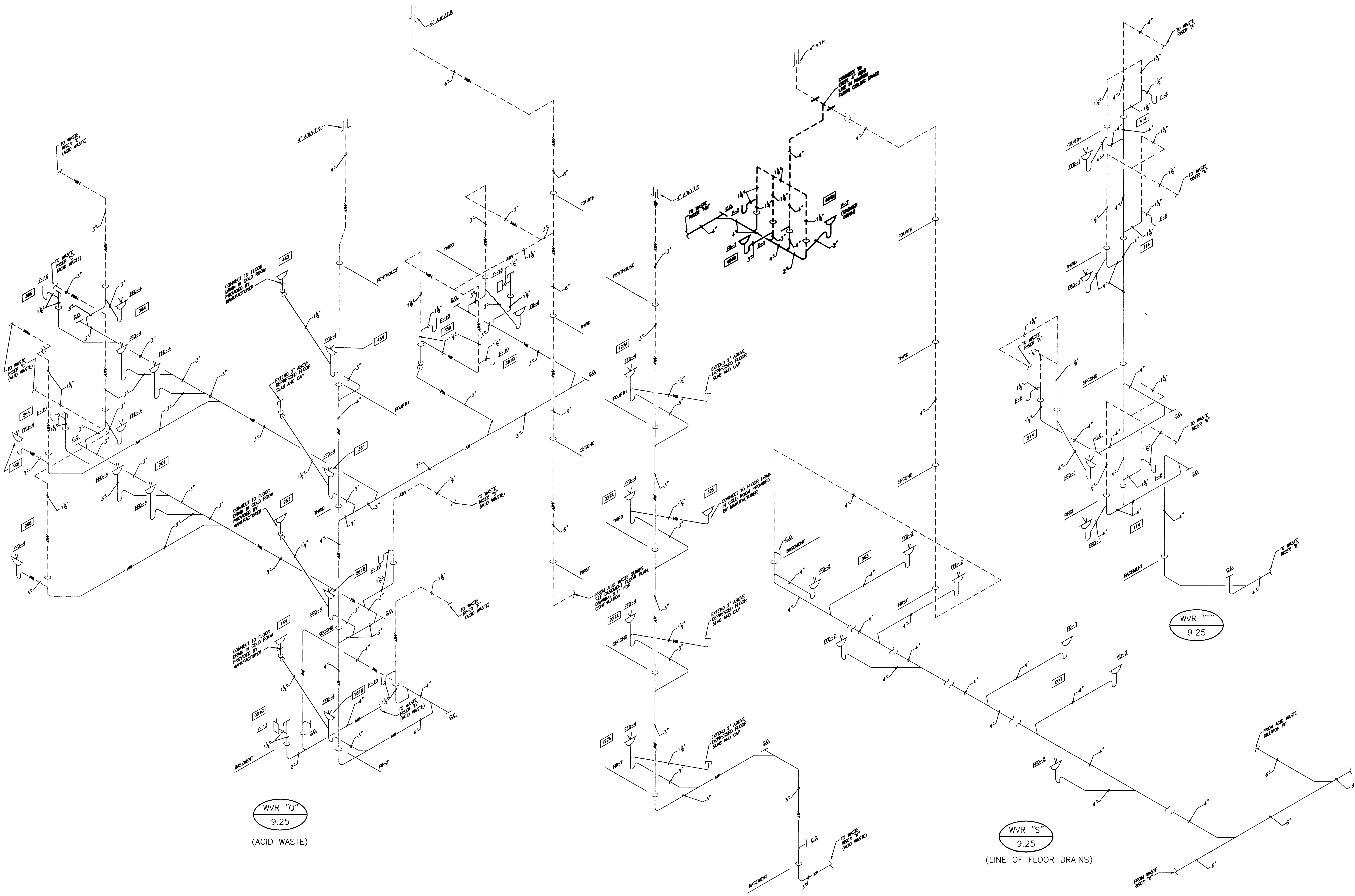
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CHECKED BY: DBB  
REVISION:  
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SHEET NUMBER  
9.24  
PROJECT NUMBER

FINAL DOCUMENTS

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WVR "Q" 9.25 (ACID WASTE)

WVR "R" 9.25 (ACID WASTE)

WVR "S" 9.25 (LINE OF FLOOR DRAINS)

WVR "T" 9.25

SOIL, WASTE & VENT RISER DIAGRAMS  
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DANIEL H. BRIDGES  
REGISTERED PROFESSIONAL ENGINEER

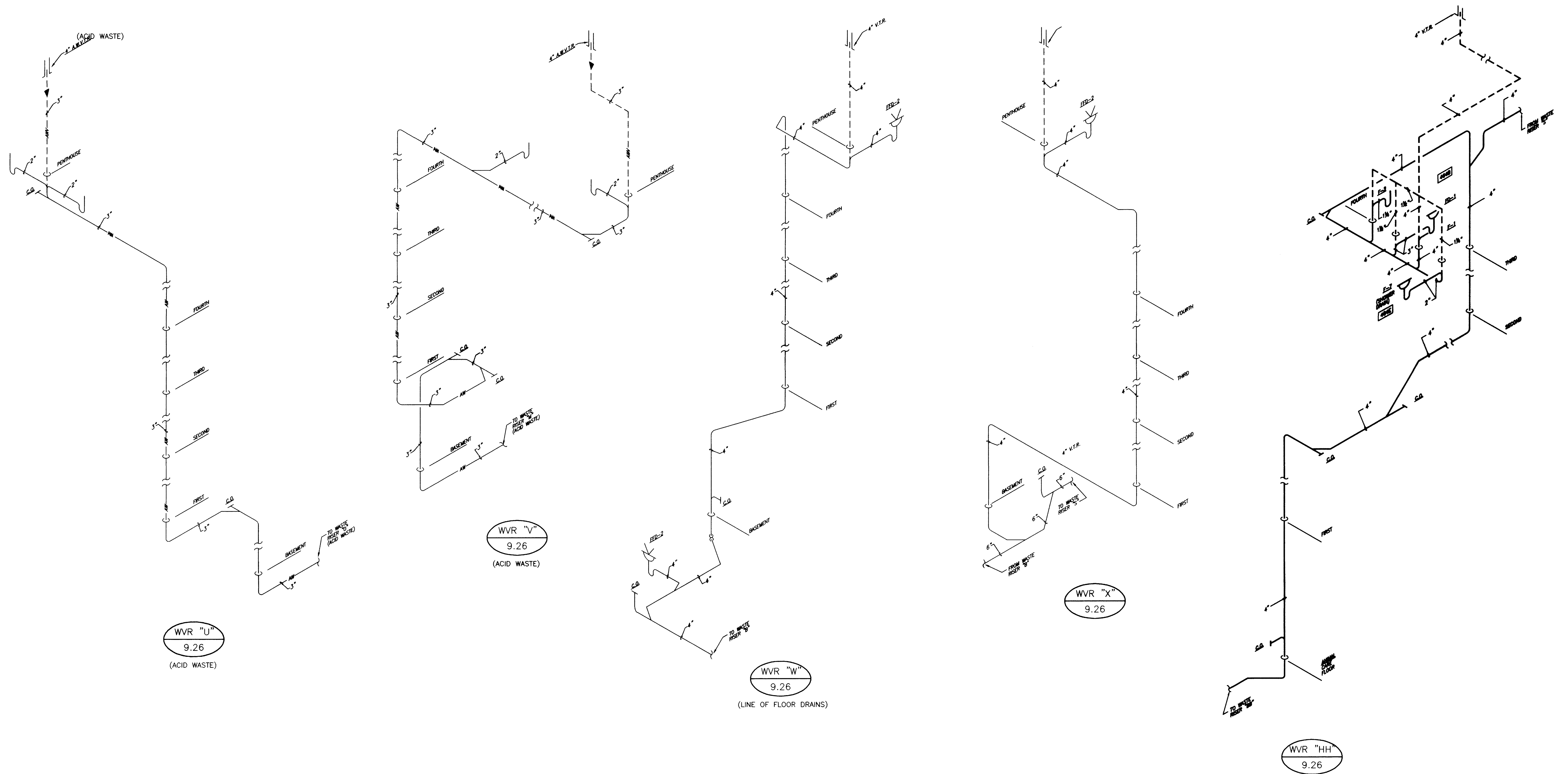
**PLUMBING RISERS**  
**Medical Research Fit-up and Security System**  
**University of Kentucky**  
**Project No. 747.3**

BHT. PROJECT TITLE  
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DRAWN BY - DWH  
CHECKED BY - DFB  
REVISED -  
DATE 1  
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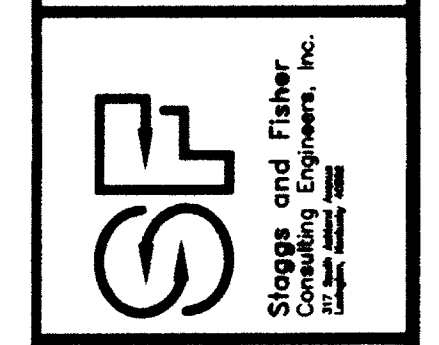
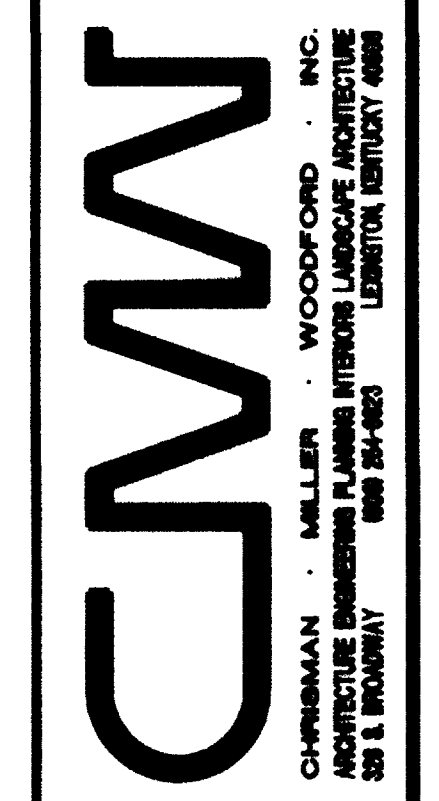
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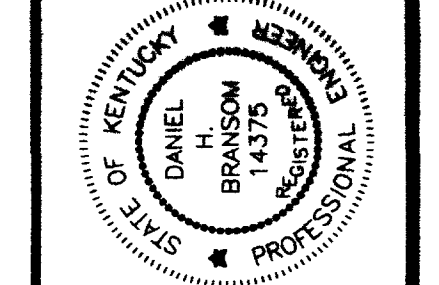




SOIL, WASTE & VENT RISER DIAGRAMS  
NO SCALE



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**PLUMBING RISERS**

**Medical Research Fit-up and Security System**  
**University of Kentucky**  
**Project No. 747.3**

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DATE: \_\_\_\_\_

RECORD DRAWINGS DATE 8-5-96

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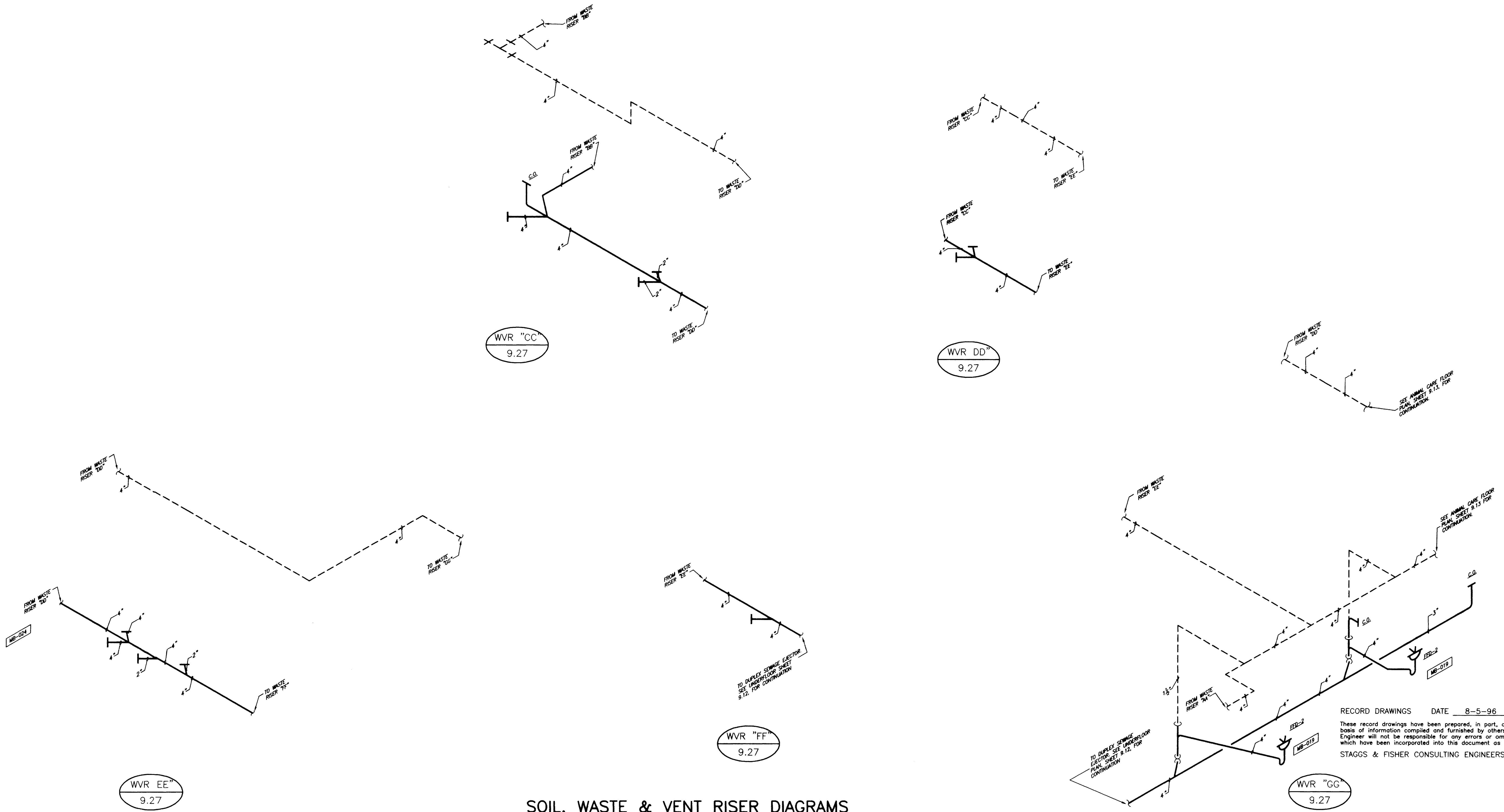
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SHEET NUMBER  
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PROJECT NUMBER

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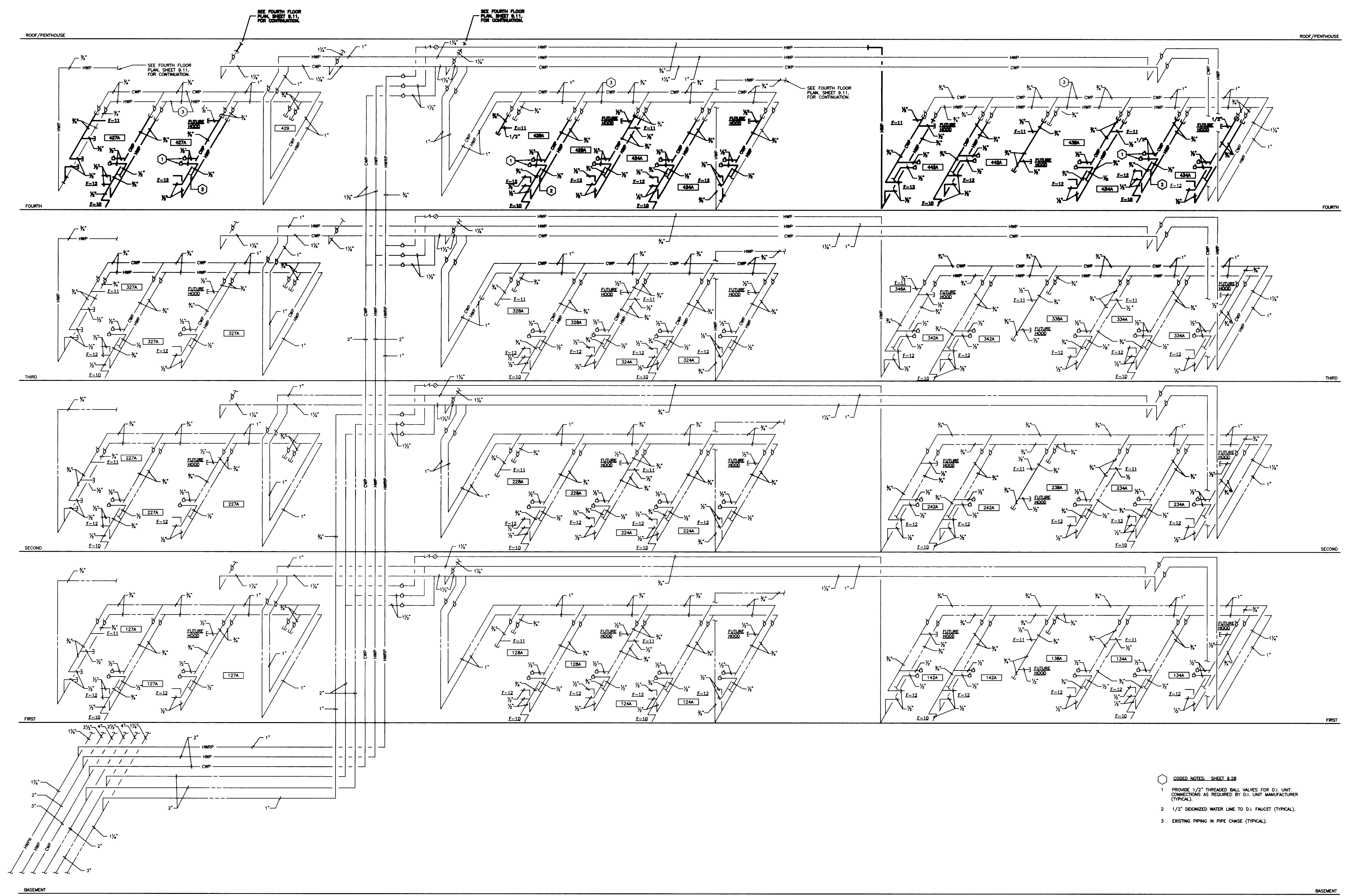
**SOIL, WASTE & VENT RISER DIAGRAMS**

NO SCALE

RECORD DRAWINGS DATE 8-5-96  
These record drawings have been prepared, in part, on the basis of information compiled and furnished by others. The Engineer will not be responsible for any errors or omissions which have been incorporated into this document as a result.  
STAGGS & FISHER CONSULTING ENGINEERS, INC.

DRAWING= S:\DWG\LUMCO\PLUM\9-27.DWG SCALE= 1/8"=1'-0" DATE= 08/09/96 AT 14:18





- CODED NOTES, SHEET 9.28
1. PROVIDE 1/2" THREADED BALL VALVES FOR D.I. UNIT CONNECTIONS AS REQUIRED BY D.I. UNIT MANUFACTURER (TYPICAL).
  2. 1/2" DEIONIZED WATER LINE TO D.I. FAUCET (TYPICAL).
  3. EXISTING PIPING IN PIPE CHASE (TYPICAL).

HCR "A"  
9.28

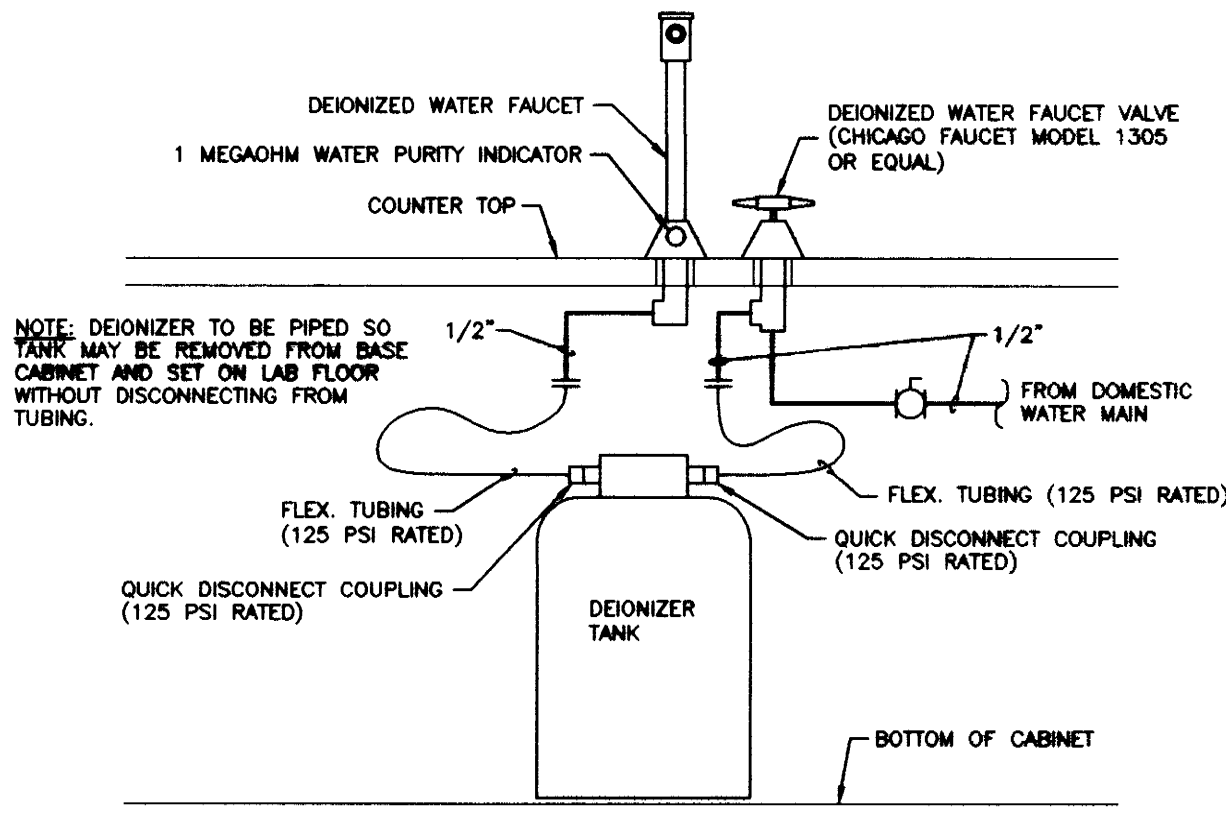
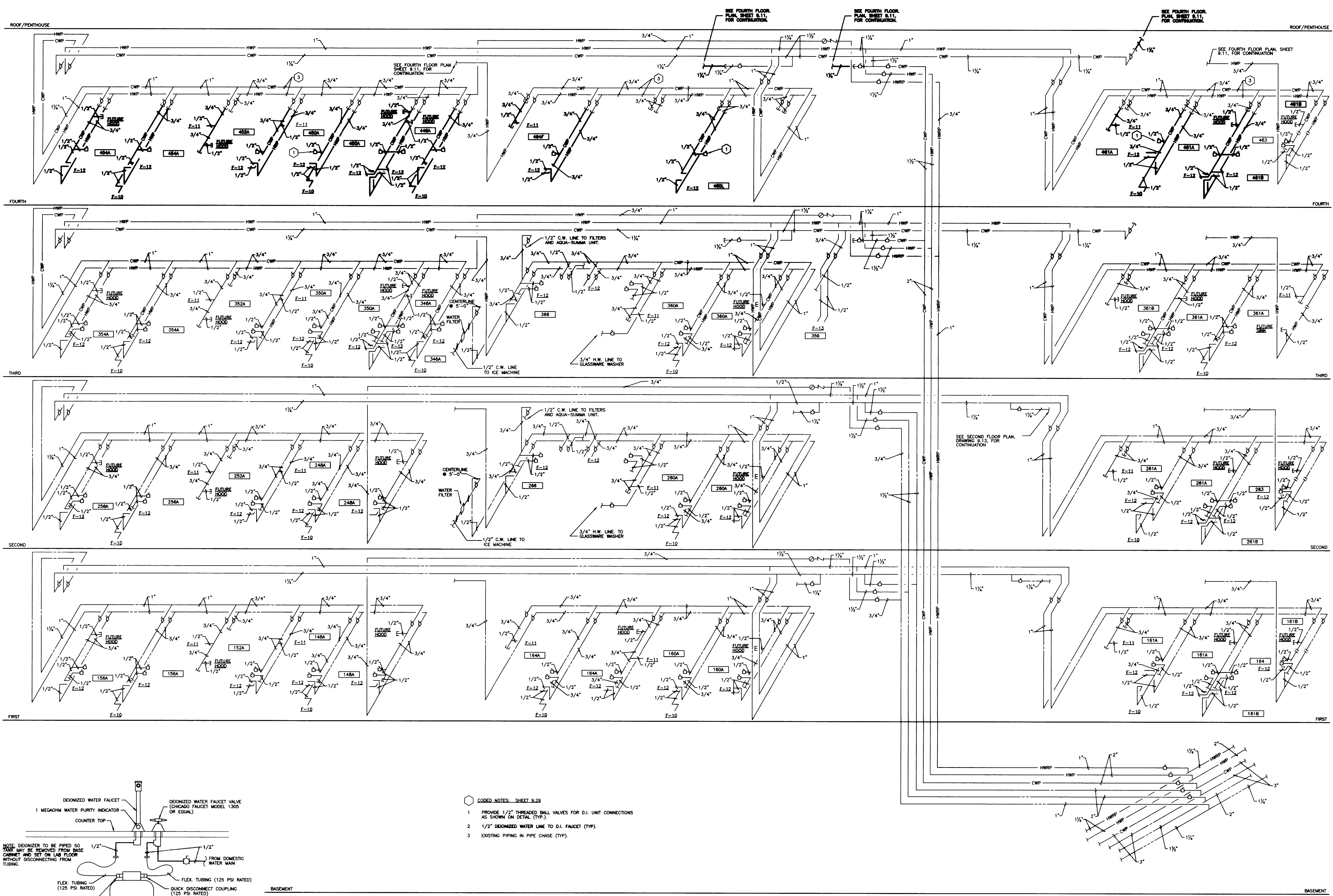
DOMESTIC HOT AND COLD WATER RISER DIAGRAM  
NO SCALE

RECORD DRAWINGS DATE 8-5-96  
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STAGGS & FISHER CONSULTING ENGINEERS, INC.

PLUMBING RISERS  
Medical Research Fit-up and Security System  
University of Kentucky  
Project No. 747.3

SHT. PROJECT TITLE  
DATE: MAY 1996  
DRAWN BY: DWH  
CHECKED BY: DFB  
REVIEWED:  
DATE: 1  
2  
3  
4  
SHEET NUMBER  
9.28  
PROJECT NUMBER



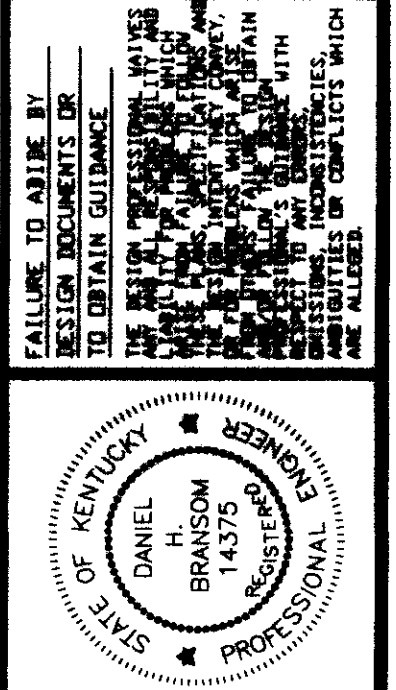
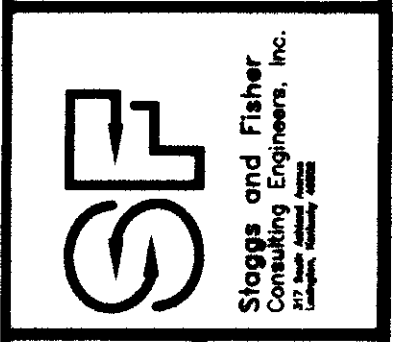
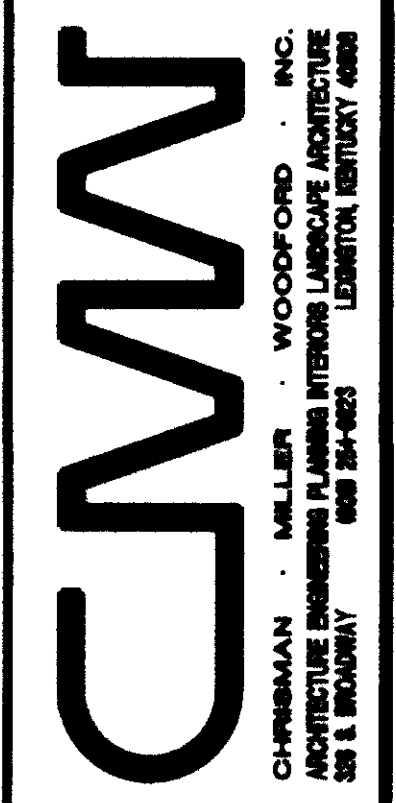


- CODED NOTES: SHEET 9.29
1. PROVIDE 1/2" THREADED BALL VALVES FOR D.I. UNIT CONNECTIONS AS SHOWN ON DETAIL (TYP.).
  2. 1/2" DEIONIZED WATER LINE TO D.I. FAUCET (TYP.).
  3. EXISTING PIPING IN PIPE CHASE (TYP.).

HCR "B"  
9.29

DOMESTIC HOT & COLD WATER RISER DIAGRAM  
NO SCALE

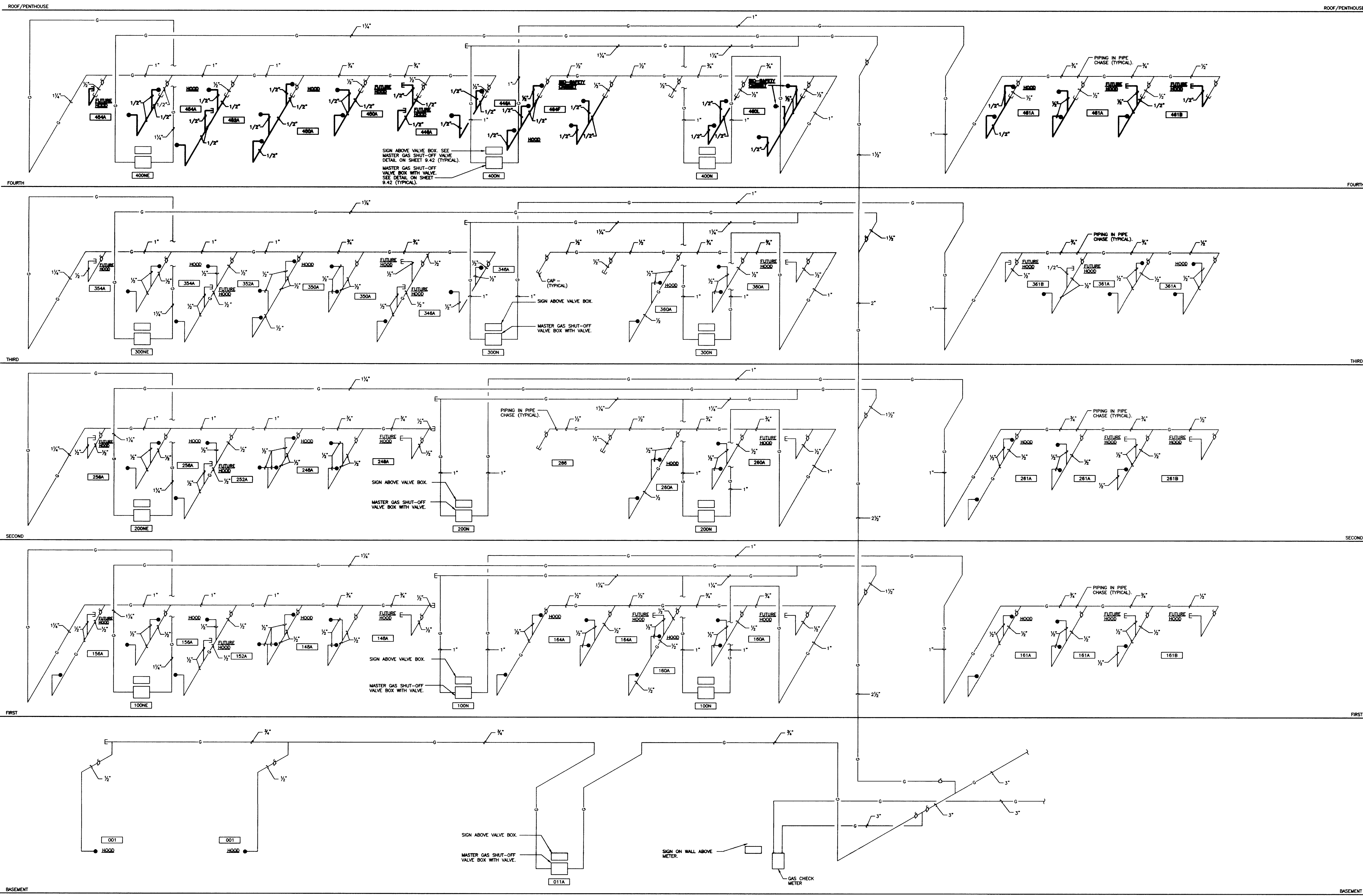
RECORD DRAWINGS DATE 8-5-96  
These record drawings have been prepared, in part, on the basis of information compiled and furnished by others. The Engineer will not be responsible for any errors or omissions which have been incorporated into this document as a result.  
STAGGS & FISHER CONSULTING ENGINEERS, INC.



PLUMBING RISERS  
Medical Research Fit-up and Security System  
University of Kentucky  
Project No. 747.3

DATE	MAY 1988
DRAWN BY	DWH
CHECKED BY	DBB
REVIEWED	
DATE	
SHEET NUMBER	9.29
PROJECT NUMBER	





**GAS PIPING SCHEMATIC RISER DIAGRAM "A"**  
 NO SCALE

**GAS PIPING SCHEMATIC RISER DIAGRAM "A"**  
**Medical Research Fit-up and Security System**  
**University of Kentucky**  
**Project No. 747.3**

DATE	MAY 1996
DRAWN BY	DWB
CHECKED BY	DBB
REVISION	
DATE	
NO.	
BY	
DATE	
NO.	
BY	
DATE	
NO.	
BY	
DATE	
NO.	
BY	

RECORD DRAWINGS DATE 8-5-96

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STAGGS & FISHER CONSULTING ENGINEERS, INC.

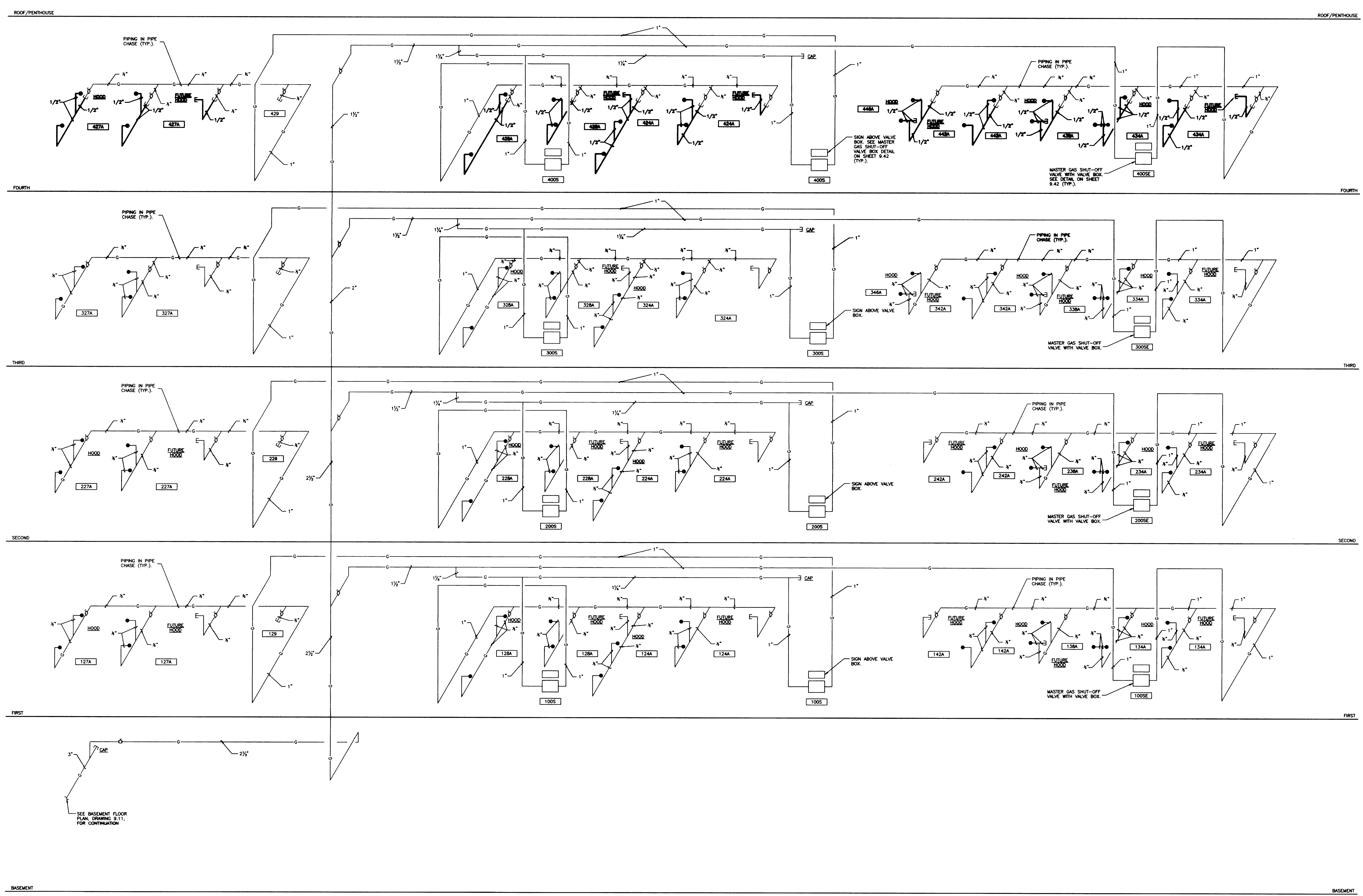
**FINAL DOCUMENTS**

**9.31**

PROJECT NUMBER

DRAWING - 25 (M) (U) (C) (V) (L) (W) (S) - 31 - DIMSCALE - 1/8" = 1'-0" DATE 08/09/99 AT 14:24



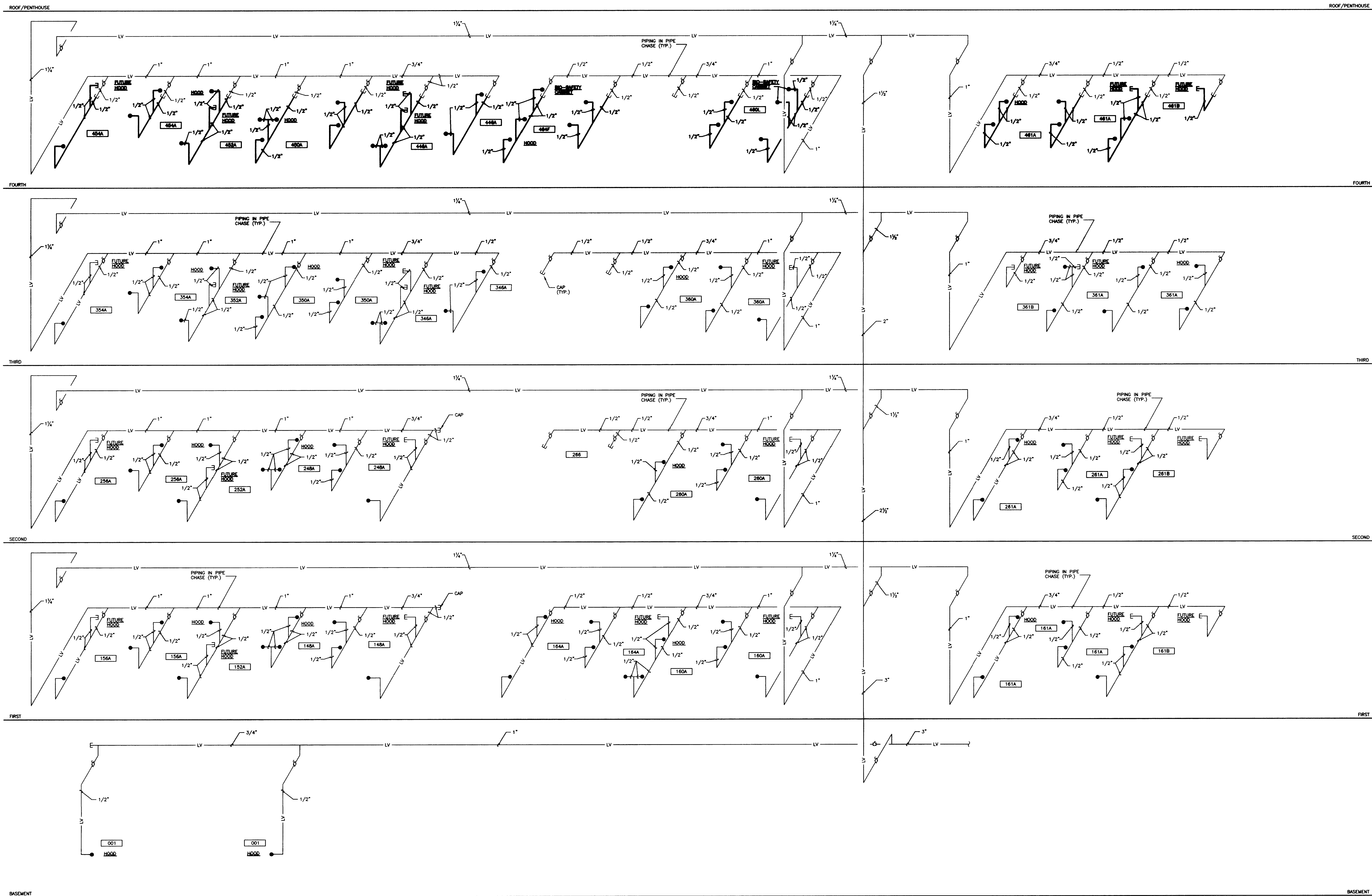


**GAS PIPING SCHEMATIC RISER DIAGRAM "B"**  
NO SCALE

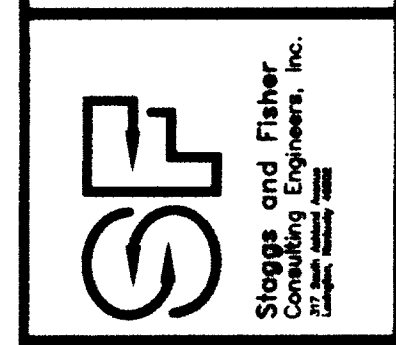
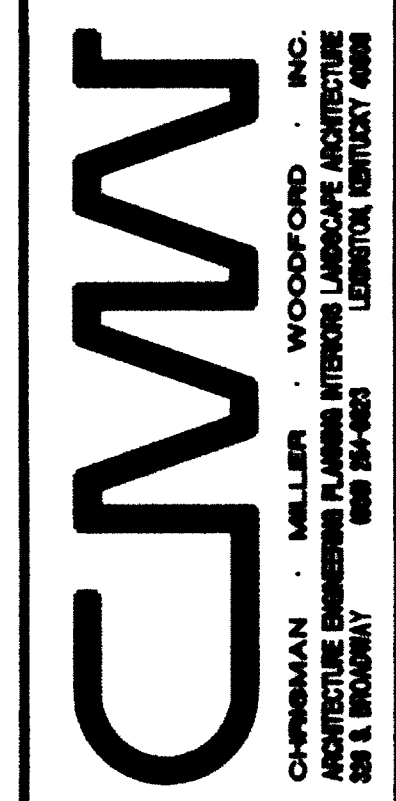
RECORD DRAWINGS DATE 8-5-96  
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STAGGS & FISHER CONSULTING ENGINEERS, INC.

DATE: MAY 96  
DRAWN BY: DWM  
CHECKED BY: DSB  
REVISED:  
DATE: 1  
SHEET NUMBER  
**9.32**  
PROJECT NUMBER

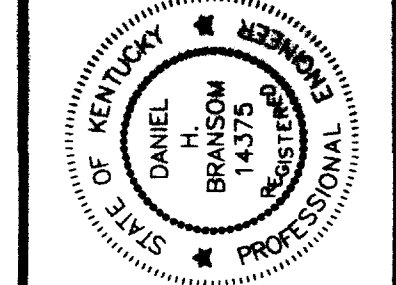




LABORATORY VACUUM PIPING SCHEMATIC RISER DIAGRAM "A"  
NO SCALE



DESIGNED BY: DANIEL H. BRIDGMAN, P.E. REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF KENTUCKY, LICENSE NO. 14375. DRAWN BY: [Name]. CHECKED BY: [Name]. DATE: [Date].



LABORATORY VACUUM PIPING SCHEMATIC RISER DIAGRAM "A"  
Medical Research Fit-up and Security System  
University of Kentucky  
Project No. 747.3

SHT.	PROJECT TITLE
DATE	MAY 2006
DRAWN BY	DWH
CHECKED BY	DWB
REVISION	
DATE	
1	
2	
3	
4	
SHEET NUMBER	9.33
PROJECT NUMBER	

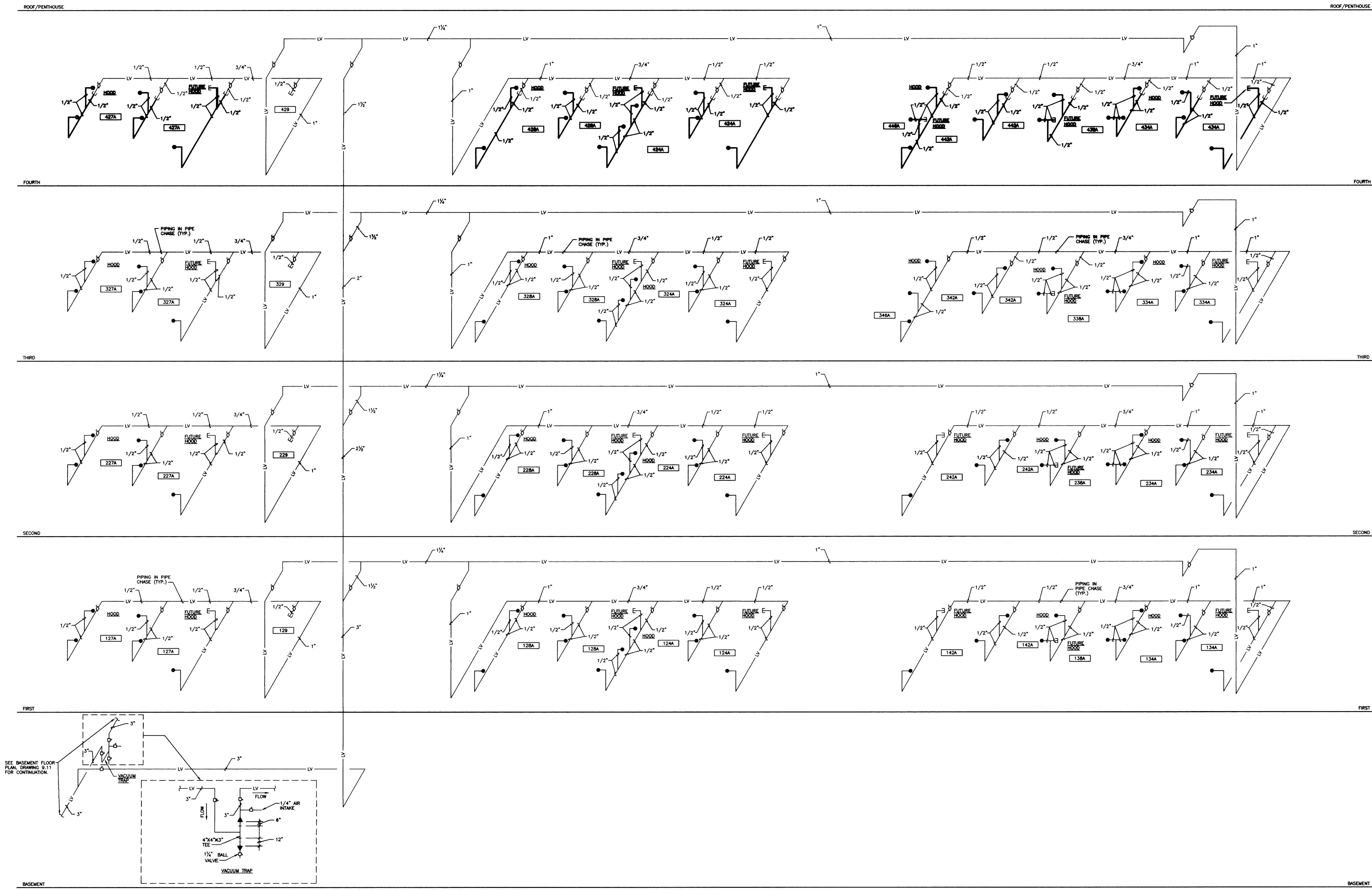
RECORD DRAWINGS DATE 8-5-96

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STAGGS & FISHER CONSULTING ENGINEERS, INC.

FINAL DOCUMENTS





LABORATORY VACUUM PIPING SCHEMATIC RISER DIAGRAM "B"  
 NO SCALE

RECORD DRAWINGS DATE 8-5-96

These record drawings have been prepared, in part, on the basis of information compiled and furnished by others. The Engineer will not be responsible for any errors or omissions which have been incorporated into this document as a result.

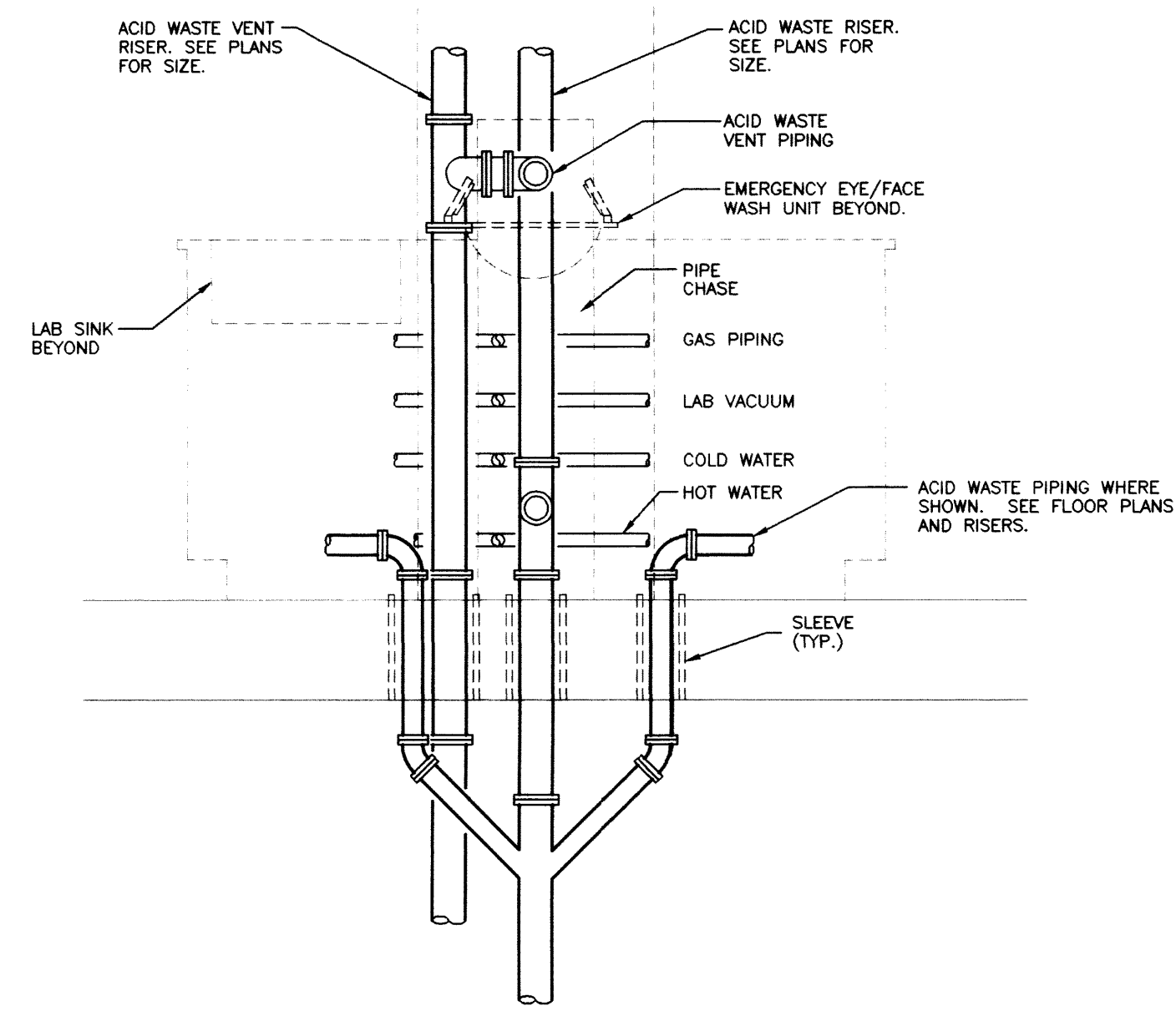
STAGGS & FISHER CONSULTING ENGINEERS, INC.

LABORATORY VACUUM PIPING SCHEMATIC RISER DIAGRAM "B"  
 Medical Research Fit-up and Security System  
 University of Kentucky  
 Project No. 747.3

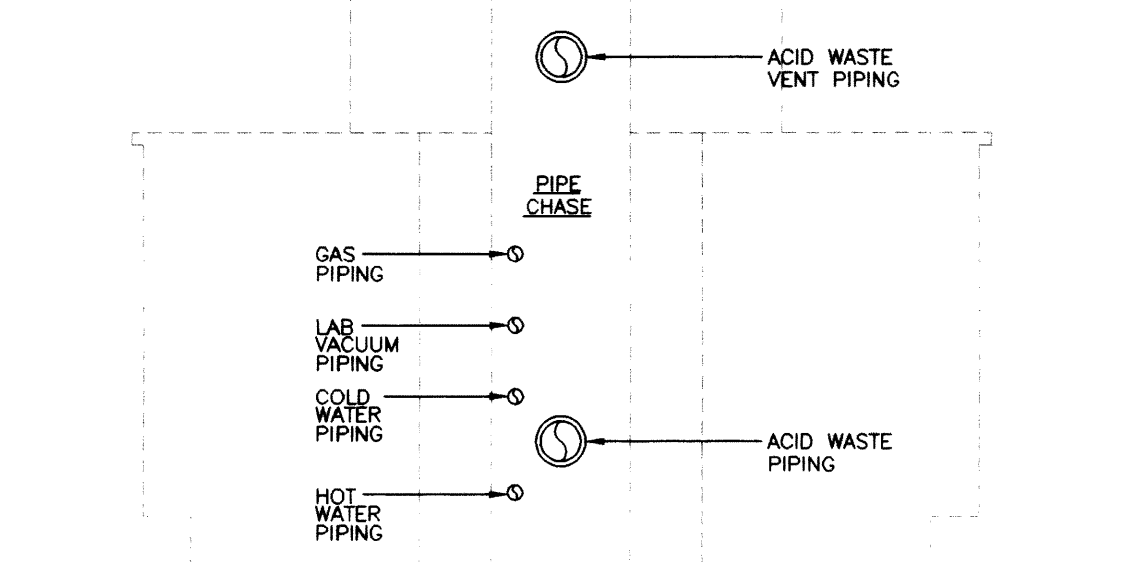
DATE: MAY 1996  
 DRAWN BY: DMH  
 CHECKED BY: DMB  
 REVISIONS:  
 DATE: \_\_\_\_\_  
 1  
 2  
 3

SHEET NUMBER  
**9.34**  
 PROJECT NUMBER

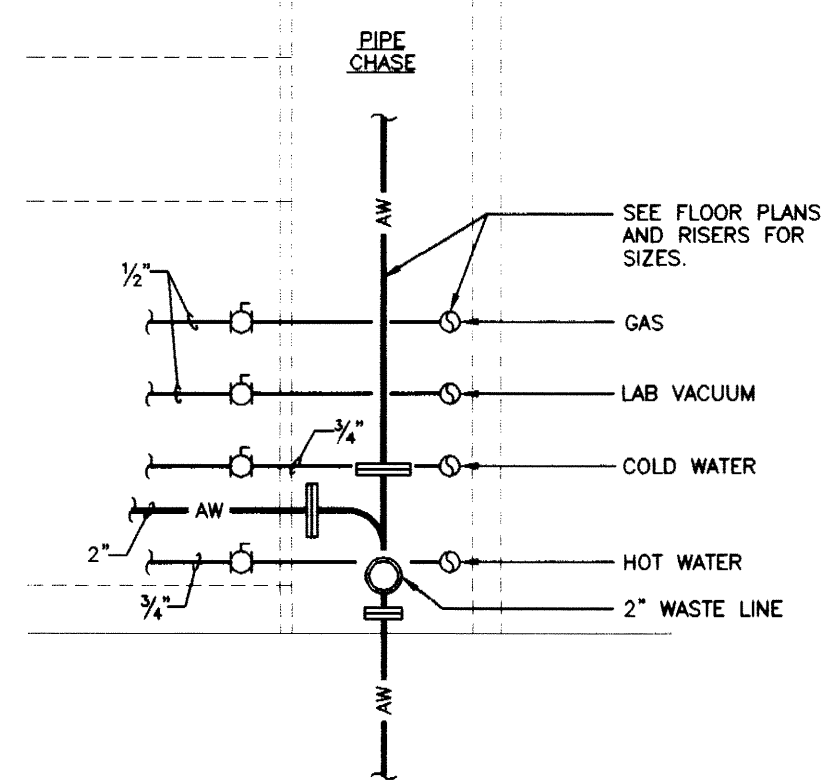




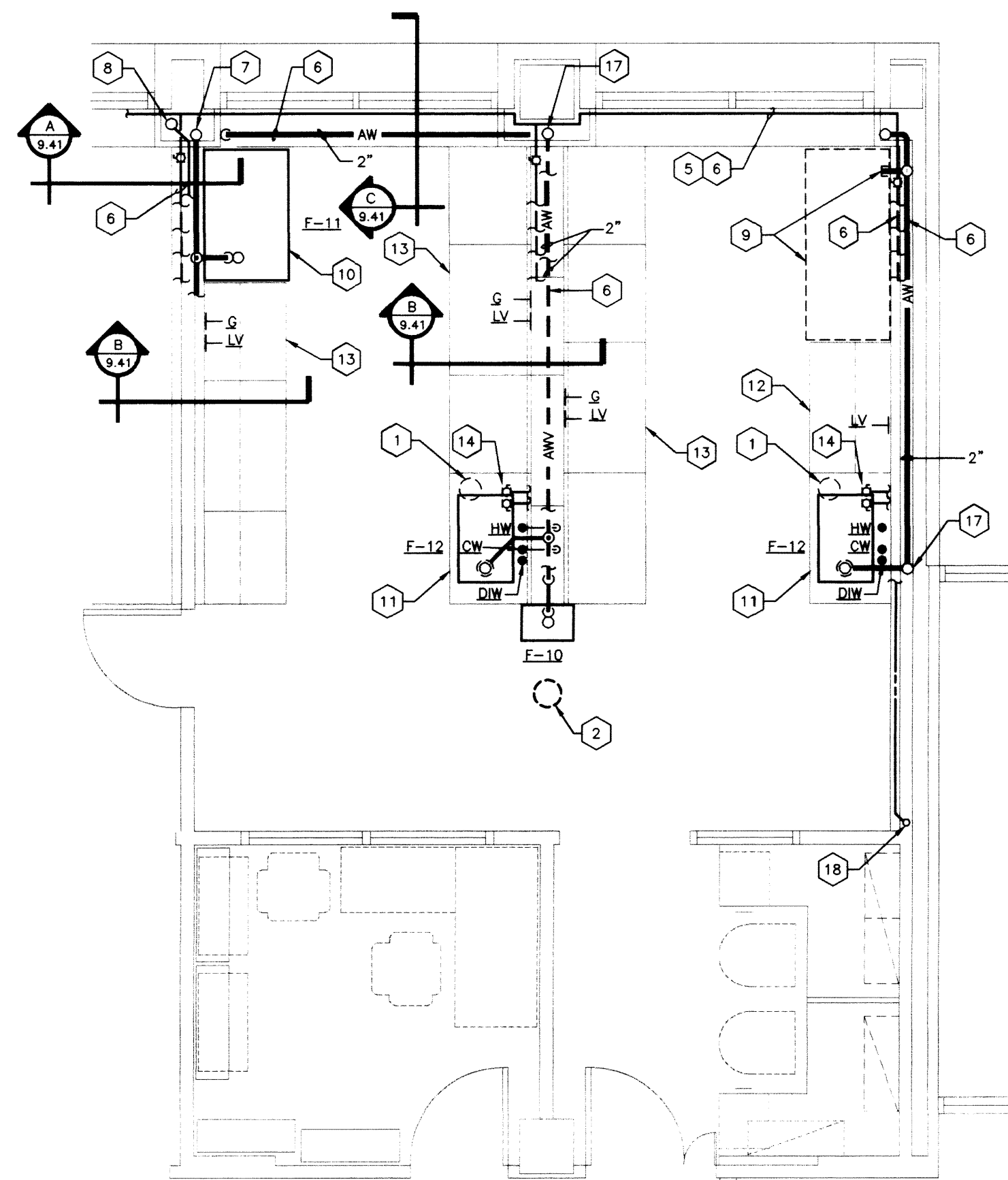
SECTION A  
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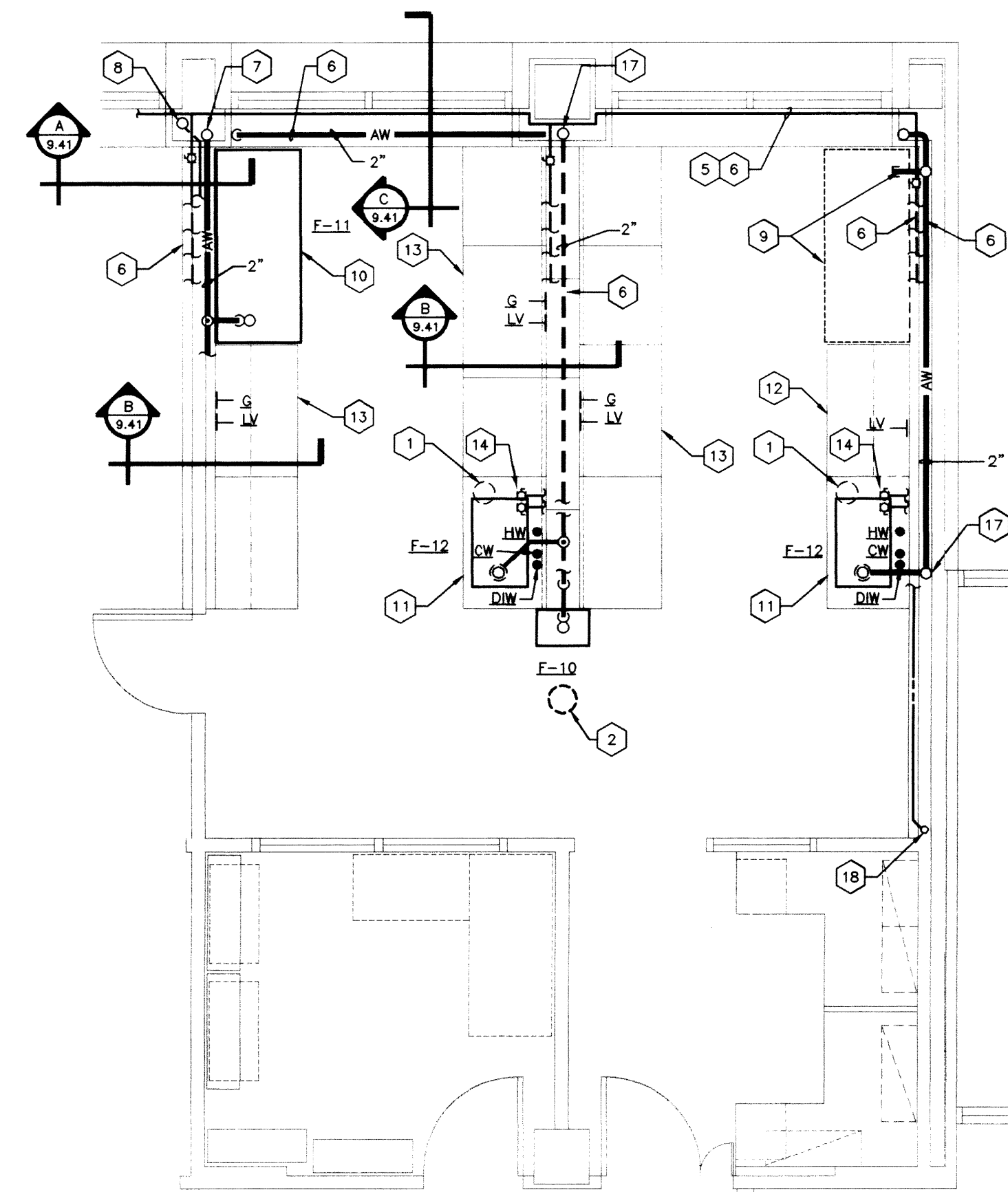
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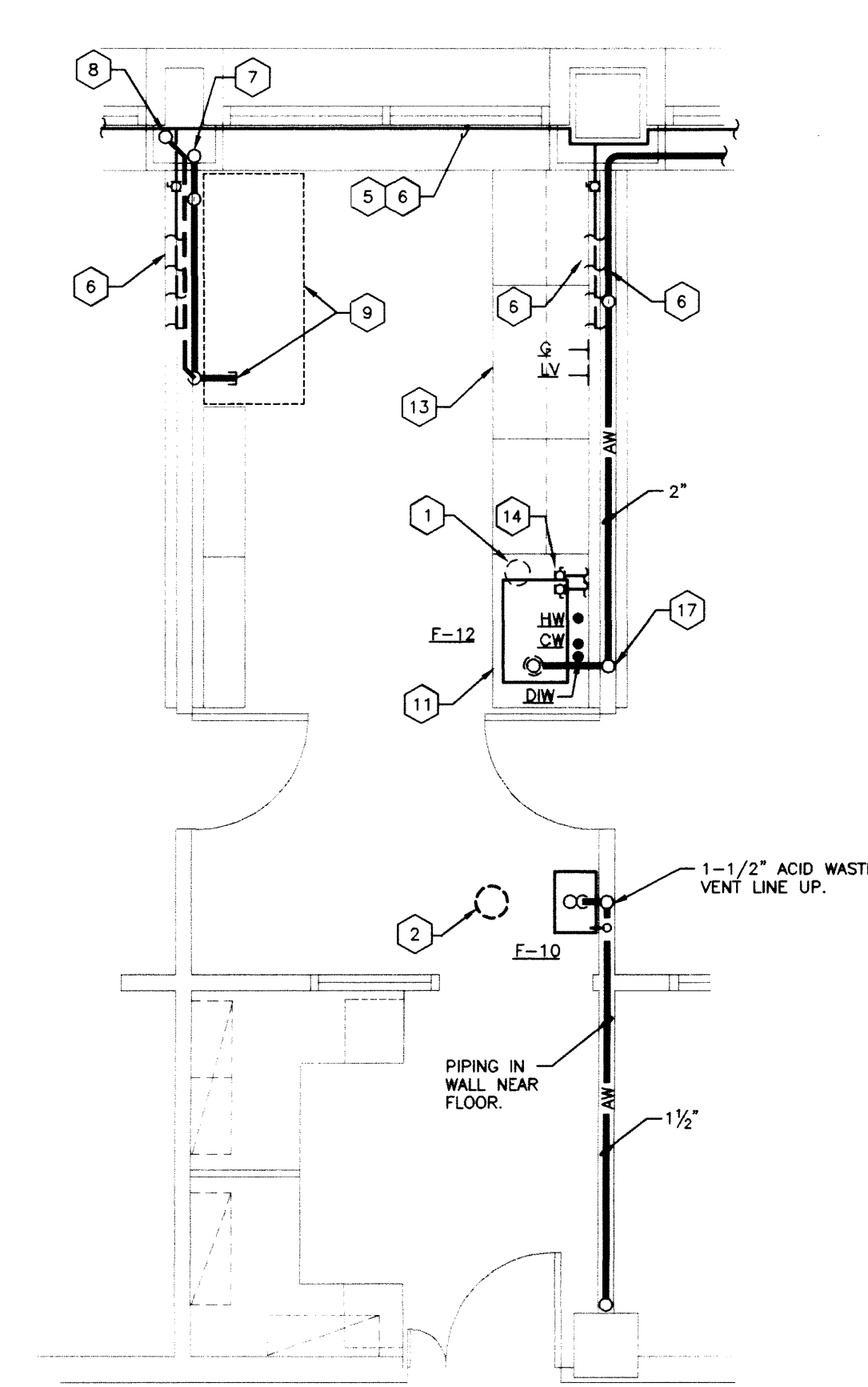
SECTION C  
SCALE: 3/4" = 1'-0"



ENLARGED PLAN -  
LABS 461A, 424A, 427A, 428A & 434A  
LAB 442A & 446A (OPP. HAND)  
SCALE: 1/4" = 1'-0"



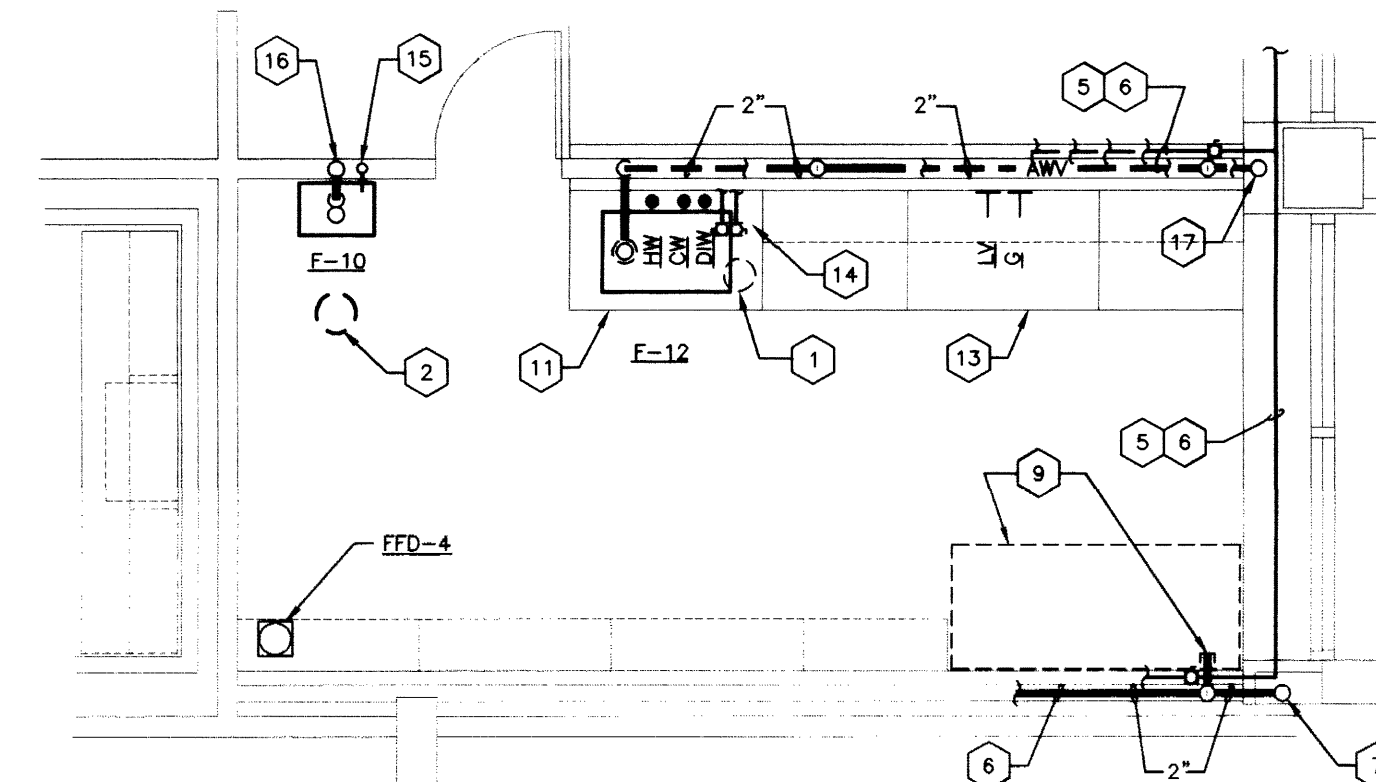
ENLARGED PLAN -  
LAB 450A  
LAB 454A (OPP. HAND)  
SCALE: 1/4" = 1'-0"



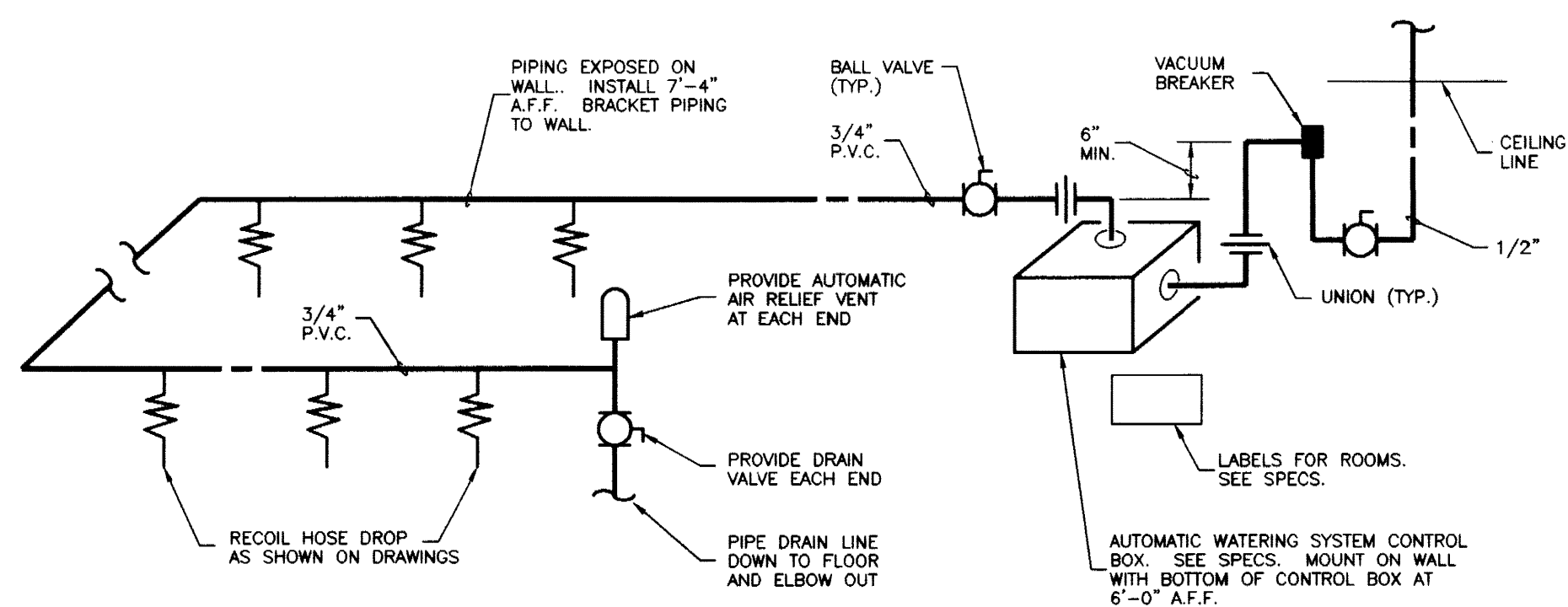
ENLARGED PLAN -  
LABS 438A & 452A  
SCALE: 1/4" = 1'-0"

CODED NOTES: SHEET 9.41

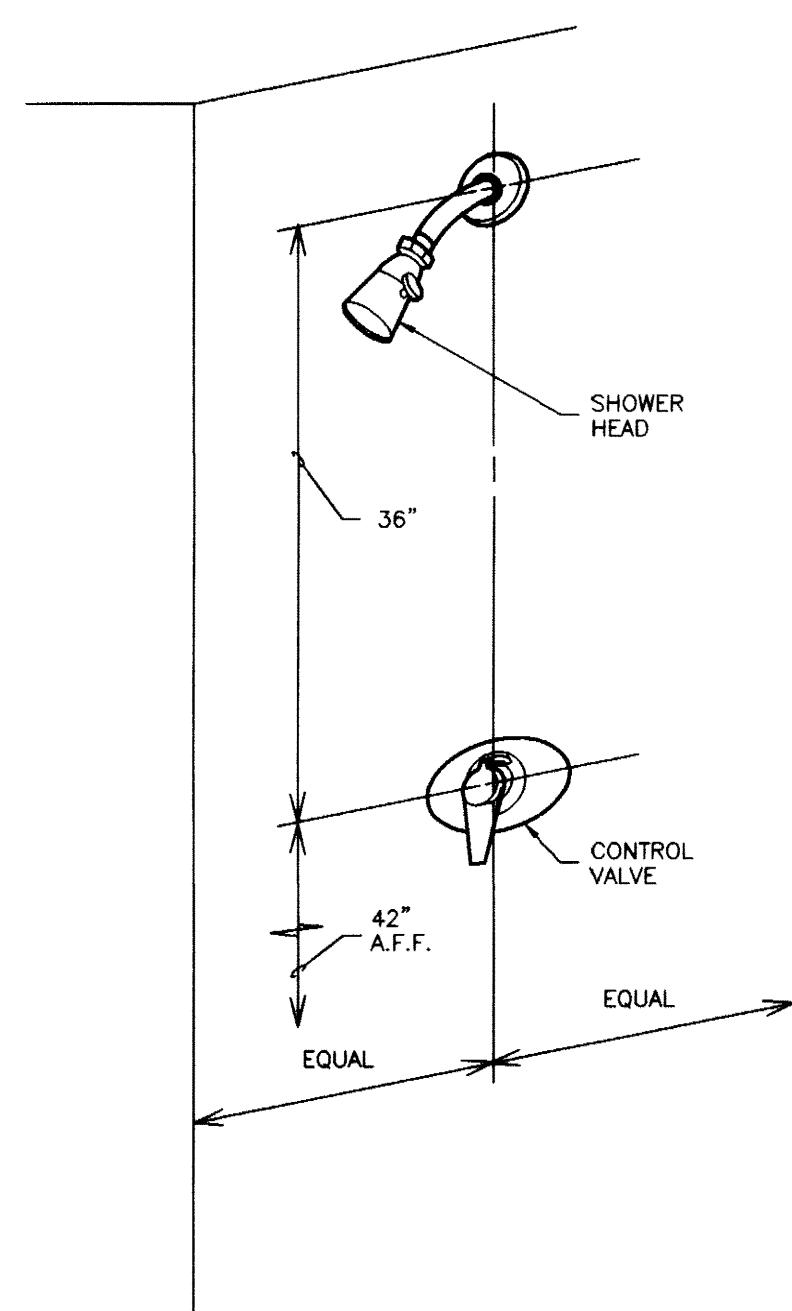
- 1 DEIONIZED WATER UNIT IN SINK BASE CABINET.
- 2 EMERGENCY SHOWER HEAD (F-9) IN CEILING. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION.
- 3 NOT USED.
- 4 NOT USED.
- 5 GAS, LAB VACUUM, COLD WATER AND HOT WATER PIPING.
- 6 PIPING IN PIPE CHASE. SEE FLOOR PLANS AND RISERS FOR PIPE SIZES NOT SHOWN.
- 7 ACID WASTE RISER. SEE FLOOR PLAN(S) FOR SIZE(S).
- 8 ACID WASTE VENT RISER. SEE FLOOR PLAN(S) FOR SIZE(S).
- 9 FUTURE HOOD WITH CUP SINK -- PLUMBING CONNECTIONS REQUIRED: PROVIDE CARPPEL 1/2" COLD WATER, 1/2" GAS, 1/2" LAB VACUUM AND 1-1/2" ACID WASTE LINES IN PIPE CHASE.
- 10 FUME HOOD WITH CUPSINK (F-11) -- PLUMBING CONNECTIONS REQUIRED: COLD WATER, GAS, LAB VACUUM AND ACID WASTE DRAIN.
- 11 LABORATORY UNIT WITH SINK (F-12) -- PLUMBING CONNECTIONS REQUIRED: HOT WATER, COLD WATER, DEIONIZED WATER AND ACID WASTE DRAIN.
- 12 LABORATORY UNIT WITH SERVICE OUTLET -- PLUMBING CONNECTIONS REQUIRED: LAB VACUUM.
- 13 LABORATORY UNIT WITH SERVICE OUTLETS -- PLUMBING CONNECTIONS REQUIRED: GAS AND LAB VACUUM.
- 14 PROVIDE 1/2" THREADED BALL VALVES FOR CONNECTIONS TO DEIONIZED WATER UNIT AS REQUIRED BY DEIONIZED WATER UNIT MANUFACTURER.
- 15 1/2" COLD WATER LINE UP.
- 16 1-1/2" ACID WASTE VENT LINE UP AND 1-1/2" ACID WASTE LINE DOWN.
- 17 2" ACID WASTE VENT LINE UP.
- 18 3/4" H.W. LINE UP.



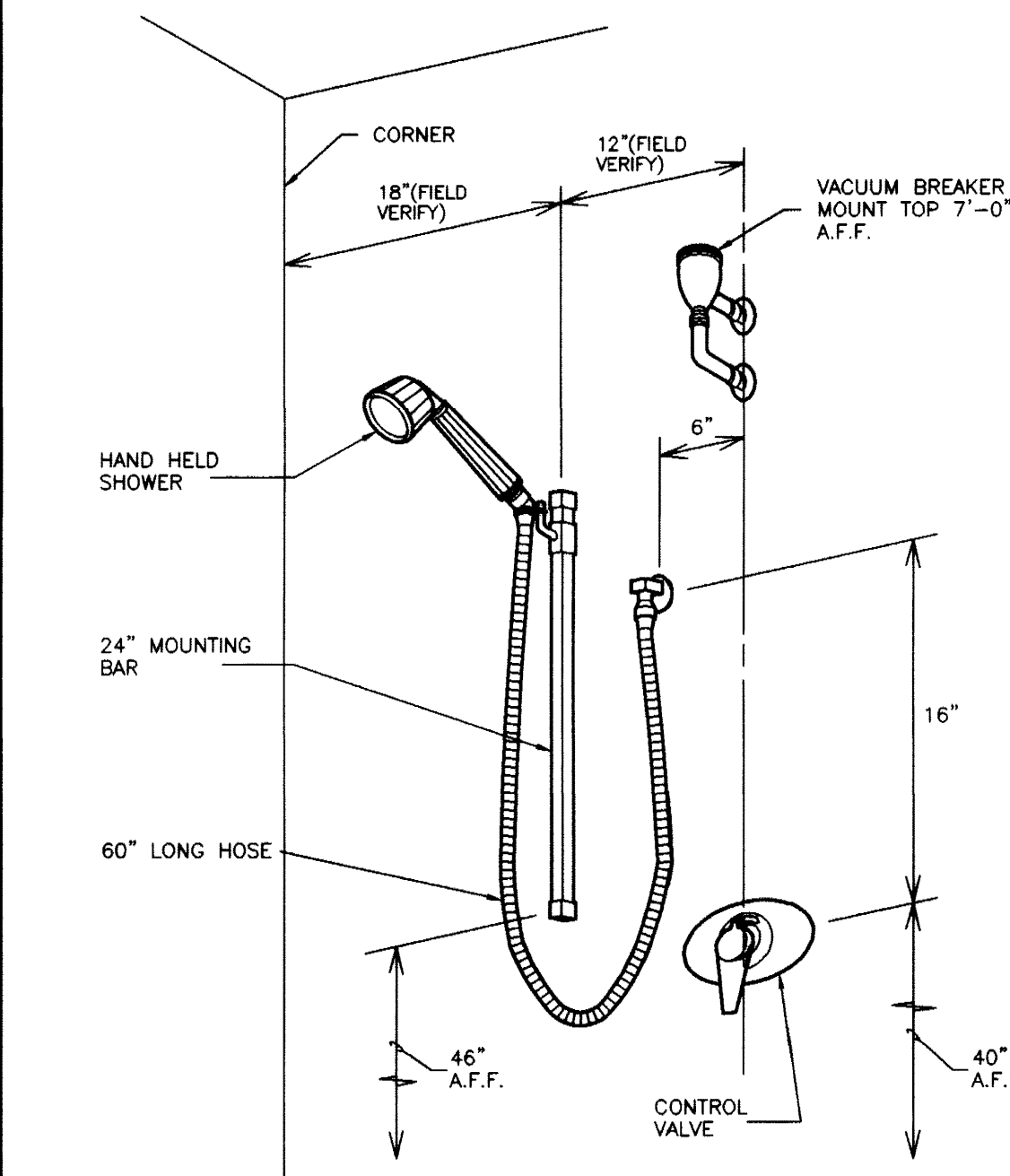
ENLARGED PLAN -  
LAB 461B  
SCALE: 1/4" = 1'-0"



AUTOMATIC WATERING SYSTEM FOR ANIMAL ROOM  
NO SCALE

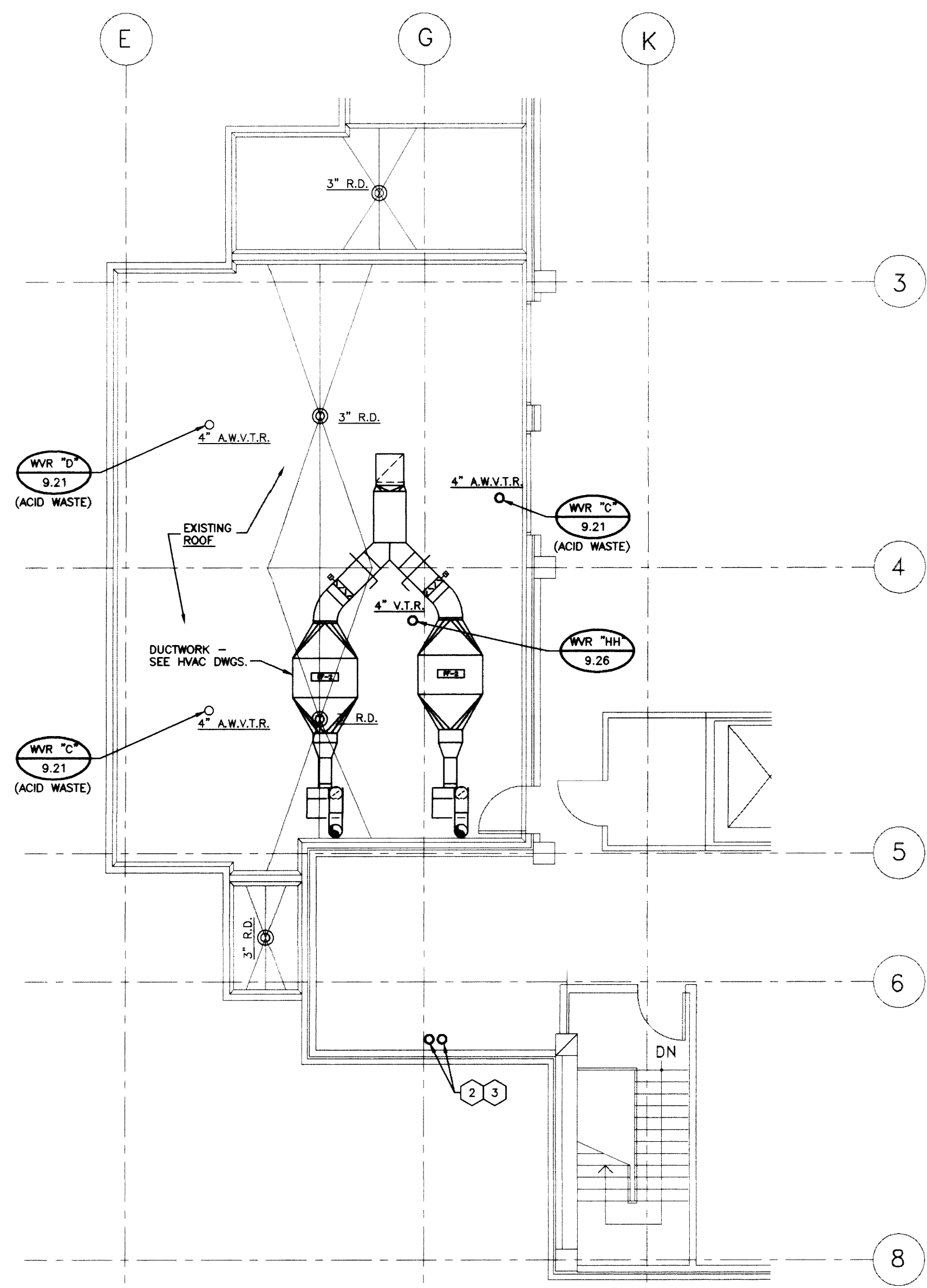


SHOWER (F-7) MOUNTING DETAIL  
NO SCALE

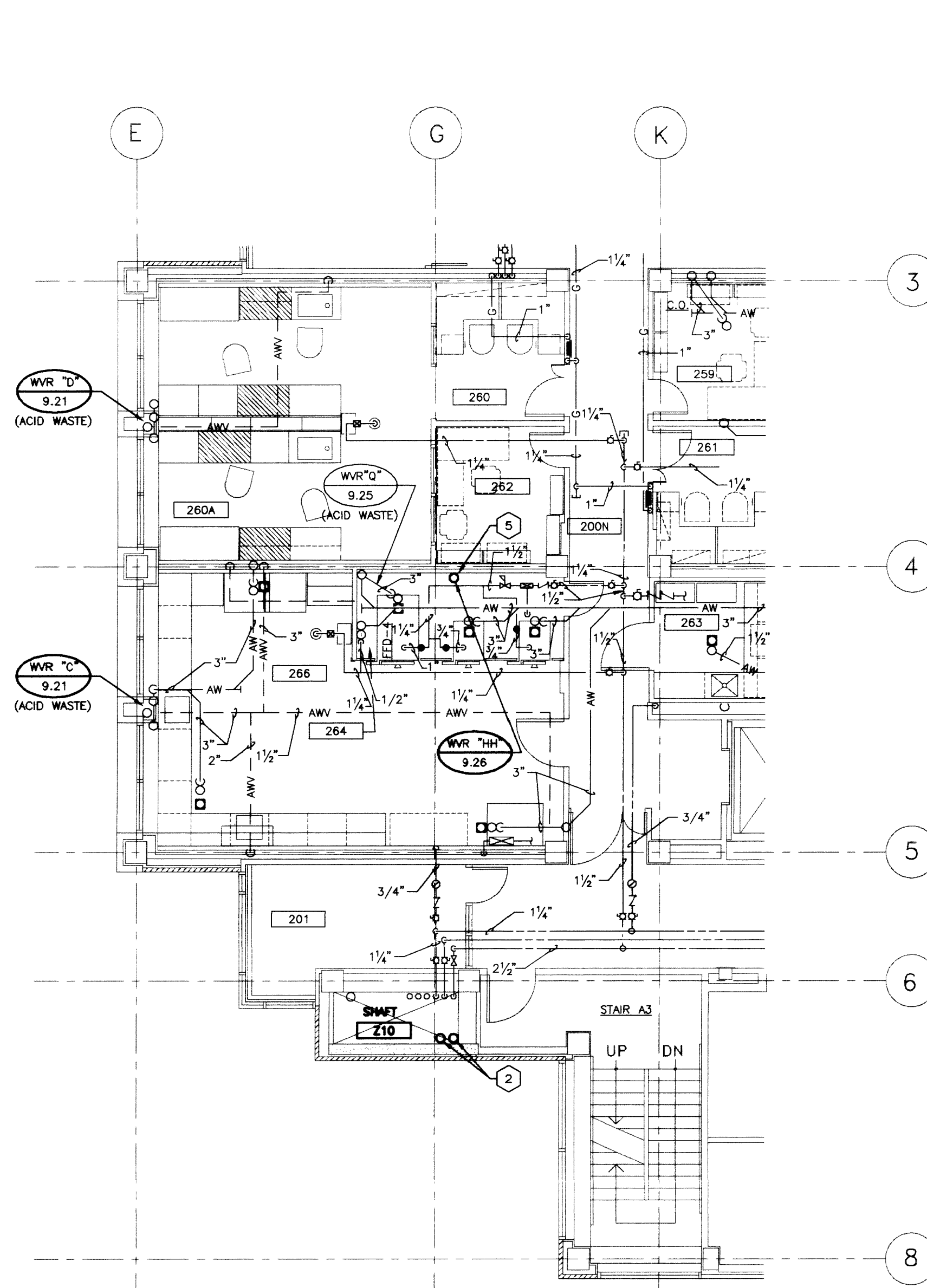


HANDICAPPED SHOWER (F-7A) MOUNTING DETAIL  
NO SCALE

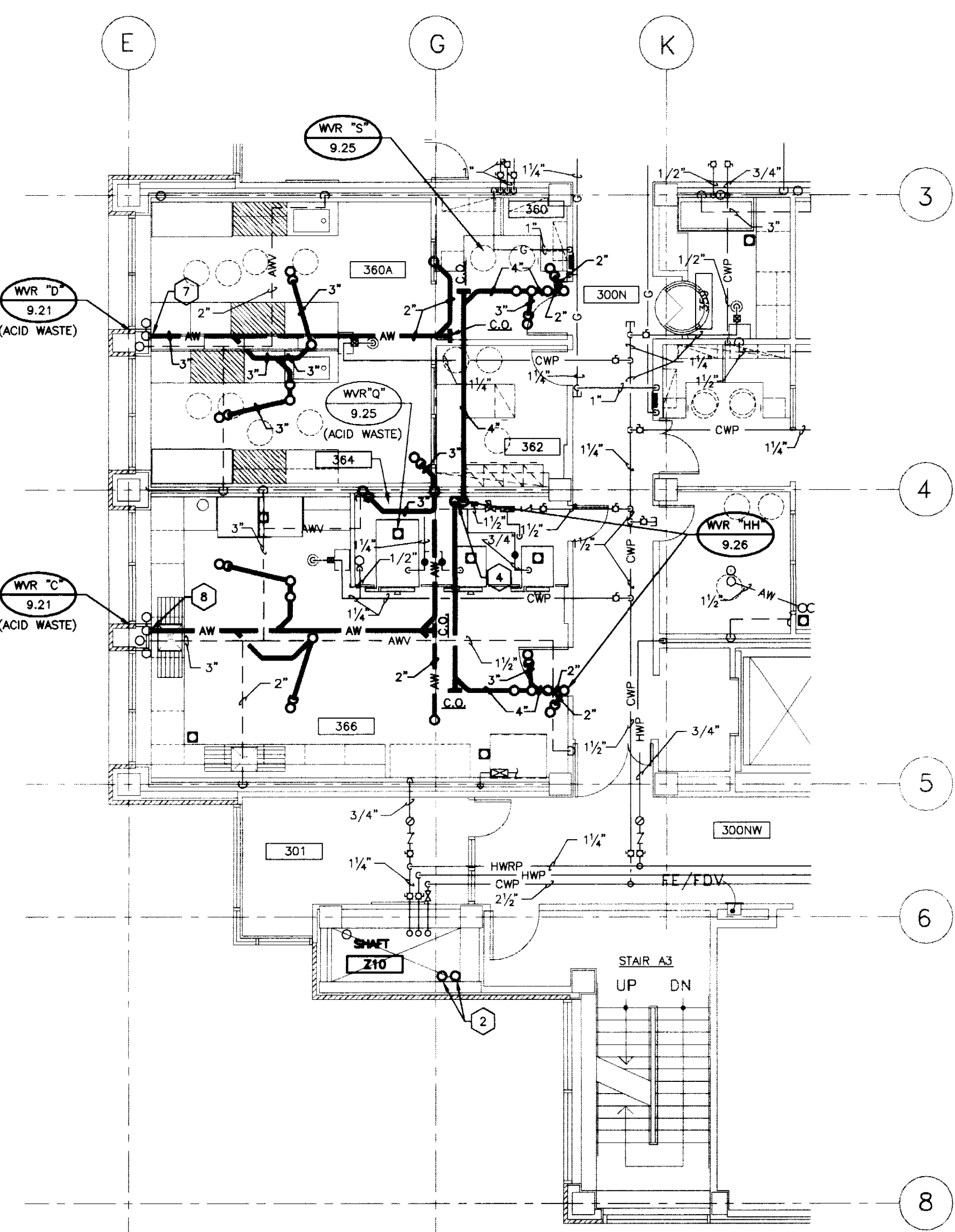




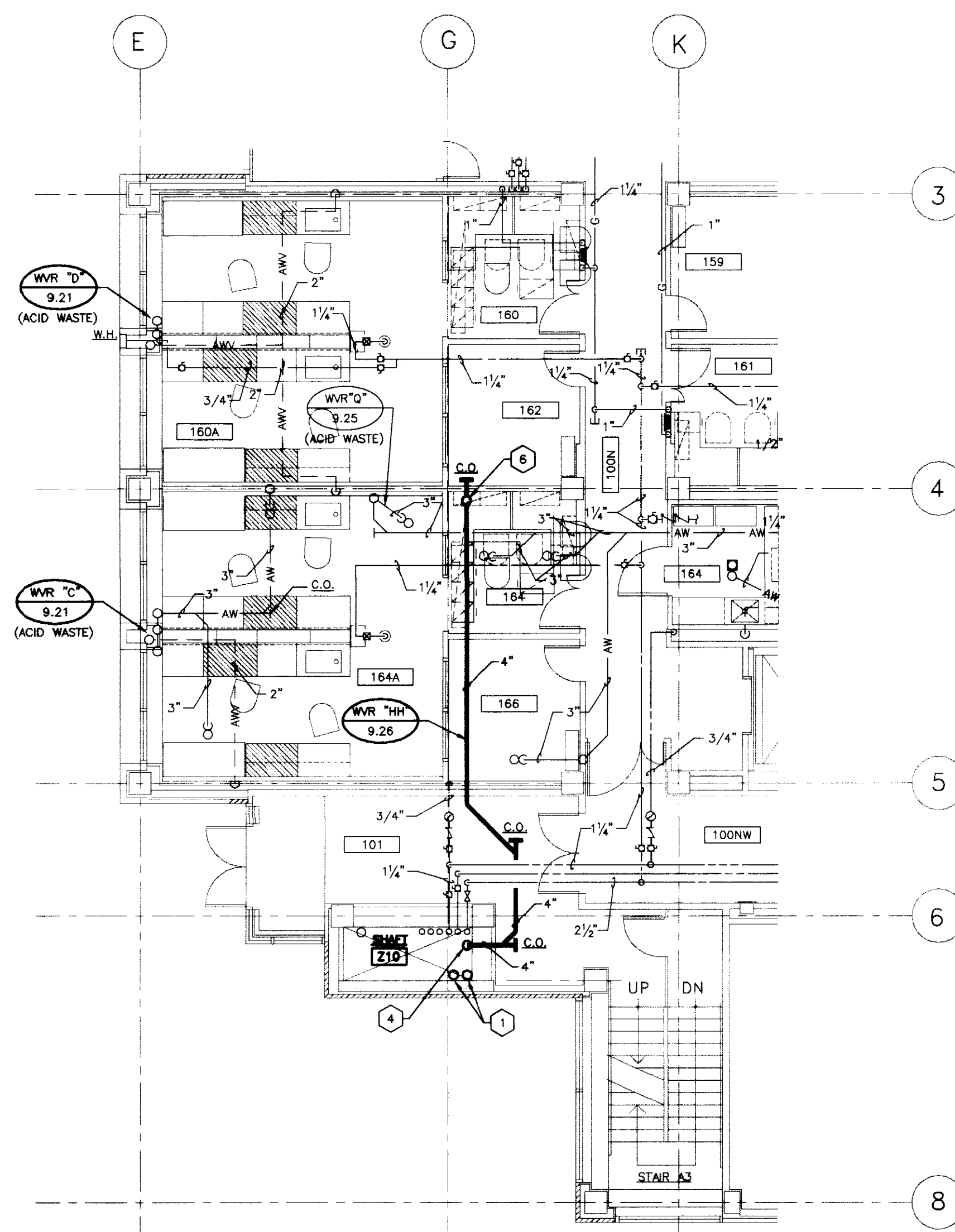
PLUMBING PLAN - PARTIAL ROOF/PENTHOUSE FLOOR  
SCALE: 1/8" = 1'-0" (FINISHED FL. ELEV. 1048'-4")



PLUMBING PLAN - PARTIAL SECOND FLOOR  
SCALE: 1/8" = 1'-0" (FINISHED FL. ELEV. 1007'-0")



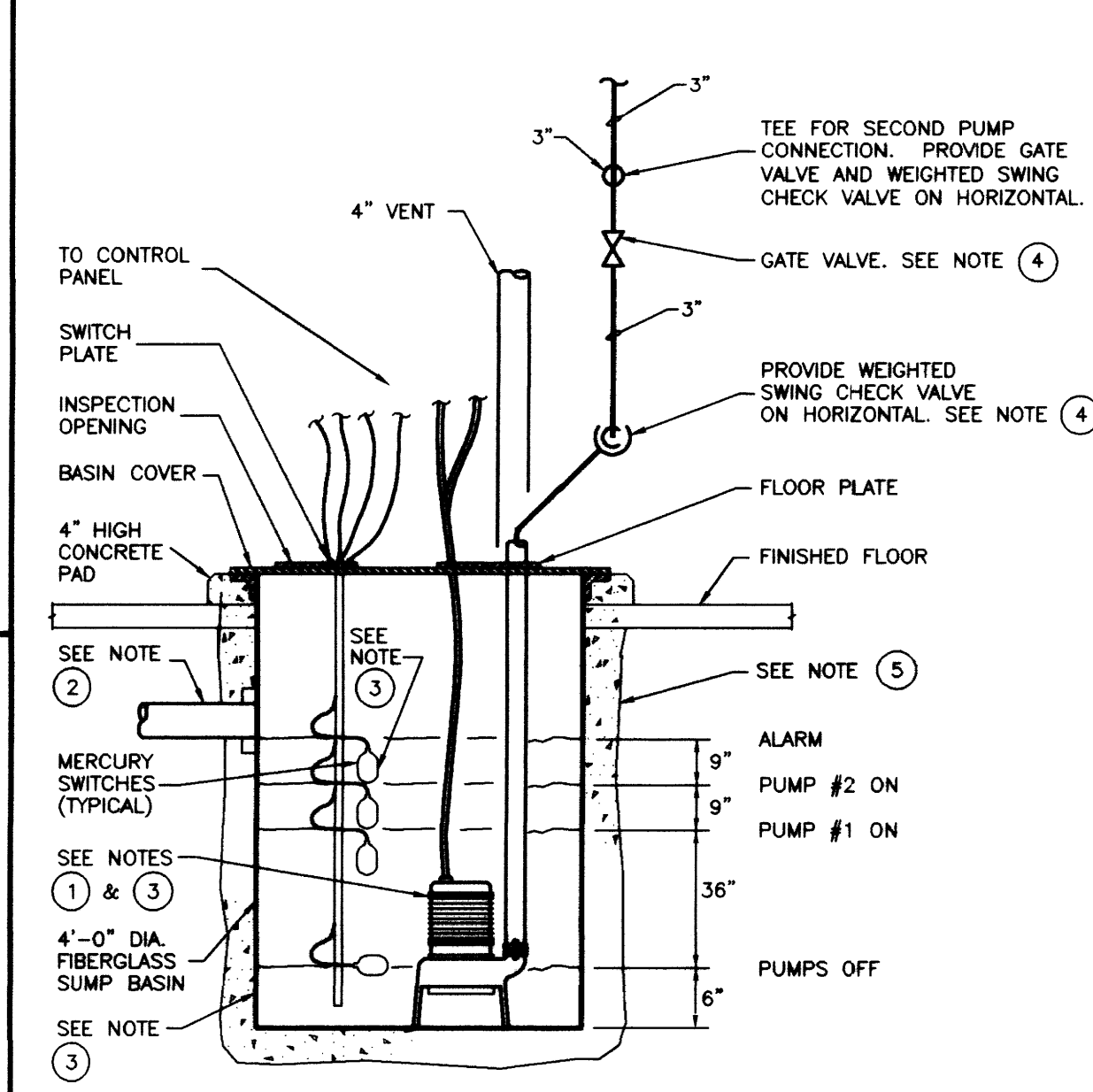
PLUMBING PLAN - PARTIAL THIRD FLOOR  
SCALE: 1/8" = 1'-0" (FINISHED FL. ELEV. 1021'-2")



PLUMBING PLAN - PARTIAL FIRST FLOOR  
SCALE: 1/8" = 1'-0" (FINISHED FL. ELEV. 994'-0")

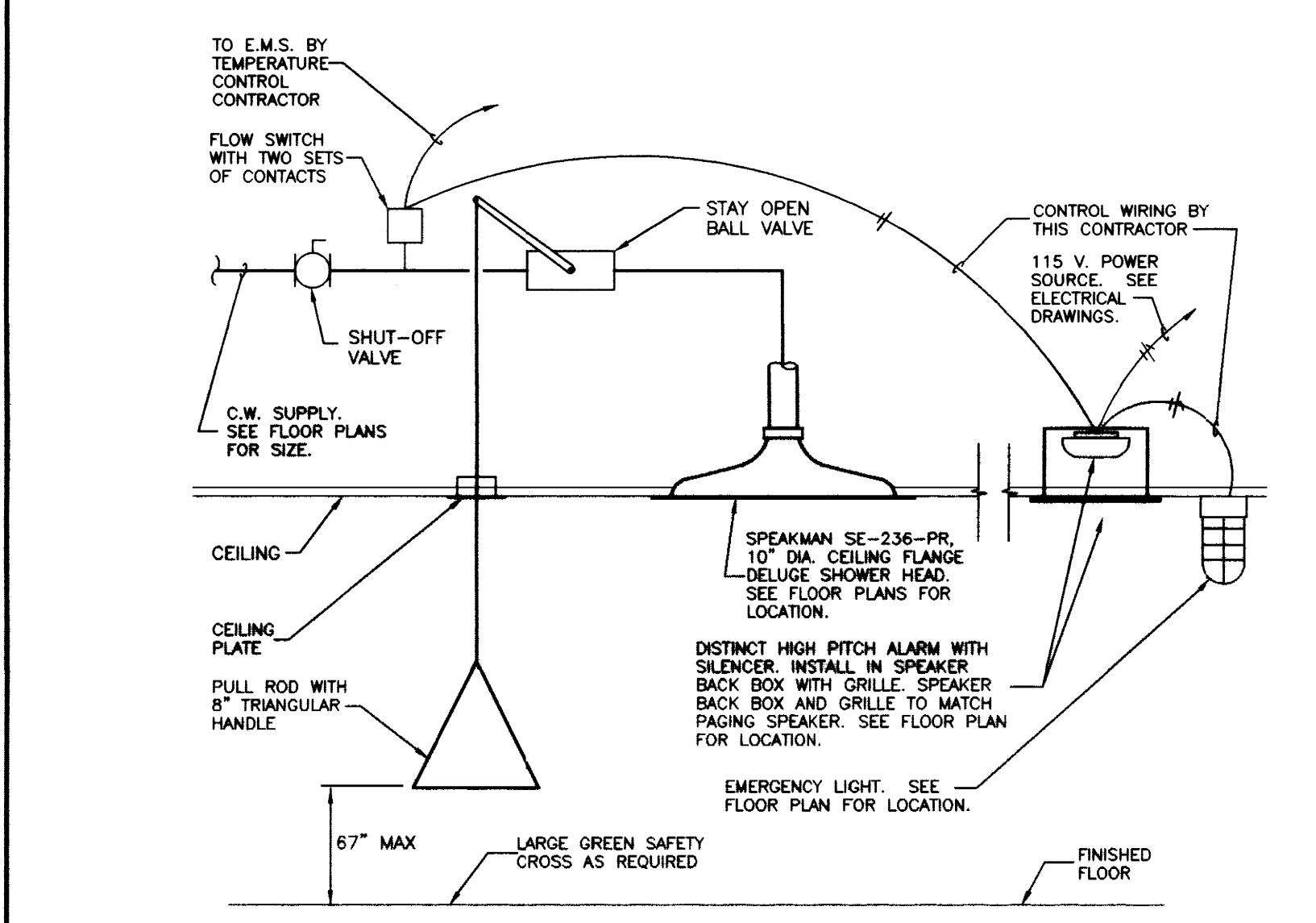
- CODED NOTES, SHEET 9.42
- 3" MEDICAL VACUUM EXHAUST AND 3" WASTE GAS EVACUATION EXHAUST VENT LINES UP FROM ANIMAL CARE FLOOR BELOW. SEE SHEET 9.14. EXTEND UP THROUGH BUILDING IN SHAFT Z10 AS SHOWN ON PARTIAL FLOOR PLANS THIS SHEET.
  - 3" MEDICAL VACUUM EXHAUST AND 3" WASTE GAS EVACUATION EXHAUST VENT LINES UP AND DOWN.
  - EXTEND EXHAUST LINES UP THROUGH AND TERMINATE WITH A 180° GOOSENECK WITH OPEN END OF EXHAUST VENT LINES 12" MINIMUM ABOVE ROOF. PROVIDE COPPER FLASHING BOOT AT ROOF WITH COUNTERFLASHING SOLDERED TO VENT PIPING.
  - NEW 4" SOIL LINE DOWN.
  - NEW 4" SOIL LINE UP AND DOWN.
  - NEW 4" SOIL LINE DOWN FROM SECOND FLOOR ABOVE.
  - CONNECT TO EXISTING 3" ACID WASTE LINE ON VERTICAL ON IN THIRD FLOOR CEILING SPACE.
  - CONNECT TO EXISTING 4" ACID WASTE LINE ON VERTICAL ON IN THIRD FLOOR CEILING SPACE.

- CODED NOTES, DUPLEX SANITARY SUMP PUMP DETAIL
- DUPLEX SUBMERSIBLE SANITARY SUMP PUMP: EACH PUMP A WEIL SERIES 2400, SIZE 3", 100 GPM AT 30' HEAD, 1750 RPM, 2 H.P., 3 PHASE, 208 VOLTS, 60 CYCLES. PROVIDE GASKETED COVER, INSPECTION PLATE AND VENT CONNECTION. PUMPS SHALL PASS 2" SOLIDS.
  - SEE FLOOR PLANS FOR EXACT LOCATION, INVERT ELEVATION(S) AND SIZE(S) OF INLET(S) INTO BASIN.
  - SEE SPECIFICATIONS, DIVISION 15, FOR PUMPS, MERCURY SWITCHES, BASIN AND OTHER ACCESSORIES.
  - SEE SPECIFICATIONS, DIVISION 15, FOR GATE VALVES AND WEIGHTED SWING CHECK VALVES.
  - ENCASE SUMP BASIN IN CONCRETE AS RECOMMENDED BY BASIN MANUFACTURER.

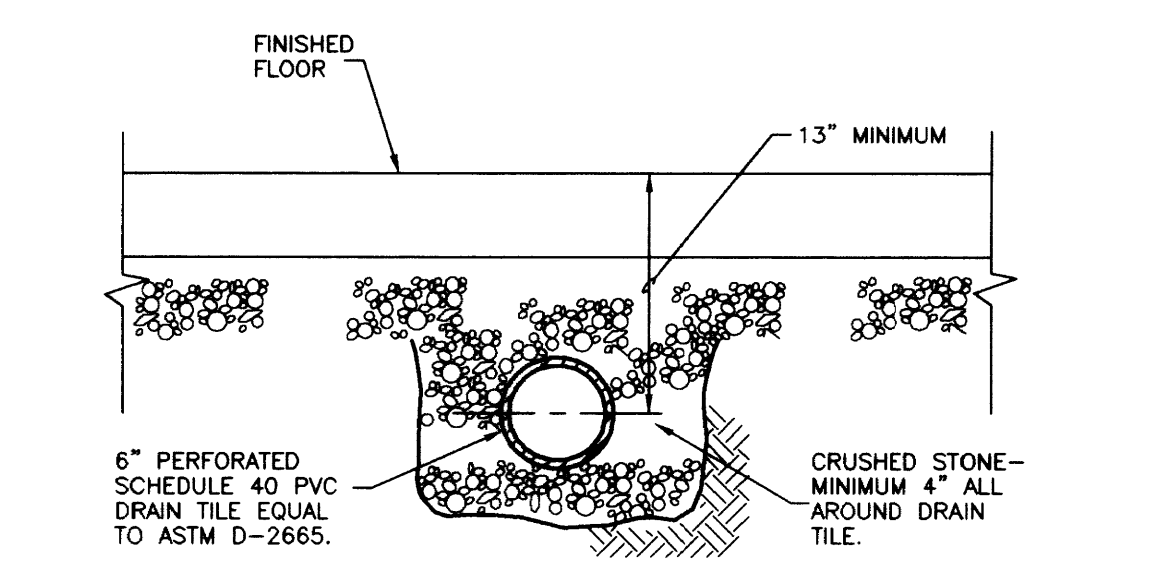


DUPLEX SANITARY SUMP PUMP DETAIL  
NO SCALE

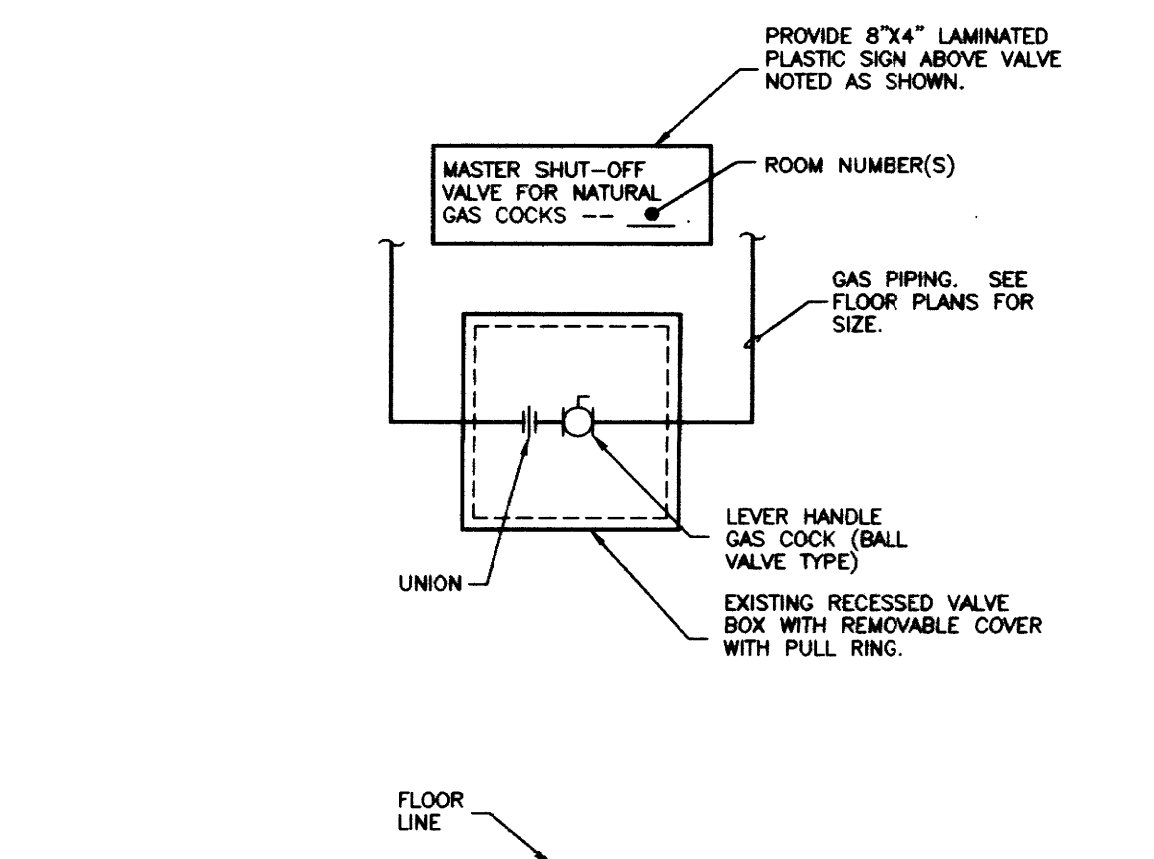
- FIXTURE SCHEDULE AND ROUGH-IN REQUIREMENTS
- A F-1 WATER CLOSET (WALL HUNG - STANDARD MOUNTING) --- 15" FROM FLOOR TO EDGE OF BOWL.
  - B F-1A WATER CLOSET (WALL HUNG - HANDICAPPED MOUNTING) --- 18" HIGH BOWL.
  - C F-2 LAVATORY (WALL HUNG - STANDARD MOUNTING) --- 31" FROM FLOOR TO TOP EDGE OF BASIN.
  - D F-2 LAVATORY (WALL HUNG - HANDICAPPED MOUNTING) --- 34" FROM FLOOR TO TOP EDGE OF BASIN (29" MINIMUM FROM FLOOR TO BOTTOM EDGE OF BASIN APRON).
  - E F-6 MOP BASIN --- 30" FROM FLOOR TO CENTERLINE OF SUPPLIES.
  - F F-7 SHOWER --- SEE DETAIL ON SHEET 9.41.
  - G F-7A SHOWER (HANDICAPPED MOUNTING) --- SEE DETAIL ON SHEET 9.41.
  - H F-8 SINK --- SINK MOUNTED IN COUNTERTOP. SEE ARCHITECTURAL DRAWINGS.
  - I F-8A SINK (WALL HUNG) --- 36" FROM FLOOR TO EDGE OF RIM.



EMERGENCY SHOWER (F-9) DETAIL  
NO SCALE



UNDERFLOOR DRAIN TILE INSTALLATION DETAIL  
NO SCALE



MASTER GAS SHUT-OFF VALVE BOX DETAIL  
NO SCALE

FLOOR DRAIN SCHEDULE					
TYPE	MANUFACTURER	MODEL NO.	BODY	TOP	REMARKS
FD-1	ZURN	ZN-415	CAST IRON (DURA-COATED)	NICKLE BRONZE	(1) (3)
FD-2	ZURN	Z-550	CAST IRON (DURA-COATED)	CAST IRON (DURA-COATED)	(2) (3)
FD-3	NOT USED	-----	-----	-----	-----
FD-4	DURIRON CO.	5501BF	SILICON IRON	SILICON IRON	(6) (7) (8)
FD-5	ZURN	ZN-415	CAST IRON (DURA-COATED)	NICKLE BRONZE	(9)

- REMARKS:
- 6" DIAMETER, TYPE "B" STRAINER.
  - 9" DIAMETER STRAINER.
  - FLOOR DRAINS INDICATED ON THE DRAWINGS WITH A PREFIX "T" SHALL BE PROVIDED WITH A 2"-414-1-7/8" OVAL FUNNEL, 1" HIGH WITH NICKLE BRONZE FINISH FOR POLISHED BRONZE DRAINS AND DURA-COATED FOR CAST IRON DRAINS.
  - NOT USED.
  - NOT USED.
  - WITH FLASHING RING (ON FLOORS ABOVE GRADE).
  - ACID RESISTANT.
  - ACID WASTE FLOOR DRAINS INDICATED ON THE DRAWINGS WITH A PREFIX "T" SHALL BE PROVIDED WITH A DURIRON DURCOMET 100 FUNNEL, 6" HIGH.
  - 6" DIAMETER TYPE "T" STRAINER (SOLID WITH SPANNER WRENCH AND SECONDARY DRAIN).

CJM  
CHRIMMAN MILLER WOODFORD, INC.  
REGISTERED PROFESSIONAL ENGINEERS  
238 S. BROADWAY  
LEWISTON, KENTUCKY 40343

SE  
Stagg and Fisher  
REGISTERED PROFESSIONAL ENGINEERS  
1000 W. MARKET STREET  
LEXINGTON, KENTUCKY 40502  
FAILURE TO ABIDE BY THESE REQUIREMENTS OR TO OBTAIN NECESSARY PERMITS MAY BE PENALIZED BY THE STATE OF KENTUCKY.  
STATE OF KENTUCKY  
BRUNSON  
REGISTERED PROFESSIONAL ENGINEER  
1000 W. MARKET STREET  
LEXINGTON, KENTUCKY 40502

PLUMBING DETAILS  
Medical Research Fit-up and Security System  
University of Kentucky  
Project No. 747.3

BHT. PROJECT TITLE  
DATE: MAY 1986  
DRAWN BY: DMH  
CHECKED BY: DMB  
REVISED:  
DATE: 1  
2  
3  
SHEET NUMBER  
9.42  
PROJECT NUMBER

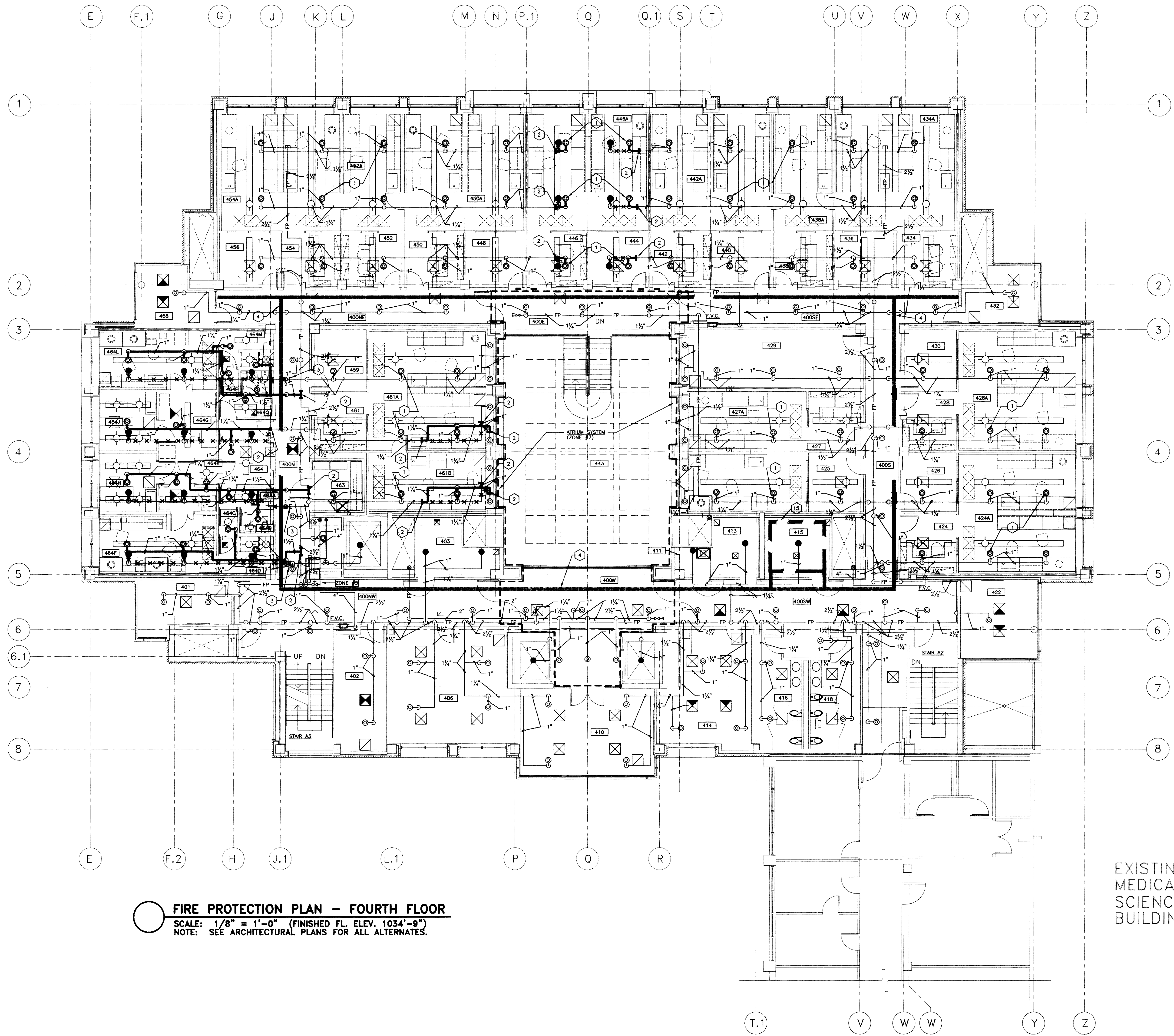
RECORD DRAWINGS DATE 8-5-96  
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STAGGS & FISHER CONSULTING ENGINEERS, INC.

FINAL DOCUMENTS

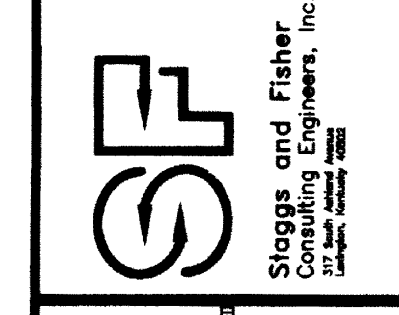
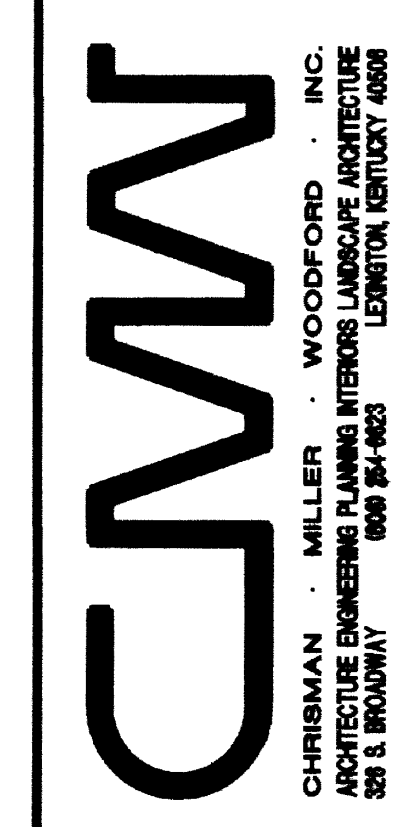
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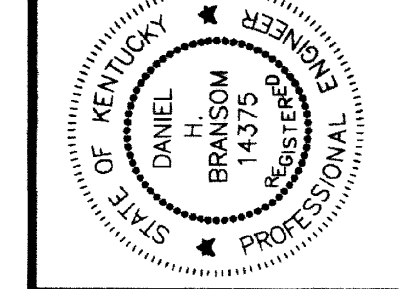
ROOM NO.	ROOM NAME	ROOM NO.	ROOM NAME
400E	CORRIDOR	442	WORK STATION
400SE	CORRIDOR	442A	LAB
400S	CORRIDOR	443	ATRIUM
400SW	CORRIDOR	444	OFFICE
400W	CORRIDOR	445	WORK STATION
400NW	CORRIDOR	446A	LAB
400N	CORRIDOR	446	LAB
400NE	CORRIDOR	447	WORK STATION
401	INTERSECTION	450A	LAB
402	JANITOR'S EQUIPMENT	452	WORK STATION
403	ELECTRIC ROOM	452A	LAB
406	CLERICAL	454	WORK STATION
410	GENERAL CONFERENCE	454A	LAB
411	JANITOR'S CLOSET	456	OFFICE
413	ELECTRIC ROOM	458	INTERACTION
414	COFFEY/MEETING	459	OFFICE
415	COMMUNICATIONS ROOM	461	WORK STATION
416	MENS TOILET	461A	LAB
418	WOMENS TOILET	461B	LAB
422	INTERSECTION	463	COLD ROOM
424	WORK STATION	464	ANTE ROOM
424A	LAB	464A	LOCKER
425	OFFICE	464B	TOILET
426	OFFICE	464C	VESTIBULE
427	WORK STATION	464D	DECONTAMINATION
427A	LAB	464E	SHOWER
428	WORK STATION	464F	LAB
428A	LAB	464G	LAB
429	SHARED EQUIPMENT	464H	ANIMAL ROOM
430	OFFICE	464I	ANIMAL ROOM
432	INTERACTION	464K	VESTIBULE
434	WORK STATION	464L	LAB
434A	LAB	464M	DECONTAMINATION
436	OFFICE	464N	LAB
438	WORK STATION	464P	SHOWER
438A	LAB	464Q	VESTIBULE
440	LAB	464R	LOCKER
		464S	TOILET



- CODED NOTES: SHEET 9.51
- TURN EXISTING UPRIGHT SPRINKLER ARMS DOWN TO NEW CEILING HEIGHTS. INSTALL NEW SEMI RECESSED PENDENT MOUNT SPRINKLER HEADS. TYPICAL.
  - CONNECT NEW SPRINKLER PIPING TO EXISTING SPRINKLER PIPING.
  - REMOVE EXISTING SPRINKLER PIPING AND CAP OF EXISTING PIPING AT LOCATION INDICATED.
  - EXISTING CABLE TRAY. SEE ELECTRICAL DRAWINGS.



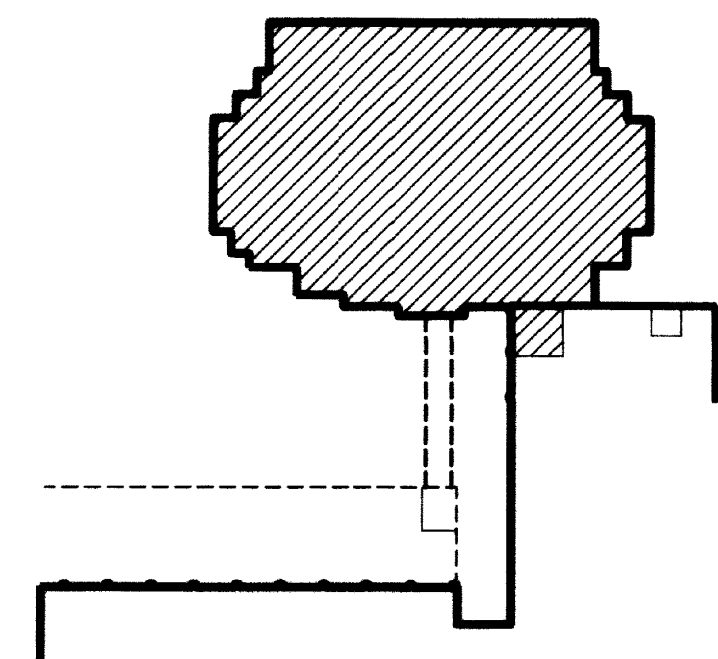
STAGGS & FISHER CONSULTING ENGINEERS, INC.  
 205 S. MAIN ST., SUITE 200  
 COVINGTON, KY 40303  
 (606) 426-1100



**FIRE PROTECTION PLAN - FOURTH FLOOR**  
**Medical Research Fit-up and Security System**  
**University of Kentucky**  
**Project No. 747.3**

RECORD DRAWINGS DATE 8-5-96  
 These record drawings have been prepared, in part, on the basis of information compiled and furnished by others. The Engineer will not be responsible for any errors or omissions which have been incorporated into this document as a result.  
 STAGGS & FISHER CONSULTING ENGINEERS, INC.

EXISTING MEDICAL SCIENCE BUILDING



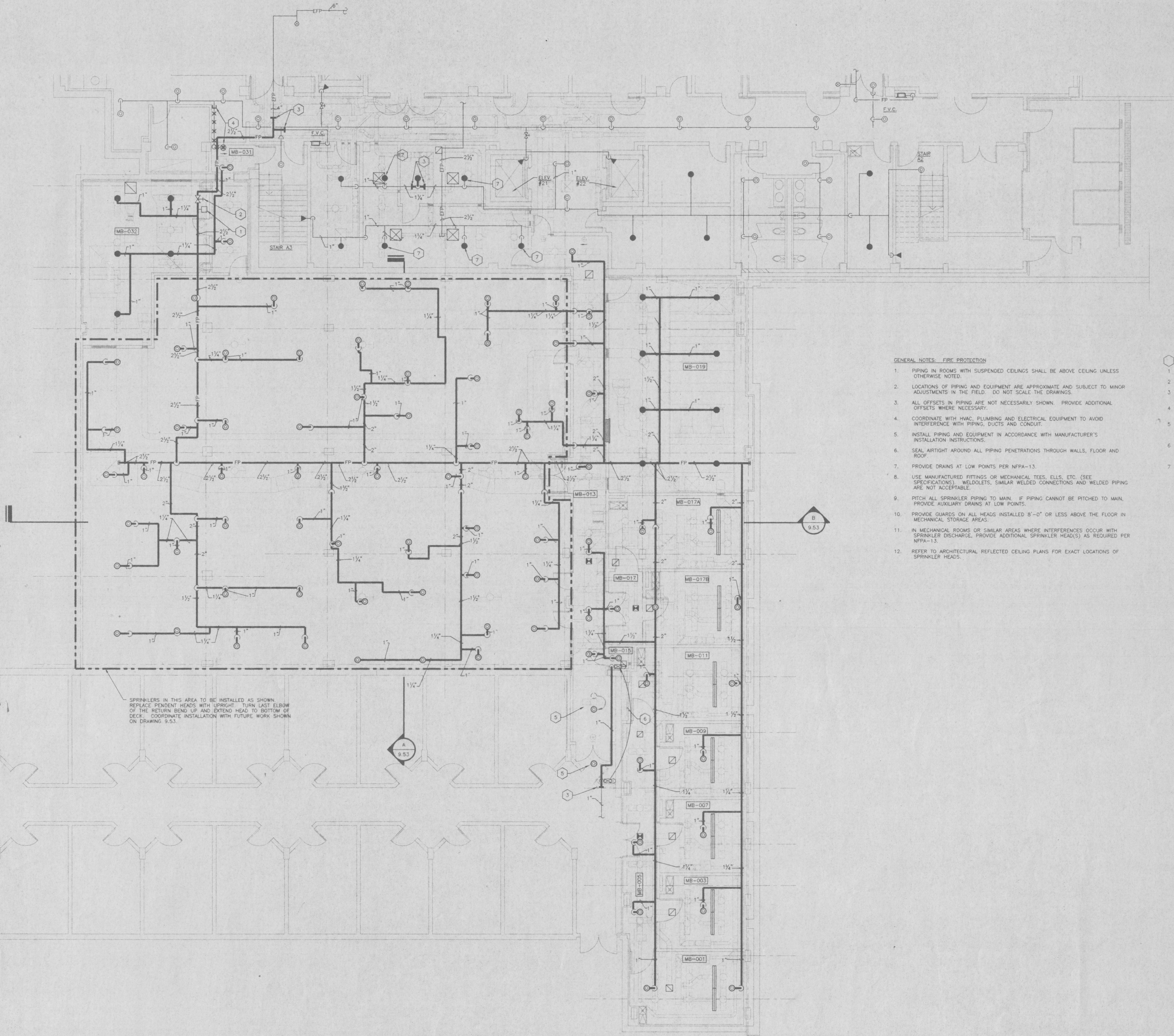
KEY PLAN

**FIRE PROTECTION PLAN - FOURTH FLOOR**  
 SCALE: 1/8" = 1'-0" (FINISHED FL. ELEV. 1034'-9")  
 NOTE: SEE ARCHITECTURAL PLANS FOR ALL ALTERNATES.

SHT.	PROJECT TITLE
DATE	MARCH 1996
DRAWN BY	DWB
CHECKED BY	DWB
REVISION	
DATE	
1	
2	
3	
4	
SHEET NUMBER	9.51
PROJECT NUMBER	



DRAWING: S:\DWG\UNAC\UNAC\9-52, DIMSCALE: 1/8" = 1'-0", DATE: 05/09/95 AT 11:27



SPRINKLERS IN THIS AREA TO BE INSTALLED AS SHOWN. REPLACE PENDENT HEADS WITH UPRIGHT. TURN LAST ELBOW OF THE RETURN BEND UP AND EXTEND HEAD TO BOTTOM OF DECK. COORDINATE INSTALLATION WITH FUTURE WORK SHOWN ON DRAWING 9.53.

- GENERAL NOTES - FIRE PROTECTION**
1. PIPING IN ROOMS WITH SUSPENDED CEILINGS SHALL BE ABOVE CEILING UNLESS OTHERWISE NOTED.
  2. LOCATIONS OF PIPING AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.
  3. ALL OFFSETS IN PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.
  4. COORDINATE WITH HVAC, PLUMBING AND ELECTRICAL EQUIPMENT TO AVOID INTERFERENCE WITH PIPING, DUCTS AND CONDUIT.
  5. INSTALL PIPING AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
  6. SEAL AIRTIGHT AROUND ALL PIPING PENETRATIONS THROUGH WALLS, FLOOR AND ROOF.
  7. PROVIDE DRAINS AT LOW POINTS PER NFPA-13.
  8. USE MANUFACTURED FITTINGS OR MECHANICAL TEES, ELLS, ETC. (SEE SPECIFICATIONS). WELDOLETS, SIMILAR WELDED CONNECTIONS AND WELDED PIPING ARE NOT ACCEPTABLE.
  9. PITCH ALL SPRINKLER PIPING TO MAIN. IF PIPING CANNOT BE PITCHED TO MAIN, PROVIDE AUXILIARY DRAINS AT LOW POINTS.
  10. PROVIDE GUARDS ON ALL HEADS INSTALLED 8'-0" OR LESS ABOVE THE FLOOR IN MECHANICAL STORAGE AREAS.
  11. IN MECHANICAL ROOMS OR SIMILAR AREAS WHERE INTERFERENCES OCCUR WITH SPRINKLER DISCHARGE, PROVIDE ADDITIONAL SPRINKLER HEAD(S) AS REQUIRED PER NFPA-13.
  12. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF SPRINKLER HEADS.

- CODED NOTES - SHEET 9.53**
1. NEW ZONE SUPERVISED VALVE.
  2. NEW FLOW SWITCH.
  3. CONNECT NEW SPRINKLER PIPING TO EXISTING SPRINKLER PIPING.
  4. REMOVE EXISTING SPRINKLER HEAD AND PIPING. CAP OFF EXISTING PIPING AT LOCATION INDICATED.
  5. REPLACE EXISTING PENDENT SPRINKLER HEAD WITH NEW SEMI-RECESSED SPRINKLER HEAD. CONNECT TO EXISTING SPRINKLER PIPING AS REQUIRED.
  6. RELOCATE EXISTING INSPECTOR'S TEST CONNECTION TO JANITOR MB-015. PIPE DRAIN TO NEW OPEN HUB DRAIN. SEE PLUMBING DRAWINGS.
  7. REPLACE EXISTING PENDENT SPRINKLER HEAD WITH NEW UPRIGHT SPRINKLER HEAD. CONNECT TO EXISTING SPRINKLER PIPING AS REQUIRED.

**ROOM SCHEDULE:**

MB-001	ANIMAL ROOM
MB-002	ANIMAL ROOM
MB-003	ANIMAL ROOM
MB-004	ANIMAL ROOM
MB-005	ANIMAL ROOM
MB-006	ANIMAL ROOM
MB-007	ANIMAL ROOM
MB-008	ANIMAL ROOM
MB-009	ANIMAL ROOM
MB-010	ANIMAL ROOM
MB-011	ANIMAL ROOM
MB-012	ANIMAL ROOM
MB-013	ANIMAL ROOM
MB-014	MEN'S TOILET
MB-015	TOILET
MB-016	SHOWER
MB-017	JANITOR
MB-018	HOUSEKEEPING
MB-019	VESTIBULE
MB-020	ANIMAL ROOM
MB-021	ANIMAL ROOM
MB-022	CLINICAL ROOM
MB-023	MECHANICAL ROOM
MB-024	STORAGE
MB-025	CORRIDOR
MB-026	OFFICE
MB-027	WOMEN'S LOCKER
MB-028	TOILET
MB-029	PREP
MB-030	TOILET
MB-031	PREP
MB-032	TOILET
MB-033	TOILET
MB-034	TOILET
MB-035	TOILET
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MB-100	TOILET

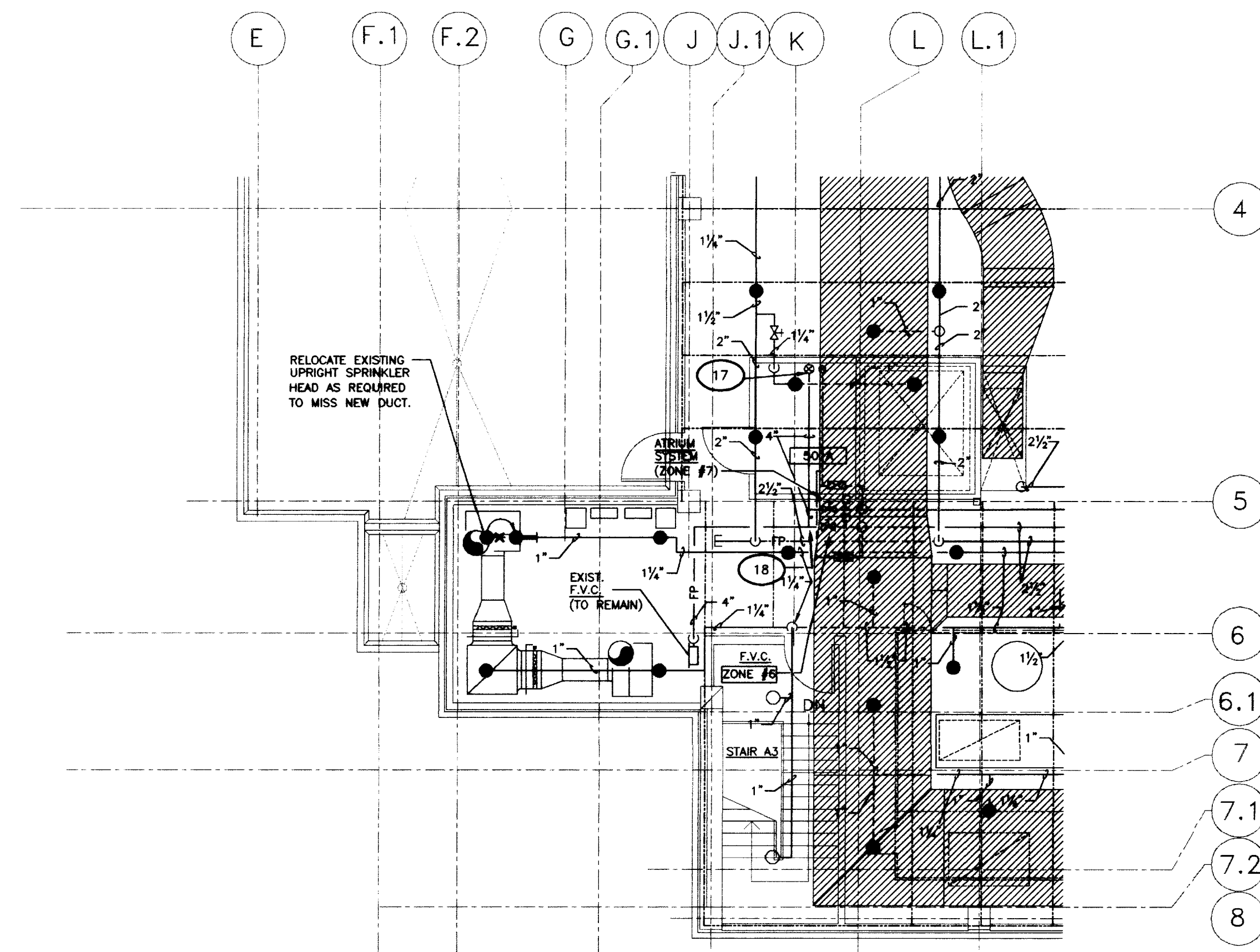
**FIRE PROTECTION PLAN - ANIMAL CARE FLOOR**  
SCALE: 1/8" = 1'-0" (FINISHED FL. ELEV. 979'-0")

SHT.	PROJECT TITLE
DATE:	MAY 1995
DRAWN BY:	DWH
CHECKED BY:	DWB
REVISED:	
DATE	1
	2
	3
	4
SHEET NUMBER	9.52
PROJECT NUMBER	



EXISTING FIRE PROTECTION DESIGN INFORMATION - AREA #1

A. STATIC PRESSURE = 64 PSI  
 B. RESIDUAL PRESSURE = 50 PSI  
 C. RESIDUAL FLOW = 1823 GPM  
 D. BUILDING OCCUPANCY = ORDINARY GROUP 1  
 E. TOTAL FLOW REQUIRED = 608.96 GPM  
 F. SPRINKLER FLOW REQUIRED = 359.03 GPM  
 G. DESIGN AREA = 1500 SQ. FT.  
 H. DESIGN DENSITY = 0.16 GPM/FT.

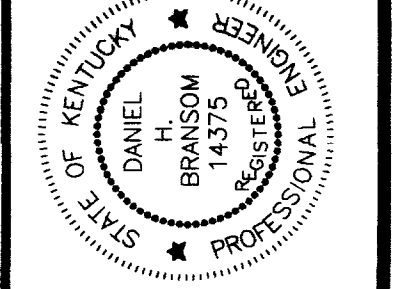


**FIRE PROTECTION PLAN - PARTIAL ROOF/PENTHOUSE**  
 SCALE: 1/8" = 1'-0" (FINISHED FL. ELEV. 1048'-4")

**CJM**  
 CHRISTMAN MILLER WOODFORD, INC.  
 ARCHITECTURE ENGINEERING PLANNING INTERIOR LAMINATE INTERIORS  
 505 S. BRADMAN  
 BOONVILLE, MISSOURI 64608

**SF**  
 Stagg and Fisher  
 Consulting Engineers, Inc.  
 1000 N. 10th St.  
 Lexington, KY 40502

FAILURE TO ADHERE TO THESE SPECIFICATIONS OR TO OBTAIN GUIDANCE FROM THE DESIGNER SHALL BE AT THE USER'S RISK. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE DESIGNER SHALL NOT BE RESPONSIBLE FOR THE USER'S NEGLIGENCE OR MISUSE OF THE INFORMATION PROVIDED HEREIN.



**FIRE PROTECTION PLAN - PARTIAL ROOF/PENTHOUSE**  
**Medical Research Fit-up and Security System**  
**University of Kentucky**  
**Project No. 747.3**

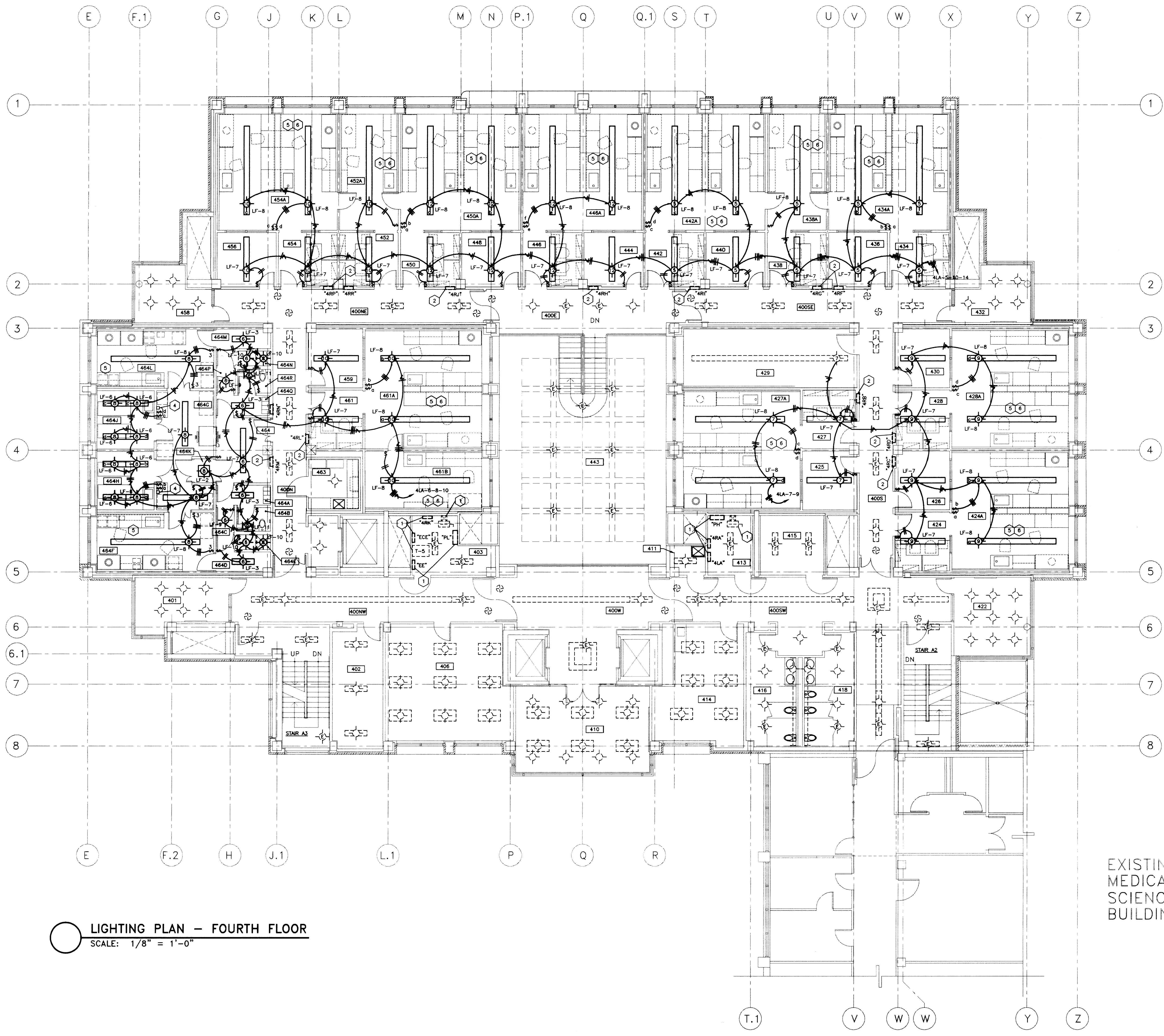
SHT. PROJECT TITLE  
 DATE: MAY 1996  
 DRAWN BY: DWH  
 CHECKED BY: DWH  
 REVISION:  
 DATE:  
 .  
 .  
 .

SHEET NUMBER  
**9.53**  
 PROJECT NUMBER

RECORD DRAWINGS DATE 8-5-96  
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 STAGGS & FISHER CONSULTING ENGINEERS, INC.



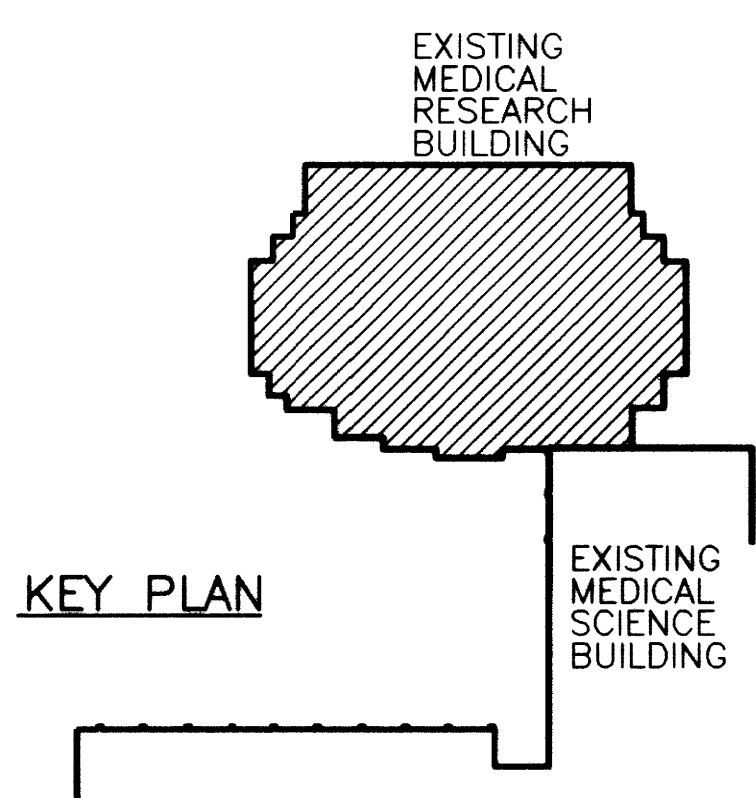
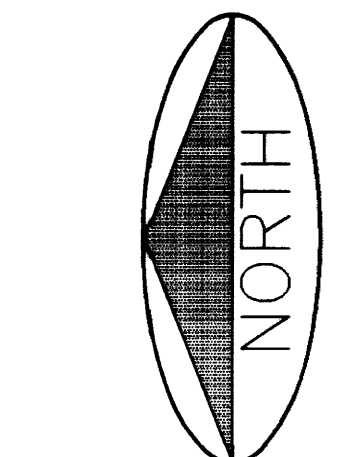
ROOM NO.	ROOM NAME	ROOM NO.	ROOM NAME
400E	CORRIDOR	442	WORK STATION
400SE	CORRIDOR	442A	LAB
400S	CORRIDOR	443	LAB
400SW	CORRIDOR	444	OFFICE
400W	CORRIDOR	445	WORK STATION
400NW	CORRIDOR	446A	LAB
400N	CORRIDOR	445	OFFICE
400NE	CORRIDOR	450	WORK STATION
401	INTERACTION	450A	LAB
402	JANITORS EQUIPMENT	452	WORK STATION
403	ELECTRIC ROOM	453A	LAB
406	CLERICAL	454	WORK STATION
410	GENERAL CONFERENCE	454	LAB
411	JANITORS CLOSET	456	OFFICE
413	ELECTRIC ROOM	458	INTERACTION
414	COFFEE/MEETING	459	OFFICE
415	COMMUNICATIONS ROOM	461	WORK STATION
416	LAB	461A	LAB
418	WOMENS TOILET	461B	LAB
422	INTERACTION	463	COLD ROOM
424	WORK STATION	464	ANTE ROOM
424A	LAB	464A	LOCKER
425	OFFICE	464B	VESTIBULE
426	LAB	464C	SHOWER
427	WORK STATION	464D	DECONTAMINATION
427A	LAB	464E	LAB
428	LAB	464F	LAB
428A	LAB	464G	LAB
429	SHARED EQUIPMENT	464H	LAB
430	OFFICE	464I	ANIMAL ROOM
432	INTERACTION	464K	VESTIBULE
434	WORK STATION	464L	LAB
434A	LAB	464M	DECONTAMINATION
435	OFFICE	464N	SHOWER
438	WORK STATION	464P	VESTIBULE
438A	LAB	464Q	LOCKER
440	OFFICE	464R	LAB



- CODED NOTES: DRAWING 10.1
- EXISTING ELECTRICAL EQUIPMENT TO REMAIN.
  - EXISTING LABORATORY PANELBOARD TO REMAIN.
  - DOWN TO RACEWAY AS REQUIRED.
  - FLUSH-MOUNTED TIME SWITCH IN CORRIDOR FOR ROOM LIGHTING CONTROL. INSTALL WITH CENTERLINE 5'-0" ABOVE FINISHED FLOOR.
  - REMOVE EXISTING LIGHTS AND SWITCHES IN LAB AREAS AS REQUIRED FOR INSTALLATION OF NEW WORK. TYPICAL
  - WORK IN THESE AREAS WILL BE BY ADD ALTERNATE REFER TO ARCHITECTS DRAWINGS AND SPECIFICATION.

LIGHTING PLAN - FOURTH FLOOR  
SCALE: 1/8" = 1'-0"

EXISTING MEDICAL SCIENCE BUILDING



RECORD DRAWINGS DATE 8/5/96  
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STAGGS & FISHER CONSULTING ENGINEERS, INC.

CHRISTIAN MILLER WOODFORD INC.  
ARCHITECTURE ENGINEERING PLANNING INTERIORS LANDSCAPE ARCHITECTURE  
100 S. BROADWAY SUITE 2000  
LEXINGTON, KY 40502

Staggs and Fisher, Inc.  
Consulting Engineers  
100 S. BROADWAY SUITE 2000  
LEXINGTON, KY 40502

PROFESSIONAL ENGINEER  
GREGORY CARTER  
100 S. BROADWAY SUITE 2000  
LEXINGTON, KY 40502

LIGHTING PLAN - FOURTH FLOOR

Medical Research Fit-up and Security System

University of Kentucky

Project No. 747.3

SHT. PROJECT TITLE

DATE: MAY 1996

DRAWN BY: WTB

CHECKED BY: GBC

REVISION:

DATE:

SHEET NUMBER

10.11

PROJECT NUMBER

DATE: 8/5/96

DATE: 8/5/96

DATE: 8/5/96

DATE: 8/5/96

DATE: 8/5/96

DATE: 8/5/96

DATE: 8/5/96

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DATE: 8/5/96

FINAL DOCUMENTS

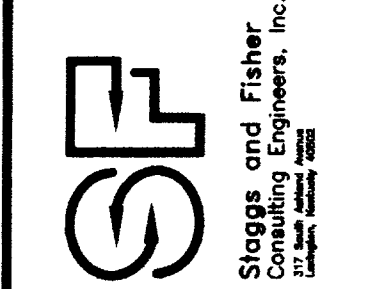




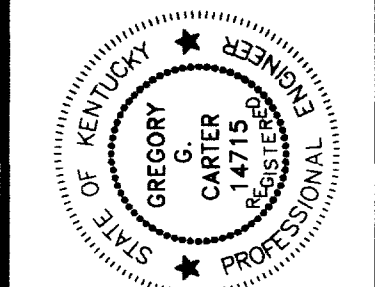


ROOM SCHEDULE:

MB-001	ANIMAL ROOM
MB-003	ANIMAL ROOM
MB-005	ANIMAL ROOM
MB-007	ANIMAL ROOM
MB-009	ANIMAL ROOM
MB-011	ANIMAL ROOM
MB-013	ANIMAL ROOM
MB-014	COORIDOR
MB-014A	TOILET
MB-014B	TOILET
MB-015	SHOWER
MB-016	JANITOR
MB-017	HOUSEKEEPING
MB-017A	VESTIBULE
MB-017B	ANIMAL ROOM
MB-018	ANIMAL ROOM
MB-019	MECHANICAL ROOM
MB-020	STORAGE
MB-021	CORRIDOR
MB-022	OFFICE
MB-023	WOMEN'S LOCKER
MB-023A	SHOWER
MB-023B	TOILET
MB-024	PREP
MB-024A	SURGERY #4
MB-024B	SURGERY #3
MB-024C	SCRUB
MB-025	OFFICE
MB-026	RECOVERY
MB-026A	RECOVERY
MB-027	PREP
MB-027A	SURGERY #1
MB-027B	SURGERY #2
MB-027C	SCRUB
MB-028	DECONTAMINATION
MB-028A	STERILE PROCESSING
MB-028B	RECOVERY
MB-029	RECOVERY
MB-029A	RECOVERY
MB-030	EQUIP. STORAGE
MB-031	COORIDOR
MB-032	MECHANICAL

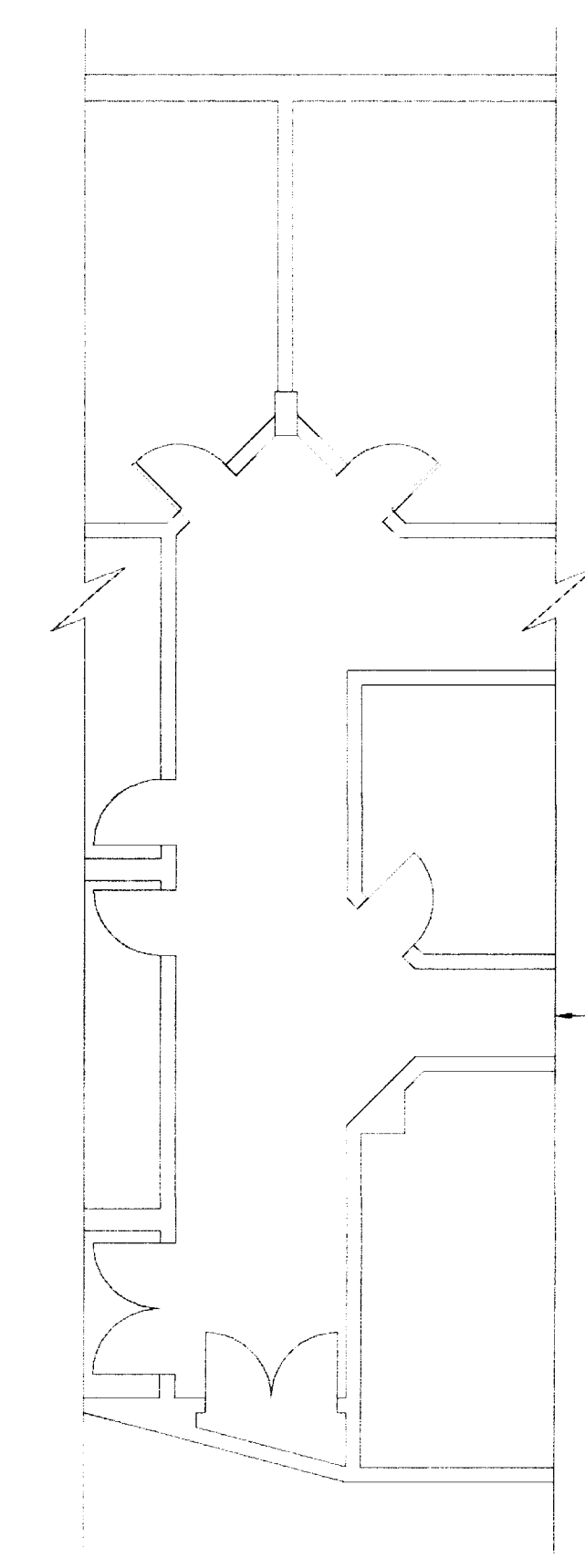
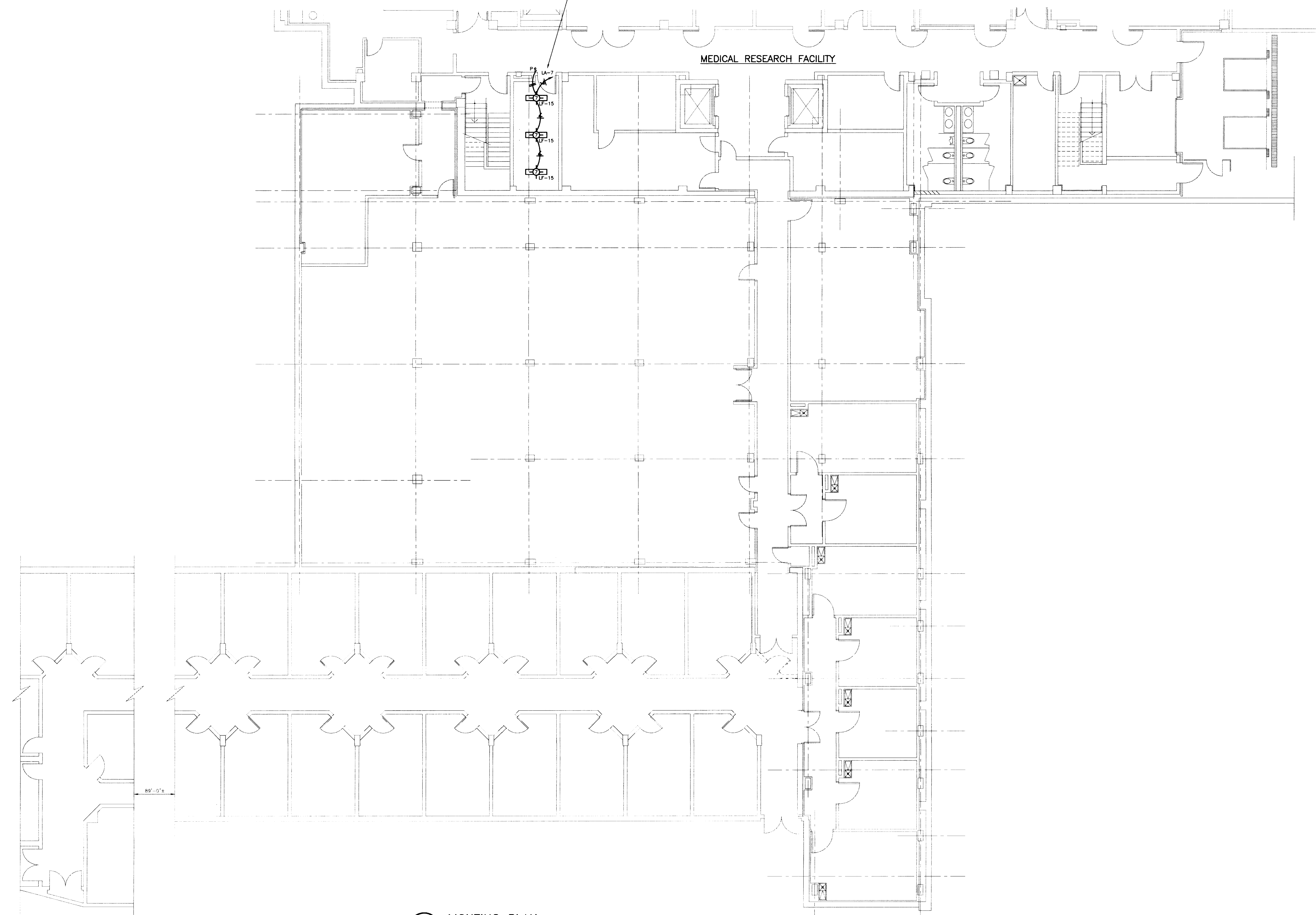


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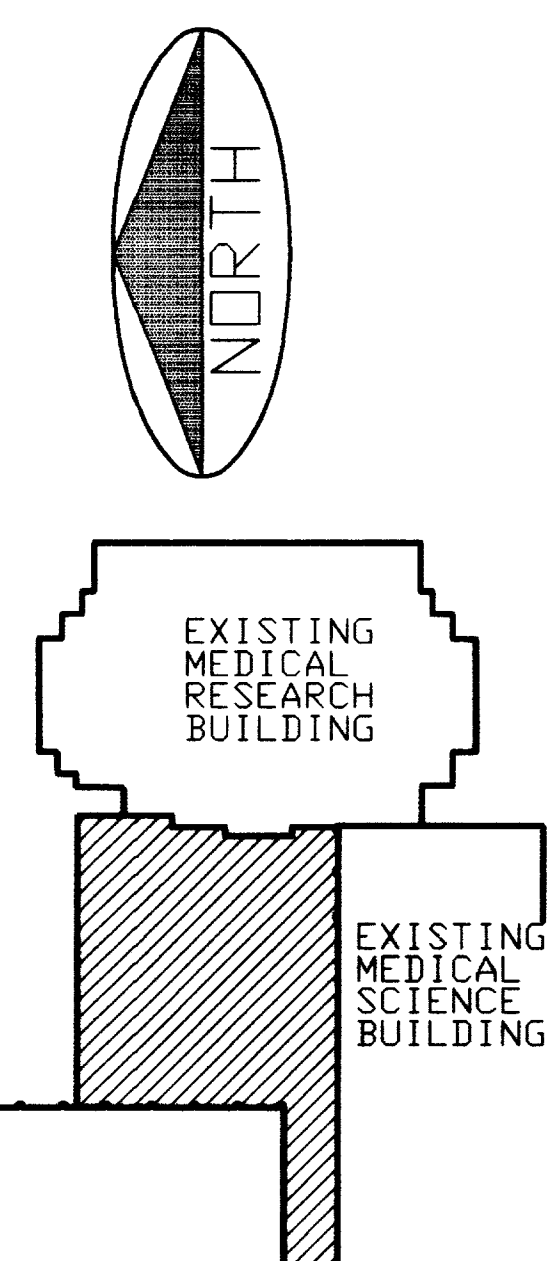
REMOVE EXISTING LIGHTING, CONDUIT, DEVICES ETC. IN THIS SPACE. PATCH WALLS AND INSTALL NEW WORK IN ACCORDANCE WITH NEC EXPLOSION-PROOF CLASS 1, DIVISION 2A REQUIREMENTS.

MEDICAL RESEARCH FACILITY



**LIGHTING PLAN**  
SCALE: 1/8" = 1'-0"

KEY PLAN



RECORD DRAWINGS DATE 8/5/96  
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STAGGS & FISHER CONSULTING ENGINEERS, INC.

LIGHTING PLAN  
Medical Research Fit-up and Security System  
University of Kentucky  
Project No. 747.3

INT.	PROJECT TITLE
DATE	MAY 1996
DRAWN BY	WTS
CHECKED BY	GGC
REVISED	
DATE	1
	2
	3
	4
SHEET NUMBER	10.13
PROJECT NUMBER	



ROOM SCHEDULE	
MB-001	ANIMAL ROOM
MB-003	ANIMAL ROOM
MB-005	COORDINATOR
MB-007	ANIMAL ROOM
MB-009	ANIMAL ROOM
MB-011	ANIMAL ROOM
MB-013	COORDINATOR
MB-014	MEN'S TOILET
MB-014A	TOILET
MB-014B	SHOWER
MB-015	JANTOP
MB-016	HOUSEKEEPING
MB-017	VESTIBULE
MB-017A	ANIMAL ROOM
MB-017B	ANIMAL ROOM
MB-018	CLINICAL ROOM
MB-019	MECHANICAL ROOM
MB-020	STORAGE
MB-021	CORRIDOR
MB-022	OFFICE
MB-023	WOMEN'S LOCKER
MB-023A	TOILET
MB-023B	SHOWER
MB-024	PREP
MB-024A	SURGERY #1
MB-024B	SURGERY #2
MB-024C	SURB
MB-025	OFFICE
MB-026	RECOVERY
MB-026A	RECOVERY
MB-027	PREP
MB-027A	SURGERY #1
MB-027B	SURGERY #2
MB-027C	SURB
MB-028	DECONTAMINATION
MB-028A	STERILE PROCESSING
MB-029	RECOVERY
MB-029A	RECOVERY
MB-030	EQUIP. STORAGE
MB-031	CORRIDOR
MB-032	MECHANICAL

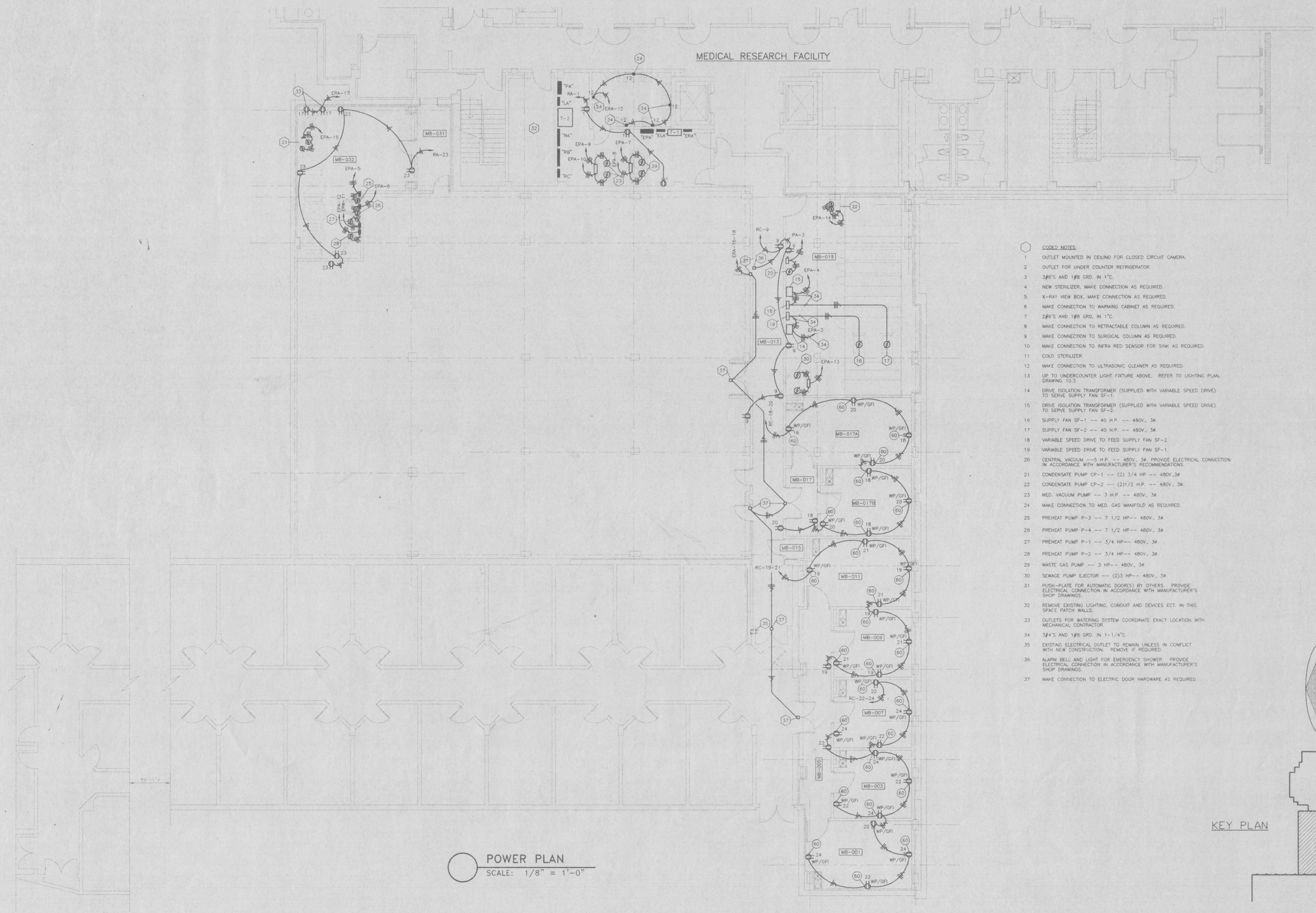
**CJM**  
 CHAPMAN MILLER WOODRUFF INC.  
 ARCHITECTURE ENGINEERING PLANNING INTERIORS LANDSCAPE ARCHITECTURE  
 328 S. BROADWAY  
 LEWISTON, KENTUCKY 40368  
 606-824-9333

**SF**  
 Stoggs and Fisher, Inc.  
 1000 W. Main Street  
 Louisville, KY 40203  
 502-582-1111

FAILURE TO ABIDE BY THE TERMS OF THIS AGREEMENT SHALL BE DEEMED A WAIVER OF ALL RIGHTS AND REMEDIES UNDER THIS AGREEMENT AND SHALL BE DEEMED AN IRREVOCABLE AND EXCLUSIVE ASSIGNMENT OF ALL RIGHTS AND REMEDIES UNDER THIS AGREEMENT TO THE ARCHITECT.

OF KENTUCKY  
 CHARTERED  
 PROFESSIONAL ENGINEER  
 No. 10000  
 U. J. WOODRUFF

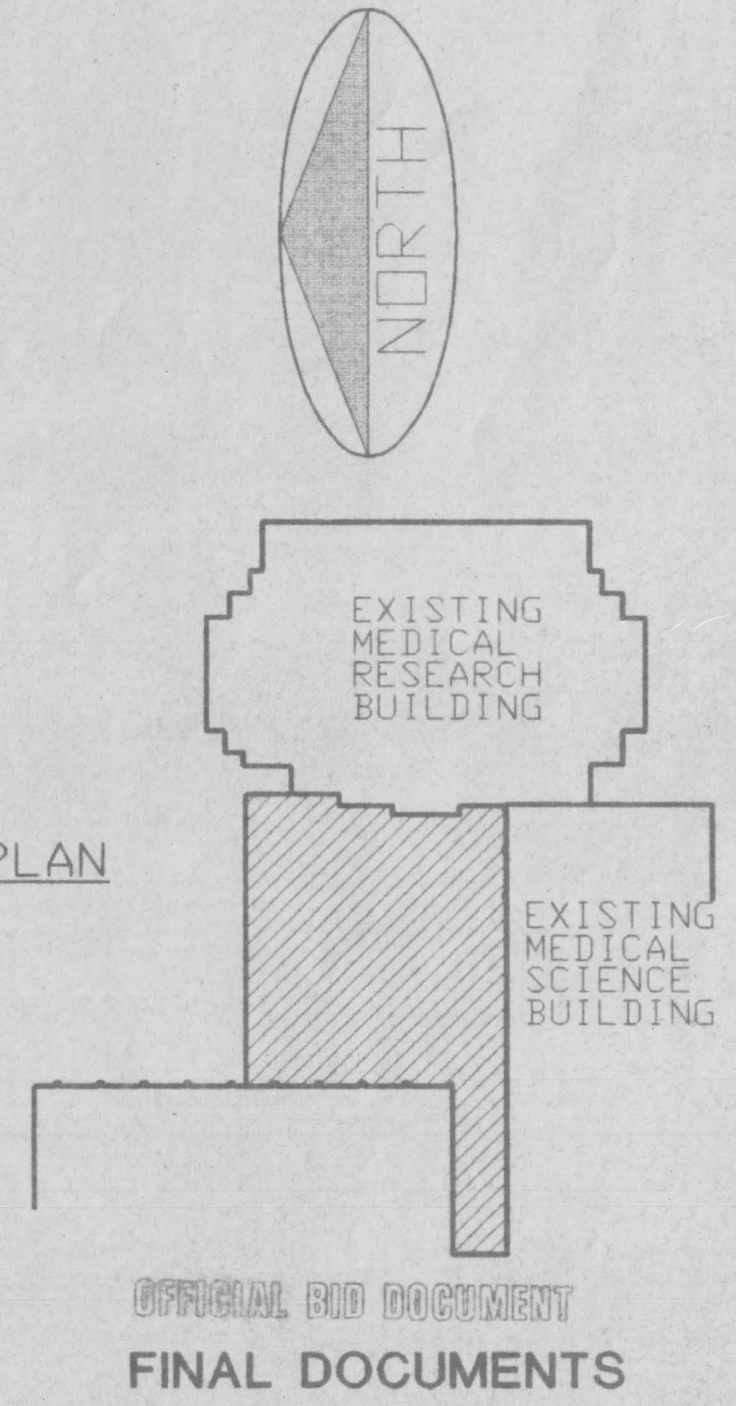
MEDICAL RESEARCH FACILITY



- CODED NOTES:**
1. OUTLET MOUNTED IN CEILING FOR CLOSED CIRCUIT CAMERA.
  2. OUTLET FOR UNDER COUNTER REFRIGERATOR.
  3. 3/8" AND 1/8" GRD. IN 1" C.
  4. NEW STERILIZER, MAKE CONNECTION AS REQUIRED.
  5. X-RAY VIEW BOX, MAKE CONNECTION AS REQUIRED.
  6. MAKE CONNECTION TO WARMING CABINET AS REQUIRED.
  7. 2/8" AND 1/8" GRD. IN 1" C.
  8. MAKE CONNECTION TO RETRACTABLE COLUMN AS REQUIRED.
  9. MAKE CONNECTION TO SURGICAL COLUMN AS REQUIRED.
  10. MAKE CONNECTION TO INFRARED SENSOR FOR SINK AS REQUIRED.
  11. COLD STERILIZER.
  12. MAKE CONNECTION TO ULTRASONIC CLEANER AS REQUIRED.
  13. UP TO UNDERCOUNTER LIGHT FIXTURE ABOVE. REFER TO LIGHTING PLAN, DRAWING 10.3.
  14. DRIVE ISOLATION TRANSFORMER (SUPPLIED WITH VARIABLE SPEED DRIVE) TO SERVE SUPPLY FAN SF-1.
  15. DRIVE ISOLATION TRANSFORMER (SUPPLIED WITH VARIABLE SPEED DRIVE) TO SERVE SUPPLY FAN SF-2.
  16. SUPPLY FAN SF-1 -- 40 H.P. -- 480V, 3ø.
  17. SUPPLY FAN SF-2 -- 40 H.P. -- 480V, 3ø.
  18. VARIABLE SPEED DRIVE TO FEED SUPPLY FAN SF-2.
  19. VARIABLE SPEED DRIVE TO FEED SUPPLY FAN SF-1.
  20. CENTRAL VACUUM -- 5 H.P. -- 480V, 3ø. PROVIDE ELECTRICAL CONNECTION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
  21. CONDENSATE PUMP CP-1 -- (2) 3/4 H.P. -- 480V, 3ø.
  22. CONDENSATE PUMP CP-2 -- (2) 1/2 H.P. -- 480V, 3ø.
  23. MED. VACUUM PUMP -- 3 H.P. -- 480V, 3ø.
  24. MAKE CONNECTION TO MED. GAS MANIFOLD AS REQUIRED.
  25. PREHEAT PUMP P-3 -- 7 1/2 H.P. -- 480V, 3ø.
  26. PREHEAT PUMP P-4 -- 7 1/2 H.P. -- 480V, 3ø.
  27. PREHEAT PUMP P-1 -- 3/4 H.P. -- 480V, 3ø.
  28. PREHEAT PUMP P-2 -- 3/4 H.P. -- 480V, 3ø.
  29. WASTE GAS PUMP -- 3 H.P. -- 480V, 3ø.
  30. SEWAGE PUMP EJECTOR -- (2) 3 H.P. -- 480V, 3ø.
  31. PUSH-PLATE FOR AUTOMATIC DOORS) BY OTHERS. PROVIDE ELECTRICAL CONNECTION IN ACCORDANCE WITH MANUFACTURER'S SHOP DRAWINGS.
  32. REMOVE EXISTING LIGHTING, CONDUIT AND DEVICES ECT. IN THIS SPACE PATCH WALLS.
  33. OUTLETS FOR WATERING SYSTEM COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
  34. 3/8" AND 1/8" GRD. IN 1-1/4" C.
  35. EXISTING ELECTRICAL OUTLET TO REMAIN UNLESS IN CONFLICT WITH NEW CONSTRUCTION. REMOVE IF REQUIRED.
  36. ALARM BELL AND LIGHT FOR EMERGENCY SHOWER. PROVIDE ELECTRICAL CONNECTION IN ACCORDANCE WITH MANUFACTURER'S SHOP DRAWINGS.
  37. MAKE CONNECTION TO ELECTRIC DOOR HARDWARE AS REQUIRED.

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

KEY PLAN

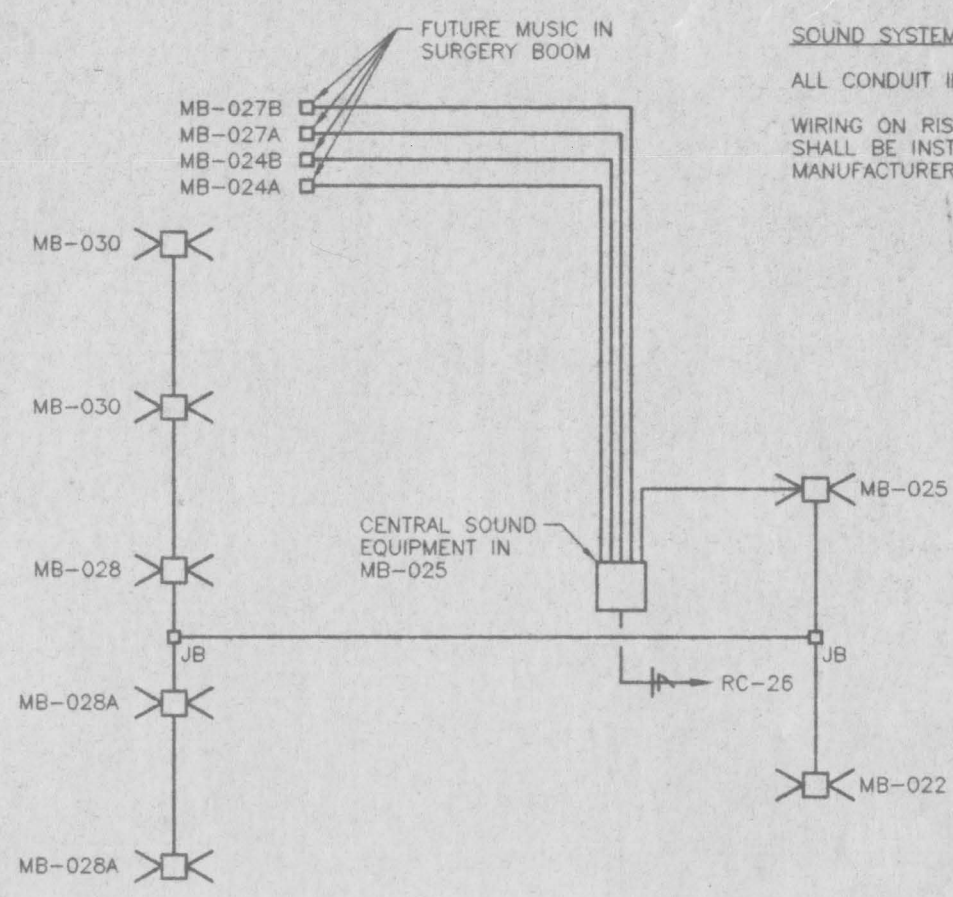


SHT.	PROJECT TITLE
DATE	MAY 1985
DRAWN BY	WTG
CHECKED BY	OGC
REVISED	
DATE	
SHEET NUMBER	10.14
PROJECT NUMBER	

POWER PLAN  
 Medical Research Fit-up and Security System  
 University of Kentucky  
 Project No. 747.3

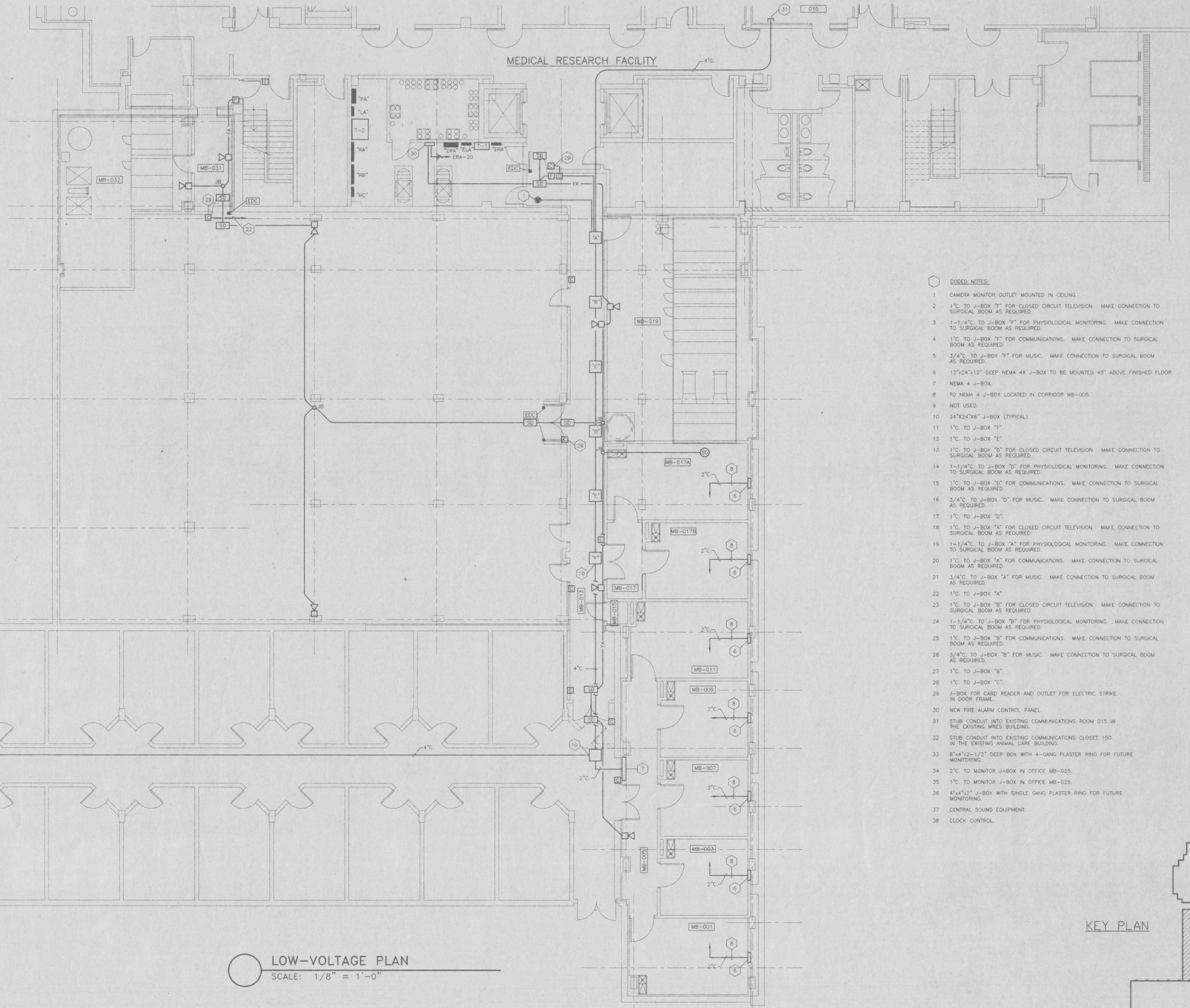
OFFICIAL AND AUTHORITY  
 FINAL DOCUMENTS





**SOUND SYSTEM NOTES:**  
 ALL CONDUIT IN SOUND SYSTEM SHALL BE 3/4" SIZE, EXCEPT AS OTHERWISE NOTED.  
 WIRING ON RISER DIAGRAM IS FOR BID PURPOSES ONLY. ALL WIRING AND CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH WIRING DIAGRAMS OBTAINED FROM THE MANUFACTURER.

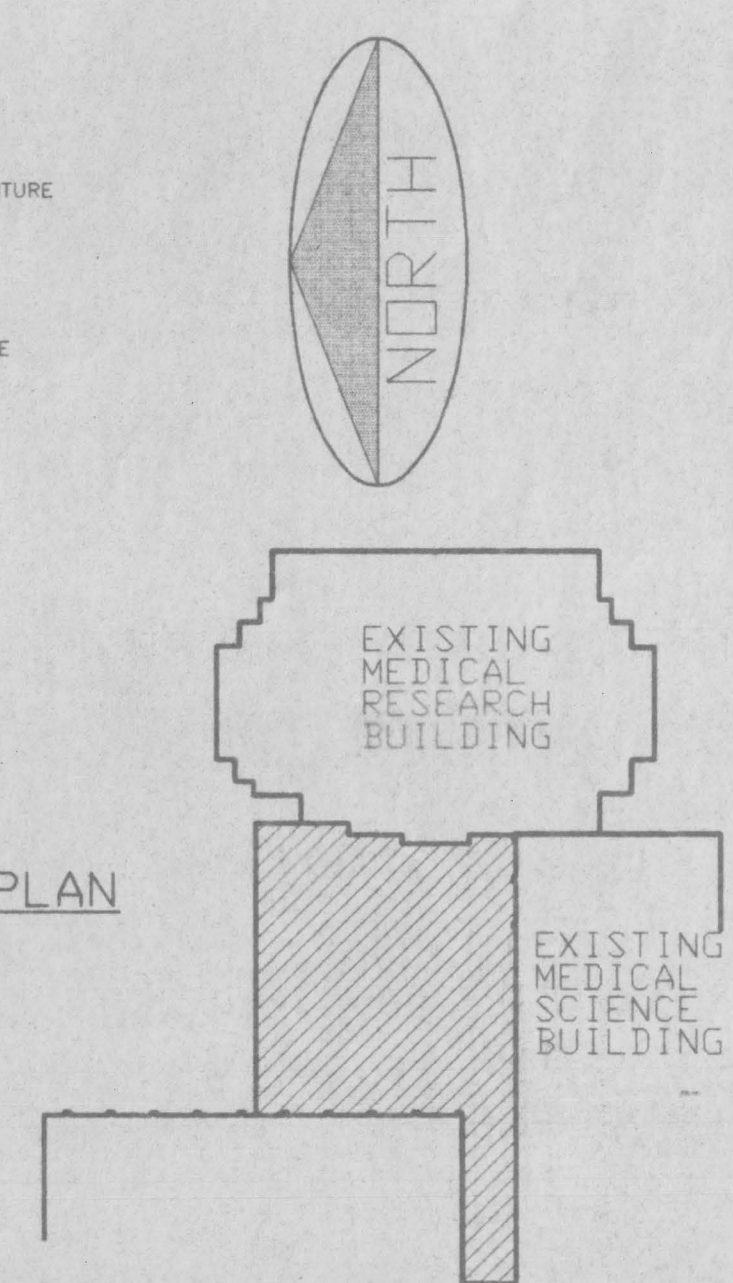
**SOUND SYSTEM RISER DIAGRAM**  
 NO SCALE



- CODED NOTES:**
- CAMERA MONITOR OUTLET MOUNTED IN CEILING.
  - 1" C. TO J-BOX "T" FOR CLOSED CIRCUIT TELEVISION. MAKE CONNECTION TO SURGICAL BOOM AS REQUIRED.
  - 1-1/4" C. TO J-BOX "T" FOR PHYSIOLOGICAL MONITORING. MAKE CONNECTION TO SURGICAL BOOM AS REQUIRED.
  - 1" C. TO J-BOX "T" FOR COMMUNICATIONS. MAKE CONNECTION TO SURGICAL BOOM AS REQUIRED.
  - 3/4" C. TO J-BOX "T" FOR MUSIC. MAKE CONNECTION TO SURGICAL BOOM AS REQUIRED.
  - 12"x24"x12" DEEP NEMA 4X J-BOX TO BE MOUNTED 48" ABOVE FINISHED FLOOR.
  - NEMA 4 J-BOX.
  - TO NEMA 4 J-BOX LOCATED IN CORRIDOR MB-005.
  - NOT USED.
  - 24"x24"x6" J-BOX (TYPICAL).
  - 1" C. TO J-BOX "T".
  - 1" C. TO J-BOX "E".
  - 1" C. TO J-BOX "D" FOR CLOSED CIRCUIT TELEVISION. MAKE CONNECTION TO SURGICAL BOOM AS REQUIRED.
  - 1-1/4" C. TO J-BOX "A" FOR PHYSIOLOGICAL MONITORING. MAKE CONNECTION TO SURGICAL BOOM AS REQUIRED.
  - 1" C. TO J-BOX "D" FOR COMMUNICATIONS. MAKE CONNECTION TO SURGICAL BOOM AS REQUIRED.
  - 3/4" C. TO J-BOX "D" FOR MUSIC. MAKE CONNECTION TO SURGICAL BOOM AS REQUIRED.
  - 1" C. TO J-BOX "D".
  - 1" C. TO J-BOX "A" FOR CLOSED CIRCUIT TELEVISION. MAKE CONNECTION TO SURGICAL BOOM AS REQUIRED.
  - 1-1/4" C. TO J-BOX "A" FOR PHYSIOLOGICAL MONITORING. MAKE CONNECTION TO SURGICAL BOOM AS REQUIRED.
  - 1" C. TO J-BOX "A" FOR COMMUNICATIONS. MAKE CONNECTION TO SURGICAL BOOM AS REQUIRED.
  - 3/4" C. TO J-BOX "A" FOR MUSIC. MAKE CONNECTION TO SURGICAL BOOM AS REQUIRED.
  - 1" C. TO J-BOX "A".
  - 1" C. TO J-BOX "B" FOR CLOSED CIRCUIT TELEVISION. MAKE CONNECTION TO SURGICAL BOOM AS REQUIRED.
  - 1-1/4" C. TO J-BOX "B" FOR PHYSIOLOGICAL MONITORING. MAKE CONNECTION TO SURGICAL BOOM AS REQUIRED.
  - 1" C. TO J-BOX "B" FOR COMMUNICATIONS. MAKE CONNECTION TO SURGICAL BOOM AS REQUIRED.
  - 3/4" C. TO J-BOX "B" FOR MUSIC. MAKE CONNECTION TO SURGICAL BOOM AS REQUIRED.
  - 1" C. TO J-BOX "B".
  - 1" C. TO J-BOX "C".
  - J-BOX FOR CARD READER AND OUTLET FOR ELECTRIC STRIKE IN DOOR FRAME.
  - NEW FIRE ALARM CONTROL PANEL.
  - STUB CONDUIT INTO EXISTING COMMUNICATIONS ROOM 015 IN THE EXISTING MRES BUILDING.
  - STUB CONDUIT INTO EXISTING COMMUNICATIONS CLOSET 150 IN THE EXISTING ANIMAL CARE BUILDING.
  - 8"x4"x2-1/2" DEEP BOX WITH 4-GANG PLASTER RING FOR FUTURE MONITORING.
  - 2" C. TO MONITOR J-BOX IN OFFICE MB-025.
  - 1" C. TO MONITOR J-BOX IN OFFICE MB-025.
  - 4"x4"x2" J-BOX WITH SINGLE GANG PLASTER RING FOR FUTURE MONITORING.
  - CENTRAL SOUND EQUIPMENT.
  - CLOCK CONTROL.

**LOW-VOLTAGE PLAN**  
 SCALE: 1/8" = 1'-0"

**KEY PLAN**



**ROOM SCHEDULE**

MB-001	ANIMAL ROOM
MB-002	CORRIDOR
MB-003	ANIMAL ROOM
MB-004	ANIMAL ROOM
MB-005	ANIMAL ROOM
MB-006	CORRIDOR
MB-007	TOILET
MB-008	TOILET
MB-009	TOILET
MB-010	TOILET
MB-011	TOILET
MB-012	TOILET
MB-013	TOILET
MB-014	TOILET
MB-015	TOILET
MB-016	TOILET
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MB-022	TOILET
MB-023	TOILET
MB-024	TOILET
MB-025	TOILET
MB-026	TOILET
MB-027	TOILET
MB-028	TOILET
MB-029	TOILET
MB-030	TOILET
MB-031	TOILET
MB-032	TOILET

**CJMW**  
 MILLER WOODFORD INC.  
 CHRISTIAN COUNTY, MISSOURI  
 800 234-8222

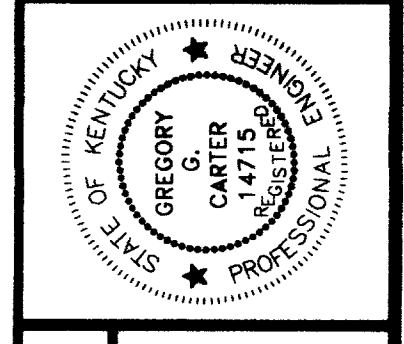
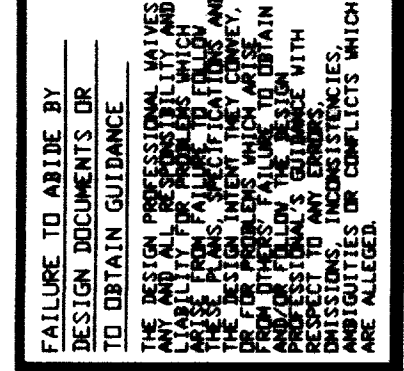
**SF**  
 Stoggs and Fisher, Inc.  
 PROJECT ARCHITECTS  
 11TH FLOOR  
 308 S. BROADWAY  
 COVINGTON, MISSOURI 65016

**LOW-VOLTAGE PLAN**  
**Medical Research Fit-up and Security System**  
**University of Kentucky**  
**Project No. 747.3**

SHT.	PROJECT TITLE
DATE	MAY 1995
DRAWN BY	WTG
CHECKED BY	GOC
REVISED	
DATE	
SHEET NUMBER	10.15
PROJECT NUMBER	

OFFICIAL BID DOCUMENT  
 FINAL DOCUMENTS

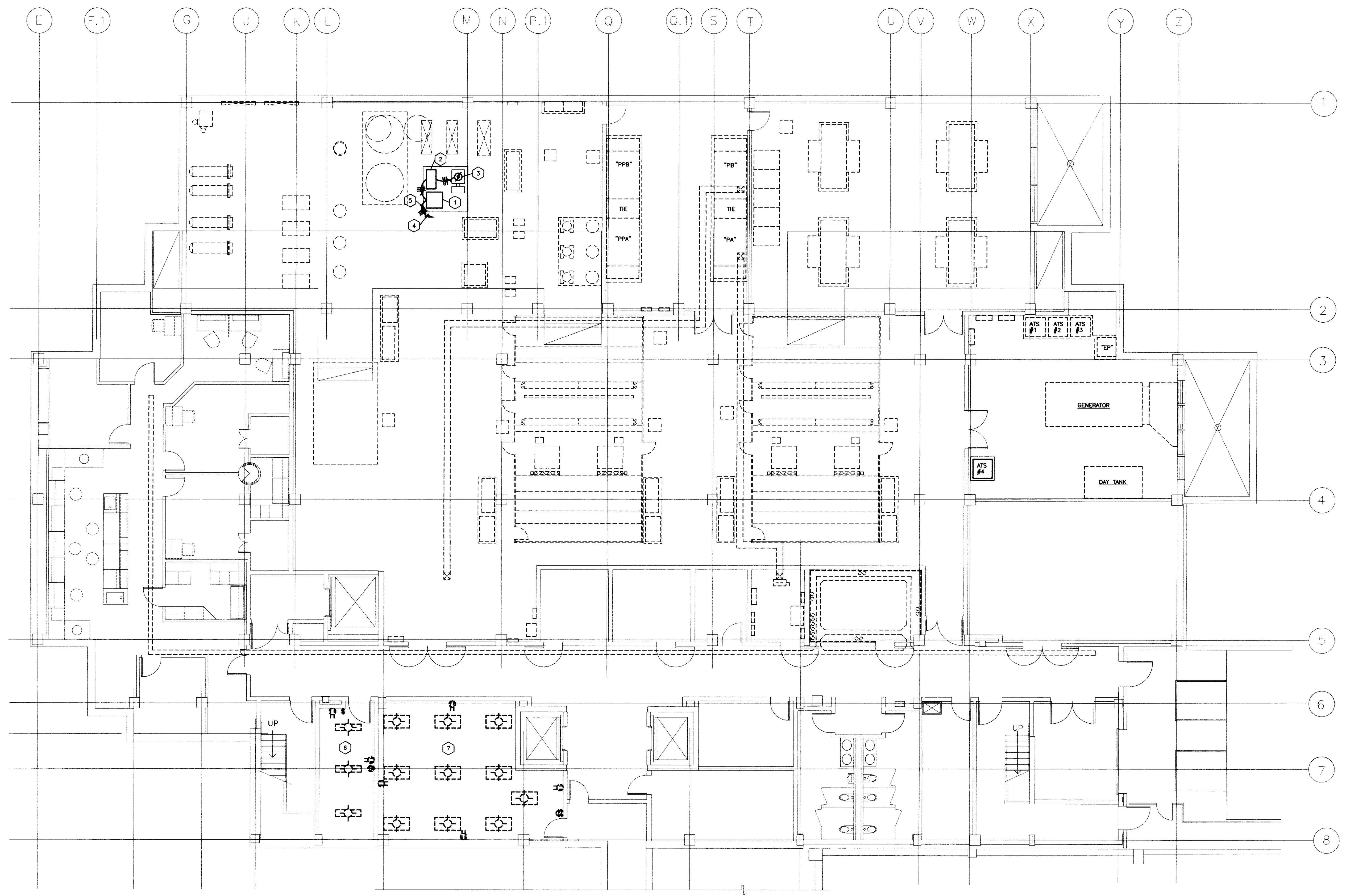




**ELECTRICAL DISTRIBUTION RISER**  
**Medical Research Fit-up and Security System**  
**University of Kentucky**  
**Project No. 747.3**

SHT. PROJECT TITLE  
 DATE: MARCH 1996  
 DRAWN BY: WTB  
 CHECKED BY: GBC  
 REVISION:  
 DATE:  
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 2  
 3  
 4

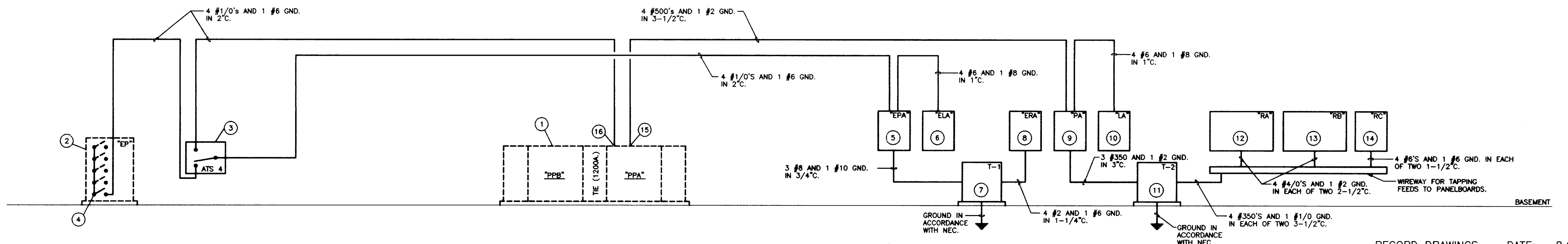
SHEET NUMBER  
**10.21**  
 PROJECT NUMBER



- DISTRIBUTION NOTES:**
- ISOLATION TRANSFORMER. PROVIDE ELECTRICAL CONNECTION IN ACCORDANCE WITH MANUFACTURER'S SHOP DRAWINGS. INSTALL ON 3" CONCRETE PAD.
  - VERSILE FREQUENCY DRIVE. PROVIDE ELECTRICAL CONNECTION IN ACCORDANCE WITH MANUFACTURER'S SHOP DRAWINGS. INSTALL ON 3" CONCRETE PAD.
  - 75 H.P. 480V. 3Ø CHILLED WATER PUMP.
  - TO NEW 150A BREAKER IN EXISTING SWITCHBOARD "PPB" AS REQUIRED.
  - 3 #1'S AND 1 #6 GRD. IN 1-1/2"Ø.
  - REMOVE EXISTING LIGHTS, DEVICES, ECT. PATCH WALLS AS REQUIRED.
  - REMOVE EXISTING LIGHT FIXTURES AS REQUIRED.

- DISTRIBUTION NOTES:**
- EXISTING 480/277V. DOUBLE ENDED SWITCHBOARD --- ROOM 003C
  - EXISTING 1600A, 480/277V. EMERGENCY SWITCHBOARD "EP" --- ROOM 003A
  - NEW 150A/3P, 480/277V. AUTOMATIC TRANSFER SWITCH #1 --- ROOM 003A
  - PROVIDE NEW 150A/3-POLE SWITCH IN EXISTING SWITCHBOARD "EP".
  - 480/277V. EMERGENCY DISTRIBUTION PANELBOARD "EPA" --- ROOM 006.
  - 480/277V. EMERGENCY DISTRIBUTION PANELBOARD "ELA" --- ROOM 006
  - 3Ø 480V. PRIMARY, 208/120V. "Y" SECONDARY STEP-DOWN TRANSFORMER T-1. --- ROOM 006
  - 208/120V. EMERGENCY DISTRIBUTION PANELBOARD "ERA" --- ROOM 006
  - 500A 480/277V. DISTRIBUTION PANELBOARD "PA" --- ROOM 006.
  - 480/277V. PANELBOARD "LA" --- ROOM 006
  - 225 KVA, 480V. PRIMARY, 208/120V. "Y" SECONDARY STEP-DOWN TRANSFORMER T-2. --- ROOM 006
  - 208/120V. PANELBOARD "RA" --- ROOM 006
  - 208/120V. PANELBOARD "RB" --- ROOM 006.
  - 208/120V. PANELBOARD "RC" --- ROOM 006.
  - INSTALL NEW 400A BREAKER IN EXISTING SWITCHBOARD "PPA". REARRANGE EXISTING BREAKERS AS REQUIRED TO WORK WITH NEW SYSTEM.
  - INSTALL NEW 150A BREAKER IN EXISTING SWITCHBOARD "PPA". REARRANGE EXISTING BREAKERS AS REQUIRED TO WORK WITH NEW SYSTEM.

**NOTES: ELECTRICAL DISTRIBUTION SYSTEM RISER DIAGRAM**  
 NEW FLUSH-MOUNTED PANELBOARD SHALL BE PROVIDED WITH FOUR (4) 3/4" SPARE CONDUITS CONCEALED IN WALL TO CEILING SPACE. TURN OUT 4" FROM WALL AND CAP.  
 INSTALL PANELBOARDS WITH TOP 6'-6" ABOVE FINISHED FLOOR.  
 INSTALL SECONDARY UNDERGROUND CONDUCTORS A MINIMUM OF 36" DEEP TO TOP OF CONDUIT OR ENCASMENT.  
 ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.

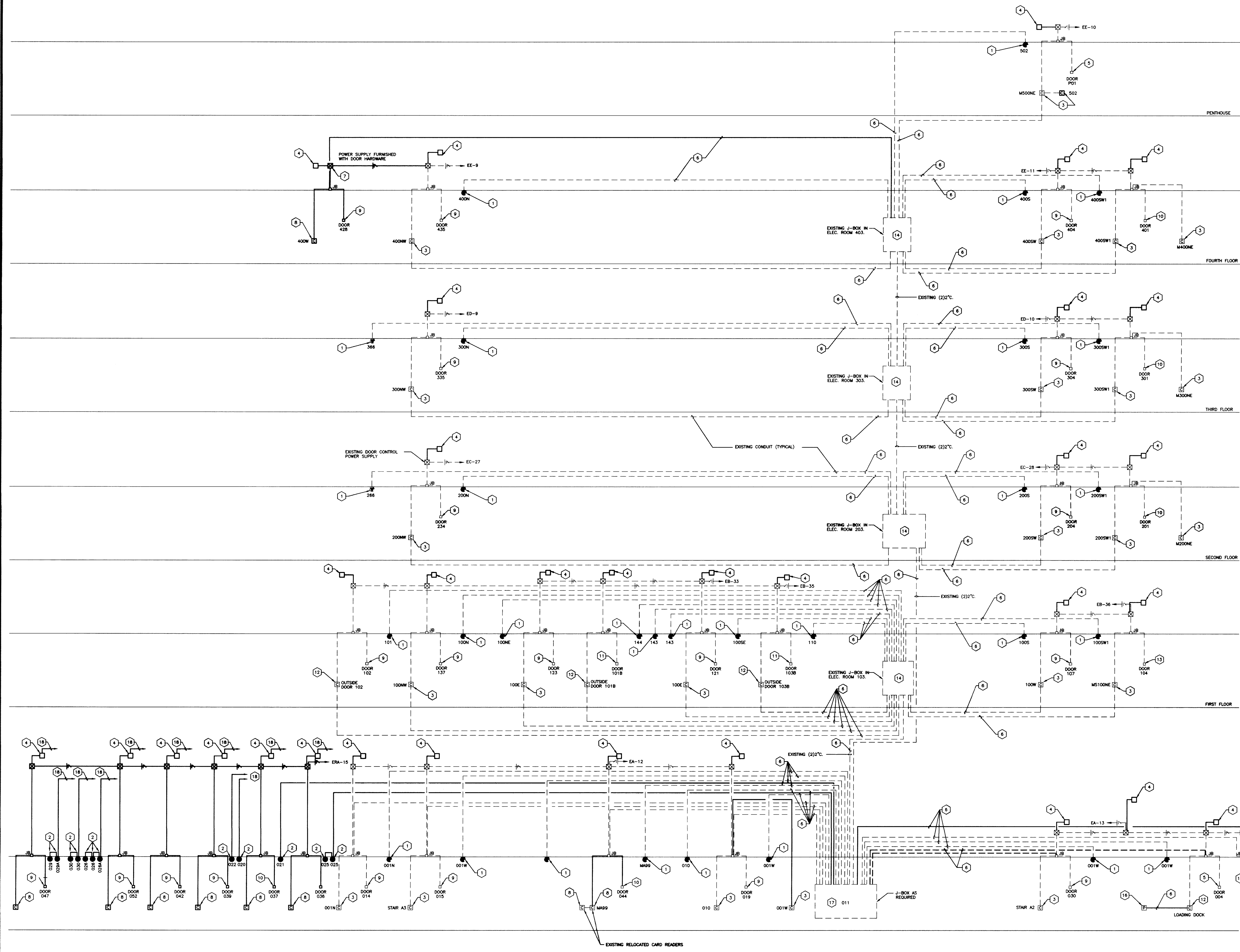
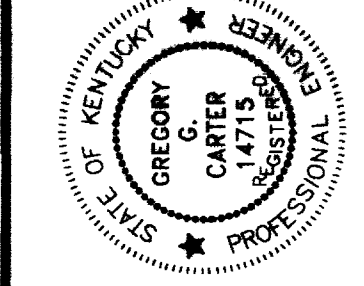
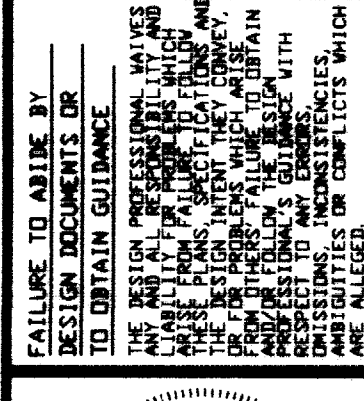


**ELECTRICAL DISTRIBUTION SYSTEM RISER DIAGRAM**

NO SCALE

RECORD DRAWINGS DATE 8/5/96  
 These record drawings have been prepared, in part, on the basis of information compiled and furnished by others. The Engineer will not be responsible for any errors or omissions which have been incorporated into this document as a result.  
 STAGGS & FISHER CONSULTING ENGINEERS, INC.





- GENERAL NOTES:**
- 1 ALL CONDUIT IS EXISTING, CONTINUOUS IS NEW.
  - 2 ALL CONDUIT SHALL BE MINIMUM 3/4" IN SIZE, UNLESS NOTED OTHERWISE.
  - 3 ALL SECURITY SYSTEM WIRING SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SHOP DRAWINGS.
  - 4 VERIFY EXACT LOCATION OF ALL EXISTING CONDUIT, JUNCTION BOXES, ETC.
  - 5 EXISTING DOOR HARDWARE IS ELECTRIC WITH KEY SWITCHES TO ENERGIZE. REMOVE EXISTING KEY SWITCHES AND INSTALL NEW SECURITY AS INDICATED. TURN SWITCHES OVER TO THE OWNER.
  - 6 EXISTING WIRING MAY BE REUSED IF CONDUCTORS ARE ADEQUATE FOR THE NEW INSTALLATION.
  - 7 COORDINATE ALL CONNECTIONS TO DOOR EQUIPMENT, POWER SUPPLIES, HINGES, BOLTS, EMERGENCY LOCKS, ETC., WITH THE HARDWARE SUPPLIER.
- CODED NOTES: SECURITY RISER DIAGRAM**
- 1 INSTALL NEW CAMERA ON EXISTING ROUGH-IN.
  - 2 INSTALL NEW CAMERA OUTLET, CONDUIT AND CAMERA. PROVIDE CABLING TO ROOM 011 AS REQUIRED.
  - 3 REMOVE EXISTING SWITCHES AND INSTALL NEW CARD READER.
  - 4 INSTALL NEW READER INTERFACE PANEL. MAKE CONNECTION TO DOOR EQUIPMENT AS REQUIRED.
  - 5 EXISTING DOOR WITH MAGNET LOCK AND HINGE SWITCH.
  - 6 INSTALL CABLING FOR SECURITY AND CAMERAS AS REQUIRED BY SECURITY SYSTEM MANUFACTURER.
  - 7 NEW POWER SUPPLY SUPPLIED WITH DOOR HARDWARE.
  - 8 INSTALL NEW CARD READER AS INDICATED.
  - 9 EXISTING DOOR WITH ELECTRIC LOCK, BOLT POSITION SWITCH AND HINGE SWITCH.
  - 10 EXISTING DOOR WITH AUTOMATIC OPERATOR, MAGNET LOCK, HINGE SWITCH, BOLT POSITION SWITCH AND MANUAL OVERRIDE SWITCH INTERFACED TO FIRE ALARM TO UNLOCK ON ALARM.
  - 11 EXISTING DOOR WITH ELECTRIC LOCK, BOLT POSITION SWITCH, HINGE SWITCH AND AUTOMATIC OPERATOR.
  - 12 INSTALL NEW EXTERIOR CARD READER AS REQUIRED.
  - 13 EXISTING DOOR WITH ELECTRIC LOCK, BOLT POSITION SWITCH, HINGE CONTACT AND HOLD OPEN INTERFACED WITH DOOR TO RELEASE DOOR ON ALARM.
  - 14 INSTALL NEW SECURITY DEVICE IN EXISTING CLOSET AS REQUIRED.
  - 15 INSTALL NEW DOOR MONITOR CONTACTS ON EXISTING OVERHEAD DOOR AND MONITOR ON NEW SECURITY.
  - 16 INSTALL NEW ROUGH-IN AND EGRESS PUSHBUTTON FOR EXISTING DOOR.
  - 17 LOCATE CENTRAL SECURITY AND VIDEO MONITORING IN THIS SPACE.
  - 18 EXTEND TO JUNCTION BOX IN ROOM 011 AS REQUIRED.

### SECURITY SYSTEM RISER DIAGRAM

NO SCALE

RECORD DRAWINGS DATE 8/5/96

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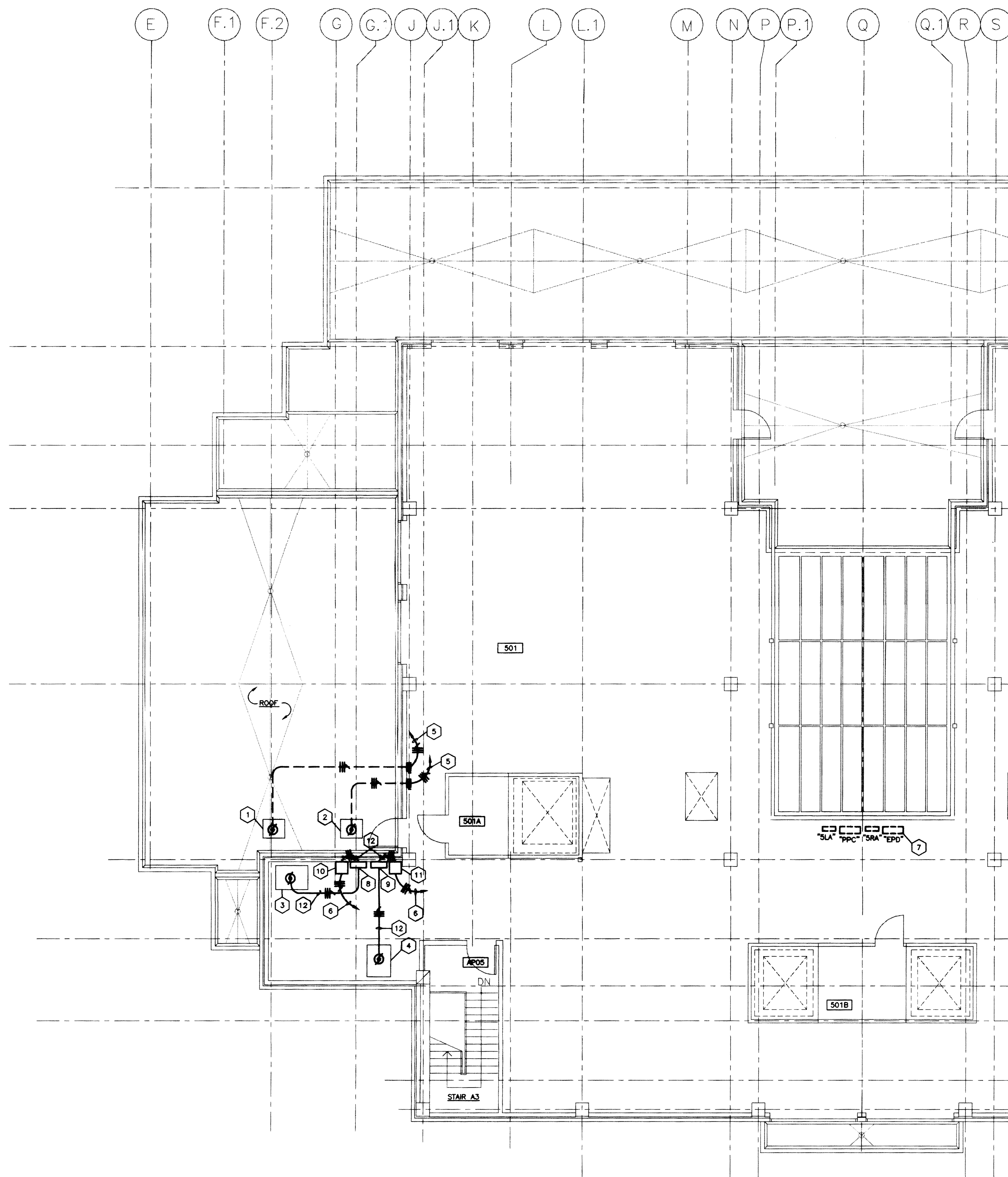
STAGGS & FISHER CONSULTING ENGINEERS, INC.

SECURITY SYSTEM RISER DIAGRAM  
Medical Research Fit-up and Security System  
University of Kentucky  
Project No. 747.3

DATE	DECEMBER 1994
DRAWN BY	WFS
CHECKED BY	GBC
REVIEWED	
DATE	
SHEET NUMBER	10.22
PROJECT NUMBER	



- CODED NOTES:
- 1 EXHAUST FAN EF-1 ON ROOF --- 480V, 3ø --- 10 H.P.
  - 2 EXHAUST FAN EF-2 ON ROOF --- 480V, 3ø --- 10 H.P.
  - 3 EXHAUST FAN EF-3 IN PENTHOUSE --- 480V, 3ø --- 20 H.P.
  - 4 EXHAUST FAN EF-4 IN PENTHOUSE --- 480V, 3ø --- 20 H.P.
  - 5 TO NEW 20A/3P. CIRCUIT BREAKER IN EXISTING PANELBOARD "EPD".
  - 6 3 #8's AND 1 #10 GND. IN 3/4". TO NEW 40A/3P. CIRCUIT BREAKER IN EXISTING PANELBOARD "EPD".
  - 7 EXISTING SQUARE "D" I-LINE PANELBOARD "EPD" --- 277/480V, 3ø. FURNISH AND INSTALL THE FOLLOWING NEW CIRCUIT BREAKERS IN EXISTING PANELBOARD: (2) 40A/3P. AND (2) 20A/3P.
  - 8 VARIABLE SPEED DRIVE TO FEED EXHAUST FAN EF-3 ON ROOF.
  - 9 VARIABLE SPEED DRIVE TO FEED EXHAUST FAN EF-4 ON ROOF.
  - 10 DRIVE ISOLATION TRANSFORMER (SUPPLIED WITH VARIABLE SPEED DRIVE) TO SERVE EXHAUST FAN EF-3 ON ROOF.
  - 11 DRIVE ISOLATION TRANSFORMER (SUPPLIED WITH VARIABLE SPEED DRIVE) TO SERVE EXHAUST FAN EF-4 ON ROOF.
  - 12 3 #8's AND 1 #10 GND. IN 3/4".



POWER PLAN - PARTIAL ROOF  
SCALE: 1/8" = 1'-0"

**DISTRIBUTION PANELBOARD "PA" SCHEDULE**  
277/480v. - 3 phase - 4 wire

CIRCUIT NUMBER	APPLICATION	POLES	CAPACITY IN AMPS
----	MAIN	3	400
PA-1	TRANSFORMER (T-2)	3	350
PA-2	PANELBOARD (LA)	3	60
PA-3	CENTRAL VACUUM 5 H.P.	3	20
PA-4	SPARE	3	60
PA-5	SPARE	3	60
PA-6	SPARE	3	30
PA-7	SPARE	3	30

**EMERGENCY DISTRIBUTION PANELBOARD "EPA" SCHEDULE**  
277/480v. - 3 phase - 4 wire

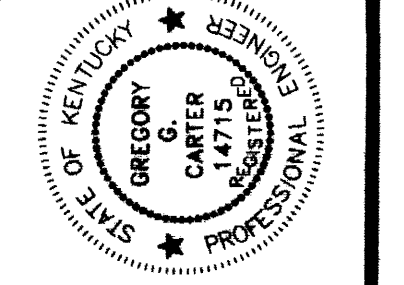
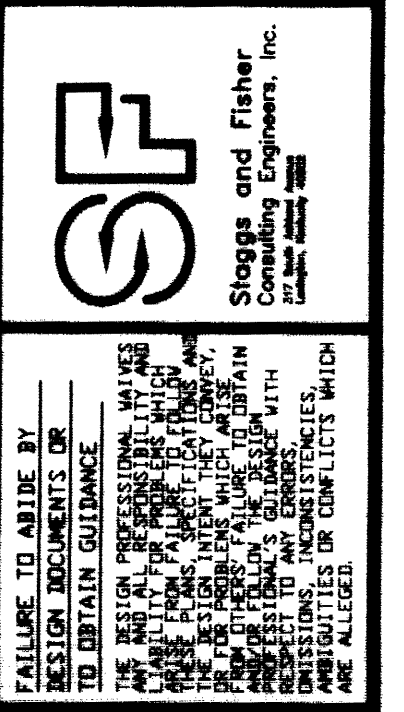
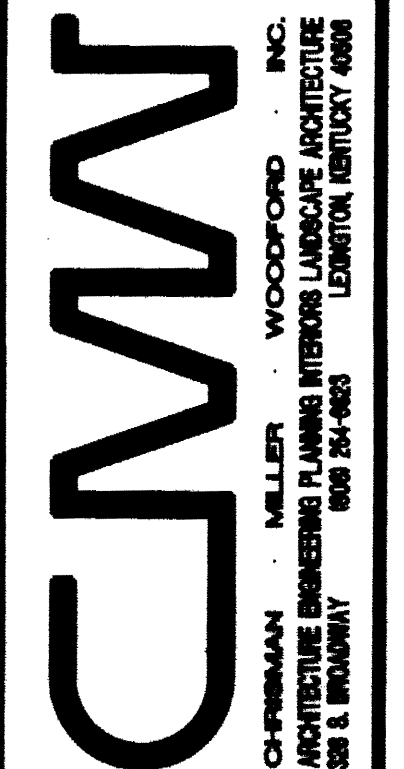
CIRCUIT NUMBER	APPLICATION	POLES	CAPACITY IN AMPS
----	MAIN	3	150
EPA-1	TRANSFORMER (T-1) 30KVA	3	50
EPA-2	PANEL (ELA)	3	60
EPA-3	SUPPLY FAN SF-1 40 H.P.	3	80
EPA-4	SUPPLY FAN SF-2 40 H.P.	3	80
EPA-5	PREHEAT PUMP P-3 7-1/2 H.P.	3	20
EPA-6	PREHEAT PUMP P-4 7-1/2 H.P.	3	20
EPA-7	VACUUM PUMP 3 H.P.	3	15
EPA-8	VACUUM PUMP 3 H.P.	3	15
EPA-9	WASTE GAS 3 H.P.	3	15
EPA-10	WASTE GAS 3 H.P.	3	15
EPA-11	PREHEAT PUMP P-1 3/4 H.P.	3	15
EPA-12	PREHEAT PUMP P-2 3/4 H.P.	3	15
EPA-13	SEWAGE EJECTOR (2) 3 H.P.	3	20
EPA-14	CONDENSATE PUMP CP-1 2-1/2 H.P.	3	20
EPA-15	CONDENSATE PUMP CP-1 2-1/2 H.P.	3	20
EPA-16	SPARE	3	60
EPA-17	SPARE	3	60
EPA-18	SPARE	3	30
EPA-19	SPARE	3	30

**PANELBOARD CIRCUIT CAPACITY**

PANEL BOARD	ONE - POLE	TWO - POLE	3 - POLE	SPACES	CAP OF LUGS/ NEU. IN AMPS	MOUNTING
120/208						
RA	32-20A	2-60A/4-20A	2-60A	10	400 MAIN	SURFACE
RB	34-20A	2-60A/4-20A	2-60A	8	400 MAIN	SURFACE
RC	30-20A	-----	-----	12	100 MAIN	SURFACE
ERA	18-20A/2-30A	-----	-----	10	100 MAIN	SURFACE
277/480						
LA	12-20A	-----	-----	18	100	SURFACE
ELA	16-20A	-----	-----	14	100	SURFACE

**STEP-DOWN TRANSFORMER SCHEDULE**

TRAN. NUMBER	KVA	PRIMARY VOLTAGE	SECOND. VOLTAGE	PHASE	LOCATION	APPLICATION
T-1	30	480	120/208	3	006 (WRES)	
T-2	225	480	120/208	3	006 (WRES)	



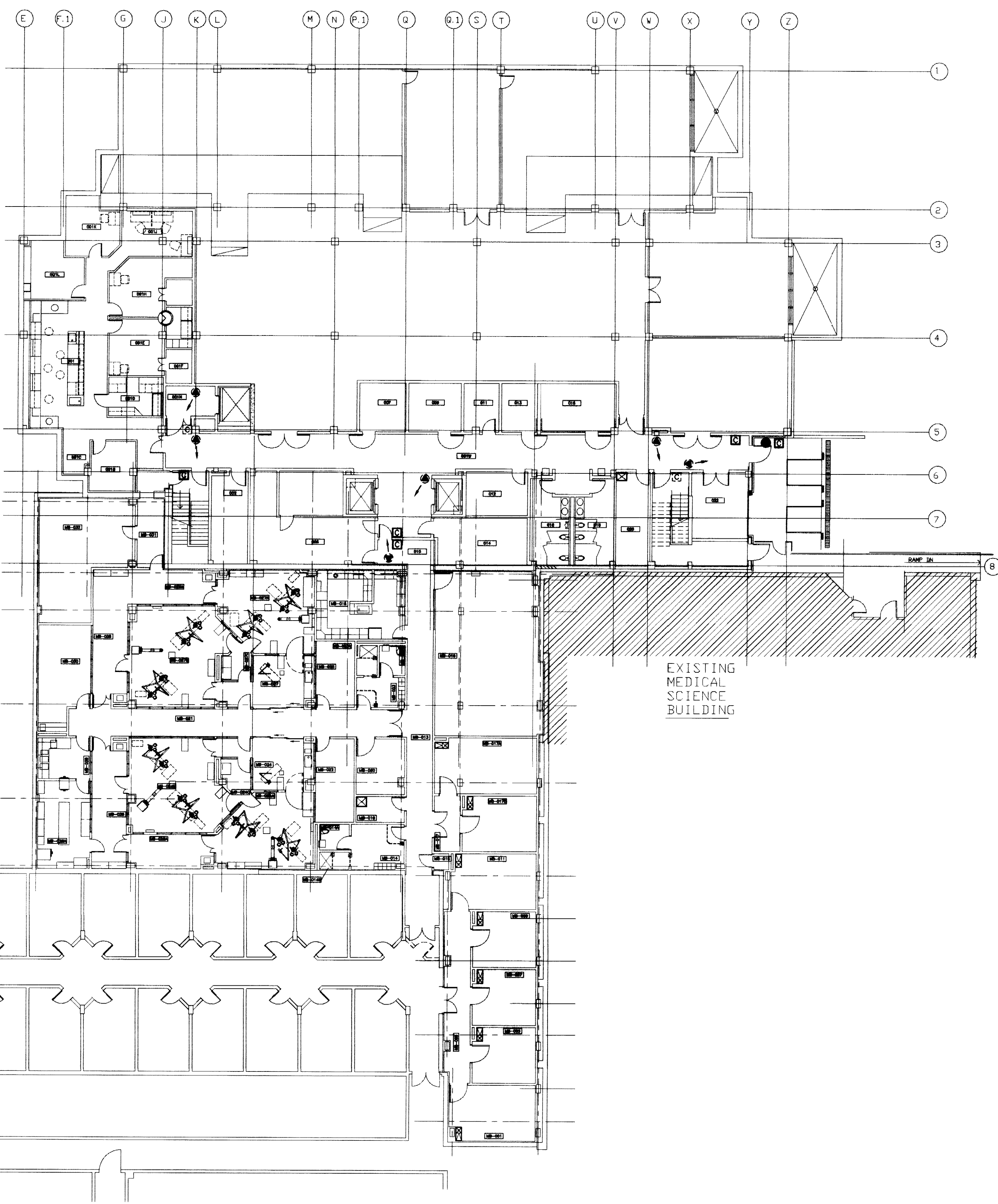
**POWER PLAN - PARTIAL ROOF AND SCHEDULES**  
**Medical Research Fit-up and Security System**  
**University of Kentucky**  
**Project No. 747.3**

SHT. PROJECT TITLE  
DATE: MARCH 1996  
DRAWN BY: WFB  
CHECKED BY: GSC  
REVISION:  
DATE: 1  
DATE: 4

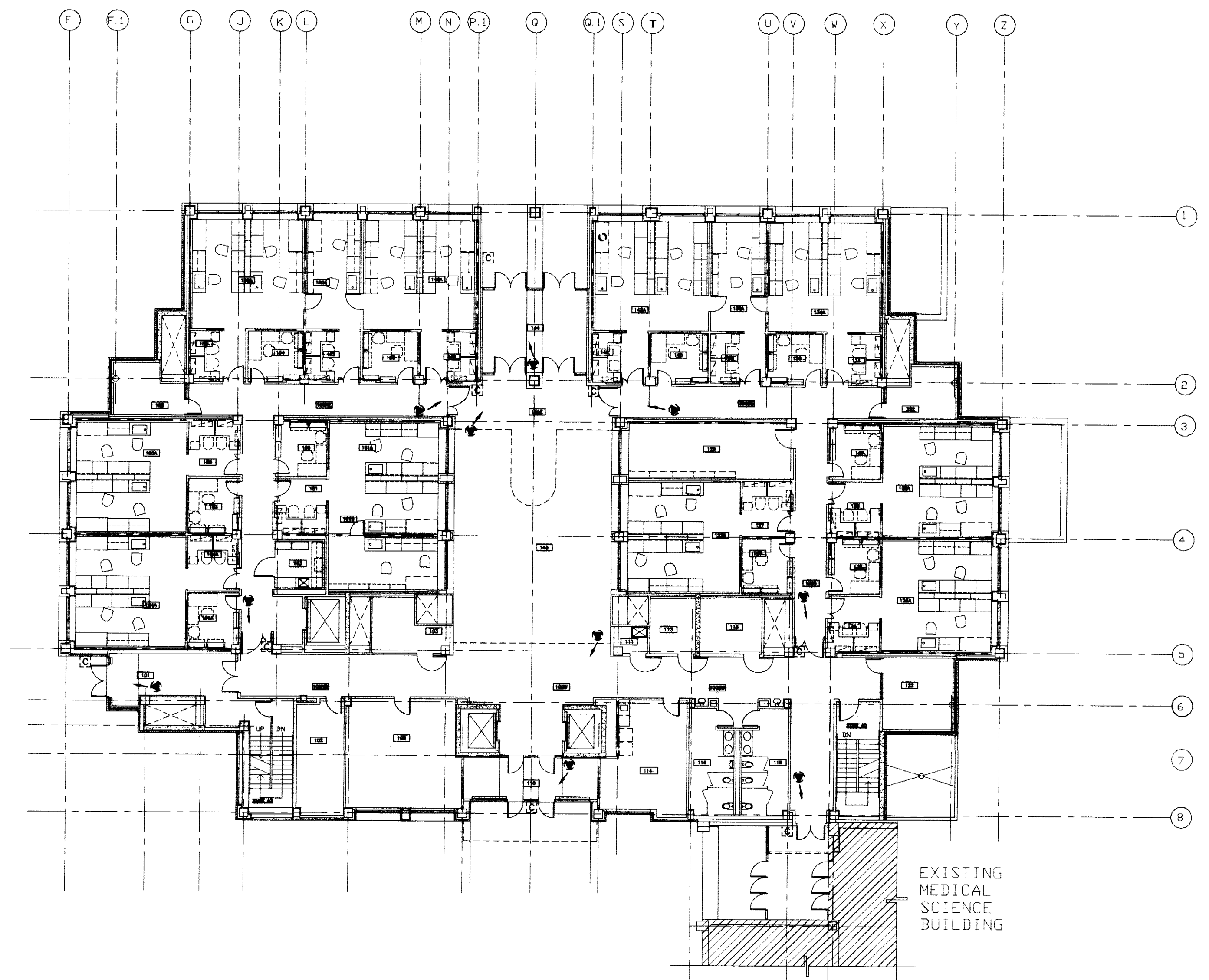
SHEET NUMBER  
**10.23**  
PROJECT NUMBER

RECORD DRAWINGS DATE 8/5/96  
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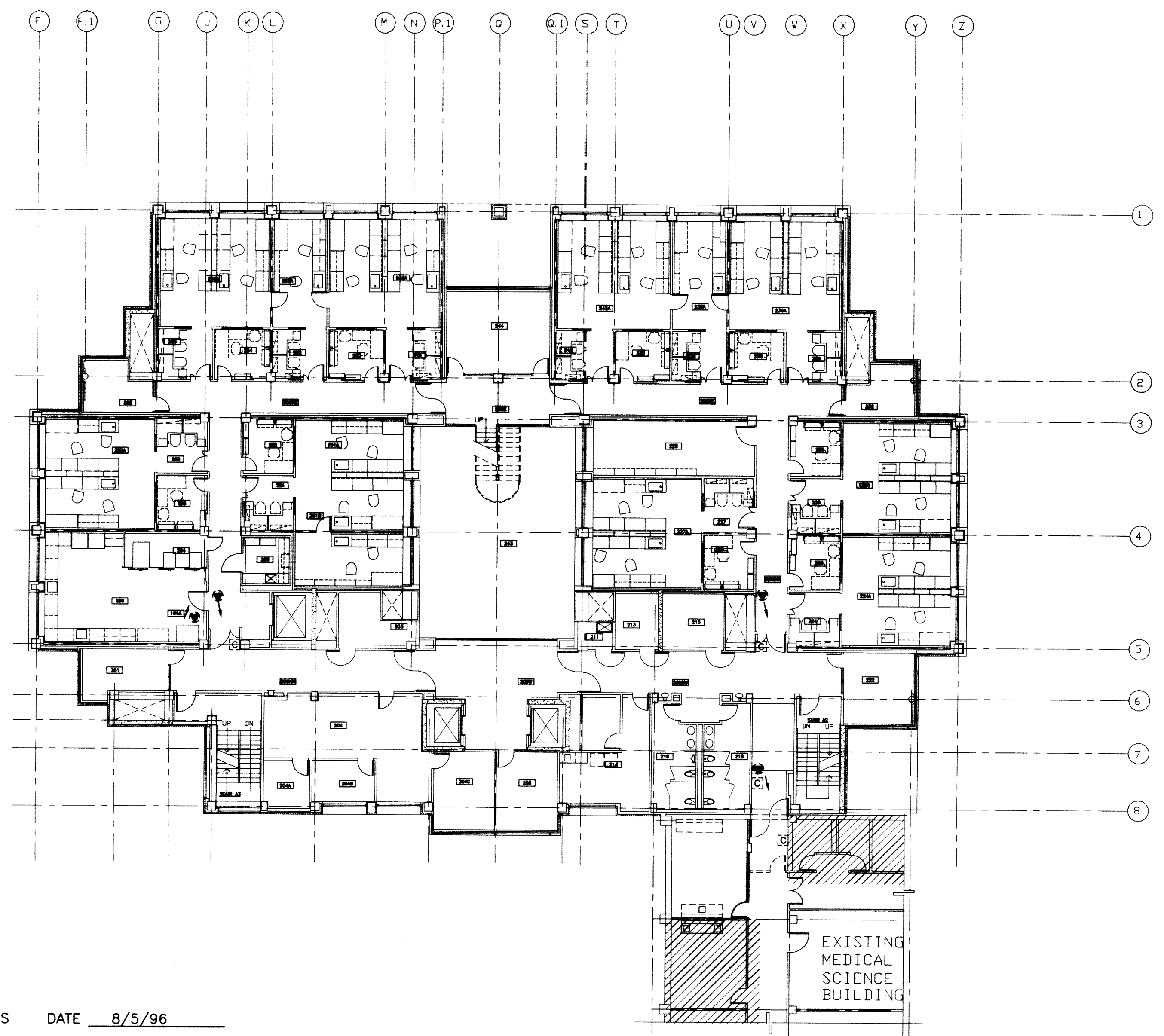




**SECURITY PLAN - BASEMENT**  
SCALE: 1/16" = 1'-0"

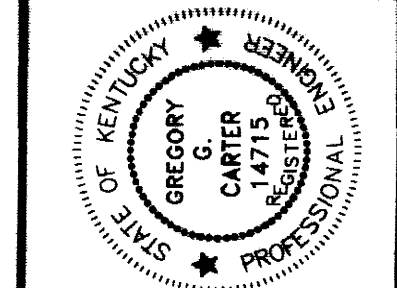
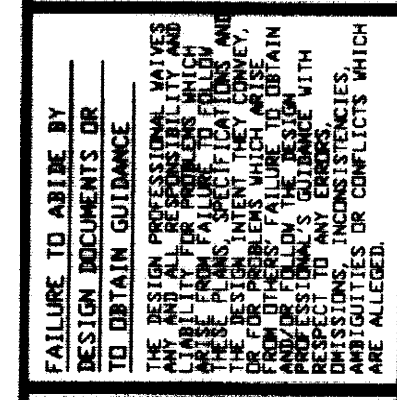
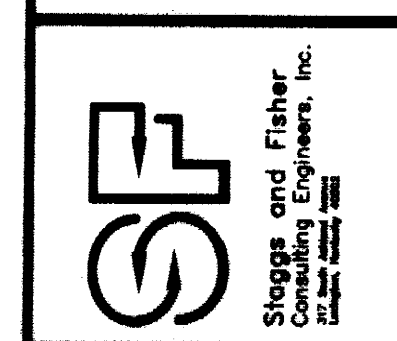
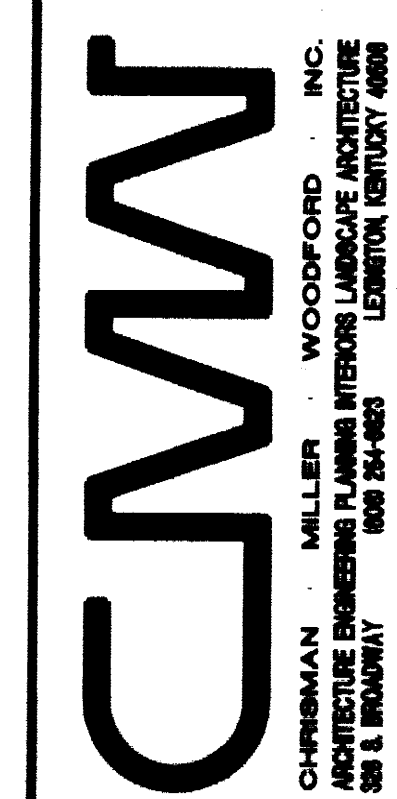


**SECURITY PLAN - FIRST FLOOR**  
SCALE: 1/16" = 1'-0"



**SECURITY PLAN - SECOND FLOOR**  
SCALE: 1/16" = 1'-0"

RECORD DRAWINGS DATE 8/5/96  
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STAGGS & FISHER CONSULTING ENGINEERS, INC.



**SECURITY FLOOR PLANS**  
**Medical Research Fit-up and Security System**  
**University of Kentucky**  
**Project No. 747.3**

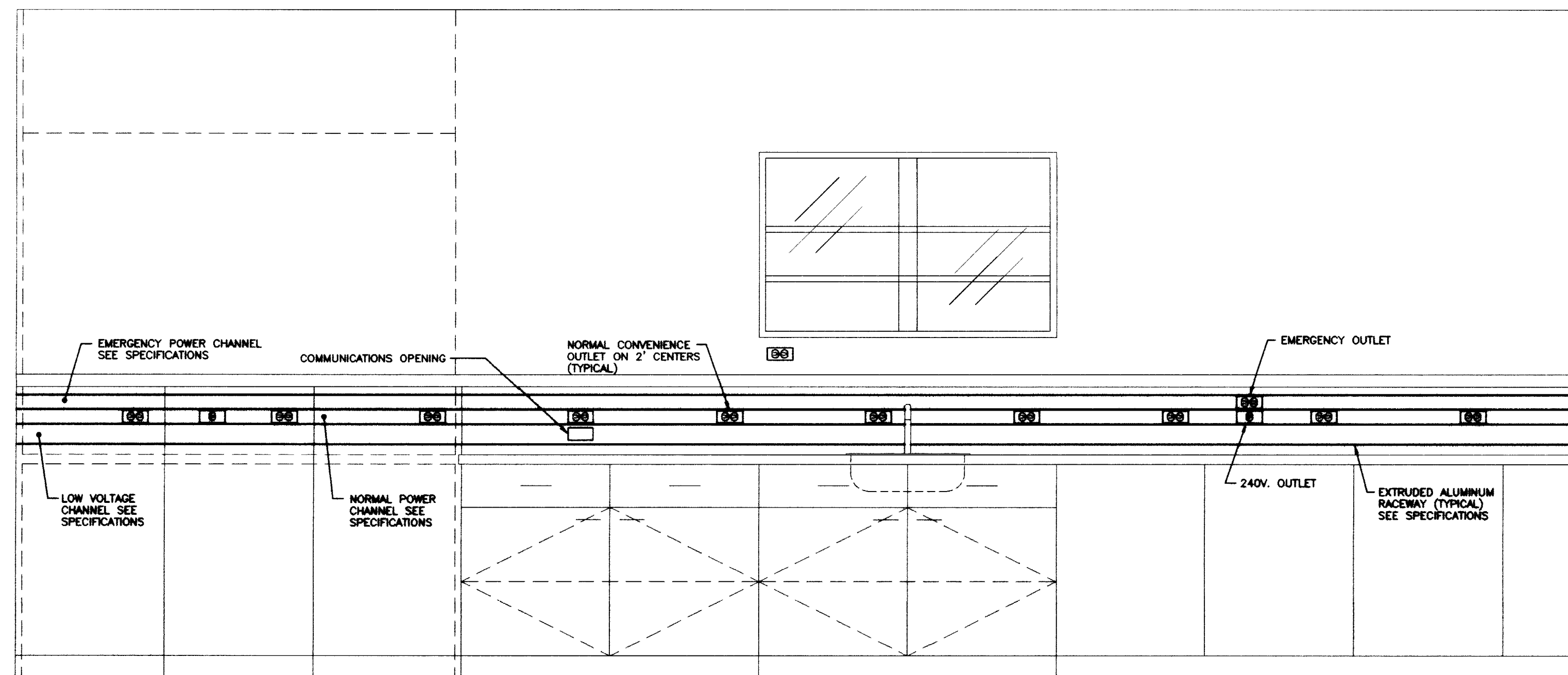
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SHEET NUMBER  
**10.24**  
PROJECT NUMBER

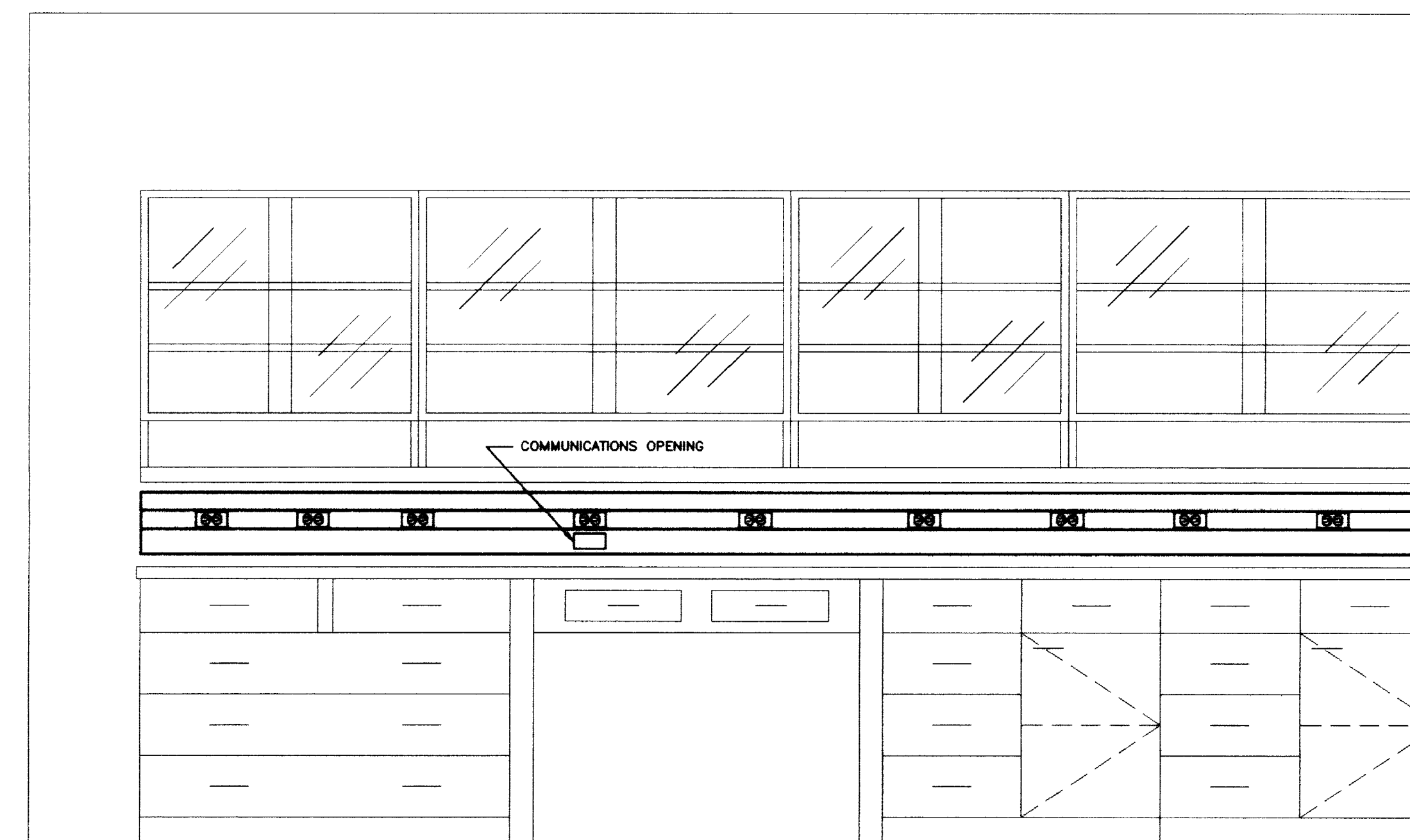




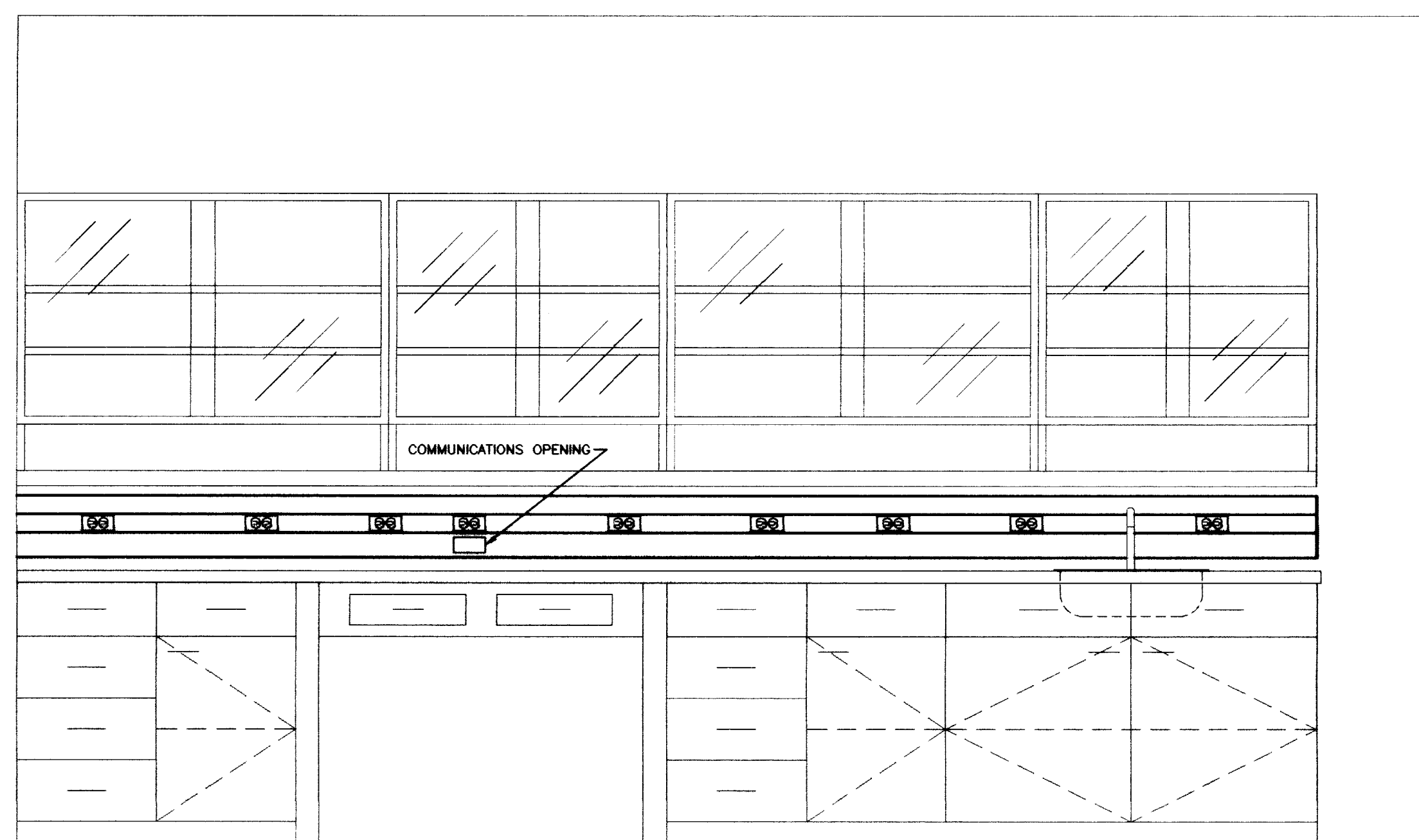




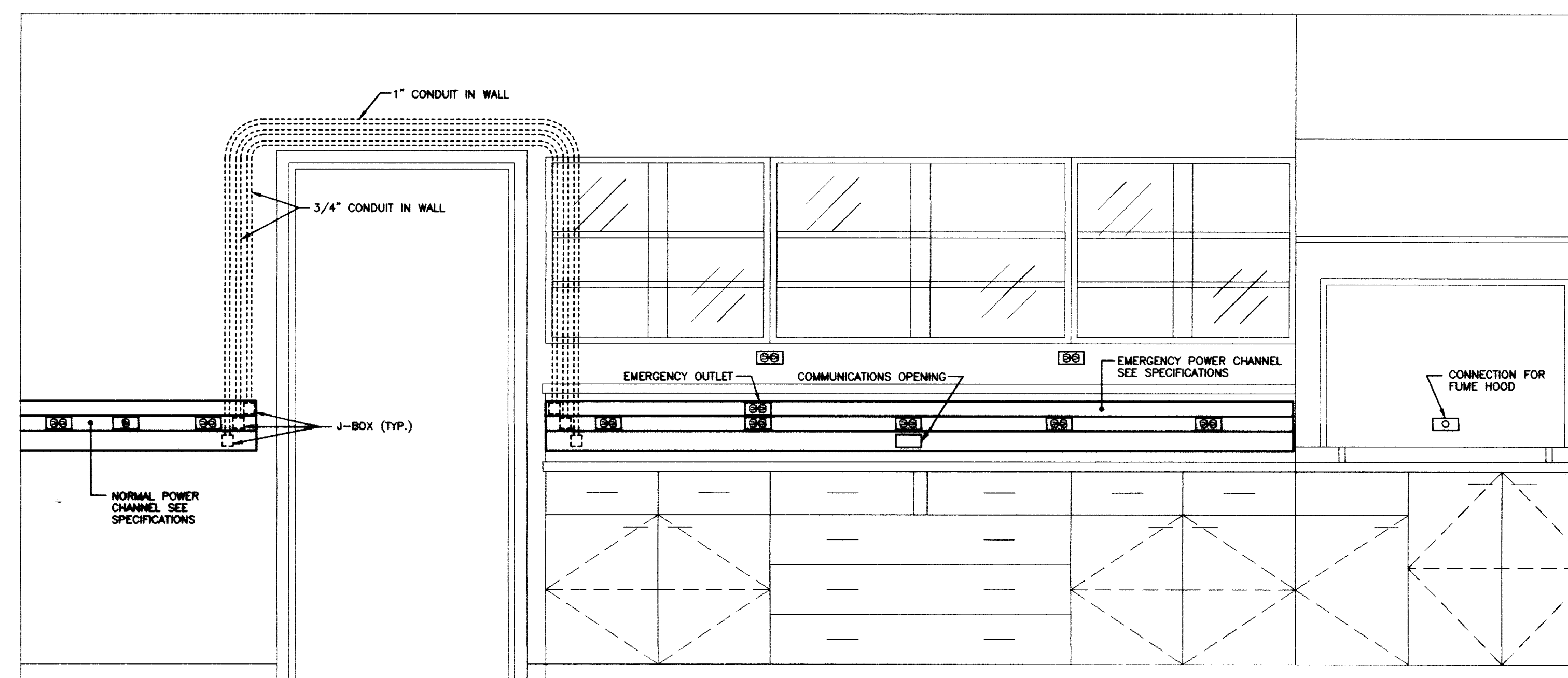
ELEVATION A TYPICAL LAB  
SCALE: 3/4" = 1'-0"



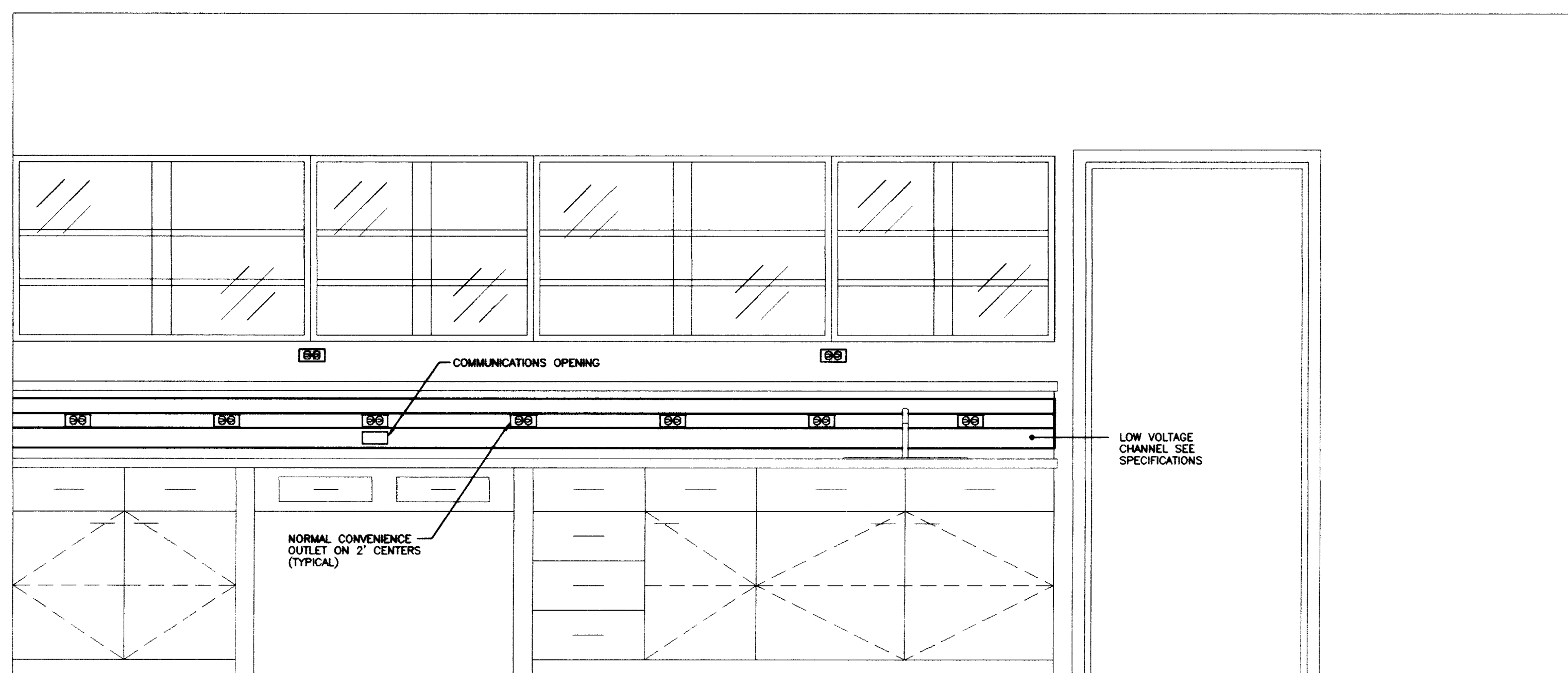
ELEVATION B TYPICAL LAB  
SCALE: 3/4" = 1'-0"



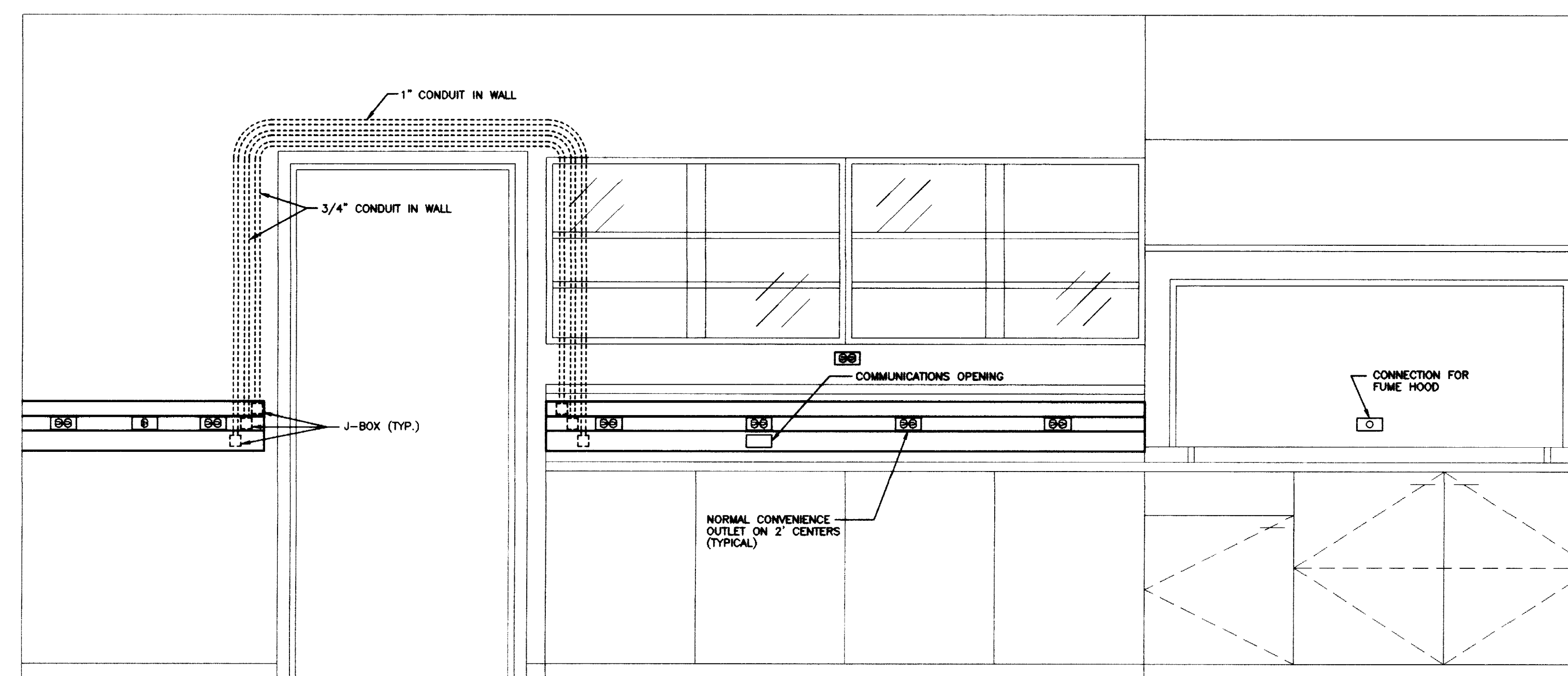
ELEVATION C TYPICAL LAB  
SCALE: 3/4" = 1'-0"



ELEVATION D TYPICAL LAB  
SCALE: 3/4" = 1'-0"



ELEVATION E TYPICAL LAB  
SCALE: 3/4" = 1'-0"



ELEVATION F TYPICAL LAB  
SCALE: 3/4" = 1'-0"



