

# TACOMA TERMINALS INC.

## PORT COMMISSIONERS 1984

ROBERT G. EARLEY  
JACK A. FABULICH  
JOE E. FAKER  
JOHN A. MCCARTHY  
PATRICK O'MALLEY

LAWRENCE M. KILLEEN EXECUTIVE DIRECTOR

JOHN J. TERPSTRA PROJECT MANAGER

## ARCHITECT

McGRANAHAN, MESSENGER ASSOCIATES  
950 S. FAWCETT, SUITE 300  
TACOMA, WA 98402 383-3064



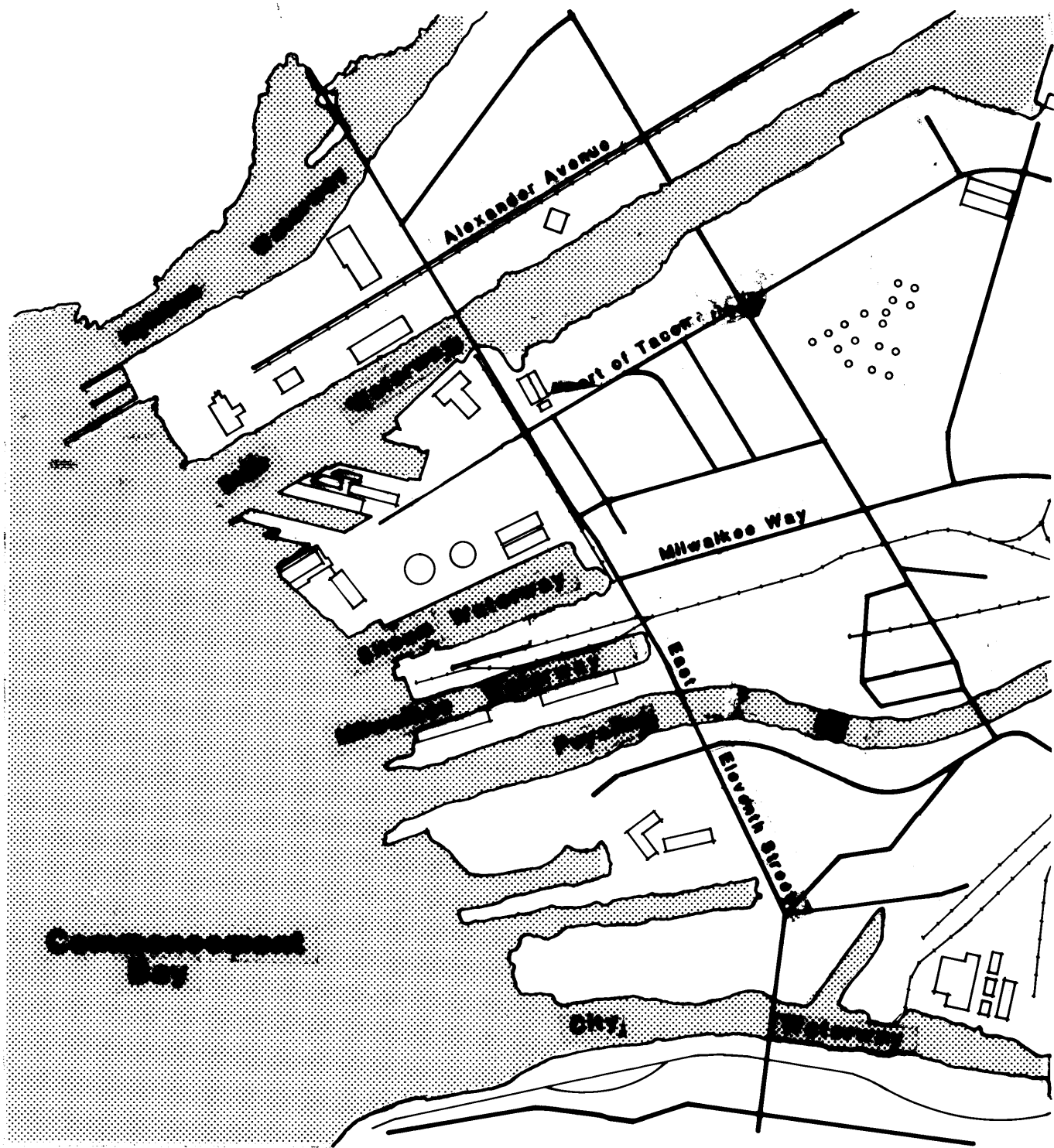
# PORT OF TACOMA PHASE IV

## STRUCTURAL ENGINEER

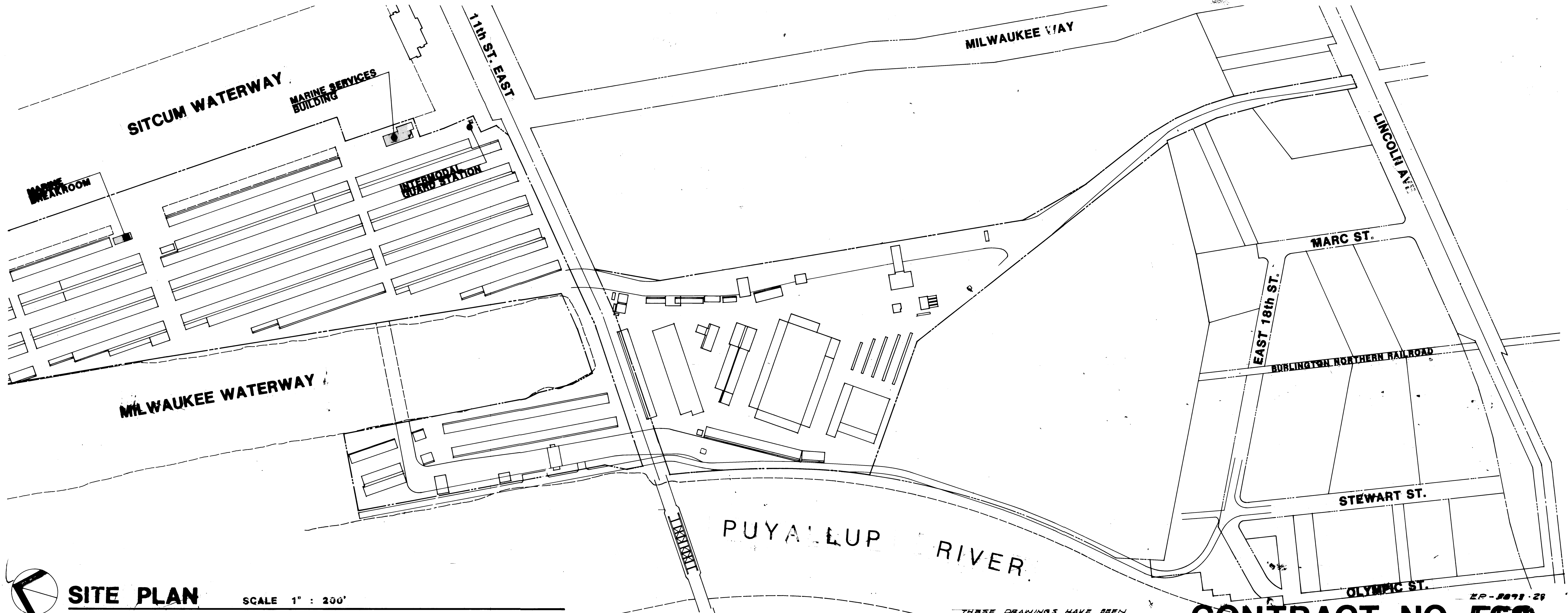
ADAMS-HODSDON ENGINEERS, INC.  
5308 12th STREET EAST  
TACOMA, WA 98424 922-1600

## MECHANICAL/ELECTRICAL ENGINEER

TRES WEST ENGINEERS, INC.  
2719 ROCHESTER STREET WEST, SUITE 2  
TACOMA, WA 98406 565-6252



VICINITY MAP



SITE PLAN

SCALE 1" = 200'

THESE DRAWINGS HAVE BEEN REVISED TO AS-BUILT BY P.J. STAWART

CONTRACT NO. 562

EP-8093-29

# INDEX OF DRAWINGS

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## MARINE BREAKROOM BUILDING

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## INTERMODAL GUARD STATION

- 6-A13-1 Floor Plan, Reflected Ceiling Plan, Roof Plan, Exterior Elevations, Building Sections, Wall Section, Interior Elevations, Door, Frame and Window Types

- 6-S13-1 Structural Plans

- 6-E13-1

# BUILDING CODE DATA

- GOVERNING BUILDING CODE: Uniform Building Code 1982
- FIRE ZONE: None
- TYPE OF ZONING: M-3
- TYPE OF CONSTRUCTION:
 

Const.	Occupancy	Sq. Ft. Areas
Marine Services Building	SN	B-2, H-4 16,460 Sq. Ft.
Marine Breakroom	SN	B-2 2,400 Sq. Ft.
Interroom Guard Station	SN	B-2 140 Sq. Ft.
- TYPE OF FOUNDATIONS: Continuous and Spread Footings
- FIRE RESISTENCES REQUIRED:
 

1-Hour Between Occupancy	MSB
2-Hour Document Lift Shaft	MSB
1-Hour Elevator Shaft	MSB
- TYPES OF HEATING AND AIR CONDITIONING:
 

Marine Services Building	- Electric Infrared, Heat Pump, Variable
Marine Breakroom	- Heat Pump
Interroom Guard Station	- Resistance Electric
- DESIGN LOADS: See detail sheet 17/1, Paragraph 1.3 Design Criteria, Subparagraph A. for callouts.
- EARTHQUAKE LOADS: See detail sheet 17/2, Paragraph 1.3 Design Criteria, Subparagraph c(2) "Seismic...." for callouts.
- EARTH WEIGHTS AND PRESSURES: See Detail 17/2, Paragraph 1.4 "Soils Data" for callouts.
- FOUNDATIONS: Per Attached Report

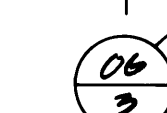
# KEY TO SYMBOLS



BUILDING SECTION



WALL SECTION

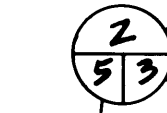


DIVISION NUMBER



DETAIL

SHEET NUMBER SOUND IN MANUAL

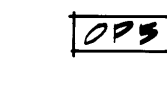


DOOR NUMBER



DOOR

HARDWARE GROUP FRAME TYPE



ROOM NUMBER



ROOM FINISH NUMBER  
APPEARS WHERE A CHANGE OF MATERIAL OCCURS

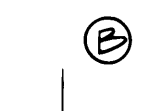
## FINISH SCHEDULE BOX

OPB OFFICE	FLOOR	BASE	WALL	CLG.
FINISH SCHEDULE	11	20	31	41

SCHEDULE NUMBER DOT INDICATES ADDITIONAL FINISHES



CABINET SCHEDULE



WINDOW BLIND LOCATION



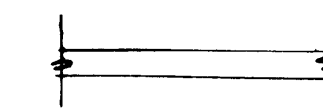
2x4 STUD WALL W/ SOUND BATTS



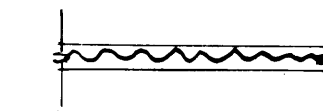
STUD WALL



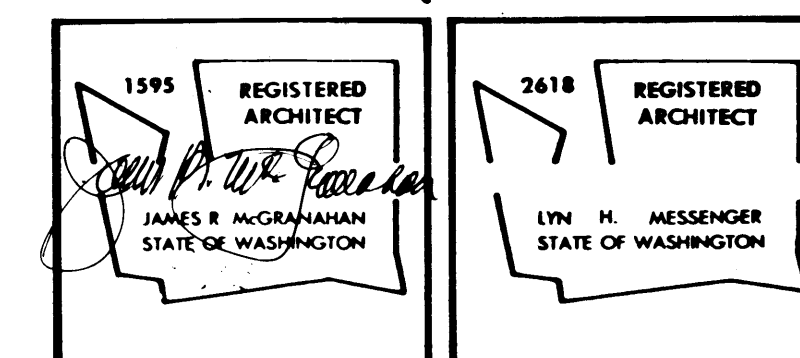
2x4 STUD WALLS @ MARINE SERVICES BUILDING (SEE FLOOR PLANS)



2x6 ON 2x8 STUD WALLS @ MARINE SERVICES BUILDING (SEE FLOOR PLANS)



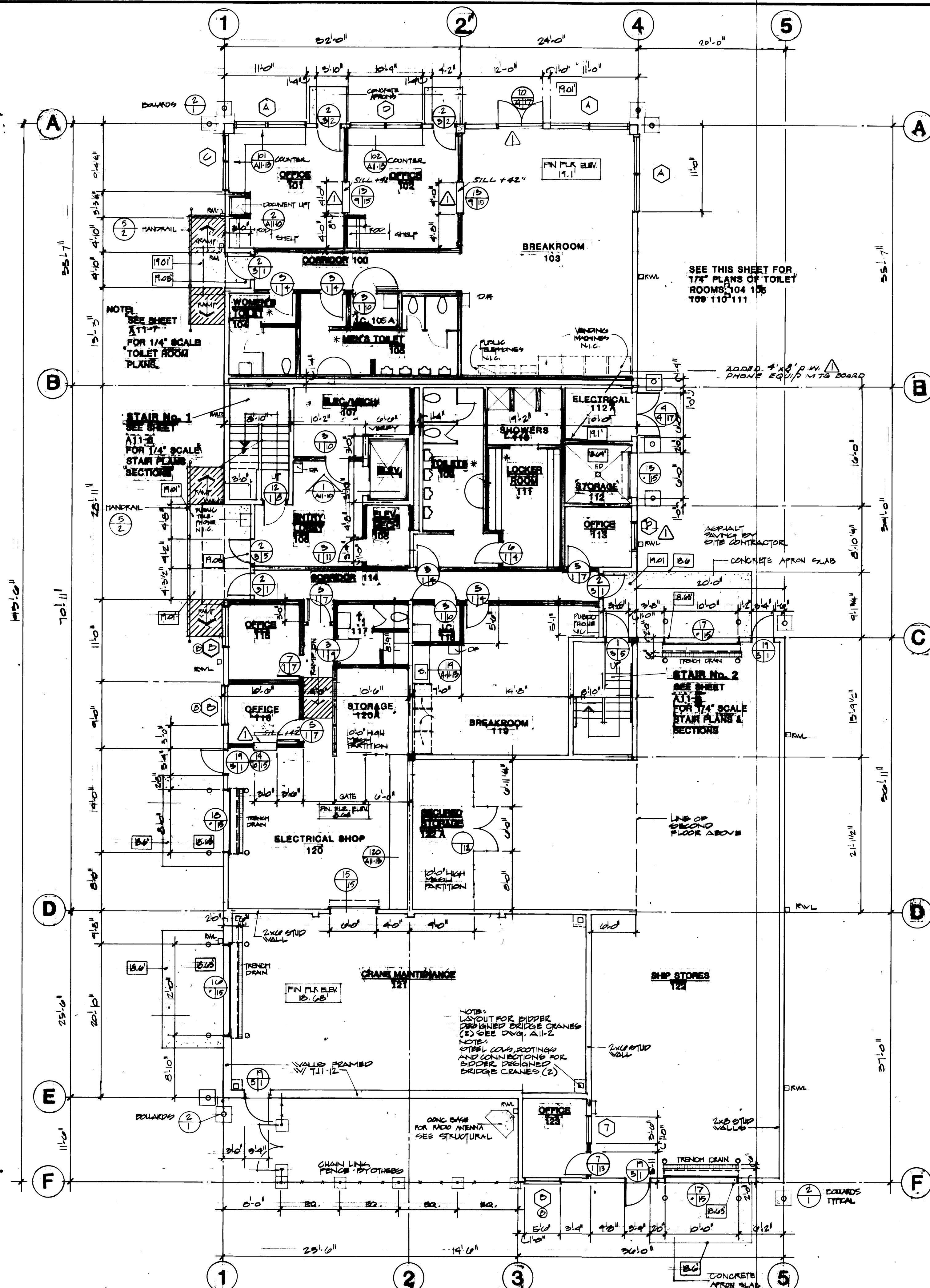
SOUND WALLS @ MARINE SERVICES BUILDING (SEE FLOOR PLAN)



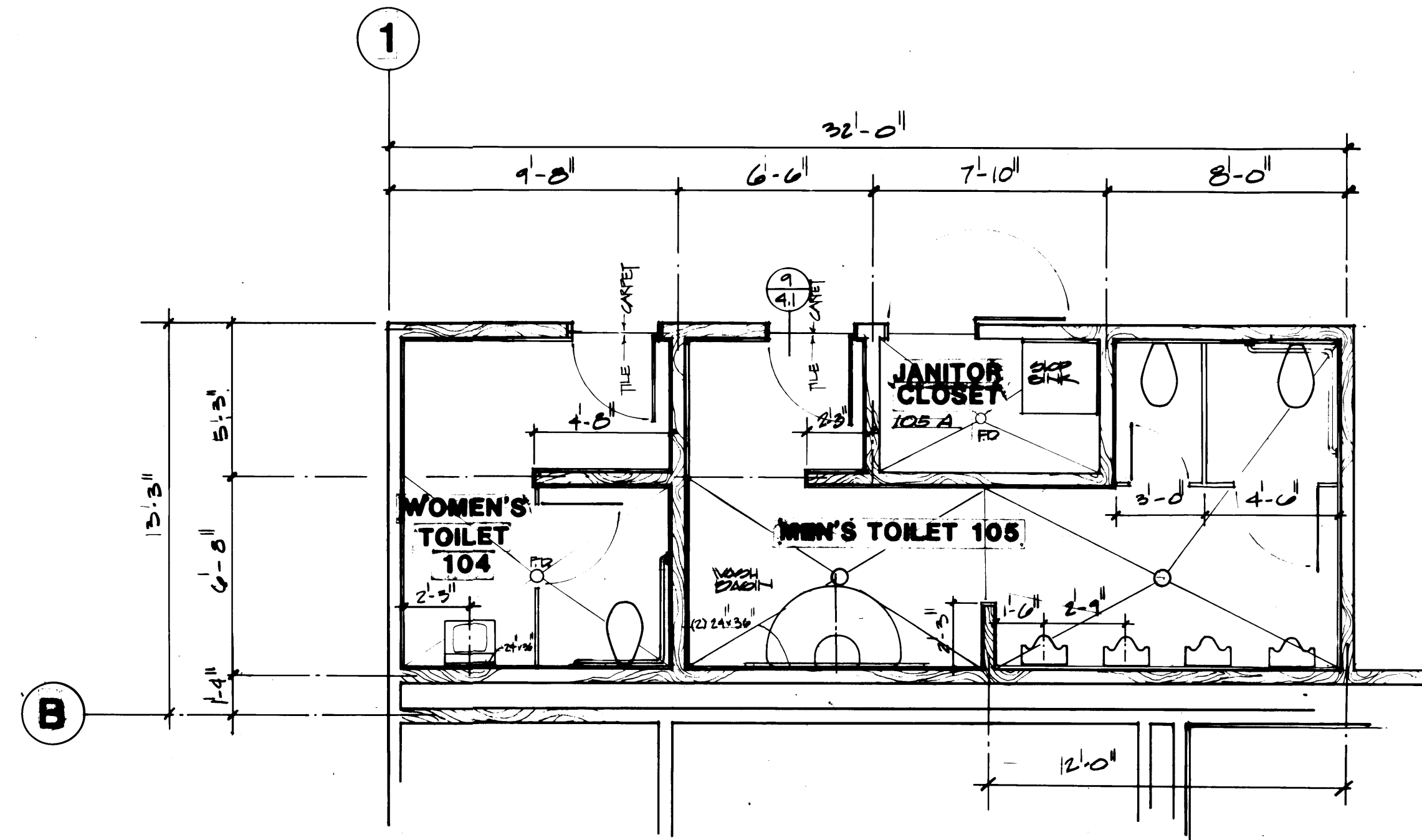
DRAWN _____	DATE 9-21-84	<b>PORT OF TACOMA</b> TACOMA TERMINALS, INC. <b>INDEX TO DRAWINGS</b> <b>BUILDING CODE DATA</b> <b>KEY TO SYMBOLS</b>
CHECKED _____	DATE _____	
CHECKED _____	DATE _____	
CHECKED _____	DATE _____	
CONT. NO. 882	FIELD BOOK (S) _____	SCALE NONE
APPROVED _____	DATE 9/24/84	DRAWING NO. EP-3893-23
PROJECT MANAGER _____	DATE _____	6-A0-1
CHIEF ENGINEER _____	DATE _____	1
MARK _____	REVISION _____	SHEET AO-1 OF 1

**McGRANAHAN, MESSENGER ASSOCIATES**  
 ARCHITECTURE / PLANNING / INTERIORS  
 MEMBER AMERICAN INSTITUTE OF ARCHITECTS • 950 AVICELL BLVD 300 TACOMA WA 98402 • (206) 383-3084





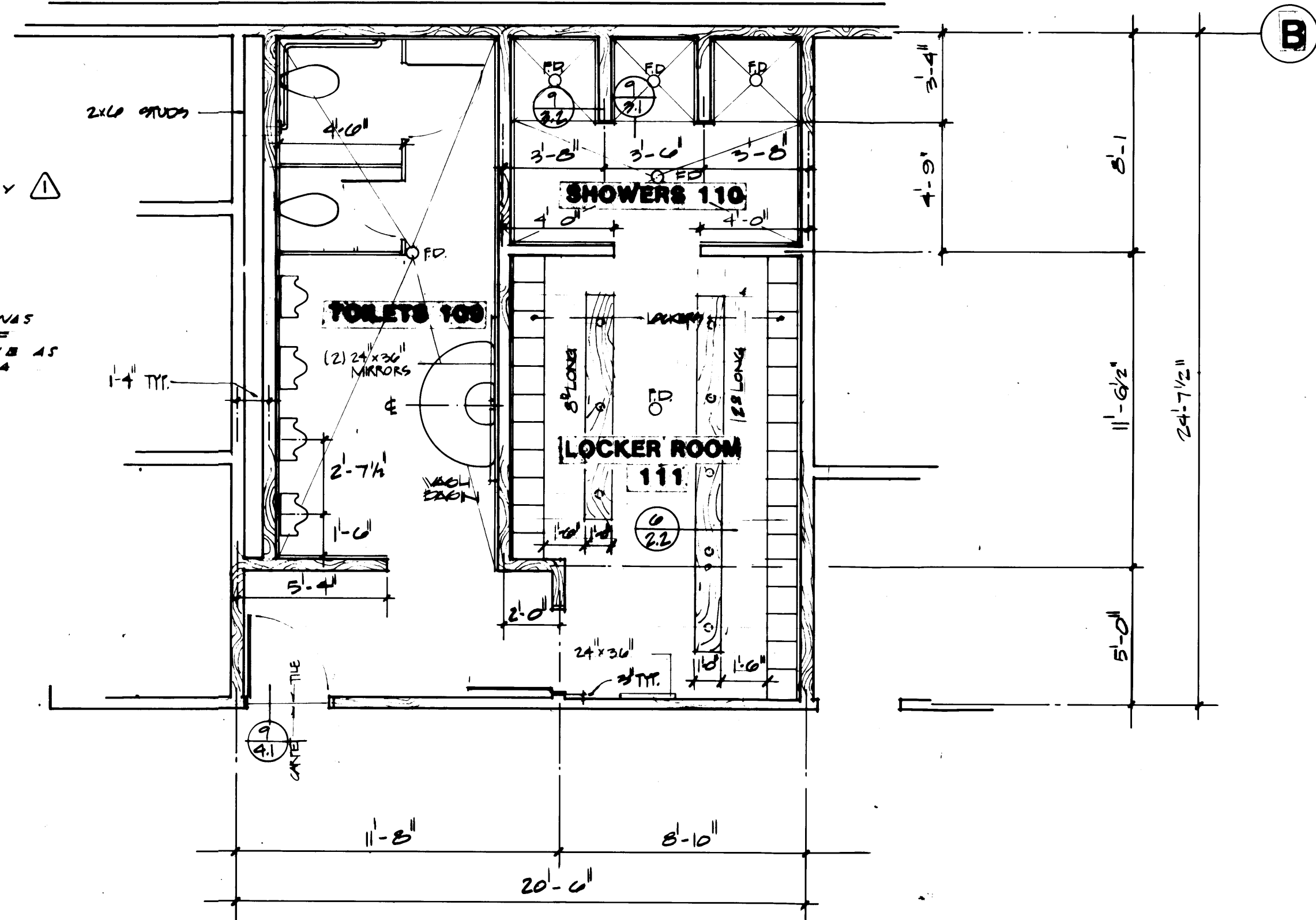
**FIRST FLOOR LEVEL**  
SCALE 1/8" = 1'-0"



**TOILET ROOM FLOOR PLAN**  
SCALE 1/4" = 1'-0"

ALL LAVATORY DRAIN LINES  
HERE INSULATED TO COMPLY  
WITH HANDICAPPED CODE

FIRE TARD  
GYPSUM BOARD & FRAMING WAS  
EXTENDED TO UNDERSIDE OF  
FLOOR AND ROOF DECK ABOVE AS  
"REQUIRED" BY CITY OF TACOMA  
BLDG. DEPT.



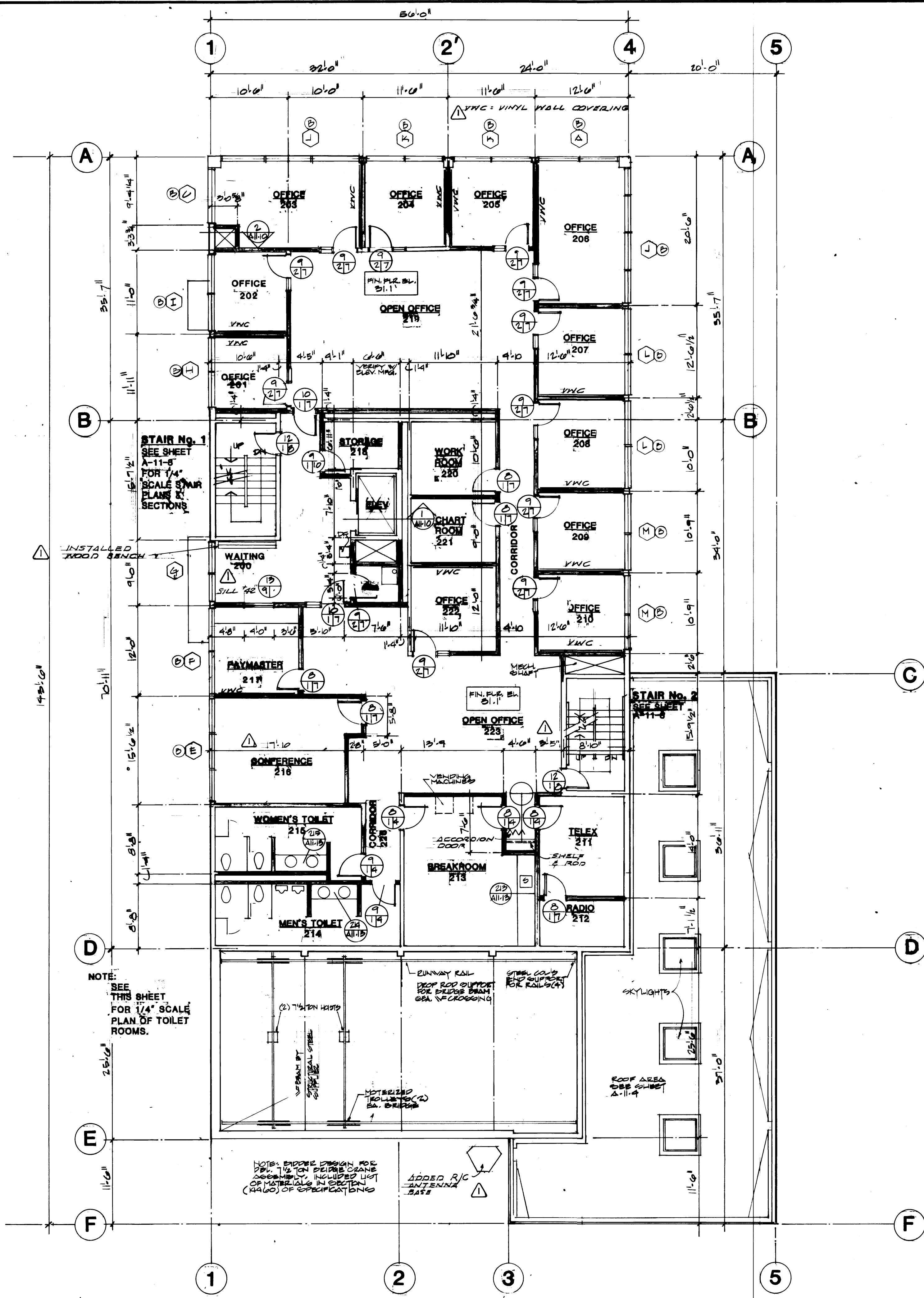
**TOILET/LOCKER/SHOWER ROOM FLOOR PLAN**  
SCALE 1/4" = 1'-0"

1593 REGISTERED ARCHITECT JAMES A. MCGRANAHAN STATE OF WASHINGTON	2618 REGISTERED ARCHITECT LYN H. MESSENGER STATE OF WASHINGTON
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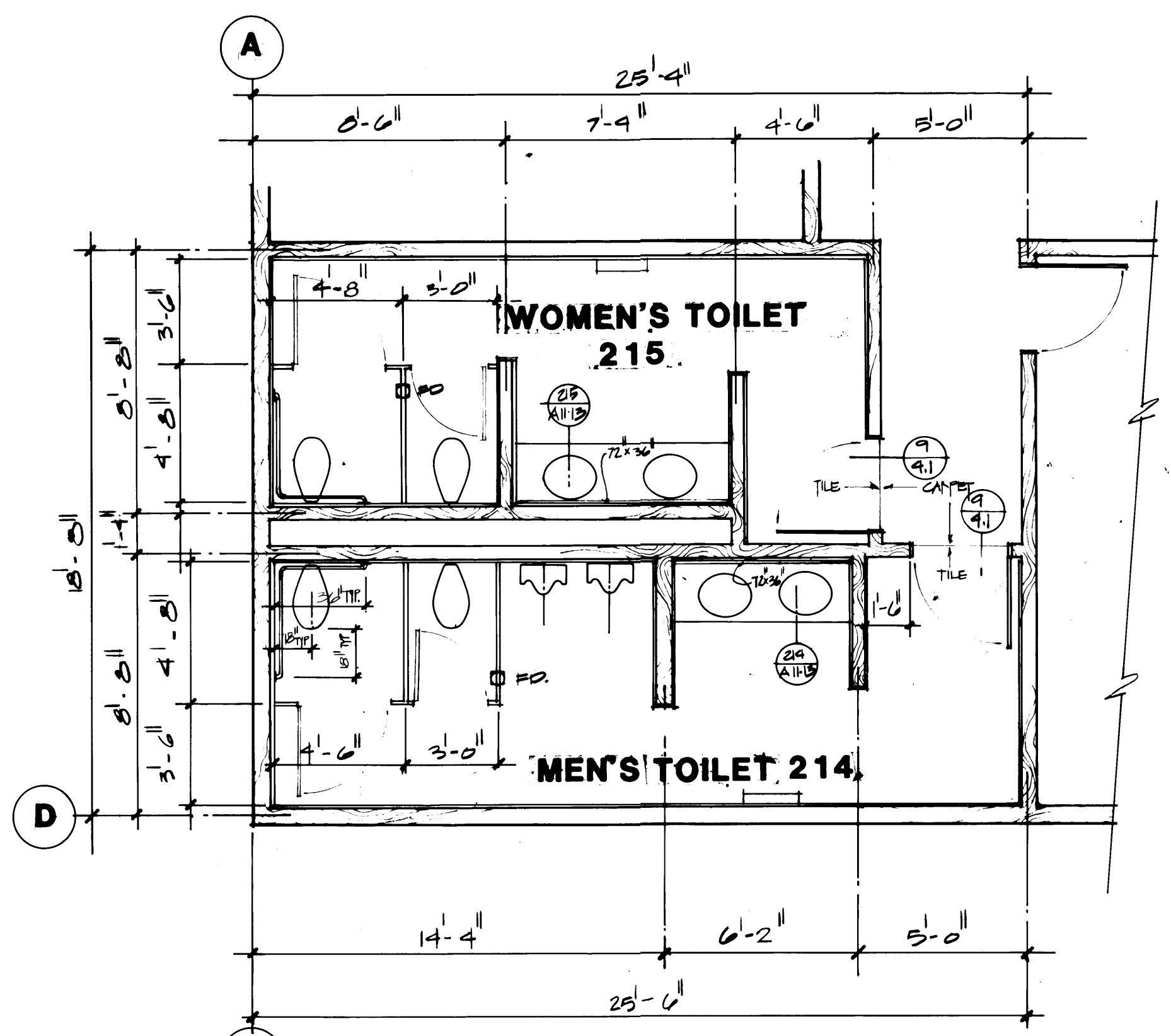
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REVISION	BY	APP.	DATE
REVISED TO AS-BUILT	A.J.S.		8/22/84

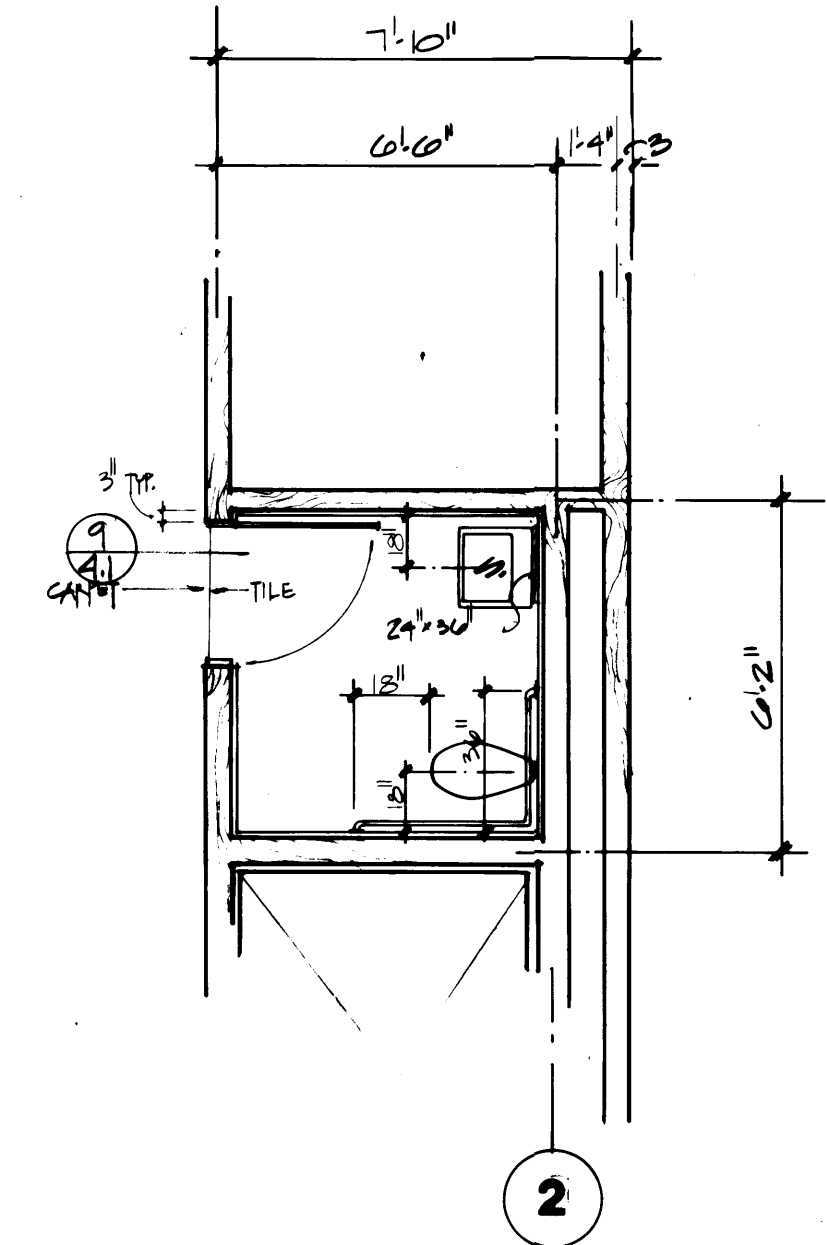
DRAWN M.G./D.P. DATE 9/11/84		<b>PORT OF TACOMA</b>	
CHECKED _____		TACOMA TERMINALS, INC.	
CHECKED _____		<b>MARINE SERVICES BUILDING</b>	
CHECKED _____		<b>FIRST FLOOR LEVEL</b>	
DATE _____		CONT. NO. 882	
FIELD BOOK (S)		SCALE AS NOTED	
APPROVED _____		EP-3883-20	
PROJECT MANAGER _____		6-A11-1	
DATE 9/24/84		A11-1 OF 10	
CHIEF ENGINEER _____		DATE _____	



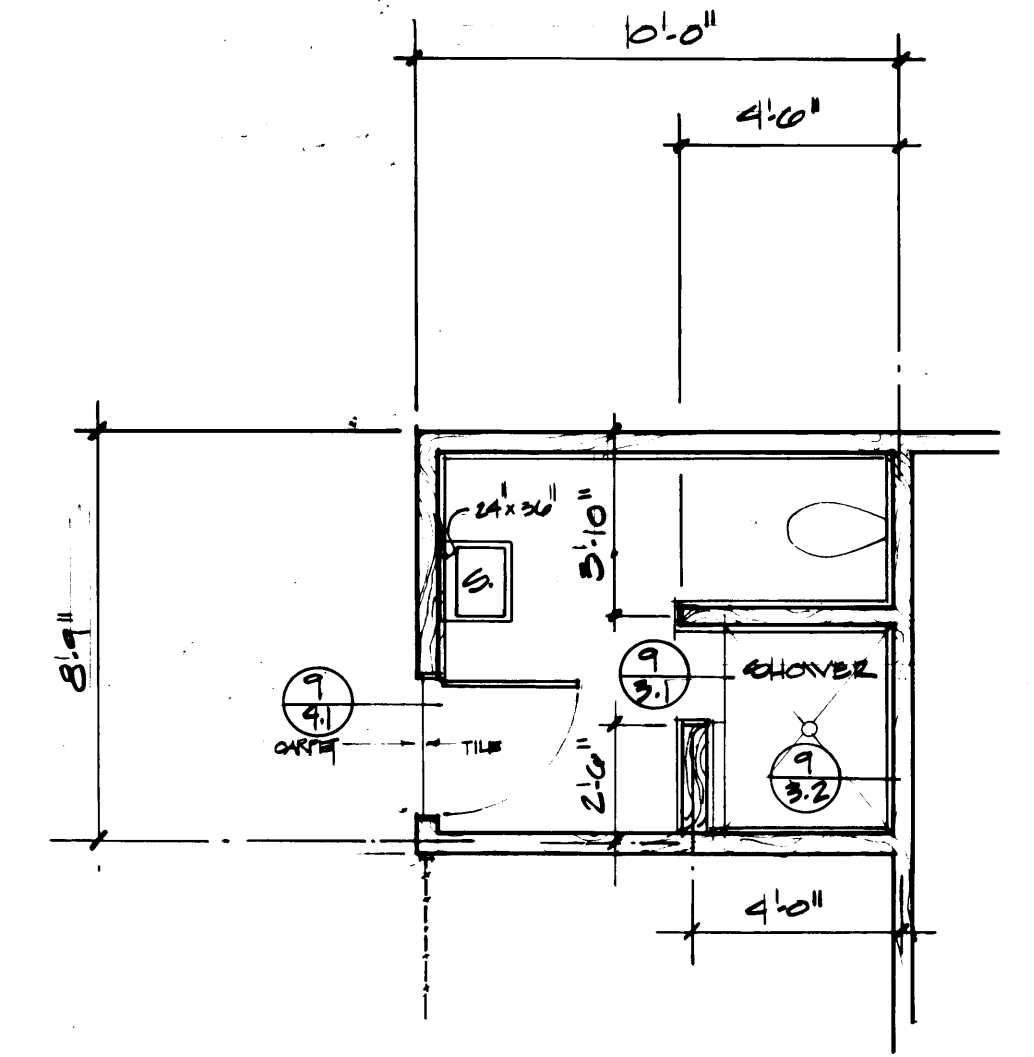
**SECOND FLOOR LEVEL**  
SCALE 1/8" = 1'-0"



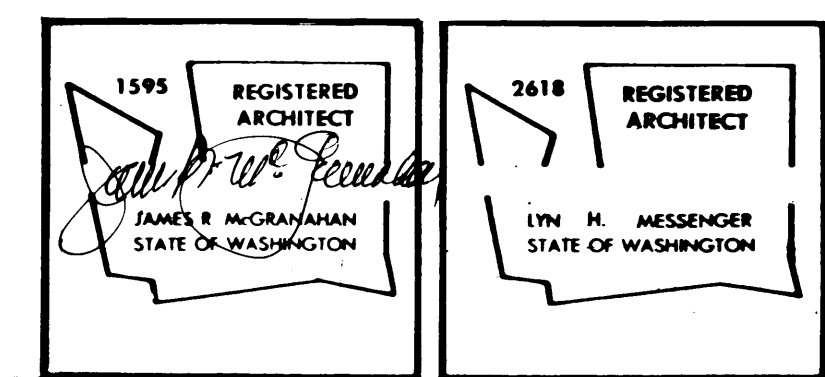
**TOILET ROOM PLANS** ROOMS 214 and 215  
SCALE 1/4" = 1'-0"



**TOILET ROOM PLAN** ROOM 303  
SCALE 1/4" = 1'-0"



**TOILET ROOM PLAN** ROOM 117  
SCALE 1/4" = 1'-0"

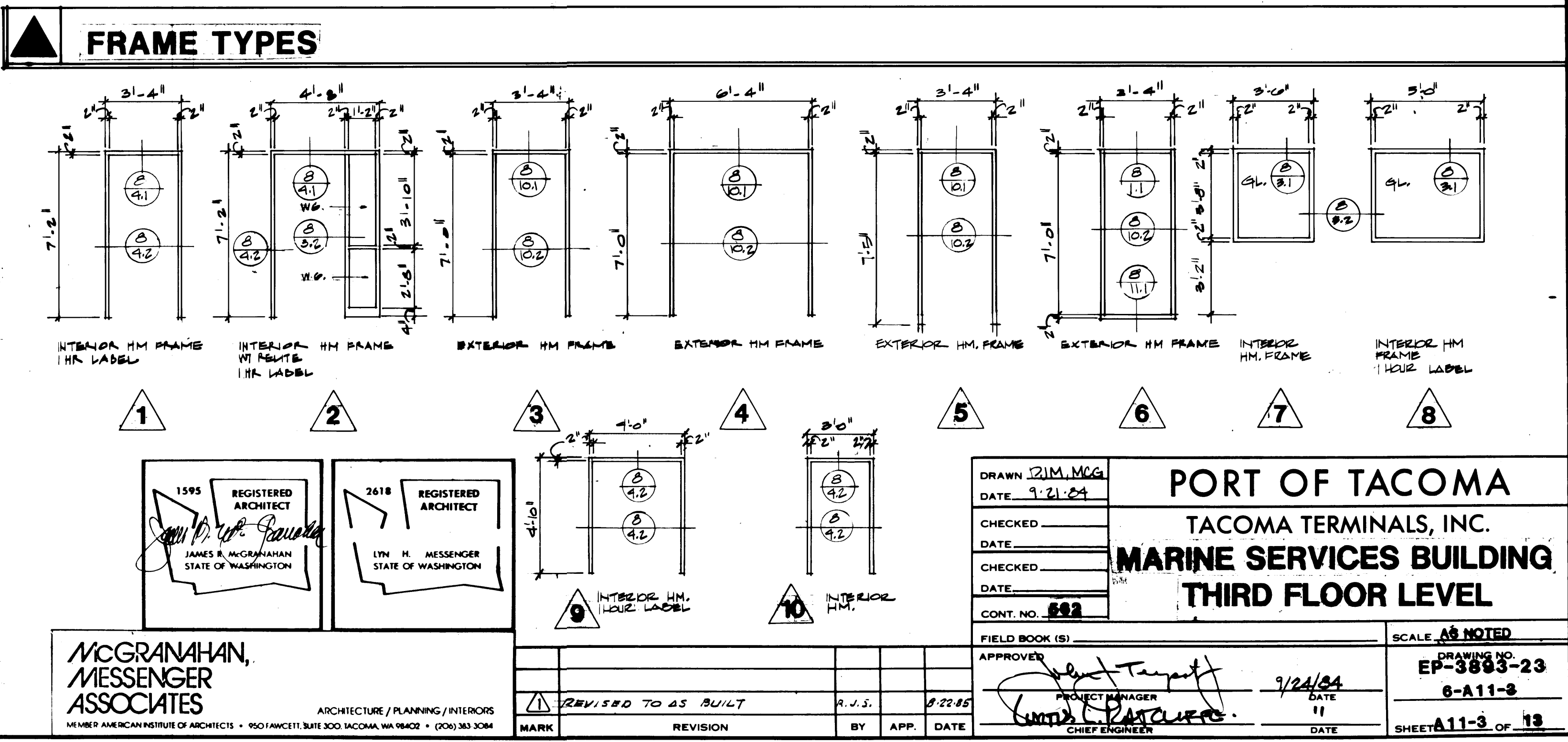
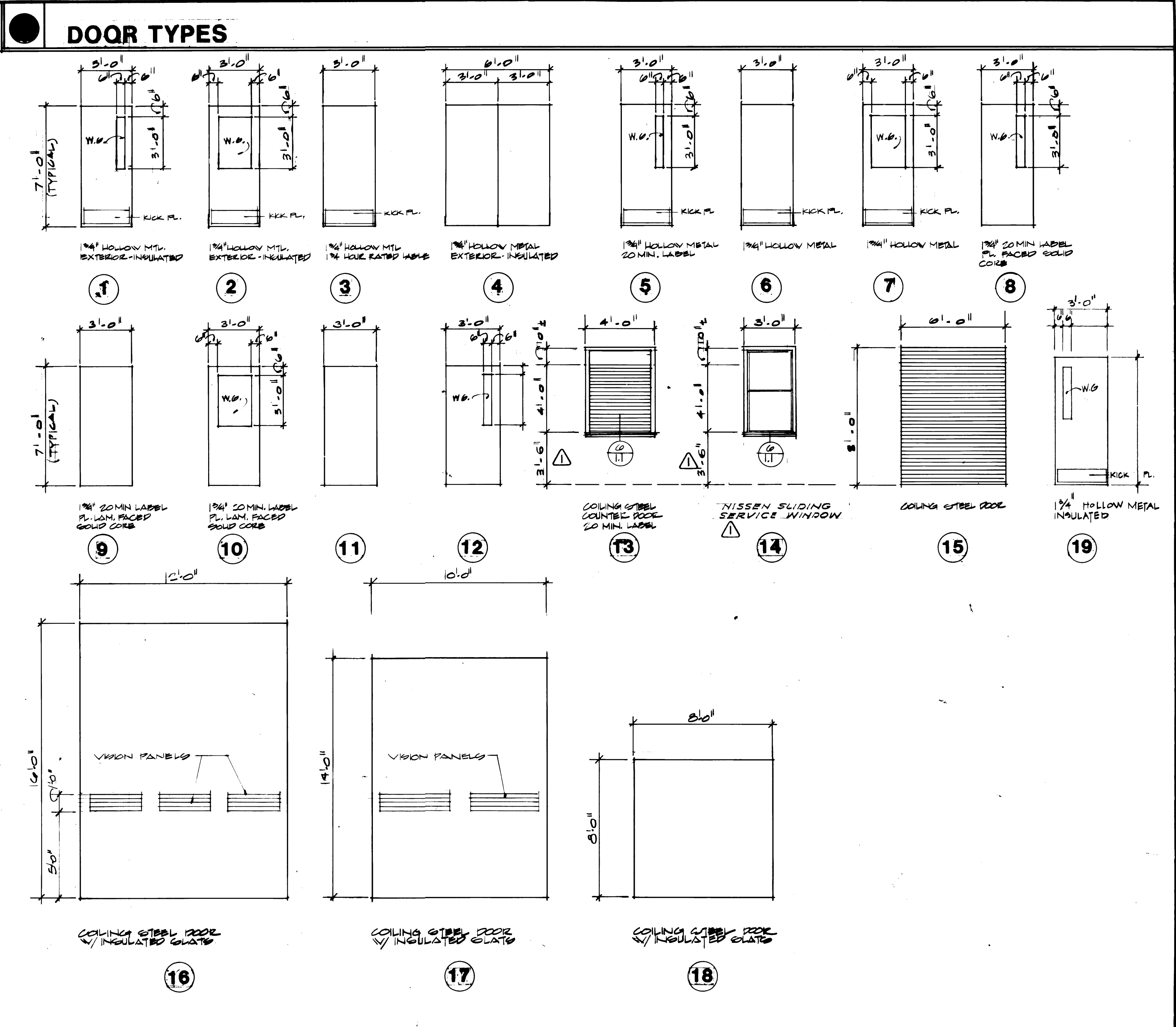
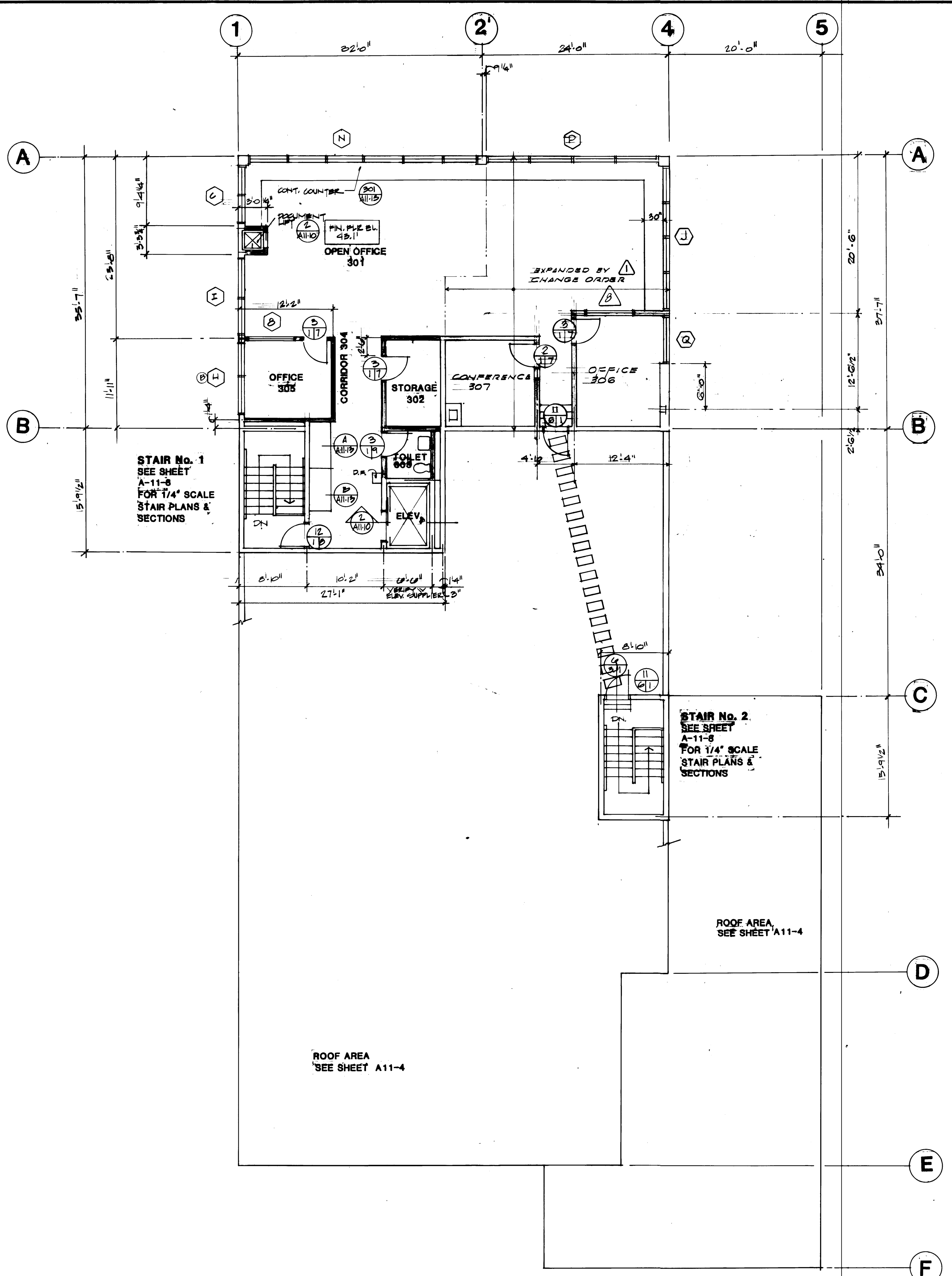


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REVISION	BY	APP.	DATE
REVISED TO AS BUILT	R.J.S.		8-22-89

<b>PORT OF TACOMA</b> TACOMA TERMINALS, INC. <b>MARINE SERVICES BUILDING</b> <b>SECOND FLOOR LEVEL</b>	
DRAWN: MG/DJE DATE: 7/18/89 CHECKED: _____ DATE: _____ CHECKED: _____ DATE: _____ CONT. NO.: 582	FIELD BOOK (S): _____ APPROVED: <i>[Signature]</i> PROJECT NUMBER: _____ DATE: 9/24/84 CHIEF ENGINEER: <i>[Signature]</i>
SCALE: AS NOTED DRAWING NO.: EP-3893-23 SHEET: A11-2 OF 13	SCALE: AS NOTED





**THIRD FLOOR LEVEL**  
SCALE 1/4" = 1'-0"

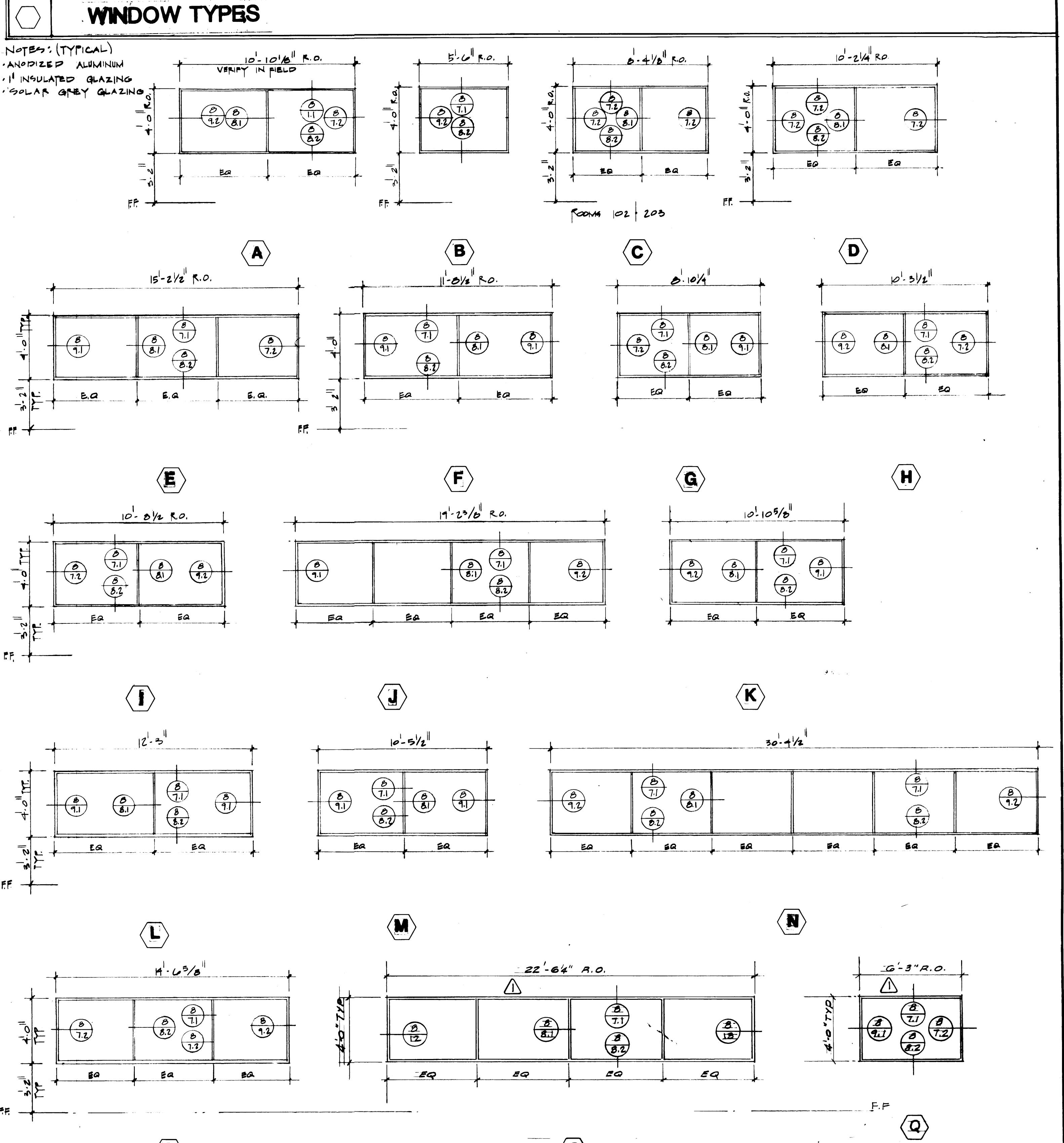
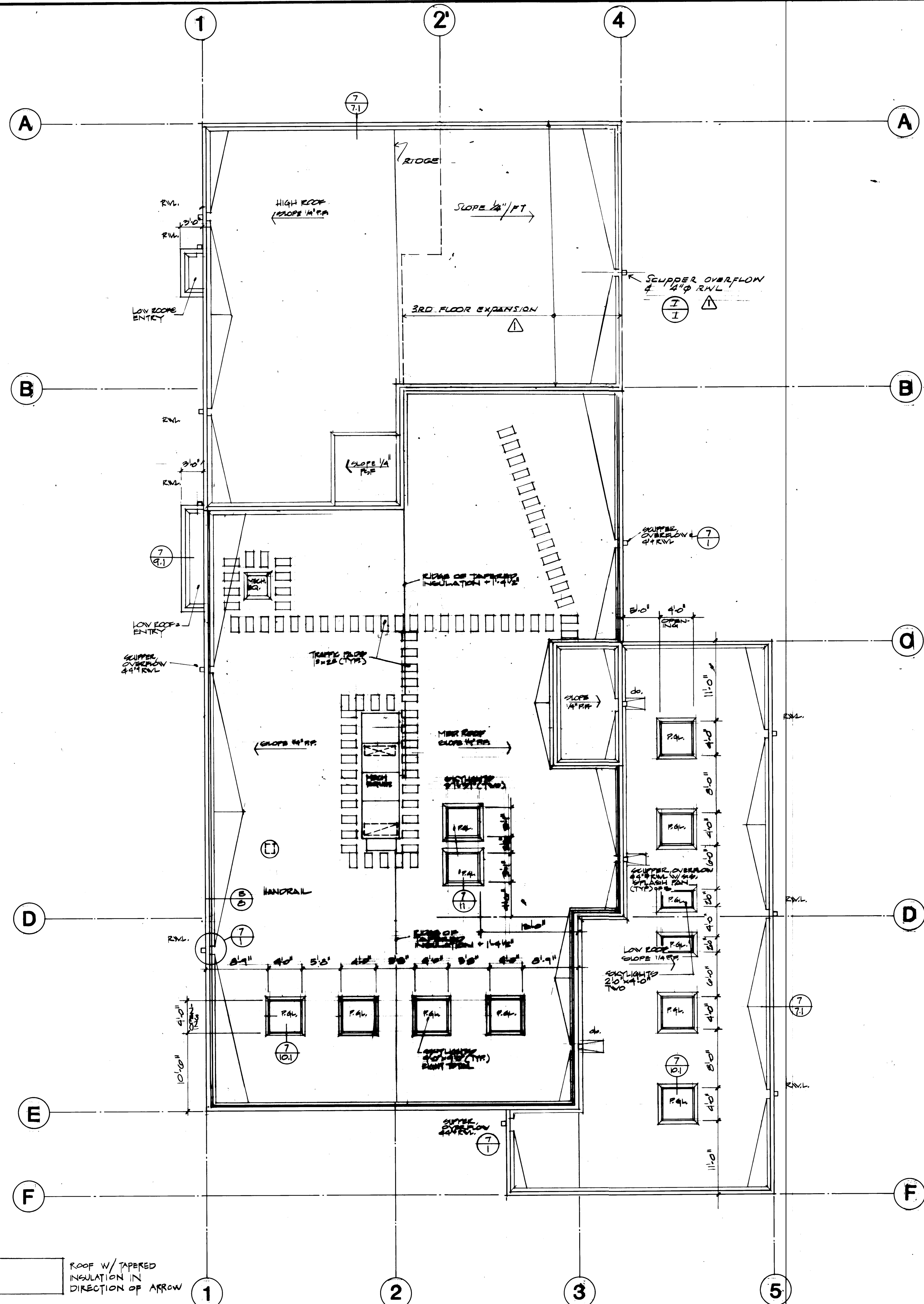
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REVISIONS  
MARK REVISION BY APP. DATE

DRAWN: JLM, MCG  
DATE: 9-21-04  
CHECKED: \_\_\_\_\_  
DATE: \_\_\_\_\_  
CHECKED: \_\_\_\_\_  
DATE: \_\_\_\_\_  
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FIELD BOOK (S): \_\_\_\_\_  
APPROVER: \_\_\_\_\_  
PROJECT MANAGER: \_\_\_\_\_  
DATE: 9/24/04  
DATE: 9-22-05

**PORT OF TACOMA**  
TACOMA TERMINALS, INC.  
**MARINE SERVICES BUILDING**  
THIRD FLOOR LEVEL

SCALE: AS NOTED  
DRAWING NO.: EP-3893-23  
6-A11-3  
SHEET: A11-3 OF 13



**ROOF PLAN**  
SCALE 1/8" = 1'-0"

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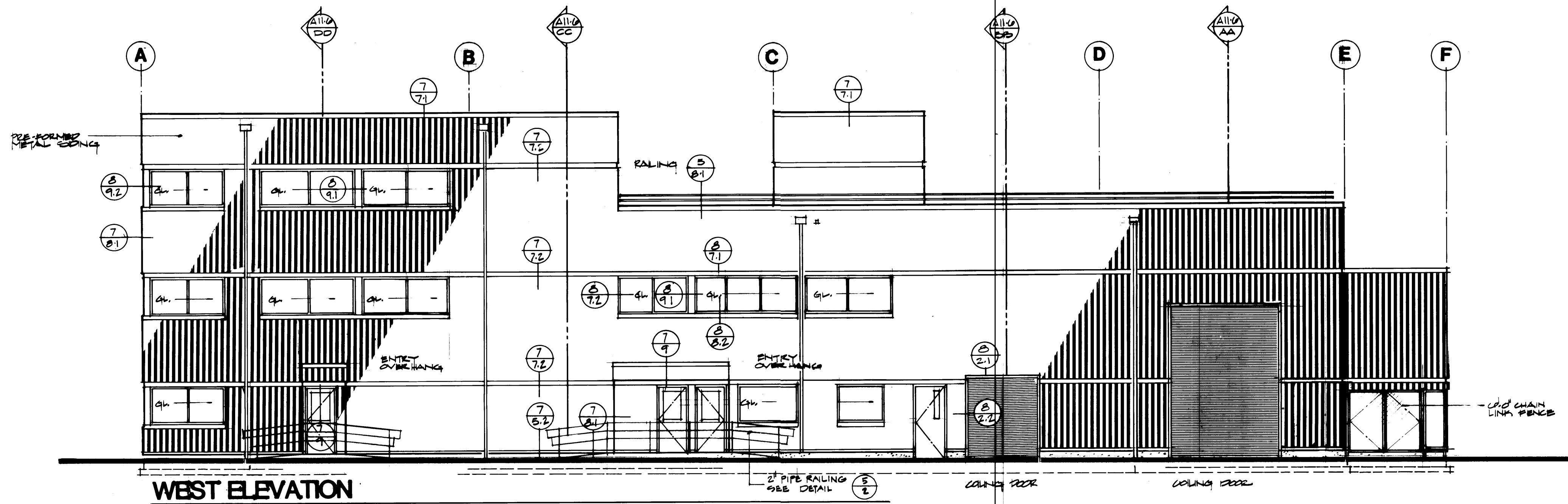
DRAWN	ELF, MCG
DATE	9-21-84
CHECKED	
DATE	
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DATE	

**PORT OF TACOMA**  
**TACOMA TERMINALS, INC.**  
**MARINE SERVICES BUILDING**  
**ROOF PLAN & WINDOW TYPES**

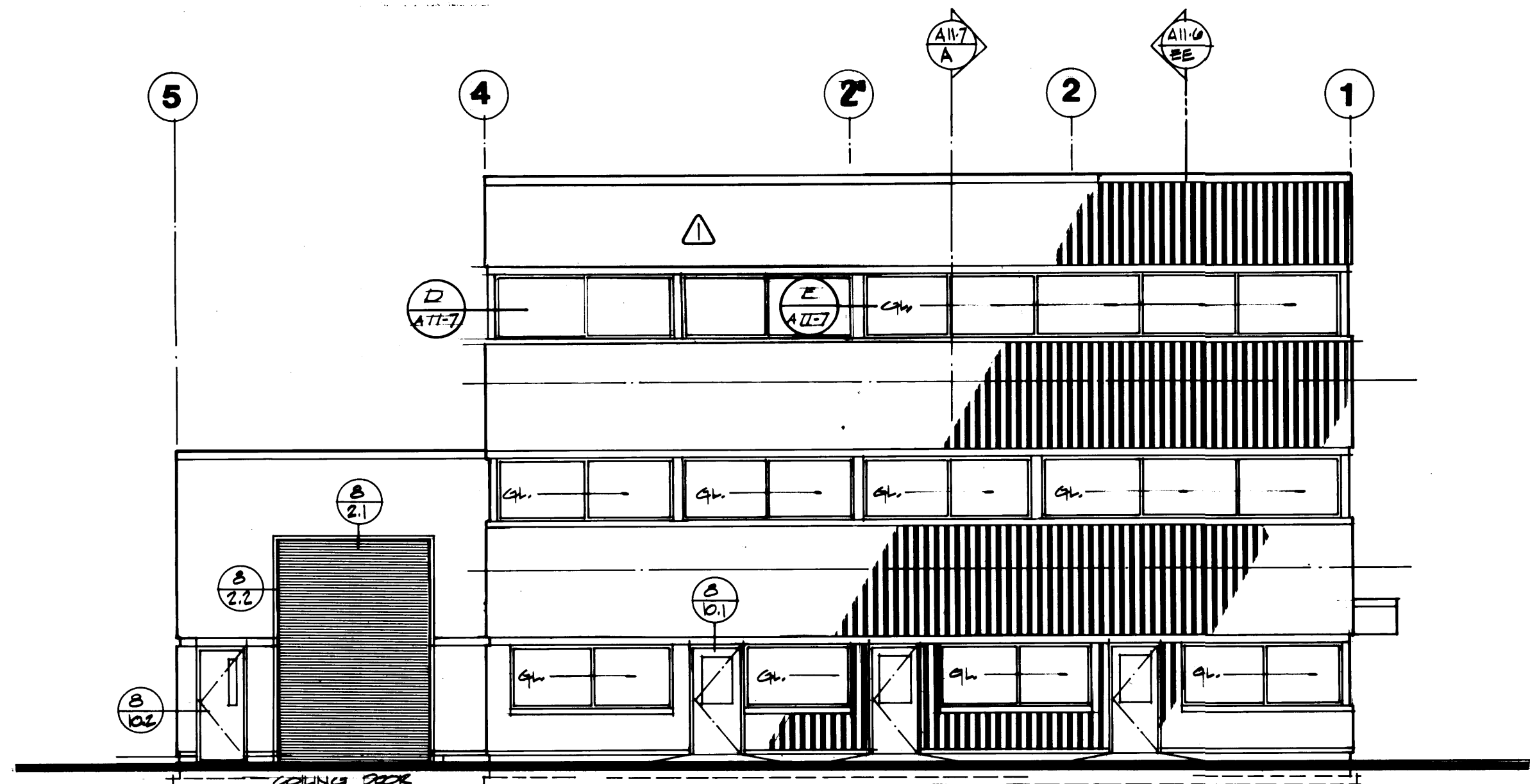
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PROJECT MANAGER	<i>[Signature]</i>
DATE	
DATE	
DATE	

1595 REGISTERED ARCHITECT  
JAMES R. McGRANAHAN  
STATE OF WASHINGTON

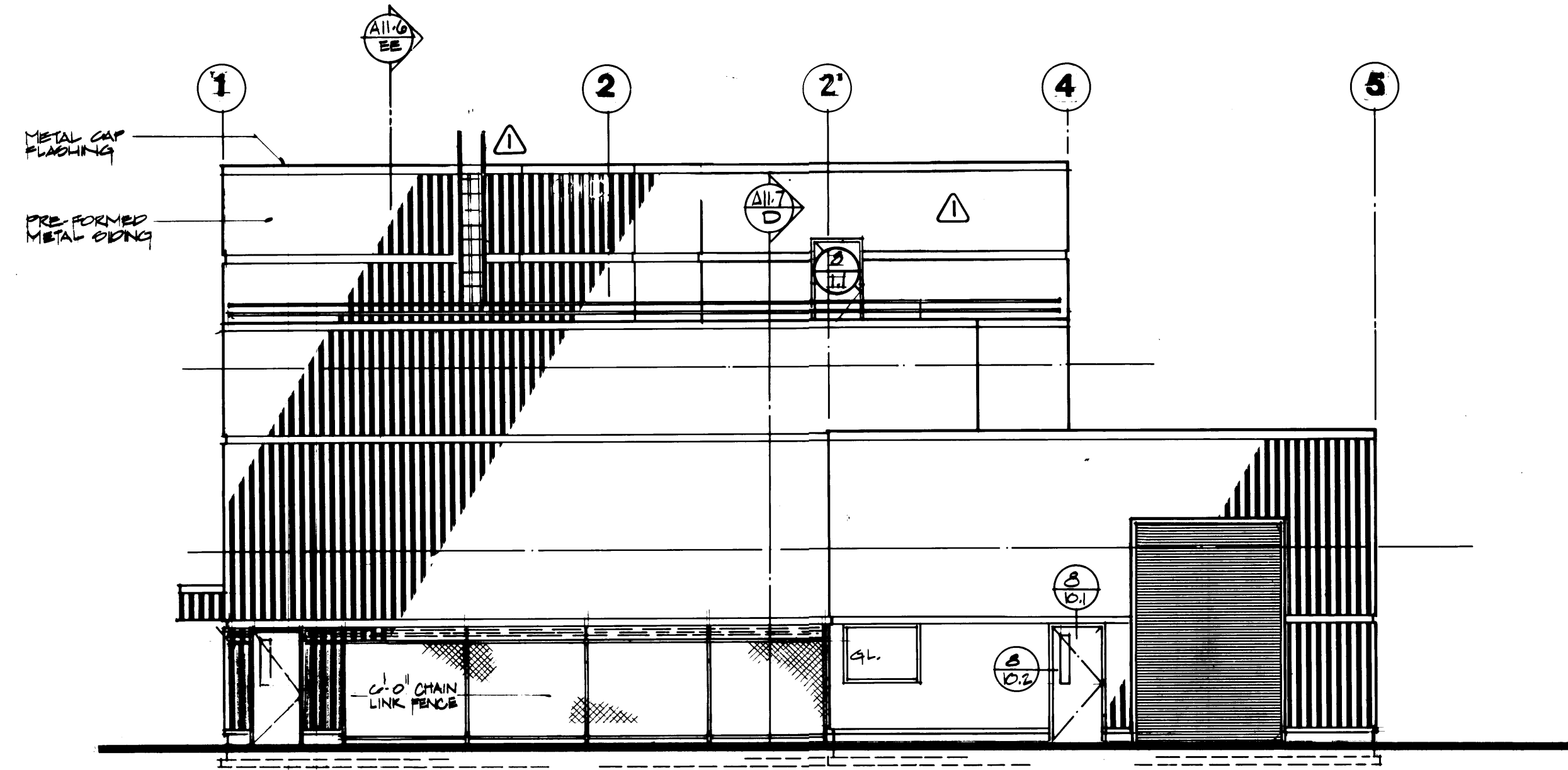
2618 REGISTERED ARCHITECT  
LYN H. MESSENGER  
STATE OF WASHINGTON



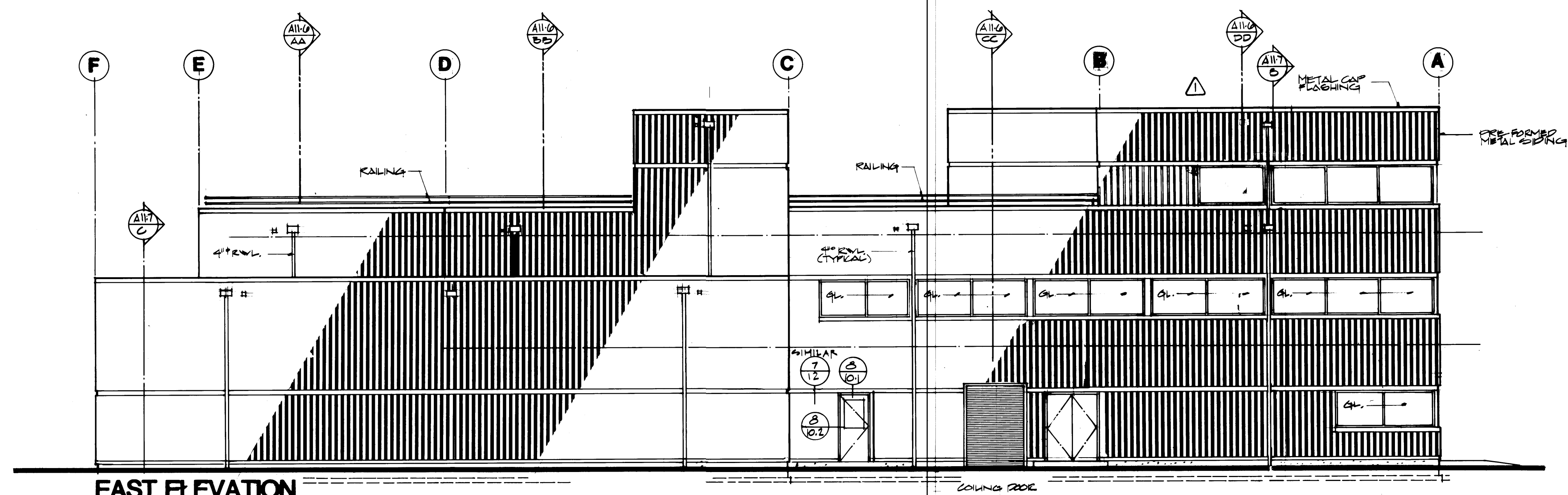
WEST ELEVATION



NORTH ELEVATION



SOUTH ELEVATION



EAST ELEVATION

1595 REGISTERED ARCHITECT  
 JAMES H. MCGRAHAM  
 STATE OF WASHINGTON

2618 REGISTERED ARCHITECT  
 LYN H. MESSENGER  
 STATE OF WASHINGTON

**PORT OF TACOMA**  
 TACOMA TERMINALS, INC.  
**MARINE SERVICES BUILDING**  
**EXTERIOR ELEVATIONS**

DRAWN DLF  
 DATE 9-21-84

CHECKED \_\_\_\_\_  
 DATE \_\_\_\_\_

CHECKED \_\_\_\_\_  
 DATE \_\_\_\_\_

CONT. NO. 582

FIELD BOOK (S) \_\_\_\_\_ SCALE \_\_\_\_\_

APPROVED \_\_\_\_\_ 9/24/84  
 PROJECT MANAGER DATE

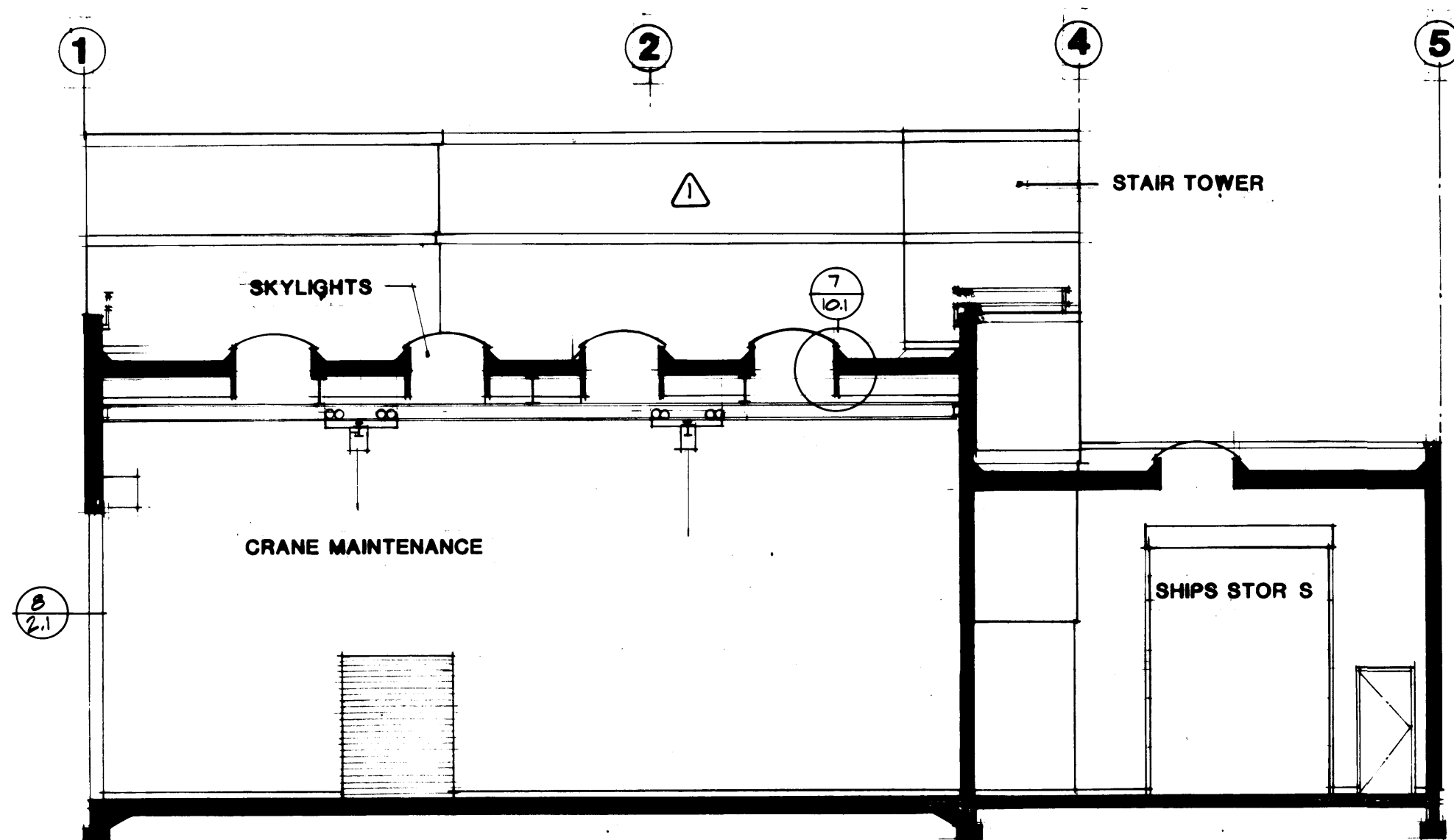
REVISOR \_\_\_\_\_ DATE

MARK REVISION BY APP. DATE

DRAWING NO. EP-3893-23  
 6-A11-5  
 A11-5 OF 13

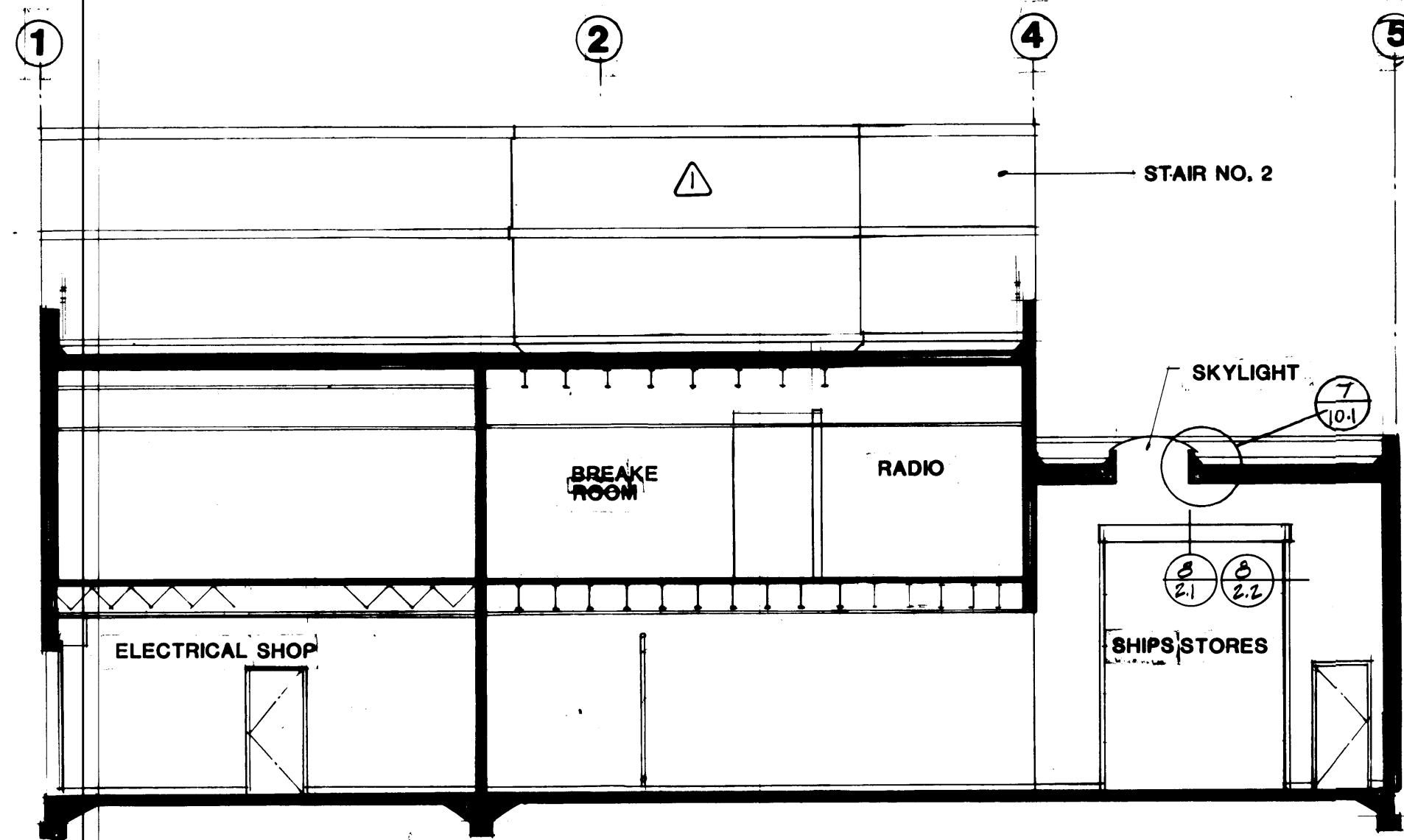
MARK	REVISION	BY	APP.	DATE
△	REVISED TO AS-BUILT	R.J.S.		8-28-85





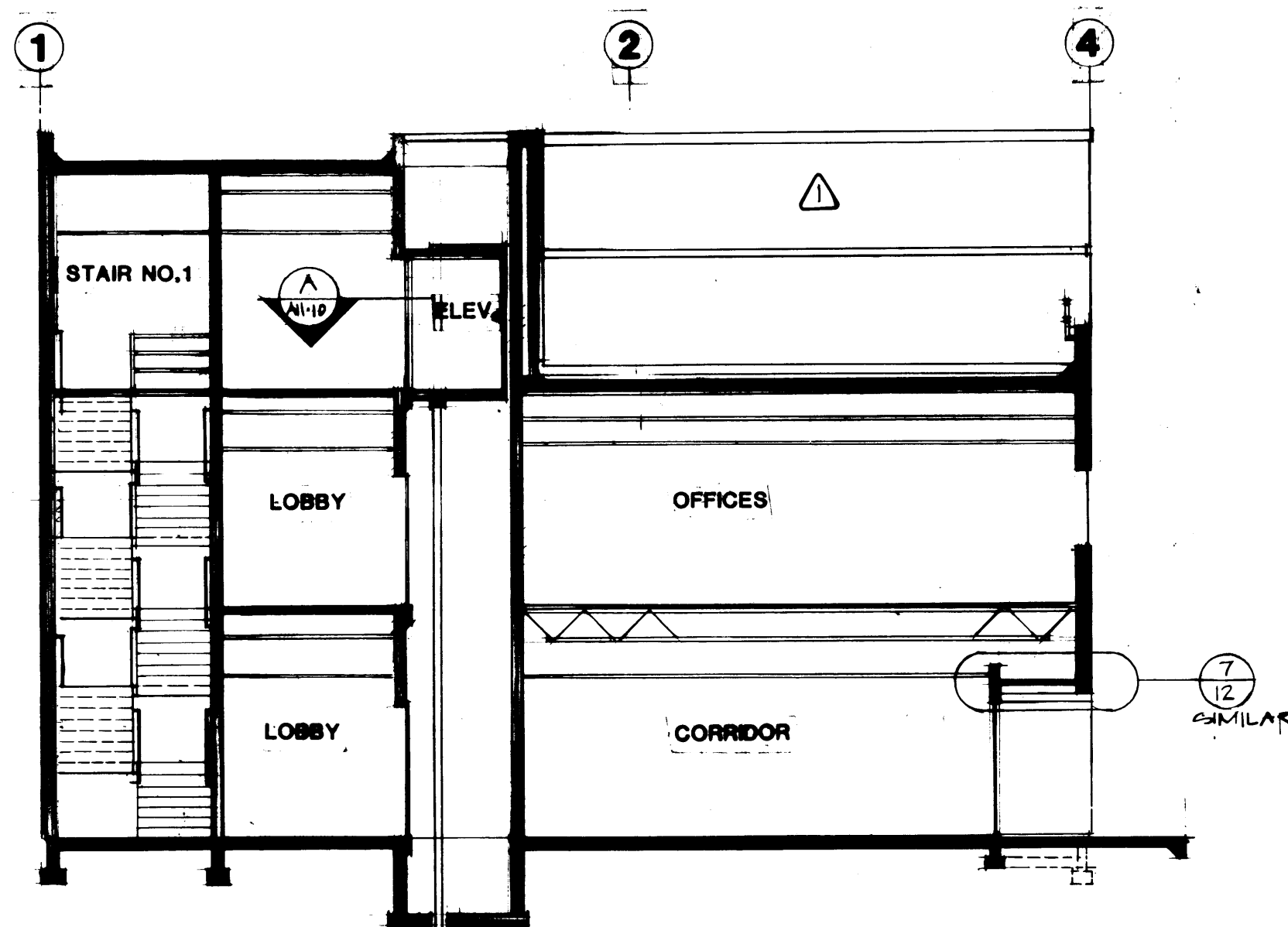
**BUILDING SECTION A-A**

SCALE 1/8"=1'-0"



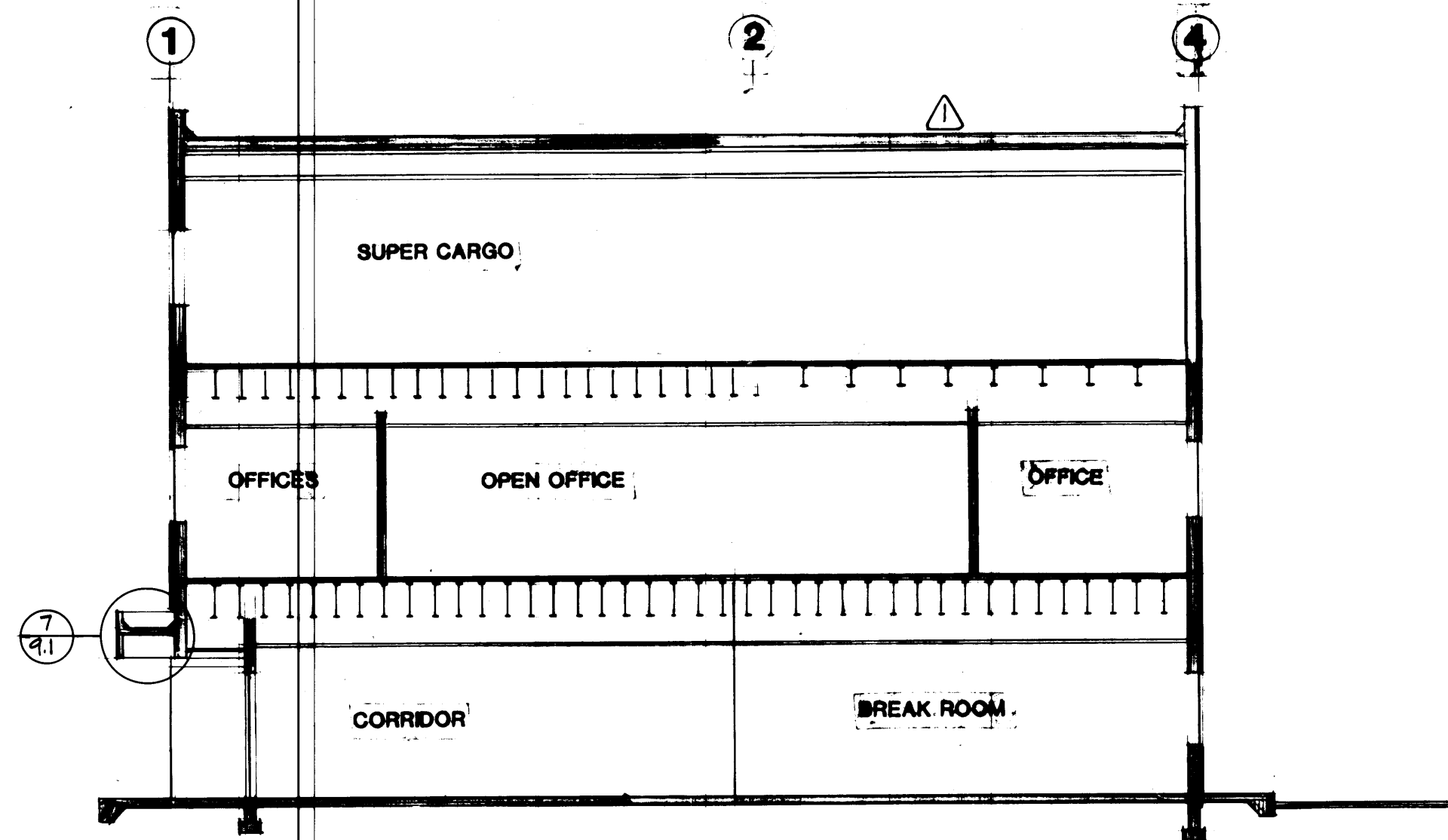
**BUILDING SECTION B-B**

SCALE 1/8"=1'-0"



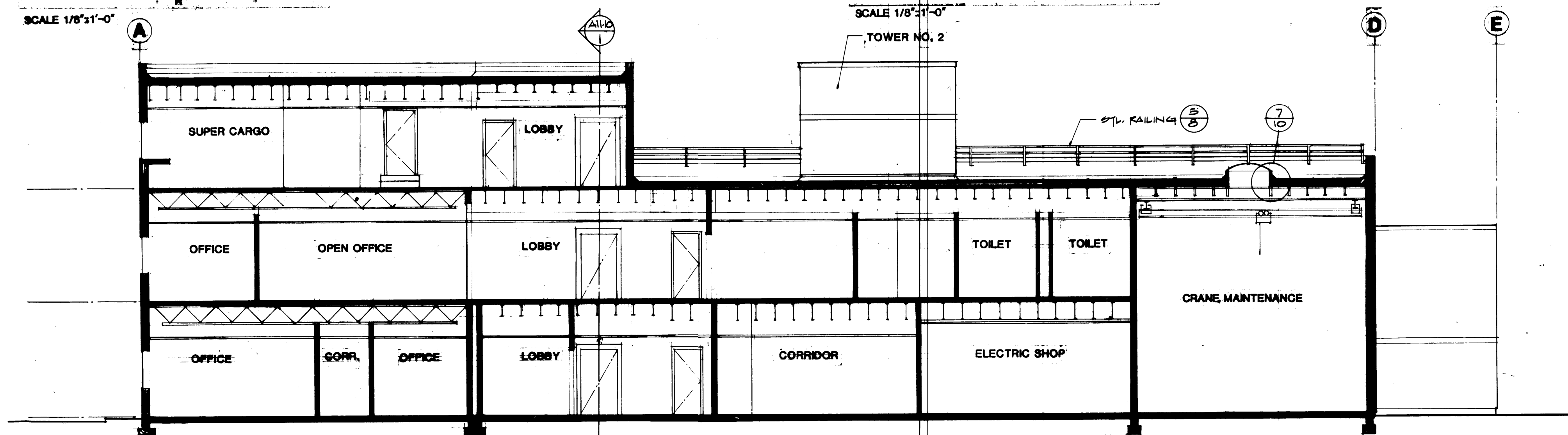
**BUILDING SECTION C-C**

SCALE 1/8"=1'-0"



**BUILDING SECTION D-D**

SCALE 1/8"=1'-0"



**BUILDING SECTION E-E**

SCALE 1/8"=1'-0"

1595 REGISTERED ARCHITECT  
 JAMES H. McGRANAHAN  
 STATE OF WASHINGTON

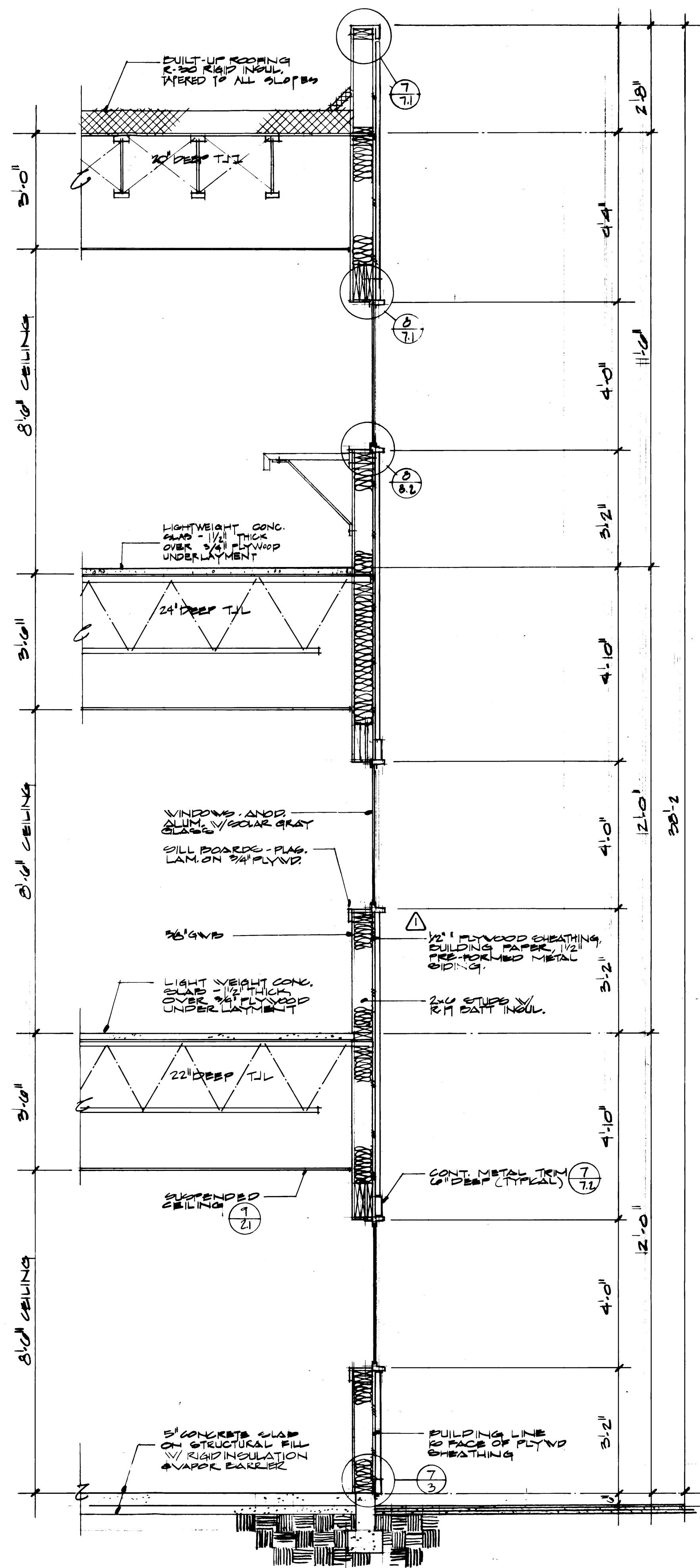
2618 REGISTERED ARCHITECT  
 LYN H. MESSENGER  
 STATE OF WASHINGTON

DRAWN <u>DLF</u>		DATE <u>9-21-84</u>	
CHECKED _____		DATE _____	
CHECKED _____		DATE _____	
CHECKED _____		DATE _____	
CONT. NO. <u>582</u>		SCALE <u>AS NOTED</u>	
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PROJECT MANAGER _____		DATE <u>9/24/84</u>	
CHIEF ENGINEER _____		DATE _____	
DRAWING NO. <u>EP-3883-23</u>		SHEET <u>6-11-6</u> OF <u>13</u>	

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REVISION	BY	APP.	DATE
<u>REVISED TO AS-BUILT</u>	<u>R.J.S.</u>		<u>9-28-85</u>





**WALL DETAIL A**

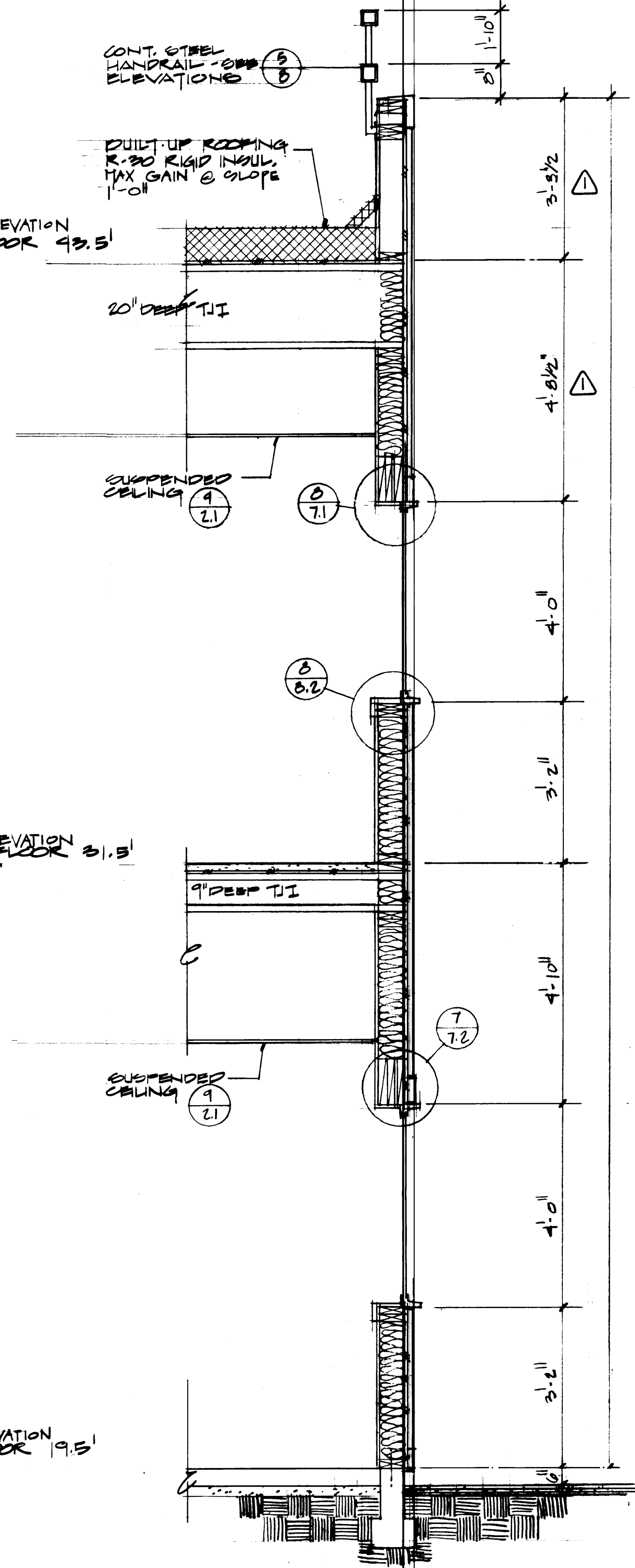
SCALE 1/2"=1'-0"

FINISHED ELEVATION  
ROOF DECK 35.0'

FINISH ELEVATION  
THIRD FLOOR 43.5'

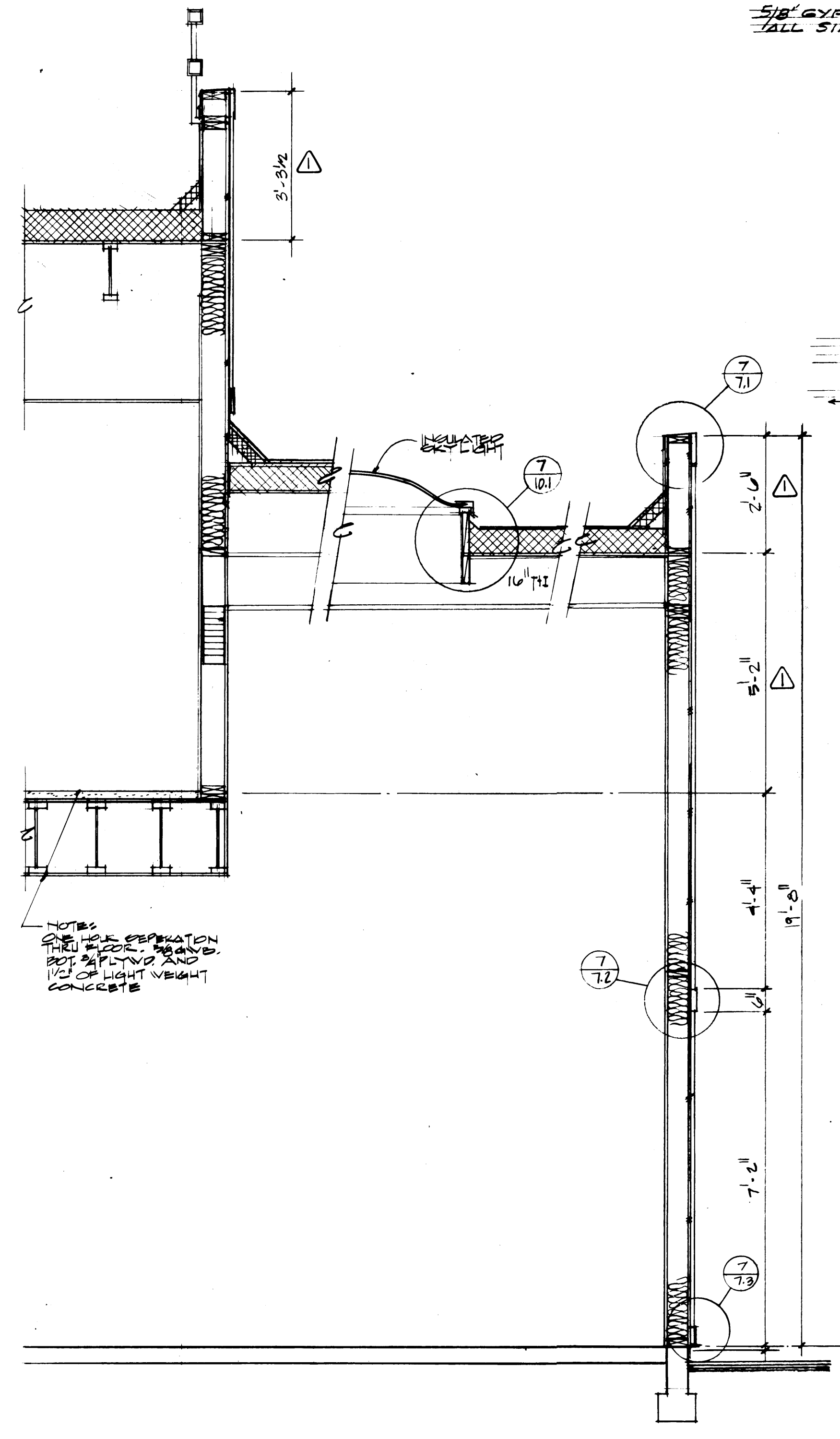
FINISH ELEVATION  
SECOND FLOOR 51.5'

FINISH ELEVATION  
FIRST FLOOR 59.5'



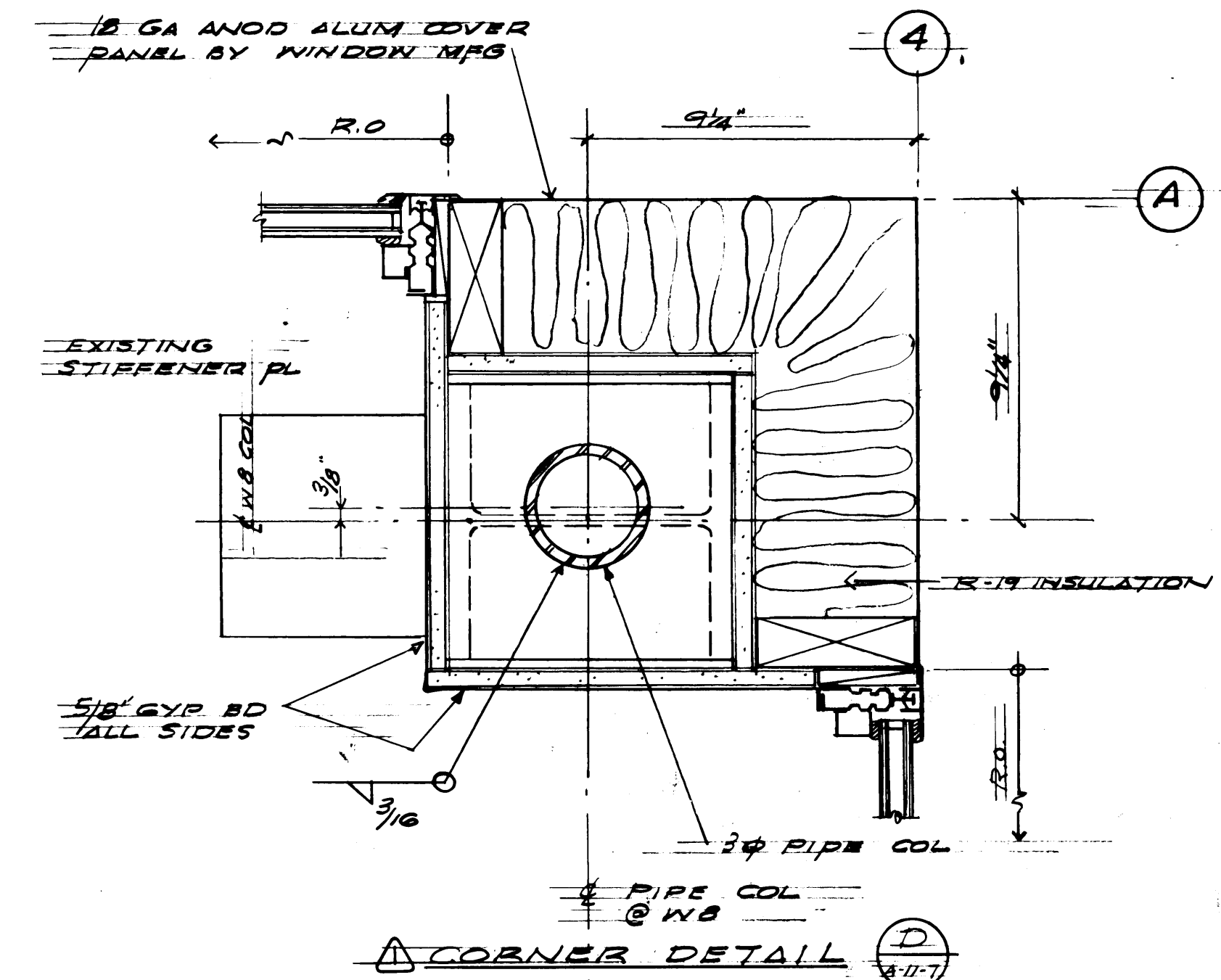
**WALL DETAIL B**

SCALE 1/2"=1'-0"

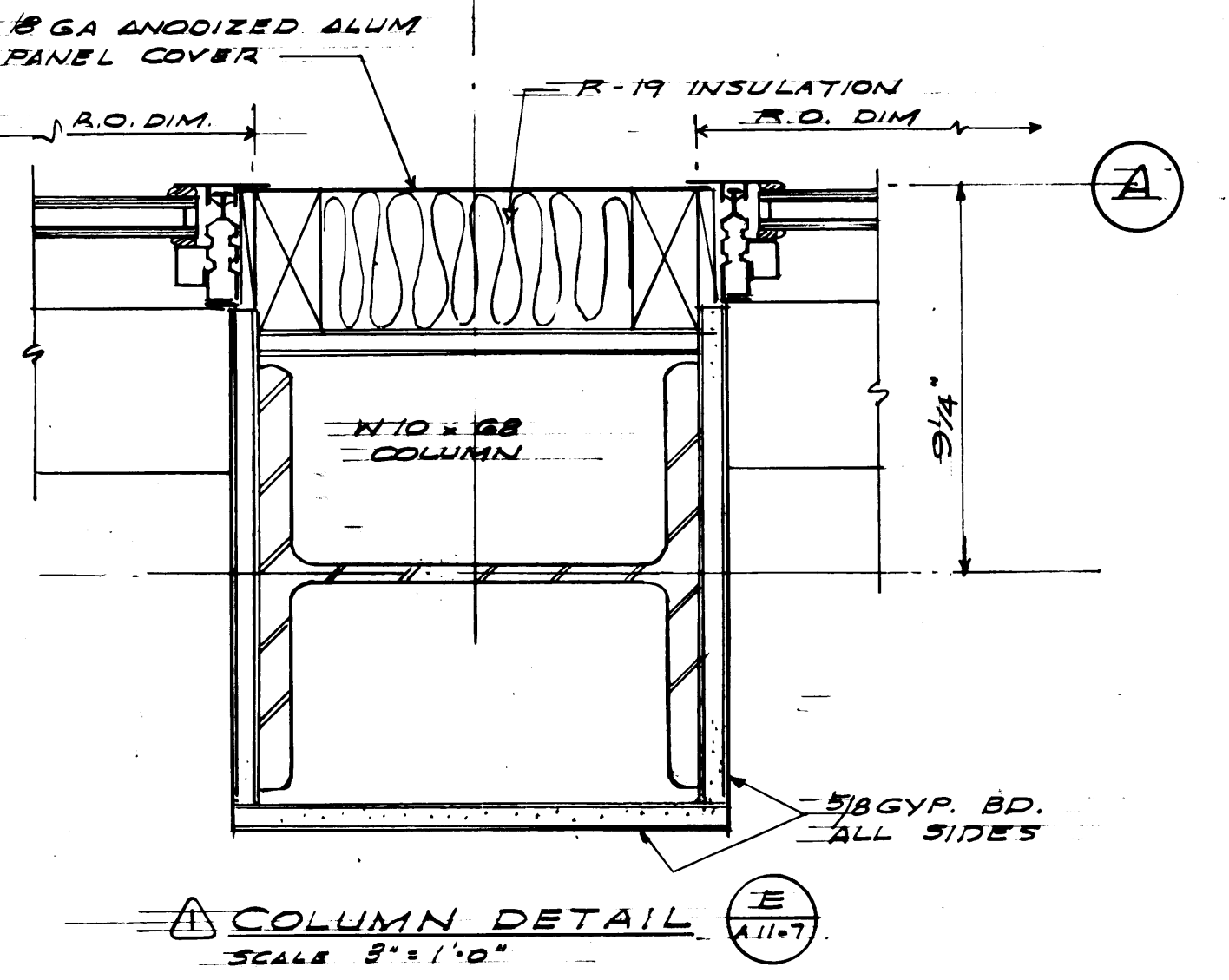


**WALL DETAIL C**

SCALE 1/2"=1'-0"



**CORNER DETAIL**



**COLUMN DETAIL**

DRAWN	JLM/MCG
DATE	9.21.84
CHECKED	
DATE	
CHECKED	
DATE	
CONT. NO.	892

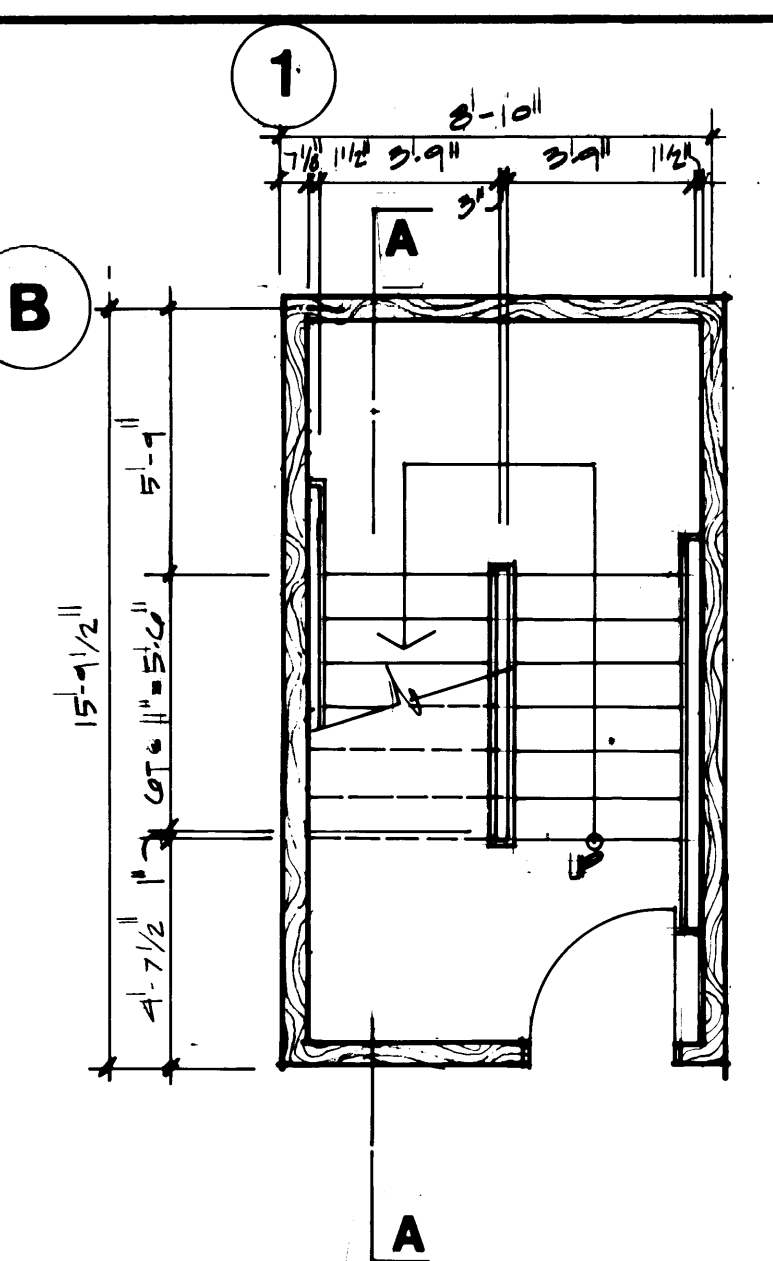
**PORT OF TACOMA**  
TACOMA TERMINALS, INC.  
**MARINE SERVICES BUILDING**  
**WALL SECTIONS**

1595 REGISTERED ARCHITECT JAMES H. McGRANAHAN STATE OF WASHINGTON	2618 REGISTERED ARCHITECT LYN H. MESSENGER STATE OF WASHINGTON
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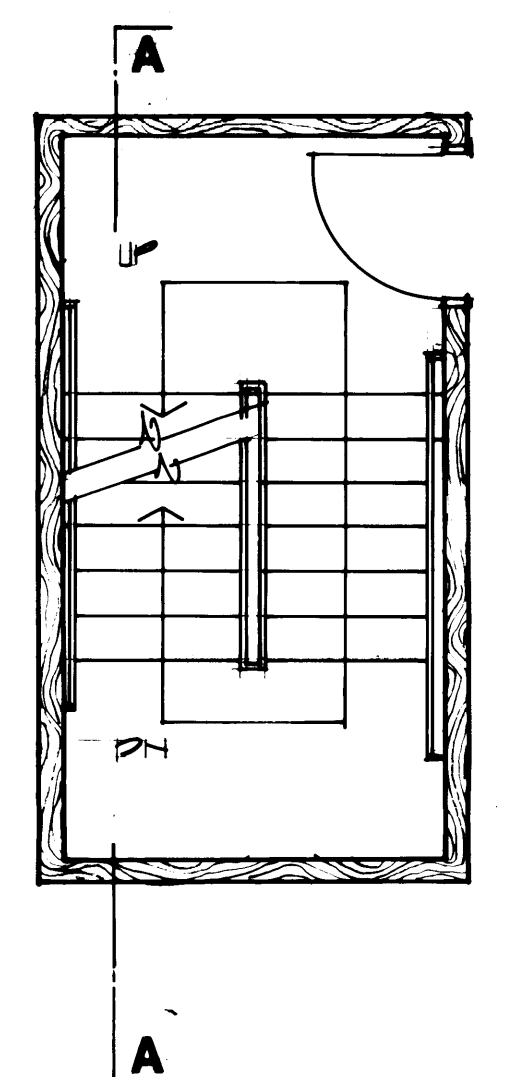
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ARCHITECTURE / PLANNING / INTERIORS  
MEMBER AMERICAN INSTITUTE OF ARCHITECTS • PROJECT # 1111, BUREAU 300, TACOMA, WA 98404 • (206) 383-3088

REVISION	BY	APP.	DATE
REVISIED TO AS BUILT	A.J.S.		8.28.84

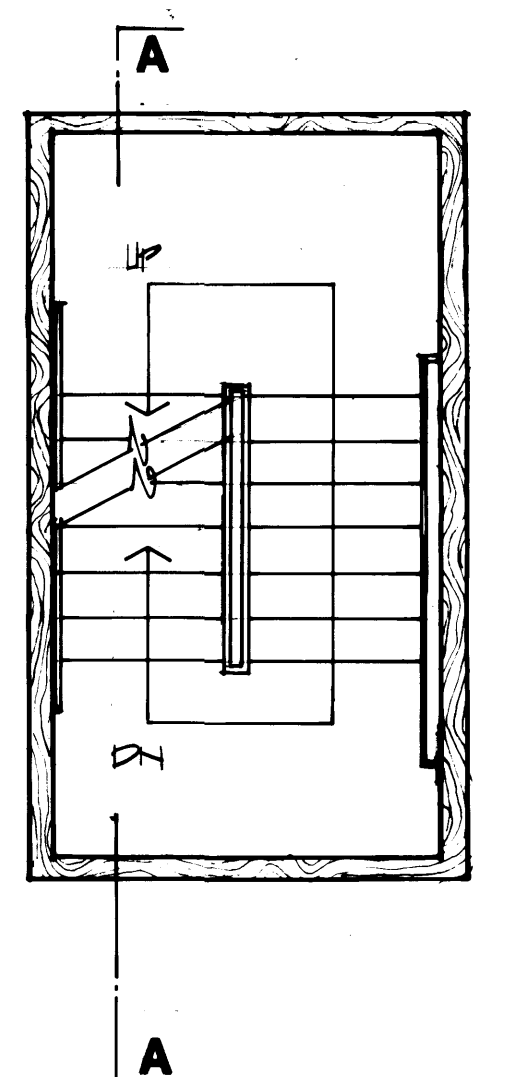
FIELD BOOK (S)	SCALE	AS NOTED
APPROVED		
PROJECT MANAGER	DATE	
CHIEF ENGINEER	DATE	
DRAWING NO.	EP-3893-23	
DATE	8-A11-7	
SHEET	A11-7 OF 13	



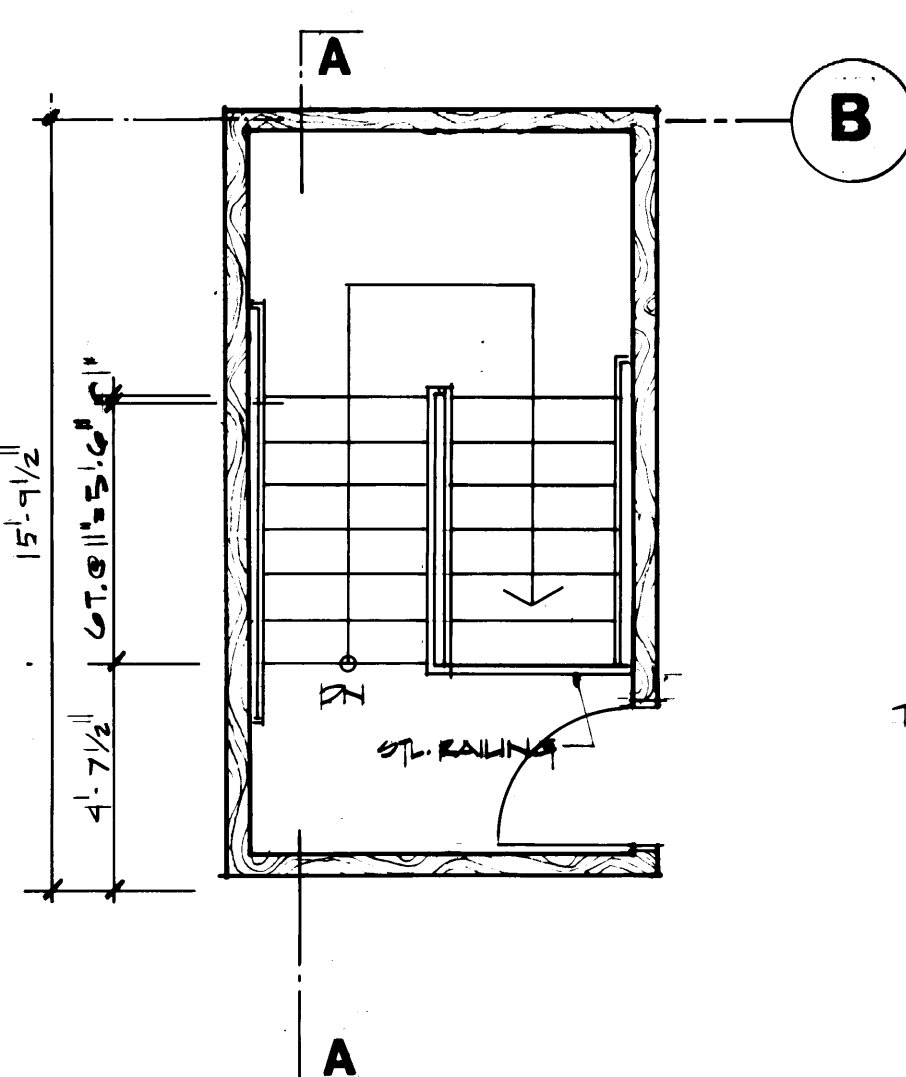
**STAIR PLAN**  
FIRST FLOOR LEVEL



**STAIR PLAN**  
SECOND FLOOR LEVEL

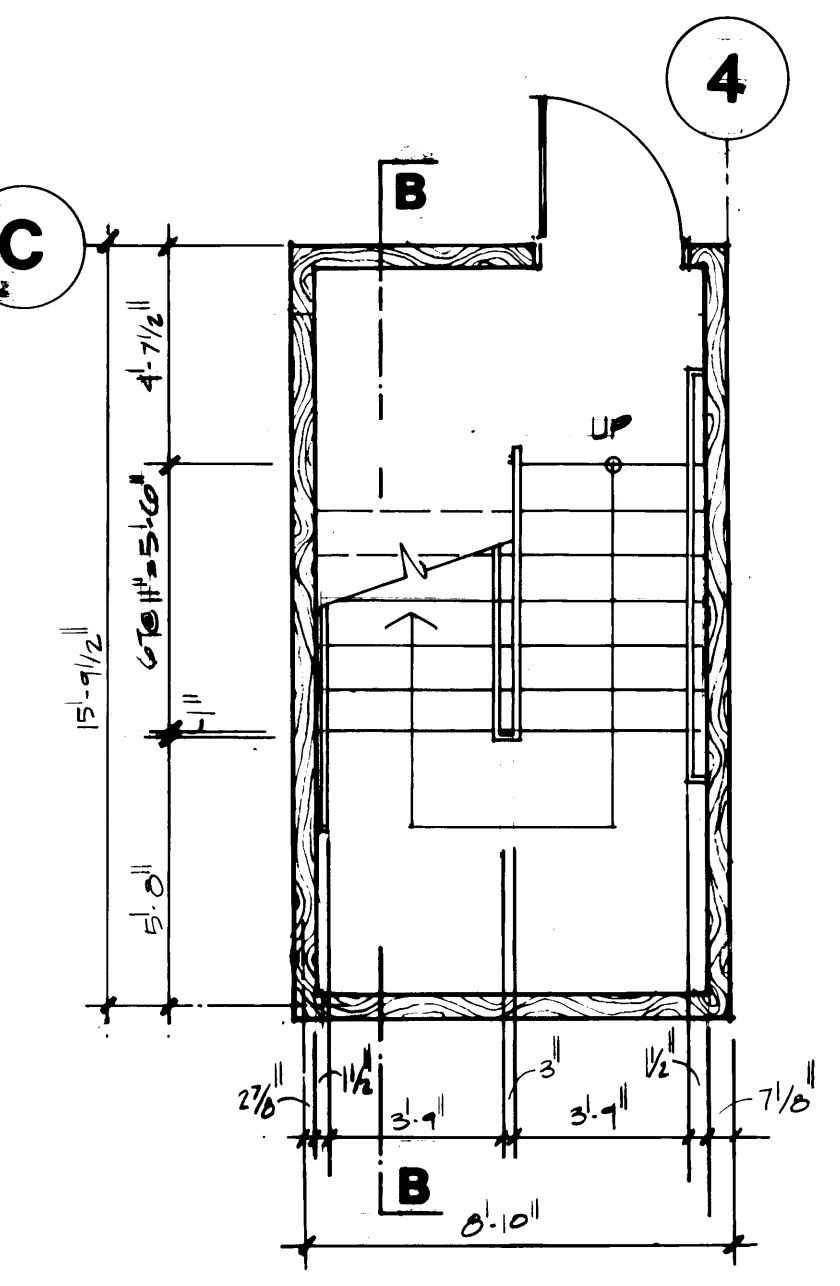


**STAIR PLAN**  
INTERMEDIATE LEVEL

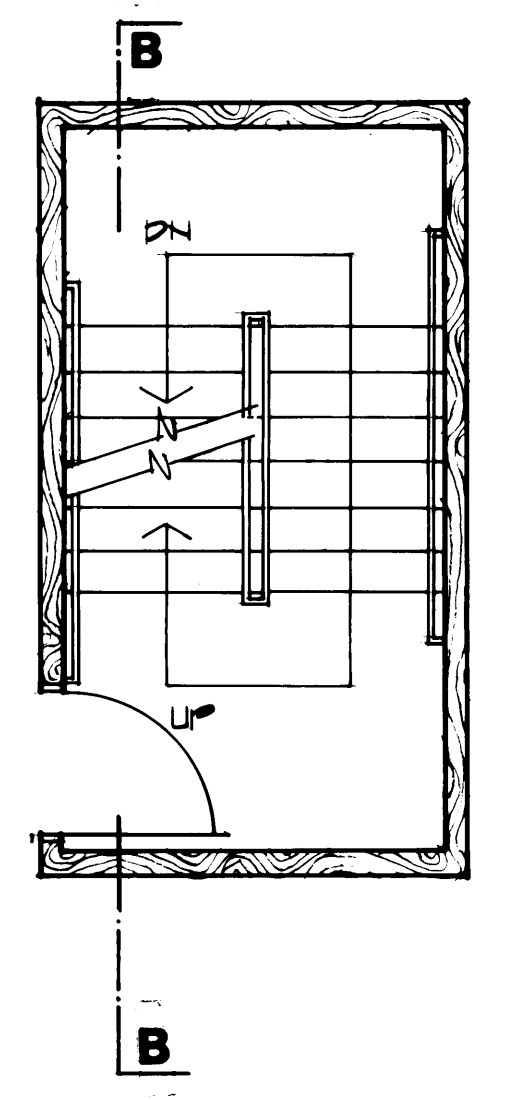


**STAIR PLAN**  
THIRD FLOOR PLAN

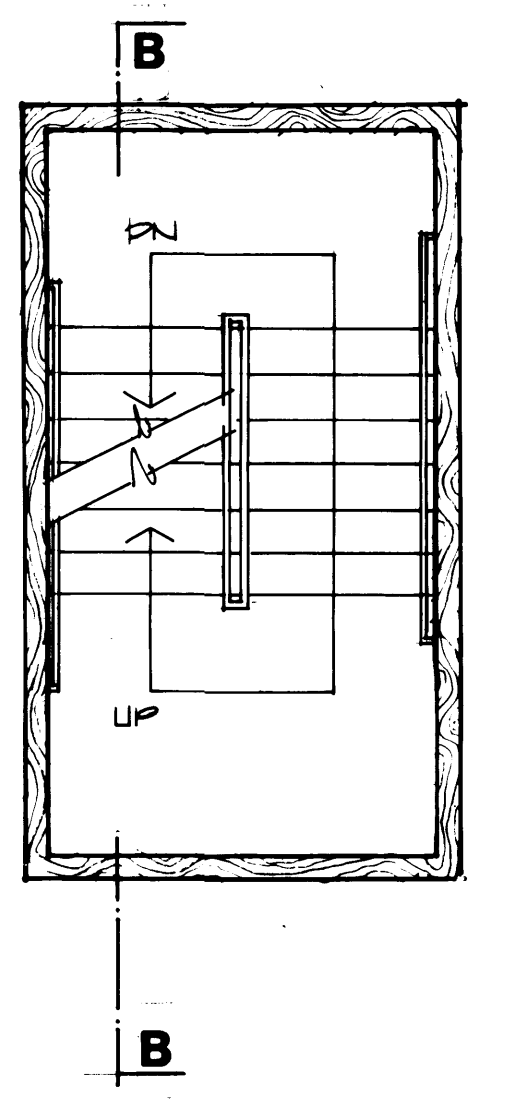
**STAIR NO. 1 PLANS**  
1/4"=1'-0"



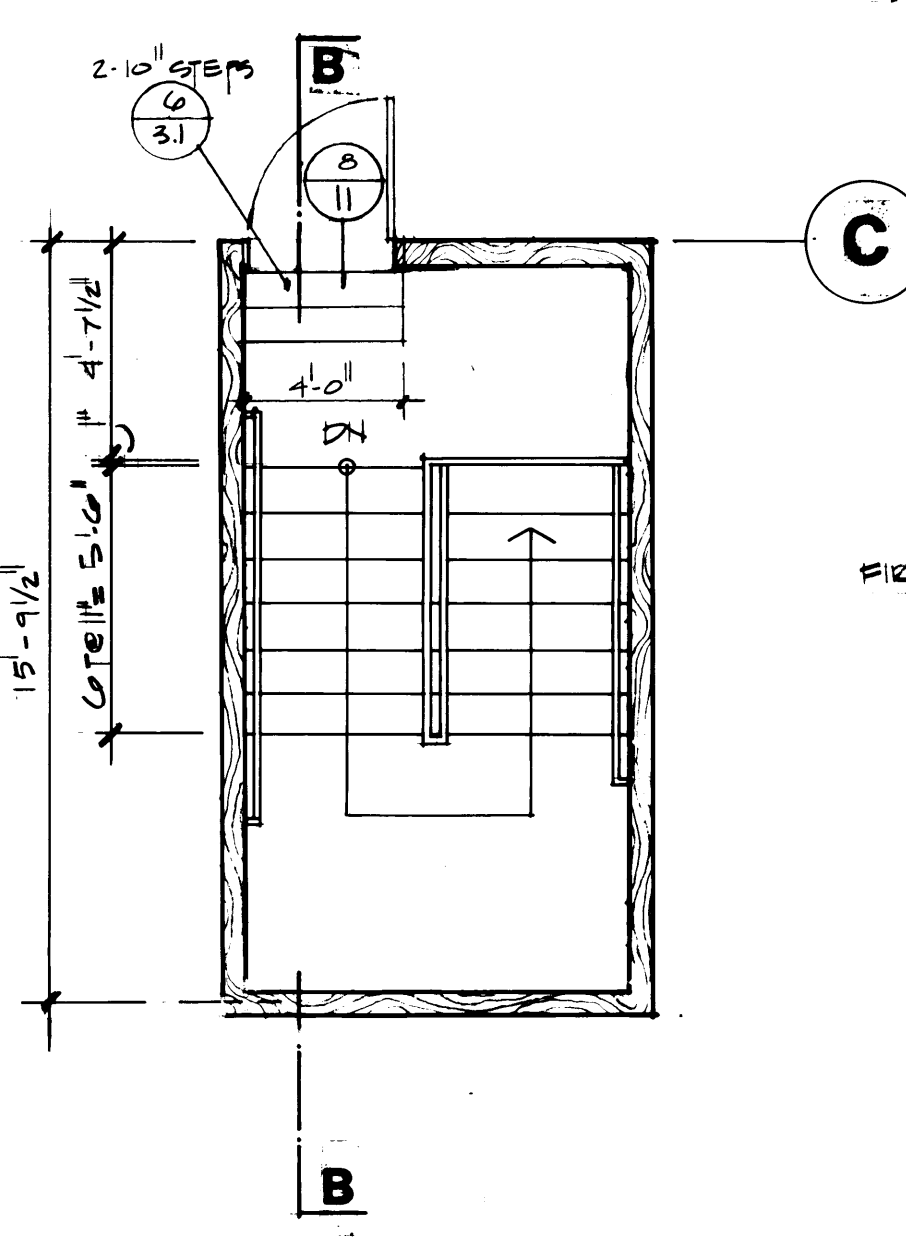
**STAIR PLAN**  
FIRST FLOOR LEVEL



**STAIR PLAN**  
SECOND FLOOR LEVEL

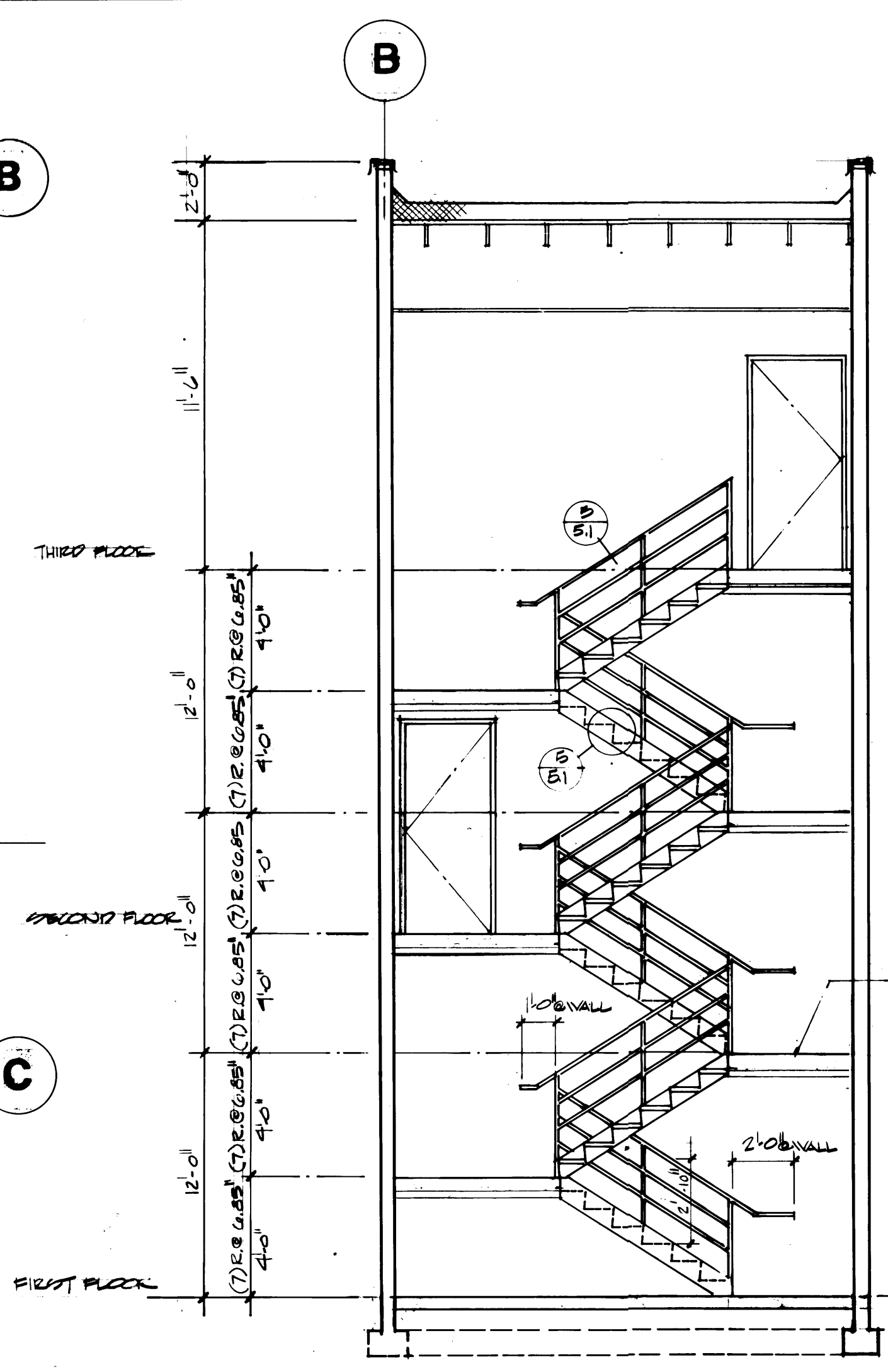


**STAIR PLAN**  
INTERMEDIATE LEVEL



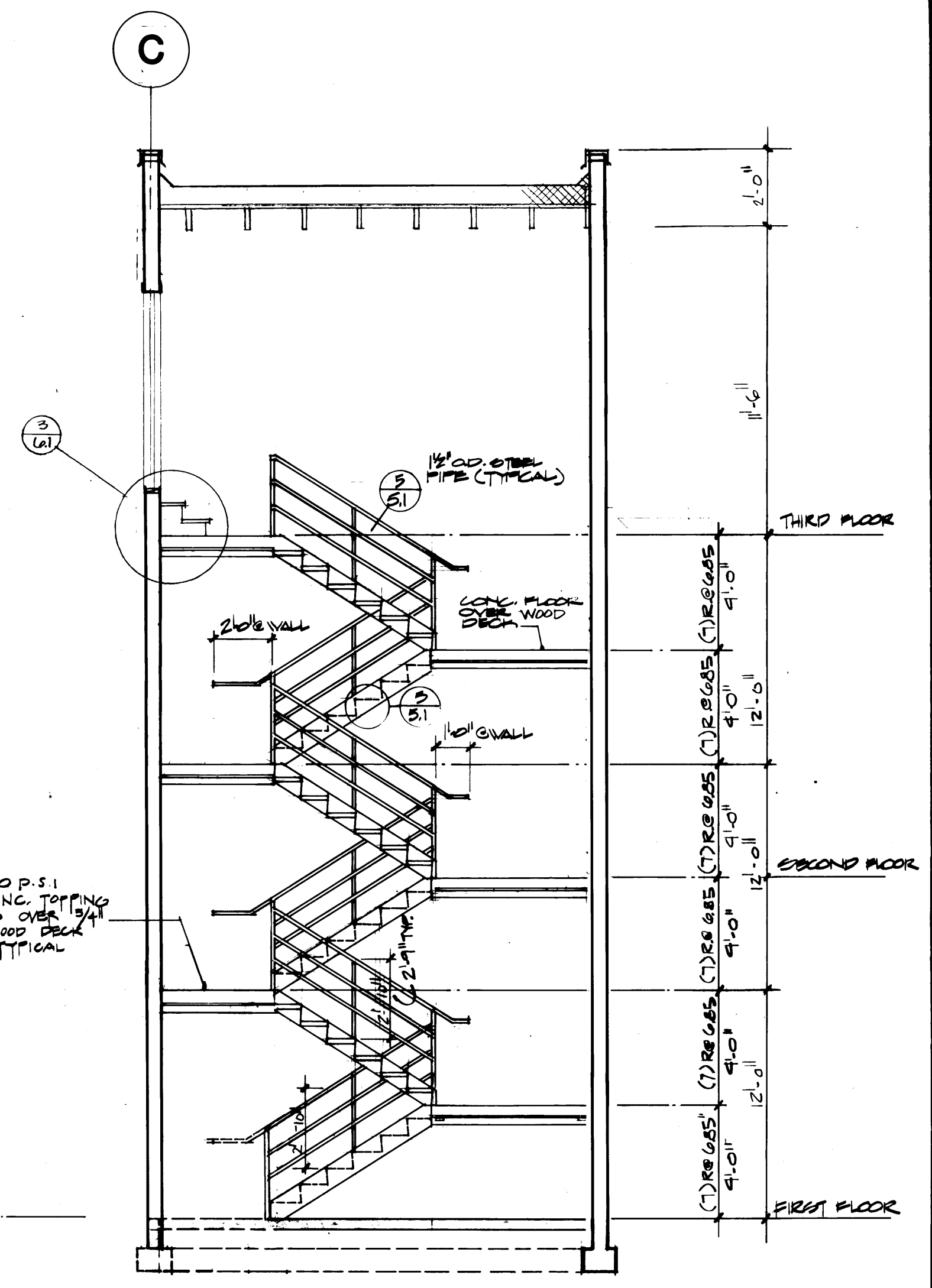
**STAIR PLAN**  
THIRD FLOOR PLAN

**STAIR NO. 2 PLANS**  
1/4"=1'-0"



**STAIR SECTION A**  
STAIR NO. ONE 1/4"=1'-0"

STAIR NO. 1	FLOOR	BASE	WALL	CEILING
FINISH SCHEDULE	14	20	33	53



**STAIR SECTION B**  
STAIR NO. TWO 1/4"=1'-0"

STAIR NO. 2	FLOOR	BASE	WALL	CEILING
FINISH SCHEDULE	14	20	33	53

**McGRANAHAN,  
MESSENGER  
ASSOCIATES**  
ARCHITECTURE / PLANNING / INTERIORS  
MEMBER AMERICAN INSTITUTE OF ARCHITECTS • 950 FAWCETT BLDG. 300 TACOMA, WA 98402 • (206) 383-3034

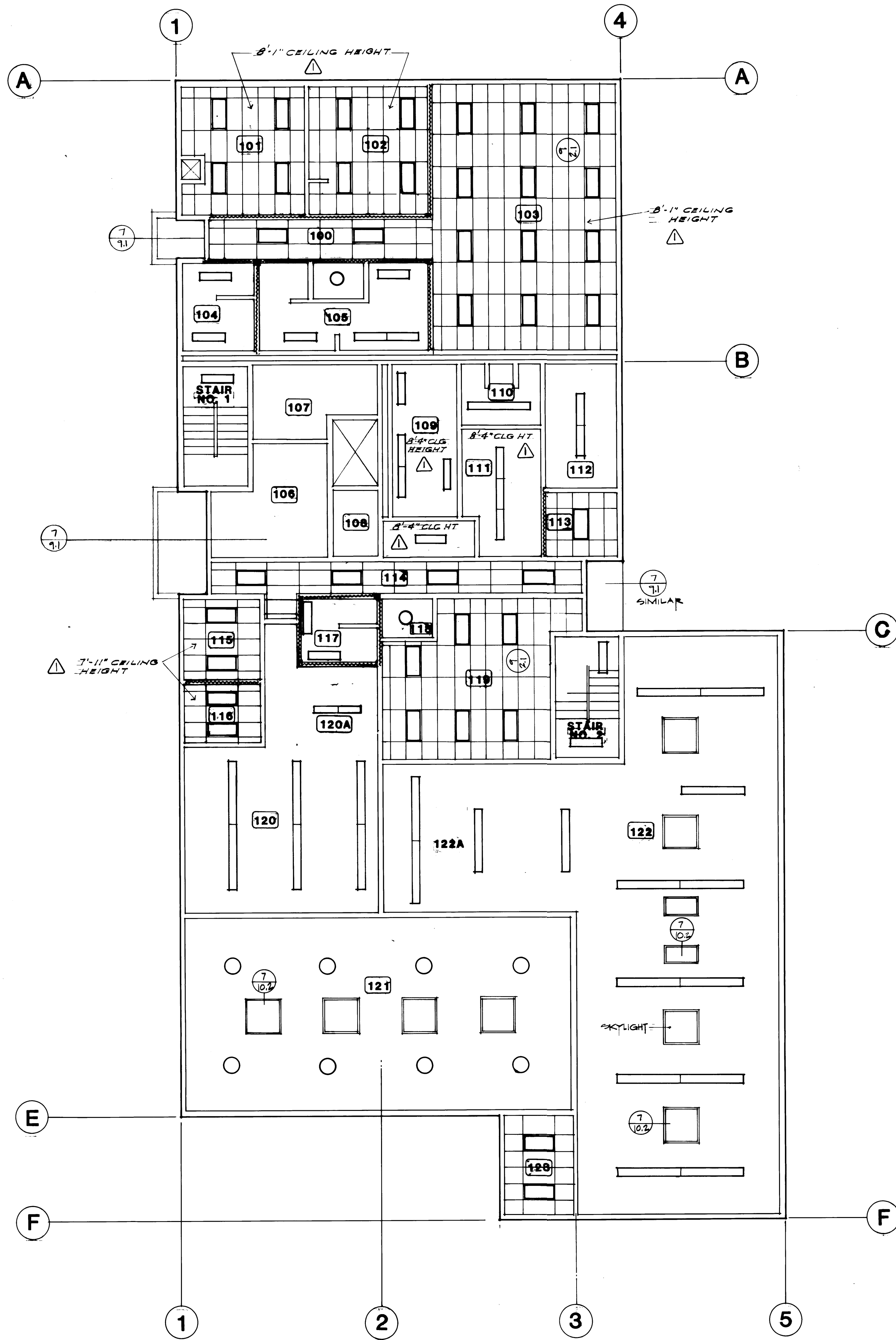
DRAWN *J.M.C.G.*  
DATE *9-21-84*  
CHECKED \_\_\_\_\_  
DATE \_\_\_\_\_  
CHECKED \_\_\_\_\_  
DATE \_\_\_\_\_  
CONT. NO. *588*  
FIELD BOOK (S) \_\_\_\_\_

**PORT OF TACOMA**  
TACOMA TERMINALS, INC.  
**MARINE SERVICES BUILDING**  
**STAIR PLANS & SECTIONS**  
SCALE *AS NOTED*  
APPROVED *[Signature]* *9/28/84*  
PROJECT MANAGER DATE  
*[Signature]* CHIEF ENGINEER DATE  
DRAWING NO. *EP-3893-23*  
*6-A11-8*  
SHEET *A11-8* OF *13*

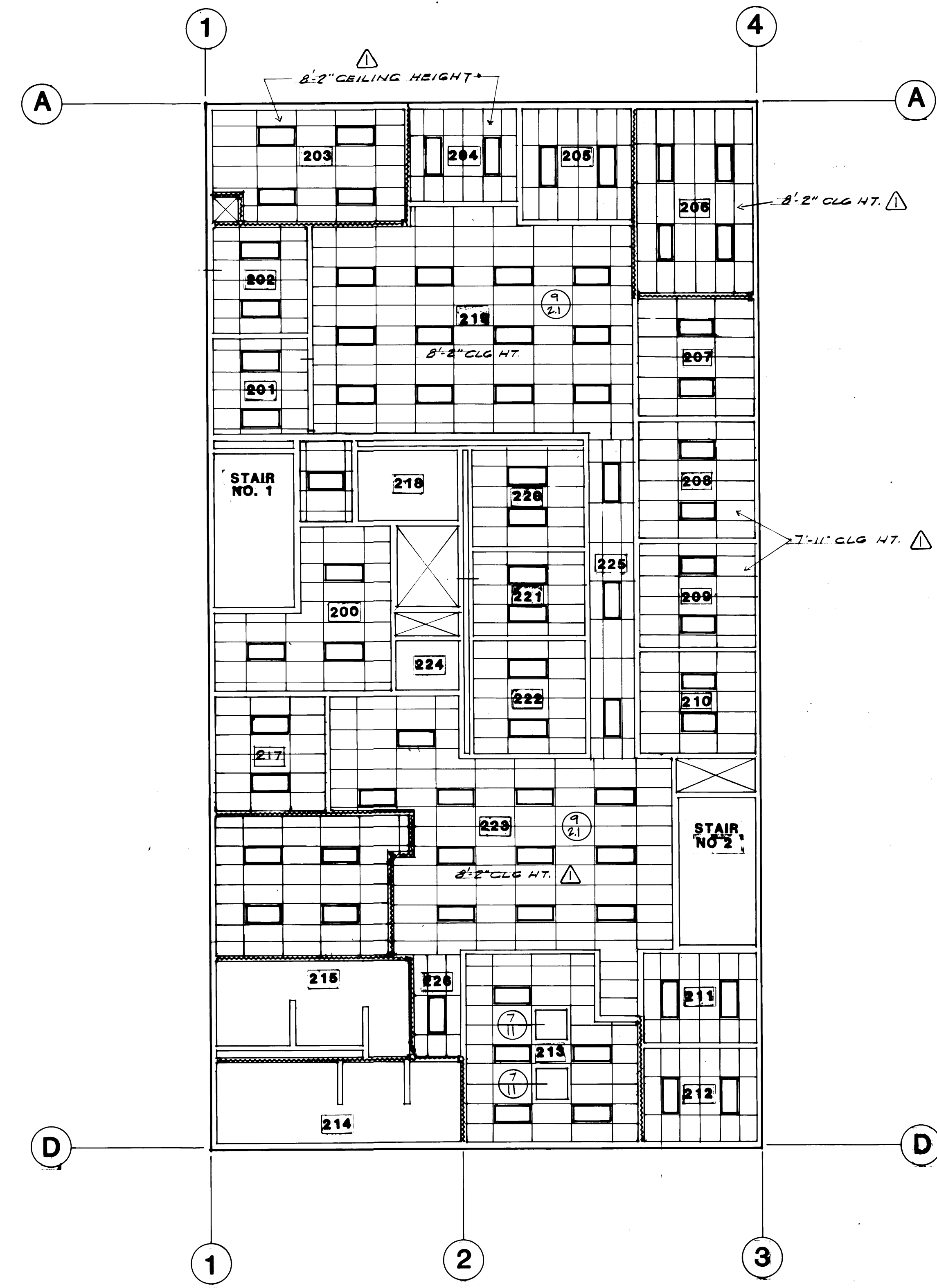
1595 REGISTERED ARCHITECT  
*[Signature]*  
JAMES A. McGRANAHAN  
STATE OF WASHINGTON

2418 REGISTERED ARCHITECT  
*[Signature]*  
LYN H. MESSENGER  
STATE OF WASHINGTON

MARK	REVISION	BY	APP.	DATE
△	REVISED TO AS-BUILT	RJS		9-28-85



**REFLECTED CEILING PLAN, FIRST LEVEL**  
SCALE 1/8"=1'-0"



**REFLECTED CEILING PLAN, SECOND LEVEL**  
SCALE 1/8"=1'-0"

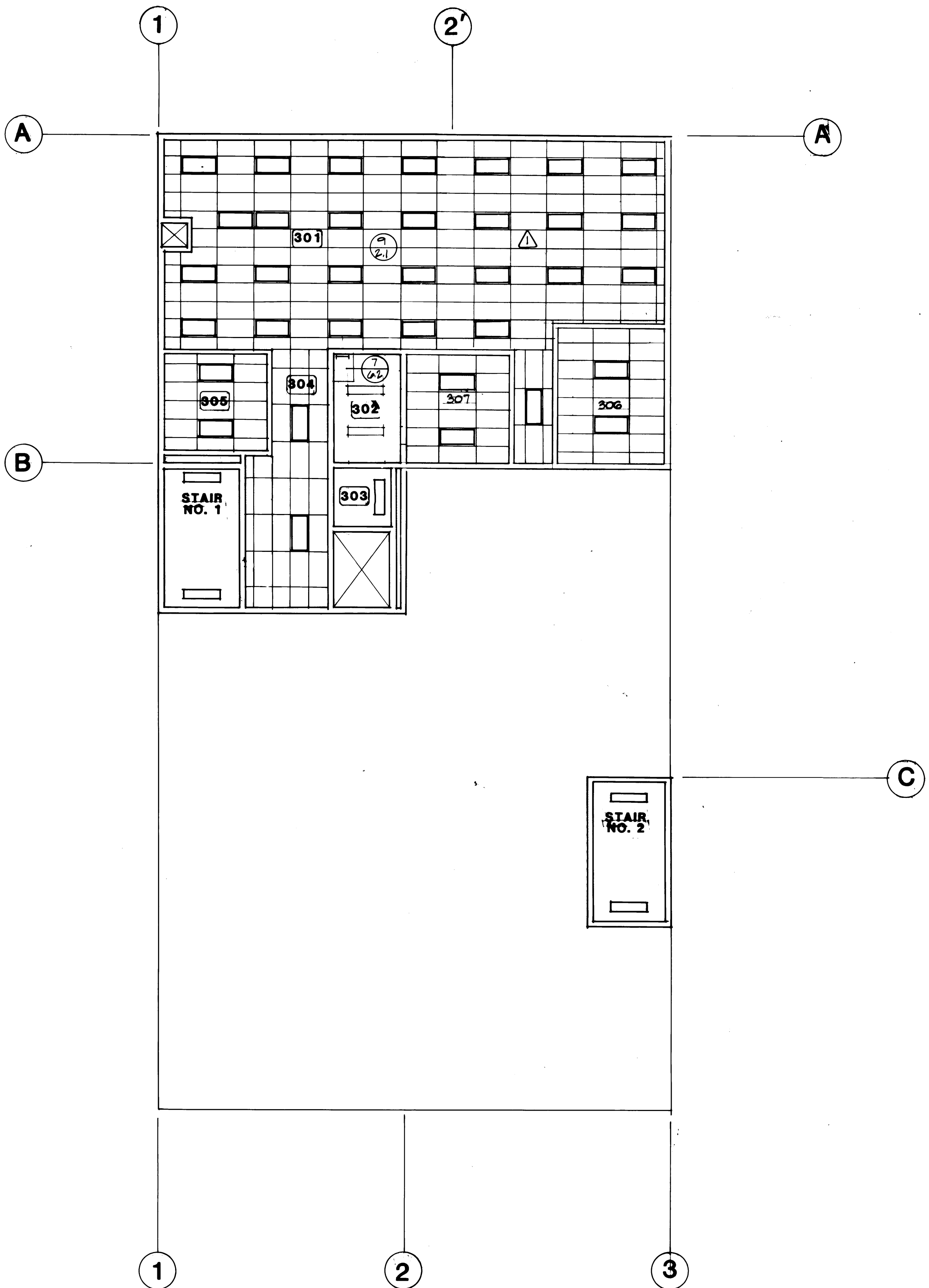
1595 REGISTERED ARCHITECT <i>James McGranahan</i> JAMES McGRANAHAN STATE OF WASHINGTON	2618 REGISTERED ARCHITECT <i>Ely M. Messenger</i> ELY M. MESSENGER STATE OF WASHINGTON
---	---

**McGRANAHAN, MESSENGER ASSOCIATES**  
ARCHITECTURE / PLANNING / INTERIORS  
MEMBER AMERICAN INSTITUTE OF ARCHITECTS • 950 FAWCETT BLVD. SUITE 300, TACOMA, WA 98402 • (206) 383-3084

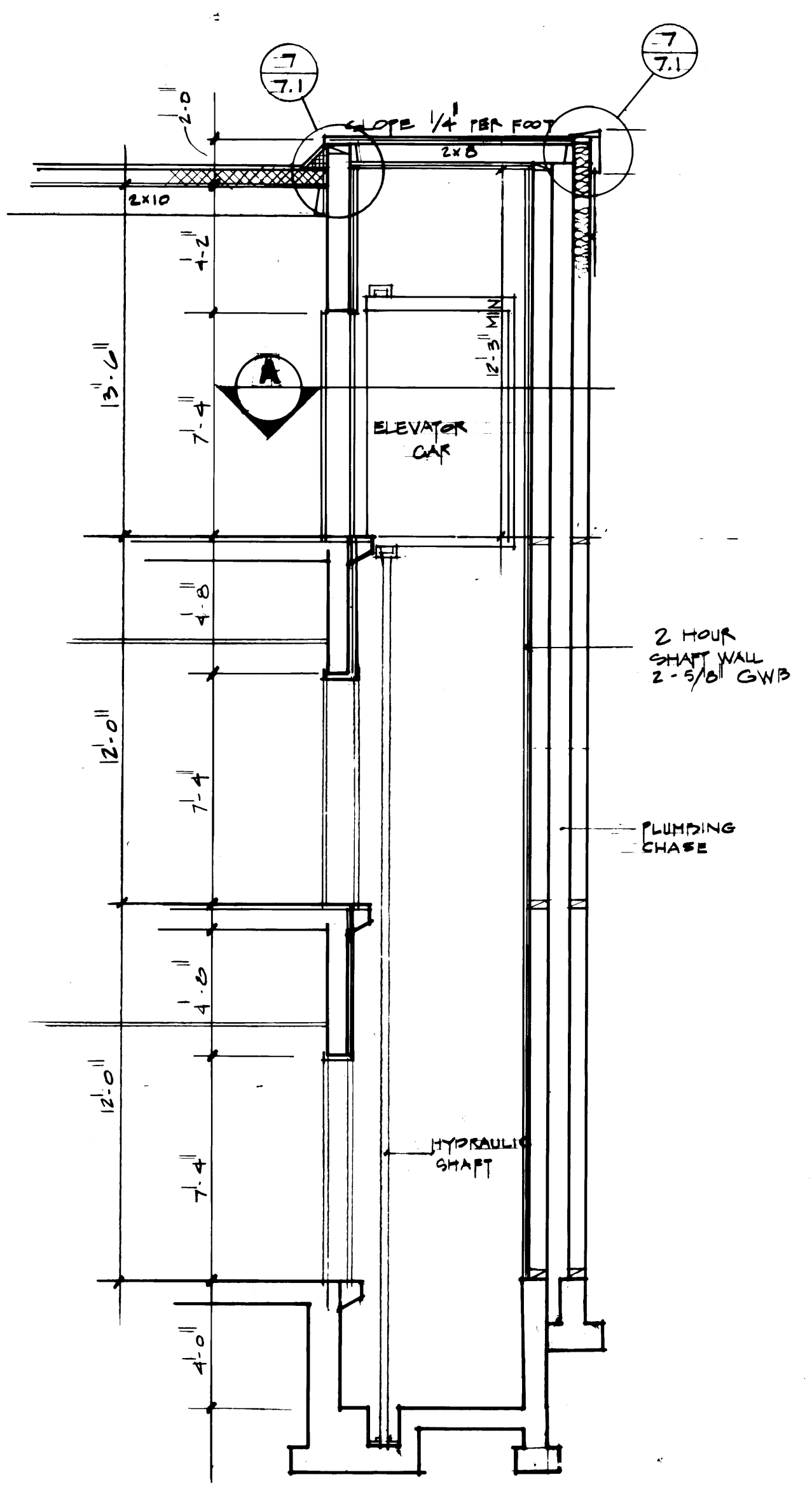
DRAWN <i>EJF, MCG</i>		<b>PORT OF TACOMA</b>	
DATE 9-21-84		TACOMA TERMINALS, INC.	
CHECKED		<b>MARINE SERVICES BUILDING</b>	
DATE		<b>REFLECTED CEILING PLAN</b>	
CHECKED		<b>FIRST &amp; SECOND LEVELS</b>	
DATE		CONT. NO. 562	SCALE AS NOTED
CHECKED		FIELD BOOK (S)	DRAWING NO. EP-3893-23
DATE		APPROVED <i>James McGranahan</i> 9/24/84	6-A11-9
CONT. NO. 562		PROJECT MANAGER <i>James McGranahan</i>	A11-9 OF 13
		DATE 9/24/84	
		DATE	
		DATE	

REVISION	BY	APP.	DATE
REVISIOED TO AS-BUILT	A.J.S.		8-29-85

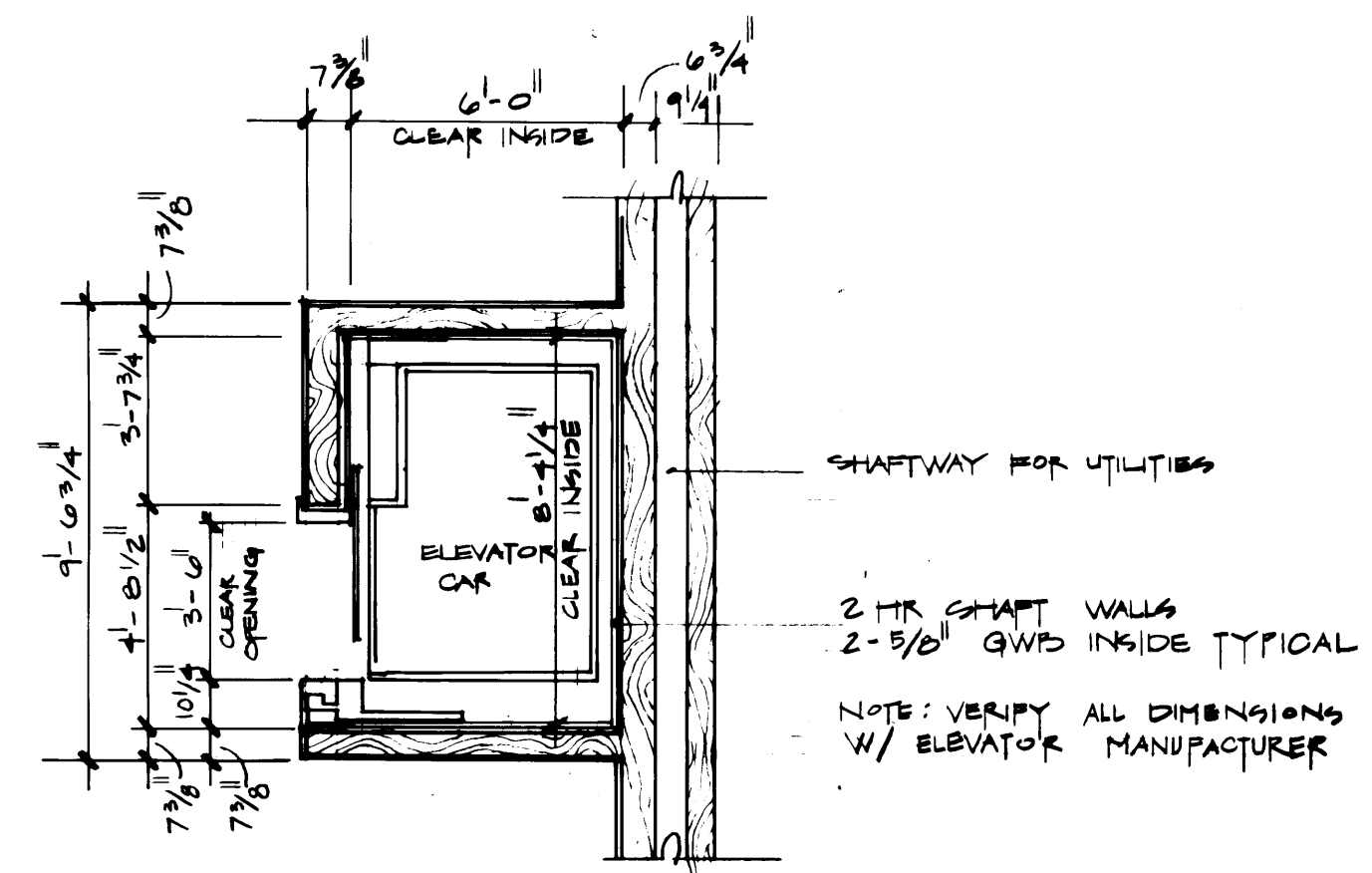




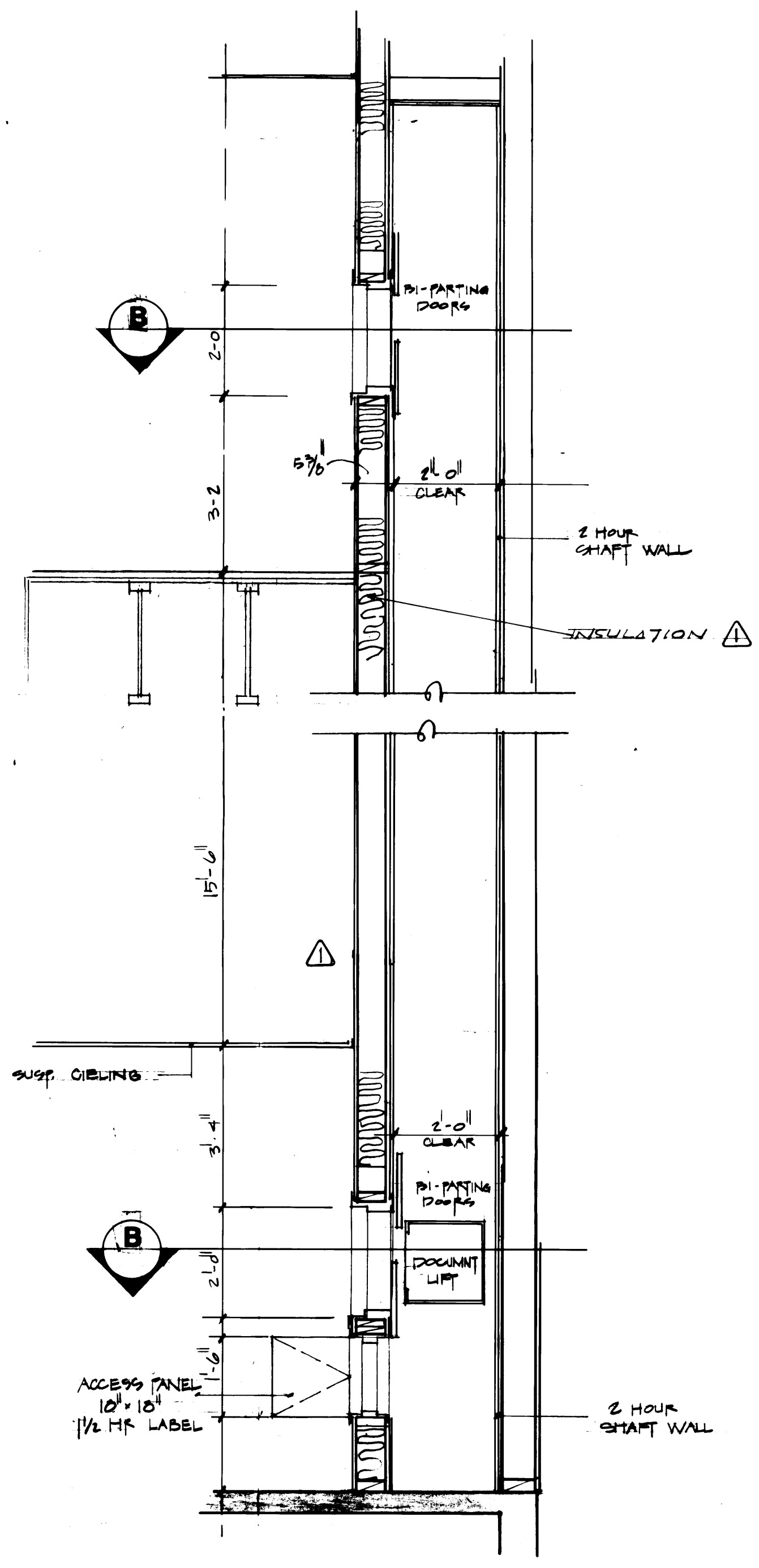
**REFLECTED CEILING PLAN, THIRD LEVEL**  
SCALE 1/8" = 1'-0"



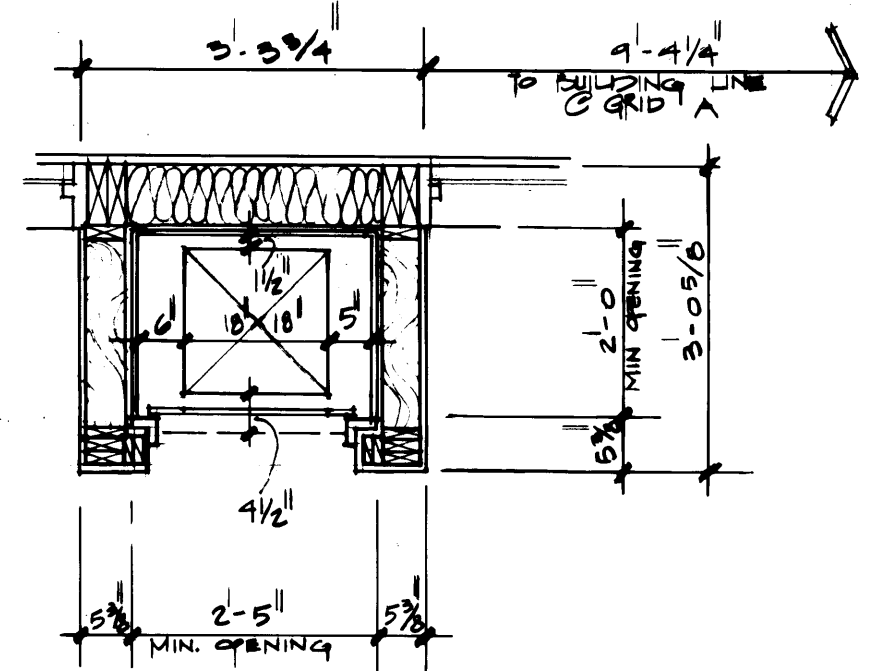
**1 ELEVATOR SHAFTWAY**  
SCALE 1/4" = 1'-0"



**A ELEVATOR PLAN** floors one, two and three  
SCALE 1/4" = 1'-0"



**2 FIRST FLOOR HOISTWAY**  
SCALE 1/2" = 1'-0"



**B TYPICAL HOISTWAY OPENING**  
SCALE 1/2" = 1'-0"

DRAWN: JWE, MCG DATE: 9-21-04		PORT OF TACOMA TACOMA TERMINALS, INC. <b>MARINE SERVICES BUILDING</b> THIRD LEVEL REFLECTED CEILING PLAN, & ELEVATOR PLAN & SECTION	
CHECKED:	DATE:		
CHECKED: 562	DATE:	FIELD BOOK (S)	
APPROVED: [Signature]		APPROVED: [Signature]	
PROJECT MANAGER: [Signature]		DATE: 9/23/04	
CHIEF ENGINEER: [Signature]		DATE: 4	
REVISION		BY	APP. DATE
MARK		REVISION	BY APP. DATE
1595 REGISTERED ARCHITECT JAMES R. MCGRAHANAN STATE OF WASHINGTON		2018 REGISTERED ARCHITECT LYN H. MESSENGER STATE OF WASHINGTON	
MCGRAHANAN, MESSENGER ASSOCIATES ARCHITECTURE / PLANNING / INTERIORS 190 FAWCETT, SUITE 300, TACOMA, WA 98402 • (253) 363-3084		ARCHITECTURE / PLANNING / INTERIORS	
REVISOR TO AS BUILT		R.J.J.	9/28/04
DRAWING NO. EP-3893-23		SHEET 4 OF 18	



**SCHEDULE OF MATERIALS**

FLOORS	WALLS
10 Concrete Hardener & Sealer	32 Gypsum Wallboard Painted
11 Concrete - Light Broom Finish	33 Gypsum Wallboard Epoxy
12 V.A.T.	34 Acoustic Panels
13 Carpet	35 Ceramic Tile
14 Concrete - Sealer	36 Fiberglass Reinforced Panel
15 Ceramic Tile	Over Gypsum Wallboard
	37 Gypsum Wallboard Vinyl
<b>BASE</b>	Wall Covering
20 4" Rubber Base	38 Wood Paneling
22 Ceramic Tile	39 Plywood Painted

**CEILING**

52 Structure Painted
53 Gypsum Wallboard Painted/Suspended
54 12x12 Acoustic Panels Over Gypsum Wallboard
55 24x48 Acoustic Panels Suspended
56 Exposed Structure
57 Ceramic Tile

**McGRANAHAN, MESSENGER ASSOCIATES**  
 ARCHITECTURE / PLANNING / INTERIORS  
 MEMBER AMERICAN INSTITUTE OF ARCHITECTS • 1901 FIFTH ST., SUITE 300, TACOMA, WA 98404 • (206) 343-3004

**PORT OF TACOMA**  
**TACOMA TERMINALS, INC.**  
**MARINE SERVICES BUILDING**  
 INTERIOR ELEVATIONS

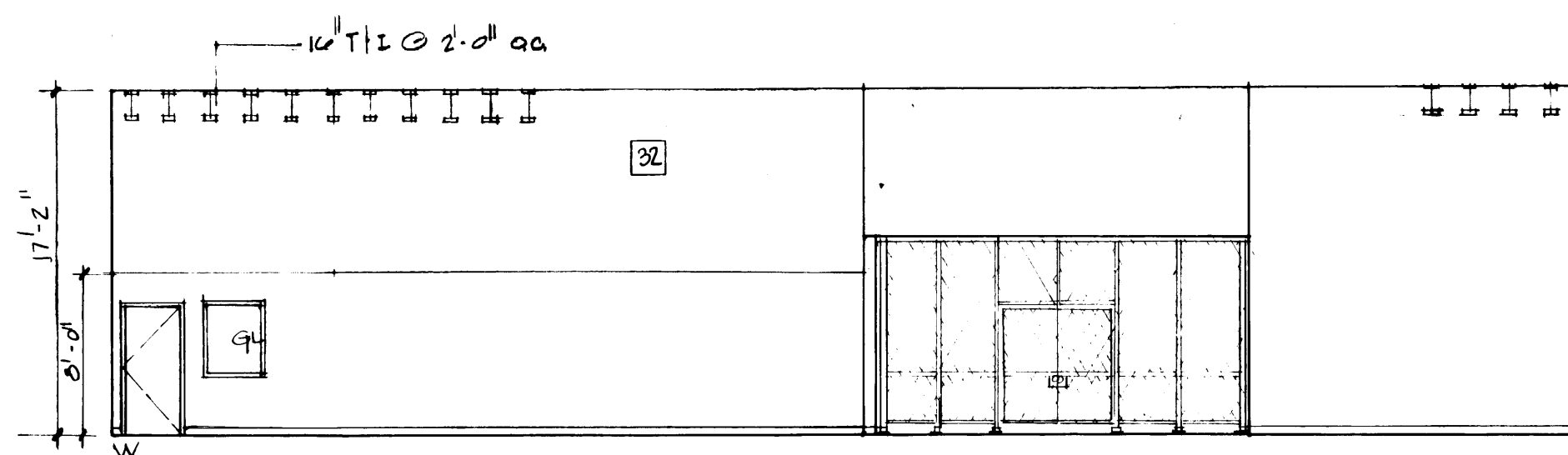
1595 REGISTERED ARCHITECT  
 JAMES E. McGRANAHAN  
 STATE OF WASHINGTON

2618 REGISTERED ARCHITECT  
 LYN M. MESSENGER  
 STATE OF WASHINGTON

DRAWN: MCG  
 DATE: 9/21/84  
 CHECKED: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 CONT. NO. 562

MARK	REVISION	BY	APP.	DATE
▲	REVISED TO AS BUILT	A.J.S.		8/27/88

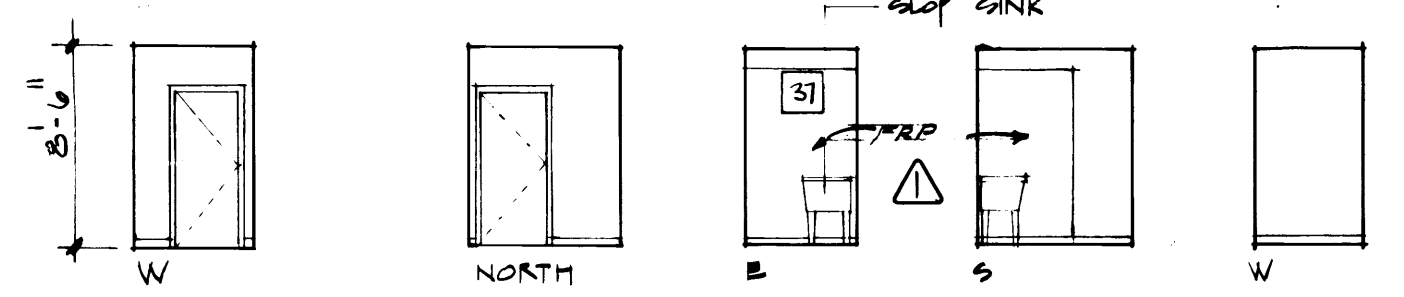
APPROVED	DATE	PROJECT MANAGER	DATE	DRAWING NO.
<i>[Signature]</i>	9/24/84	W.D. CLARKE	4	BP-3893-23 6-A11-11
				A11-11 13



**STOR. 122A** FLOOR BASE WALL CEILING  
FINISH SCHEDULE 10 20 34 53

**OFFICE 123** FLOOR BASE WALL CEILING  
FINISH SCHEDULE 12 20 32 55

**CORRIDOR 100** FLOOR BASE WALL CEILING  
FINISH SCHEDULE 12 20 30 55



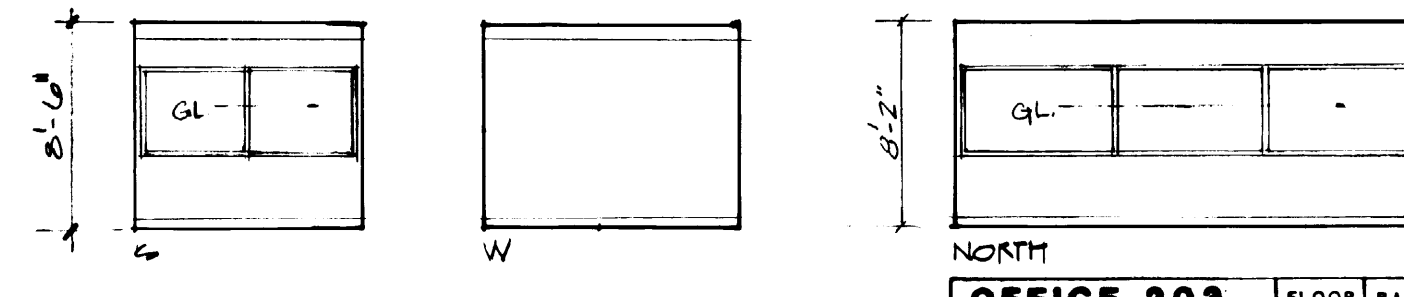
**JAN CLOS 106A** FLOOR BASE WALL CEILING  
FINISH SCHEDULE 15 22 32 53

**ELEC. 112A** FLOOR BASE WALL CEILING  
FINISH SCHEDULE 14 20 32 53

**OFFICE 110** FLOOR BASE WALL CEILING  
FINISH SCHEDULE 12 20 32 55

**OFFICE 201** FLOOR BASE WALL CEILING  
FINISH SCHEDULE 13 20 32 55

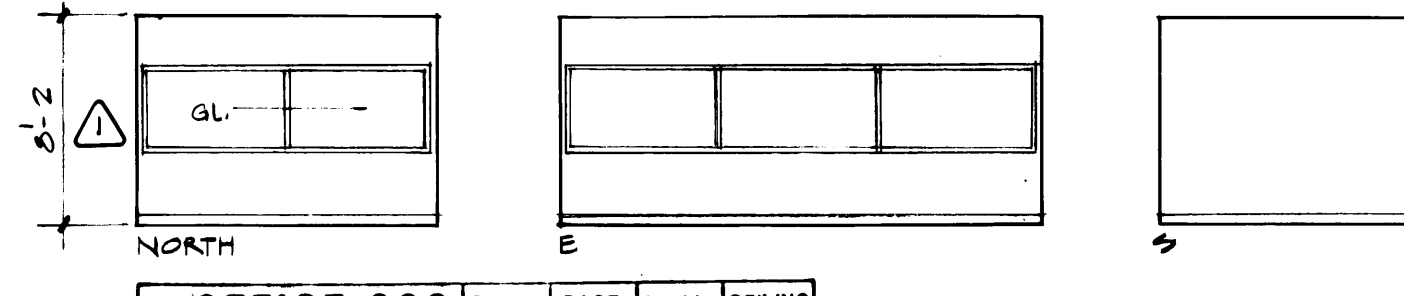
**OFFICE 202** FLOOR BASE WALL CEILING  
FINISH SCHEDULE 13 20 32 55



**OFFICE 203** FLOOR BASE WALL CEILING  
FINISH SCHEDULE 13 20 32 55

**OFFICE 204** FLOOR BASE WALL CEILING  
FINISH SCHEDULE 13 20 32 55

**OFFICE 205** FLOOR BASE WALL CEILING  
FINISH SCHEDULE 13 20 32 55

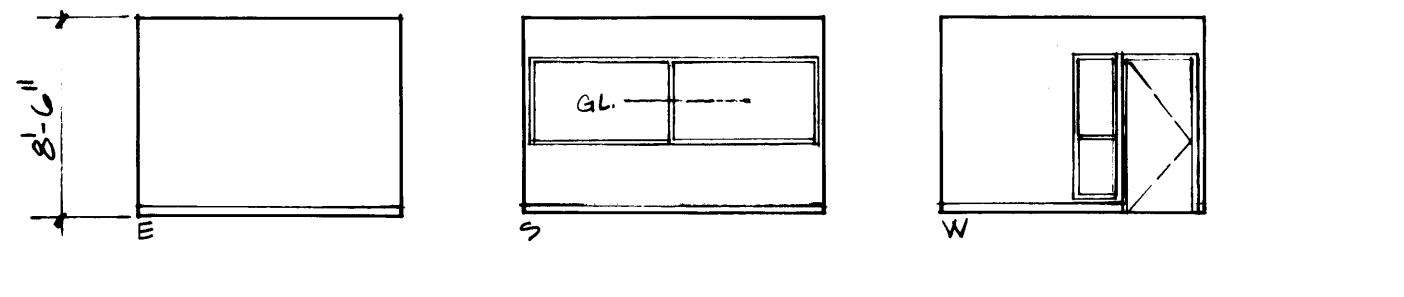


**OFFICE 206** FLOOR BASE WALL CEILING  
FINISH SCHEDULE 13 20 32 55

**OFFICE 207** FLOOR BASE WALL CEILING  
FINISH SCHEDULE 13 20 32 55

**OFFICE 208** FLOOR BASE WALL CEILING  
FINISH SCHEDULE 13 20 32 55

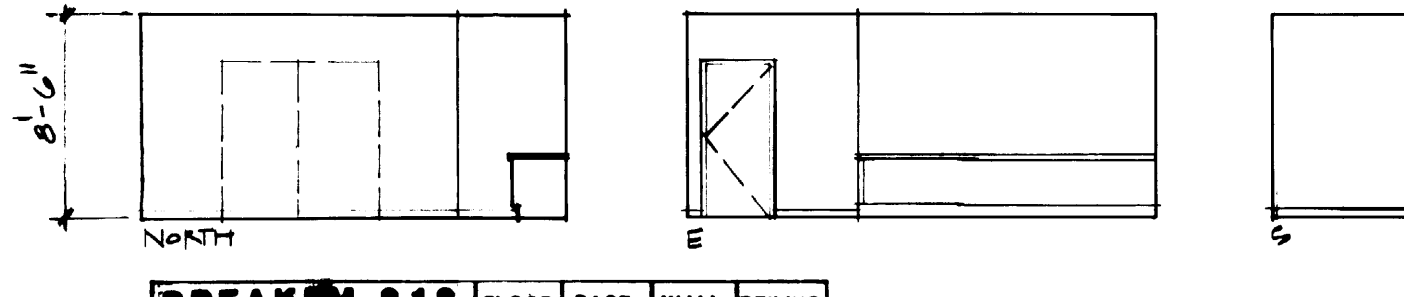
**OFFICE 209** FLOOR BASE WALL CEILING  
FINISH SCHEDULE 13 20 32 55



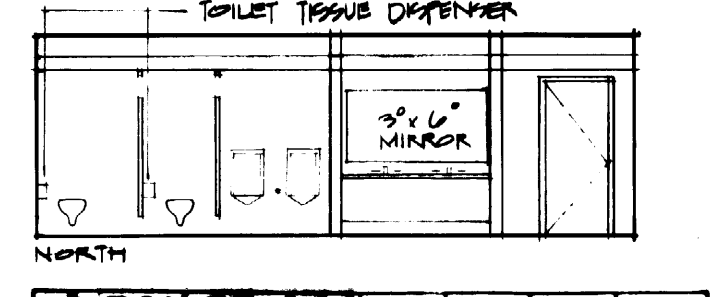
**OFFICE 210** FLOOR BASE WALL CEILING  
FINISH SCHEDULE 13 20 32 55

**TELEX 211** FLOOR BASE WALL CEILING  
FINISH SCHEDULE 13 20 32 55

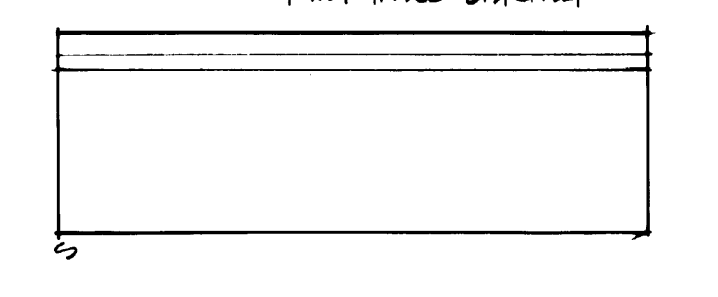
**RADIO 212** FLOOR BASE WALL CEILING  
FINISH SCHEDULE 13 20 32 55



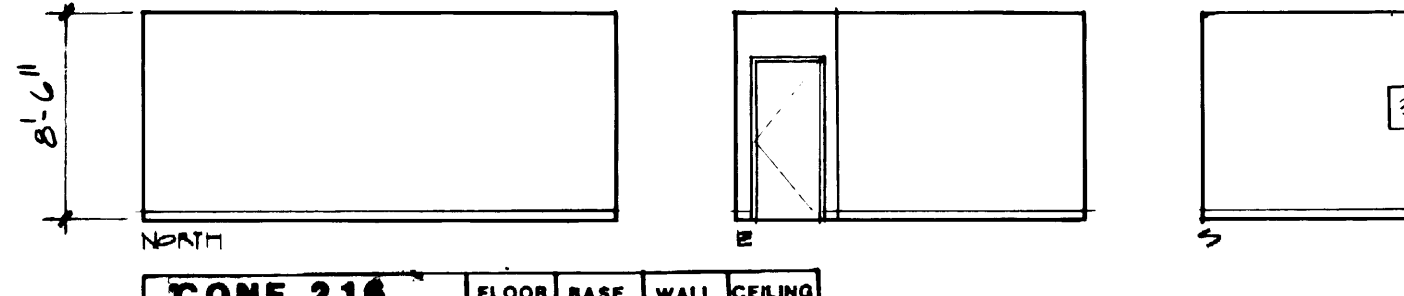
**BREAKRM 213** FLOOR BASE WALL CEILING  
FINISH SCHEDULE 12 20 37 55



**TOILET 214** FLOOR BASE WALL CEILING  
FINISH SCHEDULE 15 22 35 54



**W TOILET 215** FLOOR BASE WALL CEILING  
FINISH SCHEDULE 15 22 35 54

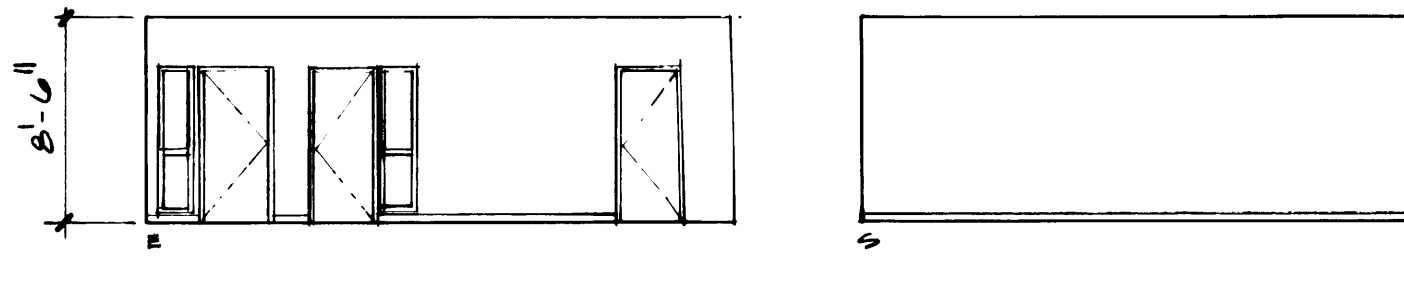


**CONF 216** FLOOR BASE WALL CEILING  
FINISH SCHEDULE 13 20 32 55

**PAYMSTR 217** FLOOR BASE WALL CEILING  
FINISH SCHEDULE 13 20 32 55

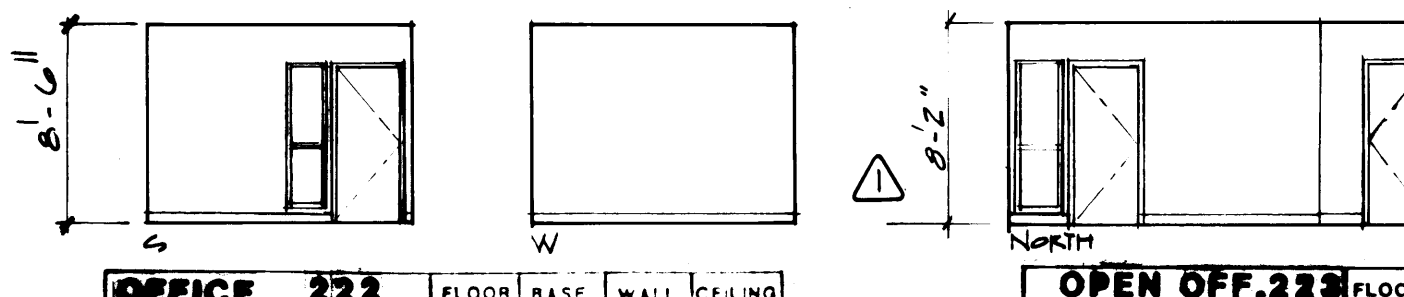
**DRAGE 218** FLOOR BASE WALL CEILING  
FINISH SCHEDULE 12 20 32 53

**OPEN OFF. 219** FLOOR BASE WALL CEILING  
FINISH SCHEDULE 13 20 32 55



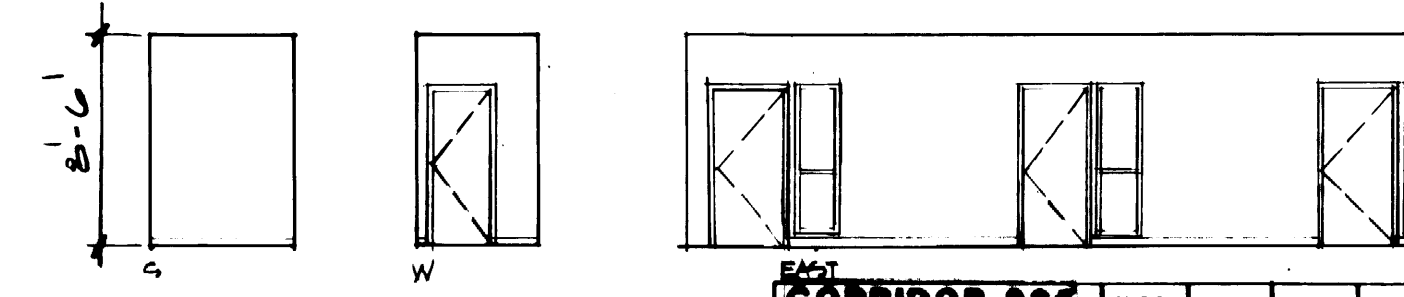
**WORKROOM 220** FLOOR BASE WALL CEILING  
FINISH SCHEDULE 13 20 33 55

**CHART RM 221** FLOOR BASE WALL CEILING  
FINISH SCHEDULE 13 20 32 55



**OFFICE 222** FLOOR BASE WALL CEILING  
FINISH SCHEDULE 13 20 32 55

**OPEN OFF. 223** FLOOR BASE WALL CEILING  
FINISH SCHEDULE 13 20 37 55



**CORRIDOR 224** FLOOR BASE WALL CEILING  
FINISH SCHEDULE 13 20 37 55

**CORRIDOR 225** FLOOR BASE WALL CEILING  
FINISH SCHEDULE 13 20 37 55

**WAITING 226** FLOOR BASE WALL CEILING  
FINISH SCHEDULE 13 20 37 55

**JAN CLOS 224** FLOOR BASE WALL CEILING  
FINISH SCHEDULE 15 22 33 53

**McGRANAHAN, MESSENGER ASSOCIATES**  
ARCHITECTURE / PLANNING / INTERIORS  
1595 1<sup>ST</sup> AVENUE, SUITE 300, TACOMA, WA 98402 • (206) 383-3084

DRAWN: DJM, MCG  
DATE: \_\_\_\_\_  
CHECKED: \_\_\_\_\_  
DATE: \_\_\_\_\_  
CHECKED: \_\_\_\_\_  
DATE: \_\_\_\_\_  
CONT. NO.: 302

**PORT OF TACOMA**  
TACOMA TERMINALS, INC.  
**MARINE SERVICES BUILDING**  
INTERIOR ELEVATIONS

APPROVED: *[Signature]* 9/24/84  
PROJECT MANAGER: *[Signature]*  
DATE: 9/24/84  
DATE: \_\_\_\_\_  
DATE: \_\_\_\_\_

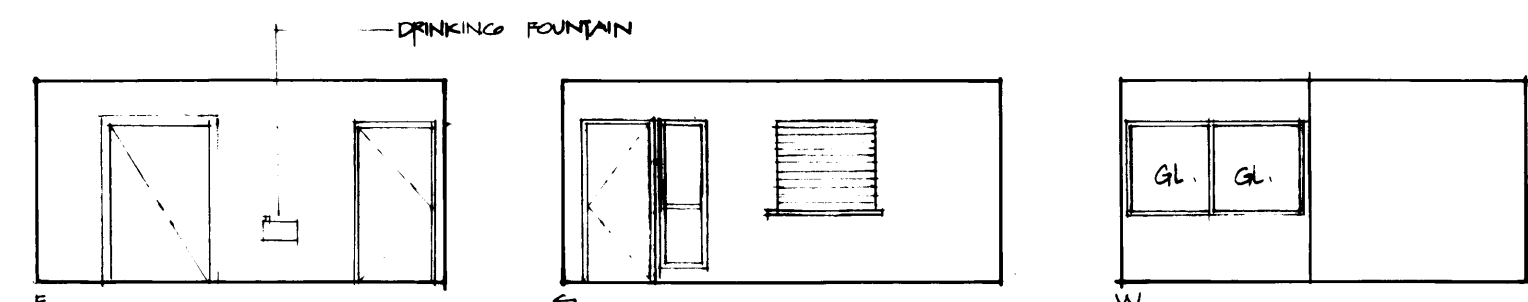
FIELD BOOK (S): \_\_\_\_\_  
SCALE: \_\_\_\_\_  
DRAWING NO.: EP-3893-23  
6-A11-12  
A11-12 OF 13

1595 REGISTERED ARCHITECT  
*[Signature]*  
JAMES W. McGRANAHAN  
STATE OF WASHINGTON

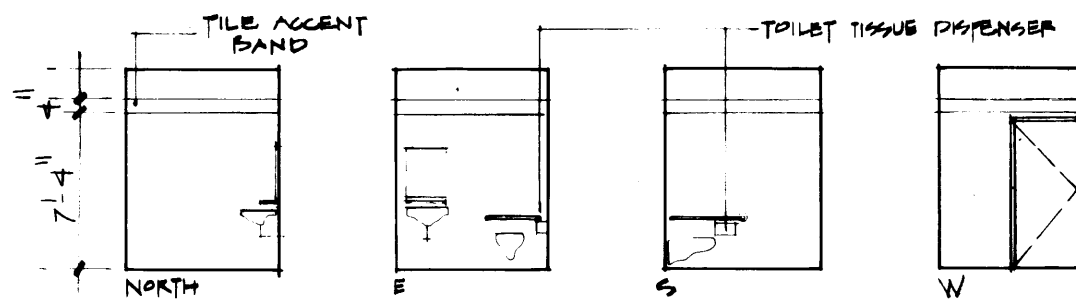
2618 REGISTERED ARCHITECT  
*[Signature]*  
LYN H. MESSENGER  
STATE OF WASHINGTON

MARK	REVISION	BY	APP.	DATE
Δ	REVISED TO AS BUILT	A.J.S.		8-29-85

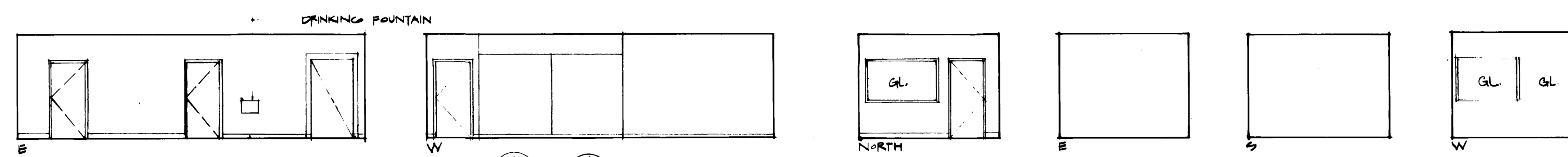




200 COMT.	FLOOR	BASE	WALL	CEILING
FINISH SCHEDULE	13	20	37	55

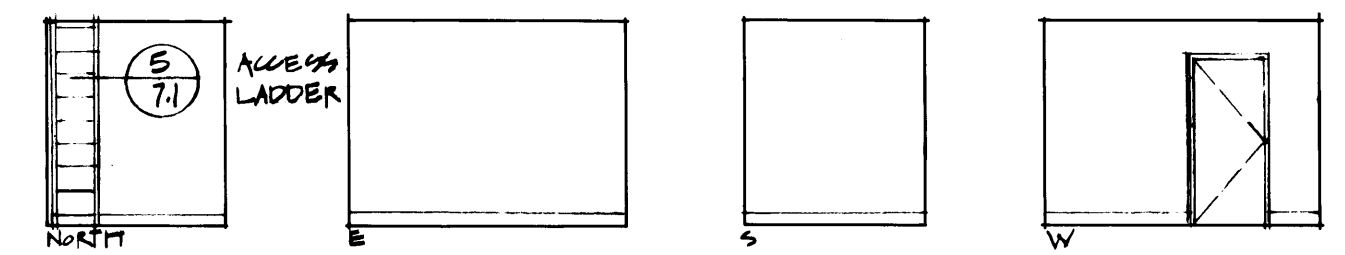


TOILET 303	FLOOR	BASE	WALL	CEILING
FINISH SCHEDULE	15	22	35	54



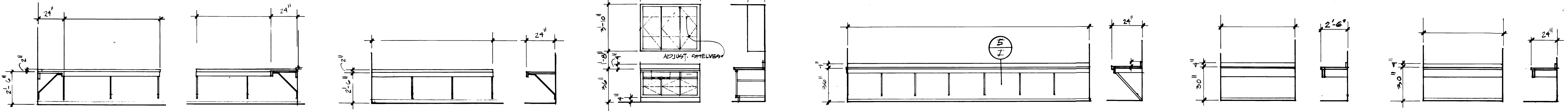
OFFICE 305	FLOOR	BASE	WALL	CEILING
FINISH SCHEDULE	13	20	37	55

OFFICE 305	FLOOR	BASE	WALL	CEILING
FINISH SCHEDULE	13	20	37	55



STORAGE 302	FLOOR	BASE	WALL	CEILING
FINISH SCHEDULE	12	20	32	53

SCHEDULE OF MATERIALS		
FLOORS	WALLS	CEILING
10 Concrete Hardener & Sealer	32 Gypsum Wallboard Painted	52 Structure Painted
11 Concrete - Light Broom Finish	33 Gypsum Wallboard Epoxy	53 Gypsum Wallboard
12 V.A.T.	34 Acoustic Panels	54 12x12 Acoustic Panels
13 Carpet	35 Ceramic Tile	55 24x48 Acoustic Panels
14 Concrete - Sealer	36 Fiberglass Reinforced Panel	Over Gypsum Wallboard
15 Ceramic Tile	37 Gypsum Wallboard	56 Exposed Structure
	38 Gypsum Wallboard Vinyl	57 Ceramic Tile
	39 Plywood Painted	
	40 4" Rubber Base	
	41 Ceramic Tile	



OFFICE COUNTER RM 101

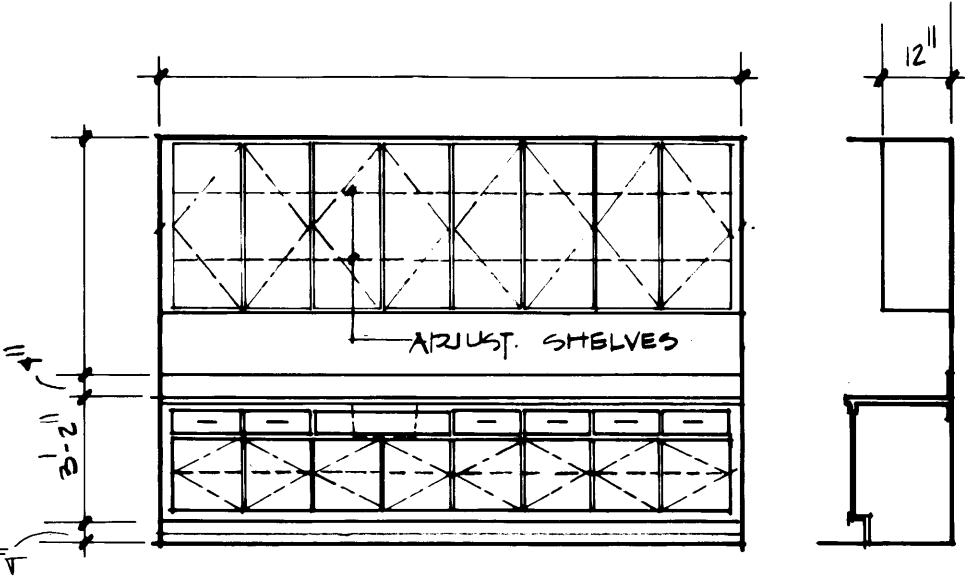
OFFICE COUNTER RM 102

BREAKRM 119 CABINET

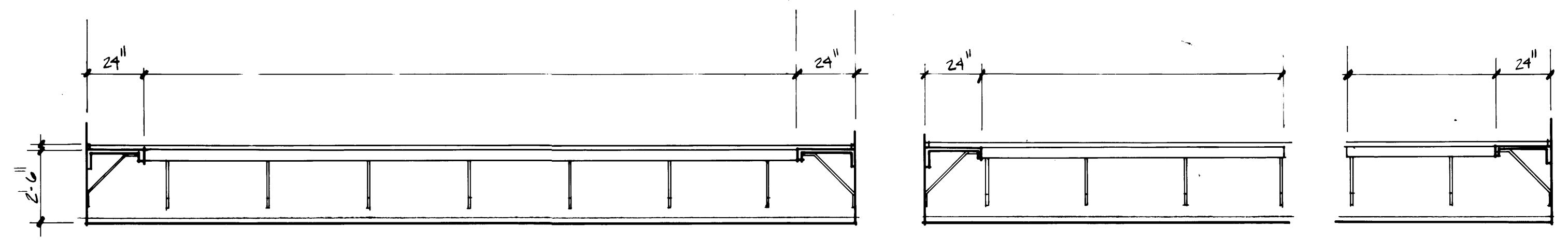
ELEC SHOP COUNTER RM 120

RESTROOM 214 COUNTER

RESTROOM 215 COUNTER

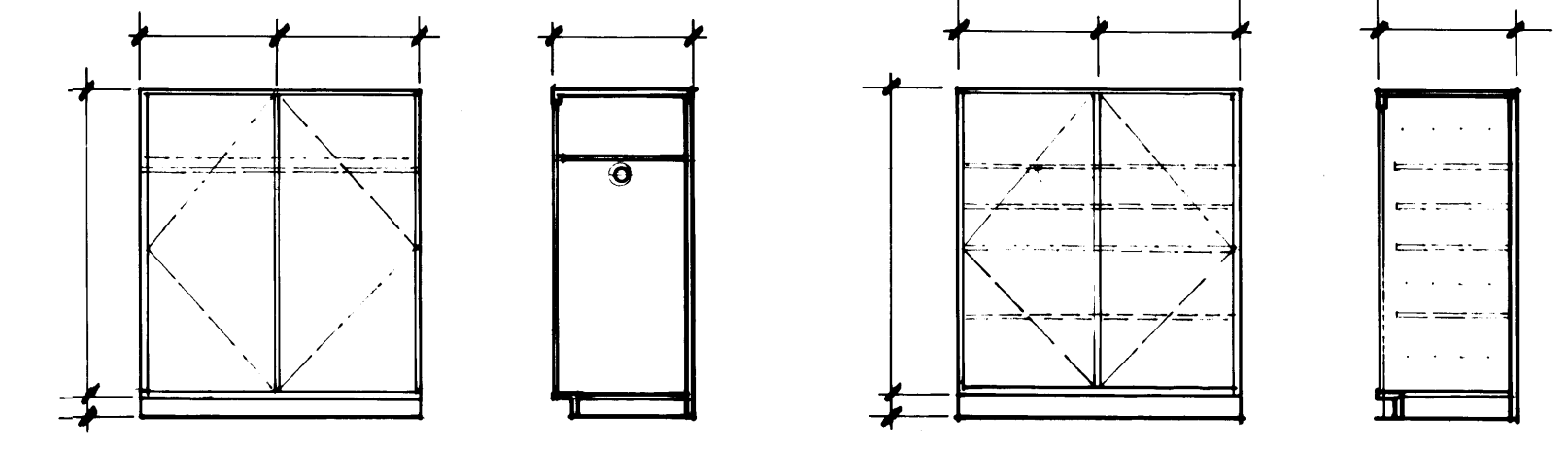


BREAKRM 213 CABINET



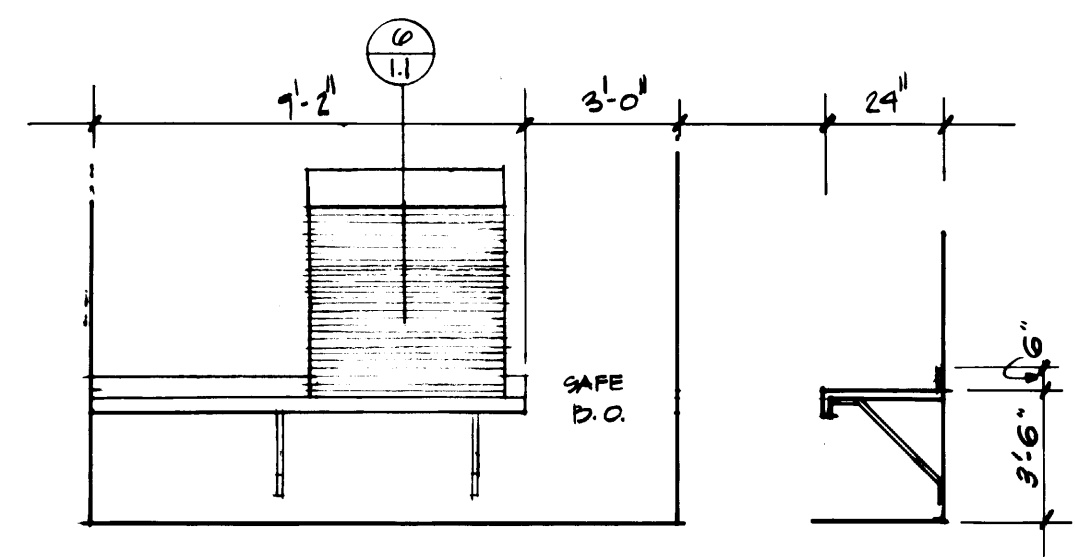
OFFICE 301 COUNTER

COUNTERS IN ROOMS 101, 102, 119, 214, 215, 218, 301, 307 & 117 SHALL BE PLASTIC LAM.

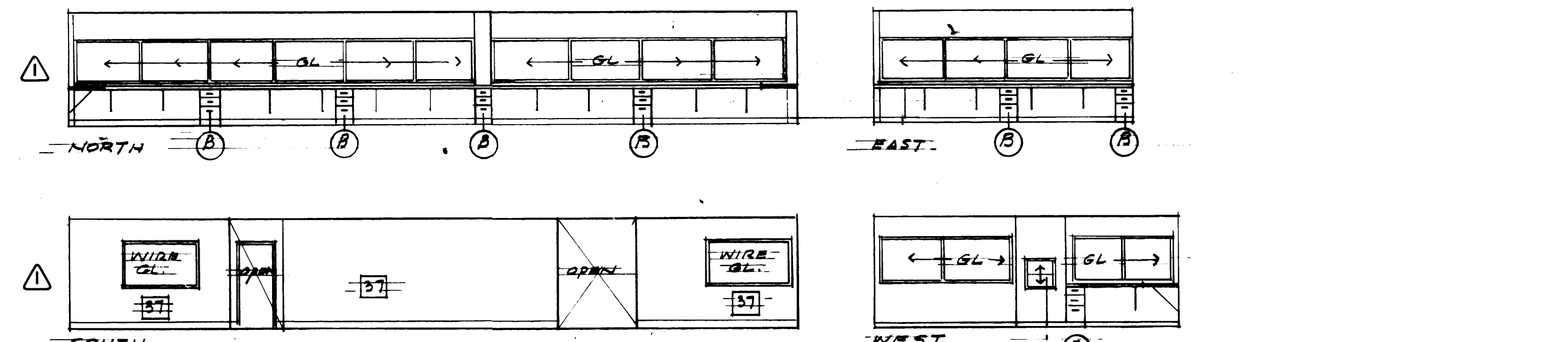


STORAGE CABINET A

STORAGE CABINET B



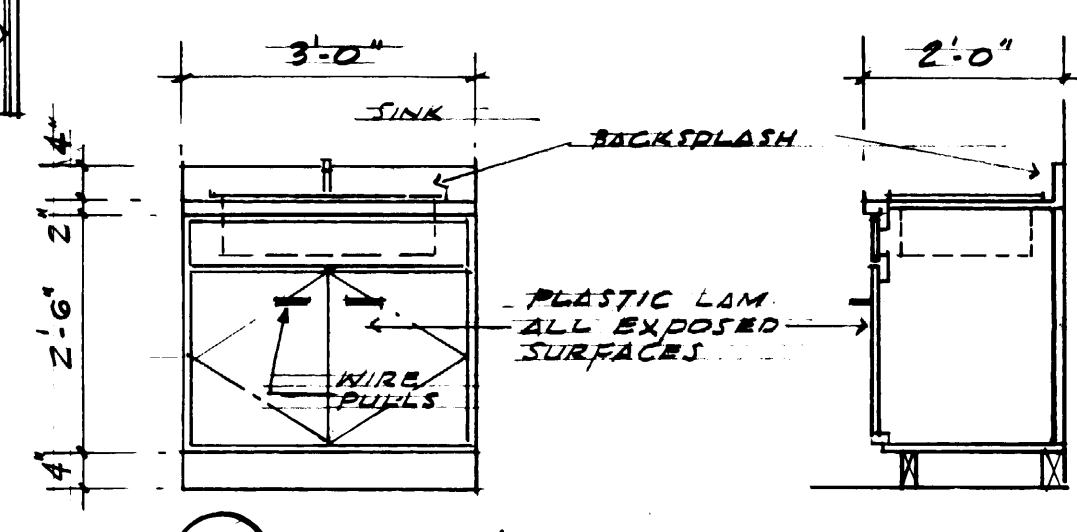
RAYMASTER RM 117 COUNTER



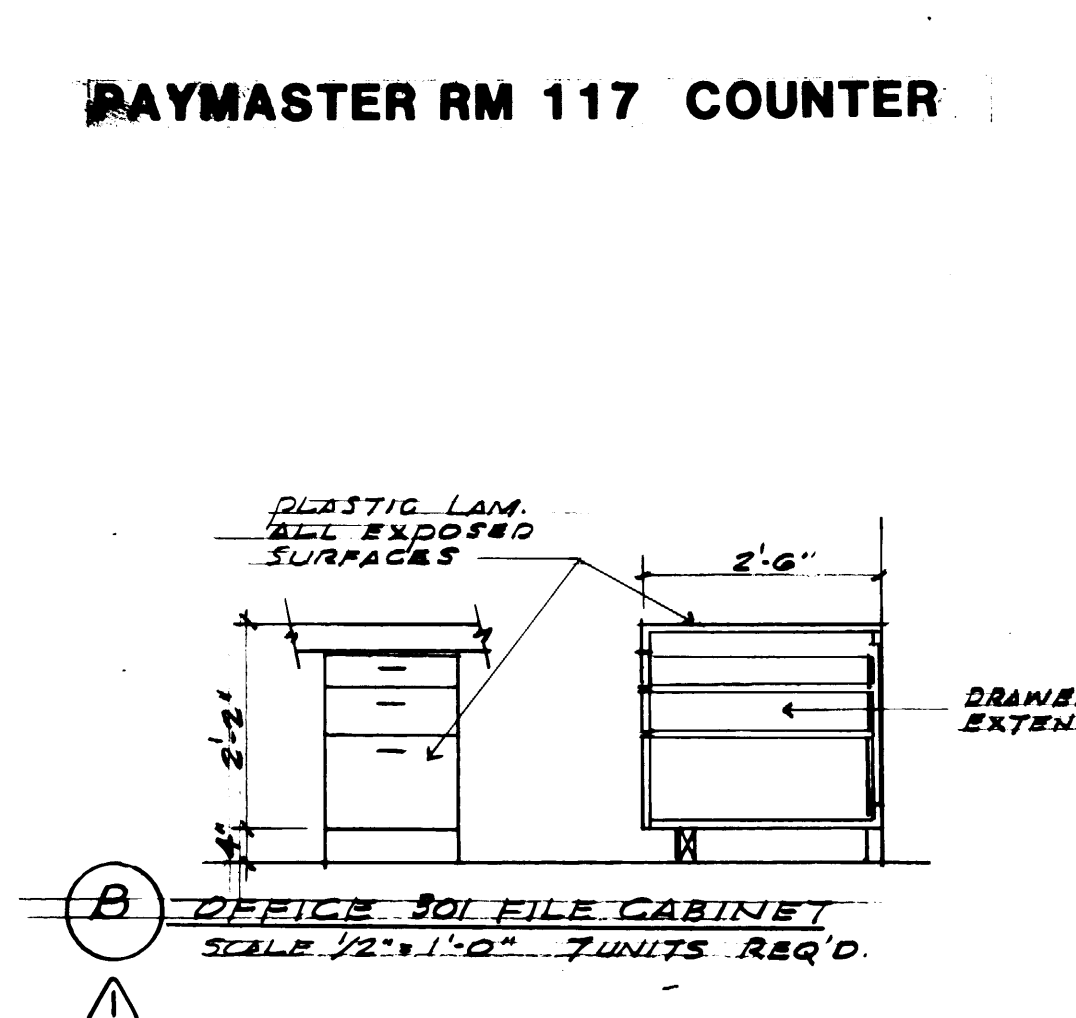
OFFICE 301	FLOOR	BASE	WALL	CEILING
FINISH SCHEDULE	13	20	37	55

OFFICE 306 A	FLOOR	BASE	WALL	CEILING
FINISH SCHEDULE	13	20	37	55

CONF 307	FLOOR	BASE	WALL	CEILING
FINISH SCHEDULE	13	20	37	55



CONFERENCE 307 CABINET



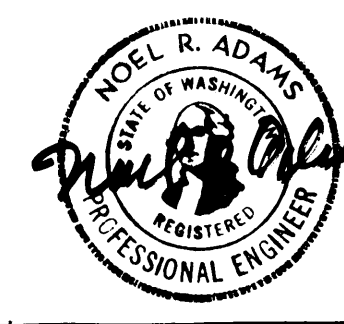
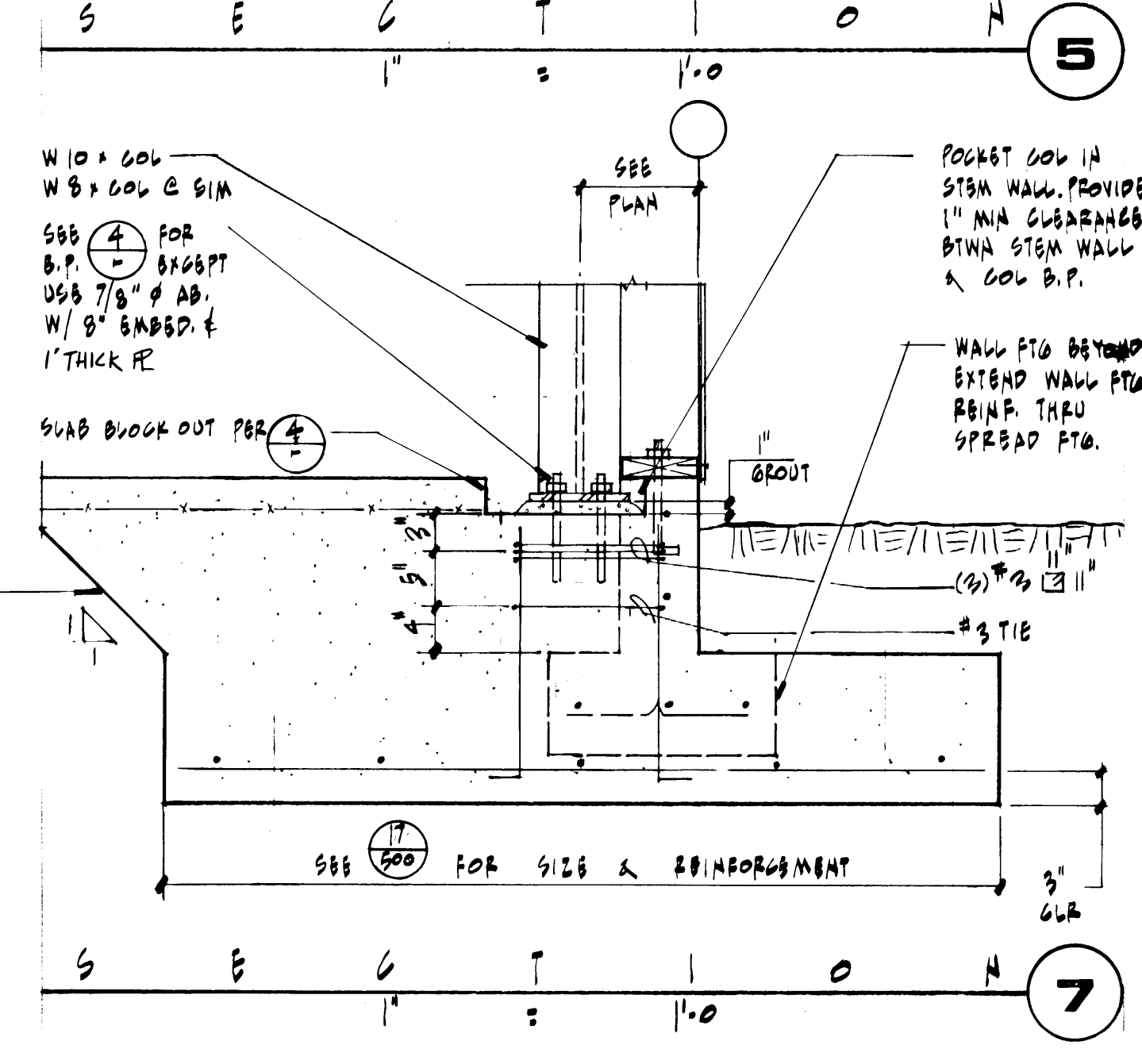
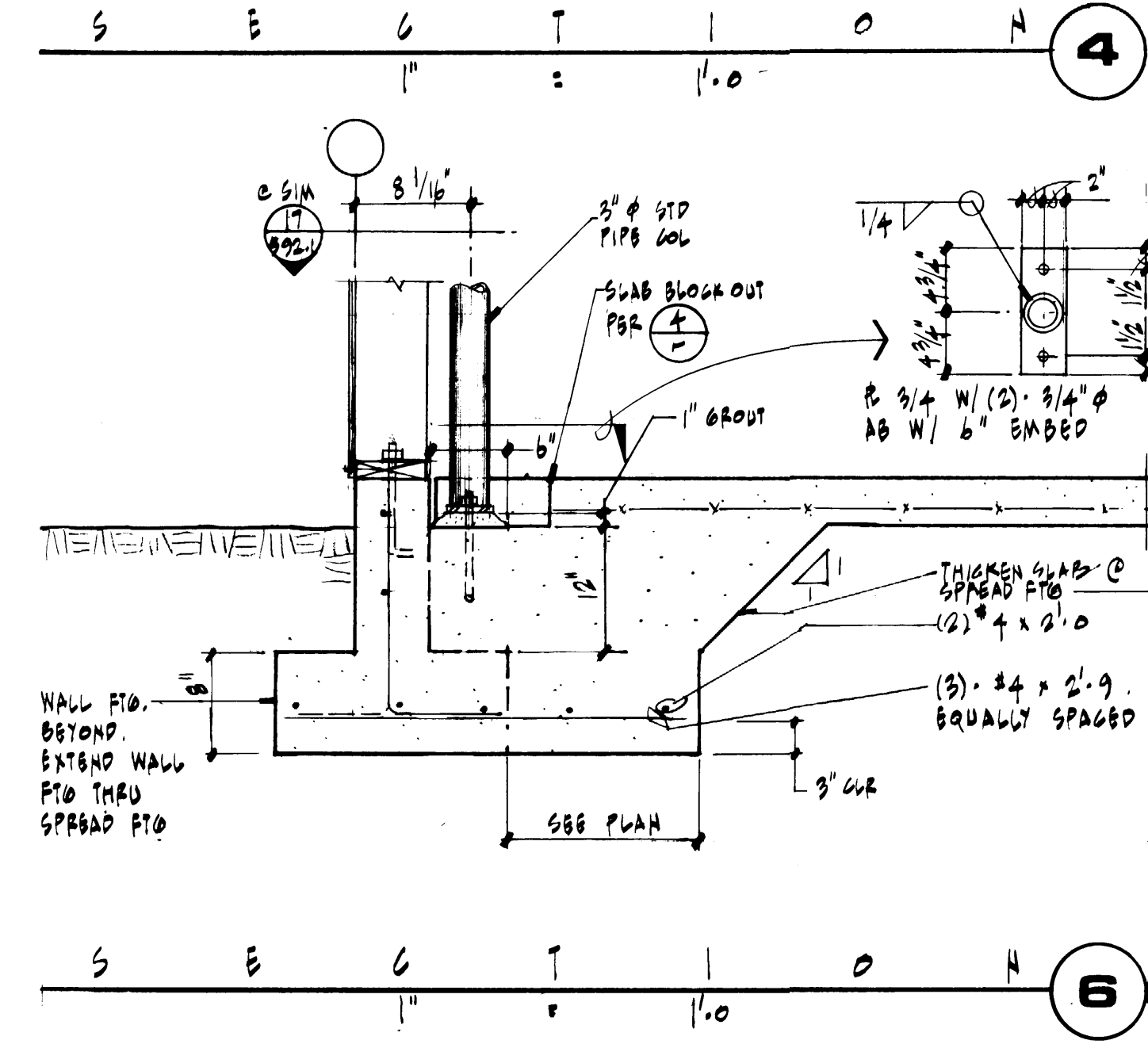
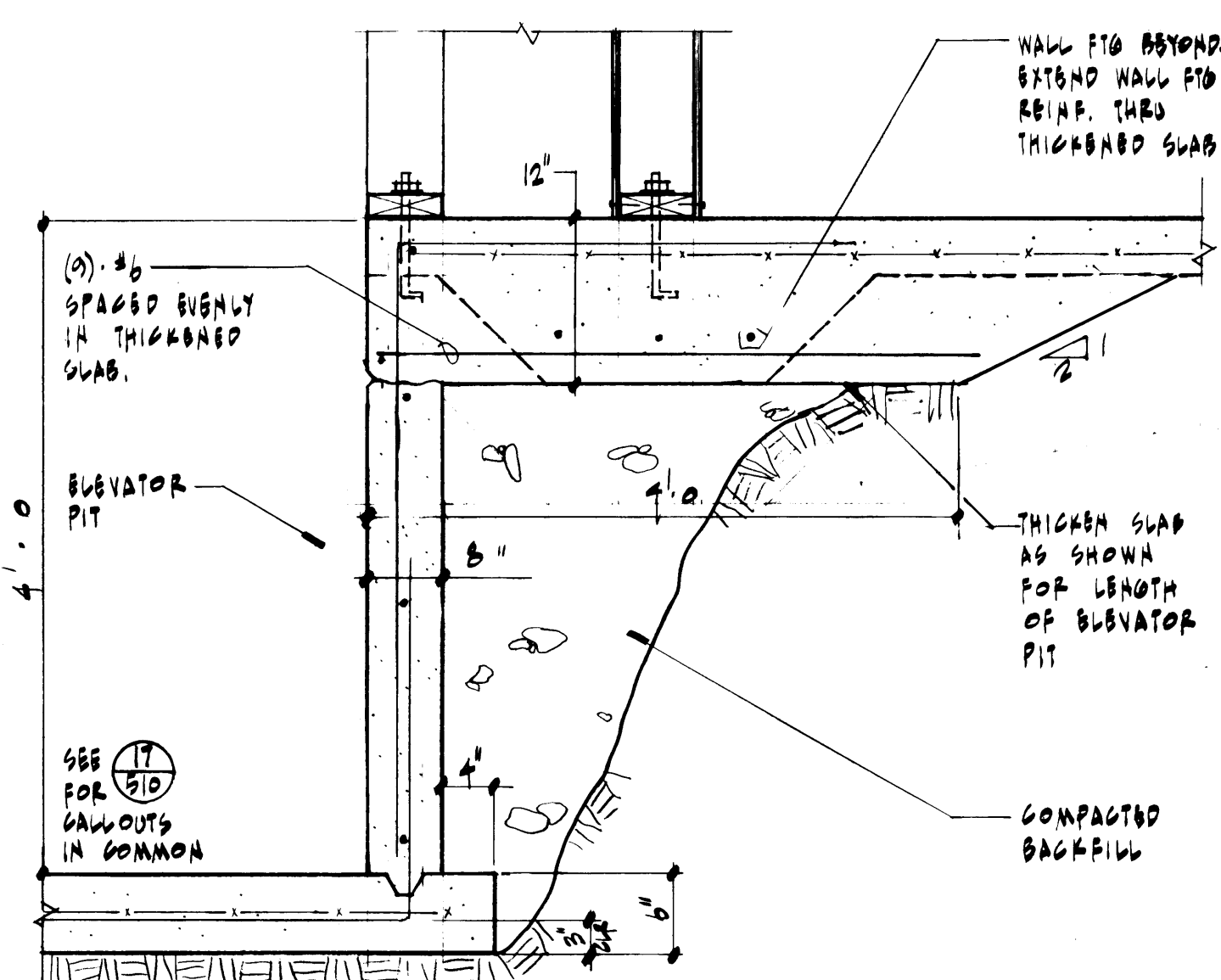
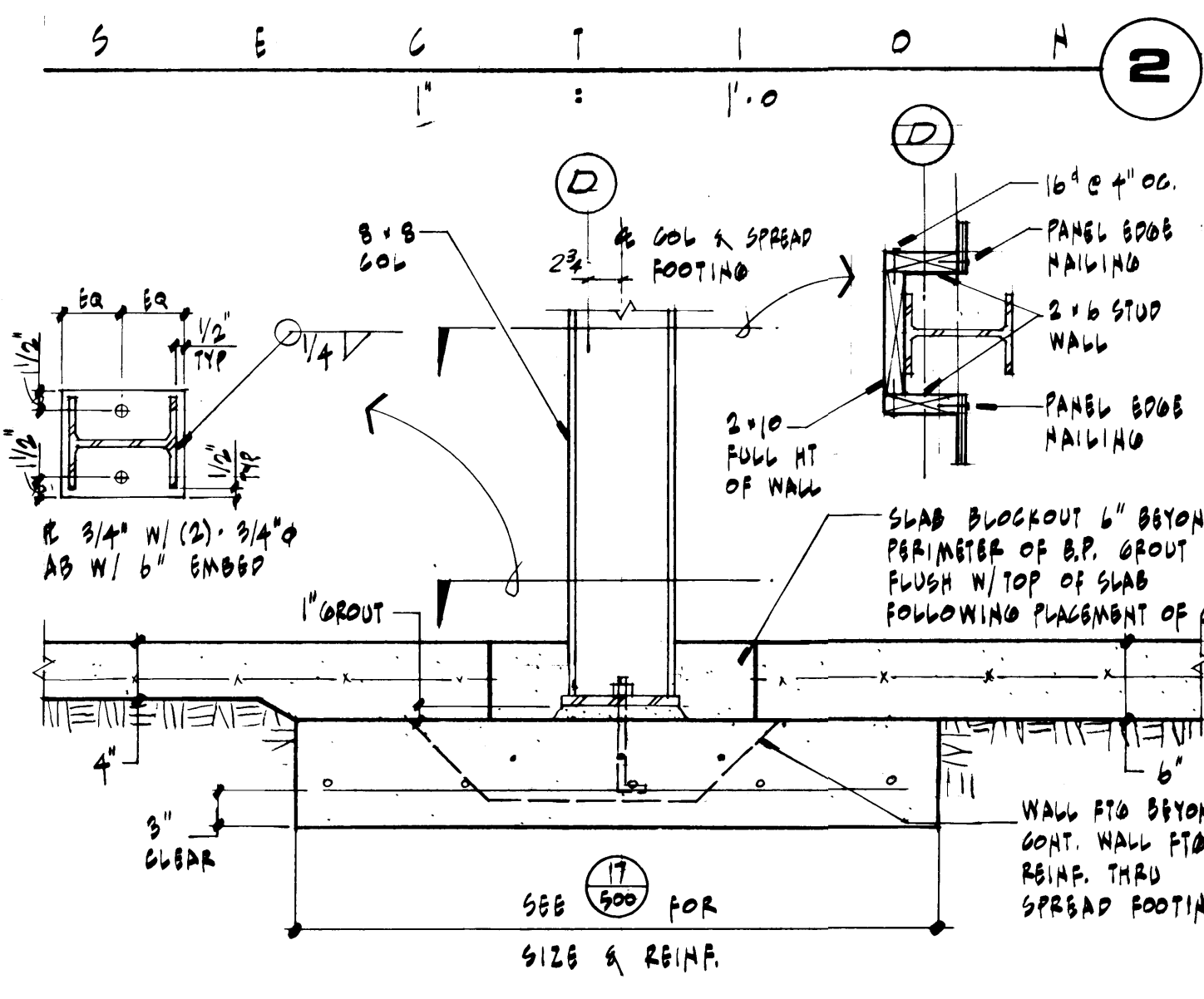
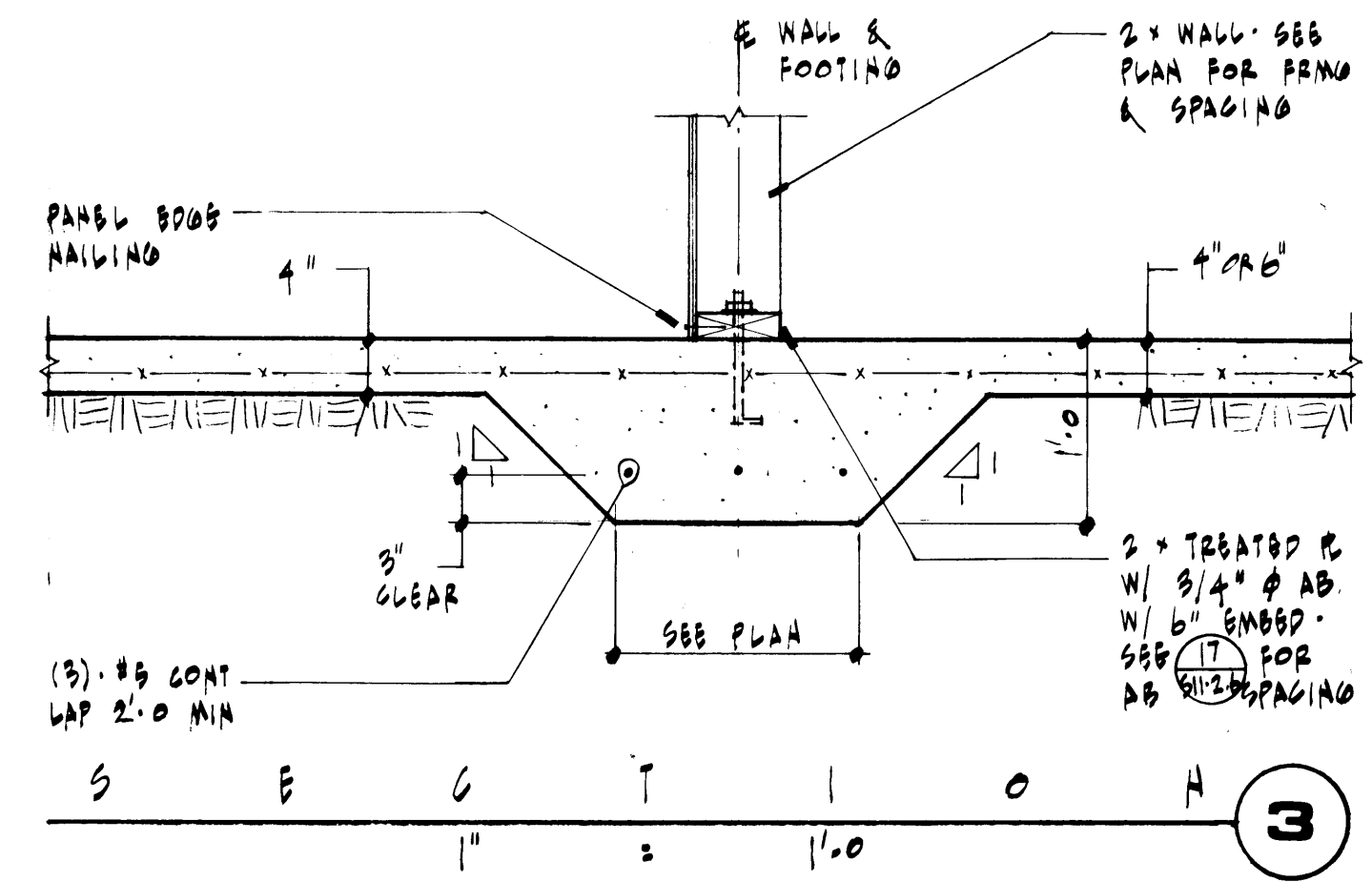
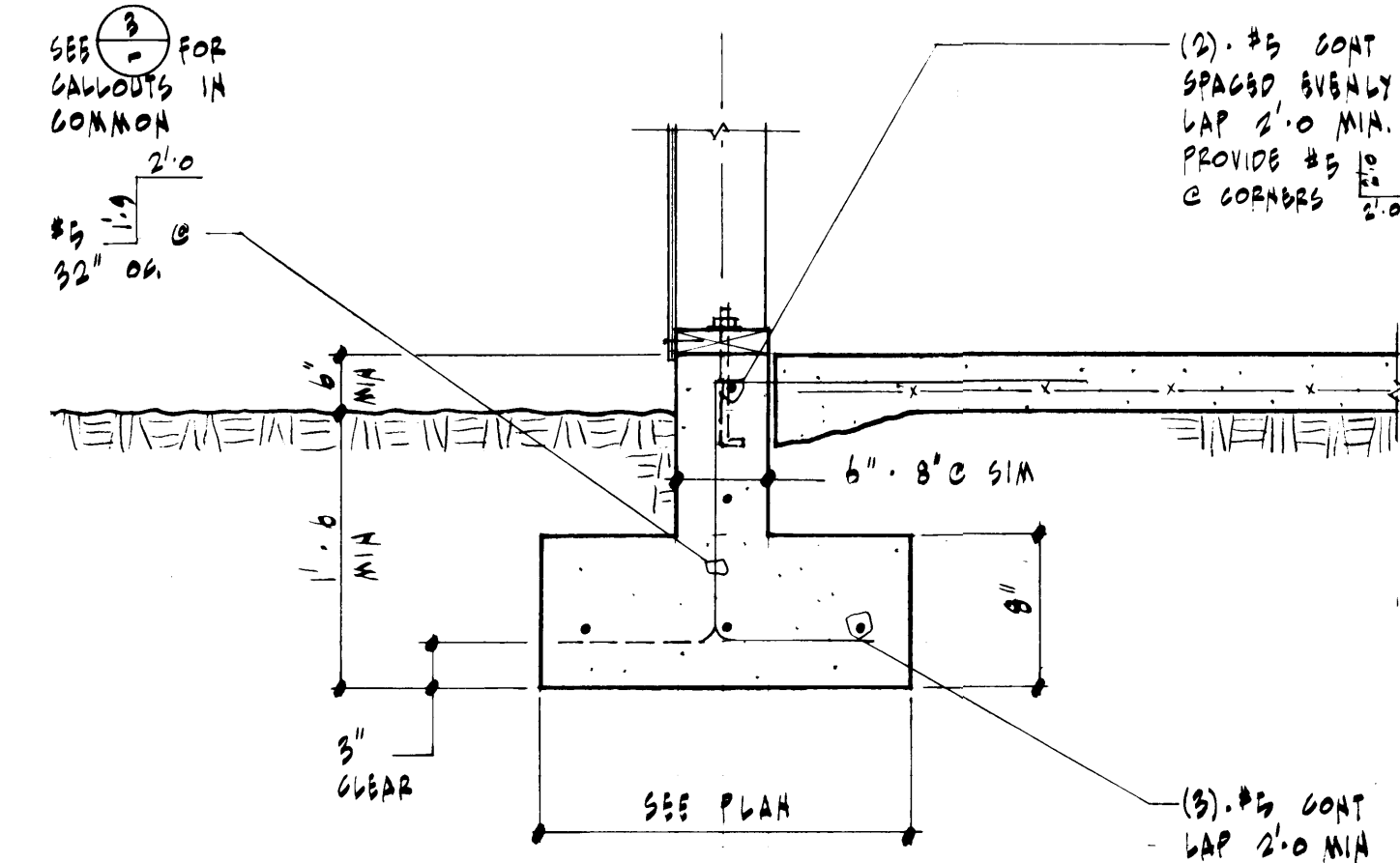
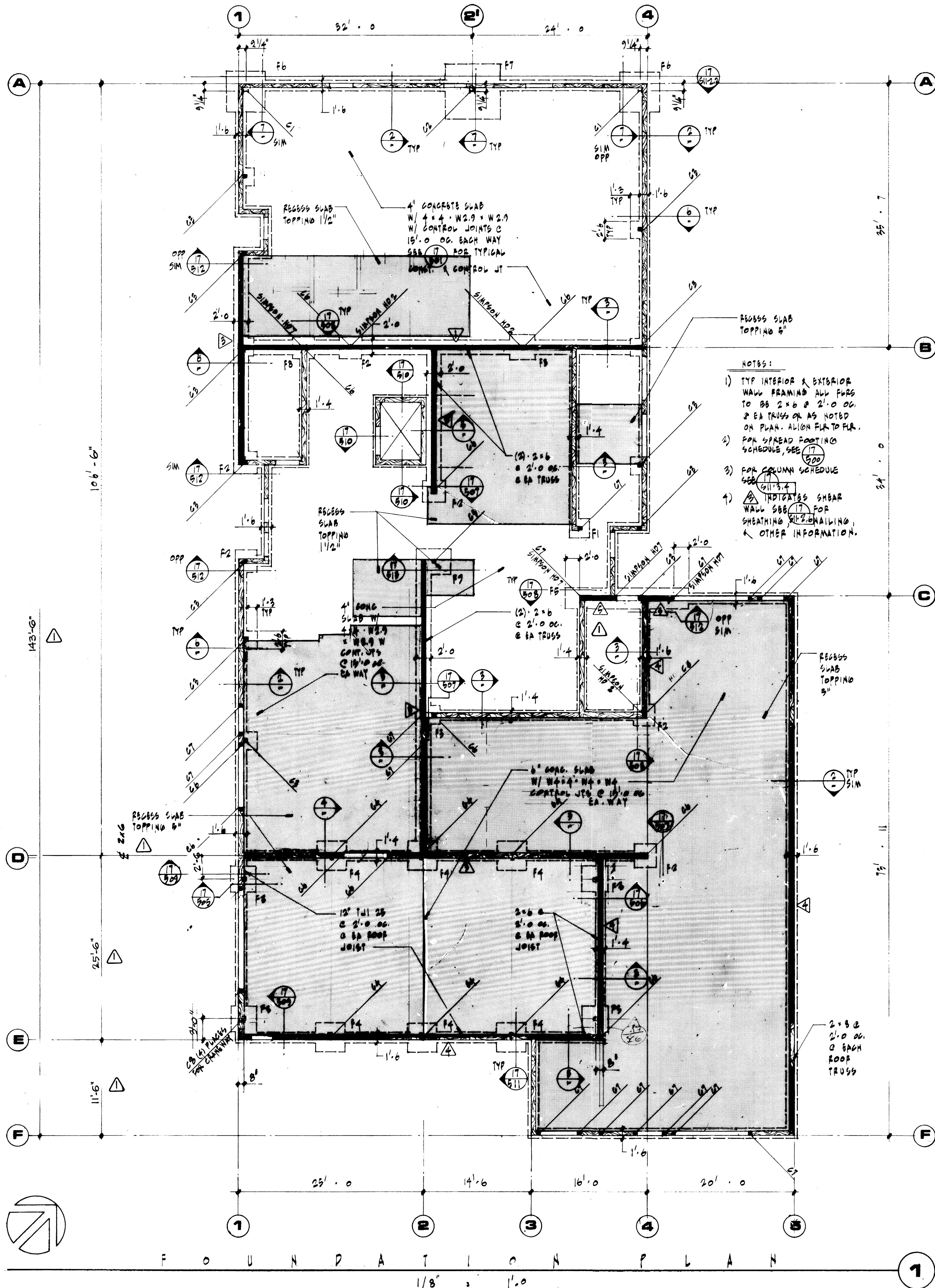
OFFICE 301 FILE CABINET

1595 REGISTERED ARCHITECT JAMES R. McGRANAHAN STATE OF WASHINGTON	2618 REGISTERED ARCHITECT LYN H. MESSENGER STATE OF WASHINGTON
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<b>McGRANAHAN, MESSENGER ASSOCIATES</b> ARCHITECTURE / PLANNING / INTERIORS 1901 PACIFIC BUILDING TACOMA, WA 98402 • (206) 383-3084	<b>PORT OF TACOMA</b> <b>TACOMA TERMINALS, INC.</b> <b>MARINE SERVICES BUILDING</b> INTERIOR ELEVATIONS & CABINET DETAILS	
	DRAWN: J.P. MCG DATE: 9-21-84 CHECKED: _____ CHECKED: _____ DATE: _____ CONT. NO. 562	APPROVED: _____ PROJECT MANAGER: _____ DATE: 1/24/84 CHIEF ENGINEER: _____ DATE: _____

REVISI TO AS BUILT





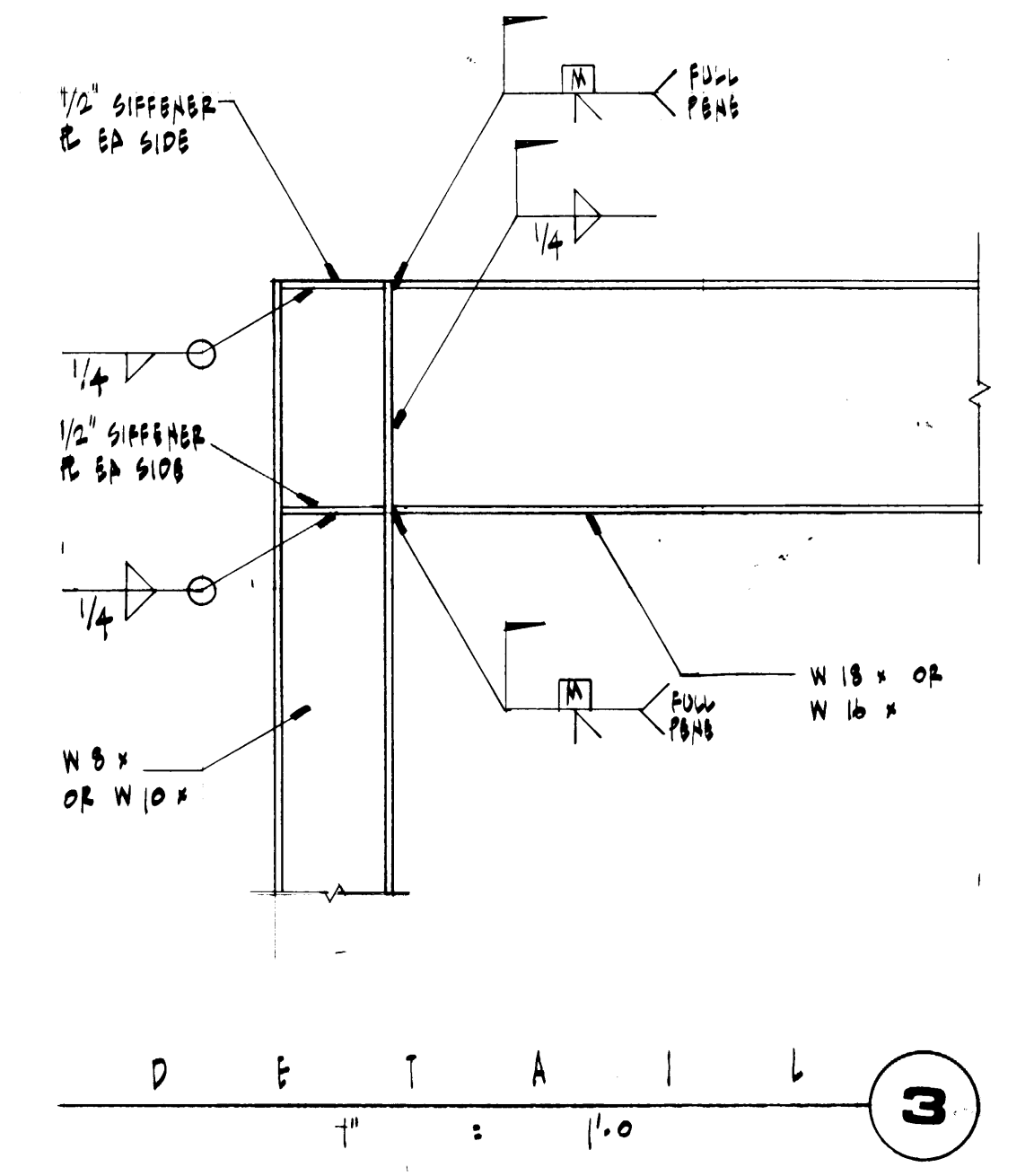
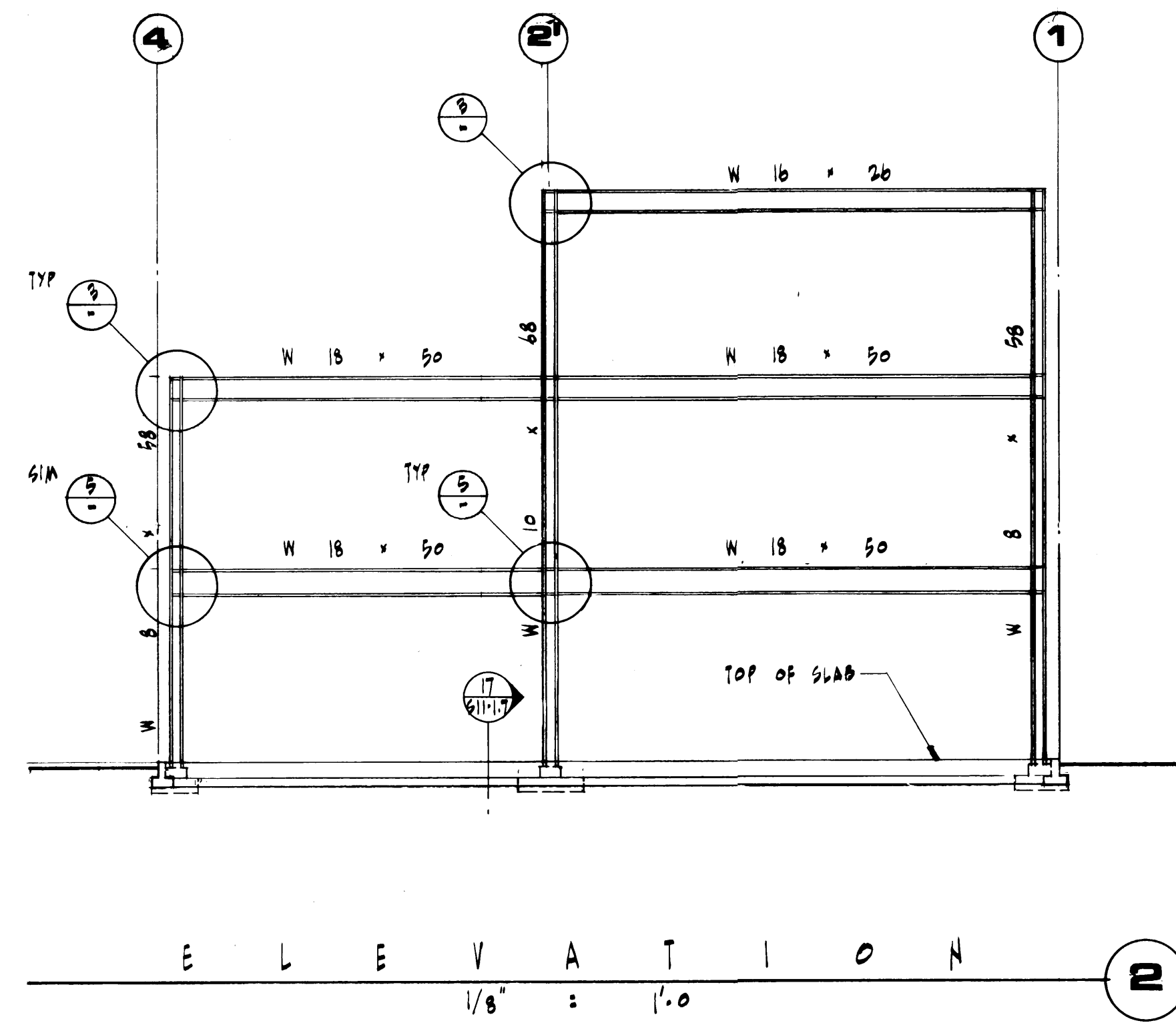
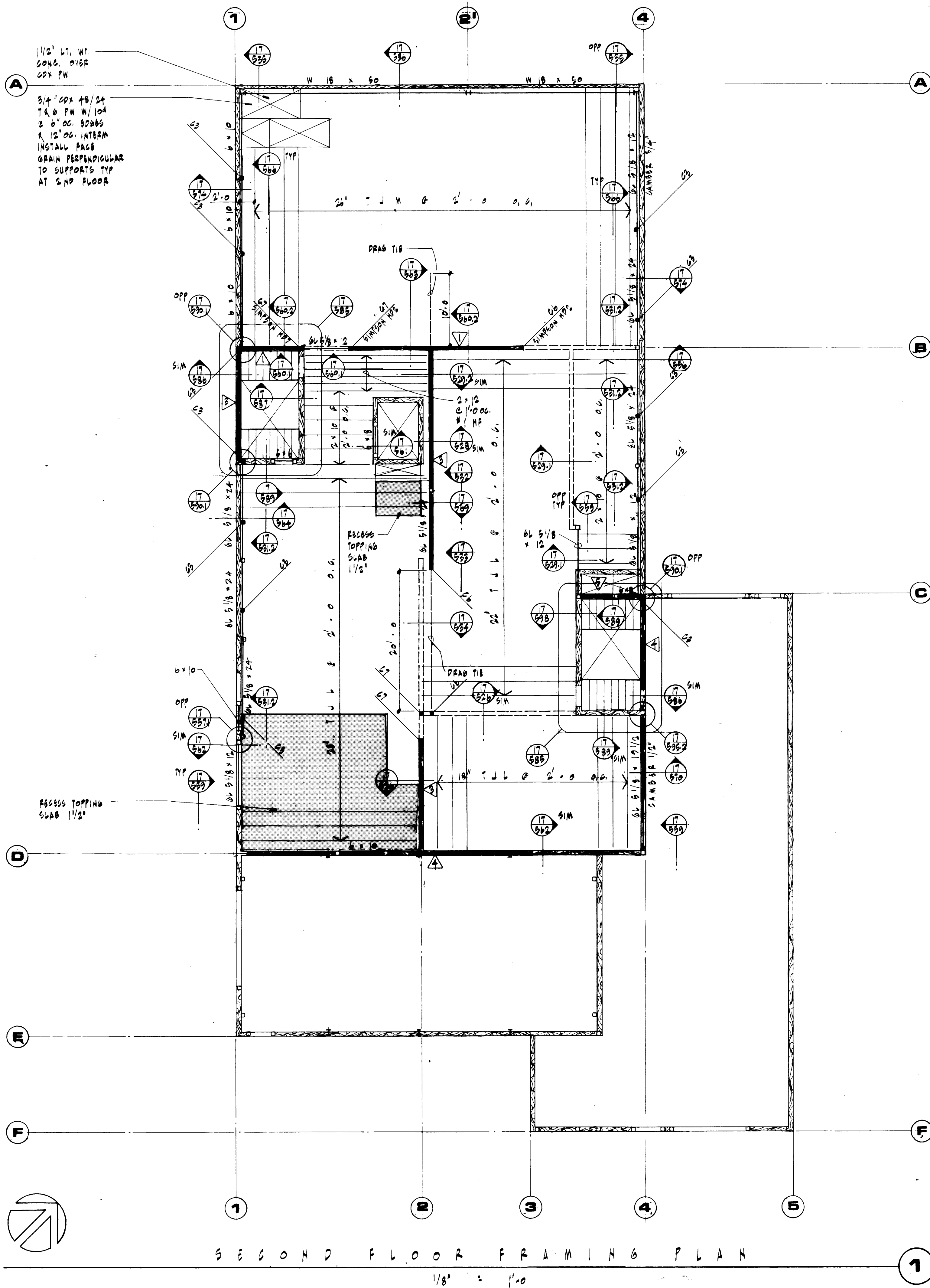
**Adams/Hodsdon & ASSOC.**  
 Adams, Hodsdon & Associates, Inc., Structural Engineers  
 5308 12th Street East • Tacoma, Washington 98424  
 (206) 922-1600, Seattle (206) 624-4138

<b>PORT OF TACOMA</b>		<b>TACOMA TERMINALS, INC.</b>	
<b>MARINE SERVICES BUILDING</b>			
<b>FOUNDATION PLAN &amp; DETAILS</b>			
DRAWN	DATE	9/24/84	
CHECKED	DATE		
CHECKED	DATE		
CHECKED	DATE		
CONT. NO.	582		
FIELD BOOK (S)			
APPROVED	<i>John Taylor</i>		
DATE	9/24/84		
PROJECT NUMBER	6		
DATE			
DRAWING NO.	EP-3893-23		
DATE	8-511+1		
SHEET	S11+1 OF 3		

**McGRANAHAN, MESSENGER ASSOCIATES**  
 ARCHITECTURE / PLANNING / INTERIORS  
 MEMBER AMERICAN INSTITUTE OF ARCHITECTS • 950 FAWCETT BLVD 300 TACOMA, WA 98402 • (206) 363-3004

REVISION	BY	APP.	DATE
REVISD TO AS-BUILT			8-29-85

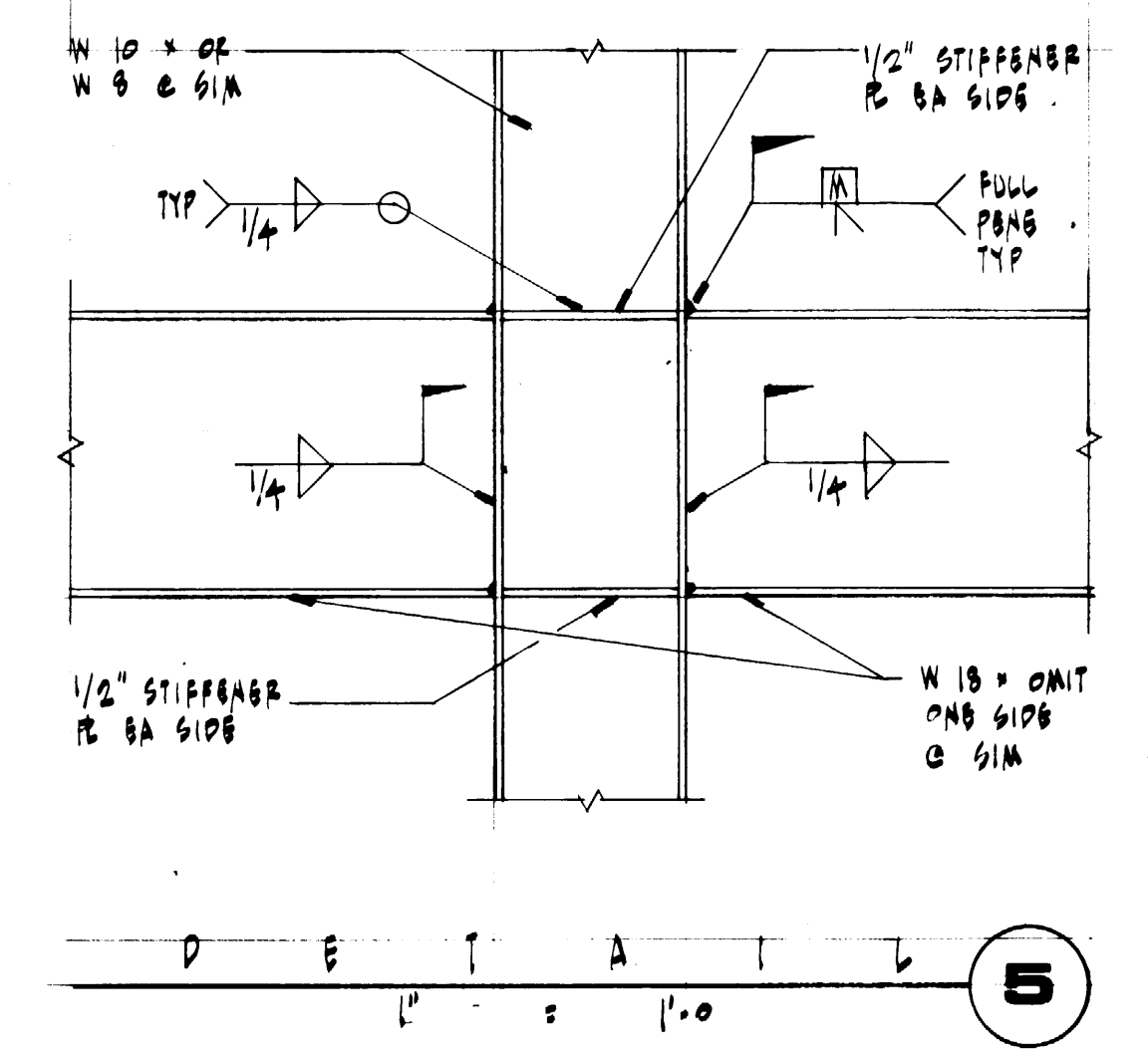




**COLUMN SCHEDULE 4**

MARK	COLUMN SECTION	REMARKS
C1	W 8 x 58	
C2	W 10 x 68	
C3	3" STD PIPE COL	
C4	W 8 x 28	
C5	TS 4 x 4 x 1/4	
C6	B.U. COLUMN W/ (4) 2 x 6 STUDS	
C7	B.U. COLUMN W/ (8) 2 x STUDS	USE 2" x 8" OR 2" x 12" STUDS TO MATCH WALL FRAMING
C8	TS 3 x 3 x 1/4	

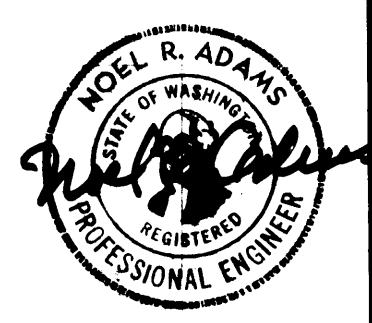
○ INDICATES COLUMNS BELOW THIS FLOOR LEVEL.  
 ■ INDICATES COLUMNS BEARING ON THIS LEVEL.



**SHEARWALL SCHEDULE \*\*\* 6**

MARK	SHEATHING	NAILING **	A.B. SPACING #	REMARKS
1	1/2" CDX EA SIDE OF WALL	10# @ 4" OC. BRDBS & 10# @ 12" OC. INTERM.	2'-0" O.C.	BLOCK ALL HORIZ. PLYWOOD JOINTS
2	1/2" CDX EA SIDE OF WALL	10# @ 6" OC. BRDBS & 10# @ 12" OC. INTERM.	N/A	DO
3	1/2" CDX (1) SIDE OF WALL	10# @ 4" OC. BRDBS & 10# @ 12" OC. INTERM.	4'-0" O.C.	DO
4	1/2" CDX (1) SIDE OF WALL	10# @ 6" OC. BRDBS & 10# @ 12" OC. INTERM.	4'-0" O.C.	DO
5	1/2" CDX EA SIDE OF WALL	10# @ 3" OC. STAGGERED BRDBS 10# @ 12" OC. INTERM.	1'-0" O.C.	BLOCK ALL HORIZ. PN LTB PROVIDE P.D. STUDS @ VERT. PANEL BRDBS

\* PERTAINS TO GROUND FLOOR WALLS. ALL A.B. TO BE 3/4" φ J-BOLTS W/ 6" EMBEDMENT.  
 \*\* ALL NAILS TO BE COMMON NAILS.  
 \*\*\* ALL EXTERIOR WALLS, NOT DESIGNATED SHEAR WALLS, SHALL HAVE PLYWOOD, NAILING & A.B. FOR TYPE 1 BLOCKING & HORIZONTAL PN BRDBS NOT REQ'D.

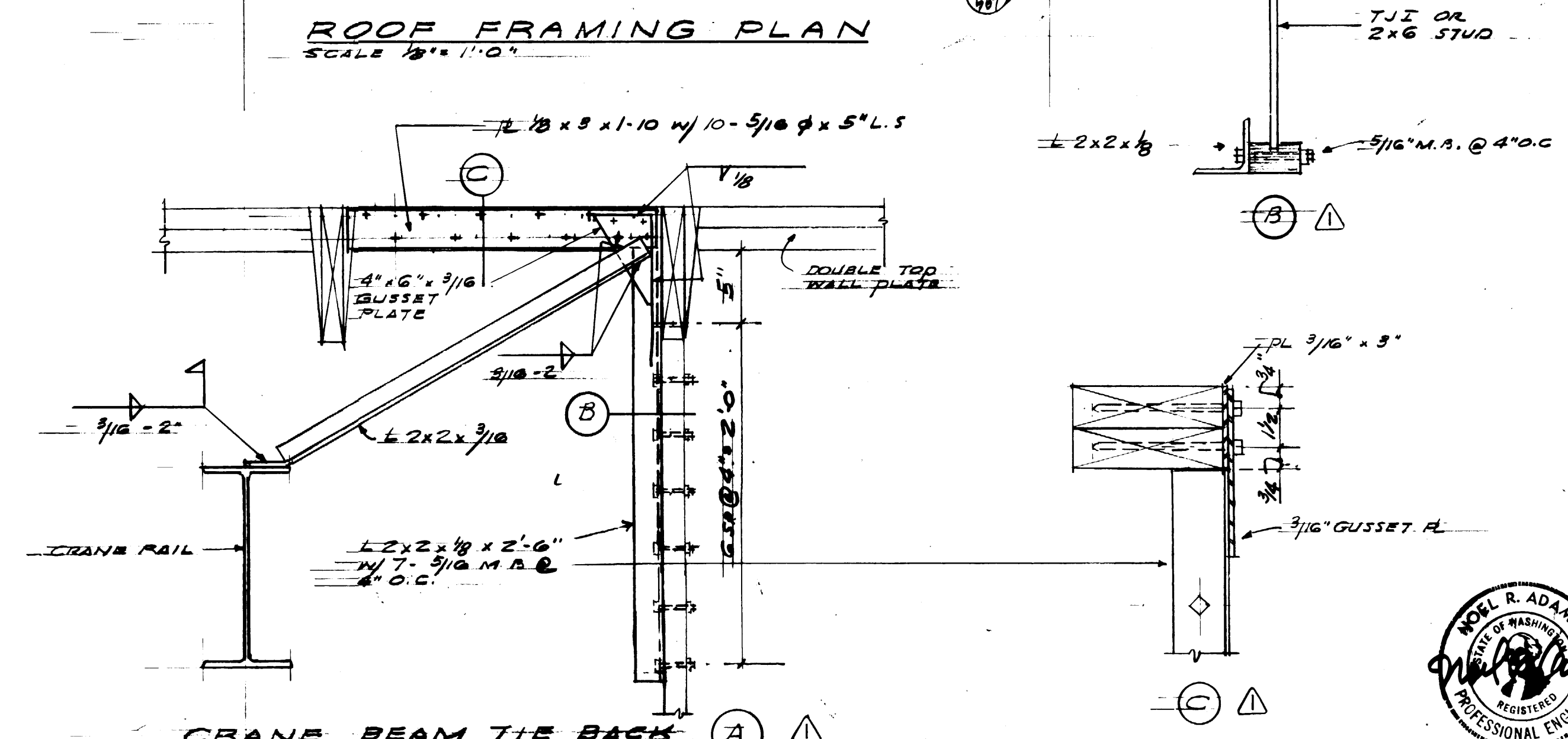
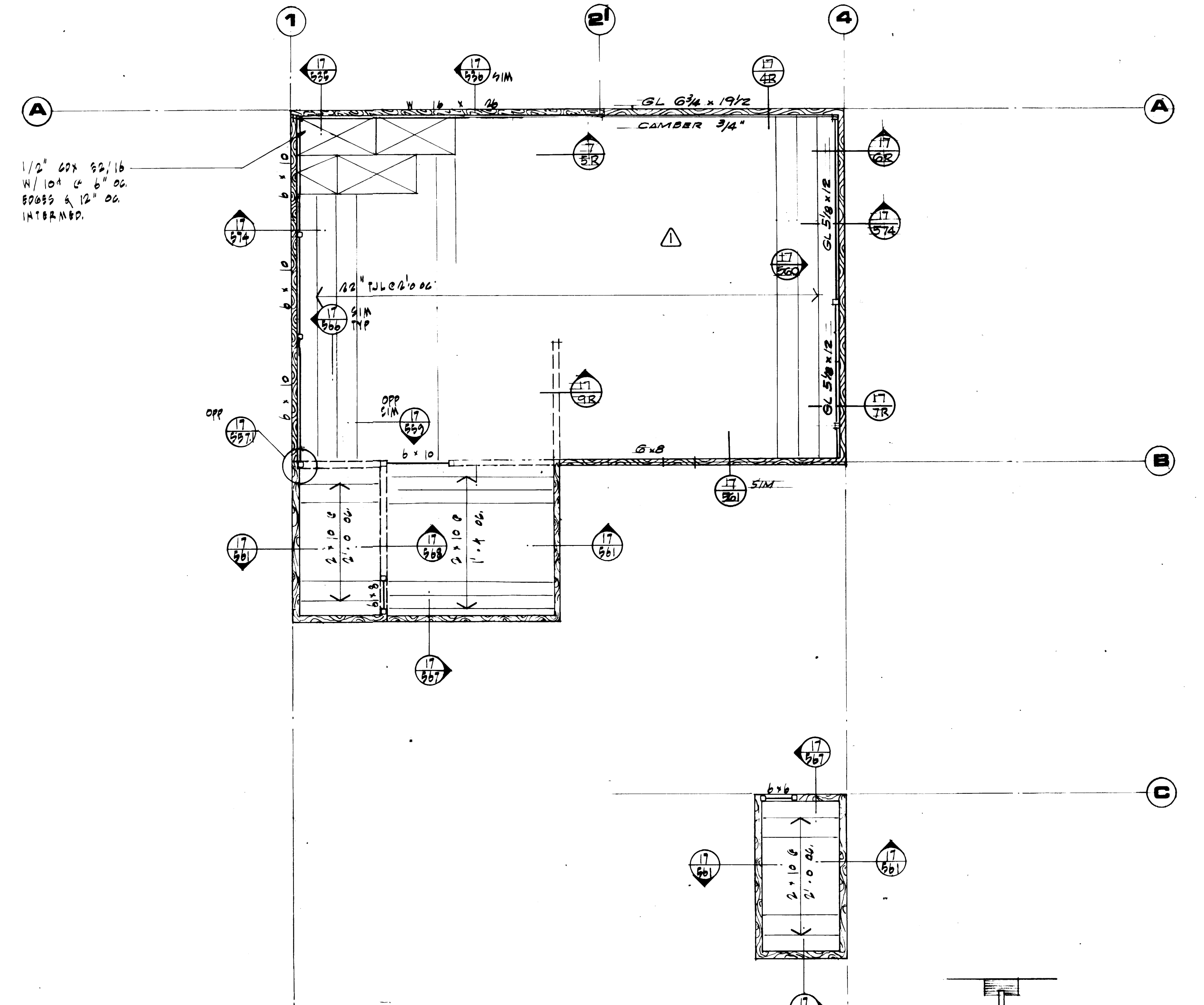
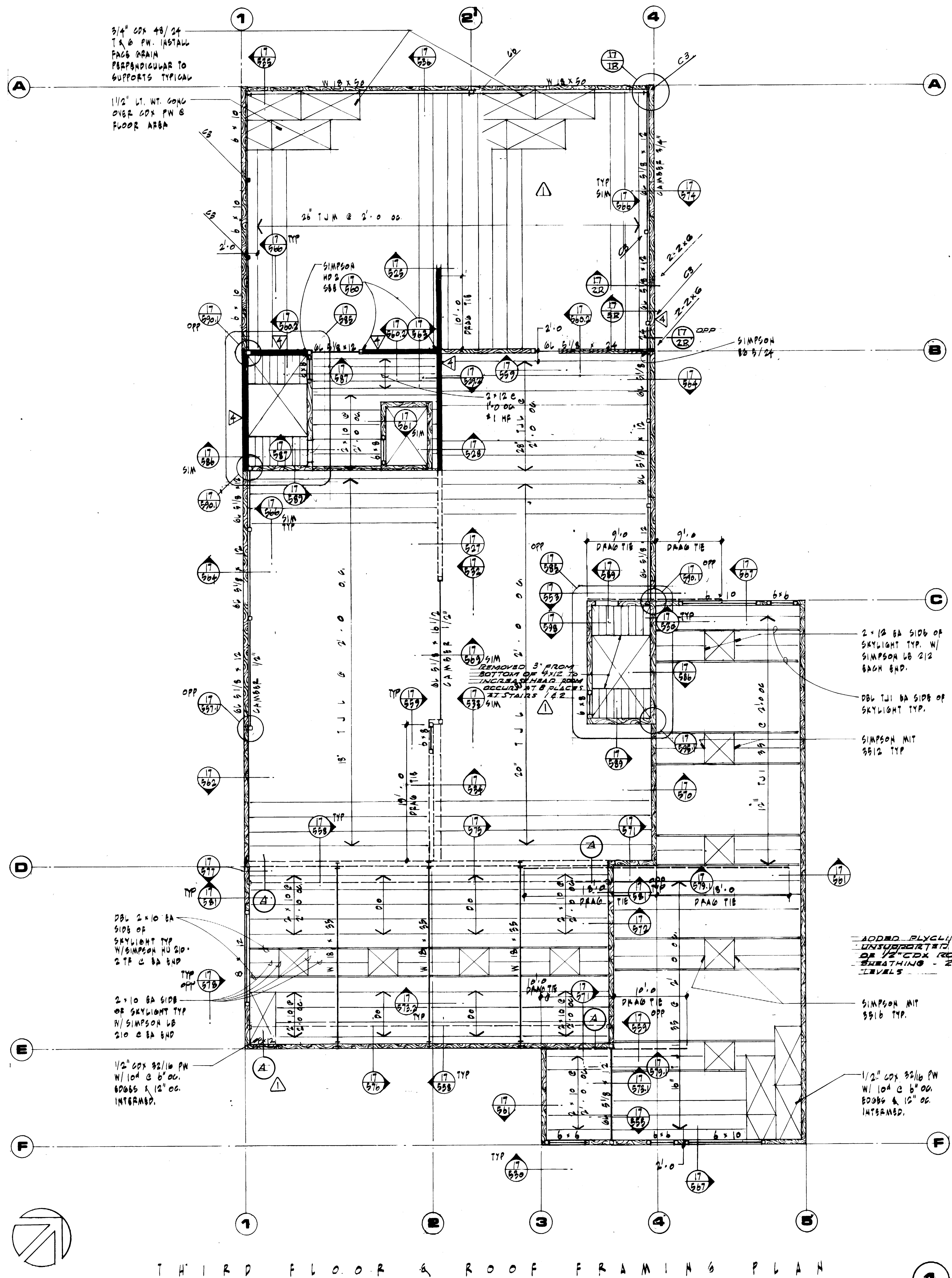


**AH** Adams/Hodsdon & ASSOC.  
 Adams, Hodsdon & Associates, Inc., Structural Engineers  
 5308 12th Street East • Tacoma, Washington 98424  
 (206) 922-1600, Seattle (206) 624-4138

**PORT OF TACOMA**  
**TACOMA TERMINALS, INC.**  
**MARINE SERVICES BUILDING**  
**SECOND FLOOR FRAMING PLAN**

<b>McGRANAHAN, MESSENGER ASSOCIATES</b> ARCHITECTURE / PLANNING / INTERIORS MEMBER AMERICAN INSTITUTE OF ARCHITECTS • 950 / AVENUE 111, SUITE 300, TACOMA, WA 98402 • (206) 343-3084	DRAWN: <u>9-24-84</u>	DATE: <u>9-24-84</u>	CHECKED: _____	DATE: _____	CHECKED: _____	DATE: _____	CONT. NO. <u>582</u>	FIELD BOOK (S): _____	SCALE: _____
	NO. 45 BUILT CHANGES	R.J.S	8-27-85	<u>John T. [Signature]</u> DATE: <u>9/24/84</u>		<u>Chris [Signature]</u> DATE: _____		APPROVED: _____	DRAWING NO. EP-3893-23 6-S11-2
MARK	REVISION	BY	APP.	DATE	SHEET: <u>S11-2</u> OF <u>3</u>				





THIRD FLOOR & ROOF FRAMING PLAN

ROOF FRAMING PLAN

CRANE BEAM TIE BACK

**MCGRANAHAN, MESSINGER ASSOCIATES**  
 ARCHITECTURE / PLANNING / INTERIORS  
 MEMBER AMERICAN INSTITUTE OF ARCHITECTS • 9501 AVE. C111, SUITE 300, TACOMA, WA 98402 • (206) 383-3004

**Adams/Hodsdon & Assoc.**  
 Adams, Hodsdon & Associates, Inc., Structural Engineers  
 5308 12th Street East • Tacoma, Washington 98424  
 (206) 922-1600, Seattle (206) 624-4138

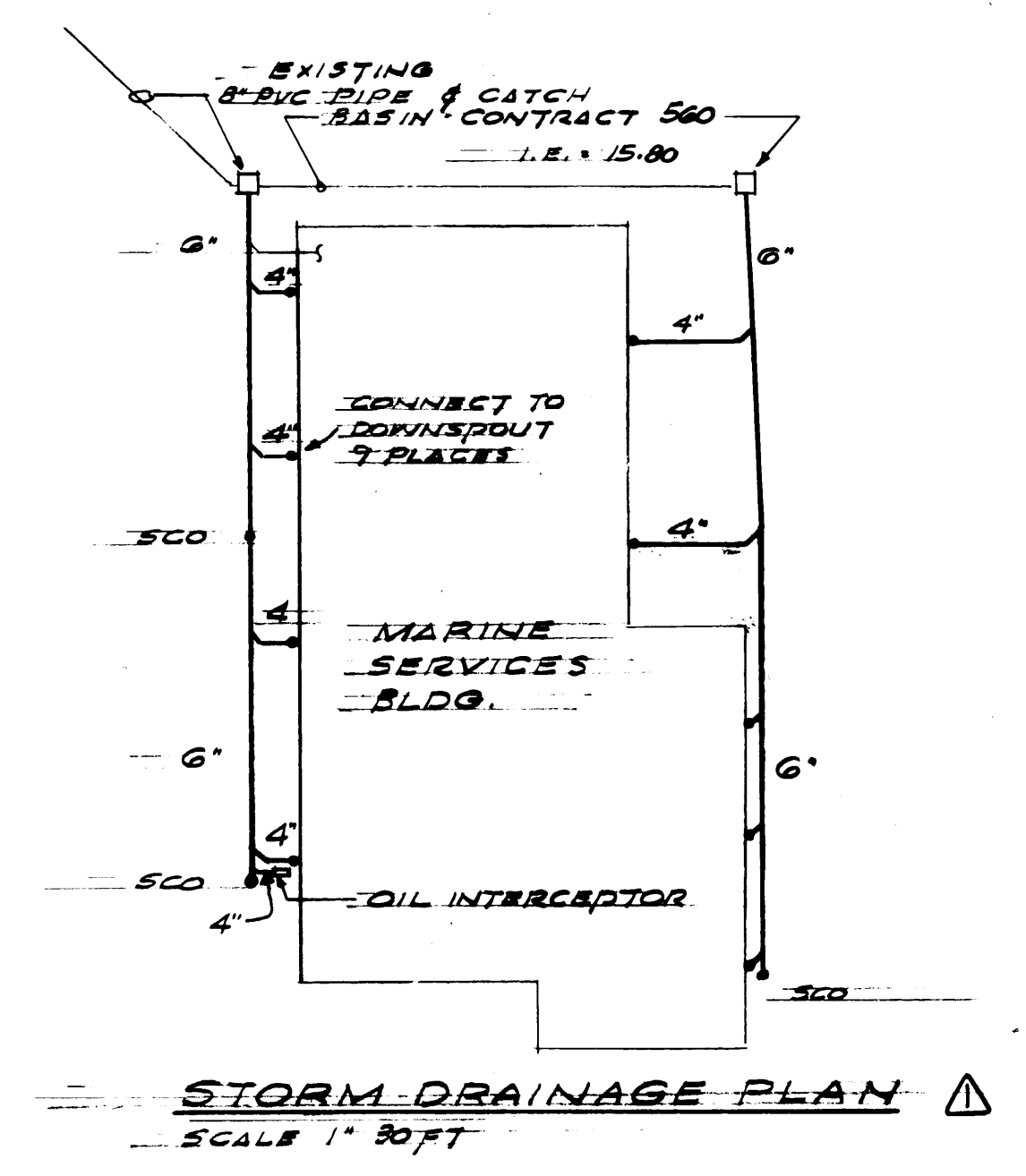
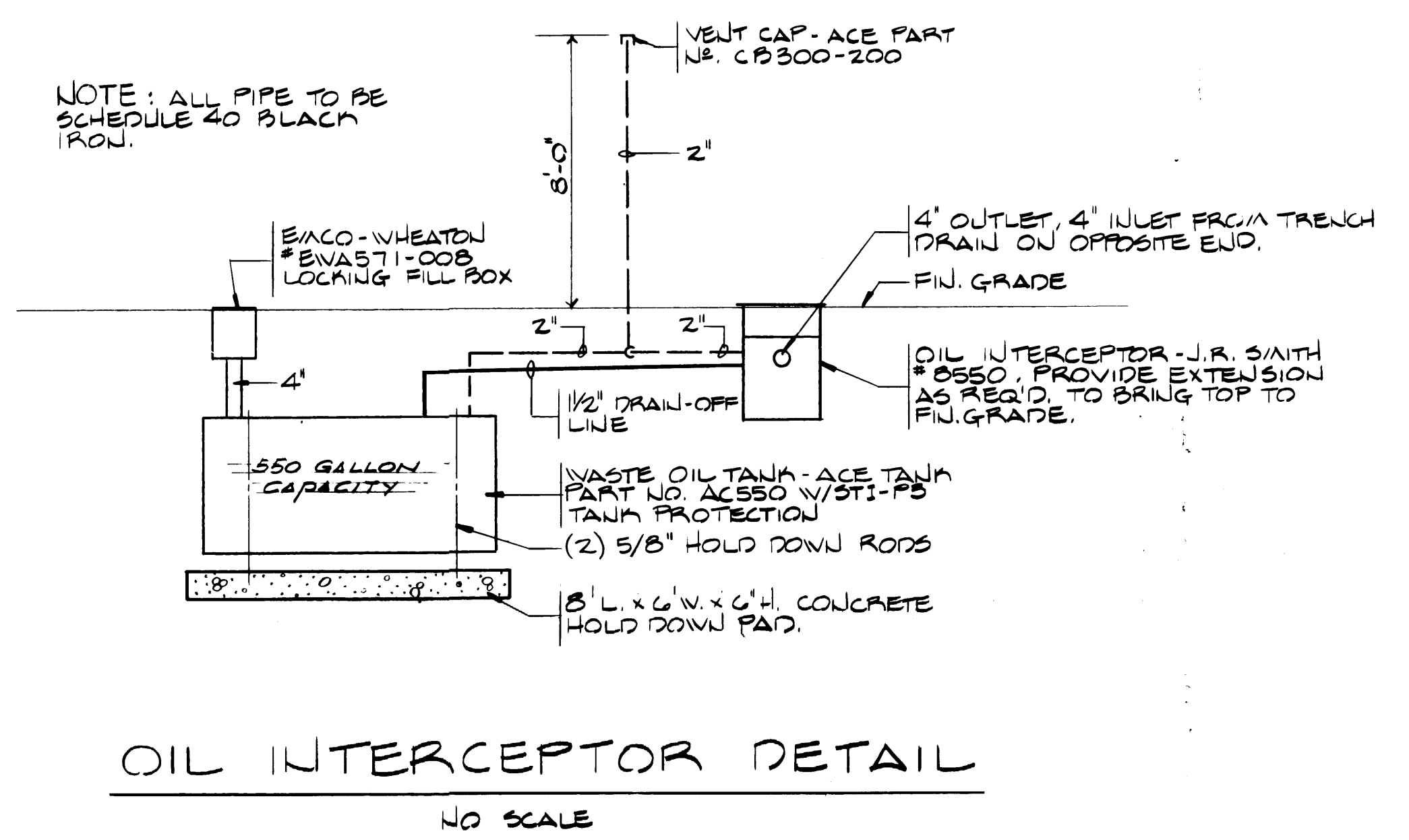
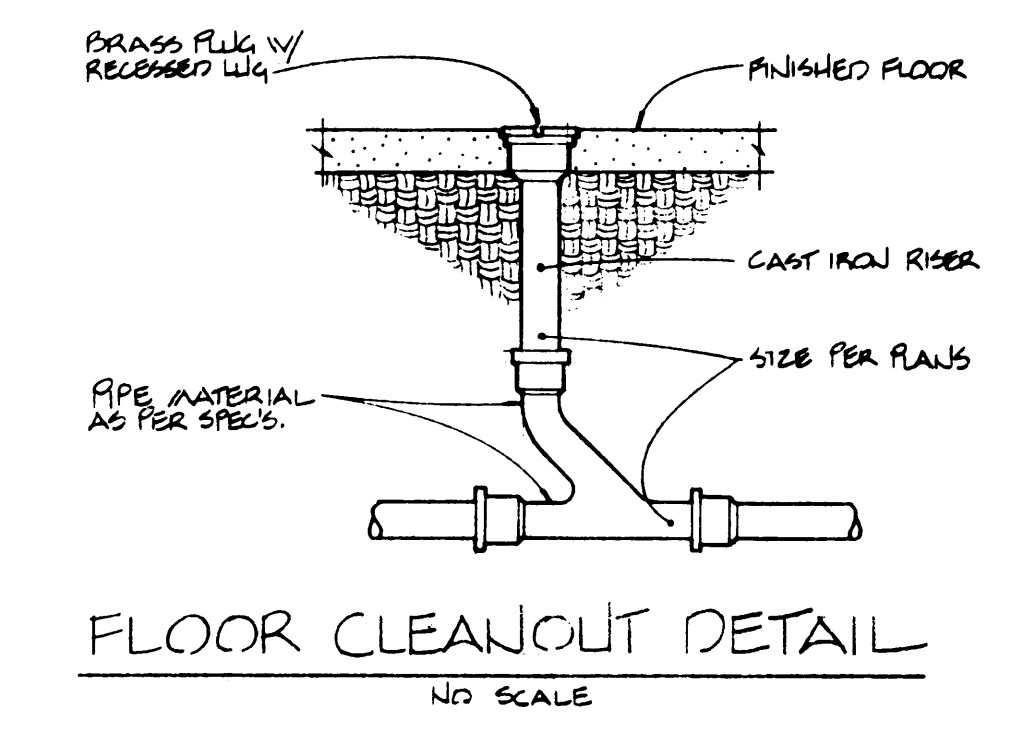
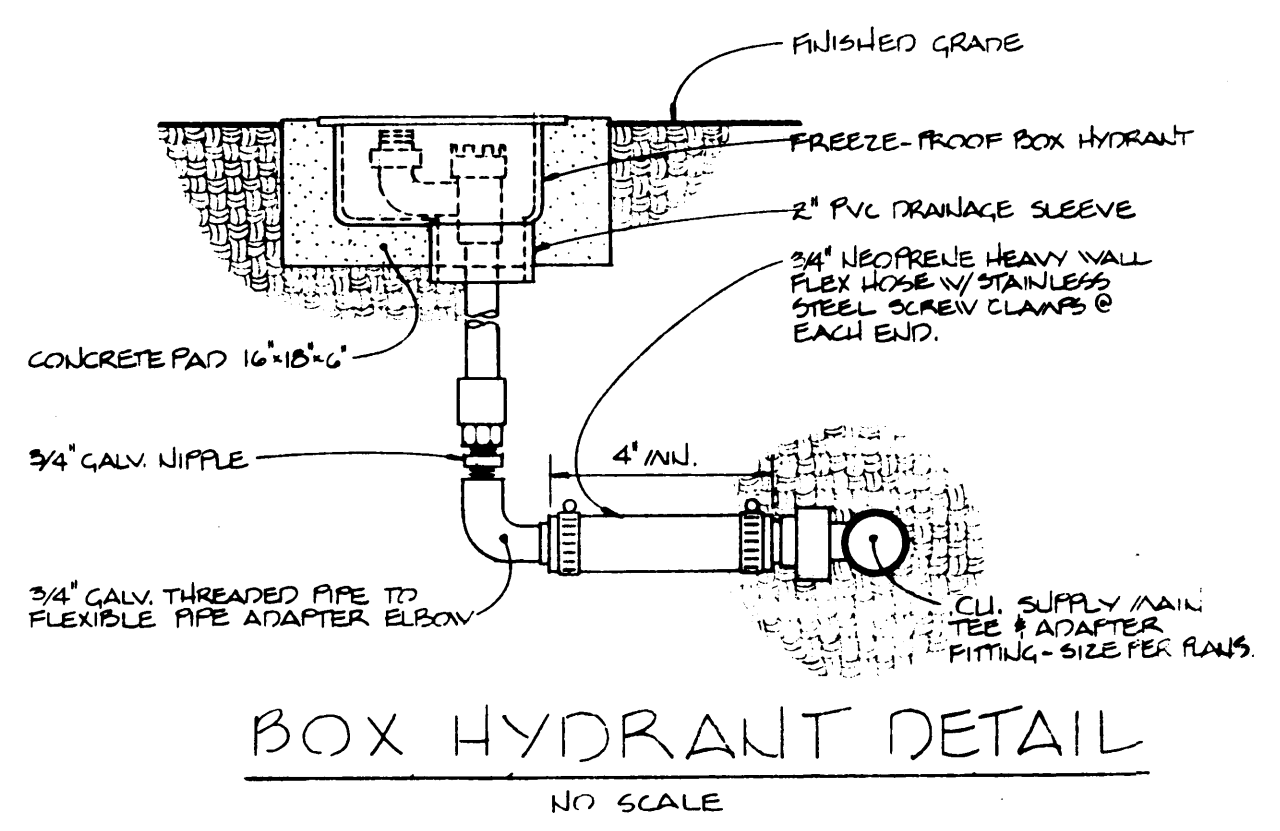
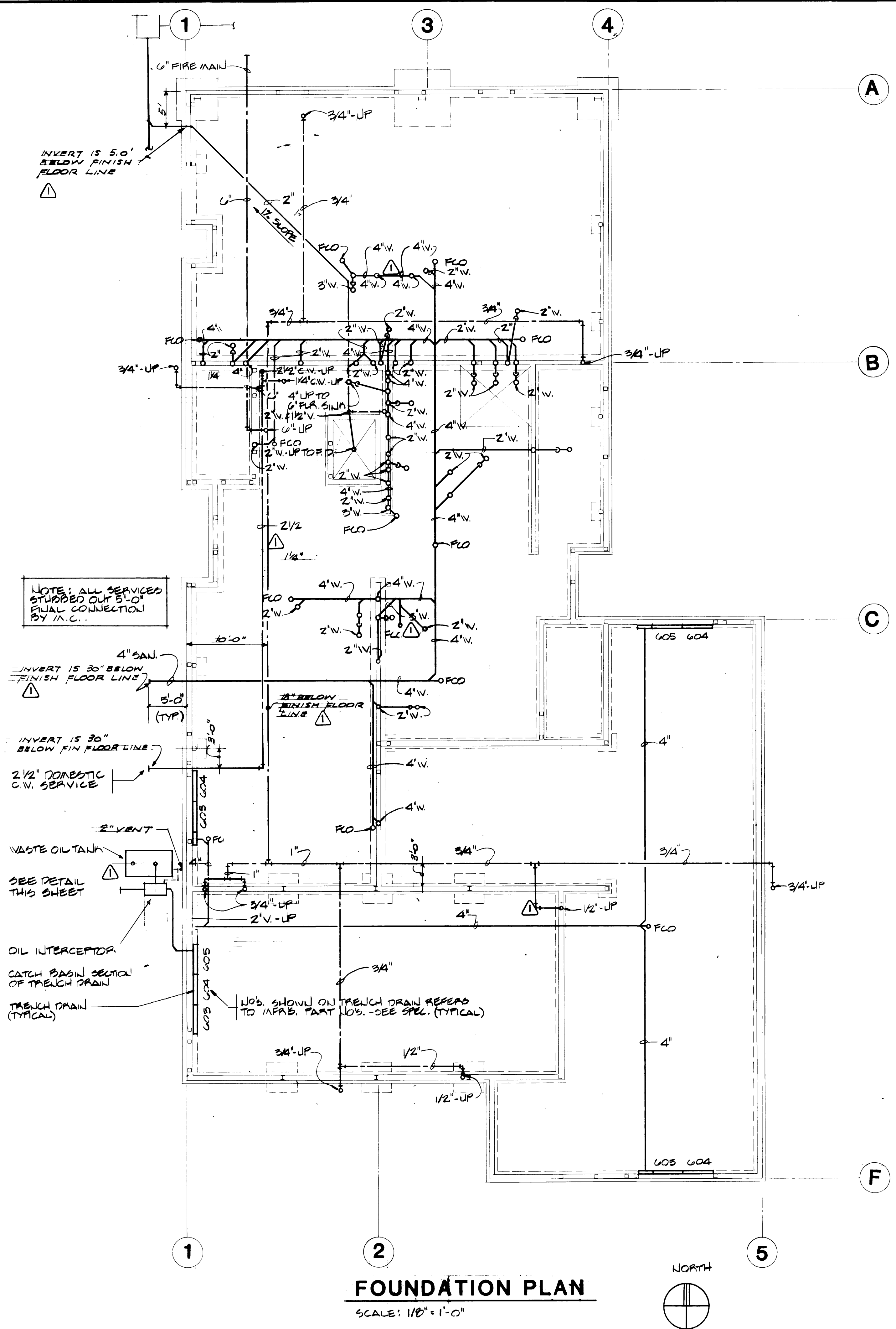
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 CHECKED: [Signature]  
 DATE: [Signature]  
 CONT. NO.: 552

**PORT OF TACOMA**  
**TACOMA TERMINALS, INC.**  
**MARINE SERVICES BUILDING**  
**THIRD FLOOR & ROOF FRAMING PLANS**

MARK	REVISION	BY	APP.	DATE
1	REVISED TO AS BUILT	R.J.S.	[Signature]	9-30-85

FIELD BOOK(S)	SCALE	DRAWING NO.
		EP-3893-23
		6-511-3
APPROVED: [Signature]	DATE: 9/24/84	
CHIEF ENGINEER: [Signature]		





DRAWN _____				PORT OF TACOMA			
DATE _____				TACOMA TERMINALS, INC.			
CHECKED _____				MARINE SERVICES BUILDING			
DATE _____				MECHANICAL FOUNDATION PLAN			
CHECKED _____				CONT. NO. 582			
DATE _____				FIELD BOOK (S) _____			
APPROVED _____				SCALE _____			
DATE 7-4-85				DRAWING NO. EP-3883-23			
PROJECT MANAGER _____				6-M11-1			
DATE _____				SHEET M11-1 OF 8			
CHIEF ENGINEER _____							

REVISION	BY	APP.	DATE
REVISED TO AS BUILT	RJS		7-4-85



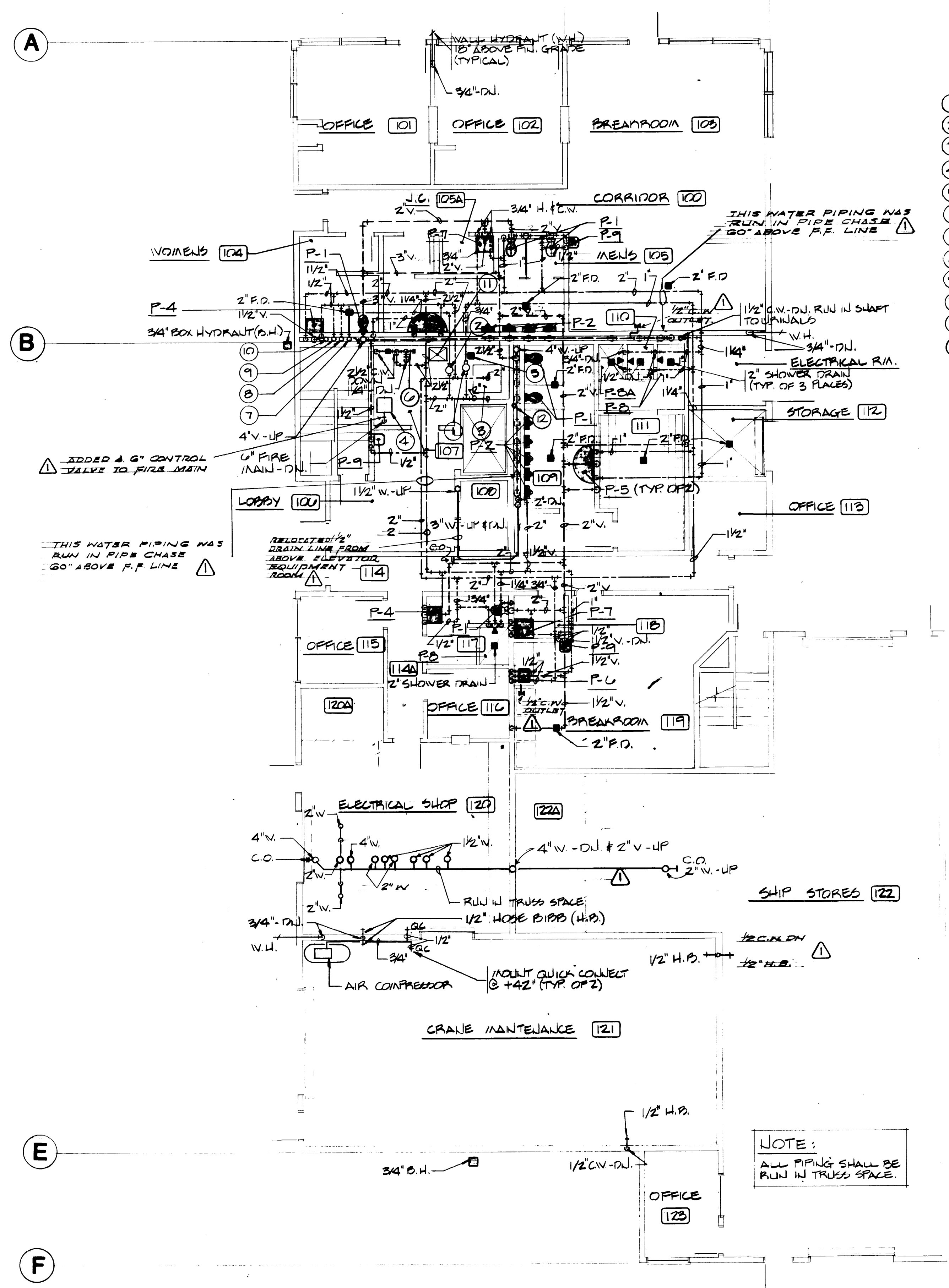
1 3 4

A

B

E

F



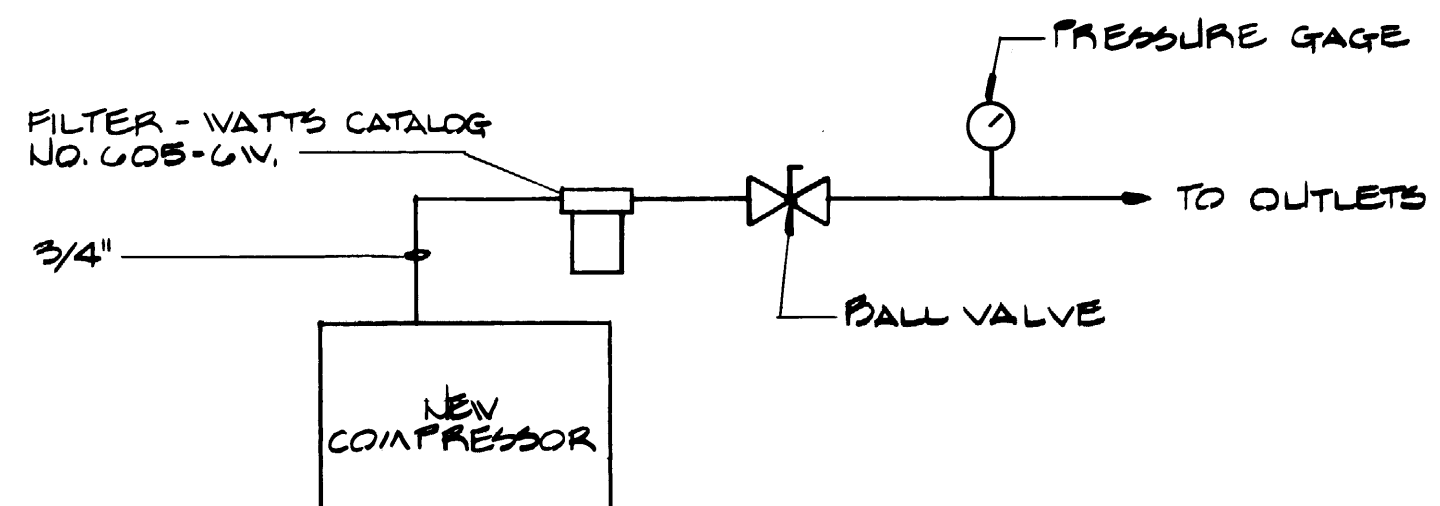
**FIRST FLOOR PLAN-PLUMBING**

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



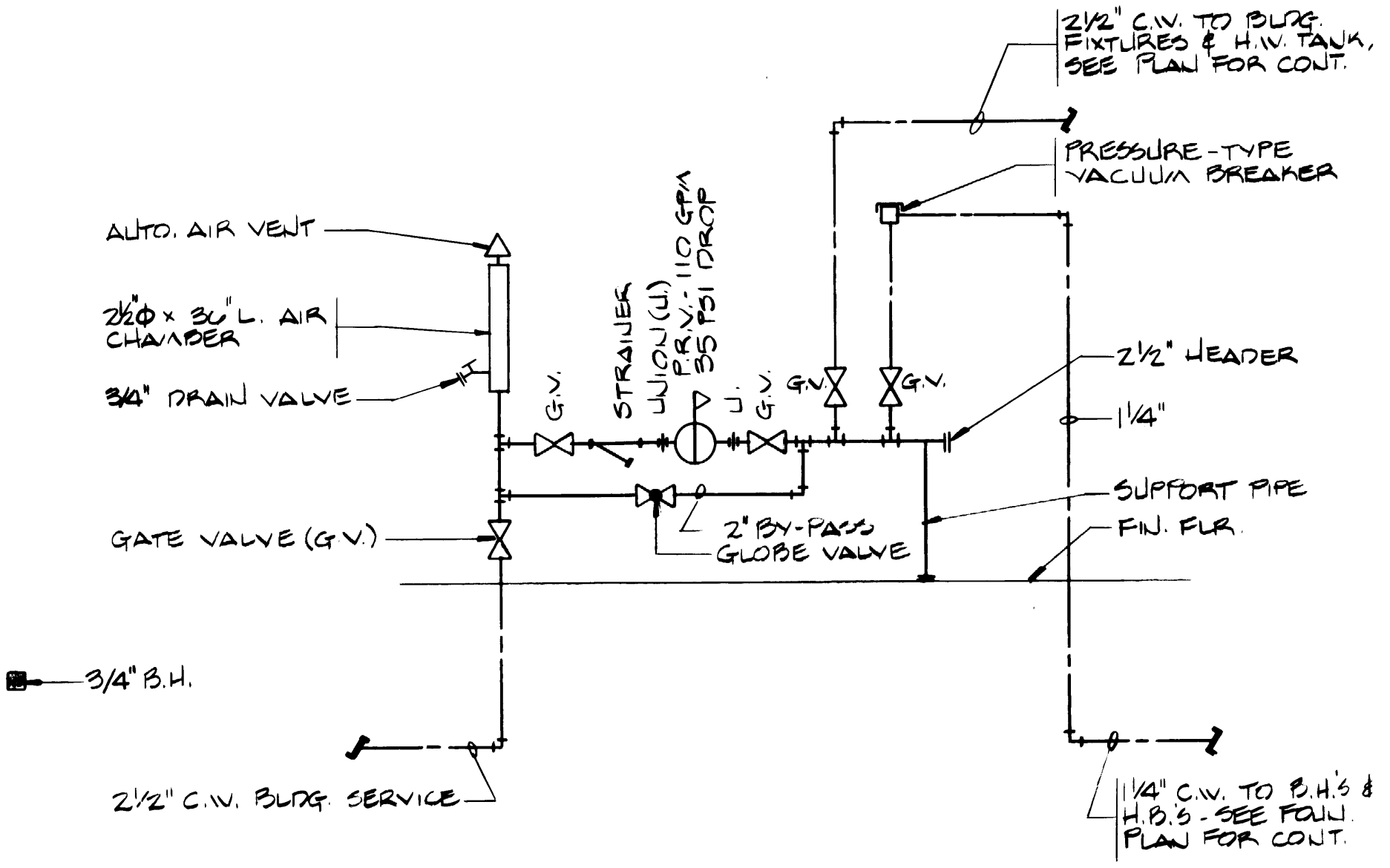
**BUBBLE NOTES**

- ① HOT WATER CIRCULATING PUMP (HWC-1), 1/2 HP-120V.
- ② HOT WATER CIRCULATING PUMP (HWC-2), 1/2 HP-120V.
- ③ H.W. TANK # 1, 250 GALLON (2) 12 KW-480V-3Φ HEATERS
- ④ FIRE SPRINKLING VALVE
- ⑤ 6" FLOOR SINK
- ⑥ COLD WATER HEADER - SEE DETAIL
- ⑦ 1 1/2" H.W.C. - UP
- ⑧ 1 1/2" H.W. - UP
- ⑨ 2" C.W. - UP
- ⑩ 3/4" C.W. - UP & DN.
- ⑪ LOCATION OF AIR COMPRESSOR
- ⑫ 1 1/2" V. - UP & DN.



**COMPRESSED AIR DIAGRAM**

NO SCALE

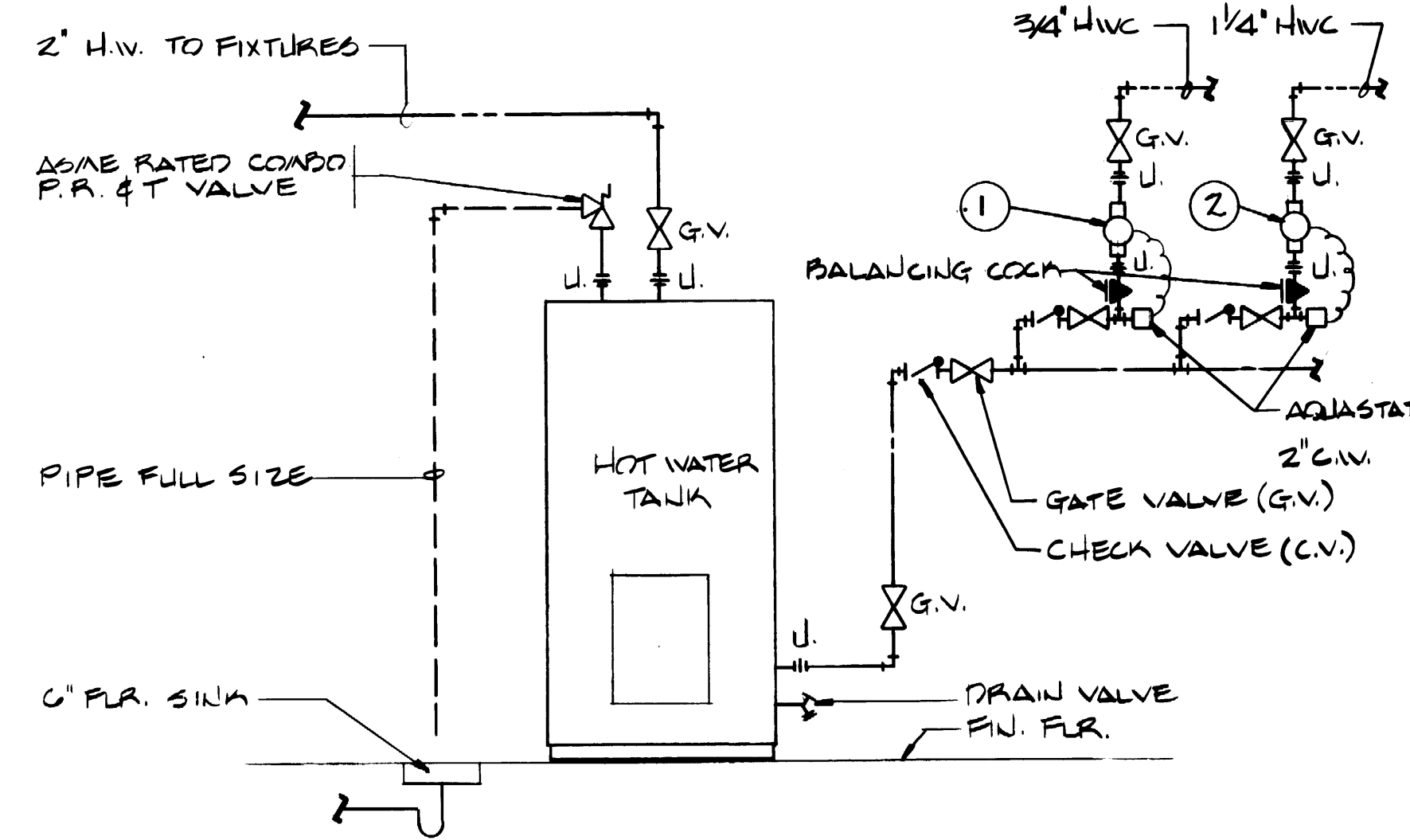


**COLD WATER HEADER DETAIL**

NO SCALE

**PLUMBING FIXTURE SCHEDULE**

SYMBOL	FIXTURE	LOCAL PIPING CONNECTIONS				NOTE
		W.	V.	H.W.	C.W.	
P-1	WATER CLOSET	4"	2"	-	1"	FLUSH VALVE WALL MOUNTED
P-2	URINAL	2"	1 1/2"	-	3/4"	FLUSH VALVE WALL MOUNTED
P-3	LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	COUNTER-TOP OVAL
P-4	LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	WALL MOUNTED
P-5	WASH FOUNTAIN	2"	1 1/2"	1"	1"	54" SEMI-CIRCLE VENT OF DRAIN
P-5A	WASH FOUNTAIN	2"	1 1/2"	1"	1"	54" CIRCULAR
P-6	SINK	1 1/2"	1 1/2"	1/2"	1/2"	COUNTER-TOP
P-7	SERVICE SINK	3"	2"	3/4"	3/4"	WALL HUNG
P-8	SHOWER	2"	1 1/2"	1/2"	1/2"	STANDARD
P-8A	SHOWER	2"	1 1/2"	1/2"	1/2"	HANDICAPPED
P-9	DRINKING FOUNTAIN	1 1/2"	1 1/2"	-	1/2"	
	FLOOR SINK	4"	2"	-	-	W/ TRAP PRIMER
	FLOOR DRAIN	2"	1 1/2"	-	-	W/ TRAP PRIMER



**HOT WATER TANK DETAIL**

NO SCALE

NOTE:  
ALL PIPING SHALL BE RUN IN TRUSS SPACE.



**PORT OF TACOMA**  
**TACOMA TERMINALS, INC.**  
**MARINE SERVICES BUILDING**  
**FIRST FLOOR PLUMBING PLAN**

DRAWN: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 CONT. NO. 222

APPROVED: \_\_\_\_\_  
 PROJECT MANAGER: \_\_\_\_\_  
 DATE: 9/24/84  
 DATE: \_\_\_\_\_  
 DATE: \_\_\_\_\_

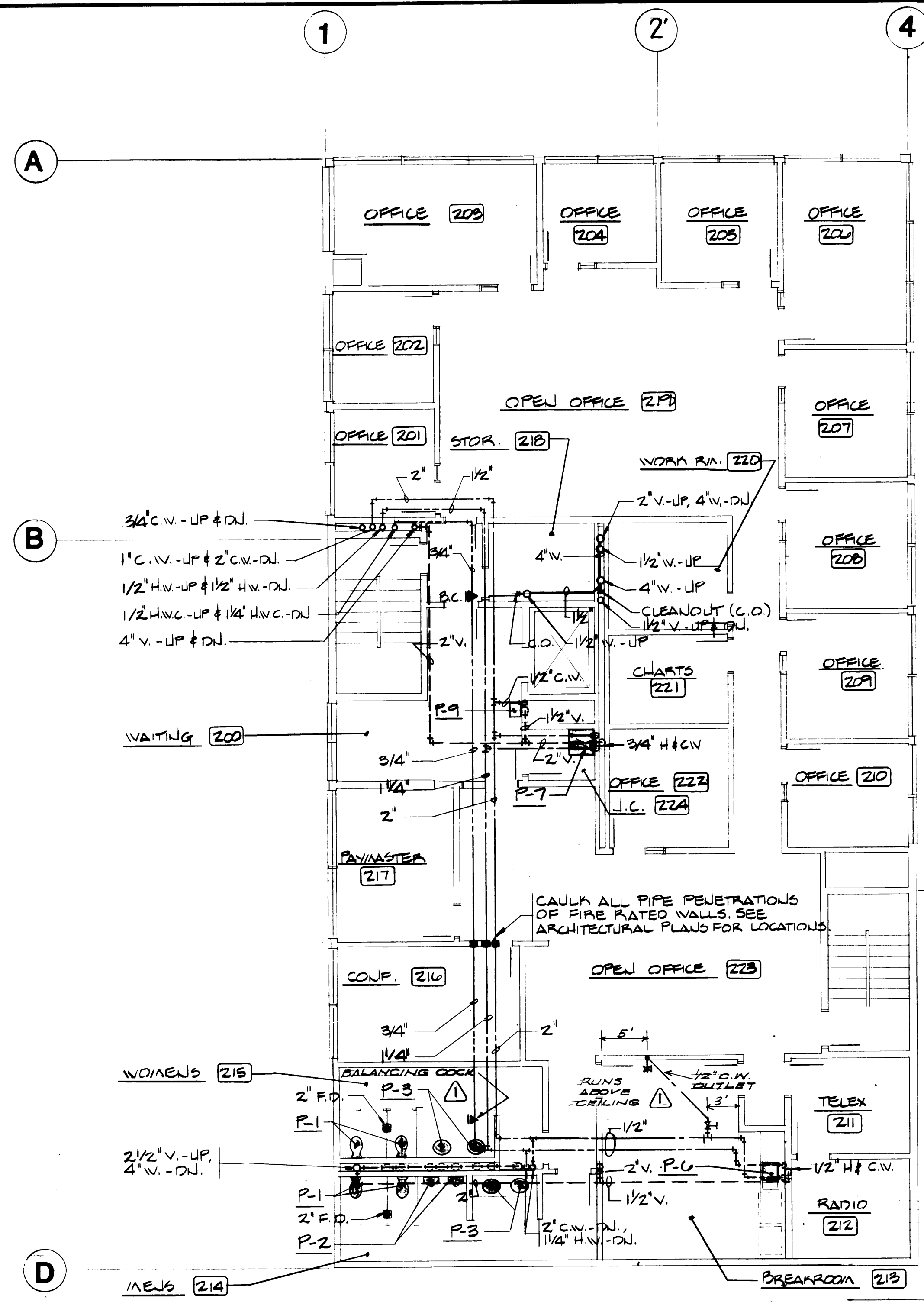
FIELD BOOK (S): \_\_\_\_\_  
 SCALE: \_\_\_\_\_

REVISIONS:

MARK	REVISION	BY	APP.	DATE
1	REVISED TO AS BUILT	R.J.S.		9-4-88

DRAWING NO. EP-3883-23  
 8-M11-2  
 SHEET M11-2 OF 8

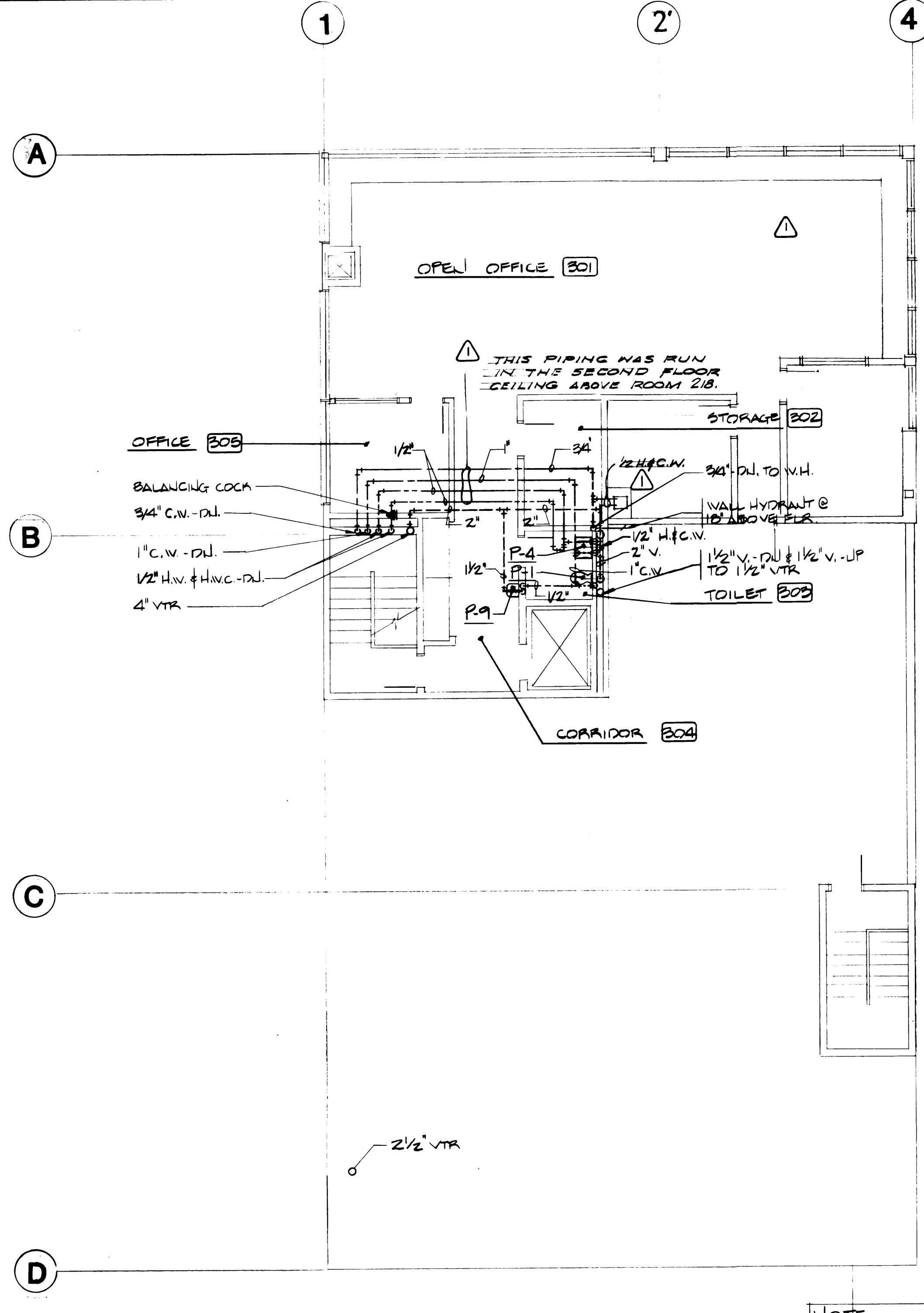
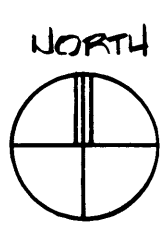




NOTE:  
ALL PIPING SHALL BE RUN  
IN TRUSS SPACE.

**SECOND FLOOR PLAN-PLUMBING**

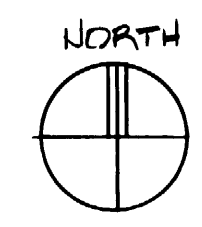
SCALE: 1/8" = 1'-0"



NOTE:  
ALL PIPING SHALL BE RUN  
IN TRUSS SPACE

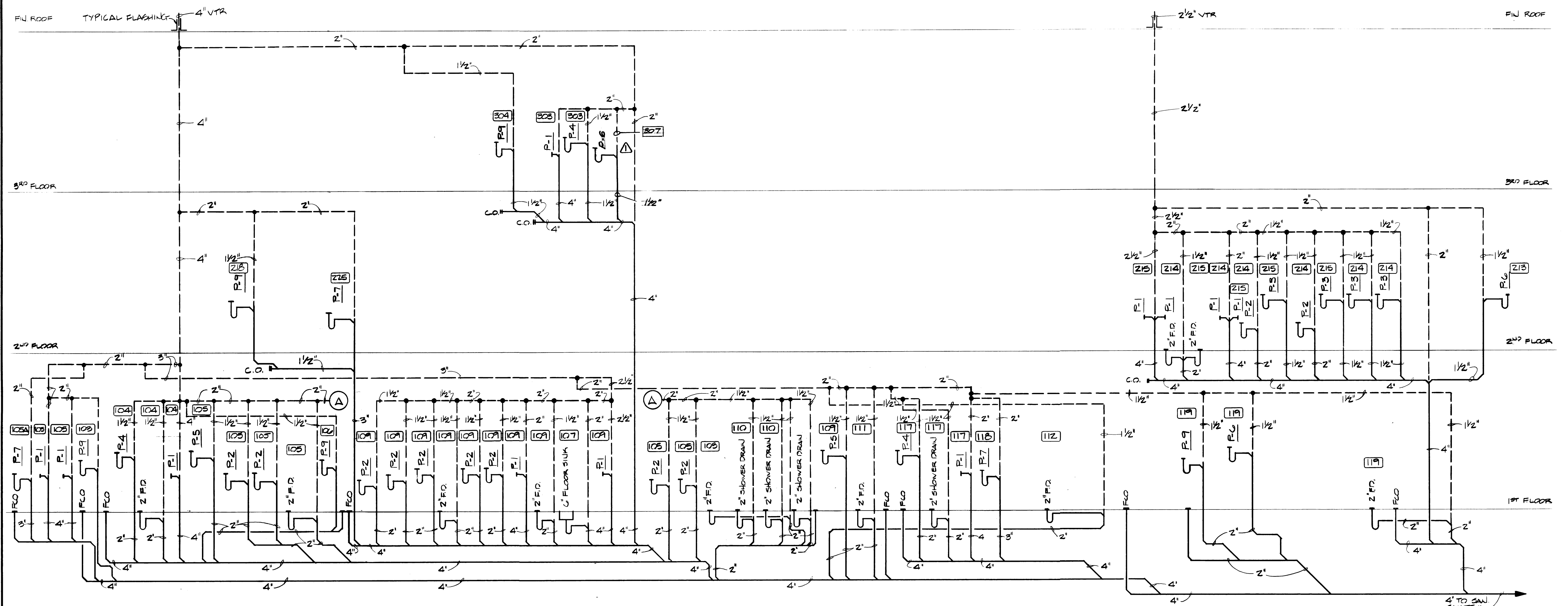
**THIRD FLOOR PLAN-PLUMBING**

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



DRAWN _____		<b>PORT OF TACOMA</b>	
DATE _____		TACOMA TERMINALS, INC.	
CHECKED _____		MANAGE SERVICES BUILDING	
DATE _____		<b>SECOND &amp; THIRD FLOOR</b>	
CHECKED _____		<b>PLUMBING PLANS</b>	
DATE _____		FIELD BOOK (S) _____	
CONT. NO. <b>562</b>		SCALE _____	
APPROVED _____		DRAWING NO. <b>EP-3893-23</b>	
PROJECT MANAGER _____		DATE <b>7/24/84</b>	
DATE _____		PROJECT NO. <b>6-M11-3</b>	
DATE _____		DATE _____	
DATE _____		DATE _____	

MARK	REVISION	BY	APP.	DATE
△	REVISED TO AS BUILT	R.J.S		7-4-84

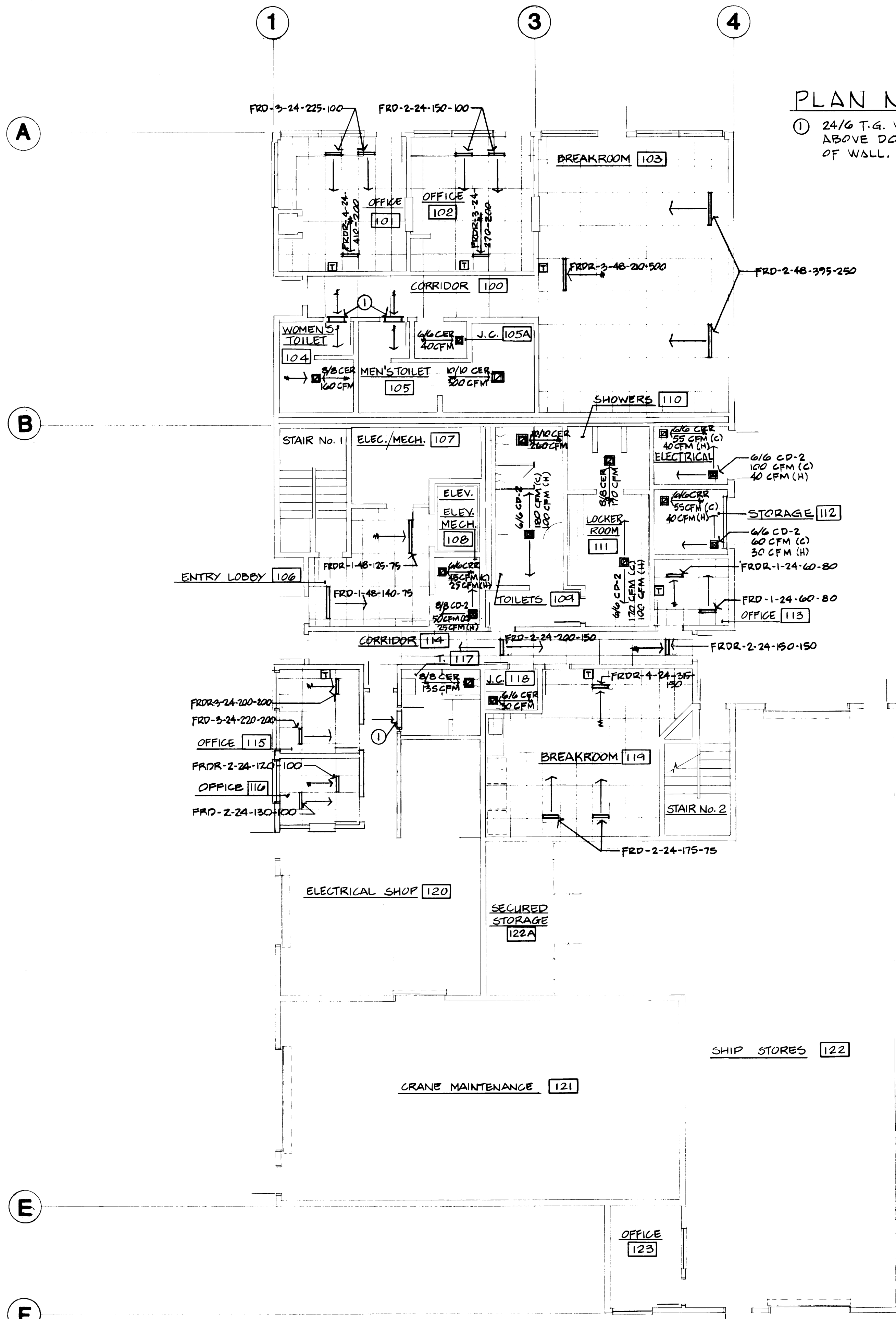


**PLUMBING RISER DIAGRAM**  
NO SCALE



DRAWN _____		DATE _____		<b>PORT OF TACOMA</b> TACOMA TERMINALS, INC. <b>MARINE SERVICES BUILDING</b> <b>PLUMBING RISER DIAGRAM</b>	
CHECKED _____		DATE _____			
CHECKED _____		DATE _____			
CHECKED _____		DATE _____			
CONT. NO. <b>892</b>					
FIELD BOOK (S) _____				SCALE _____	
APPROVED _____				DATE <b>9/24/84</b>	
PROJECT MANAGER _____				DATE _____	
CHIEF ENGINEER _____				DATE _____	
DRAWING NO. EP-3893-23		6-M11-4		M11-4 OF 8	

MARK	REVISION	BY	APP.	DATE
Δ	REVISED TO AS-BUILT	R.J.S.		7-5-85



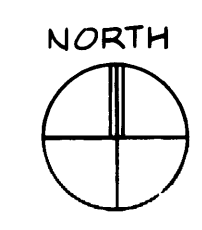
**PLAN NOTES**

① 24/6 T.G. WITH FIRE DAMPER. MOUNT ABOVE DOOR. GRILLE ON BOTH SIDES OF WALL.

VAV TERMINAL BOX SCHEDULE													
BOX No.	MODEL	MANUFACTURER	DESIGN CAPACITY CFM		FAN MOTOR			ELECTRIC COIL SIZE			NOTES		
			COOLING	HEATING	HP	VOLTS	PHASE	S.P.	KW	VOLTS		PHASE	STAGE
A	HFB	TEMPMASTER	530	210	1/2	120	1	.25	2.5	277	1	2	10%
B			380	300	1/10			.28	4.0				
C			350	210	1/12			.29	2.5				
D			290	210	1/12			.17	2.5				
E			270	210	1/12			.14	2.5				
F			600	460	1/10			.18	5.0				
G			700	460	1/10			.23	5.0				
H			450	300	1/10			.29	4.0				
I			180	160	1/12			.24	2.0				
J			845	460	1/10			.33	5.0				
K			500	210	1/12			.33	2.5				
L			450	200	1/12			.29	2.5				
M			-300	200	1/10			.23	2.5				
N			790	460	1/10			.24	6.0				
O			760	450	1/10			.18	6.0				
P			550	300	1/10			.29	2.5				
Q			180	100	1/12			.17	1.0				
R			220	200	1/12			.28	2.5				

HEAT PUMP SCHEDULE																					
UNIT #	AREA SERVED	MFR.	MODEL NO.	COOLING CAPACITY				INTEGRATED HEATING CAPACITY				INDOOR BLOWER		FILTERS NO. & SIZE	NOTES						
				INDOOR COIL	OUTDOOR COIL	TOTAL	SEPARATE COILS	OUTDOOR	INTEGRATED	COMPRESSOR	ΔT	S.P.	MOTOR			ELECT.					
1	3RD FLR MARINE SERVICES BLDG.	TRANE	5NH72BA 100A	1640	67°	78°	49,500	30,700	5300	95°	460	3	22°	31,300	4.16	DUCT HIR - SEE FLR PLAN. 7.5 KW, 480V 3PH.	40	1/2	230	1	2'-20" x 20" x 1"

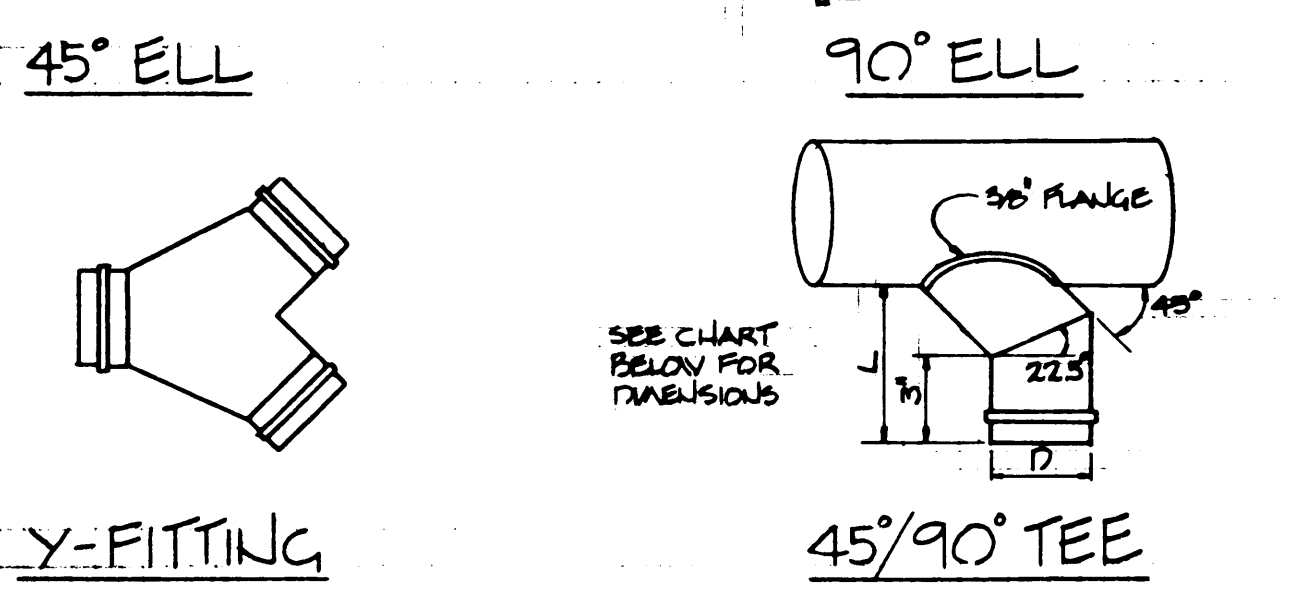
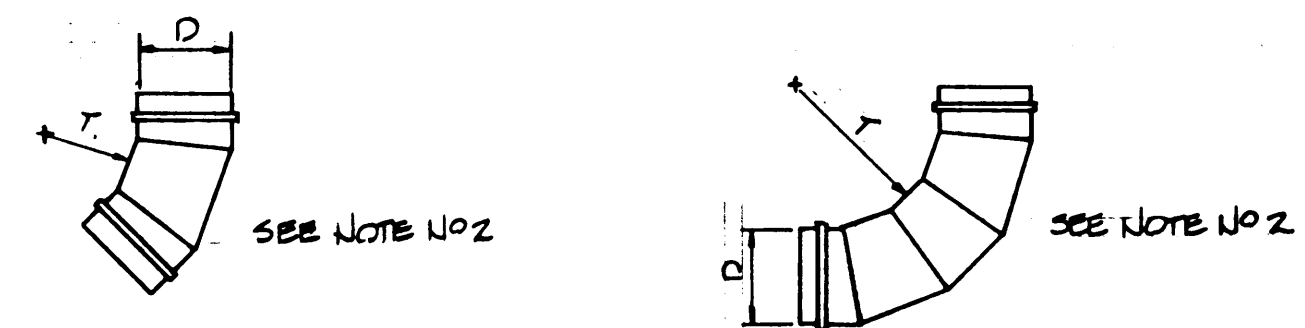
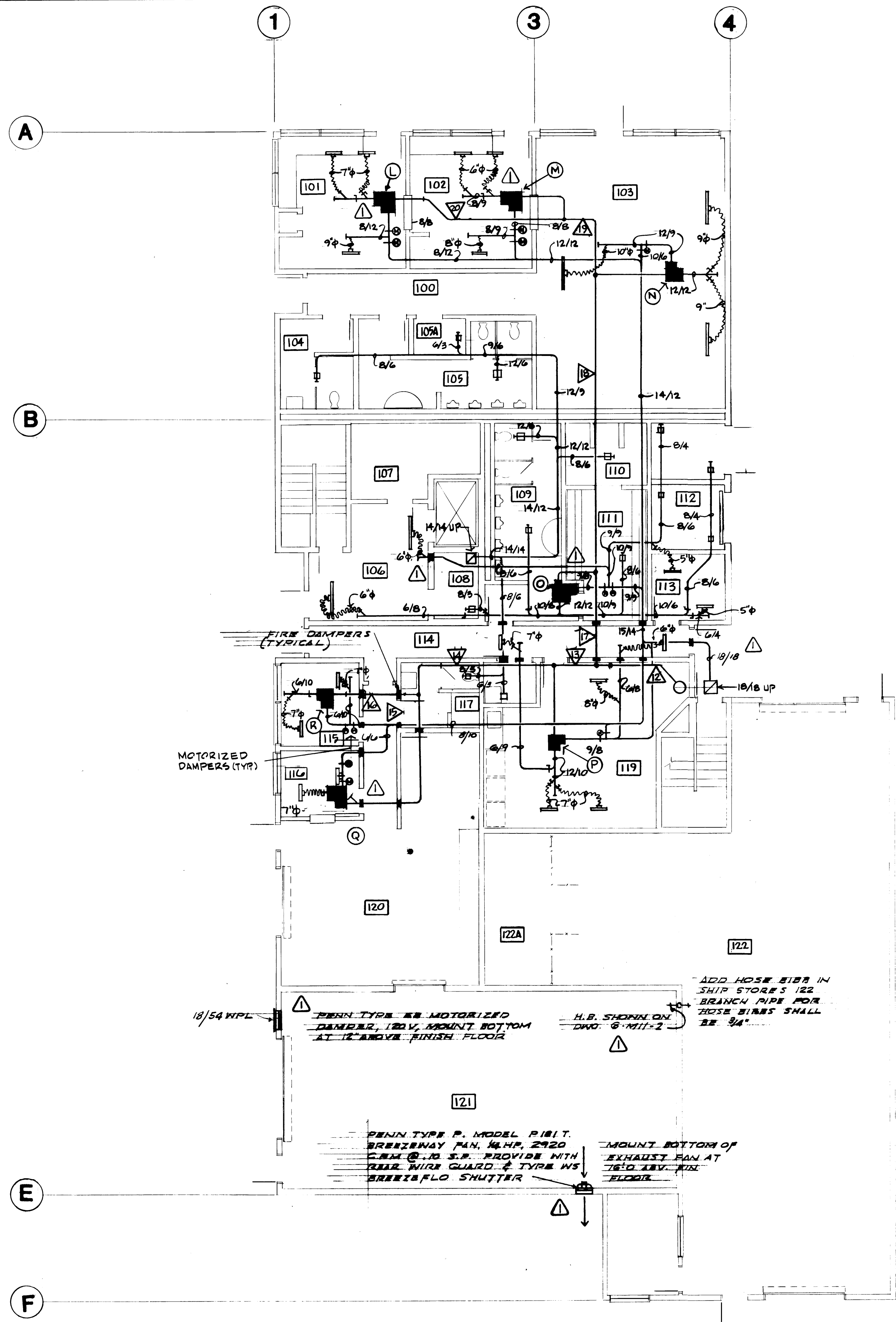
**FIRST FLOOR REFLECTED CEILING PLAN**  
SCALE: 1/8" = 1'-0"



DRAWN _____		DATE _____		CHECKED _____		DATE _____		CHECKED _____		DATE _____		CONT. NO. 802		FIELD BOOK (S) _____		SCALE _____	
APPROVED <i>Andrew Koenig</i>		DATE 9/24/84		PROJ. MGR. _____		DATE _____		CHIEF ENGINEER <i>Chris Koenig</i>		DATE _____		DRAWING NO. EP-3883-23		6-M11-5		SHEET M11-5 OF 8	

MARK	REVISION	BY	APP.	DATE

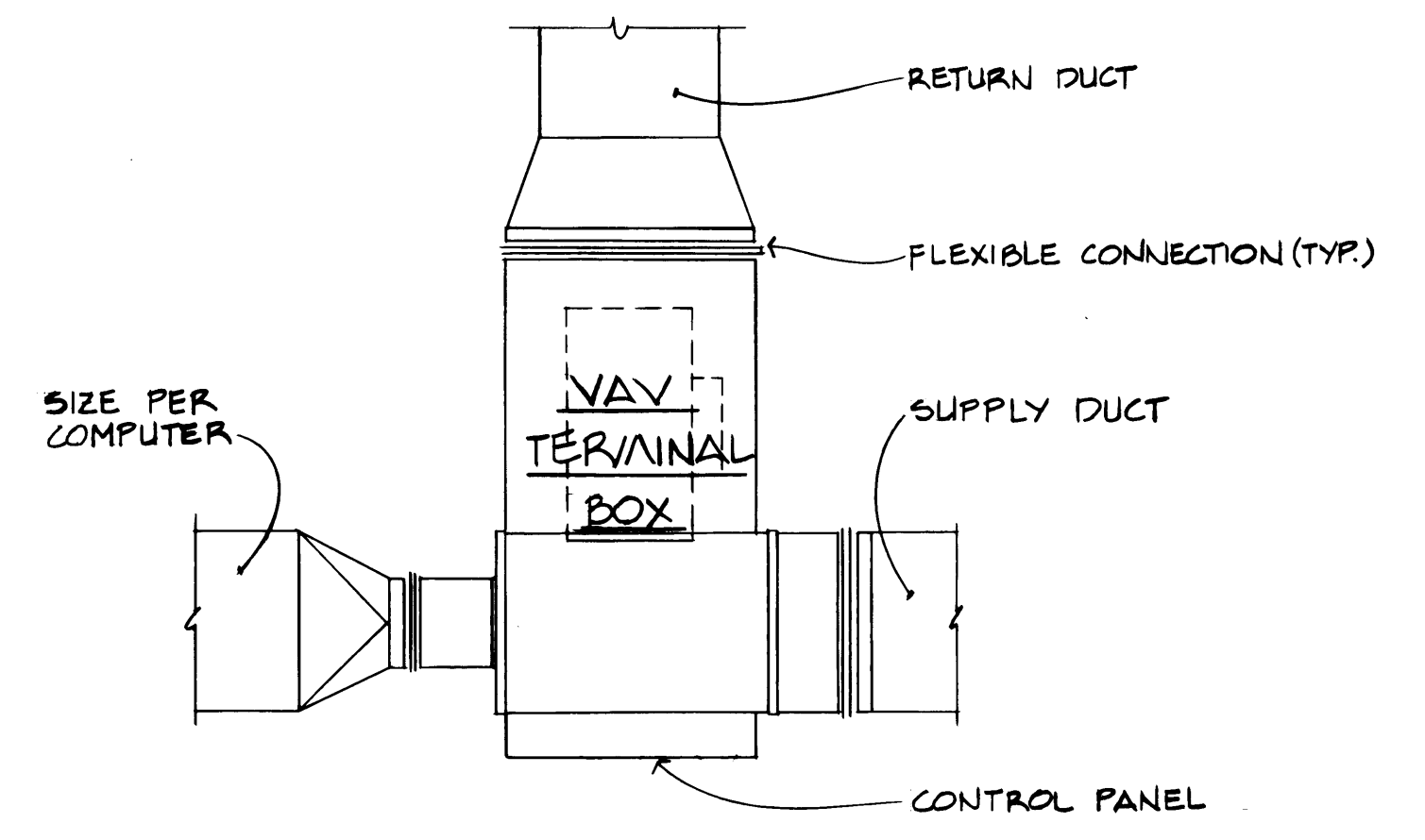




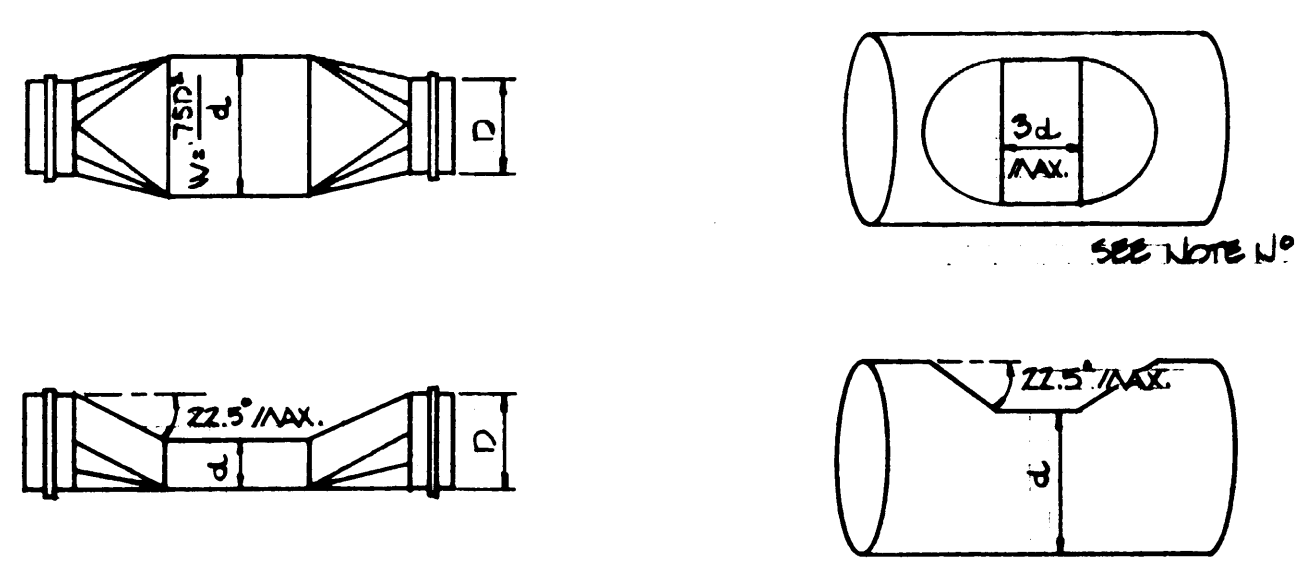
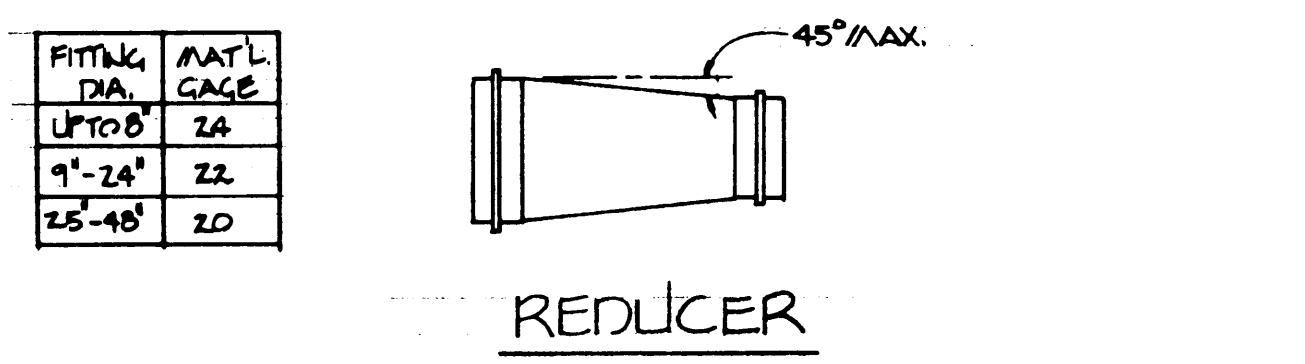
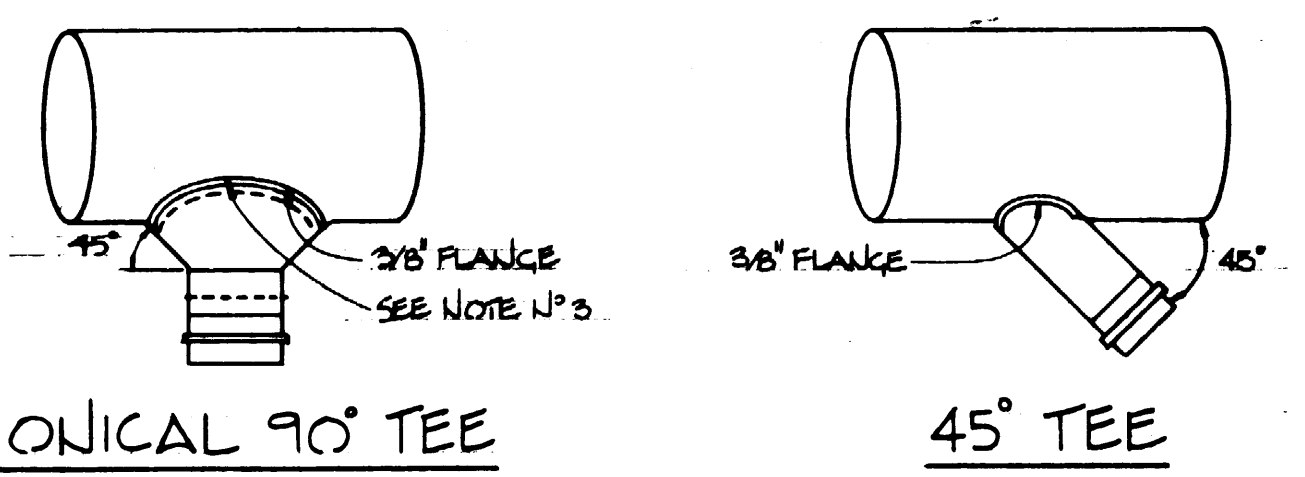
90° TEE

45°/90° TEE	
D	L
12"	12"
14"	15"
16"	14"
18"	15"
20"	16"
22"	17"
24"	18"
26"	19"
28"	20"
30"	21"

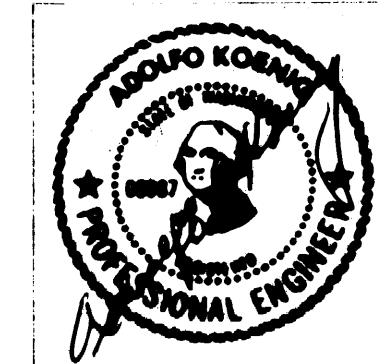
- NOTES**
- 1) USE SLICES INSTEAD OF ROUND-RECTANGULAR-ROUND WHERE D/D IS GREATER THAN 2/3.
  - 2) T/D = 1.0 UP TO 14" DIA. T = 1.5 FOR 16" DIA. & LARGER.
  - 3) USE INSTEAD OF 90° TEE WHERE TRUNK DUCT VELOCITY EXCEEDS 3000 FT/MIN. 20 GAGE PERFORATED METAL SOLID Baffle FLUSH W/ MAIN DUCT 1/2" HOLES ON 1 1/4" CENTERS DIAMETER OF CIRCLE TO FIT MAIN DUCT. 8/5 = DIAMETER OF MAIN DUCT.



**TYPICAL VAV TERMINAL BOX CONNECTIONS**  
NO SCALE

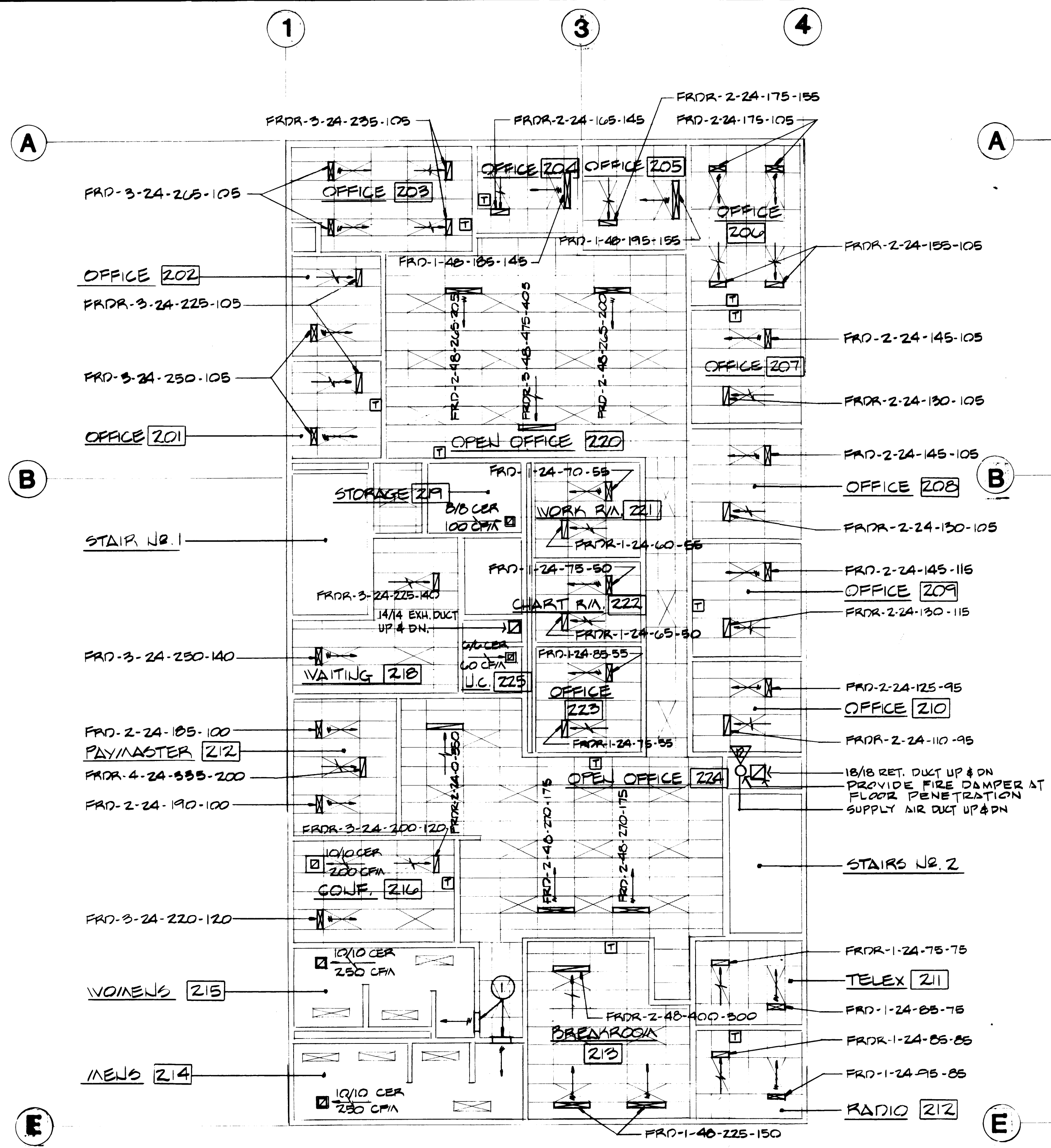


**HIGH VELOCITY DUCT DETAILS**  
NO SCALE

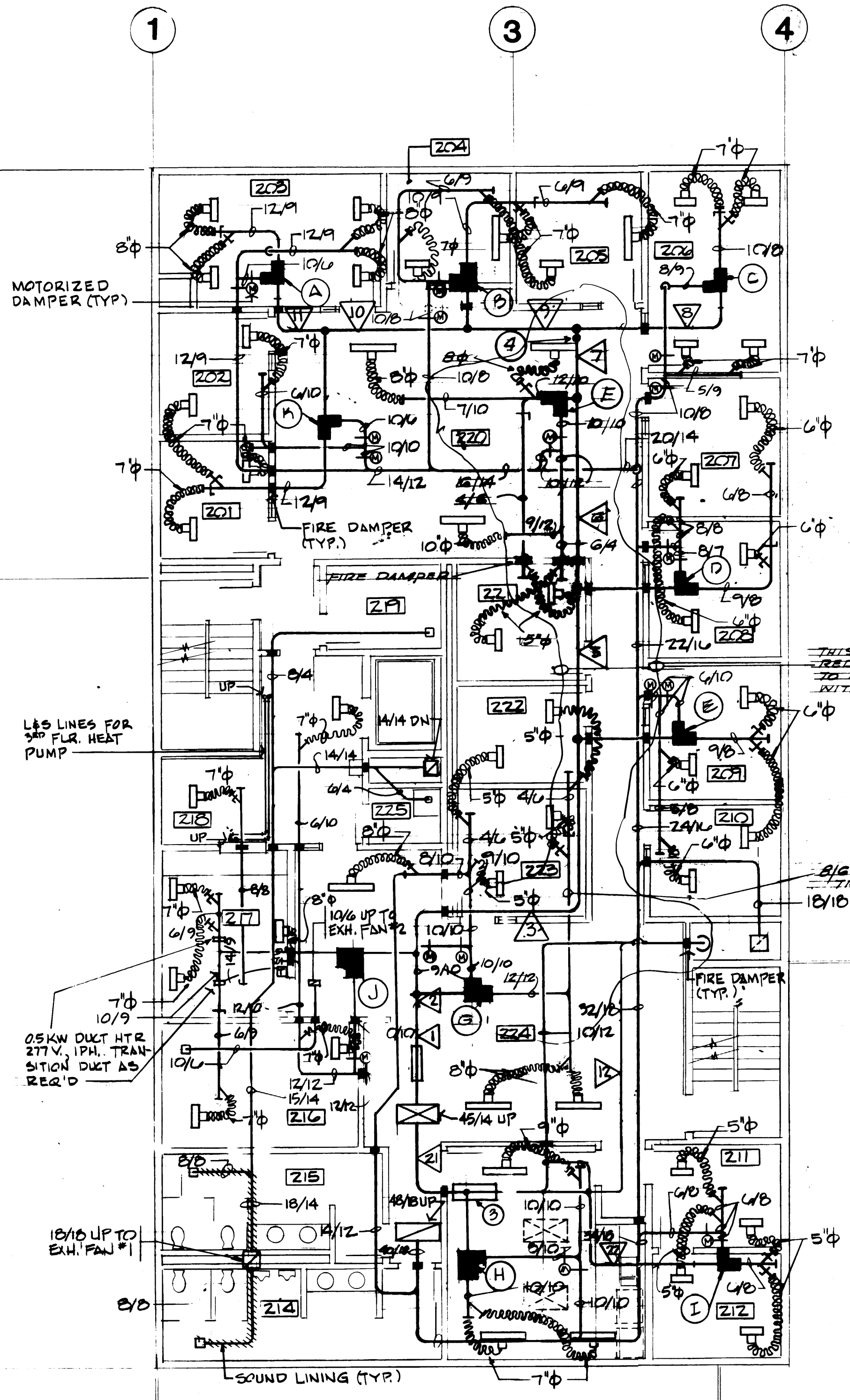


**PORT OF TACOMA**  
 TACOMA TERMINALS, INC.  
 MARINE SERVICES BUILDING  
 FIRST FLOOR CEILING PLAN - HVAC

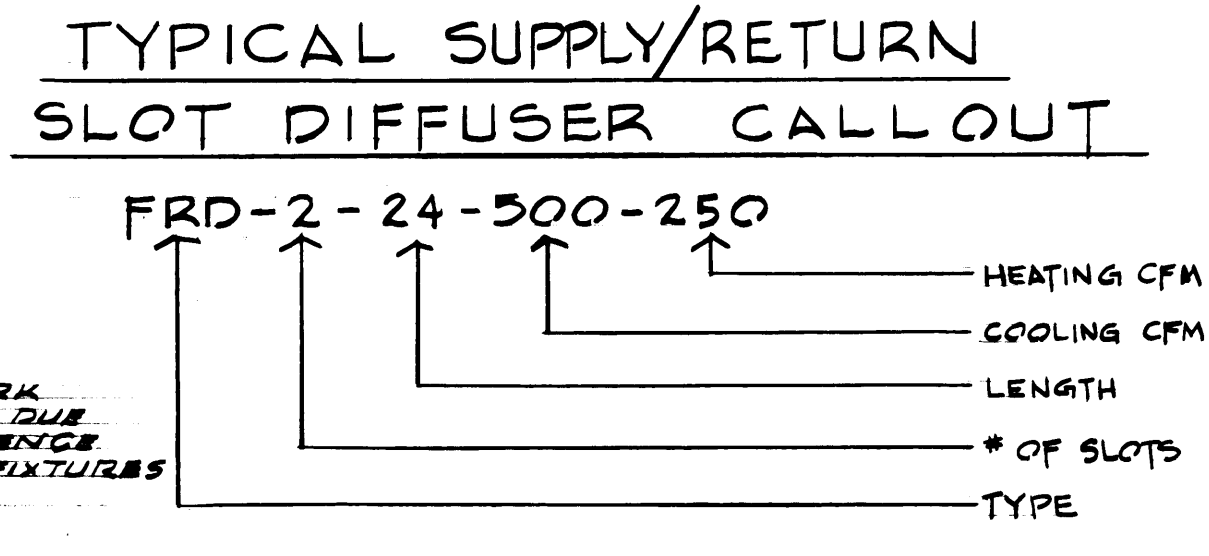
DRAWN	DATE	CHECKED	DATE	CHECKED	DATE	CONT. NO. 802	FIELD BOOK (S)	APPROVED	DATE	SCALE	DRAWING NO. EP-3893-23
								<i>[Signature]</i>	9/24/84		6-M11-6
REVISION	BY	APP.	DATE	REVISION	BY	APP.	DATE	REVISION	BY	APP.	DATE
1				1				1			



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

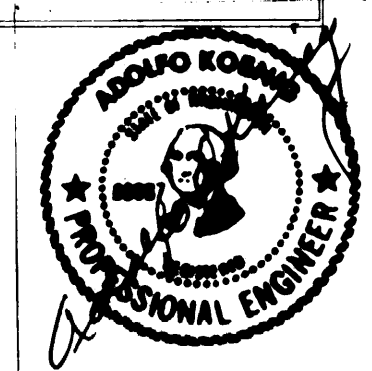


**SECOND FLOOR CEILING PLAN**  
SCALE: 1/8" = 1'-0"



**PLAN NOTES**

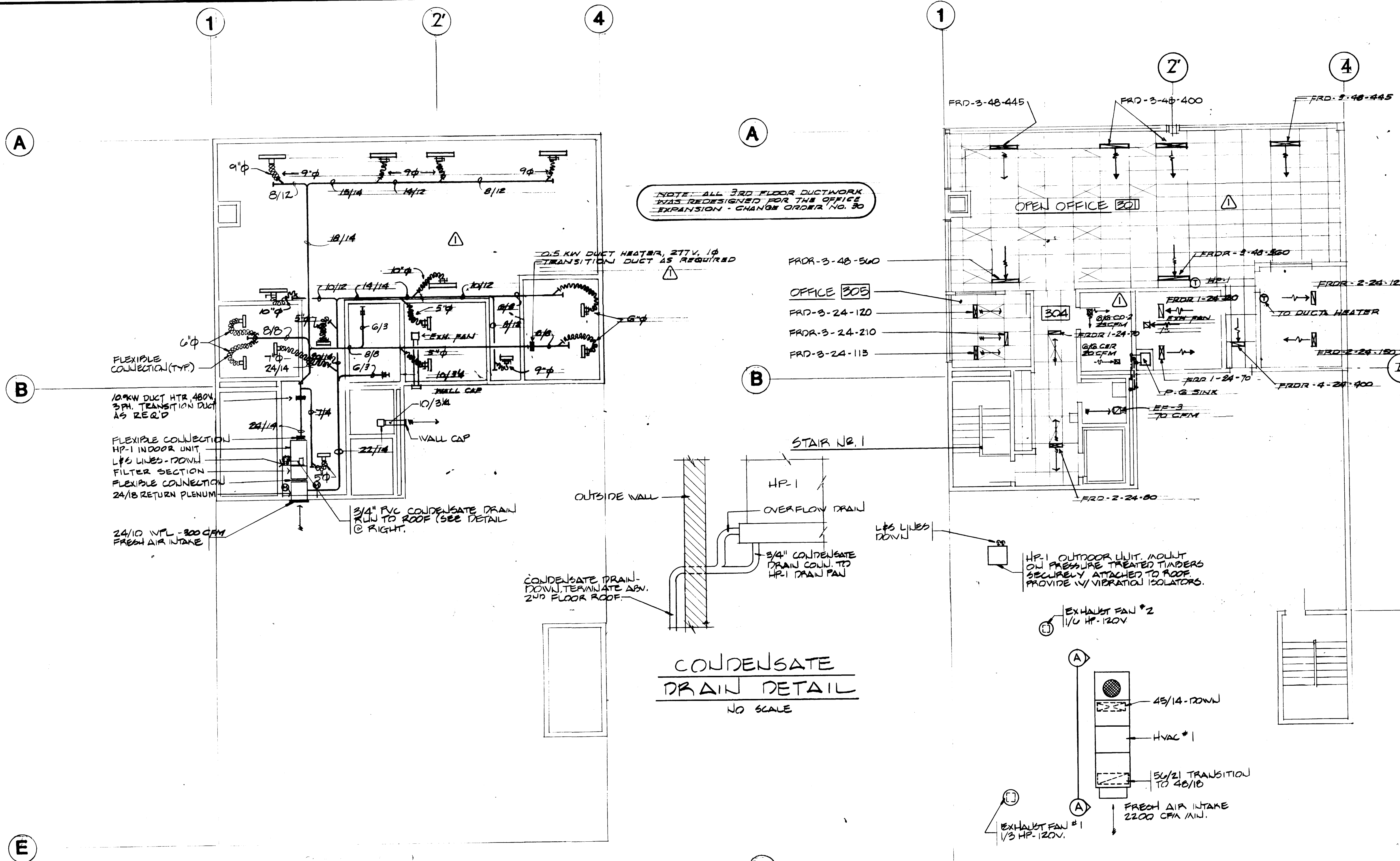
- ① 24/6 T.G. W/ FIRE DAMPER. MOUNT ABOVE DOOR. GRILLE ON BOTH SIDES OF WALL.
- ② SOUND ATTENUATOR - TEMPMASTER TYPE AC, 3 FT., DUCT DIAMETER - 16".
- ③ SOUND ATTENUATOR - TEMPMASTER TYPE AC, 4 FT., DUCT DIAMETER - 20".
- ④ CONTROL CONTRACTOR SHALL STATIC PRESSURE SENSOR AT THIS POINT AND SET AT 1.04" S.P.



DRAWN _____		DATE _____	
CHECKED _____		DATE _____	
CHECKED _____		DATE _____	
CHECKED _____		DATE _____	
CONT. NO. 602		SCALE _____	

**PORT OF TACOMA**  
**TACOMA TERMINALS, INC.**  
**MARINE SERVICES BUILDING**  
**SECOND FLOOR PLAN & CEILING PLAN - HVAC**

APPROVED	DATE	PROJECT MANAGER	DATE	DRAWING NO.	SCALE
<i>John T. Temp</i>	9/24/84	<i>W. J. S.</i>	9/5/84	EP-3883-23	8-M11-7
REVISION	BY	APP.	DATE	SHEET M11-7 OF 8	
REVISION TO AS BUILT	RJS	9/5/84			

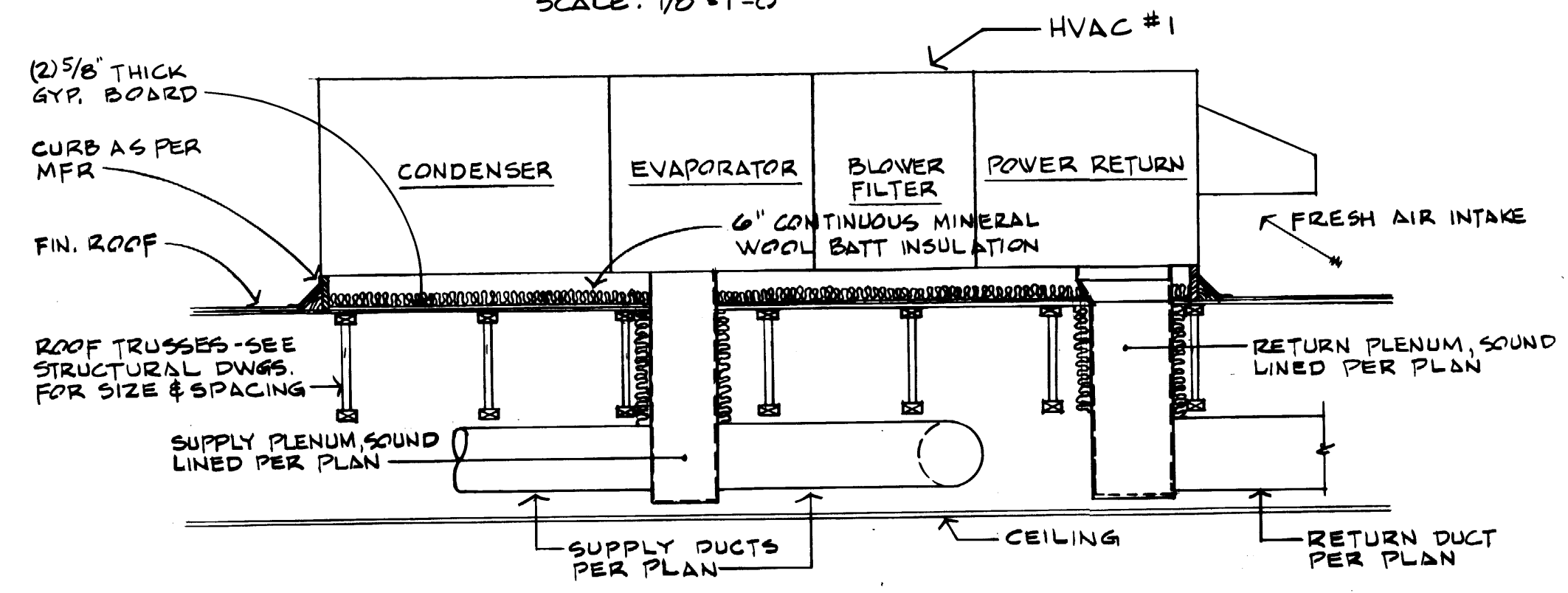


NOTE: ALL 3RD FLOOR DUCTWORK WAS REDESIGNED FOR THE OFFICE EXPANSION - CHANGE ORDER NO. 90

CONDENSATE DRAIN DETAIL  
NO SCALE

**THIRD FLOOR  
CEILING PLAN**

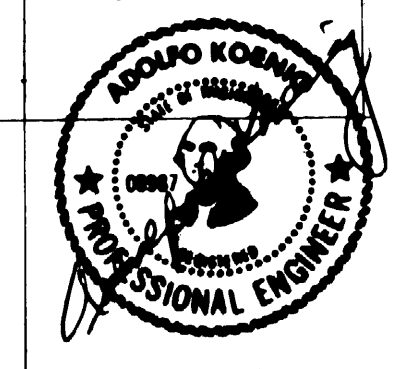
SCALE: 1/8" = 1'-0"



SECTION A-A  
NO SCALE

**THIRD FLOOR  
REFLECTED CEILING PLAN**

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



**PORT OF TACOMA**  
TACOMA TERMINALS, INC.  
MARINE SERVICES BUILDING  
THIRD FLOOR PLAN &  
CEILING PLAN - HVAC

FIELD BOOK (S)	SCALE
APPROVED: <i>[Signature]</i>	DATE: 9/24/84
PROJECT MANAGER: <i>[Signature]</i>	DATE: 11
CHIEF ENGINEER: <i>[Signature]</i>	DATE: 11
REVISION: REVISED TO AS-BUILT	BY: R.J.S. DATE: 9-5-89
MARK	REVISION

EP-5883-23  
6-M11-8  
SHEET M11-8 OF 8



SYSTEM LEGEND		
SYMBOL	DESCRIPTION	MOUNTING
	FIRE ALARM HORN	
	OUTDOOR FIRE ALARM HORN 101 #6	
	FIRE ALARM MANUAL PULL STATION	
	INDICATING LIGHT, WP (RED) SIMPLEX 4360 W/GUARD	
	FIXED TEMPERATURE HEAT DETECTOR 190°	CEILING
	RATE OF RISE HEAT DETECTOR	CEILING
	IONIZATION (SMOKE) DETECTOR	
	FIRE ALARM ANNUNCIATOR	
	DOOR HOLDER, 120 VOLT	COORDINATE W/ GENERAL CONTRACTOR
	INFRARED HEATER EMERSON * RDOM-48, 4KW, 480 VOLT	
	INFRARED HEATER EMERSON * RDO 35-305, 3KW, 480 VOLT METAL SHEATH ELEMENT	
	WALL HEATER, SINGER * 6751-0-WJA12 120V, 750 WATT	SURFACE MT. 12"
	WALL HEATER, EMERSON * AWH-3157, 277V, 1.5 KW, W/T-STAT	SURFACE MT.
	UNIT HEATER, EMERSON * MOH-03-7-MT1, 3KW, 277V, W/T-STAT	WALL MT.
	UNIT HEATER MARKEL * P3P5 110CA1, 1-DCS-253, 1-A 6176	WALL MT.

LEGEND		
SYMBOL	DESCRIPTION	MOUNTING
	BRANCH CIRCUIT HOME RUN TO PANEL BOARD.	
	CROSS LINES INDICATE NUMBER OF (*12 MIN.) CONDUCTORS IN ADDITION TO GRND. CONDUCTOR SIZE CONDUIT PER NEC	
	CONDUIT TURNED UP CONDUIT TURNED DOWN	
	CONDUIT & WIRING CONCEALED IN OR UNDER FLOOR	
	CONDUIT EXPOSED	
	CONDUIT & WIRING CONCEALED IN WALLS & CEILING	
	CONDUIT STUBBED-OUT AND CAPPED	
	MAIN DISTRIBUTION PANEL OR SWITCHBOARD	
	LIGHTING OR POWER PANEL	
	SWITCHES, SINGLE POLE, 3 WAY, 277 VOLT	+48"
	SWITCH W/ PILOT LIGHT, 277 VOLT	
	DUPLEX RECEPTACLE, 120V, 15 AMP	+24" SHOP AREA +12" OFFICE AREA
	20AMP RECEPTACLE	SEE SPECIFICATION
	GROUND FAULT RECEPTACLE	SEE SPEC.
	FLOOR BOX WITH RECEPTACLE SURFACE FITTING WALKER 800 SERIES W/ BRASS COVER PLATE & CARPET RING	FLOOR
	480V, WELDING OUTLET, 30 AMP, PYLE NATIONAL #	+48"
	240V OUTLET, 20 AMP 1 PHASE	+48"
	50 AMP AIR COMPRESSOR OUTLET 480V 3 PHASE	
	30 AMP 120V OUTLET	+24"
	WIRE MOLD 2000 W/ RECEPTACLE 10" ON CENTER	
	FLOOR BOX FOR TELEPHONE/COMPUTER DATA SERVICE WALKER 800 SERIES W/ BRASS COVER PLATE & CARPET RING	FLOOR
	TELEPHONE OUTLET W/ 3/4" C. STUB UP TO CEILING SPACE OR AS SHOWN.	
	COMPUTER DATA OUTLET W/ 3/4" C. STUB UP TO CEILING SPACE OR AS SHOWN.	
	3 POLE UNFUSED DISCONNECT SWITCH	
	FUSED DISCONNECT SWITCH FUSE AS REQUIRED BY MANUFACTURER	
	COMBINATION MOTOR CONTROLLER	
	MOTOR CONNECTION	
	WEATHER PROOF	
	EXPLOSION PROOF	
	MECHANICAL CONTRACTOR	
	ELECTRICAL CONTRACTOR	
	JUNCTION BOX W/ COVER PLATE.	
	EQUIPMENT SYMBOL - MECHANICAL EQUIPMENT	
	MACHINE TOOL & SHOP EQUIPMENT	
	START-STOP PUSHBUTTON CONTROL STATION	+48"
	220V 30AMP OUTLET	
	FRACTIONAL HORSEPOWER MANUAL STARTERS W/ MELTING ALLOY	

LIGHTING FIXTURE SCHEDULE			
SYMBOL	DESCRIPTION	LAMP	MOUNTING
A	HI-TEK TH 400 SALW-277-SF UPH-UPC	400 WATT HPS	SEE DETAIL DWG. 16/2
B	APPLETON *ASB-1550	150A19	SURFACE +48"
D	PRESCOLITE WB-2	100 WATT A-19	SURFACE CEILING
E	DUAL-LITE ALC-X-36-2-277V-ACON	-	SURFACE
F2a	LITHONIA-2GP 240 A12.125-GLR-SL-ES-277V	2-F40 LW	GWB CEILING
F2	LITHONIA-2GP 240 A12.125-GLR-SL-ES-277V	2-F40 LW	T-BAR
F3	LITHONIA-2GP 340 A12.125-GLR-SL-ES-277V	3-F40 LW	T-BAR
F4	LITHONIA-2GP 440 A12.125-GLR-SL-ES-277V	4-F40 LW	T-BAR
FA	LITHONIA-M240 MA 12.125-GLR-SL-ES-277V	2-F40 LW	SURFACE
FB	LITHONIA-AF 240-GLR-ES-277V	2-F40 LW	PENDENT
FC	LITHONIA-AF 296-GLR-ES-277V	2-F40 LW	PENDENT
FD	LITHONIA-DL-240A-277V-CW-R W/ BATTERY PAD	2-F40 LW	SURFACE
FE	LITHONIA-DD-240A-277V-CW-R	2-F40 LW	SURFACE
FX	MORRIS KURTZON x12-B-40-L	2-F40 T12	SURFACE
FT	LITHONIA-GP 240 A12.125-GLR-SL-ES-277V		GWB CEILING
FS	LITHONIA-2PMGB 440-32-277VOLT, ES	4-F40 LW	T-BAR
G	HUBBELL PVL-01505-110, 480 VOLT	150 WATT HPS	SURFACE WALL
H	DEVINE B422-250 HPS-LX1-277V	250 WATT HPS	SURFACE CEILING
M	HI-TEK 10 HA A15150RS C73T 24-277V	150 WATT HPS	SURFACE CEILING
W	HI-TEK *TWP 1005, 480 VOLT	100 W HPS	SURFACE WALL
FI	MORRIS KURTZON *SUV2440 W/ POLYCARBONATE LENS	4-F40 LW	SURFACE MTD IN METAL BRACKET FURNISHED BY GENERAL CONTRACTOR
TL	HUBBELL *QL503 W/ WIRE GUARD, PROVIDE LIGHTING SWITCH PER DETAIL DWG.	500 WATT QUARTE	SEE DETAIL DWG. 05/13.1
TS	LAKE SHORE MARKERS R-LB-4	2-60A	SURFACE
P	PRESCOLITE CF-2	100 WATT A19	CEILING SURFACE
EX	DUAL-LITE ALC-X-36-277V		WALL MOUNTED
X	DUAL LITE X-2100 4X-277V		WALL MOUNTED

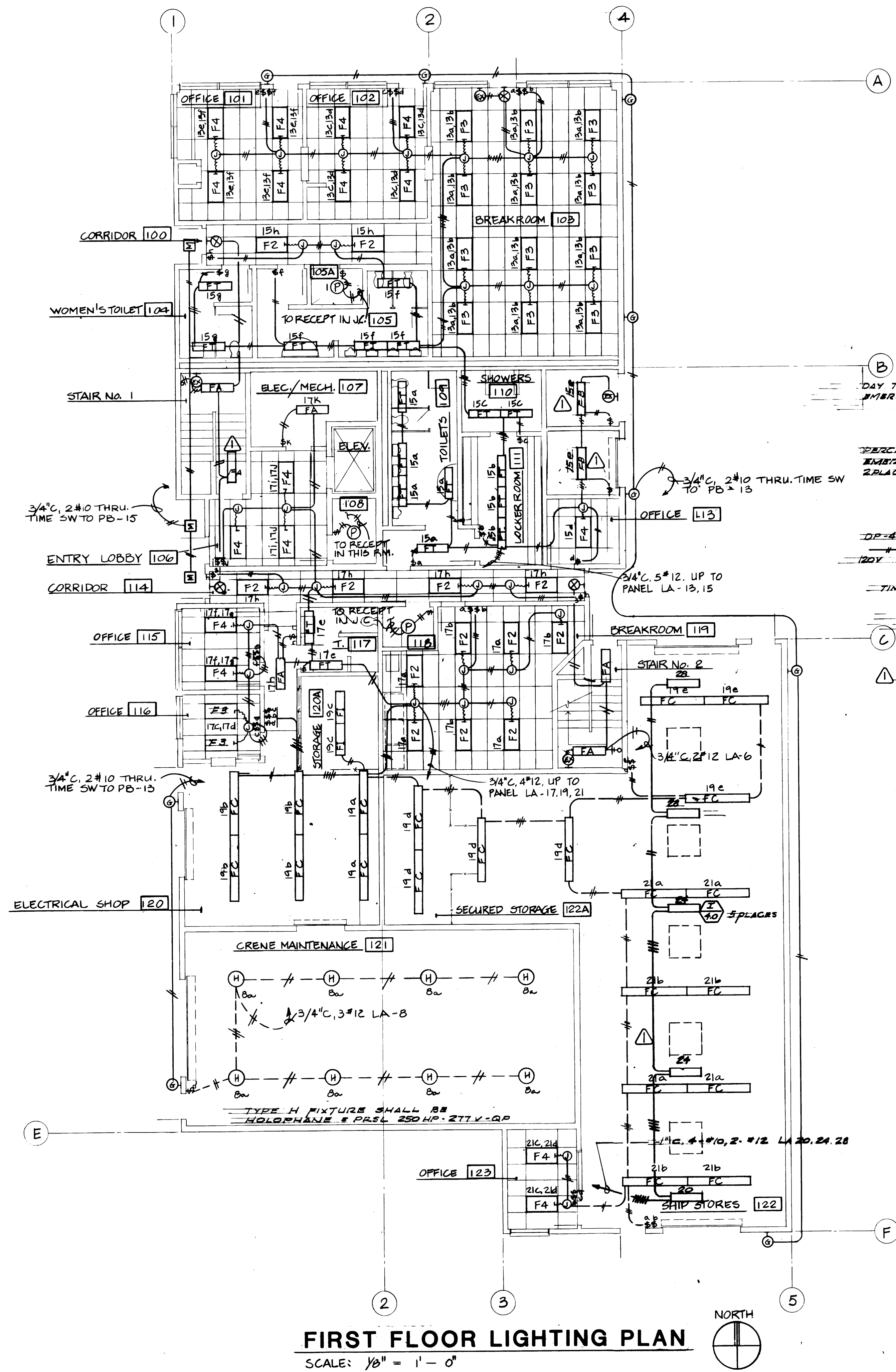
NOTE: NOT ALL OF THE LIGHTING FIXTURES LISTED IN THE ABOVE SCHEDULE WERE USED ON THIS PROJECT



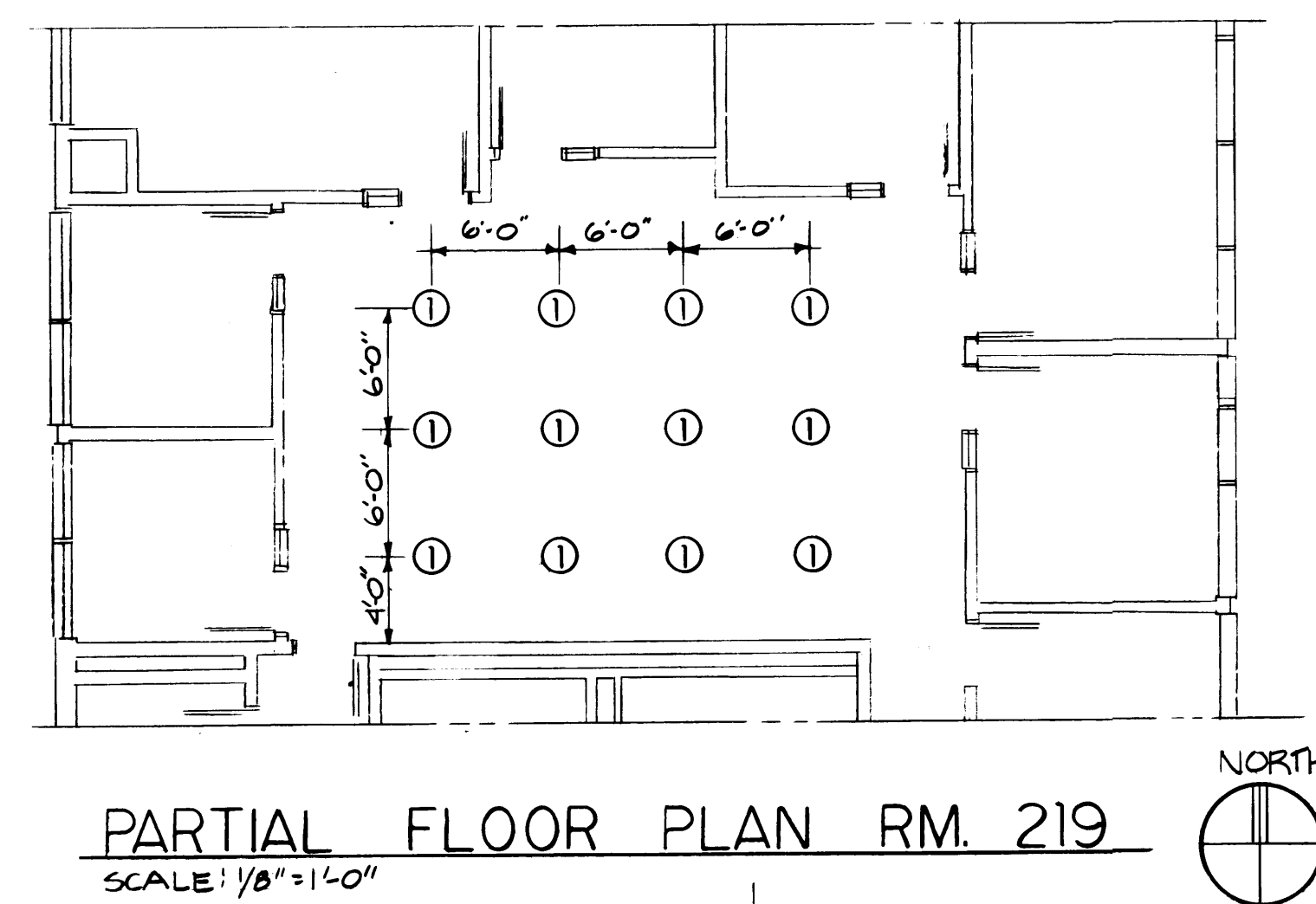
DRAWN _____		DATE _____	
CHECKED _____		DATE _____	
CHECKED _____		DATE _____	
CONT. NO. _____		FIELD BOOK (S) _____	
APPROVED _____		DATE 9/24/02	
PROJECT MANAGER _____		DATE _____	
CHIEF ENGINEER _____		DATE _____	
SCALE NONE		SHEET E0-1 OF 1	

**McGRANAHAN, MESSENGER ASSOCIATES**  
ARCHITECTURE / PLANNING / INTERIORS  
MEMBER AMERICAN INSTITUTE OF ARCHITECTS • 180 FANCIETT BUREAU BLDG. TACOMA, WA 98402 • (253) 383-3084

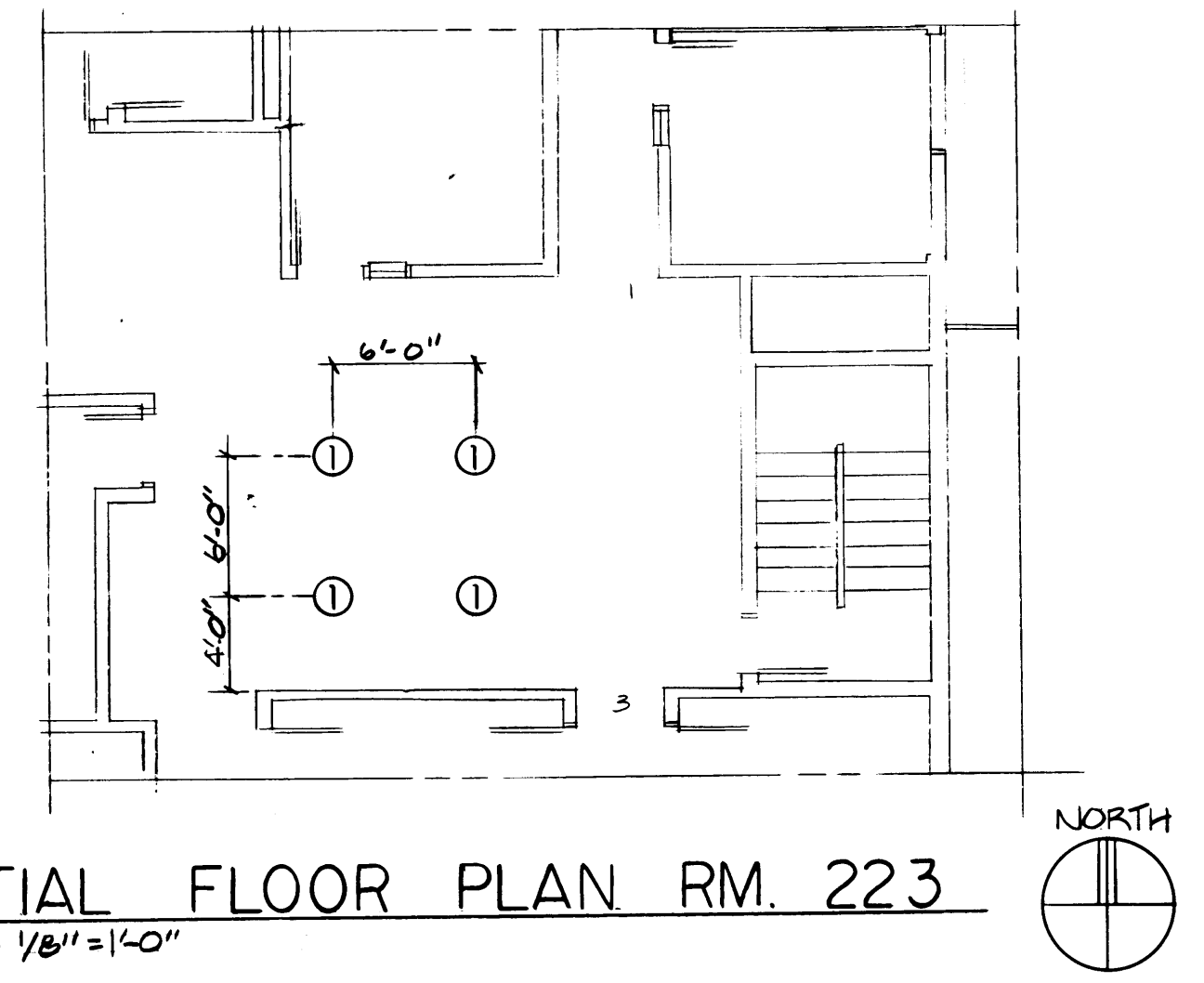
REVISION	BY	APP.	DATE
1	REVISOR		9/24/02



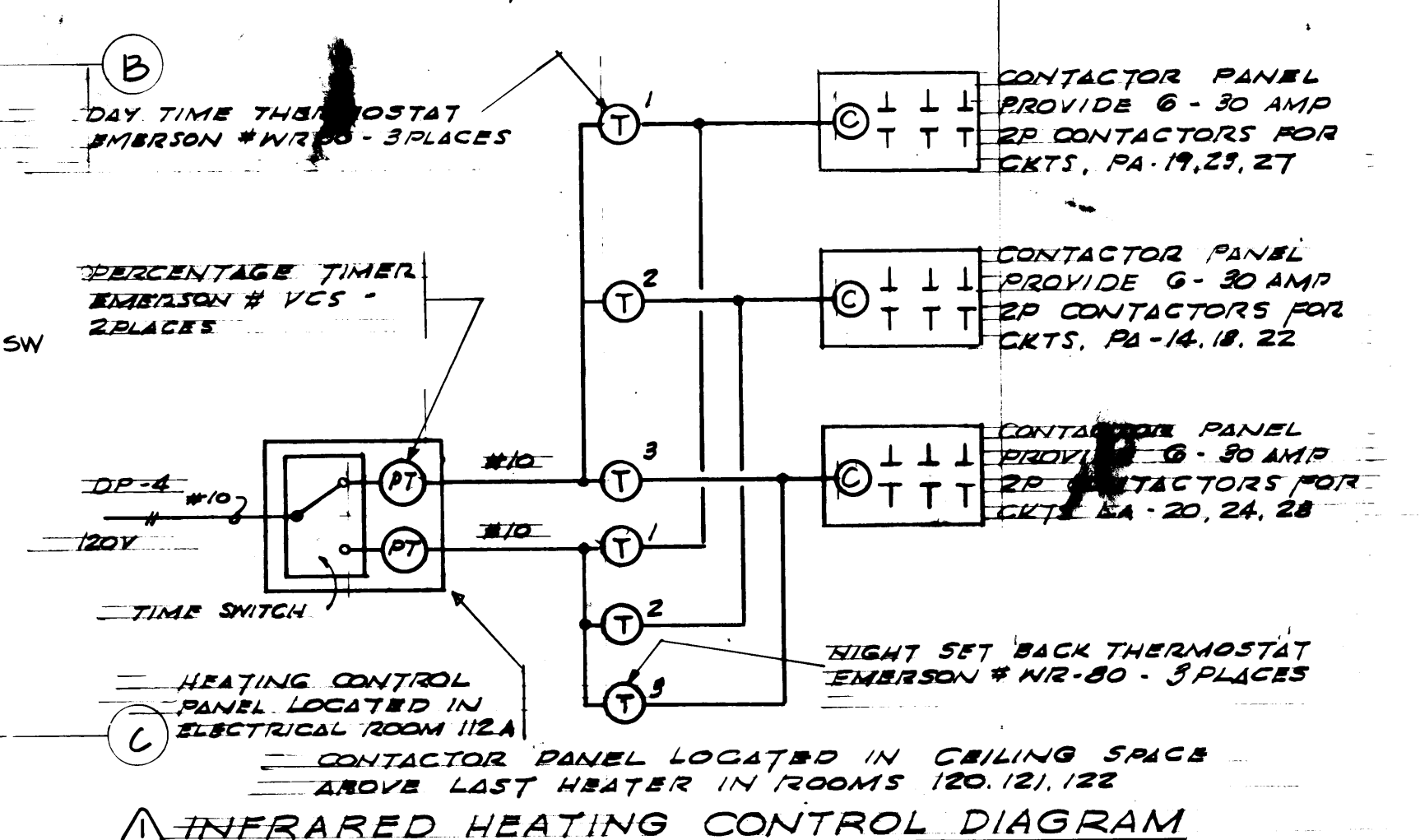
**FIRST FLOOR LIGHTING PLAN**  
SCALE: 1/8" = 1'-0"



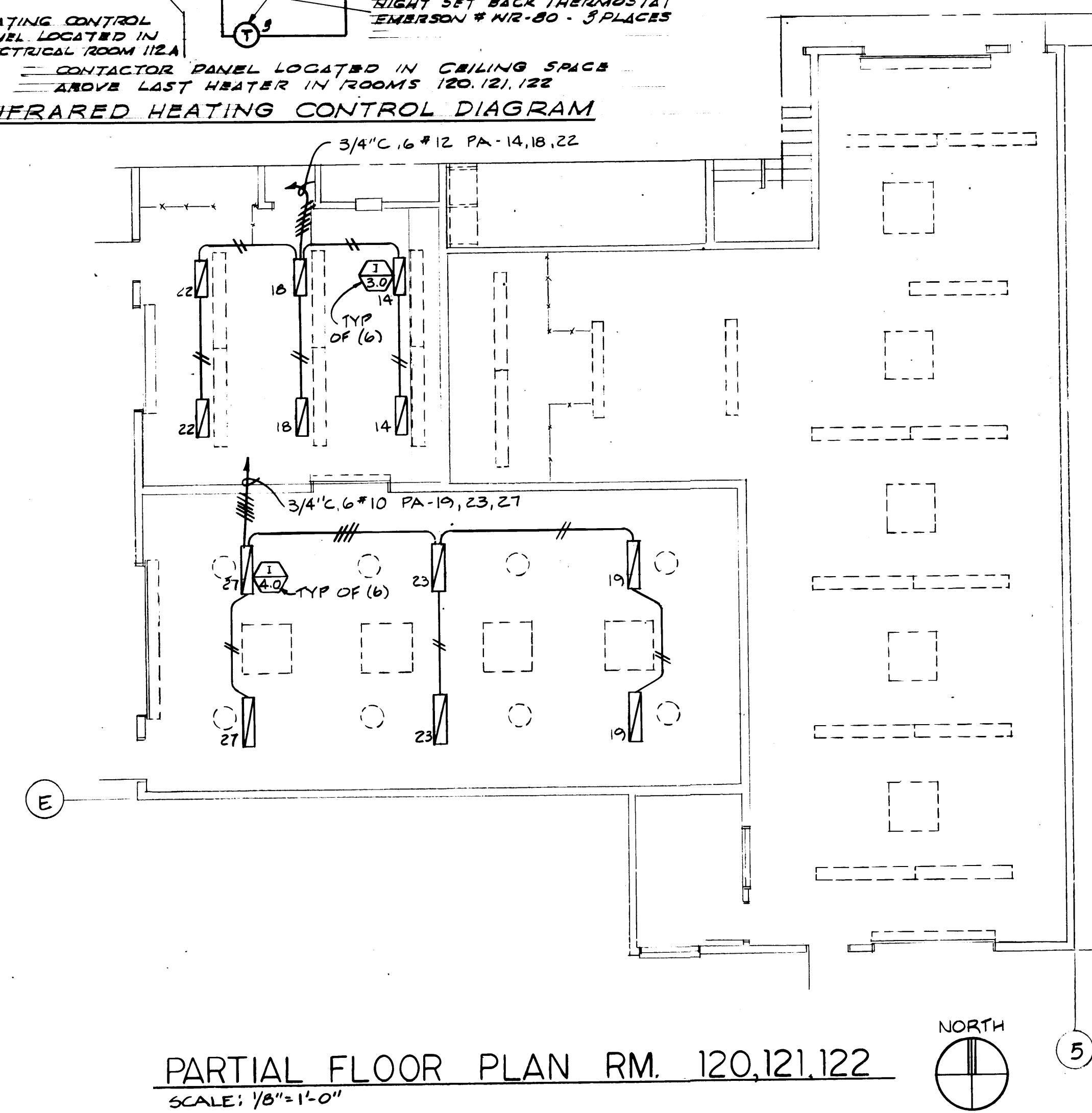
**PARTIAL FLOOR PLAN RM. 219**  
SCALE: 1/8" = 1'-0"



**PARTIAL FLOOR PLAN RM. 223**  
SCALE: 1/8" = 1'-0"



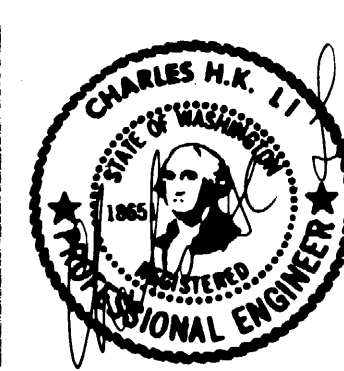
**INFRARED HEATING CONTROL DIAGRAM**



**PARTIAL FLOOR PLAN RM. 120, 121, 122**  
SCALE: 1/8" = 1'-0"

- FLOOR BOXES & NOTES**
- ① PROVIDE 1 DUPLEX FLOOR OUTLET (SEE NOTE ①)
  - ② CAT FLOOR OUTLET (SEE NOTE ②)
  - ③ TELEPHONE FLOOR OUTLET (SEE NOTE ③)

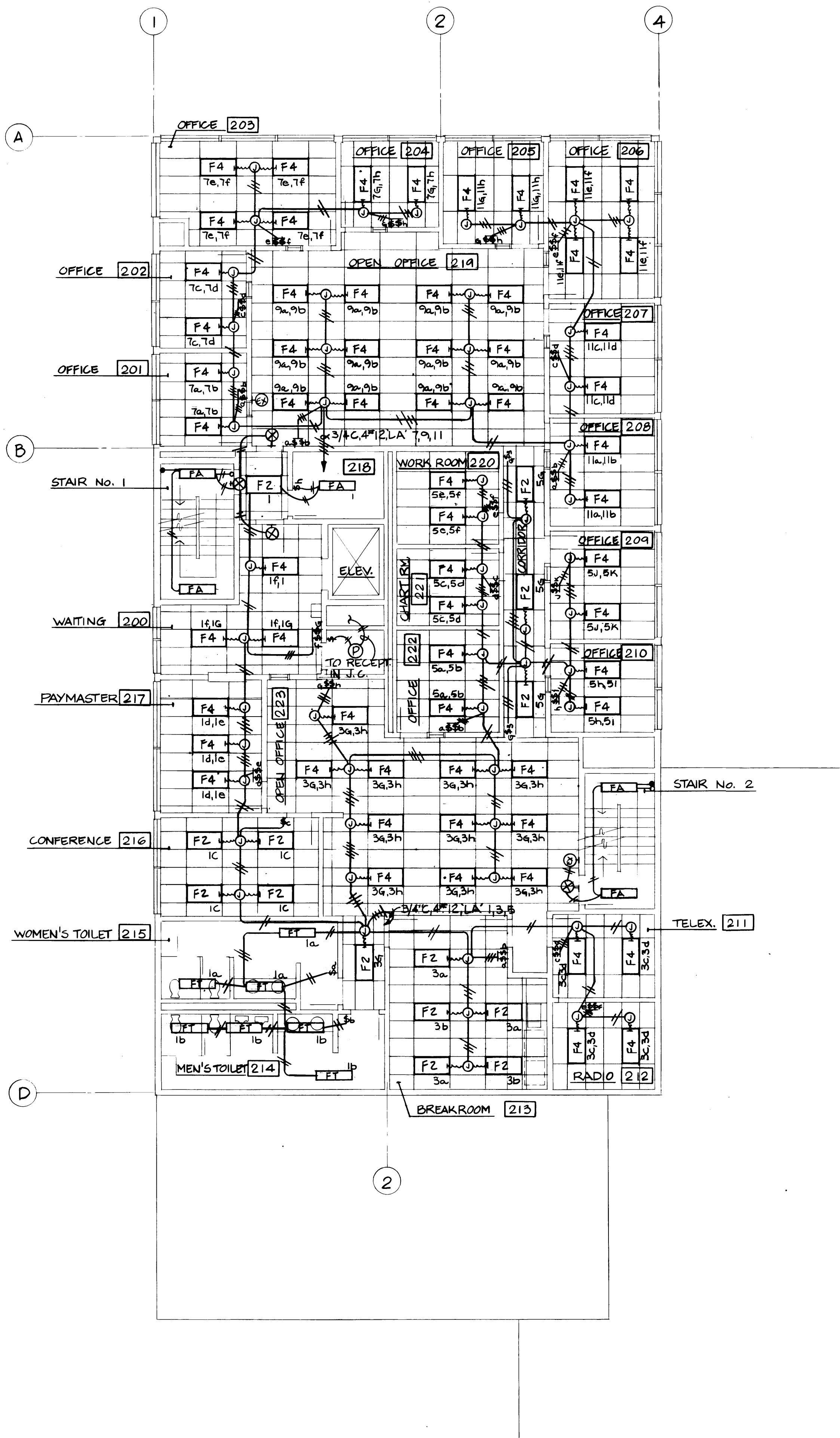
- NOTES**
- ① PROVIDE CONDUIT & WIRING FROM DUPLEX FLOOR OUTLET (FLOOR J-BOX) TO PANEL 'RB' FOR ROOM 219 AND TO PANEL 'RA' FOR ROOM 223 MAXIMUM OF 2 FLOOR BOXES PER CIRCUIT AND HOME RUN. (3/4" C, 2 #12, 1 #12 GROUND).
  - ② PROVIDE 3/4" CONDUIT FROM CAT FLOOR BOX (J-BOX) TO CEILING SPACE. GROUP CONDUITS IN ONE SPACE.
  - ③ PROVIDE CONDUIT FROM TELEPHONE FLOOR BOX (J-BOX) TO TELEPHONE CABINET MAXIMUM 2 TELEPHONE FLOOR BOXES PER 1" C HOME RUN.
  - ④ ALL DRY TYPE TRANSFORMERS SHALL BE EQUIPPED WITH ELECTROSTATIC SHIELDS.



DRAWN _____		DATE _____		<b>PORT OF TACOMA</b> <b>TACOMA TERMINALS, INC.</b> <b>MARINE SERVICES BUILDING</b> <b>FIRST FLOOR LIGHTING PLAN</b>	
CHECKED _____		DATE _____			
CHECKED _____		DATE _____			
DATE _____		CONT. NO. 802			
FIELD BOOK (S) _____		SCALE _____		DRAWING NO. EP-3893-23	
APPROVED _____		DATE 9/24/84		6-E11-1	
PROJECT MANAGER _____		DATE _____		SHEET E11-1 OF 6	
CHIEF ENGINEER _____		DATE _____			

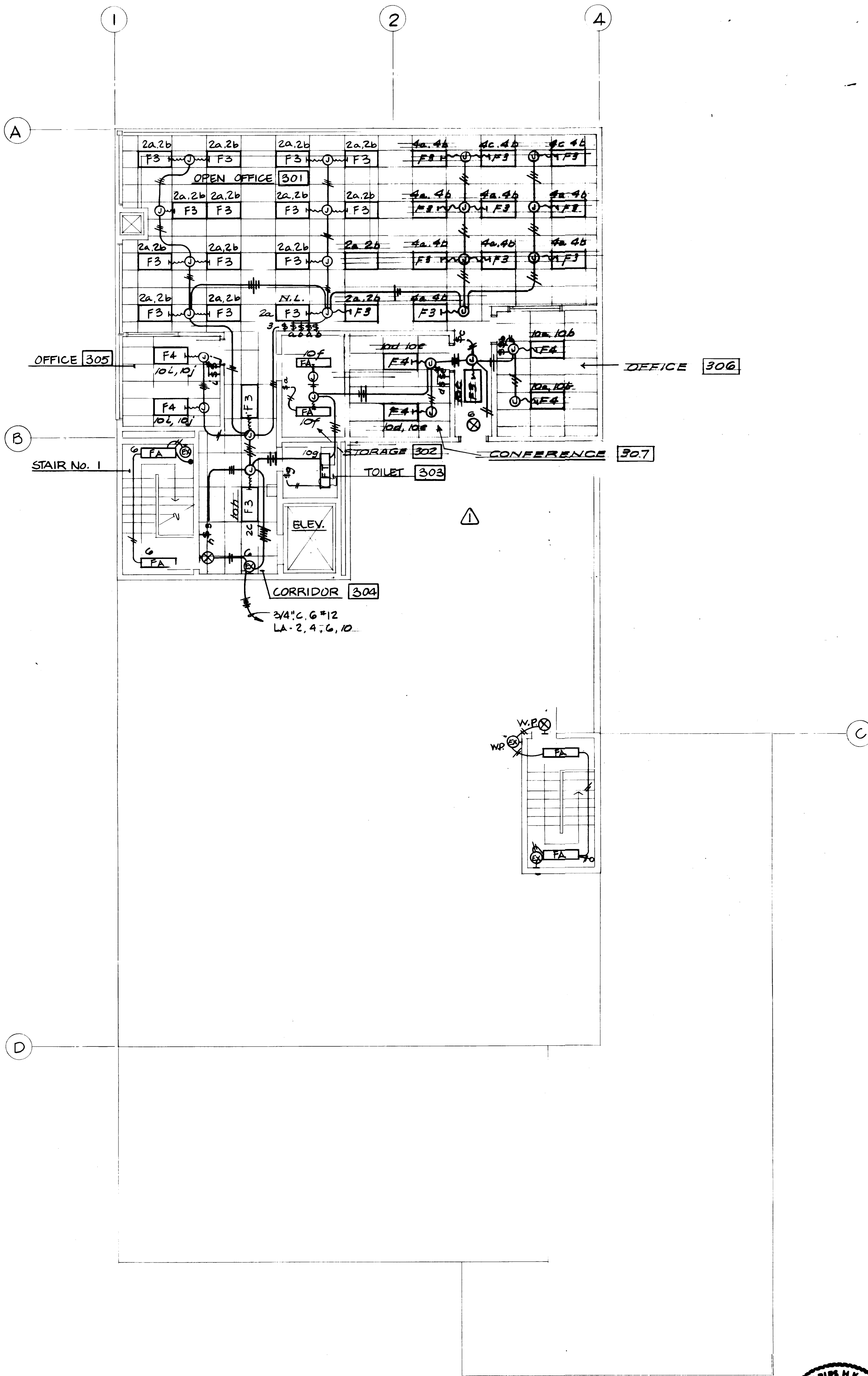
REVISION	BY	APP.	DATE
REVISIED TO AS BUILT	RJS		9.9.85





**SECOND FLOOR LIGHTING PLAN**

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



**THIRD FLOOR LIGHTING PLAN**

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



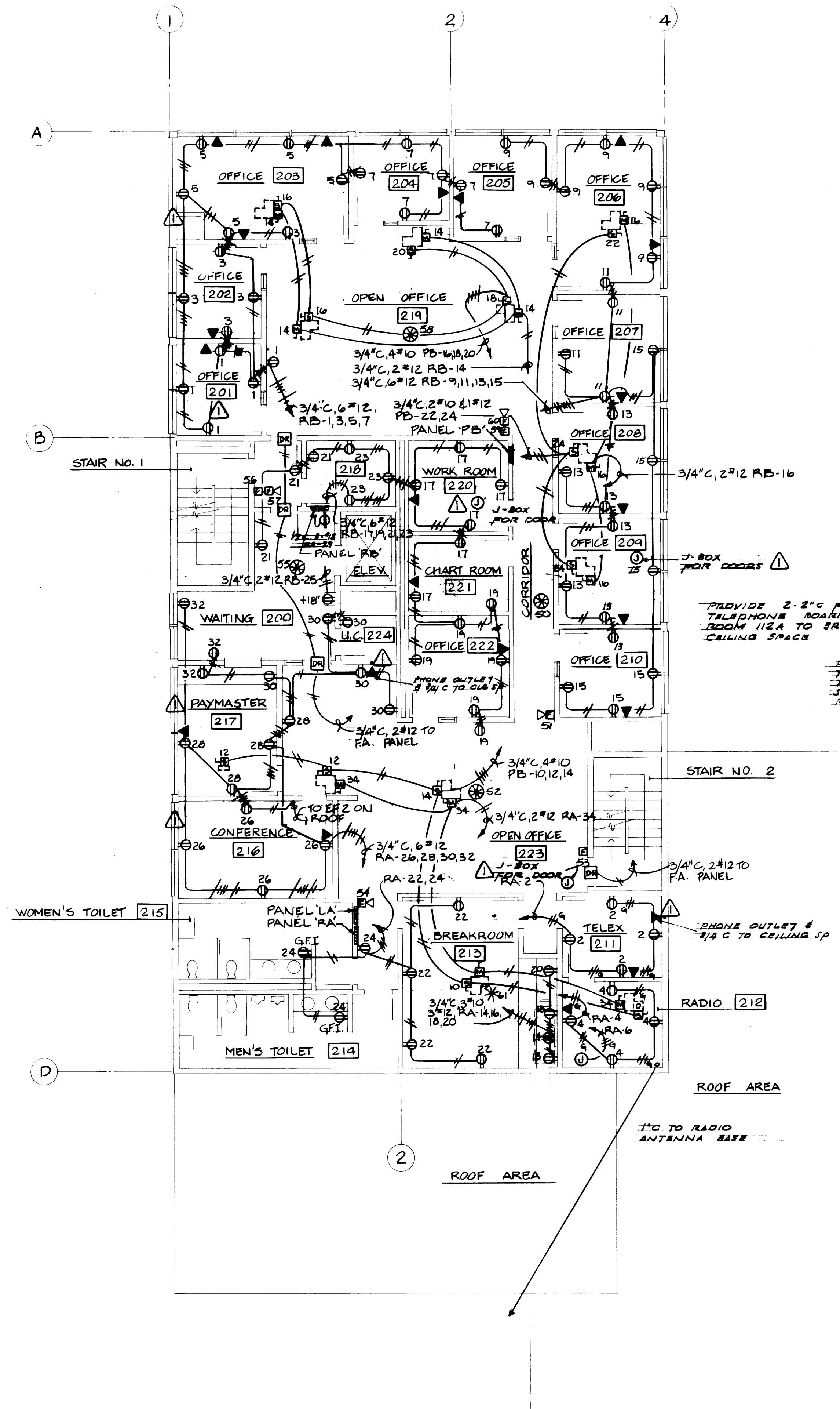
DRAWN _____		<b>PORT OF TACOMA</b> TACOMA TERMINALS, INC. MARINE SERVICES BUILDING SECOND & THIRD FLOOR LIGHTING PLANS CONT. NO. 602
DATE _____		
CHECKED _____	DATE _____	
CHECKED _____	DATE _____	
CHECKED _____	DATE _____	
CHECKED _____	DATE _____	

MARK	REVISION	BY	APP.	DATE
Δ	REVISED TO AS BUILT	R.J.S.		9.9.85

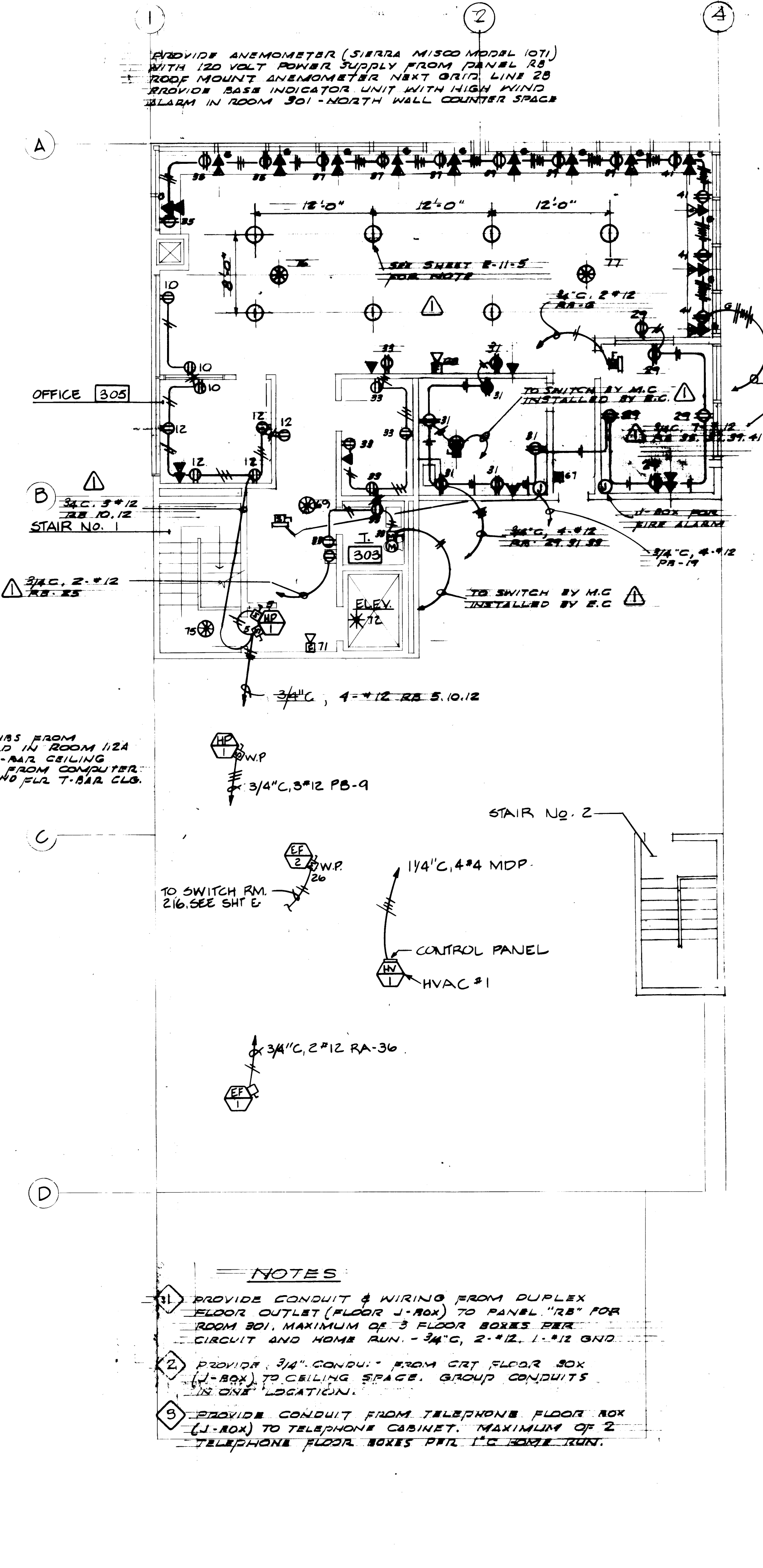
APPROVED _____	DATE 9/24/84	DRAWING NO. EP-3893-23
PROJECT MANAGER	DATE	6-E11-2
CHIEF ENGINEER	DATE	E11-2 OF 8







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



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

**PANEL SCHEDULE**

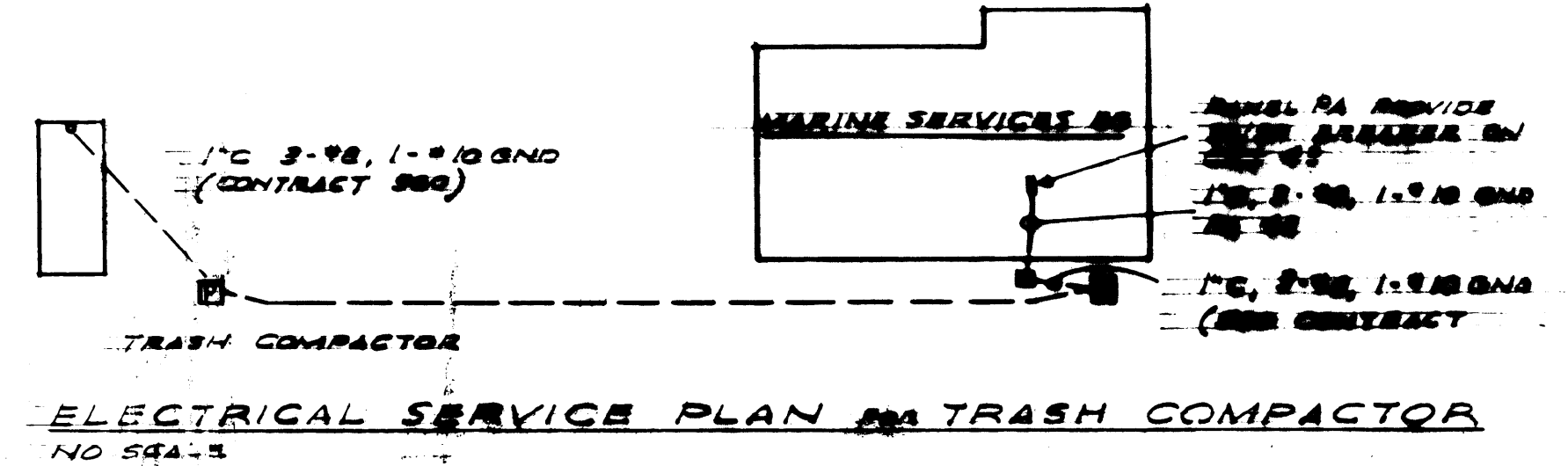
NO.	DP	LOCATION SERVING	KVA	TRIP AMPS	TRIP AMPS	KVA	LOAD DESCRIPTION	CT NO.
1		LIGHTING TIME SW. TRANSFORMER	1.0	20AP	40P	7.0	VAV HEAT	2
3			10.0	30AP	30P	6.0		4
5						5.0		6
7						6.0		8
9		HP-1- OUTDOOR	7.3	20AP		5.5		10
11		OUTDOOR LIGHTING	1.4	20AP		5.5		12
13		SOFFIT LIGHTING	3	22AP		5.0		14
15						4.0		16
17						5.0		18
19						4.0		20
21		DUCT HEATER	7.5	22AP		2.0		22
23						2.0		24
25		SPARE				2.0		26
27						1.0		28
29								30
31								32
33								34
35								36
37								38
39		H.W. TANK	24.0	22AP	20P	20.0	ELEVATOR	40
41								42

REMARKS: CONNECTED LOAD 01 KVA 98 AMPS  
DEMAND LOAD KVA

**PANEL SCHEDULE**

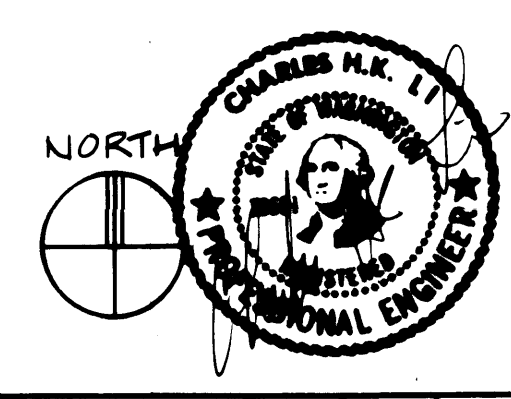
NO.	DP	LOCATION SERVING	KVA	TRIP AMPS	TRIP AMPS	KVA	LOAD DESCRIPTION	CT NO.
1		FIRE ALARM	5	20AP	20P	2	RECEPT.	2
3		SECURITY	5	20AP	20P	2	SPARE	4
5		TELEPHONE CABINET	5	20AP	20P	2	SPARE	6
7								8
9		PANEL 'RC'	22.85	20AP	20P	13.84	PANEL 'RA'	10
11								12
13		PANEL 'RD'	7.3	20AP	20P	5.94	PANEL 'RB'	14
15								16
17								18
19								20
21								22
23								24
25								26
27								28
29								30
31								32
33								34
35								36
37								38
39								40
41								42

REMARKS: CONNECTED LOAD 82 KVA 227 AMPS  
DEMAND LOAD 46 KVA 120 AMPS



**ELECTRICAL SERVICE PLAN FOR TRASH COMPACTOR**  
NO 58A-5

- NOTES**
- PROVIDE CONDUIT & WIRING FROM DUPLEX FLOOR OUTLET (FLOOR J-BOX) TO PANEL 'RB' FOR ROOM 301. MAXIMUM OF 3 FLOOR BOXES PER CIRCUIT AND HOME RUN - 3/4" C, 2 #12, 1 #12 GND
  - PROVIDE 3/4" CONDUIT FROM CRT FLOOR BOX (J-BOX) TO CEILING SPACE. GROUP CONDUITS IN ONE LOCATION.
  - PROVIDE CONDUIT FROM TELEPHONE FLOOR BOX (J-BOX) TO TELEPHONE CABINET. MAXIMUM OF 2 TELEPHONE FLOOR BOXES PER 1" C SOURCE RUN.



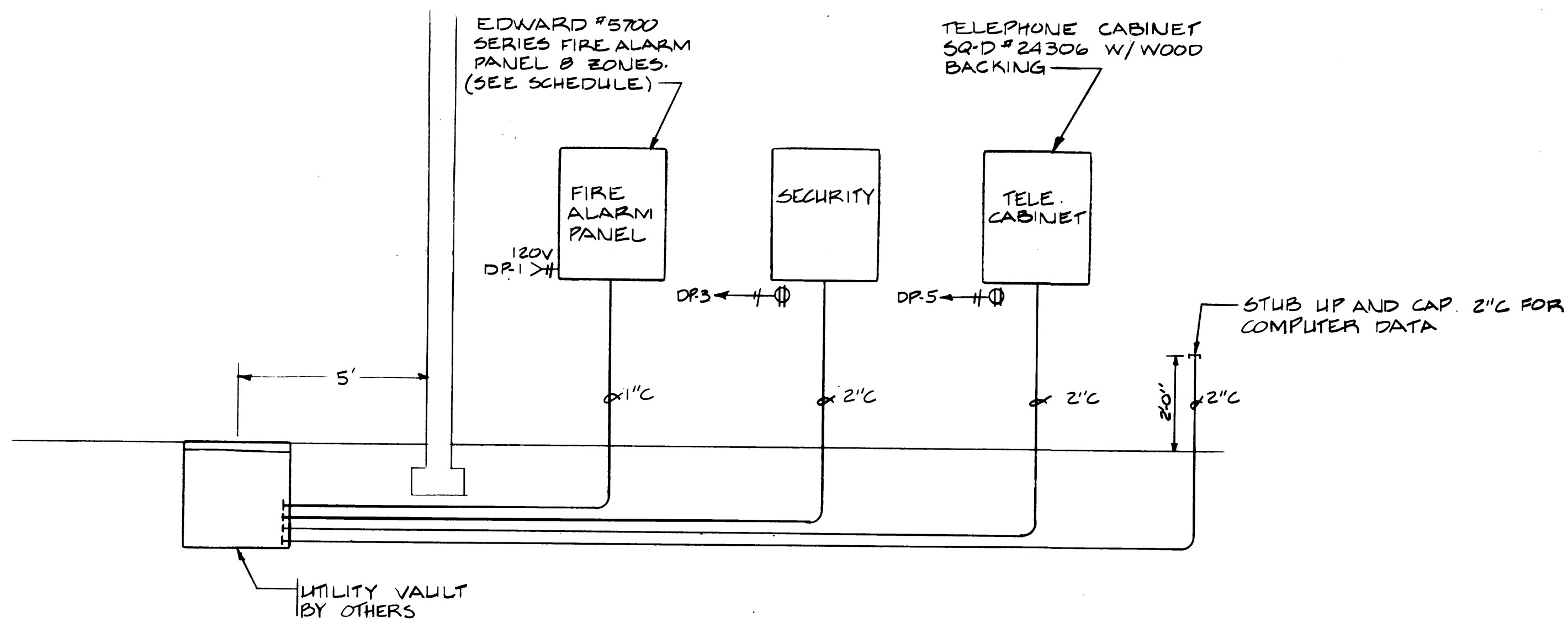
**PORT OF TACOMA**  
TACOMA TERMINALS, INC.  
**MARINE SERVICES BUILDING**  
SECOND & THIRD FLOOR  
POWER PLANS

CONTRACT NO. 582

APPROVED: [Signature] DATE: 9/24/84  
DRAWN: [Signature] DATE: 9/24/84

SCALE: DRAWING NO. EP-3893-23  
6-E11-4  
SHEET E11-4 OF 8

MARK	REVISION	BY	APP.	DATE
▲	REVISED TO AS-BUILT	R.J.S.		9/10/84



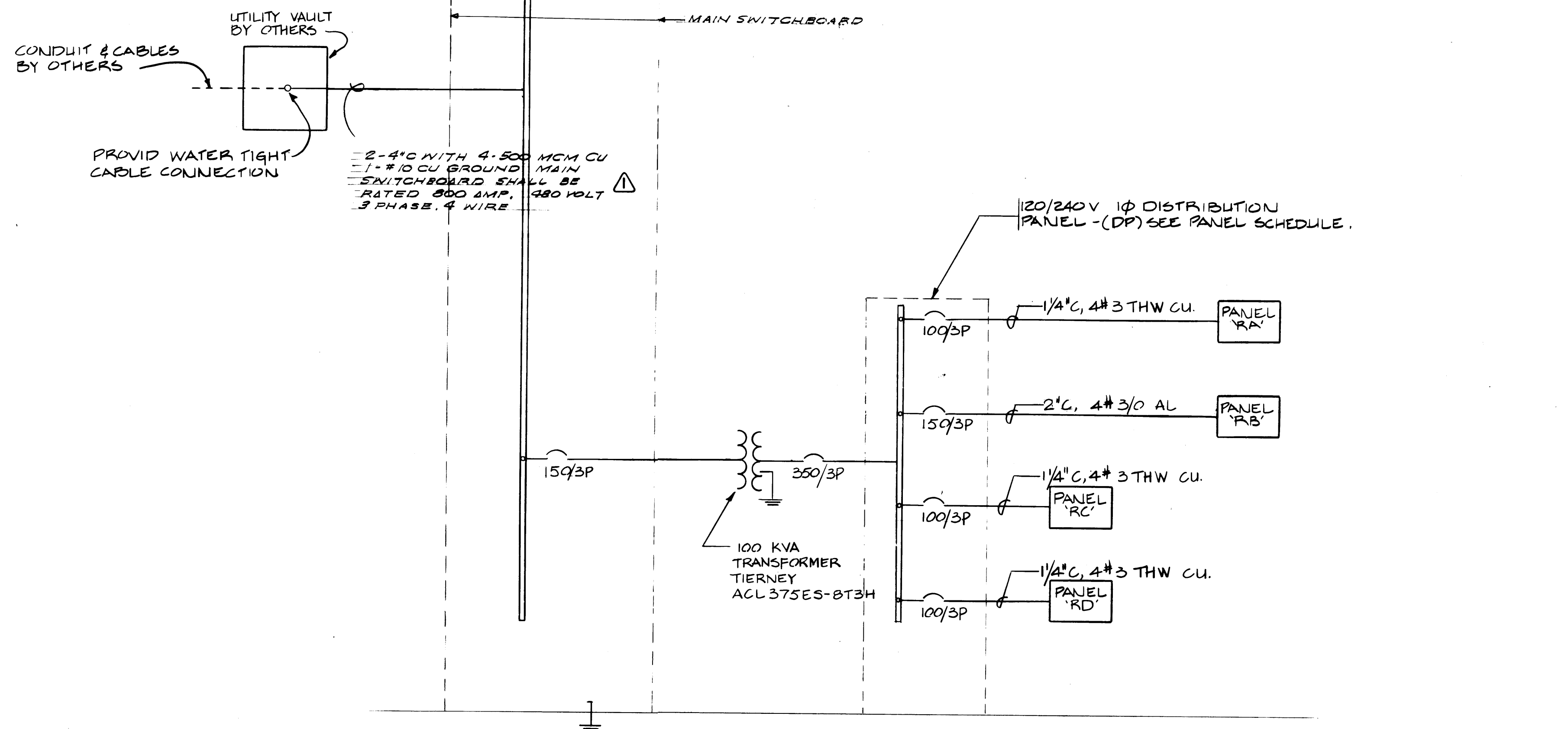
SYSTEM RISER DIAGRAM  
NOT TO SCALE

FIRE ALARM SCHEDULE

FLOOR	ZONE	DEVICE NO	REMARKS
1	1	1 THRU 31	
1	2	37 THRU 44	
2	3	50 THRU 61	
3	4	67 THRU 76	

LOAD CALCULATIONS

LOAD	CONNECTED LOAD (KVA)	DEMAND LOAD (KVA)	DEMAND AMPERE	FEEDER REQ'D	FEEDER SPECIFIED
HVAC #1	43	43	52	65	85
PANEL 'LA'	24	24	29	36	100
PANEL 'PB'	81	81	98	123	205
PANEL 'PA'	192	154	186	232	410
ELEVATOR	28	28	34	43	85
H.W. TANK	24	24	29	36	50
PANEL 'RA'	14	13	36	45	100
PANEL 'RB'	26	18	50	63	155
PANEL 'RC'	23	18	49	61	100
PANEL 'RD'	17	15	42	53	100
PANEL 'DP'	82	46	128	160	360
TOTAL	474	400	482	603	810

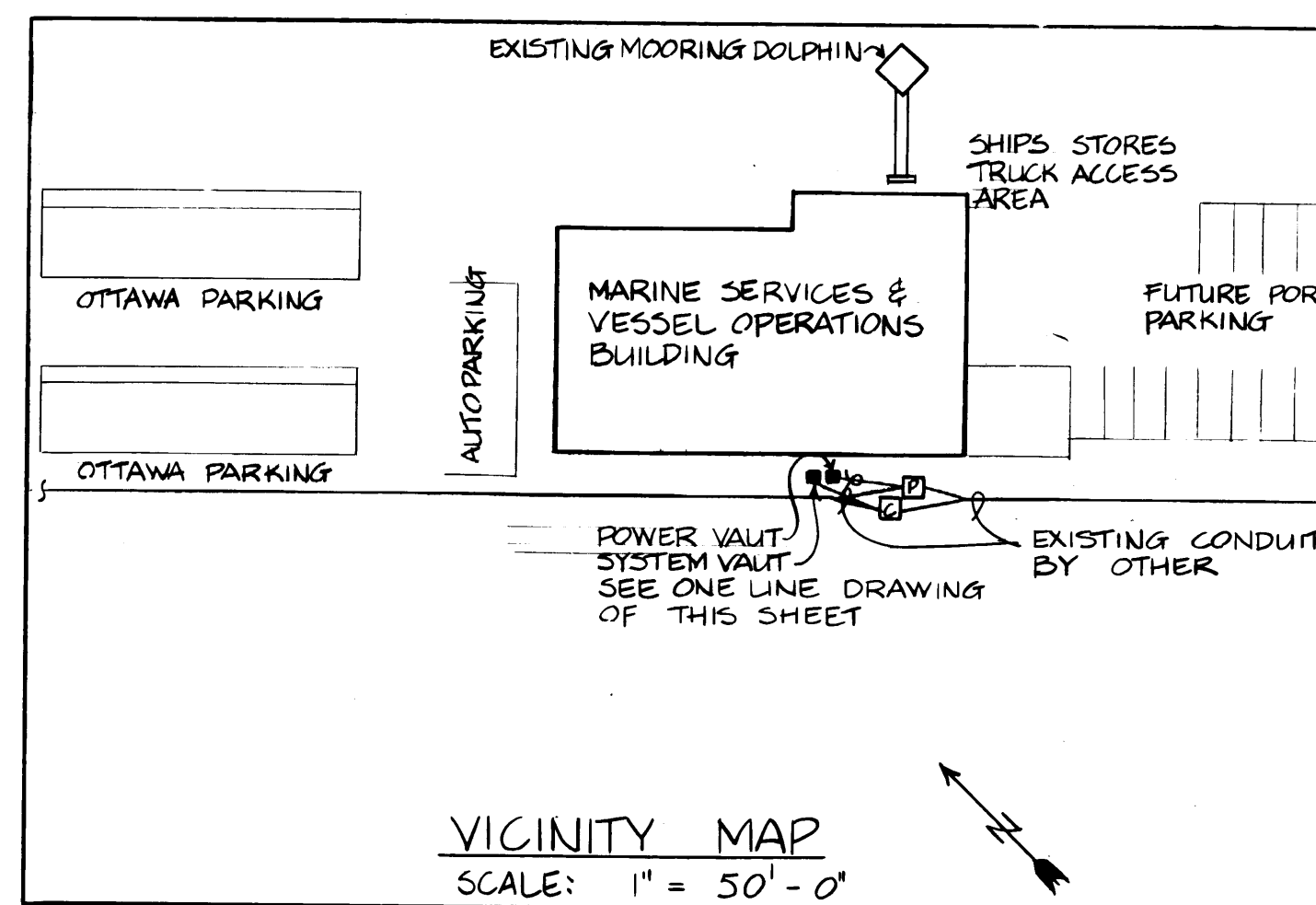


ONE LINE DIAGRAM

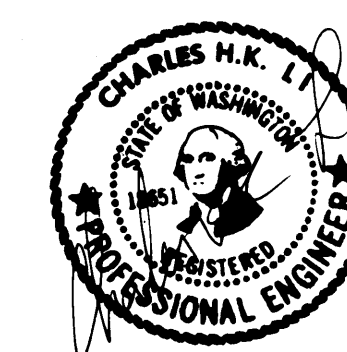
NO SCALE:

NOTES:

- ① PROVIDE CURRENT LIMITING CIRCUIT BREAKER
- ② PROVIDE MAIN SWITCHBOARD WITH 75,000 AIC RATING



VICINITY MAP  
SCALE: 1" = 50'-0"



DRAWN		DATE		PORT OF TACOMA	
CHECKED		DATE		TACOMA TERMINALS, INC.	
CHECKED		DATE		MARINE SERVICES BUILDING	
CHECKED		DATE		LOAD CALCULATIONS, ONE LINE DIAGRAMS, & SYSTEM RISER DIAGRAM	
CONT. NO. 592		FIELD BOOK (S)		SCALE	
APPROVED		DATE		DRAWING NO.	
PROJECT MANAGER		DATE		EP-3893-23	
CHIEF ENGINEER		DATE		6-E11-5	
REVISION		BY		SHEET E11-5 OF 5	

MARK	REVISION	BY	APP.	DATE
▲	REVISED TO AS BUILT	R.J.S.		9/11/85