



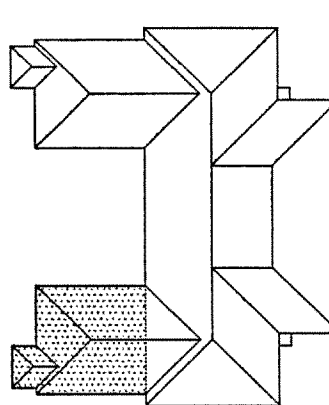
SCIENCE BUILDING
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON
CODE 44888 ITEM 301 ID#009280801A

SHEET TITLE:

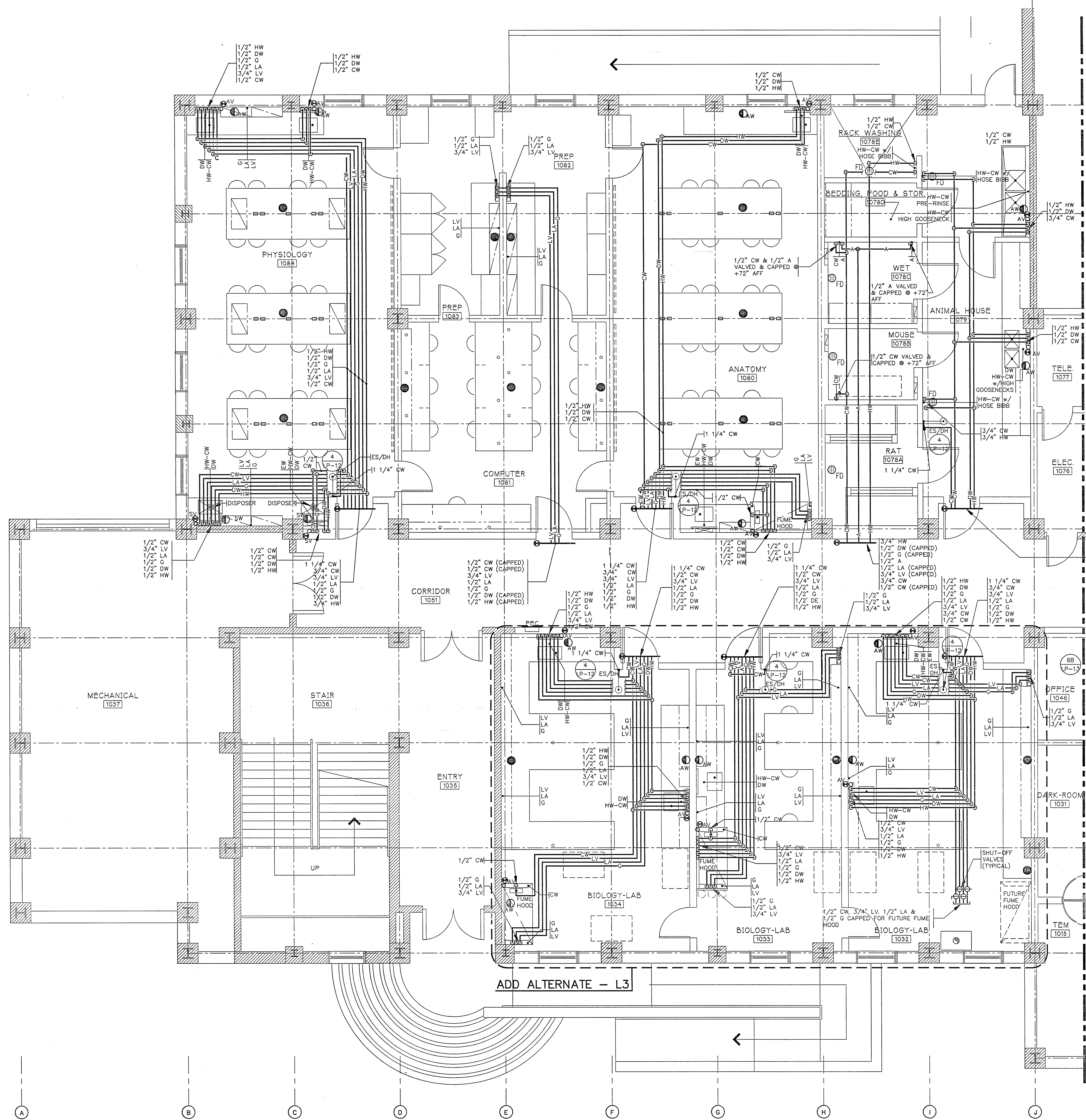
FIRST FLOOR PLAN - AREA ONE
WEST

SHEET NO.:

LP1

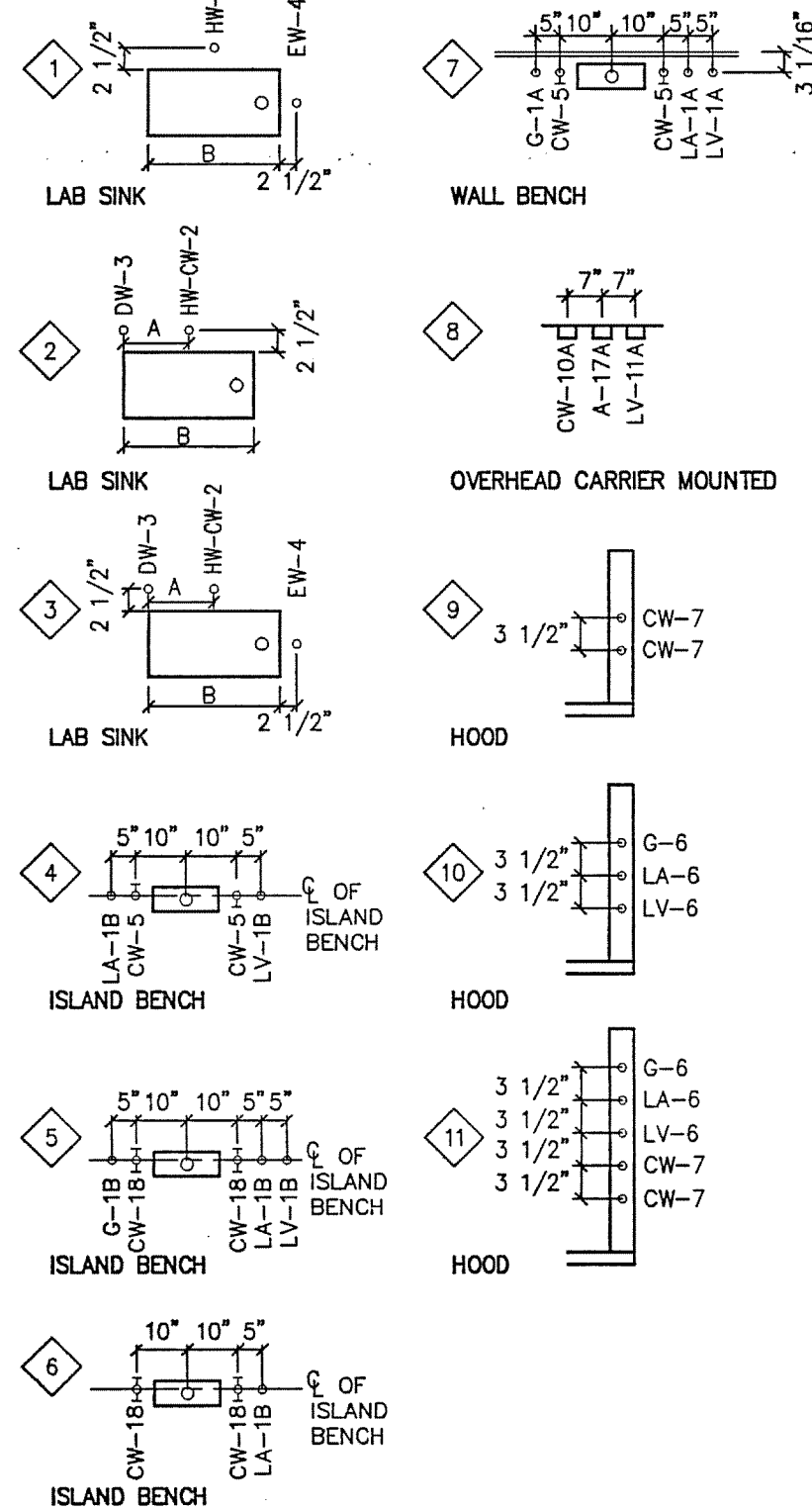


BUILDING KEYMAP



SERVICE FITTING SCHEDULE

EXAMPLE:
G-1A INDICATES TYPE OF FITTING ABBREVIATED INDIVIDUALLY ON FLOOR PLANS.
LA-10 NUMERICAL REFERENCE OF FITTING ELEV. SEE DRAWING UT-16.
FITTINGS MAY ALSO BE INDICATED INDIVIDUALLY ON FLOOR PLANS.
A = 7" IF B = 21" OR LESS
A = 9" IF B > 21"



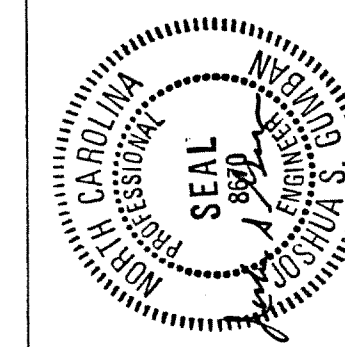
FIRST FLOOR
SCALE: 1/4" = 1'-0"

AREA ONE
AS BUILT

DRAWING REVISIONS:		
NO.	DATE	REMARKS

DATE: 5/16/94
PROJECT#: 8962
DESIGNED BY: AMA
DRAWN BY: AMA
CHECKED BY: ARW
CHECKED BY:

Earl Wells Associates
Laboratory Design Consultants
5348 Carroll Canyon Road
San Diego, California 92121
(619)457-2400



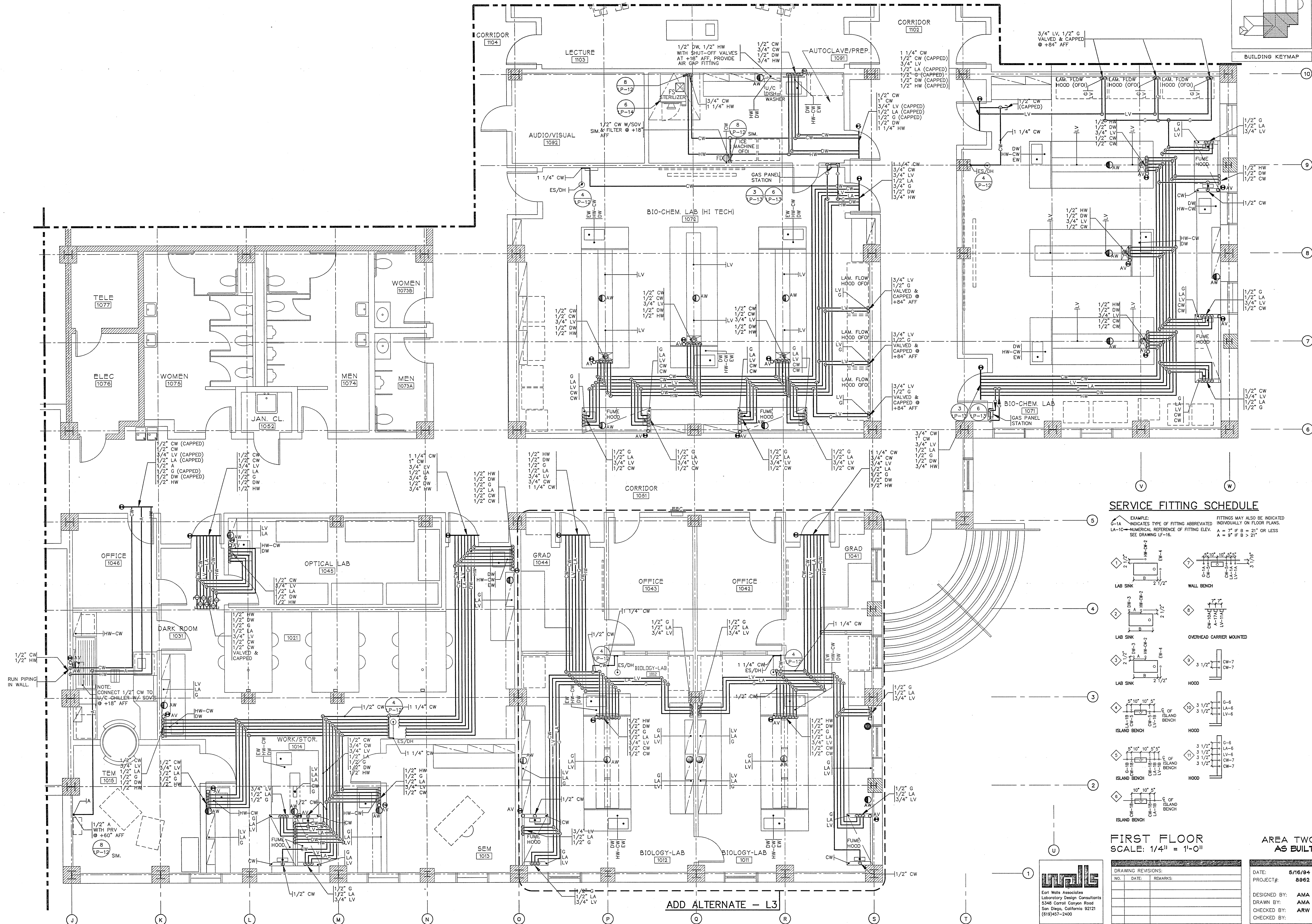
SCIENCE BUILDING
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON
CODE 49388 ITEM 301 ID#6089280301A

SHEET TITLE:

FIRST FLOOR PLAN - AREA TWO
WEST

SHEET NO :

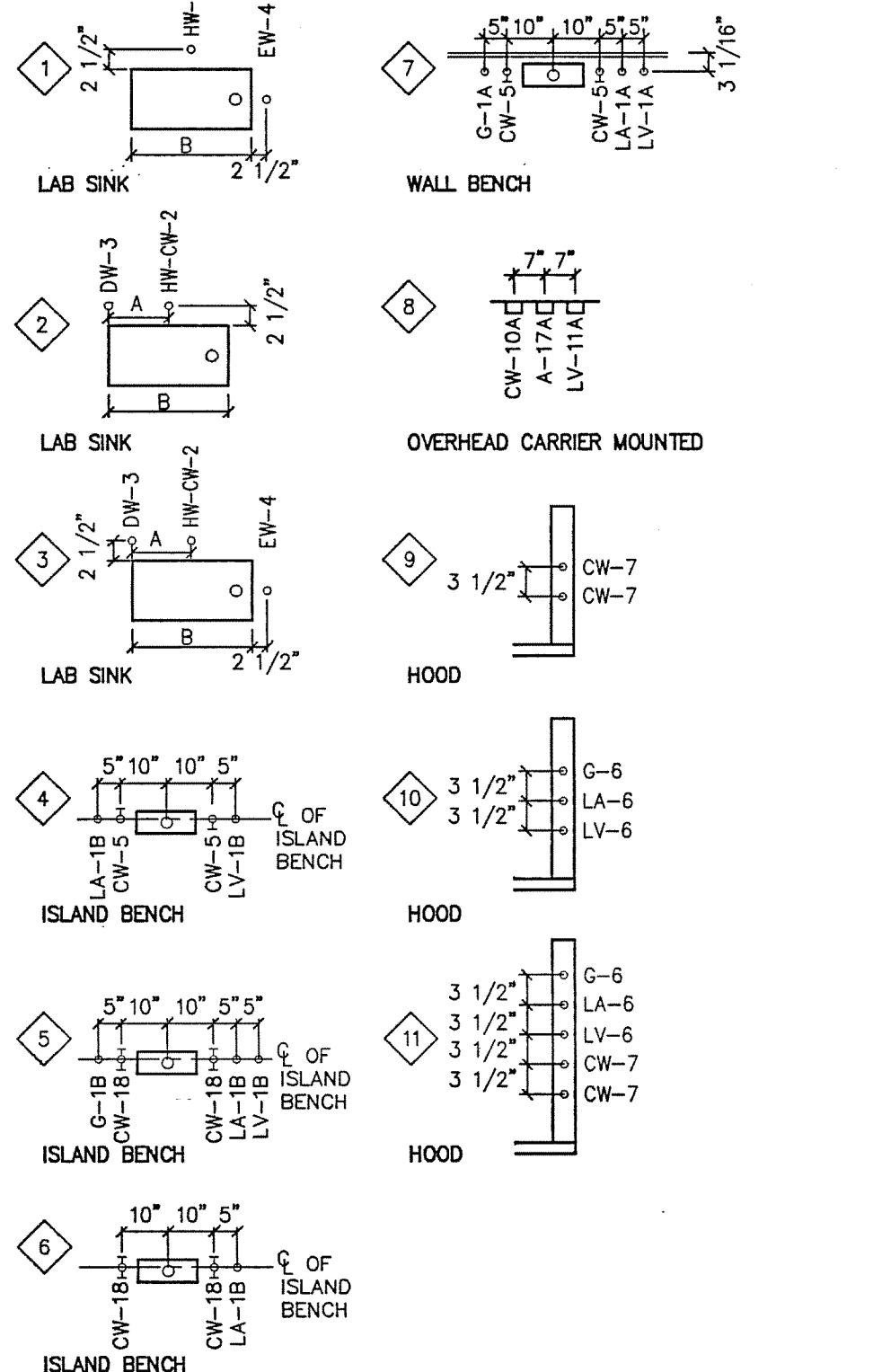
LP2



SERVICE FITTING SCHEDULE

EXAMPLE:
G-1A INDICATES TYPE OF FITTING ABBREVIATED
LA-1C NUMERICAL REFERENCE OF FITTING ELEV.
SEE DRAWING LF-16.

FITTINGS MAY ALSO BE INDICATED INDIVIDUALLY ON FLOOR PLANS.
A = 7" IF B = 21" OR LESS
A = 9" IF B > 21"



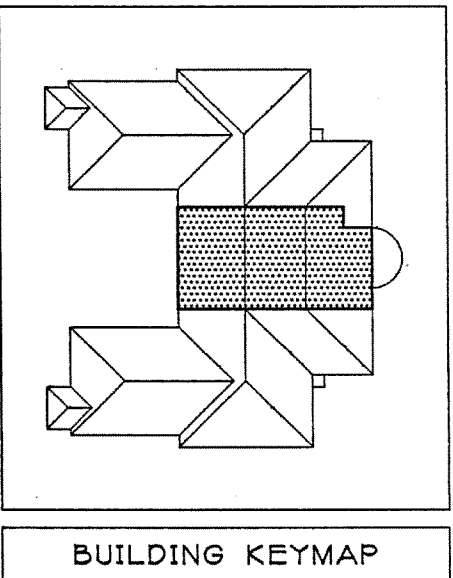
FIRST FLOOR
SCALE: 1/4" = 1'-0"

AREA TWO
AS BUILT

[illegible]

DATE: 5/16/94
PROJECT#: 8962
DESIGNED BY: AMA
DRAWN BY: AMA
CHECKED BY: ARW
CHECKED BY:

EWA DRAWING FILE: 8962.00 8962-P02.DWG REVIEW DATE: 7/29/1996 S05



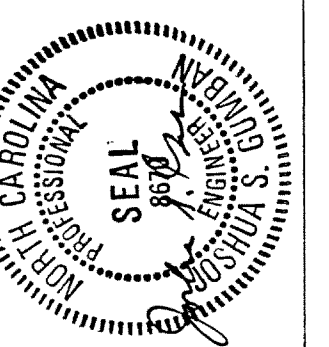
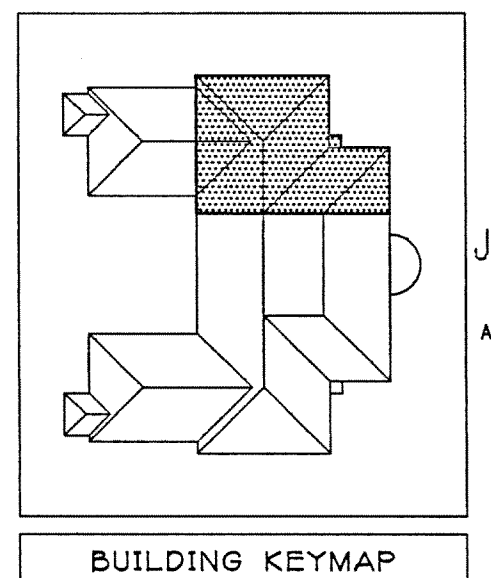
SHEET TITLE:

FIRST FLOOR PLAN - AREA THREE
WEST

SHEET NO.:

LP3

EWA DRAWING FILE: 8962.00 8962-P03.DWG REVIEW DATE: 7/29/1996 S05



SCIENCE BUILDING
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON
CODE 49308 ITEM 301 ID#6089280301A

SHEET TITLE:

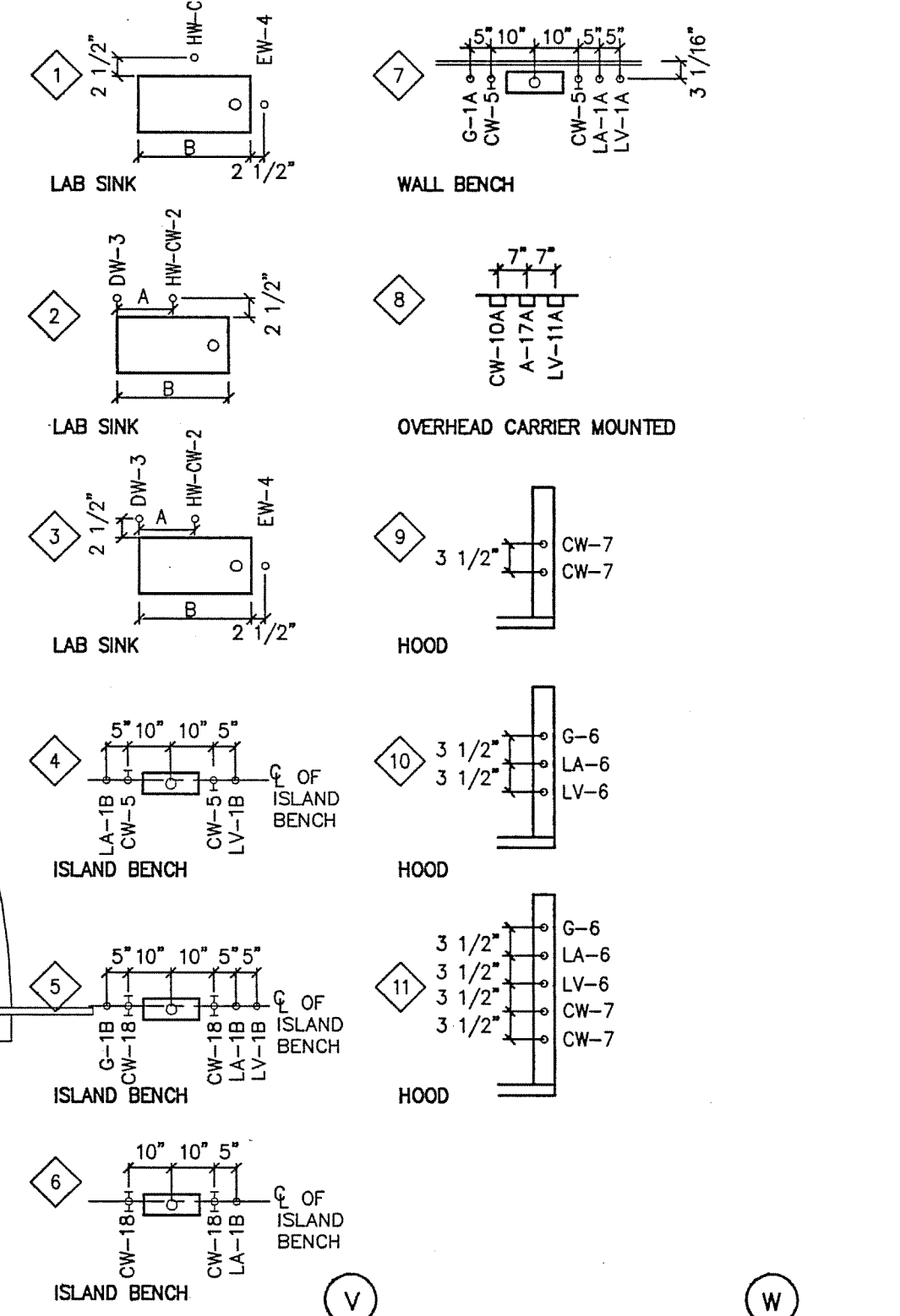
FIRST FLOOR PLAN - AREA FOUR
EAST

SHEET NO.:

LP4

SERVICE FITTING SCHEDULE

EXAMPLE:
G-1A INDICATES TYPE OF FITTING ABBREVIATED INDIVIDUALLY ON FLOOR PLANS.
LA-10 NUMERICAL REFERENCE OF FITTING ELEV. A = 7" IF B = 21" OR LESS
SEE DRAWING LF-16. A = 8" IF B > 21"



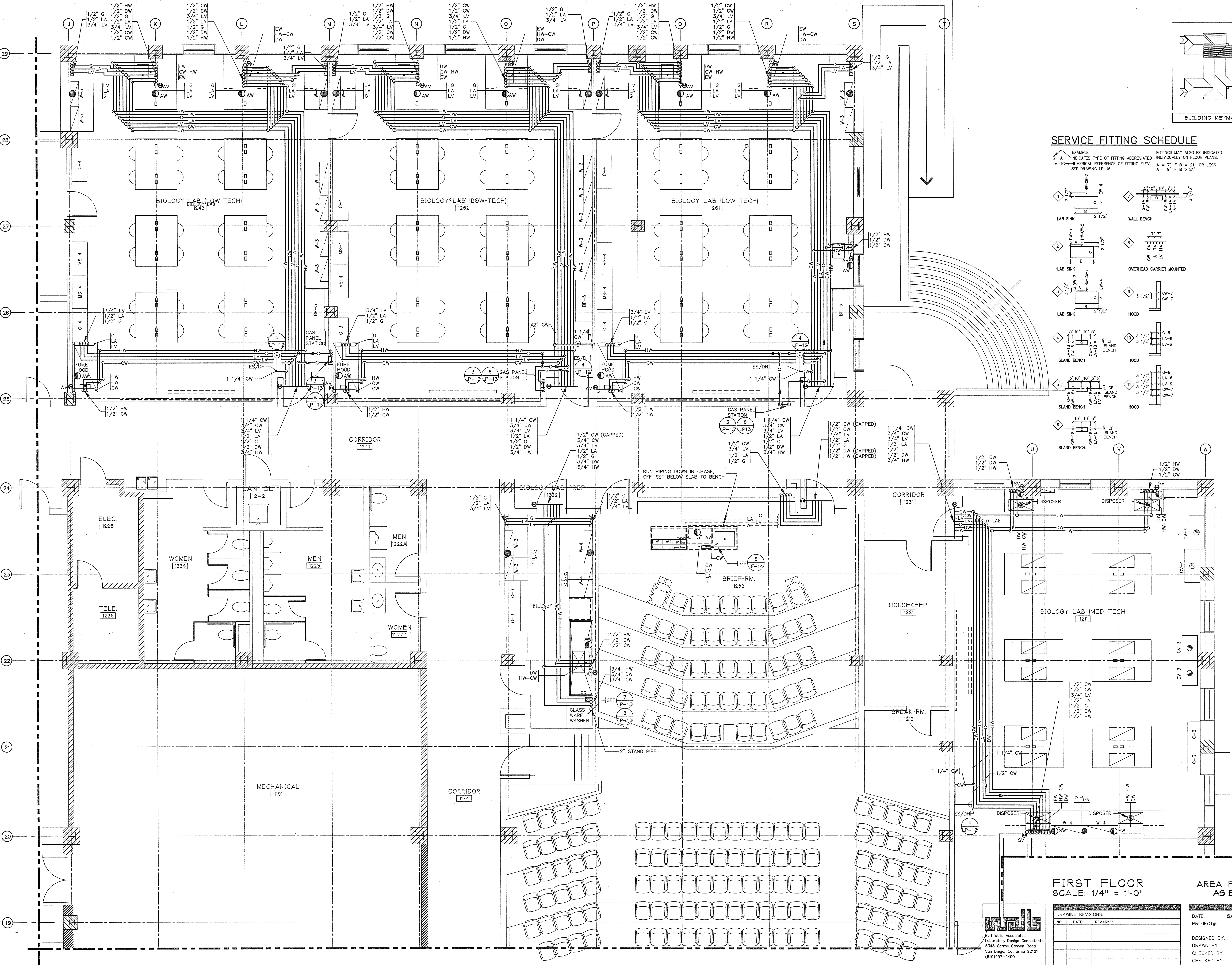
FIRST FLOOR
SCALE: 1/4" = 1'-0"

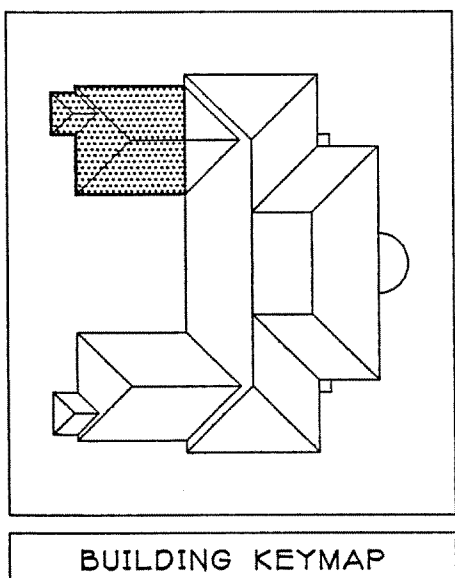
AREA FOUR
AS BUILT

DRAWING REVISIONS:		
NO.	DATE	REMARKS

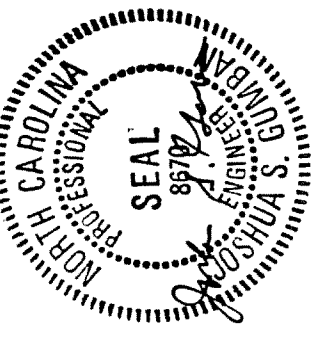
DATE: 5/16/94
PROJECT#: 8962
DESIGNED BY: AMA
DRAWN BY: AMA
CHECKED BY: ARW

Earl Wall Associates
Laboratory Design Consultants
5348 Carroll Canyon Road
San Diego, California 92121
(619)457-2400





JEFFERIES AND FARIS
ASSOCIATES
ARCHITECTS • PLANNERS
SEA TOWERS, SUITE 201
2002 EASTWOOD ROAD
WILMINGTON, N.C. 28403
TEL: 910.256.6633
FAX: 910.256.9088



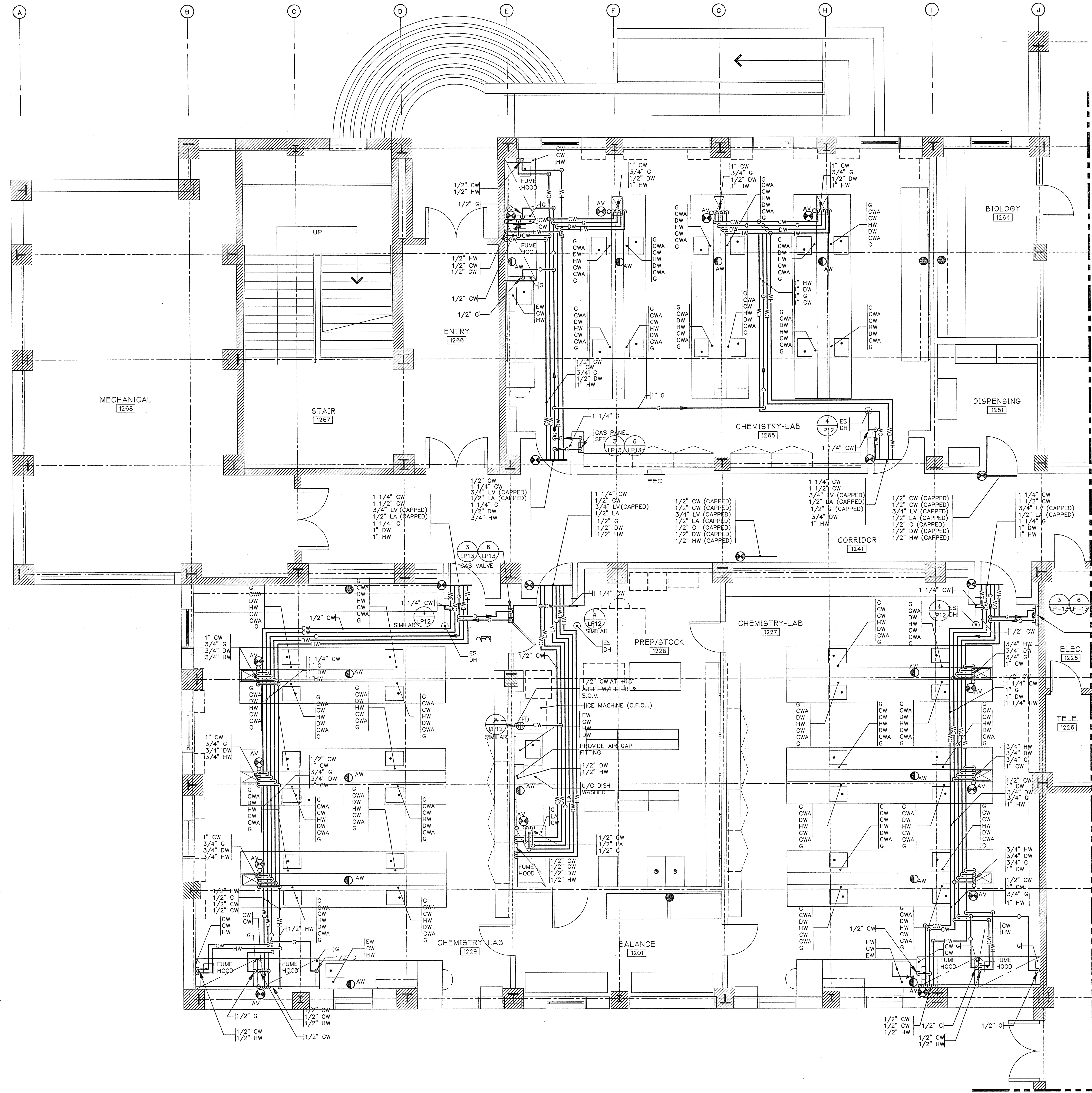
SCIENCE BUILDING
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON
CODE 49388 ITEM 301 ID#6084280301A

SHEET TITLE:

FIRST FLOOR PLAN - AREA FIVE
EAST

SHEET NO.:

LP5



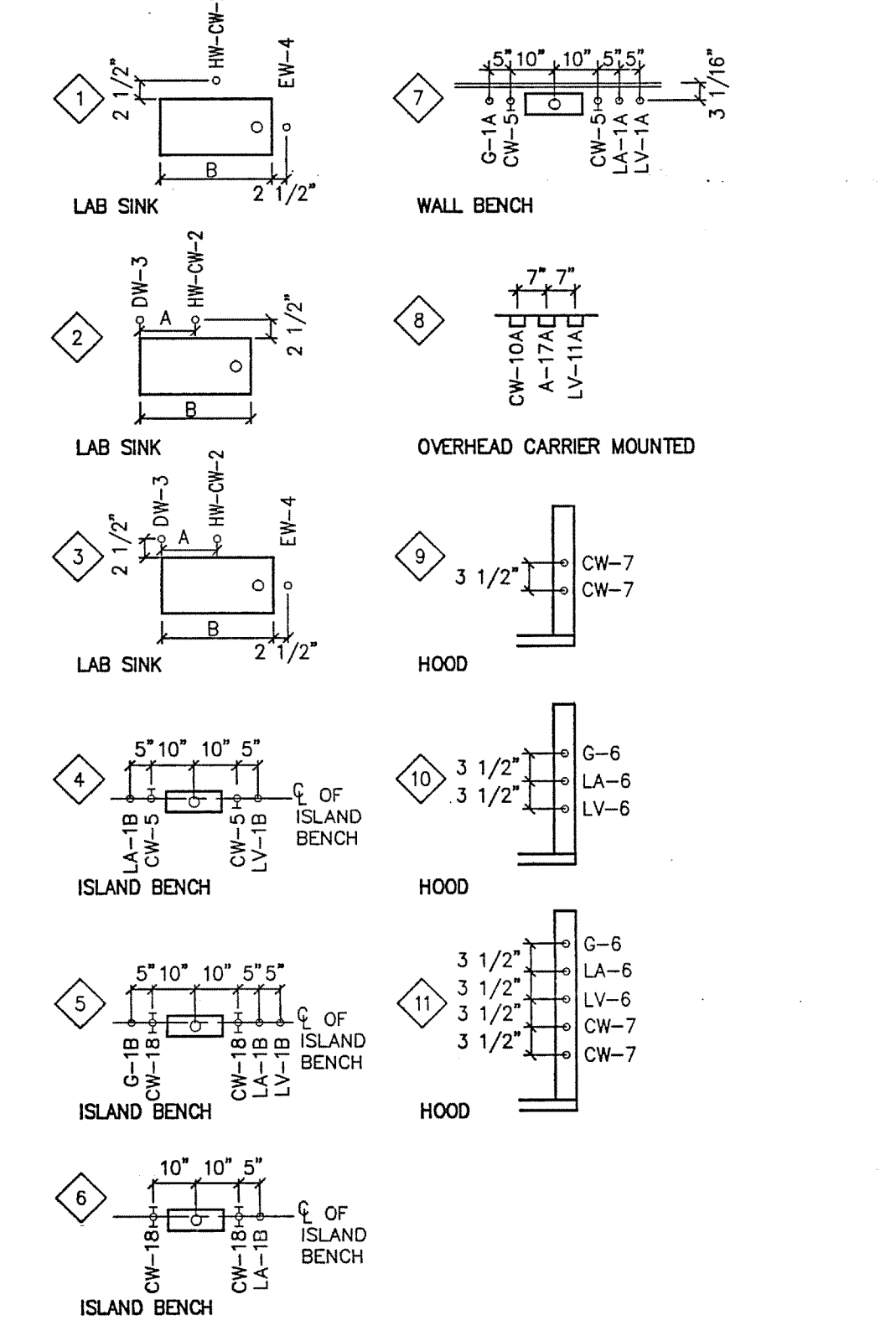
UNISTRUT PIPE
SUPPORT SYSTEM
SEE DETAIL - LF-

MATCH LINE SEE DWG. LP-0-

MATCH LINE SEE
DWG. LP-0-

SERVICE FITTING SCHEDULE

EXAMPLE:
G-1A INDICATES TYPE OF FITTING ABBREVIATED
INDIVIDUALLY ON FLOOR PLANS.
LA-10- NUMERICAL REFERENCE OF FITTING ELEV.
SEE DRAWING LP-16.



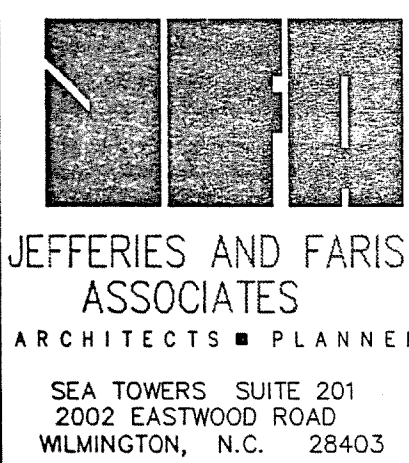
FIRST FLOOR
SCALE: 1/4" = 1'-0"

AREA FIVE
AS BUILT

DRAWING REVISIONS:	
NO.	DATE: REMARKS:

DATE: 5/16/84
PROJECT#: 8962
DESIGNED BY: AMA
DRAWN BY: AMA
CHECKED BY: ARW

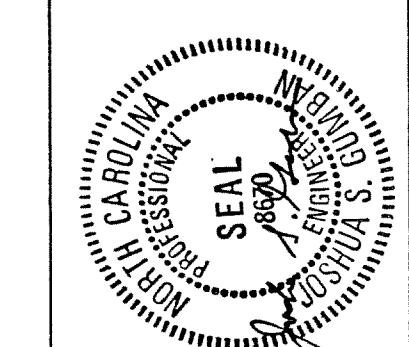
WALLS
Earl Walls Associates
Laboratory Design Consultants
5348 Carroll Canyon Road
San Diego, California 92121
(619)457-2400



**JEFFERIES AND FARIS
ASSOCIATES**
ARCHITECTS ■ PLANNERS

SEA TOWERS, SUITE 201
2002 EASTWOOD ROAD
WILMINGTON, N.C. 28403

TEL: 910.256.6633
FAX: 910.256.9088



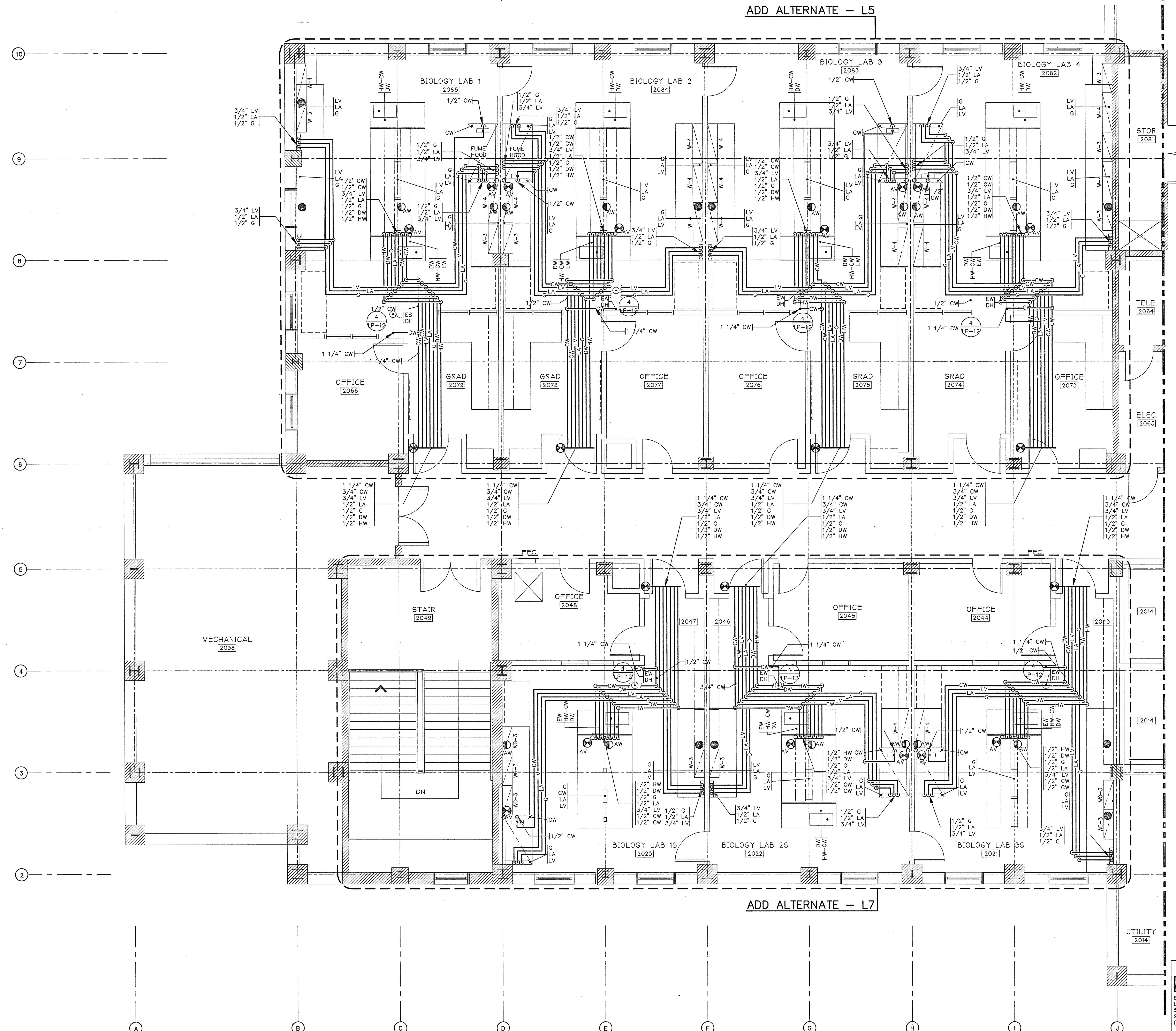
SCIENCE BUILDING
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON
CODE 49388 ITEM 301 ID#6089280301A

SHEET TITLE:

SECOND FLOOR PLAN - AREA ONE
WEST

SHEET NO.:

LP6



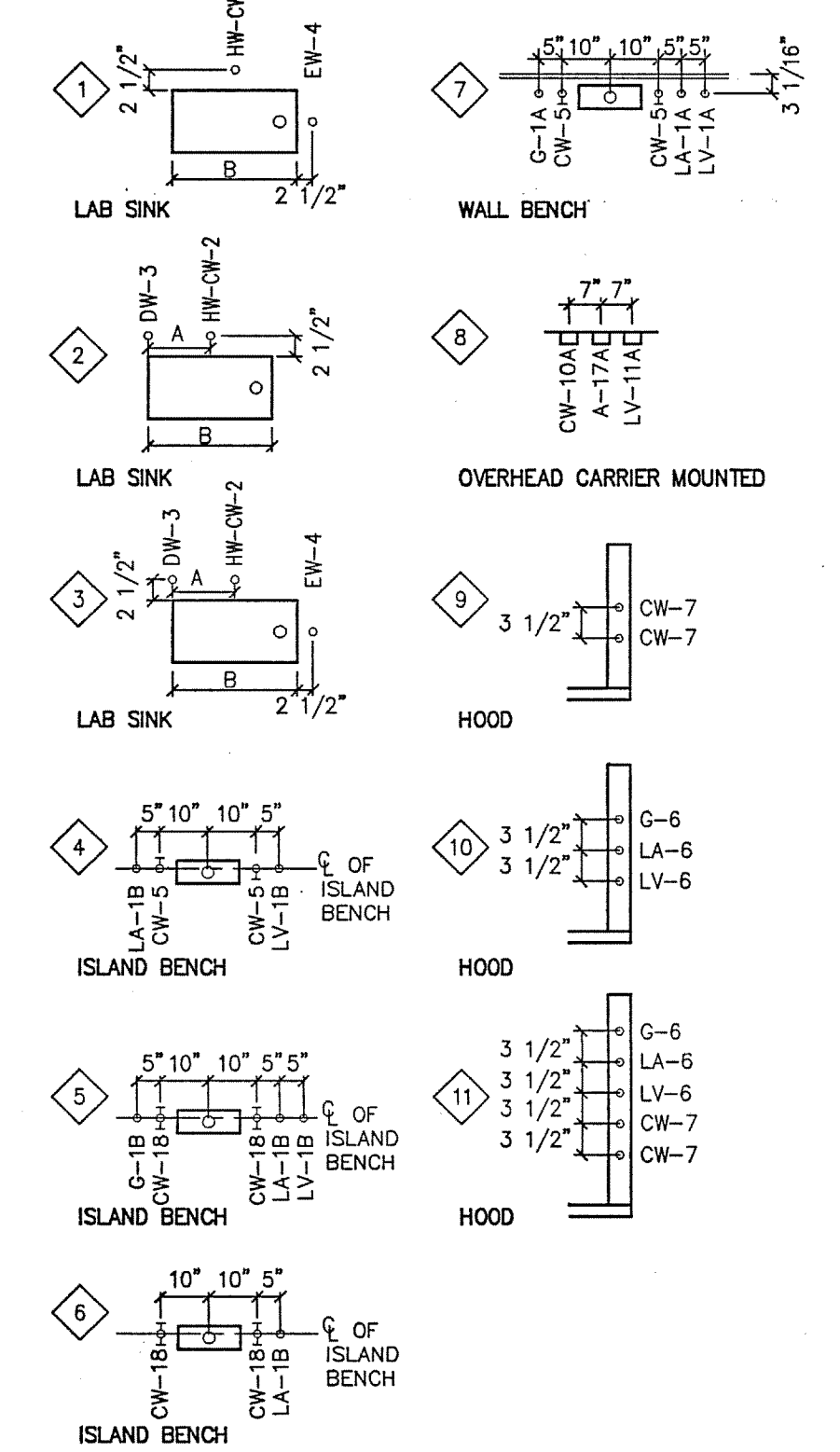
ADD ALTERNATE - L5

ADD ALTERNATE - L7

SERVICE FITTING SCHEDULE

EXAMPLE:
G-1A INDICATES TYPE OF FITTING ABBREVIATED
LA-1C NUMERICAL REFERENCE OF FITTING ELEV.
SEE DRAWING LF-16.

FITTINGS MAY ALSO BE INDICATED INDIVIDUALLY ON FLOOR PLANS.
A = 7" IF B = 21" OR LESS
A = 9" IF B > 21"



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

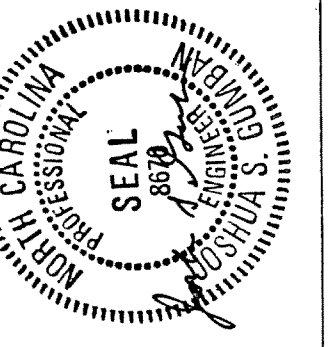
AREA ONE
AS BUILT

DRAWING REVISIONS:		
NO.	DATE:	REMARKS:

DATE: 5/16/84
PROJECT#: 8962
DESIGNED BY: AMA
DRAWN BY: AMA
CHECKED BY: ARW
CHECKED BY:



Earl Walls Associates
Laboratory Design Consultants
5348 Carroll Canyon Road
San Diego, California 92121
(619)457-2400



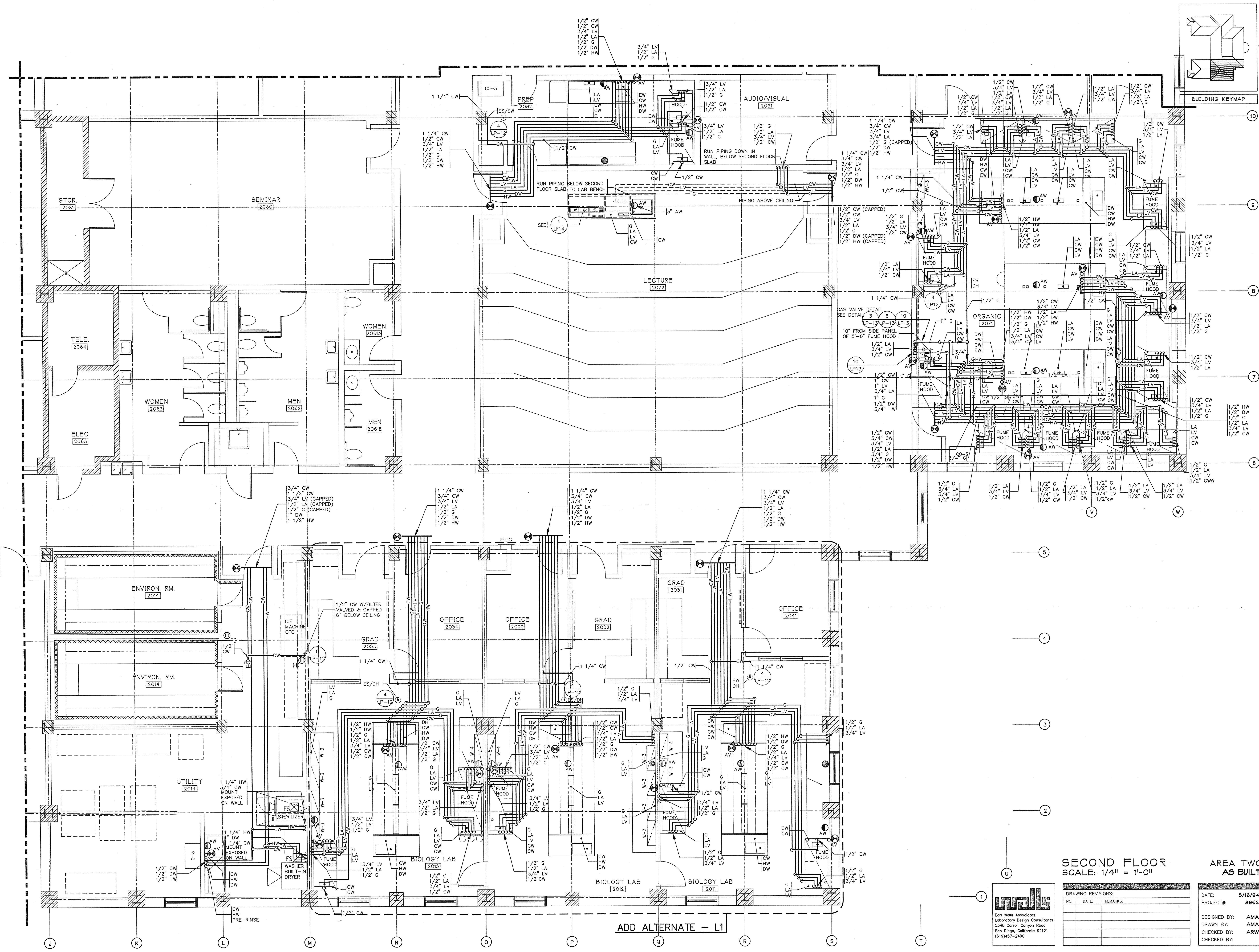
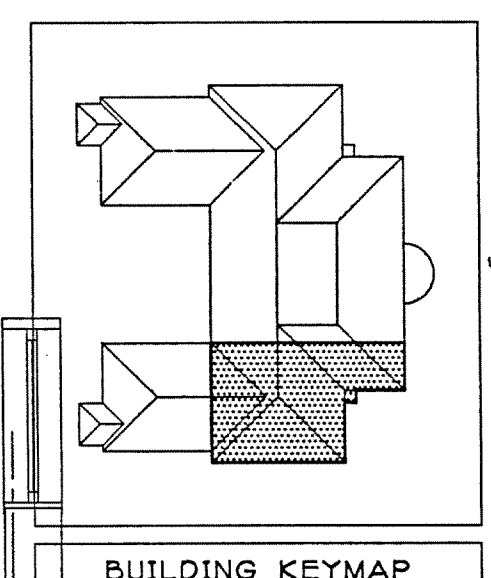
SCIENCE BUILDING
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON
CODE 44388 ITEM 301 ID#6089280301A

SHEET TITLE:

SECOND FLOOR PLAN - AREA TWO
WEST

SHEET NO.:

LP7



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

AREA TWO
AS BUILT

DRAWING REVISIONS:		
NO.	DATE	REMARKS

DATE: 5/16/94
PROJECT#: 8962
DESIGNED BY: AMA
DRAWN BY: AMA
CHECKED BY: ARW

inalls
Earl Walls Associates
Laboratory Design Consultants
5348 Carroll Canyon Road
San Diego, California 92121
(619)457-2400

ADD ALTERNATE - L1

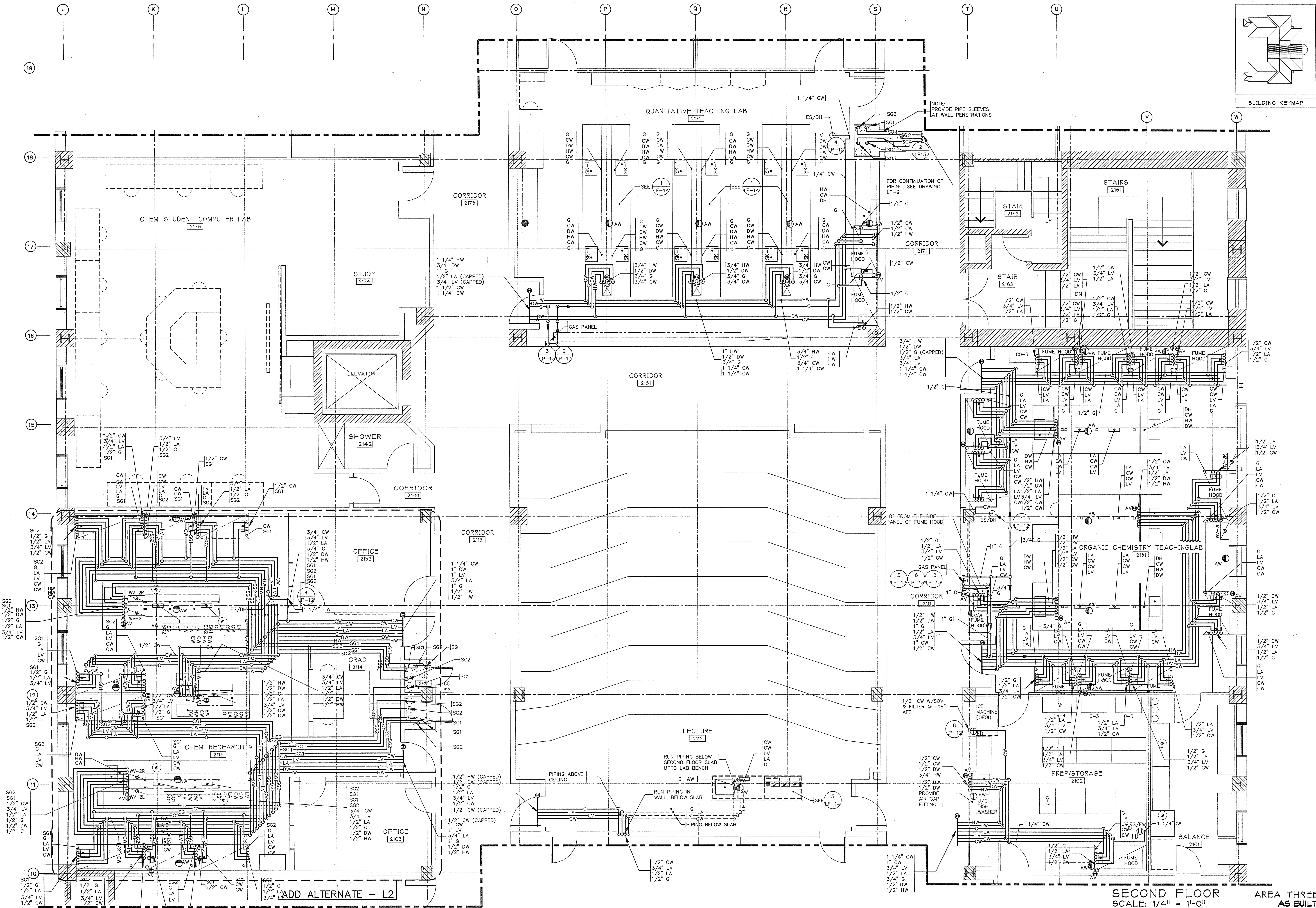
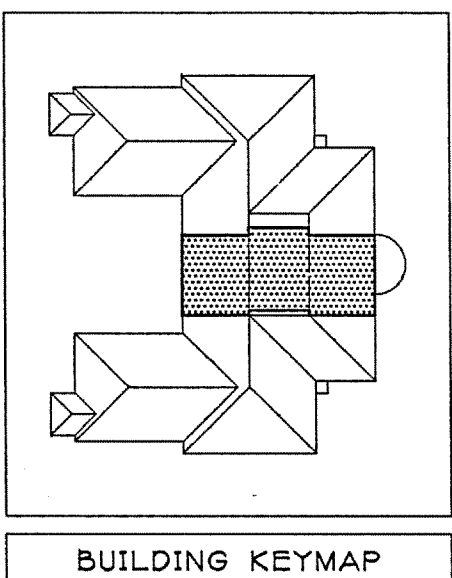


SCIENCE BUILDING
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON
CODE 44388 ITEM 301 ID#6069280301A

SHEET TITLE:

SECOND FLOOR PLAN - AREA THREE
WEST

SHEET NO.:
LP8

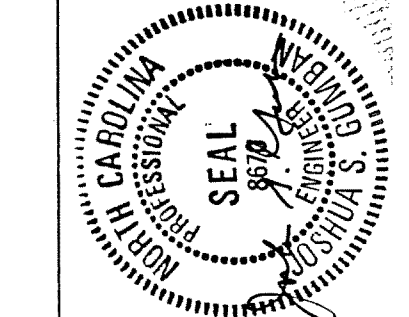


SECOND FLOOR
SCALE: 1/4" = 1'-0"

WALL
Earl Walls Associates
Laboratory Design Consultants
3348 Carroll Canyon Road
San Diego, California 92121
(619)457-2400

DRAWING REVISIONS:		
NO.	DATE	REMARKS

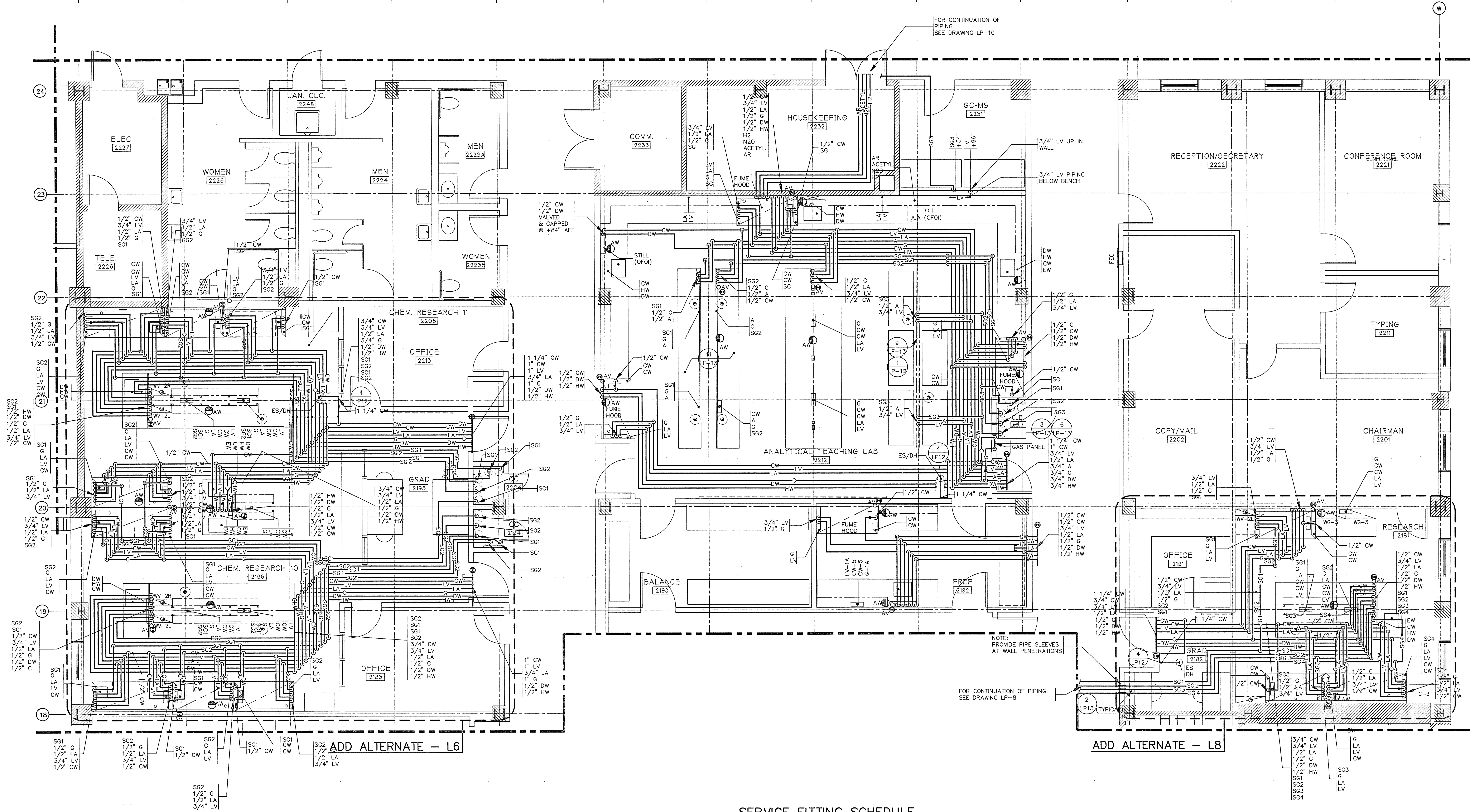
DATE: 5/16/94
PROJECT#: 8962
DESIGNED BY: AMA
DRAWN BY: AMA
CHECKED BY: ARW



SCIENCE BUILDING
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON
CODE 44388 ITEM 301 ID#608928030A

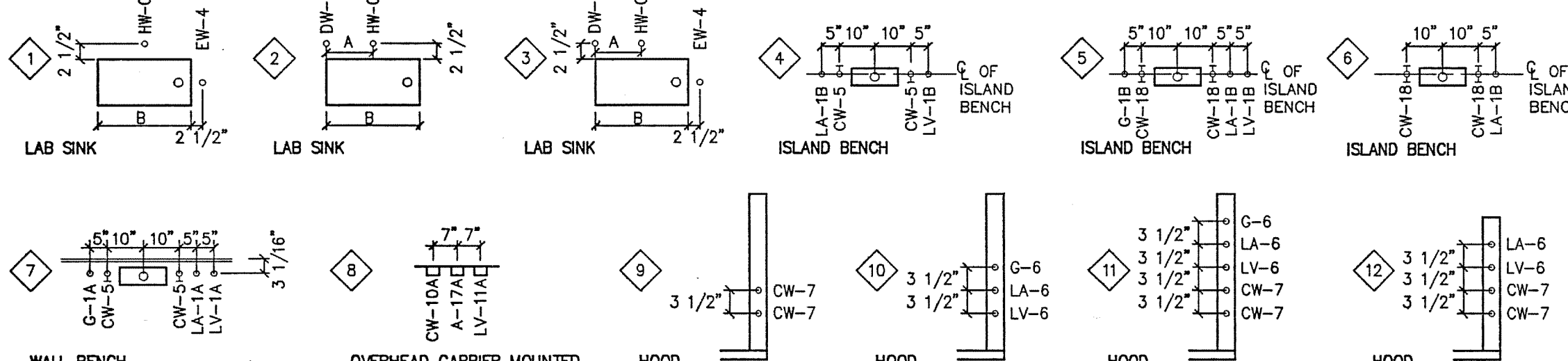
SWEET TITLE:

SECOND FLOOR PLAN - AREA FOUR



SERVICE FITTING SCHEDULE

EXAMPLE:
G-1A INDICATES TYPE OF FITTING ABBREVIATED INDIVIDUALLY ON FLOOR PLANS.
LA-1C NUMERICAL REFERENCE OF FITTING ELEV. SEE DRAWING LF-16.
FITTINGS MAY ALSO BE INDICATED INDIVIDUALLY ON FLOOR PLANS.
A = 7" IF B = 21" OR LESS
A = 9" IF B > 21"



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

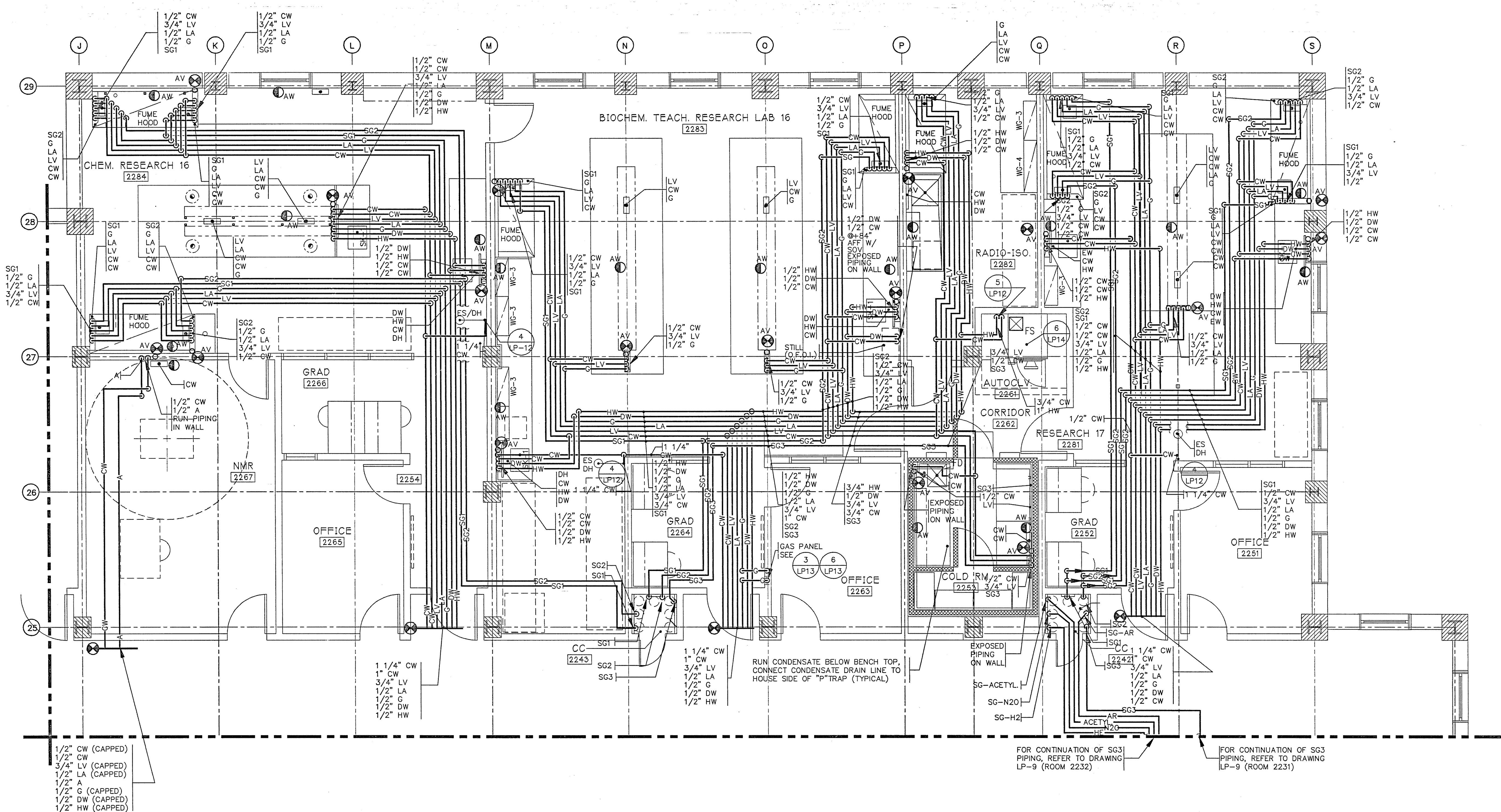
AREA FOUR
AS BUILT

DRAWING REVISIONS:		
NO.	DATE:	REMARKS:

DATE: 5/16/94
PROJECT#: 8962
DESIGNED BY: AMA
DRAWN BY: AMA
CHECKED BY: ARW
CHECKED BY:

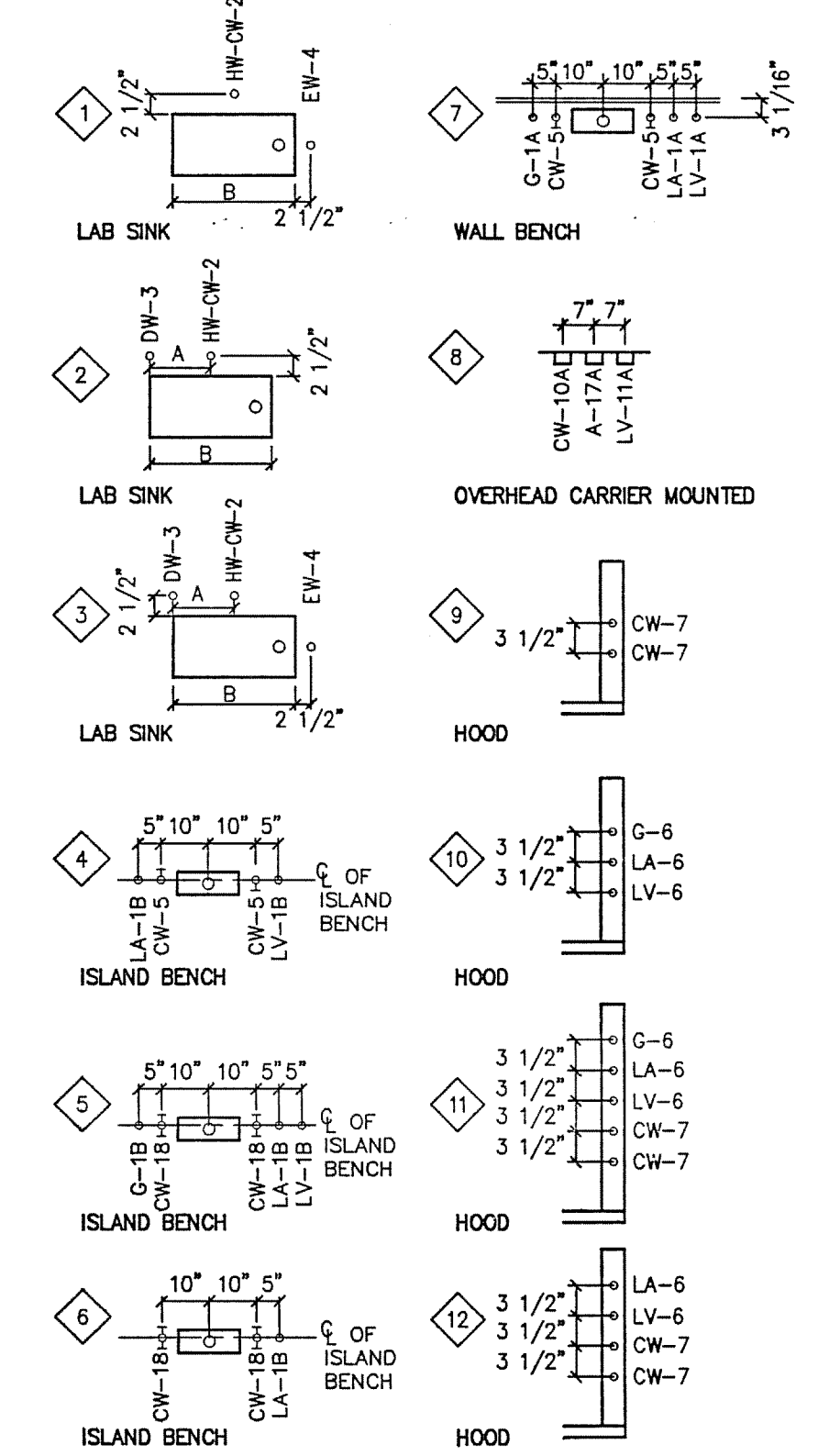
SHEET NO.:

LP9



SERVICE FITTING SCHEDULE

EXAMPLE: FITTINGS MAY ALSO BE INDICATED INDIVIDUALLY ON FLOOR PLANS.
LA-10- NUMERICAL REFERENCE OF FITTING ELEV. A = 7" IF B = 21" OR LESS
SEE DRAWING LF-16. A = 9" IF B > 21"



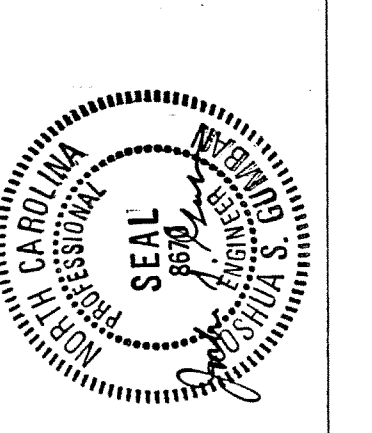
SECOND FLOOR
SCALE: 1/4" = 1'-0"

AREA FIVE
AS BUILT

DRAWING REVISIONS:		
NO.	DATE	REMARKS

DATE: 5/16/94
PROJECT#: 8962
DESIGNED BY: AMA
DRAWN BY: AMA
CHECKED BY: ARW

JEFFERIES AND FARIS ASSOCIATES
ARCHITECTS • PLANNERS
SEA TOWERS SUITE 201
2002 EASTWOOD ROAD
WILMINGTON, N.C. 28403
TEL: 910.256.6633
FAX: 910.256.9088



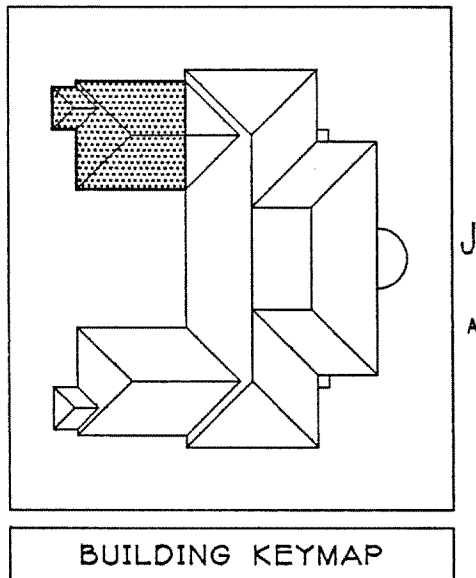
SCIENCE BUILDING
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON
CODE 49300 ITEM 301 ID#6089280801A

SHEET TITLE:

SECOND FLOOR PLAN - AREA FIVE
EAST

SHEET NO.:

LP10



JEFFERIES AND FARIS
ASSOCIATES
ARCHITECTS • PLANNERS
SEA TOWERS, SUITE 201
2002 EASTWOOD ROAD
WILMINGTON, N.C. 28403
TEL: 910.256.6633
FAX: 910.256.9088



SCIENCE BUILDING
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON
CODE 49366 ITEM 301 ID#6089280301A

SHEET TITLE:

SECOND FLOOR PLAN - AREA SIX
EAST

AREA SIX
AS BUILT

SHEET NO.:
LP11

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

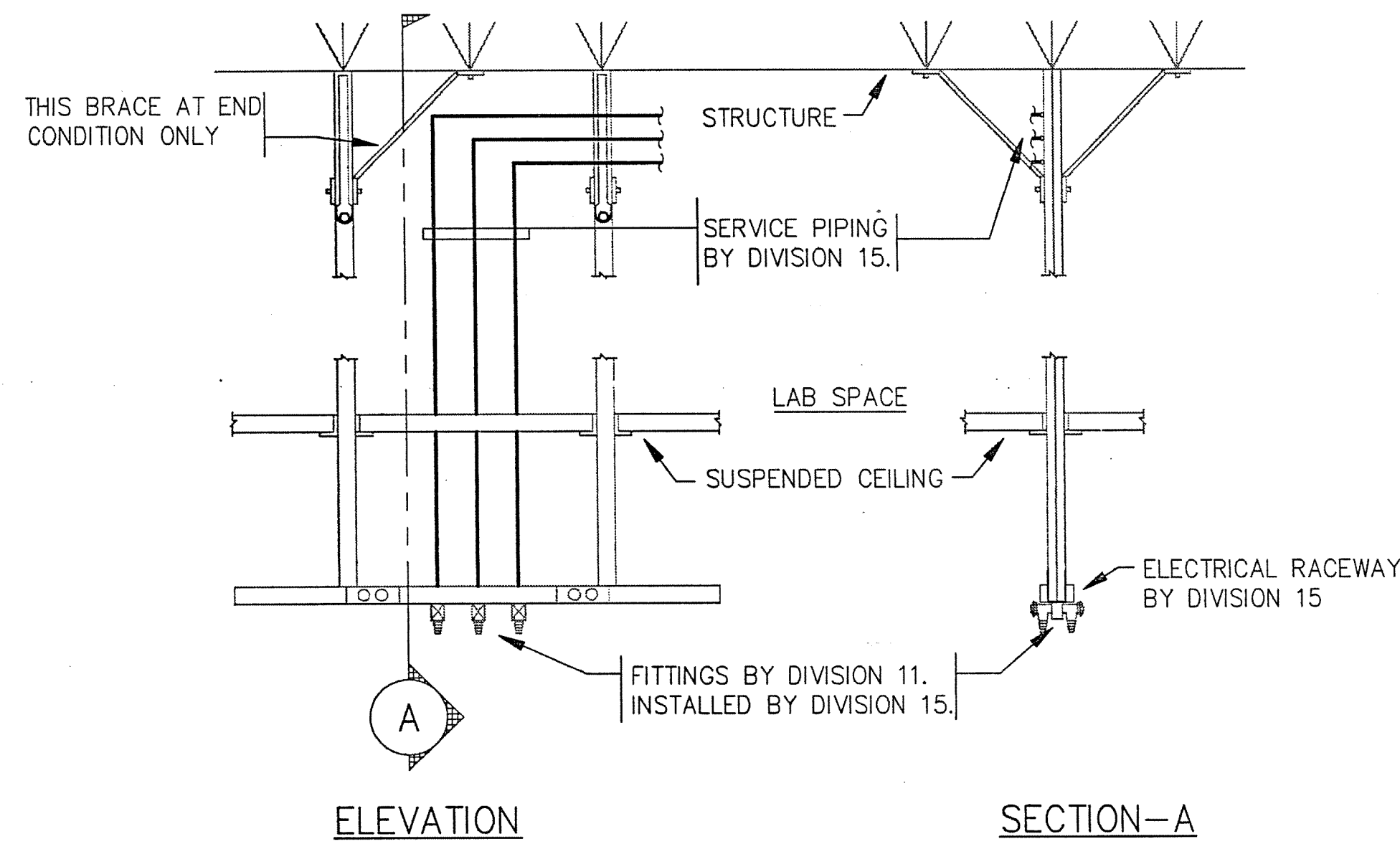
DRAWING REVISIONS:	
NO.	REMARKS
9-15-95	REVISED CLEAN ROOM 2257
NOTE: DRAWING NOT ISSUED WITH CHANGES AS/9-15-95	

DATE: 5/16/94
PROJECT#: 8962
DESIGNED BY: AMA
DRAWN BY: AMA
CHECKED BY: ARW

Earl Walls
Earl Walls Associates
Laboratory Design Consultants
5348 Carroll Canyon Road
San Diego, California 92121
(619)457-2400

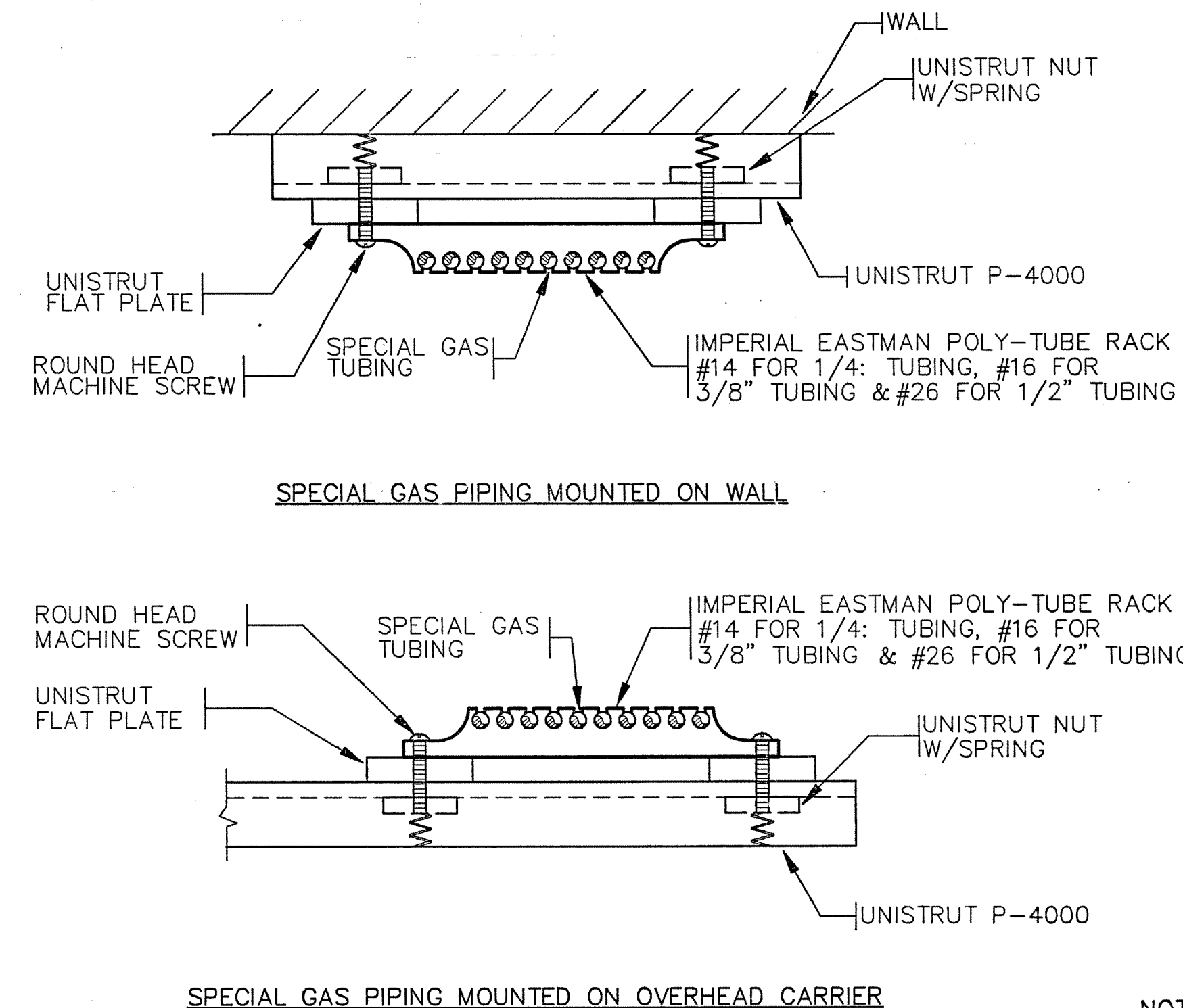
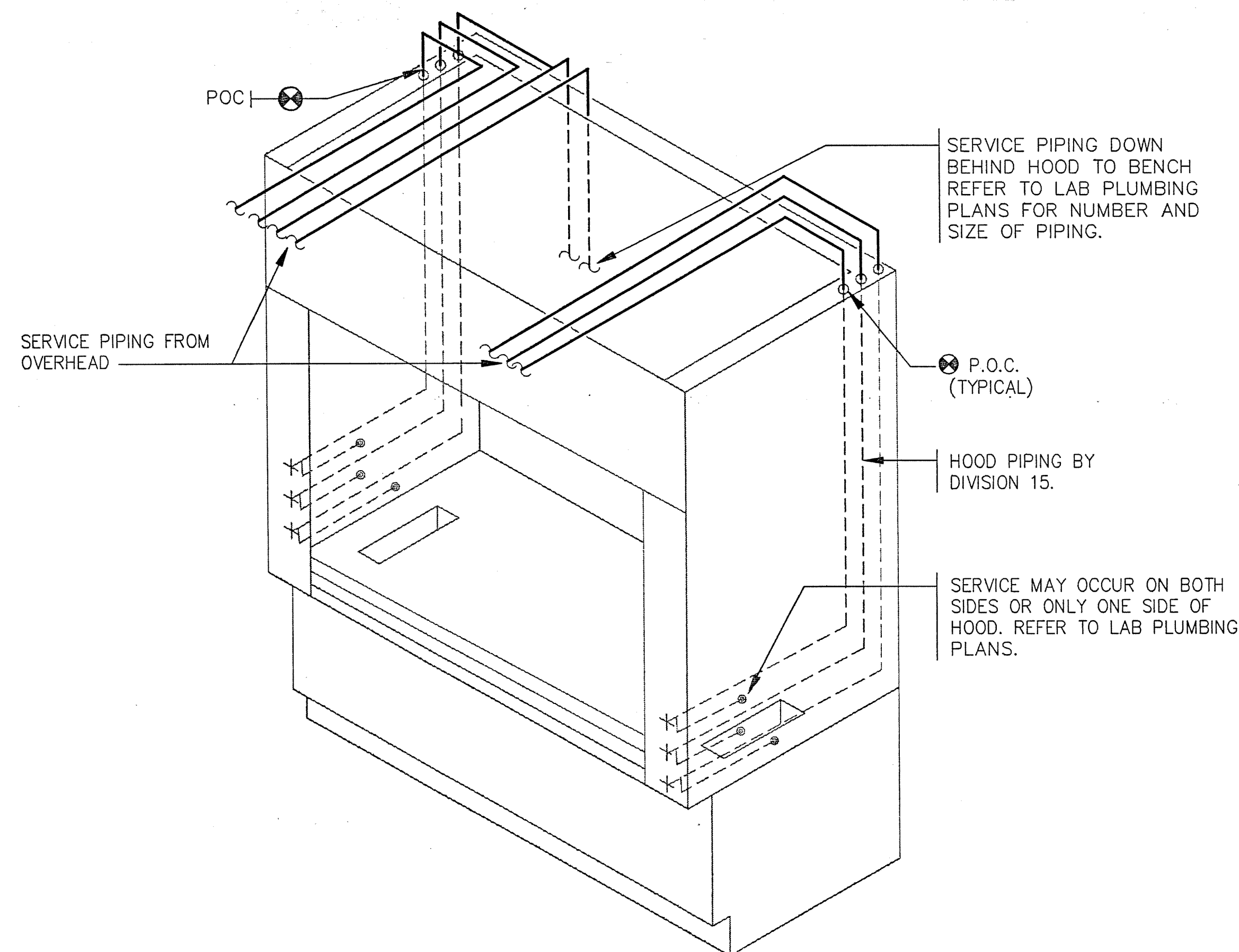
ADD ALTERNATE - L4

ADD ALTERNATE - L8



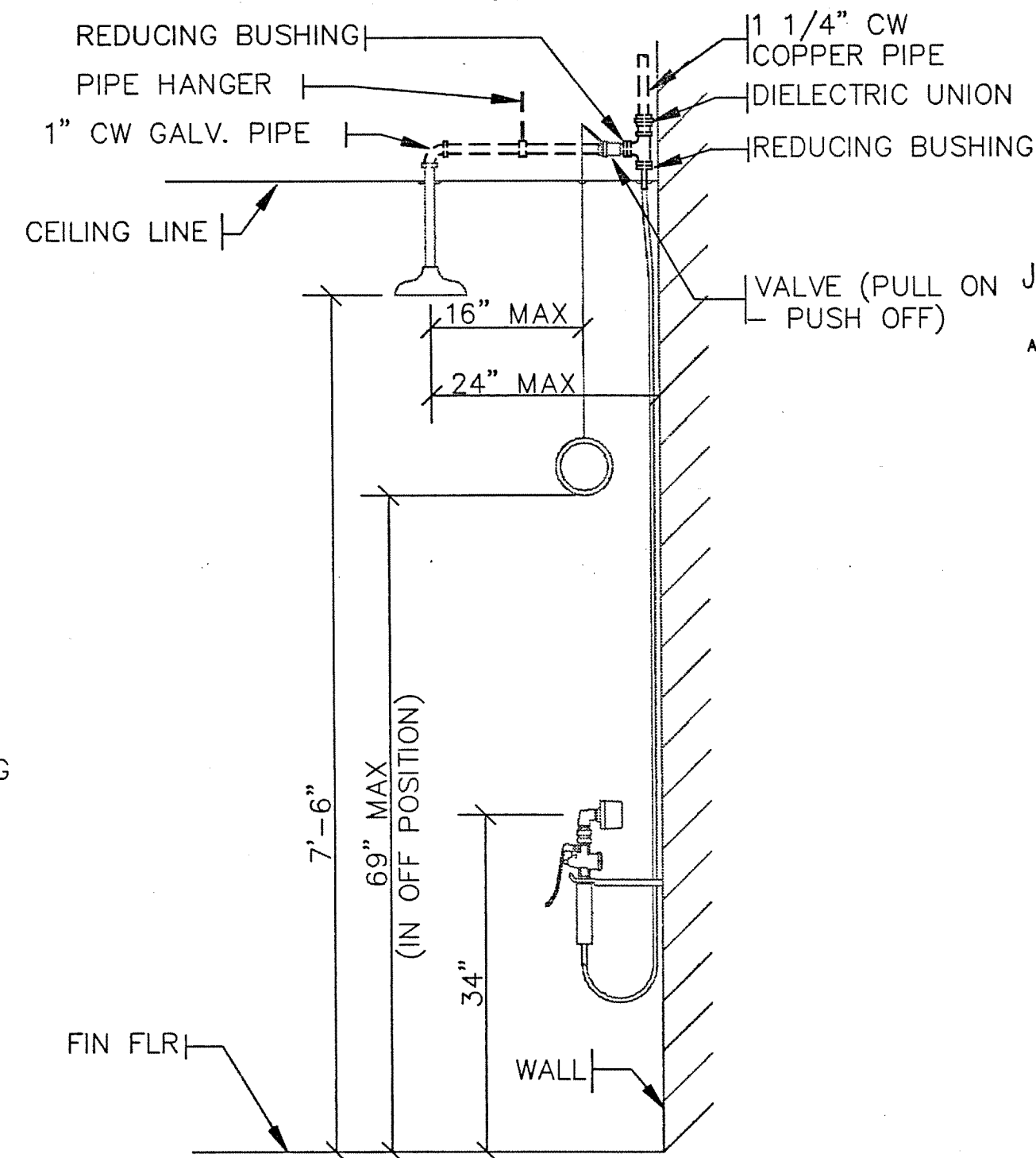
NOTES:

1. NUMBER AND SIZE OF PIPING MAY VARY. REFER TO LAB PLUMBING FLOOR PLANS FOR SERVICES AT EACH CARRIER.
2. CARRIER BY DIVISION 11.



NOTES:

1. SOLID LINES INDICATE FITTINGS AND DEVICES BY THE DIVISION 11, FITTINGS INSTALLED BY DIVISION 15.
2. DASHED LINES INDICATE FITTINGS AND DEVICES BY DIVISION 15.
3. REFER TO LABORATORY FURNISHINGS DRAWINGS FOR ADDITIONAL INSTALLATION DETAILS.



1 OVERHEAD SERVICE CARRIER

NO SCALE

EARL WALLS ASSOCIATES © 1994

2 PRE-PLUMBED HOOD PIPING CONNECTIONS

NOT TO SCALE

EARL WALLS ASSOCIATES © 1994

3 SPECIAL GAS MOUNTING DETAIL

NO SCALE

EARL WALLS ASSOCIATES © 1994

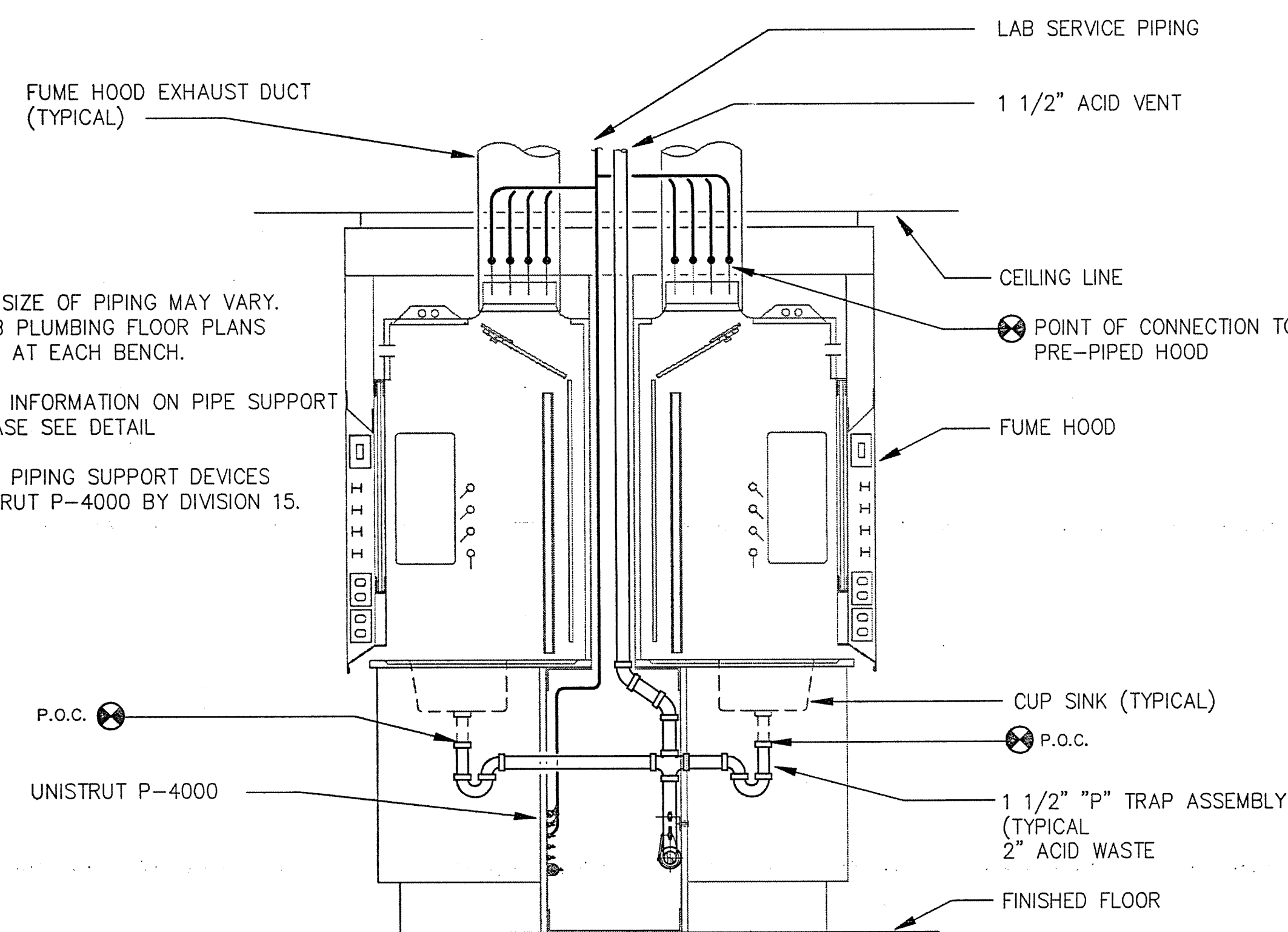
4 EMERGENCY SHOWER - DRENCH HOSE

NOT TO SCALE

EARL WALLS ASSOCIATES © 1994

NOTES:

1. NUMBER AND SIZE OF PIPING MAY VARY. REFER TO LAB PLUMBING FLOOR PLANS FOR SERVICES AT EACH BENCH.
2. FOR DETAILED INFORMATION ON PIPE SUPPORT IN PIPING CHASE SEE DETAIL.
3. ALL UNISTRUT PIPING SUPPORT DEVICES EXCEPT UNISTRUT P-4000 BY DIVISION 15.



5

LAB PIPING AT ISLAND BENCH WITH HOOD CROSS-SECTION

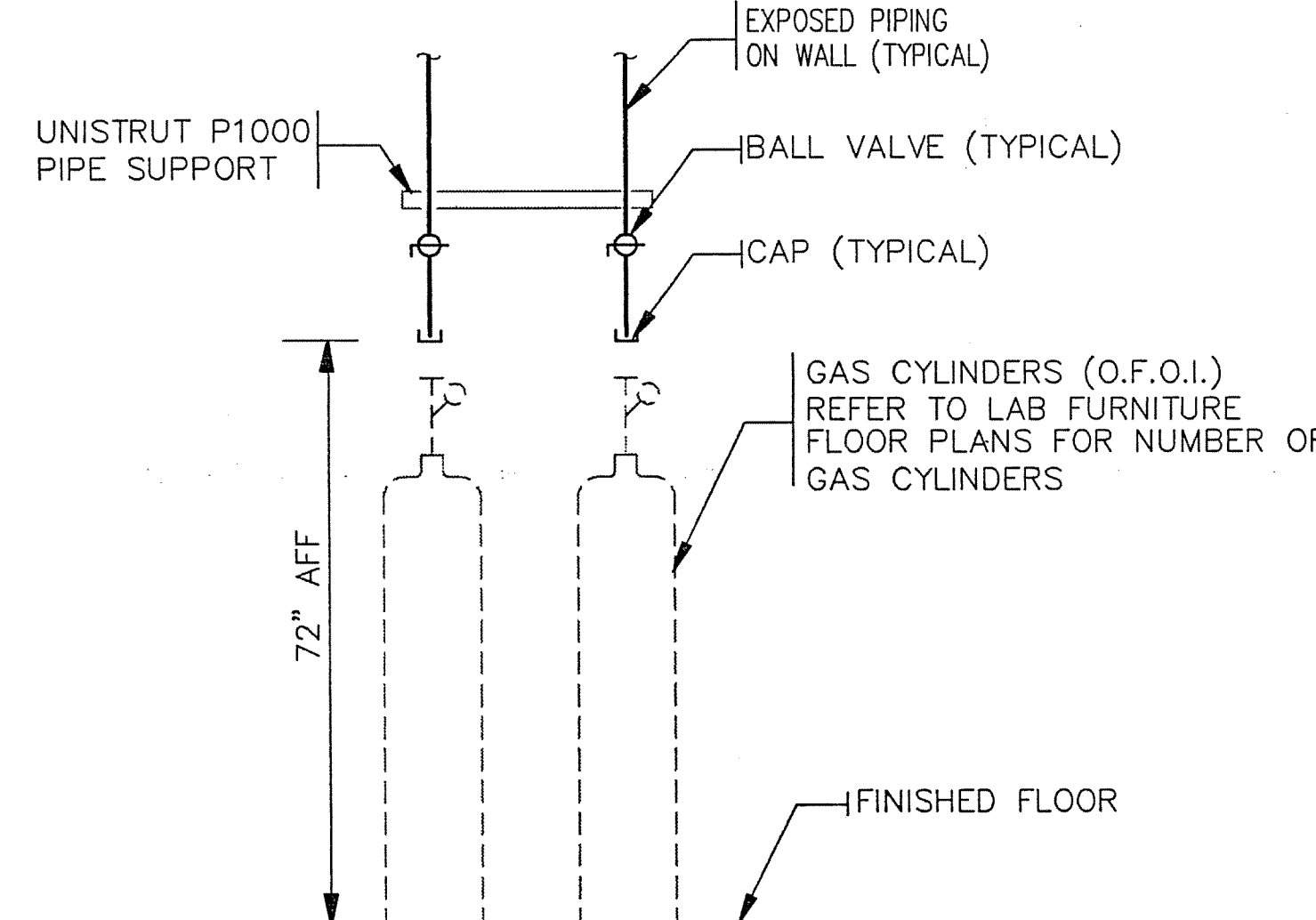
NOT TO SCALE

EARL WALLS ASSOCIATES © 1994

6 CYLINDER GAS DETAIL

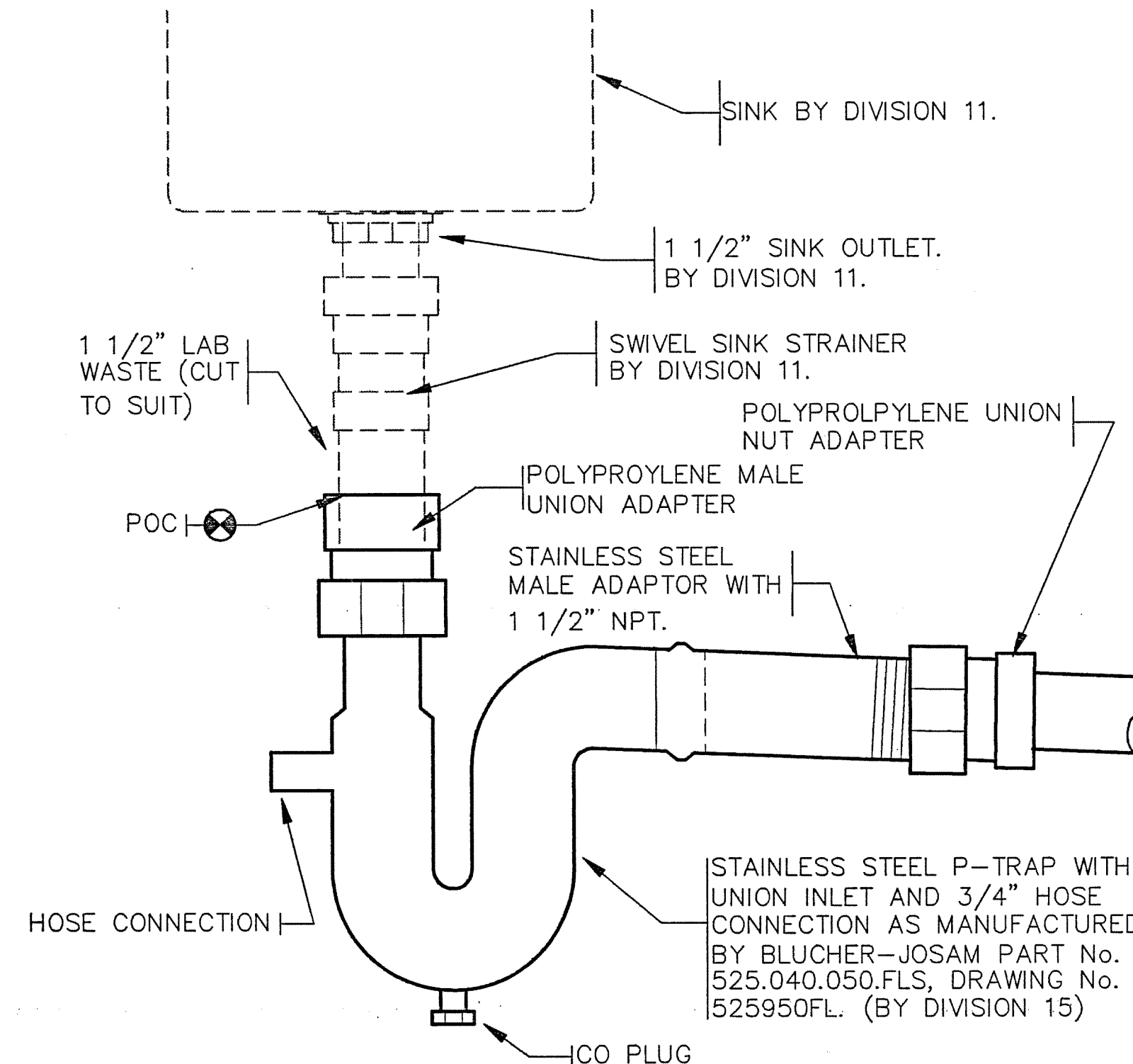
NOT TO SCALE

EARL WALLS ASSOCIATES © 1994



NOTES:

1. ALL CYLINDERS, MANIFOLDS, REGULATOR & ETC. ARE FOR REFERENCE ONLY. THEY ARE TO BE O.F.O.I.
2. FOR CYLINDER STRAP DETAIL, SEE LAB DETAIL SHEET.



7 LAB SINK CONNECTION WITH 3/4 HOSE CONNECTION

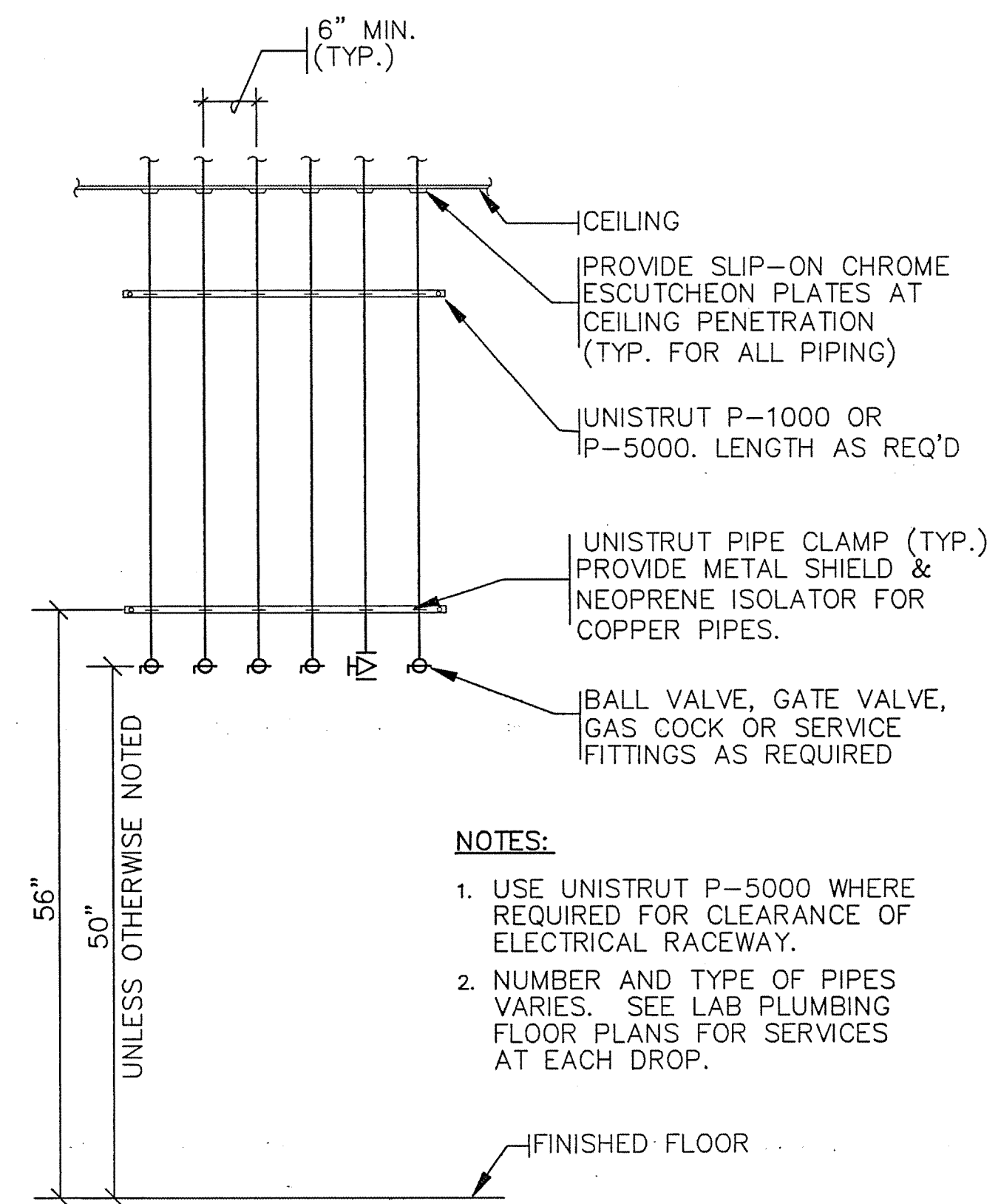
NOT TO SCALE

EARL WALLS ASSOCIATES © 1994

8 EXPOSED PIPE SUPPORT ON WALL

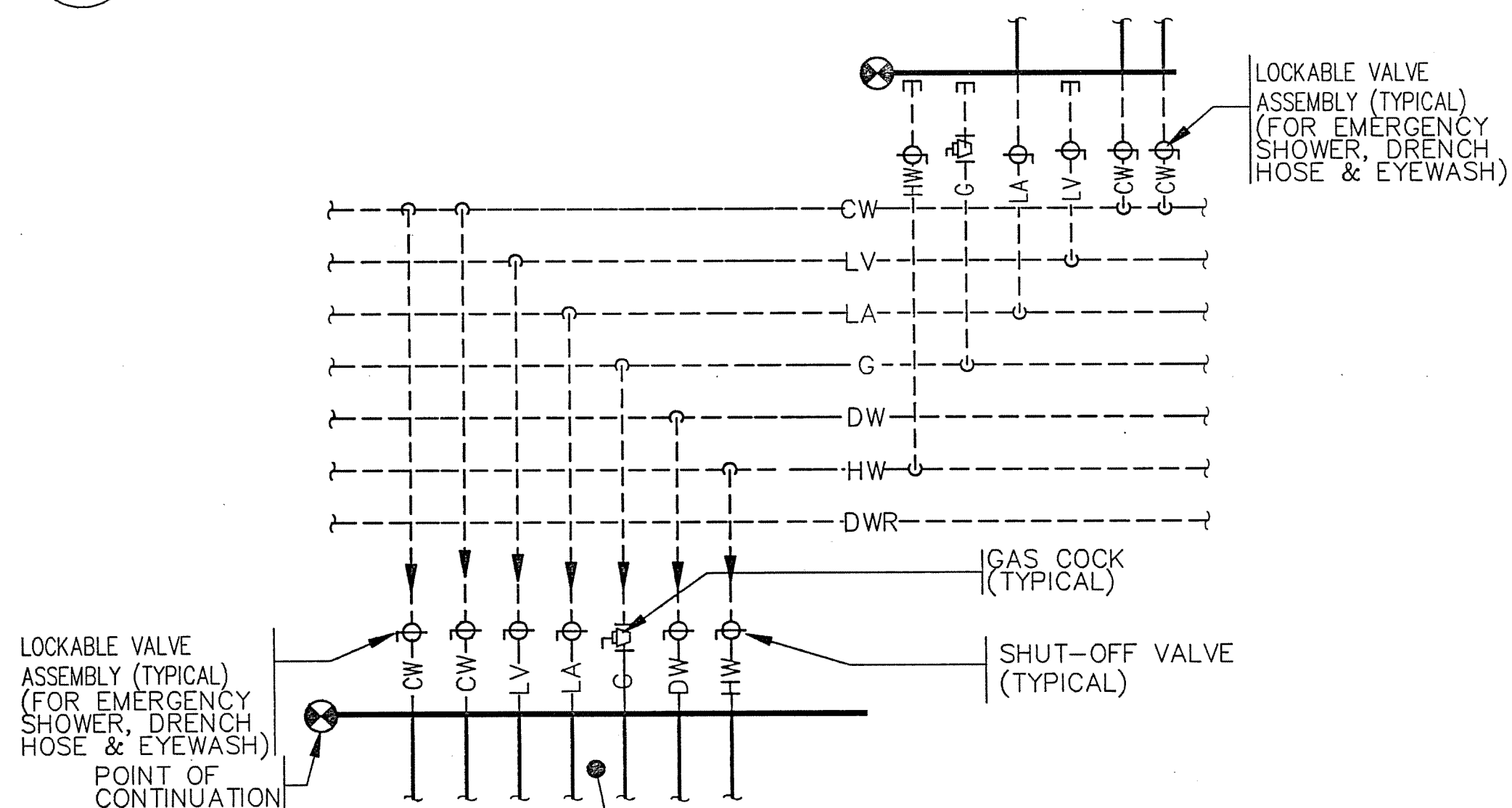
NOT TO SCALE

EARL WALLS ASSOCIATES © 1994



NOTES:

1. USE UNISTRUT P-5000 WHERE REQUIRED FOR CLEARANCE OF ELECTRICAL RACEWAY.
2. NUMBER AND TYPE OF PIPES VARIES. SEE LAB PLUMBING FLOOR PLANS FOR SERVICES AT EACH DROP.



9

LAB PIPING SEQUENCE AT MAINS & LAB BRANCH TAKE-OFF

NOT TO SCALE

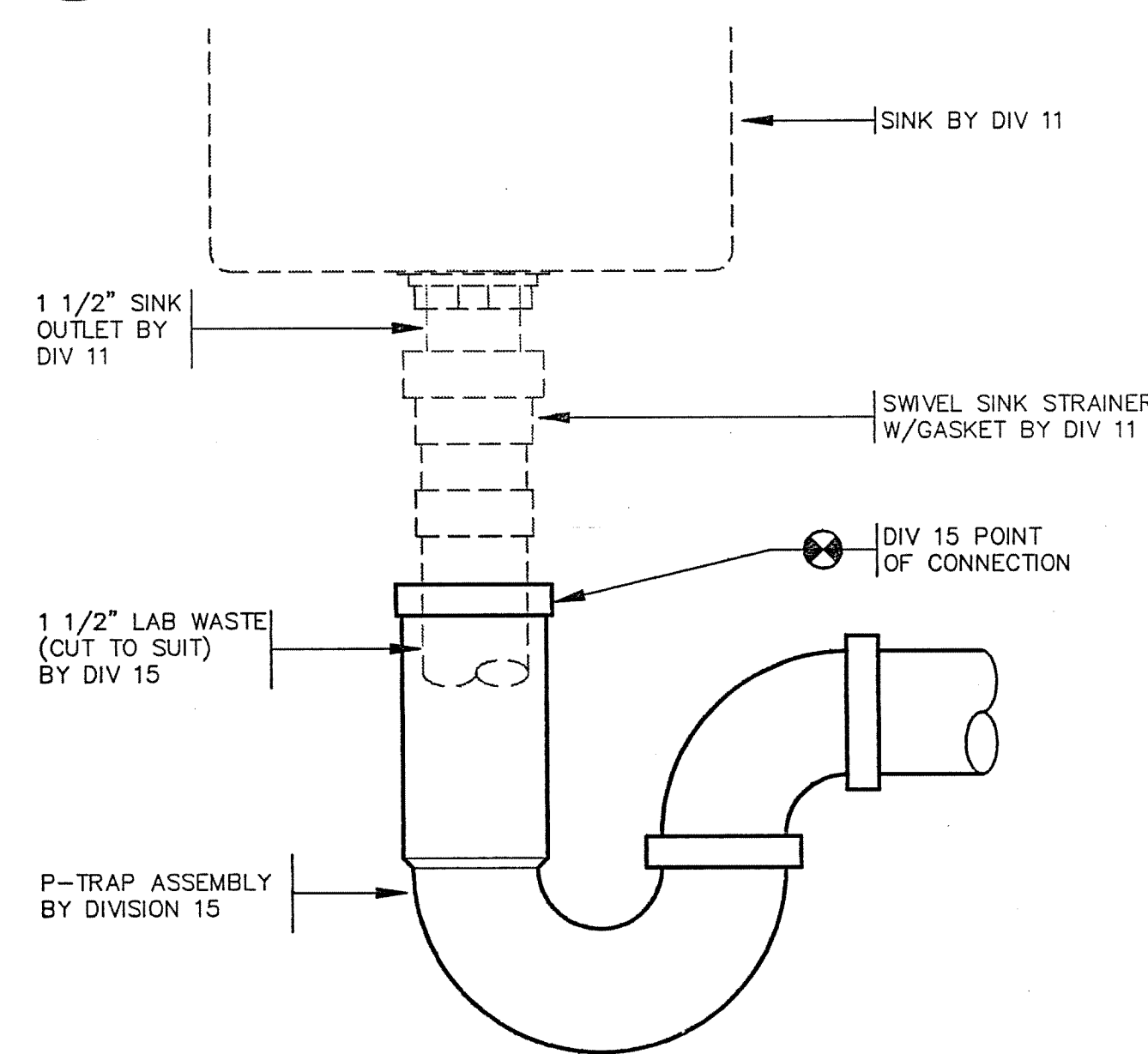
EARL WALLS ASSOCIATES © 1994

10

TYPICAL LAB SINK CONNECTION

NOT TO SCALE

EARL WALLS ASSOCIATES © 1994



DRAWING REVISIONS:		
NO.	DATE	REMARKS

DATE:	5/16/94
PROJECT#:	8962
DESIGNED BY:	AMA
DRAWN BY:	AMA
CHECKED BY:	ARW

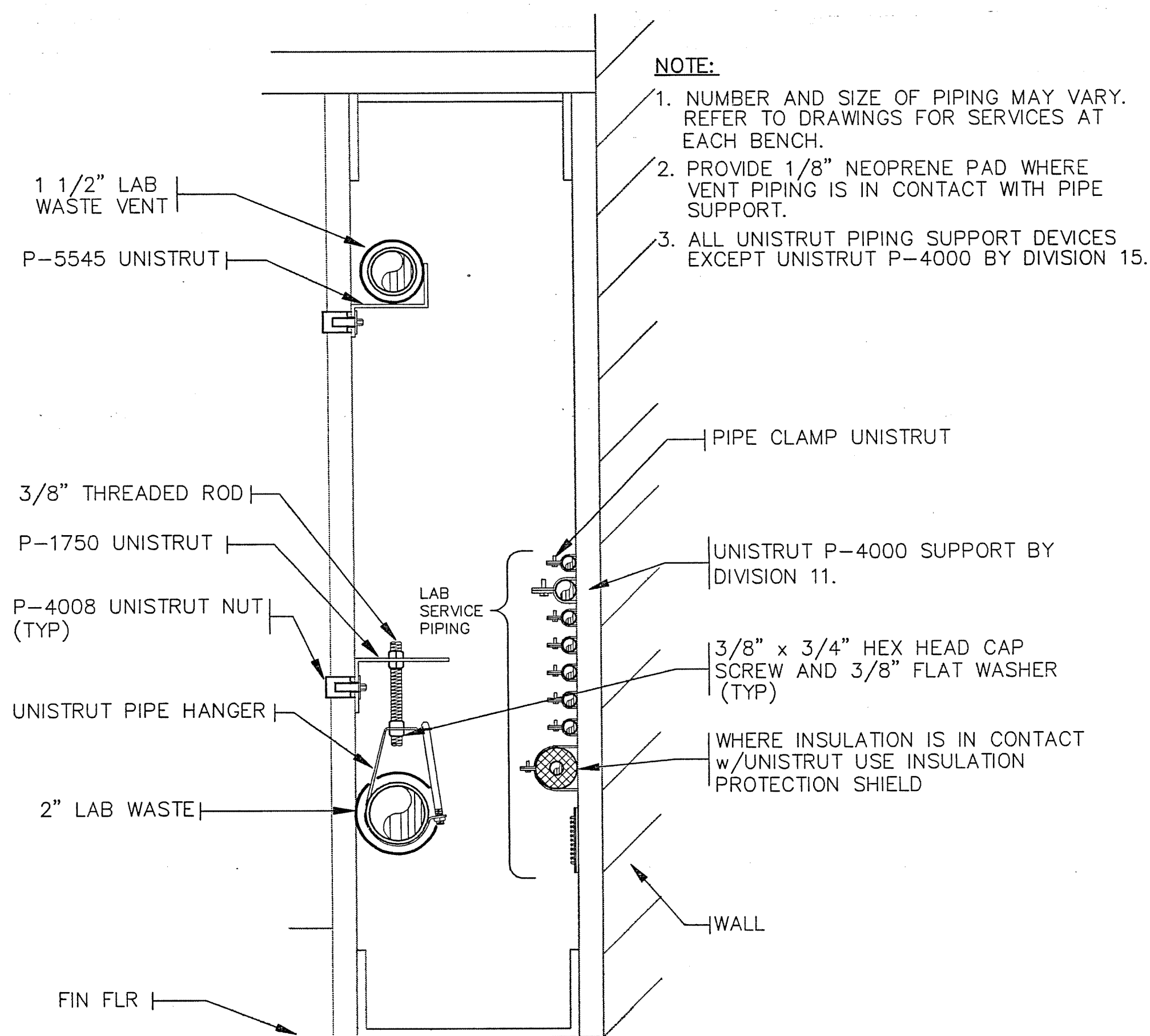
SHEET NO.:	LP12
------------	------

SCIENCE BUILDING
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON
CODE 41988 ITEM 301 ID#084280301A

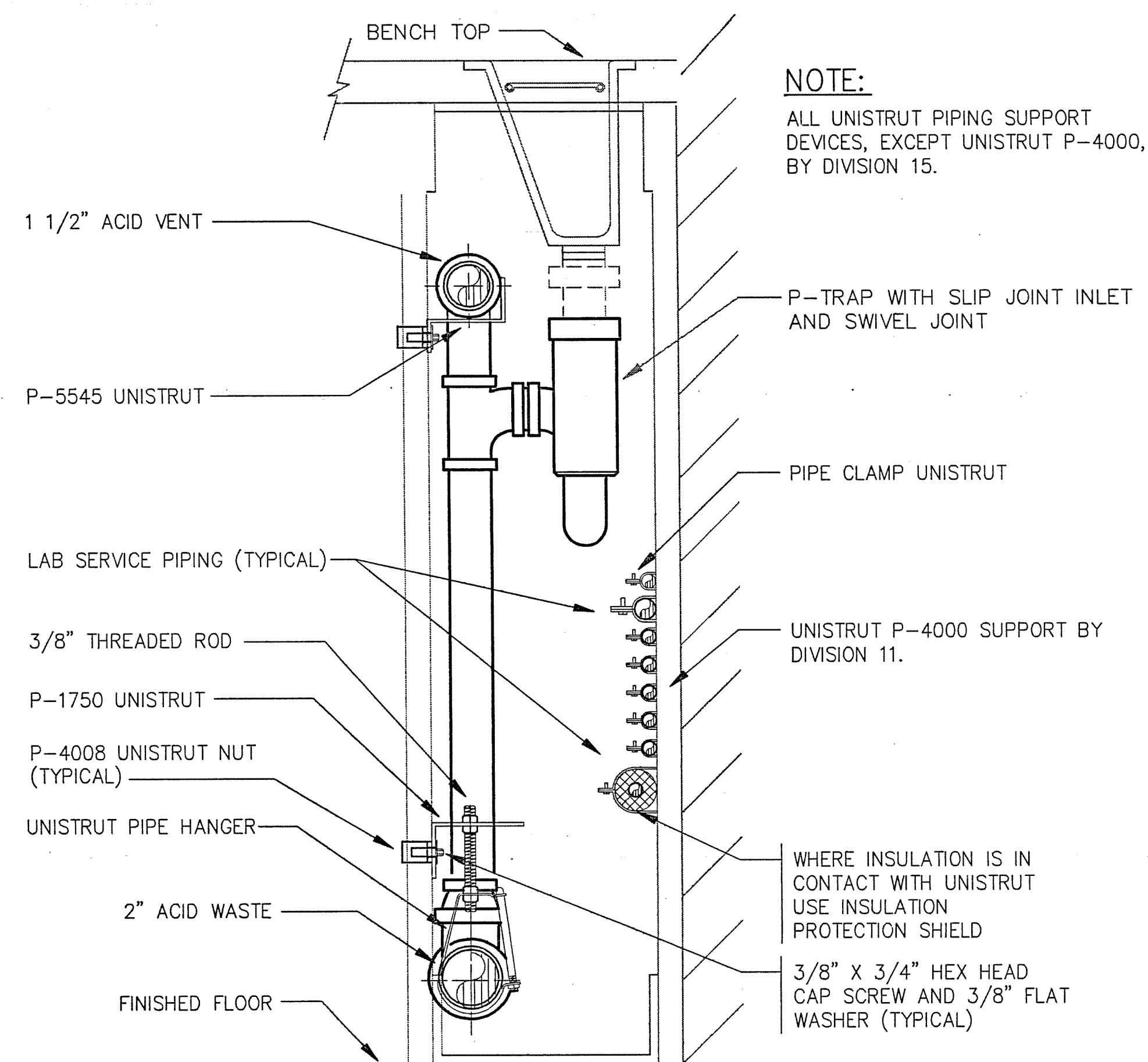
SHEET TITLE:

LAB PLUMBING
DETAILS

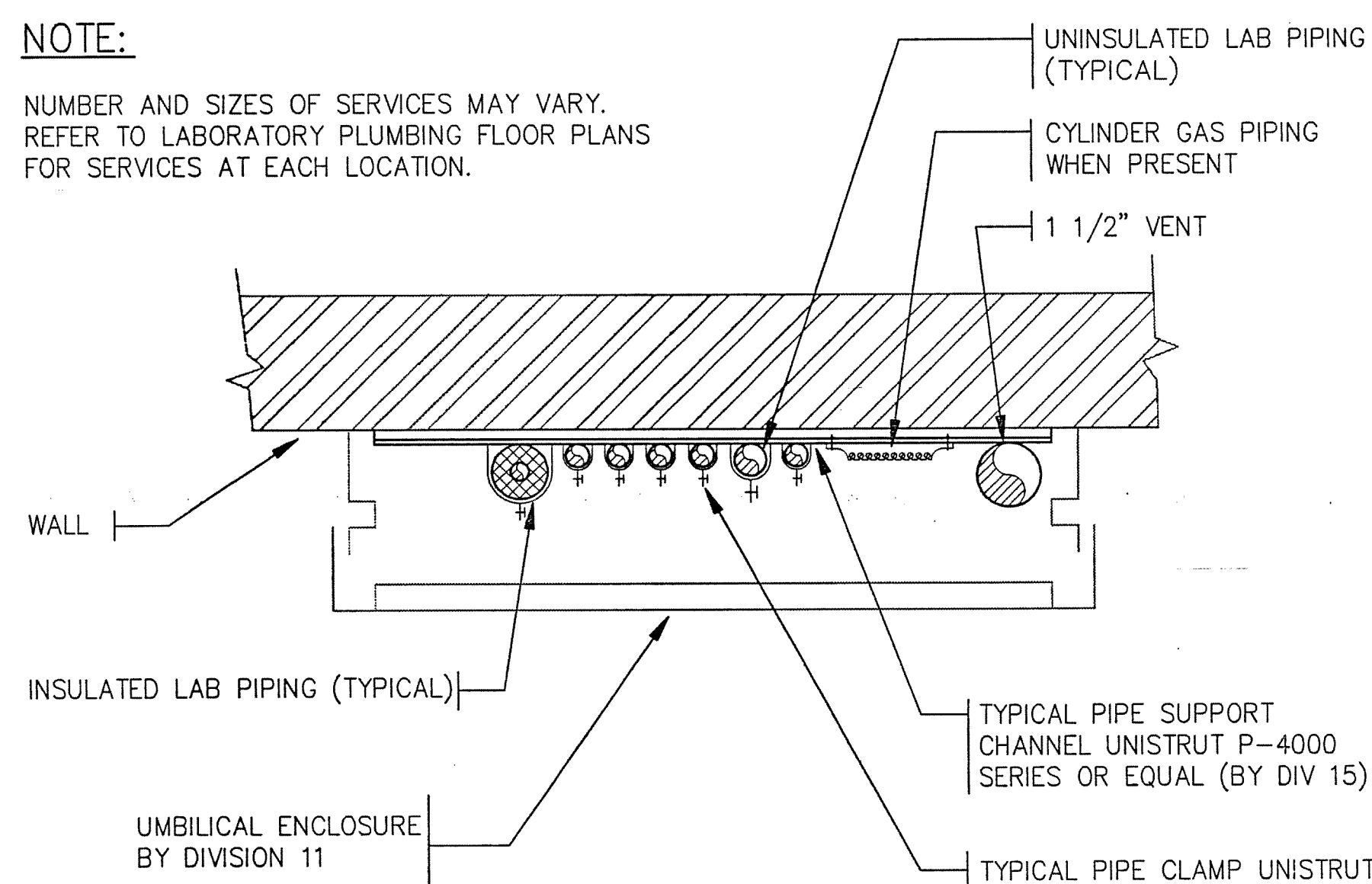
AS BUILT



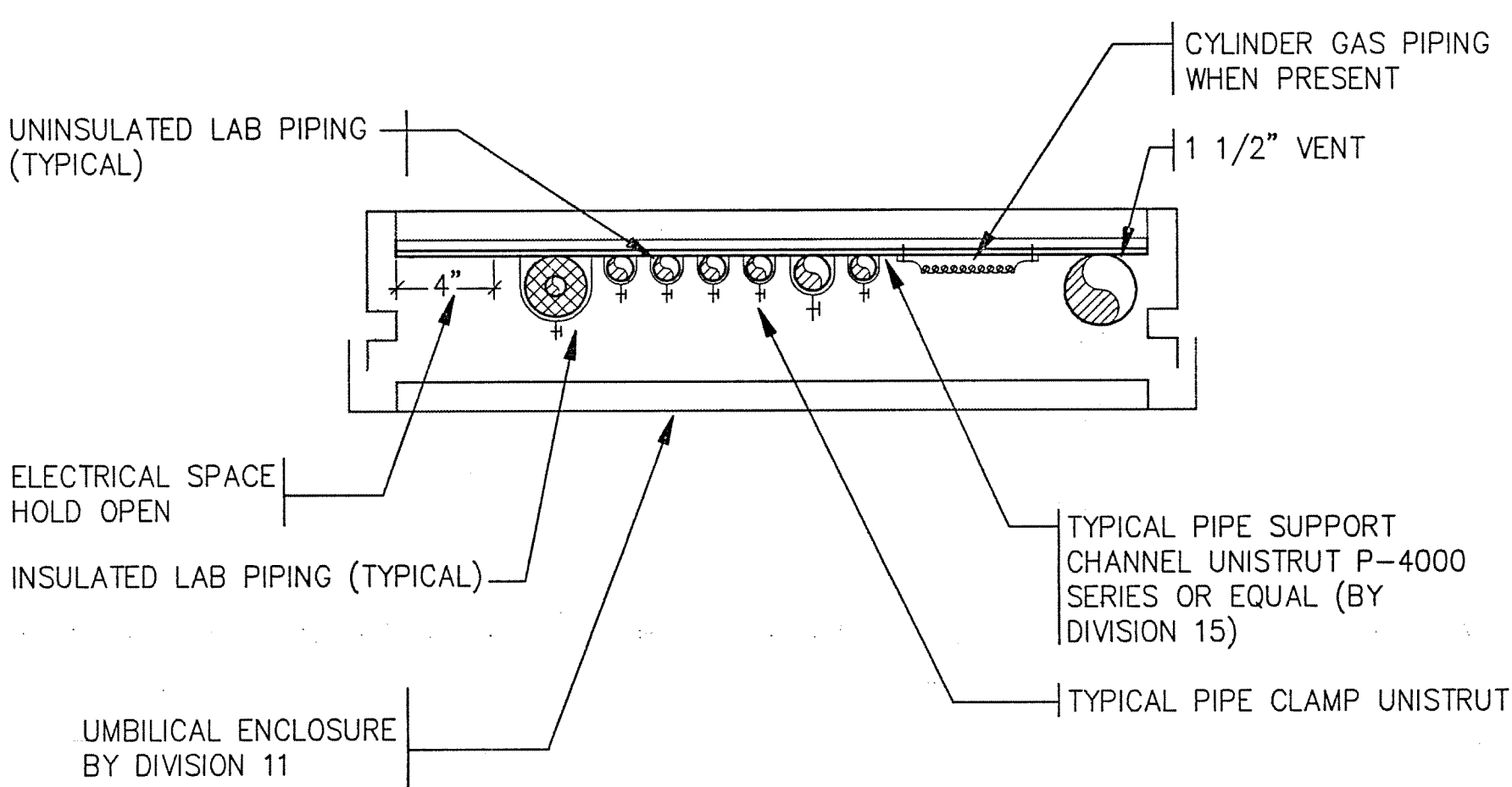
1 LAB PIPING AT WALL BENCH - PIPE CHASE SECTION
NOT TO SCALE
EARL WALLS ASSOCIATES © 1993



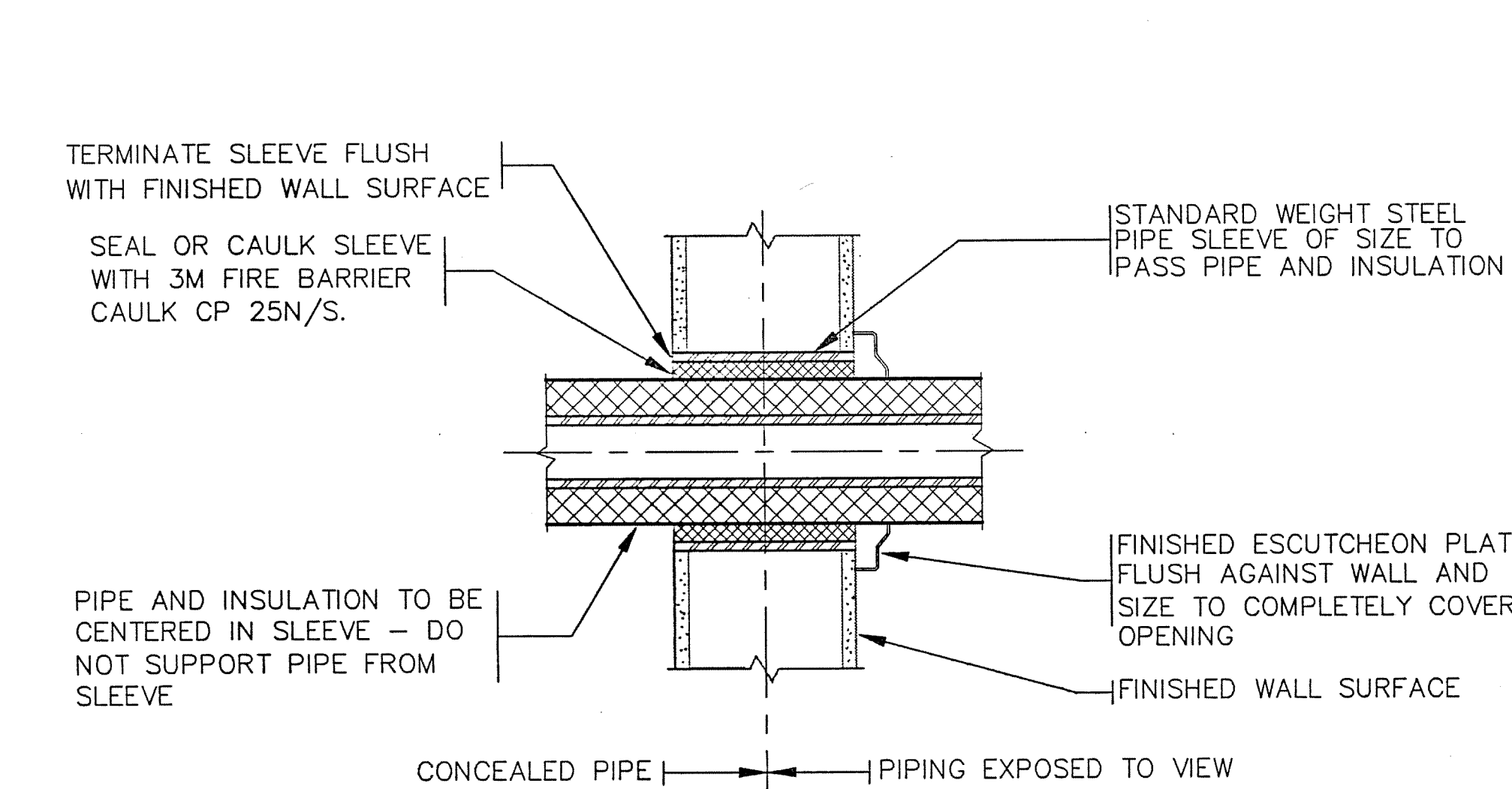
2 LAB PIPING AT WALL BENCH - PIPE CHASE SECTION
NOT TO SCALE
EARL WALLS ASSOCIATES © 1994



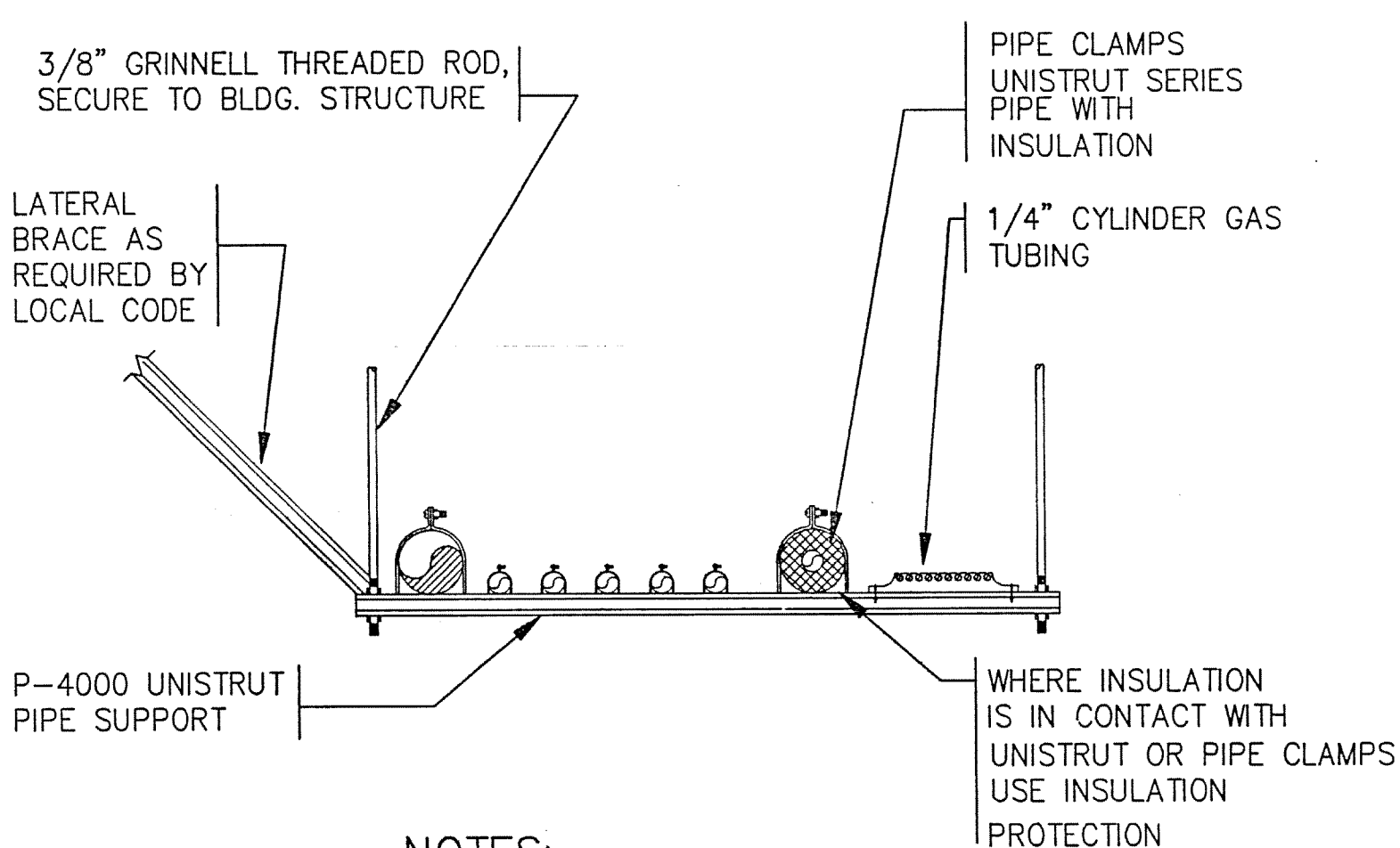
4 WALL UMBILICAL PIPING DETAIL
NOT TO SCALE
EARL WALLS ASSOCIATES © 1994



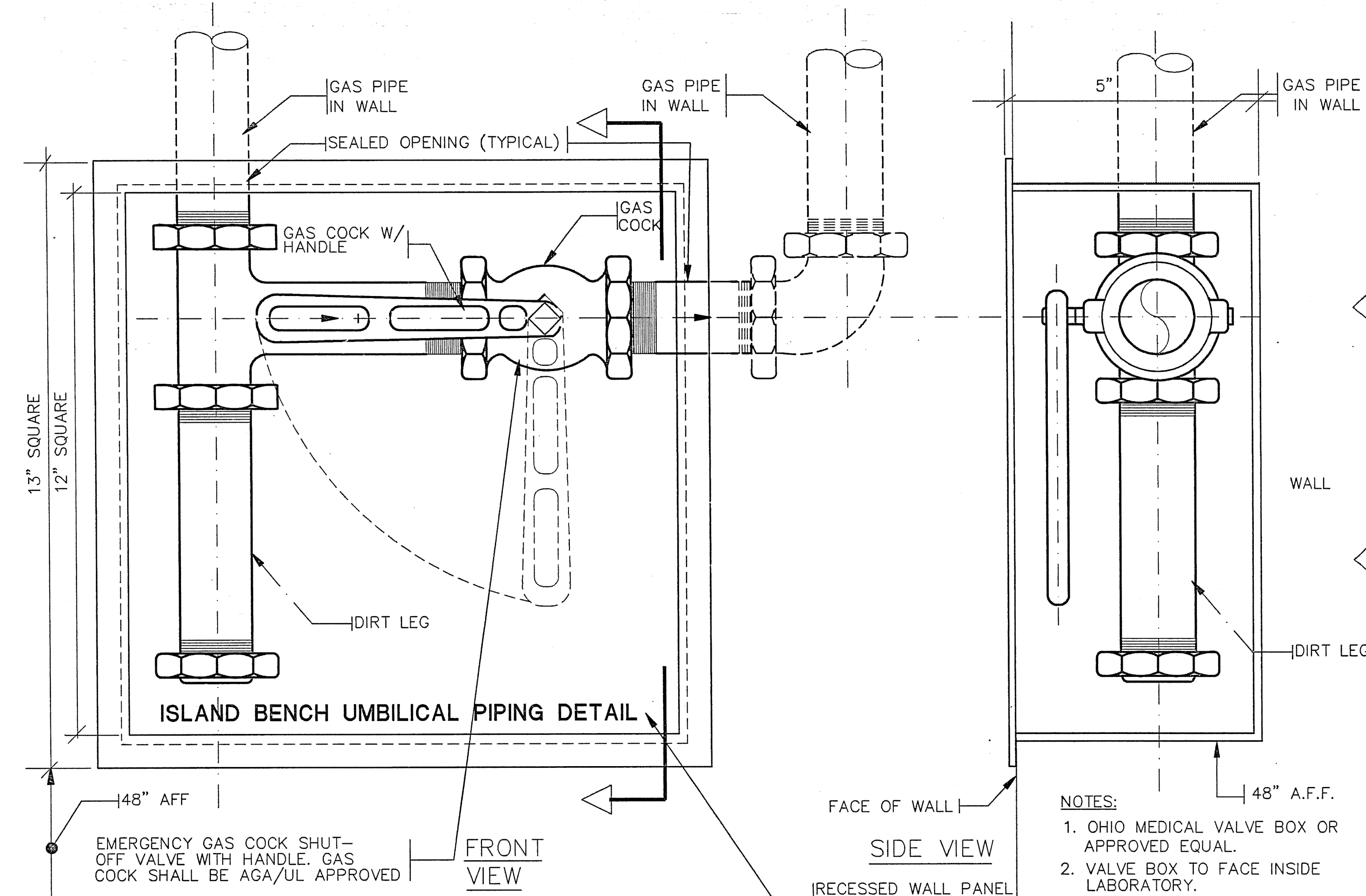
5 ISLAND BENCH UMBILICAL PIPING DETAIL
NOT TO SCALE
EARL WALLS ASSOCIATES © 1994



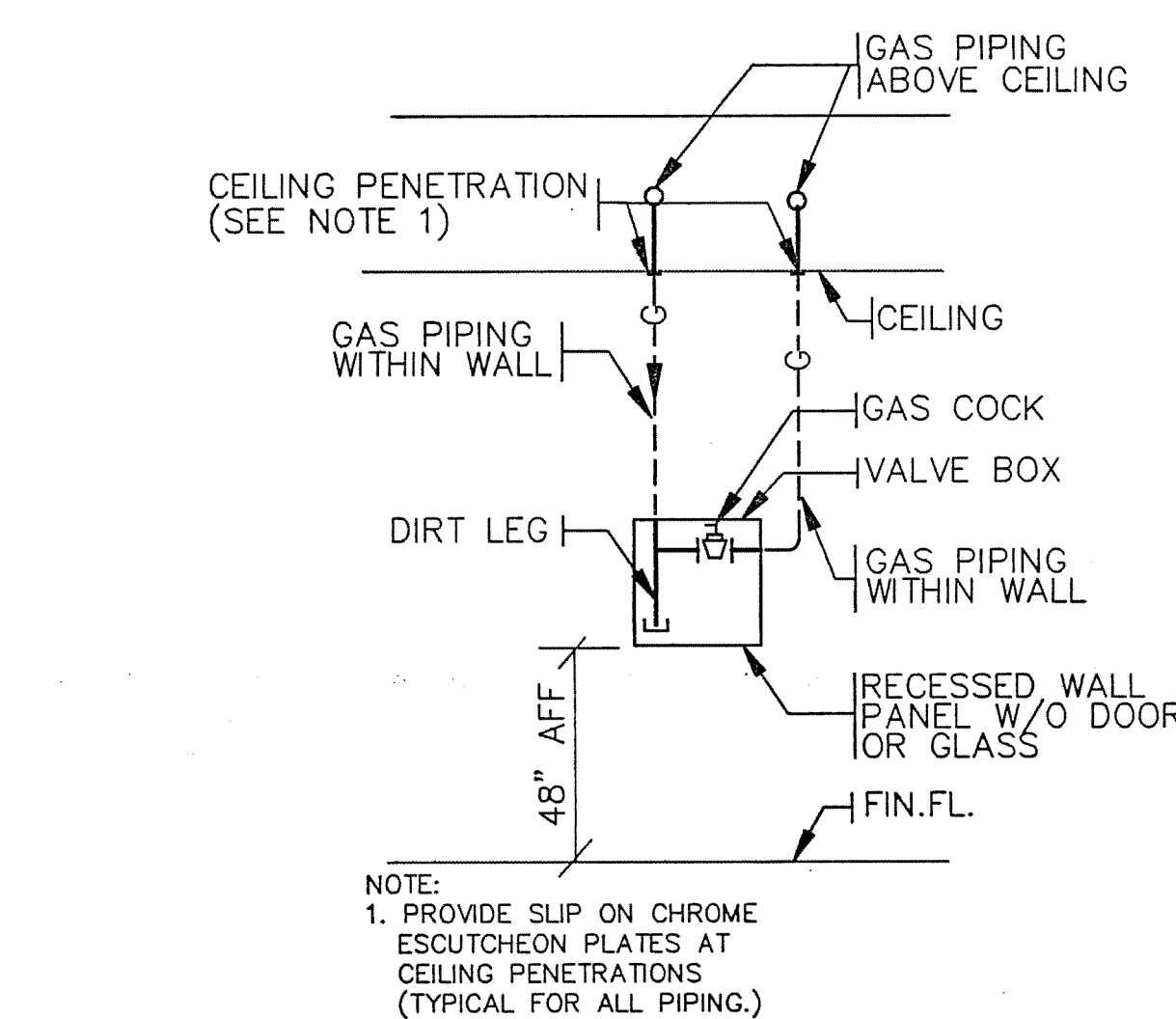
8 PIPE SLEEVES THRU WALLS
NOT TO SCALE
EARL WALLS ASSOCIATES © 1994



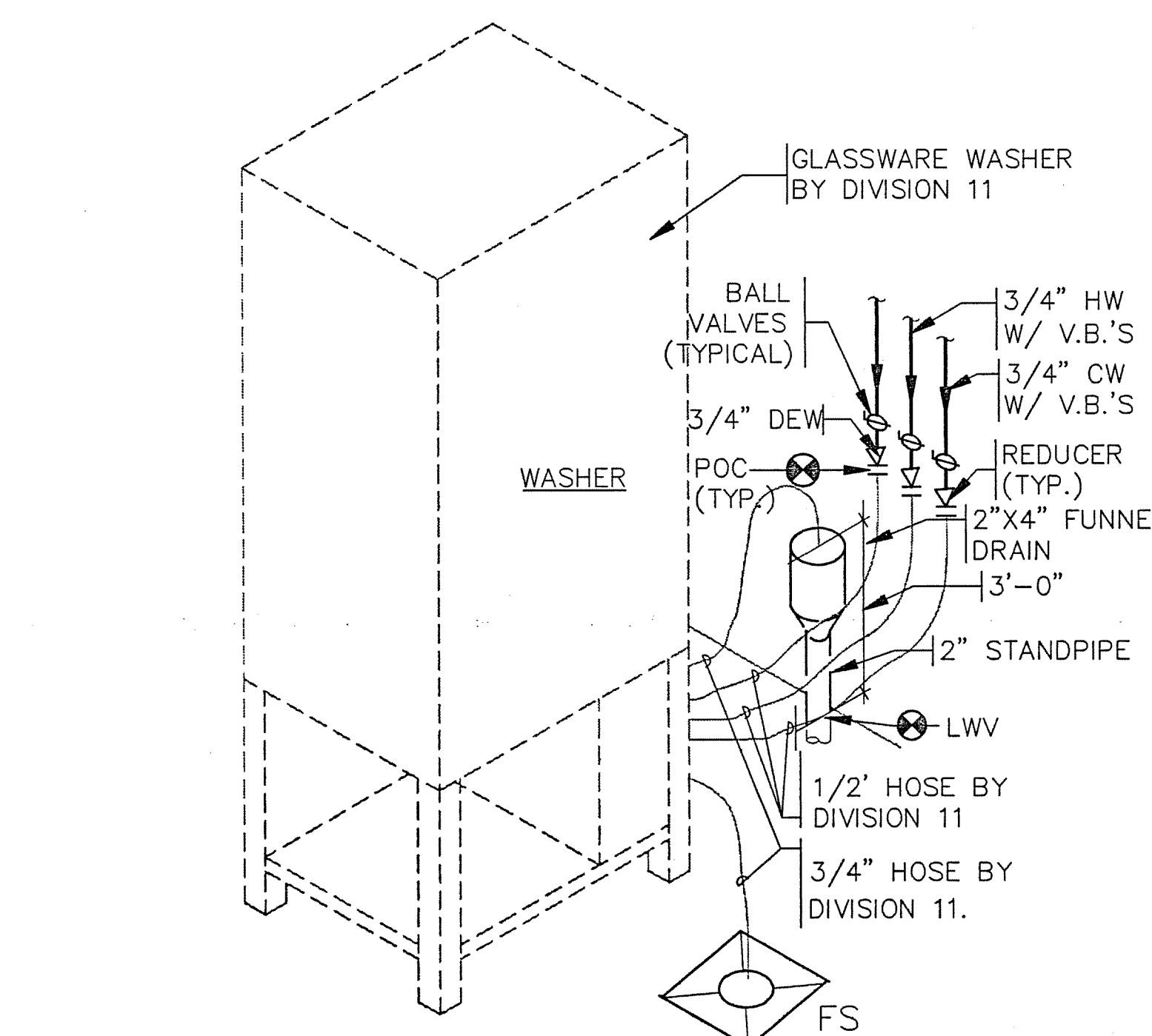
10 GAS VALVE STATION DETAIL-LABS 2071 & 2131
NOT TO SCALE
EARL WALLS ASSOCIATES © 1989



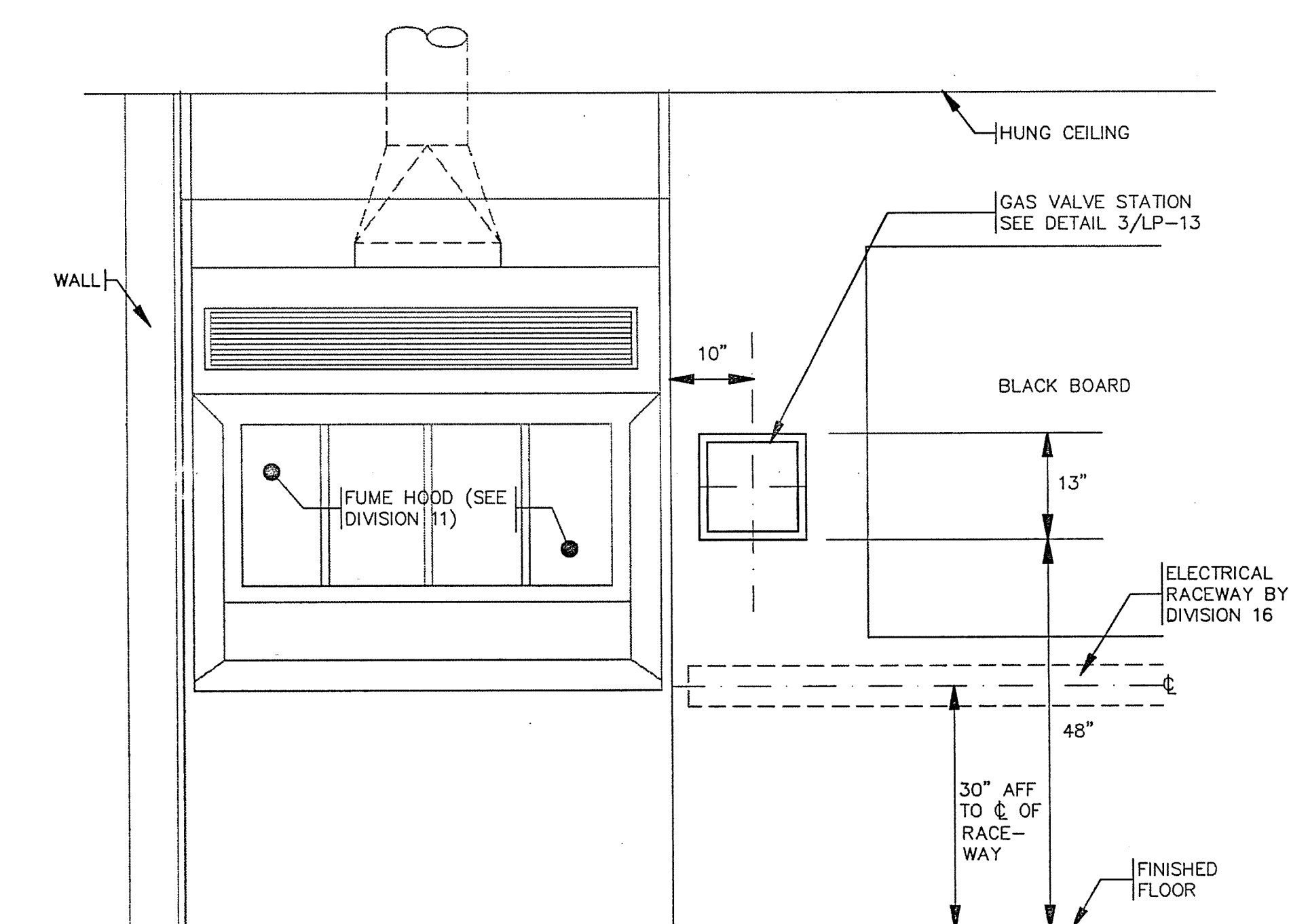
3 GAS VALVE STATION DETAIL
NOT TO SCALE
EARL WALLS ASSOCIATES © 1994



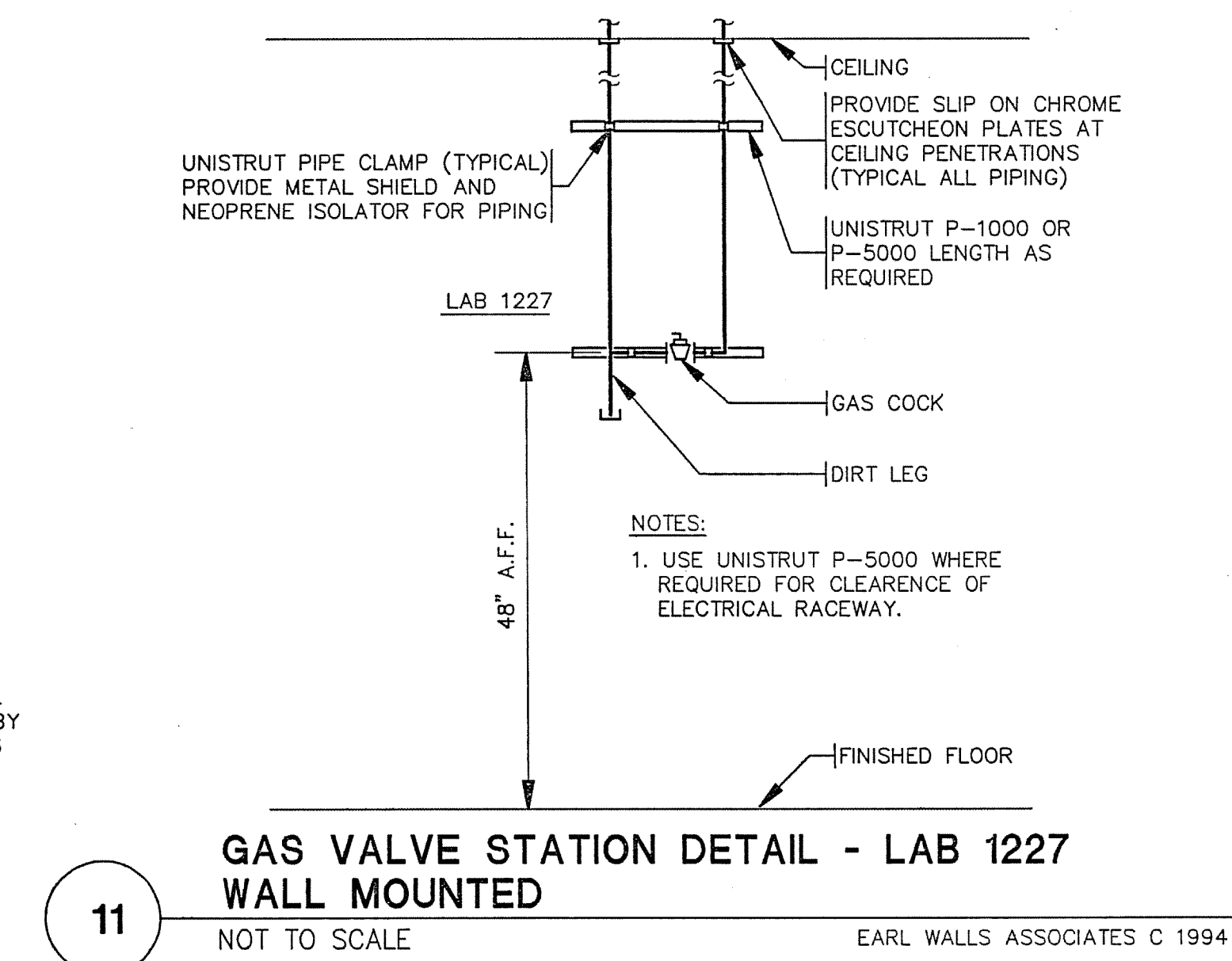
6 TYPICAL FLOOR - GAS PANEL PIPING
NOT TO SCALE
EARL WALLS ASSOCIATES © 1994



7 GLASSWARE WASHER PIPING SCHEMATIC
NOT TO SCALE
EARL WALLS ASSOCIATES © 1994



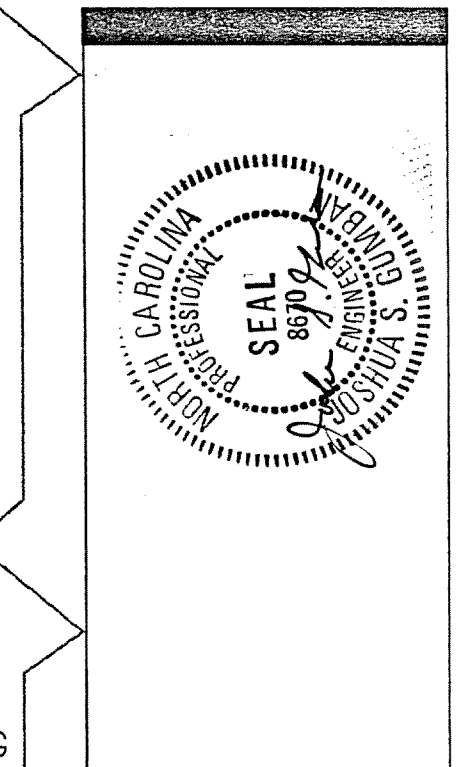
11 GAS VALVE STATION DETAIL - LAB 1227 WALL MOUNTED
NOT TO SCALE
EARL WALLS ASSOCIATES © 1994



11 GAS VALVE STATION DETAIL - LAB 1227 WALL MOUNTED
NOT TO SCALE
EARL WALLS ASSOCIATES © 1994

DRAWING REVISIONS:		
NO.	DATE:	REMARKS:
1	5/16/84	PROJECT# 8962
2		DESIGNED BY: AMA
3		DRAWN BY: AMA
4		CHECKED BY: ARW
5		
6		
7		
8		
9		
10		
11		

JEFFERIES AND FARIS
ASSOCIATES
ARCHITECTS • PLANNERS
SEA TOWERS, SUITE 201
2002 EASTWOOD ROAD
WILMINGTON, N.C. 28403
TEL: 910.256.6633
FAX: 910.256.9088

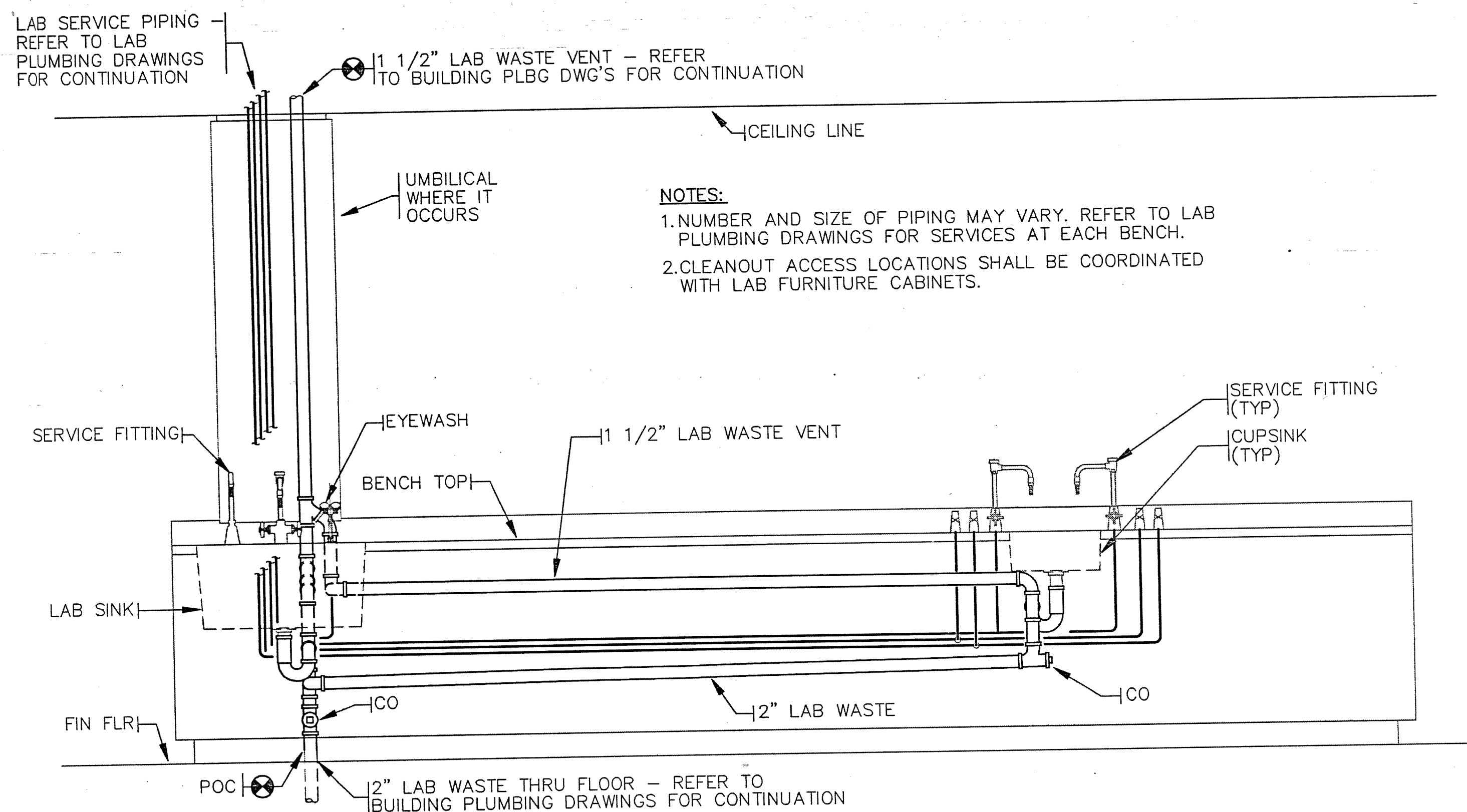


SCIENCE BUILDING
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON
CODE 49388 ITEM 301 ID#6084280301A

SHEET TITLE:

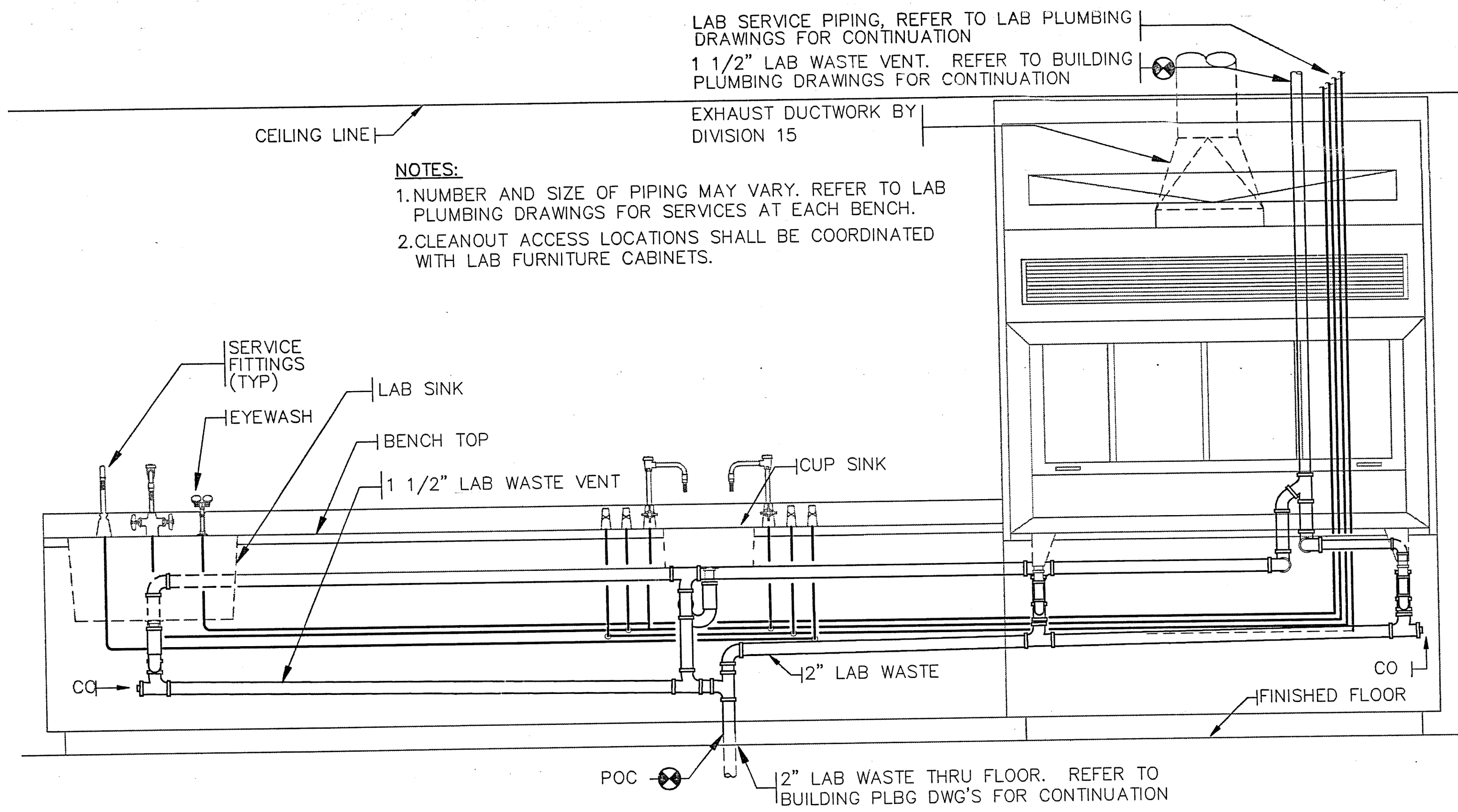
LAB PLUMBING
DETAILS

SHEET NO.:
LP13



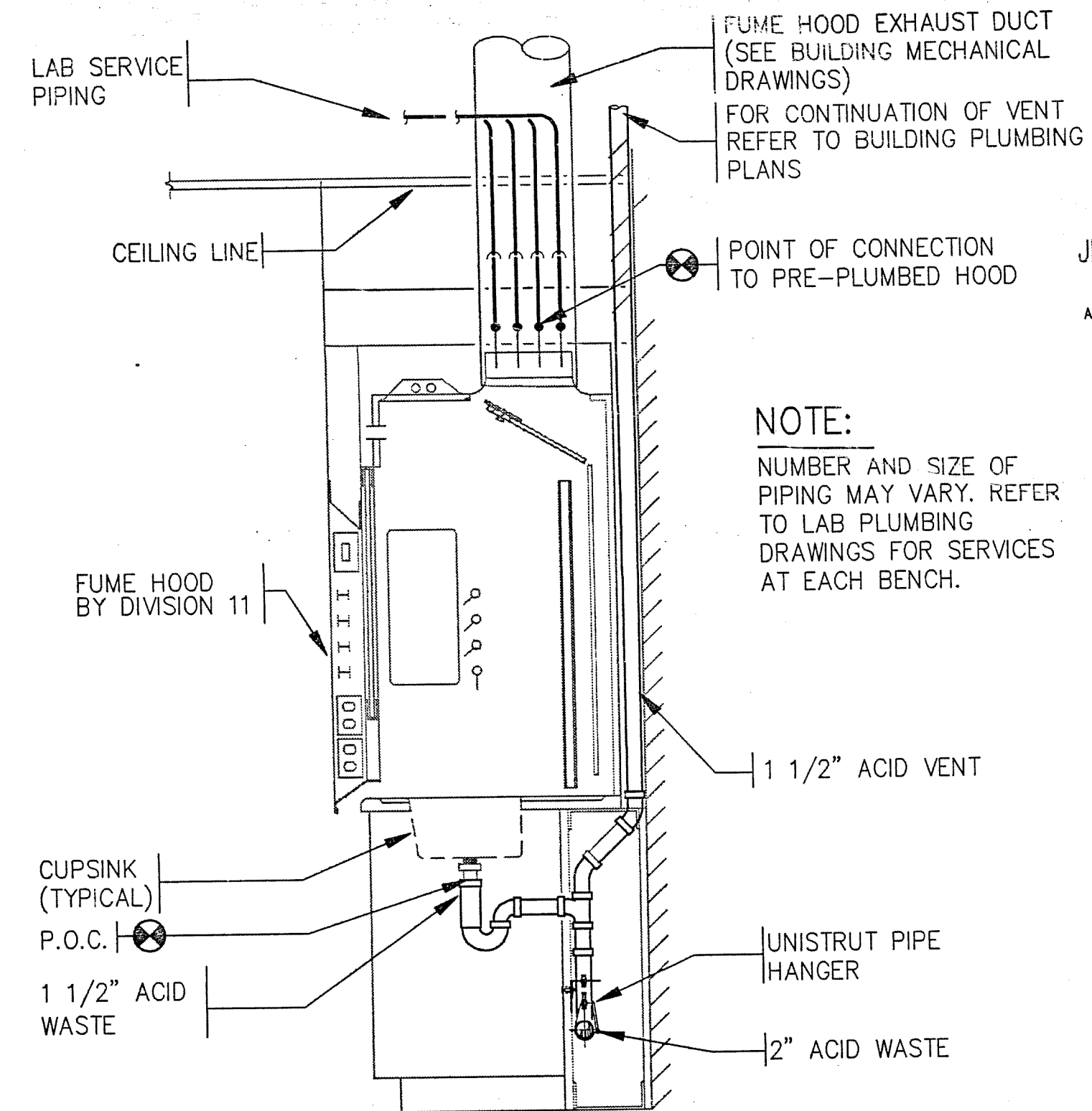
1 LAB PIPING AT WALL BENCH - ELEVATION
NOT TO SCALE

EARL WALLS ASSOCIATES © 1994



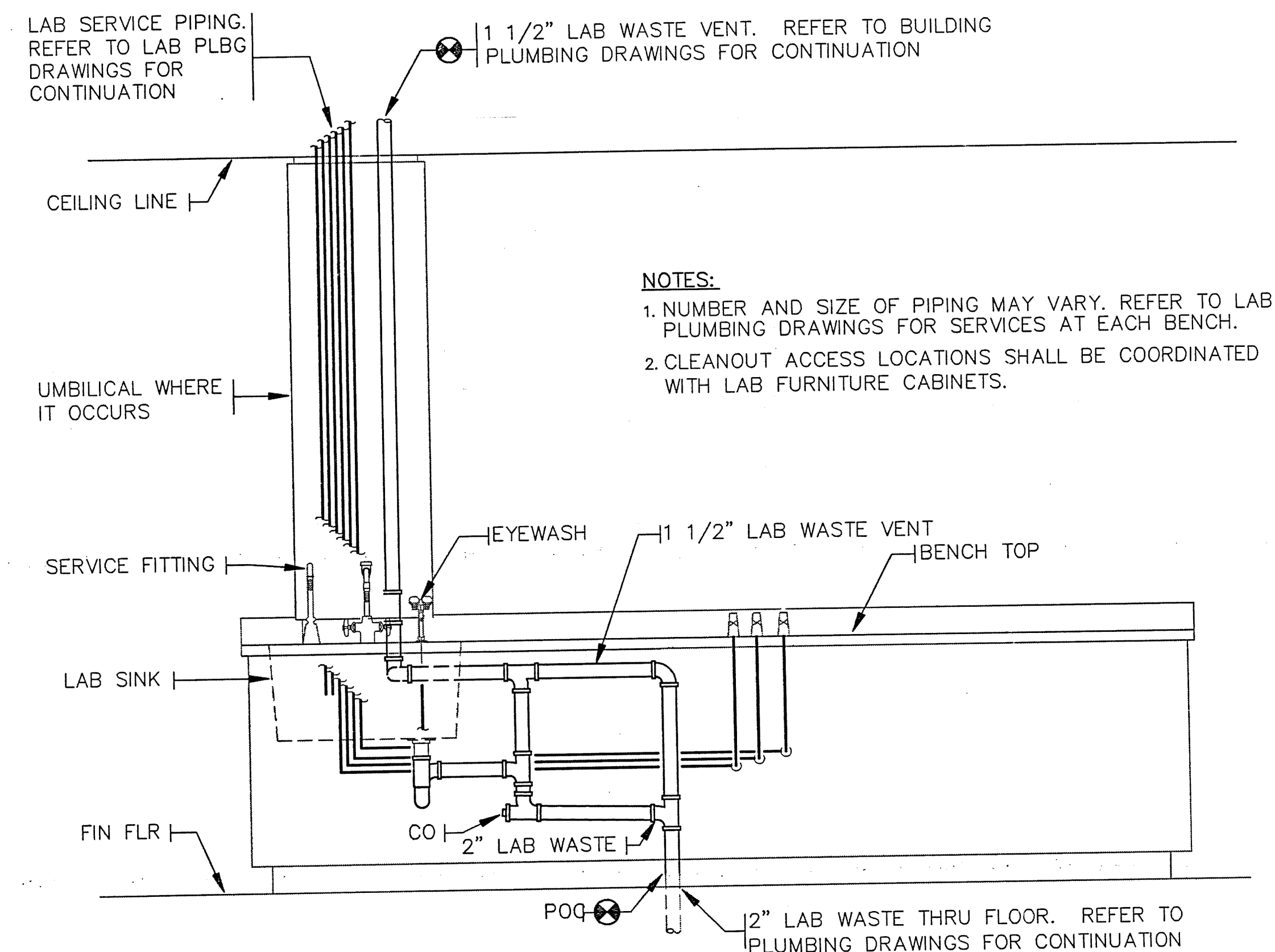
2 LAB PIPING AT WALL BENCH - ELEVATION
NOT TO SCALE

EARL WALLS ASSOCIATES © 1994



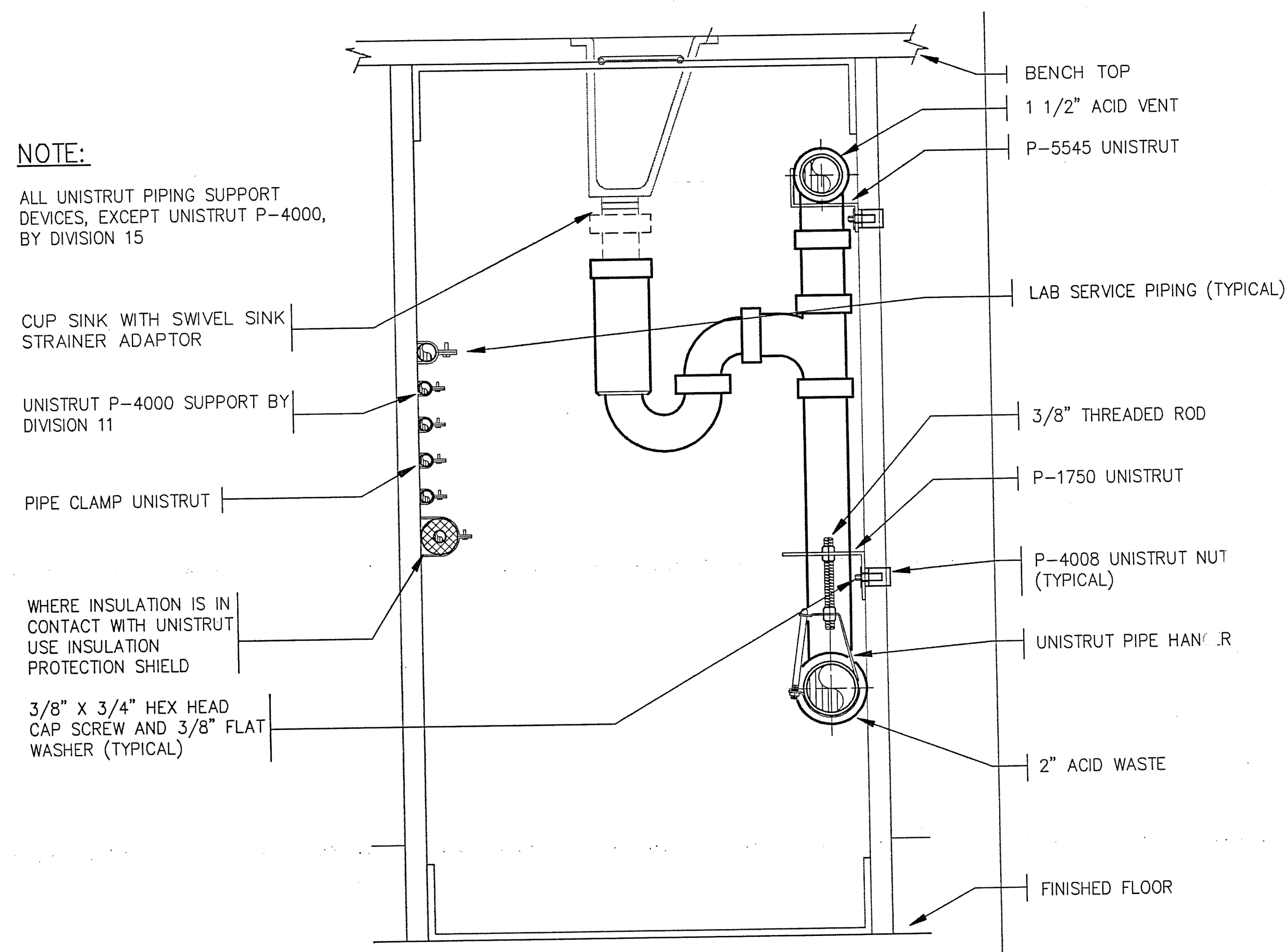
3 FUME HOOD AT WALL BENCH - SECTION
NOT TO SCALE

EARL WALLS ASSOCIATES © 1994



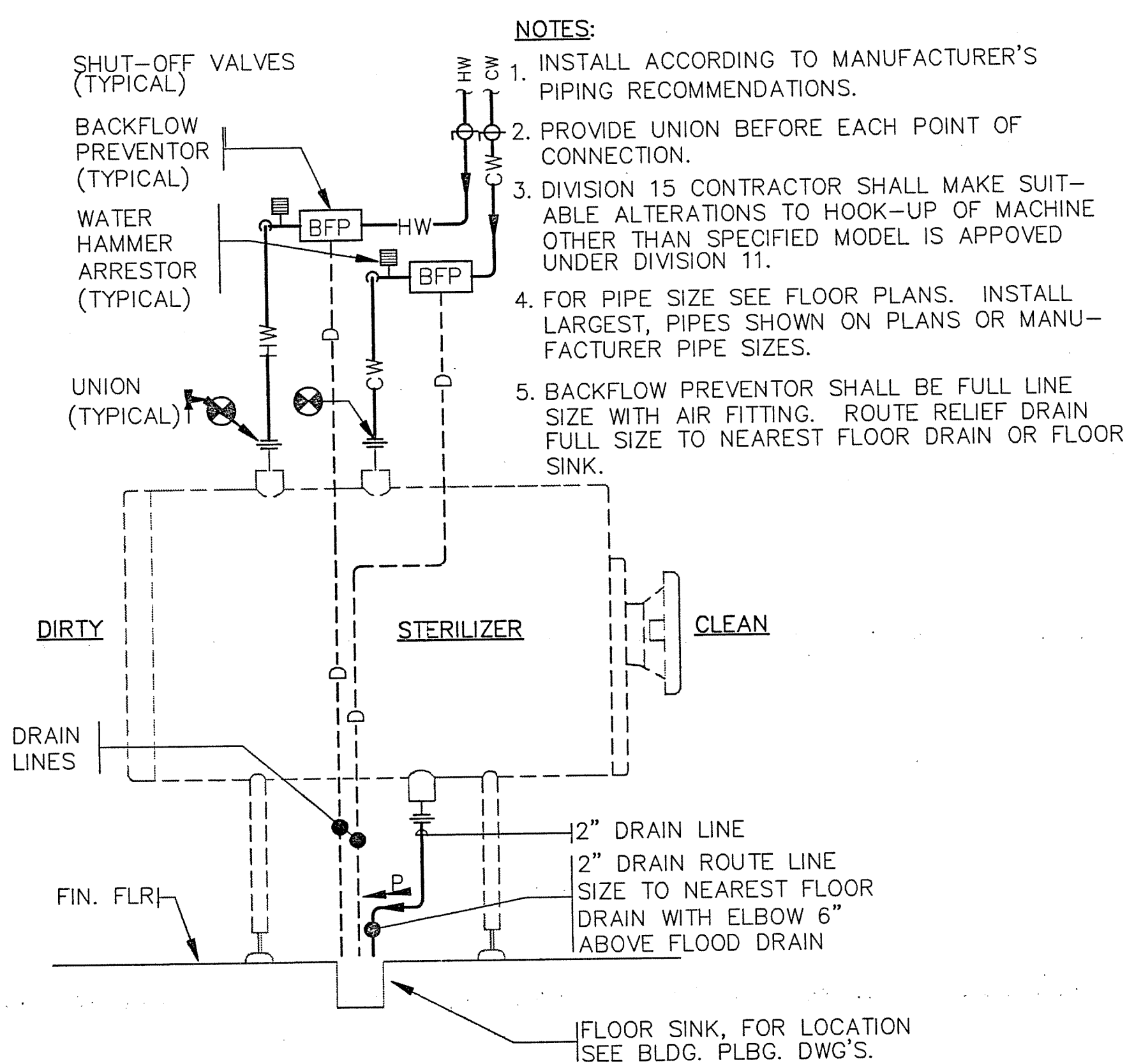
4 LAB PIPING AT WALL BENCH - ELEVATION
NOT TO SCALE

EARL WALLS ASSOCIATES © 1991



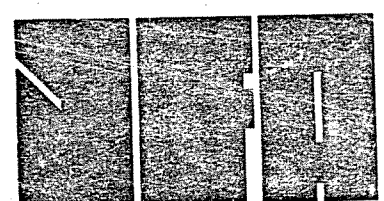
5 LAB PIPING AT ISLAND BENCH - PIPE CHASE SECTION
NOT TO SCALE

EARL WALLS ASSOCIATES © 1994

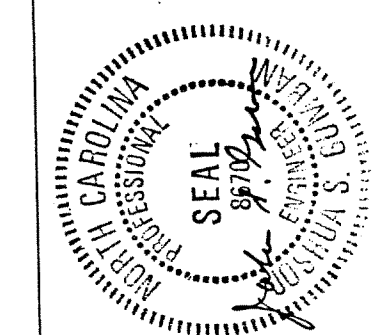


6 STERILIZER PIPING SCHEMATIC
NOT TO SCALE

EARL WALLS ASSOCIATES © 1994



JEFFRIES AND FARIS ASSOCIATES
ARCHITECTS & PLANNERS
SEA TOWERS, SUITE 201
2002 EASTWOOD ROAD
WILMINGTON, N.C. 28403
TEL: 910.256.6633
FAX: 910.256.9088



SCIENCE BUILDING
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON
CODE 49888 ITEM 301 ID#6089280301A

SHEET TITLE:

LAB PLUMBING
DETAILS

AS BUILT

Earl Walls Associates
Laboratory Design Consultants
5340 Carroll Canyon Road
San Diego, California 92121
(619)457-2400

DRAWING REVISIONS:		
NO.	DATE	REMARKS

DATE: 5/16/94
PROJECT#: 8962
DESIGNED BY: AMA
DRAWN BY: AMA
CHECKED BY: ARW

SHEET NO.:

LP14