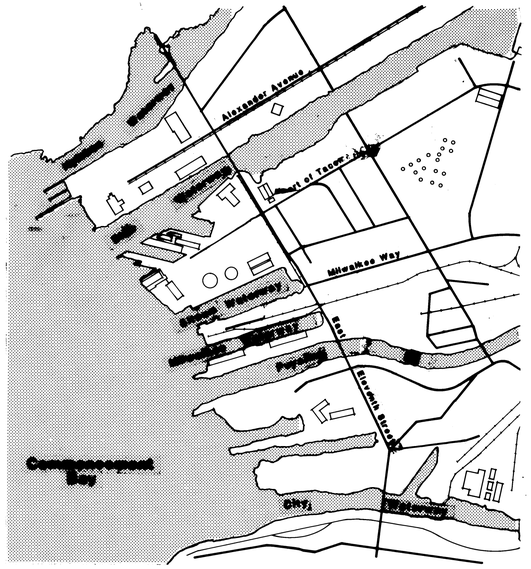


VICINITY MAP

TACOMA TERMINALS INC.

PORT OF TACOMA PHASE IV

PORT of TACOMA U.S.A.

PORT COMMISSIONERS
1984

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

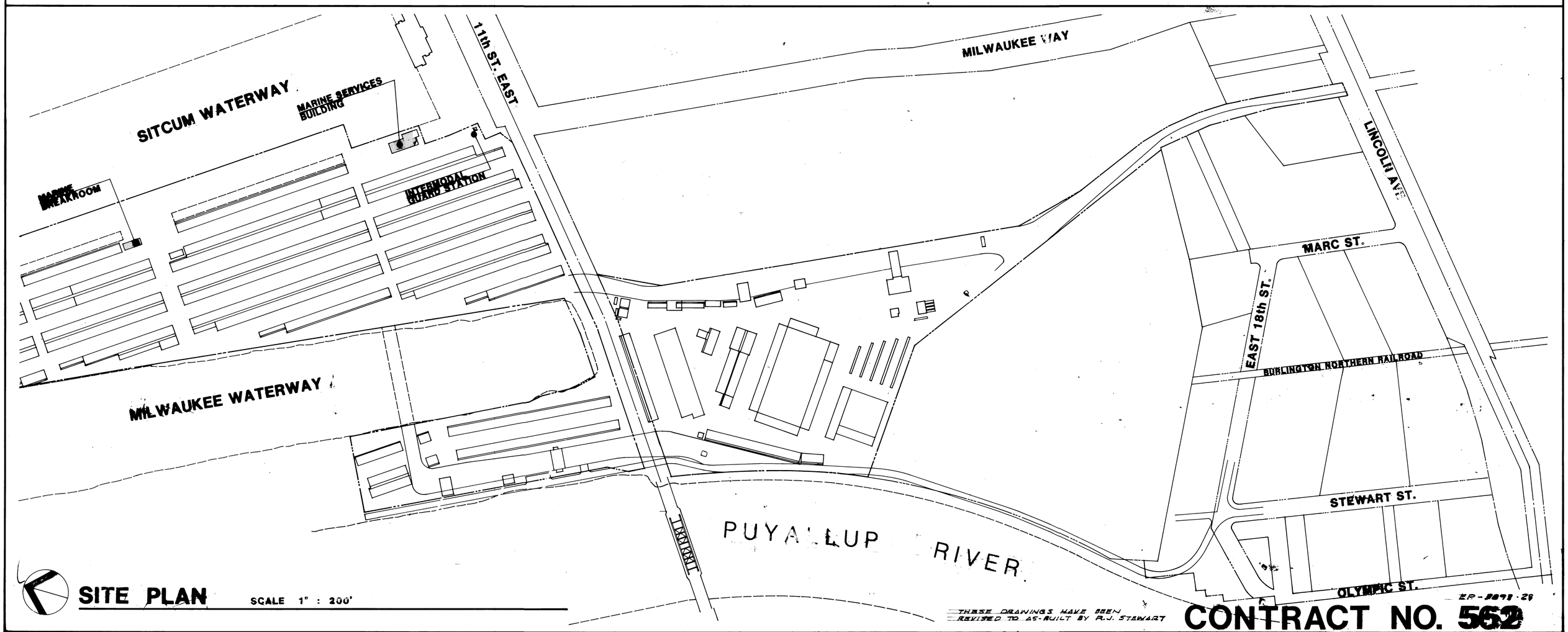
LAWRENCE M. KILLEEN EXECUTIVE DIRECTOR

JOHN J. TERPSTRA PROJECT MANAGER

ARCHITECT
McGRANAHAN, MESSENGER ASSOCIATES
950 S. FAWCETT, SUITE 300
TACOMA, WA 98402 383-3084

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 98466 565-6252



SITE PLAN SCALE 1" : 200'

THESE DRAWINGS HAVE BEEN REVISED TO AS-BUILT BY R.J. STEWART

EP-8078-29

CONTRACT NO. 562

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6-A11-2 Second Floor Level Plan, 1/4" Scale Toilet Room
6-A11-3 Third Floor Level Plan, Door & Frame Types
6-A11-4 Roof Plan, Window Types
6-A11-5 Exterior Elevations
6-A11-6 Building Sections
6-A11-7 Wall Sections
6-A11-8 Stair Plans & Sections
6-A11-9 First & Second Level Reflected Ceiling Plans
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6-A11-12 Interior Elevations
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MARINE BREAKROOM BUILDING

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6-A12-2 1/4" Scale Toilet Room Plans, Interior Elevations
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6-S12-1 Foundation Plan, Roof Framing Plan, and Details

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6-E12-1 Lighting & Power Plans

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 [illegible]

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	5N	B-2,H-4	16,460 Sq.Ft.
Marine Breakroom	5N	B-2	2,400 Sq.Ft.
Interroom Guard Station	5N	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

A1-3 / B — BUILDING SECTION

A1-3 / C — WALL SECTION

06 / 3 — DETAIL
DIVISION NUMBER
SHEET NUMBER
~~SOUND IN MANUAL~~

2 / 5 | 3 — DOOR
DOOR NUMBER
HARDWARE GROUP
FRAME TYPE

005 — ROOM NUMBER

31 — ROOM FINISH NUMBER
APPEARS WHERE A CHANGE OF MATERIAL OCCURS

FINISH SCHEDULE BOX

006 OFFICE	FLOOR	BASE	WALL	CLG.
FINISH SCHEDULE	11	20	3	41

SCHEDULE NUMBER
DOT INDICATES ADDITIONAL FINISHES

B — CABINET SCHEDULE

B — WINDOW BLIND LOCATION

2x4 STUD WALL W/ SOUND BATTS

STUD WALL

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

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

SOUND WALLS MARINE SERVICES BUILDING (SEE FLOOR PLAN)

1595 REGISTERED ARCHITECT — JAMES R. McGRANAHAN, STATE OF WASHINGTON

2618 REGISTERED ARCHITECT — LYM H. MESSENGER, STATE OF WASHINGTON

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	BUILT AS SHOWN	R.J.S.		8-22-85

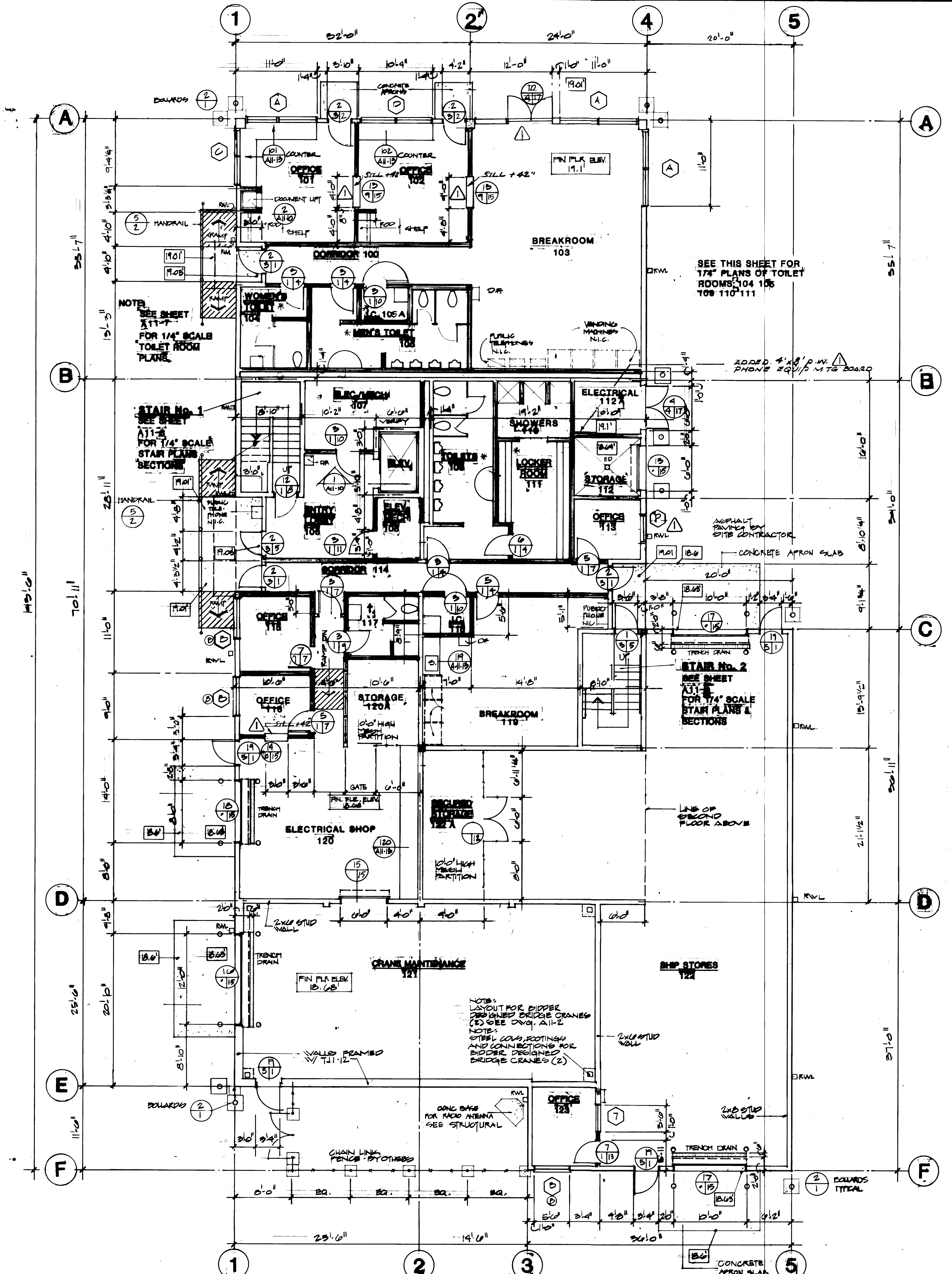
DRAWN
DATE 9-21-84
CHECKED
DATE
CHECKED
DATE
CONT. NO. 582

PORT OF TACOMA
TACOMA TERMINALS, INC.
INDEX TO DRAWINGS
BUILDING CODE DATA
KEY TO SYMBOLS

FIELD BOOK (S)
SCALE NONE

APPROVED
PROJECT MANAGER — DATE 9/24/84
CHIEF ENGINEER — DATE

DRAWING NO. EP-3893-23
6-AO-1
SHEET AO-1 OF 1

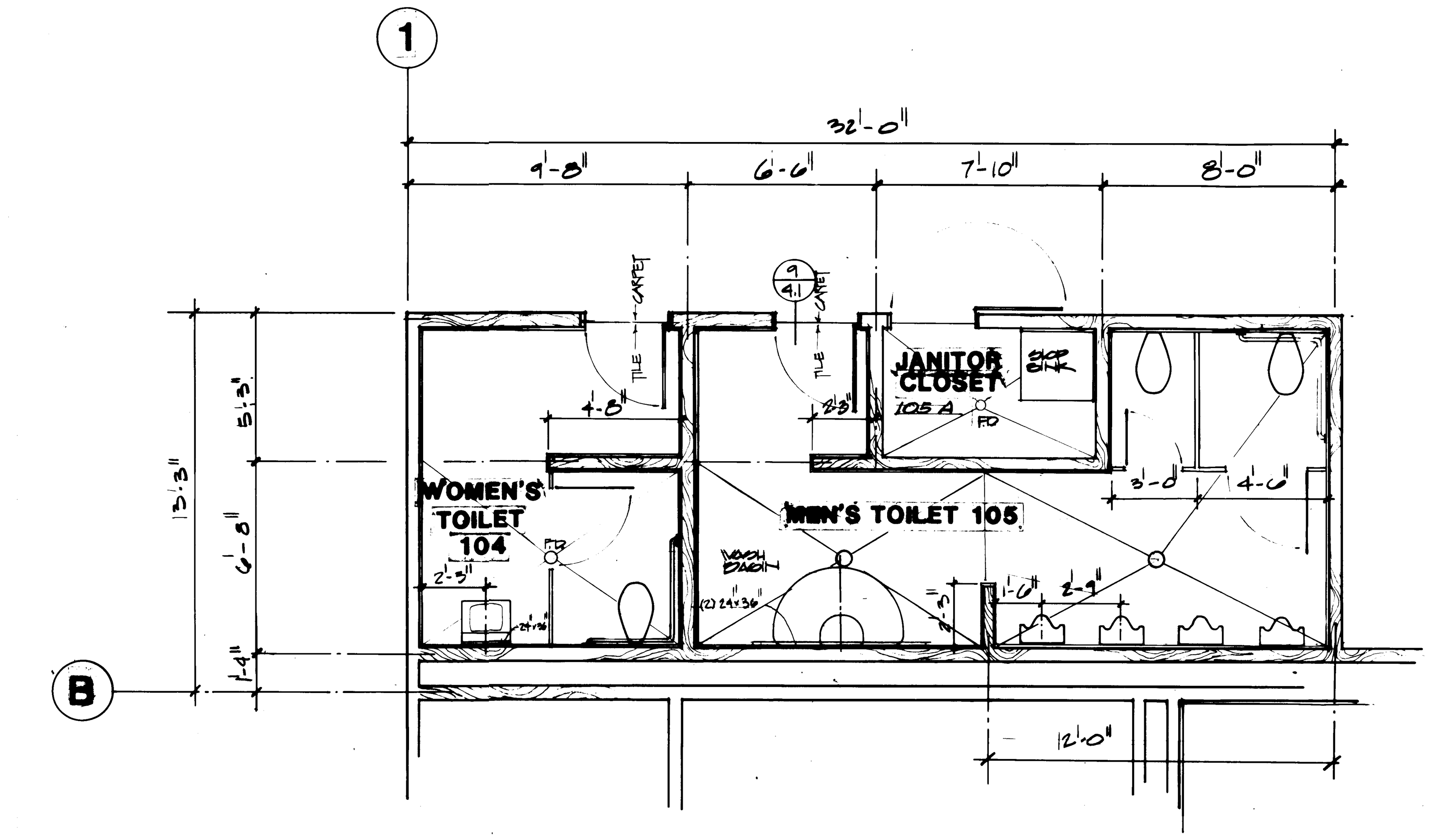


FIRST FLOOR LEVEL

SCALE 1/8" = 1'-0"

2x4 STUD WALLS

2x6 STUD OR AS NOTED

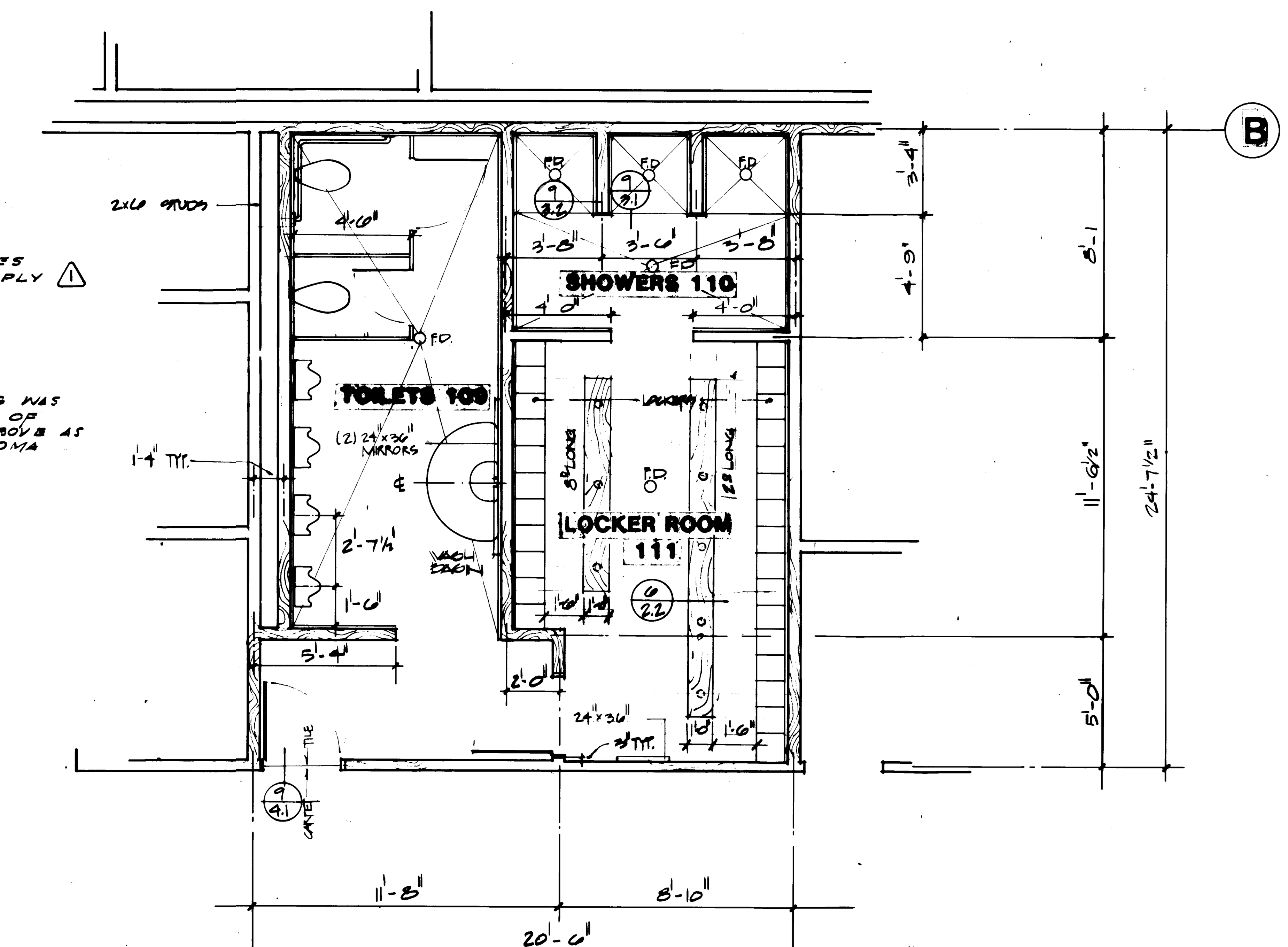


TOILET ROOM FLOOR PLAN

SCALE 1/4" = 1'-0"

ALL LAVATORY DRAIN LINES WERE INSULATED TO COMPLY WITH HANDICAPPED CODE

FIRE TAPED 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"

1595 REGISTERED ARCHITECT — JAMES R. McGRANAHAN, STATE OF WASHINGTON

2618 REGISTERED ARCHITECT — LYN H. MESSENGER, STATE OF WASHINGTON

McGRANAHAN, MESSENGER ASSOCIATES — ARCHITECTURE / PLANNING / INTERIORS

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PORT OF TACOMA

TACOMA TERMINALS, INC.

MARINE SERVICES BUILDING

FIRST FLOOR LEVEL

DRAWN MG/RJF DATE 9/21/84

CHECKED / DATE

CONT. NO. 562

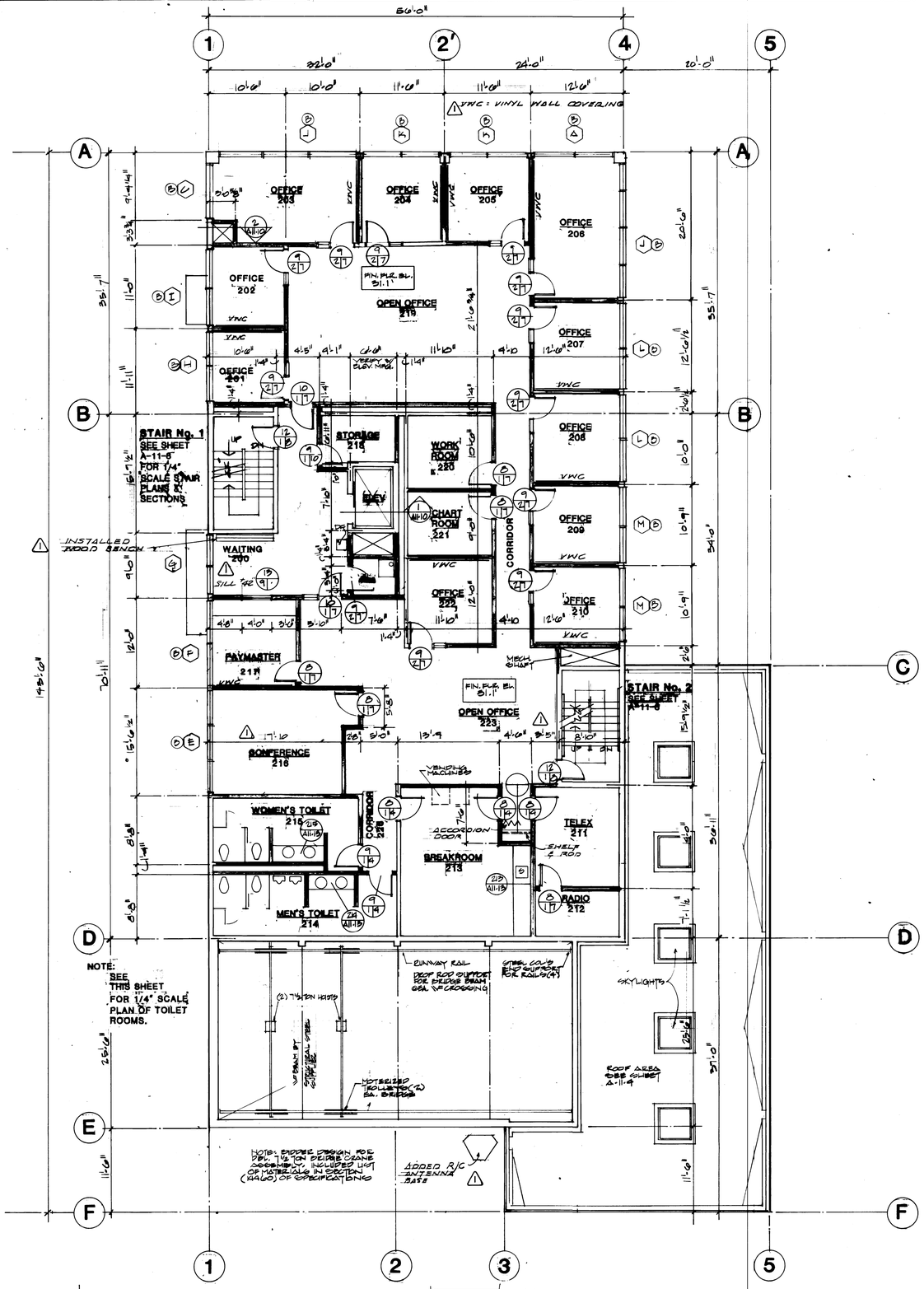
FIELD BOOK (S)

APPROVED — PROJECT MANAGER 9/24/84 — CHIEF ENGINEER

SCALE AS NOTED

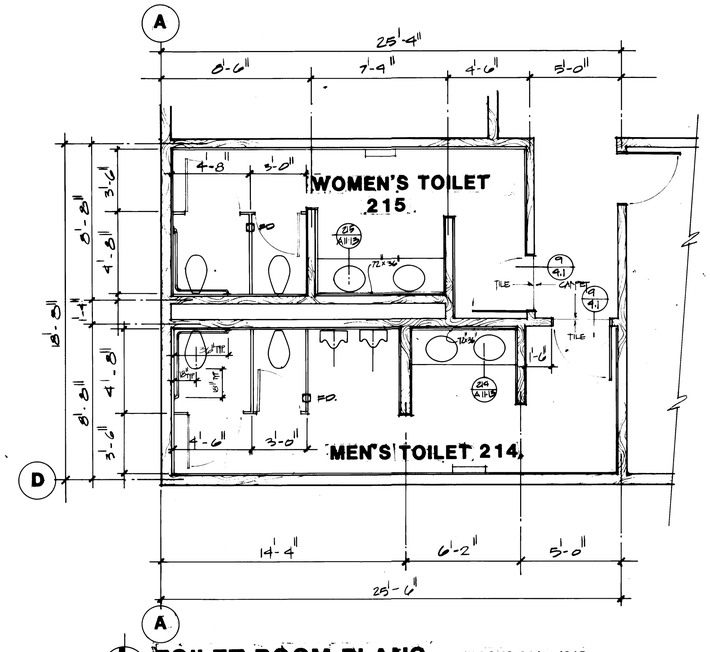
DRAWING NO. EP-3583-23, 6-A11-1

SHEET A11-1 OF 32

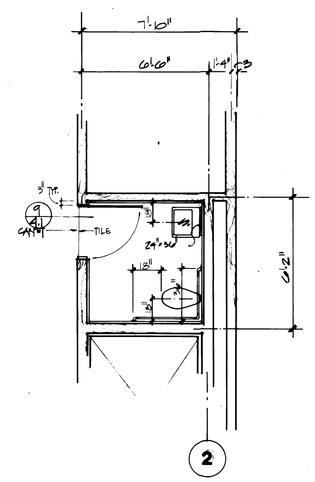


NOTE: SEE THIS SHEET FOR 1/4" SCALE PLAN OF TOILET ROOMS.

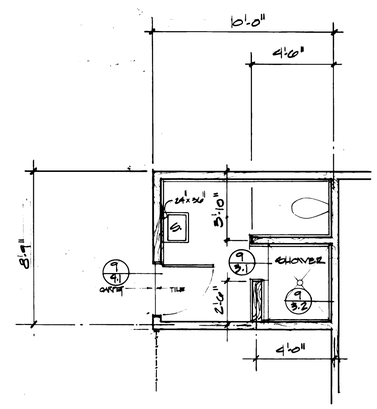
SECOND FLOOR LEVEL
SCALE 1/8" = 1'-0"



TOILET ROOM PLANS
ROOMS 214and215
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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2618 REGISTERED ARCHITECT LYN H. MESSENGER STATE OF WASHINGTON

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DATE 9/18/84
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DATE
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DATE
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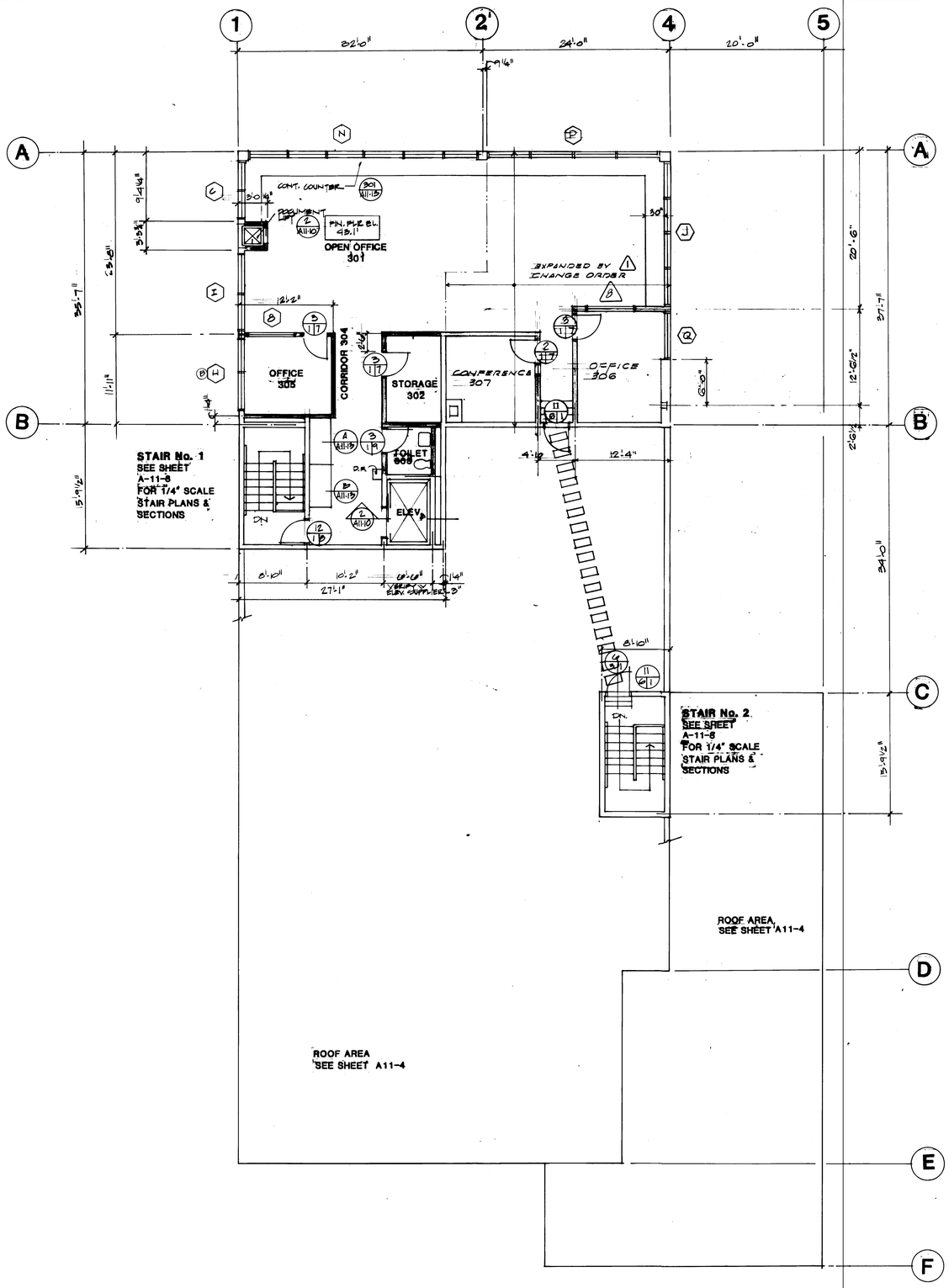
FIELD BOOK (S)
APPROVED
PROJECT MANAGER — DATE 9/24/84
CHIEF ENGINEER — DATE

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

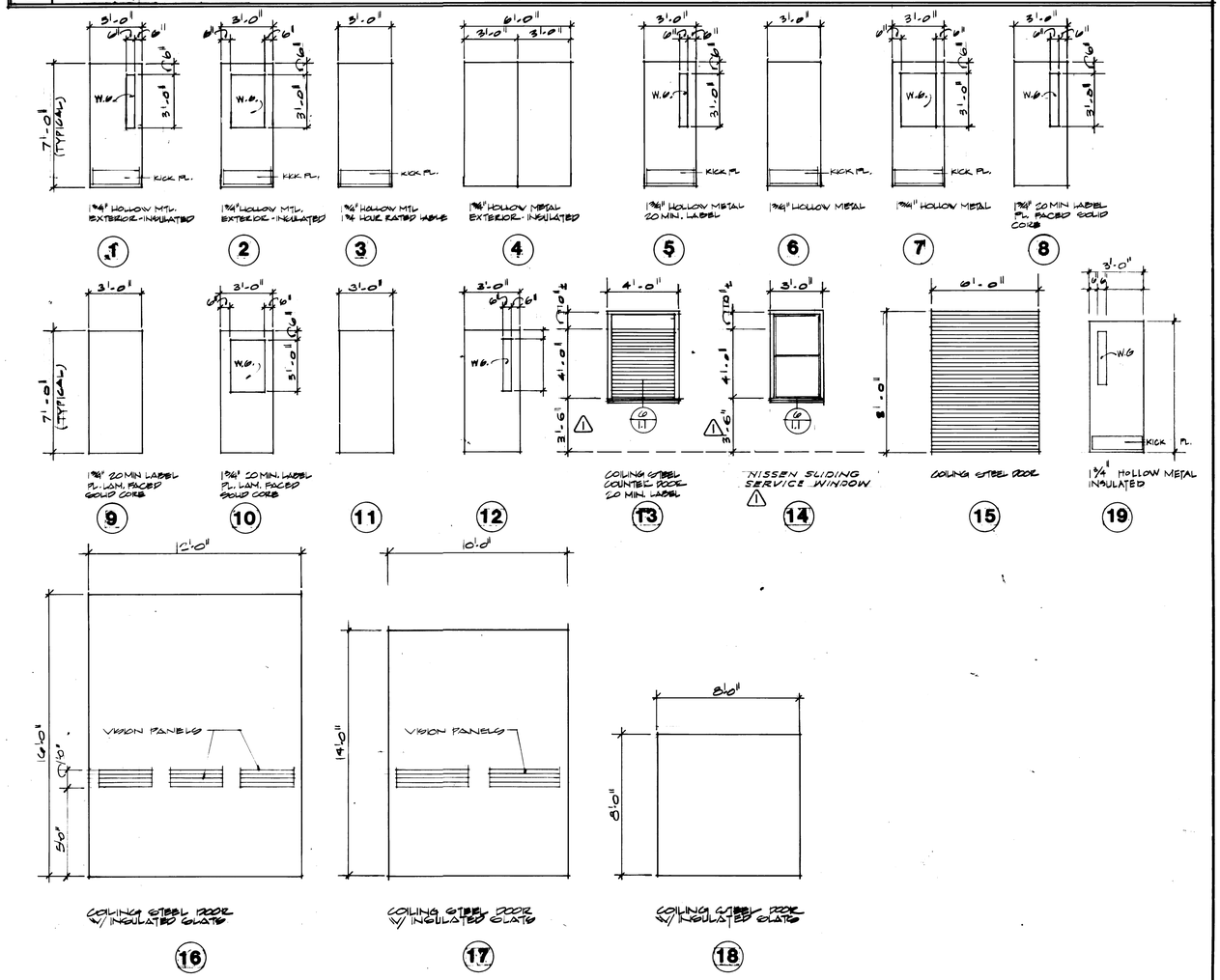
SCALE AS NOTED
DRAWING NO. EP-3893-23 6-A11-2
SHEET A11-2 OF 13



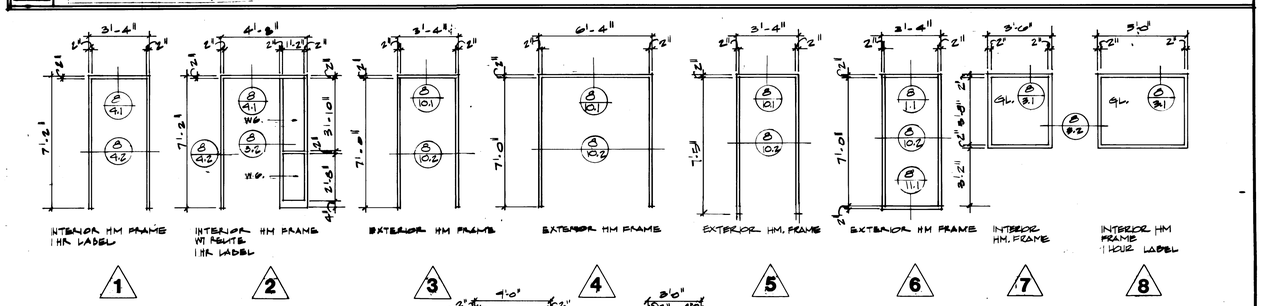
THIRD FLOOR LEVEL

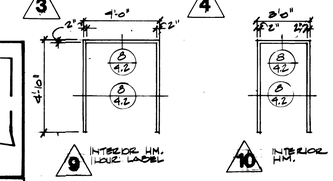
SCALE 1/8"=1'-0"

DOOR TYPES



FRAME TYPES





1595 REGISTERED ARCHITECT JAMES R. McGRANAHAN STATE OF WASHINGTON

2618 REGISTERED ARCHITECT LYN H. MESSENGER STATE OF WASHINGTON

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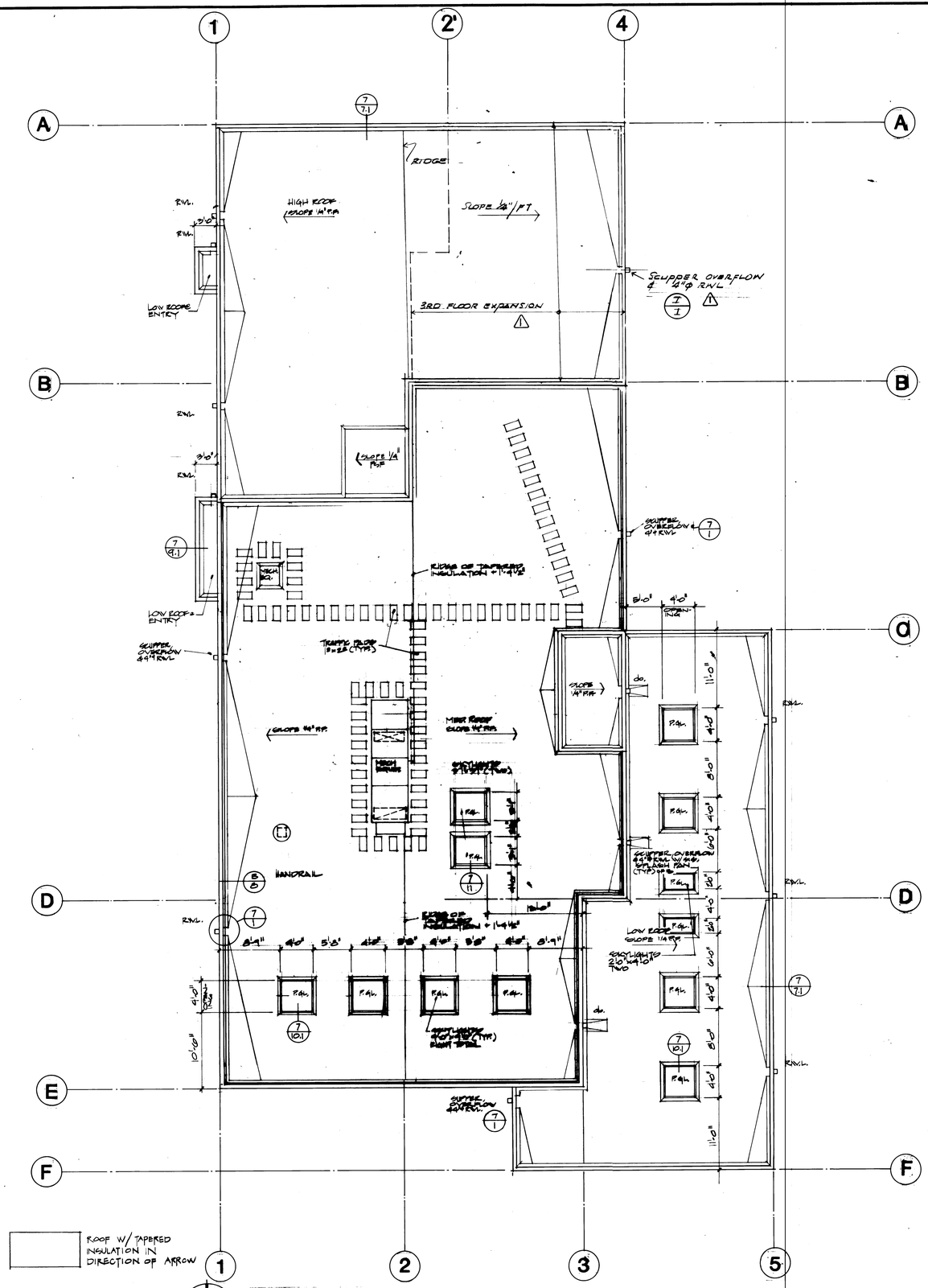
DRAWN DIM, MCG DATE 9-21-84
CHECKED DATE
CHECKED DATE
CONT. NO. 692

PORT OF TACOMA

TACOMA TERMINALS, INC.

MARINE SERVICES BUILDING THIRD FLOOR LEVEL

FIELD BOOK (S)
SCALE AS NOTED
APPROVED PROJECT MANAGER 9/24/84 DATE; CHIEF ENGINEER " DATE
DRAWING NO. EP-3893-23 6-A11-3
SHEET A11-3 OF 13

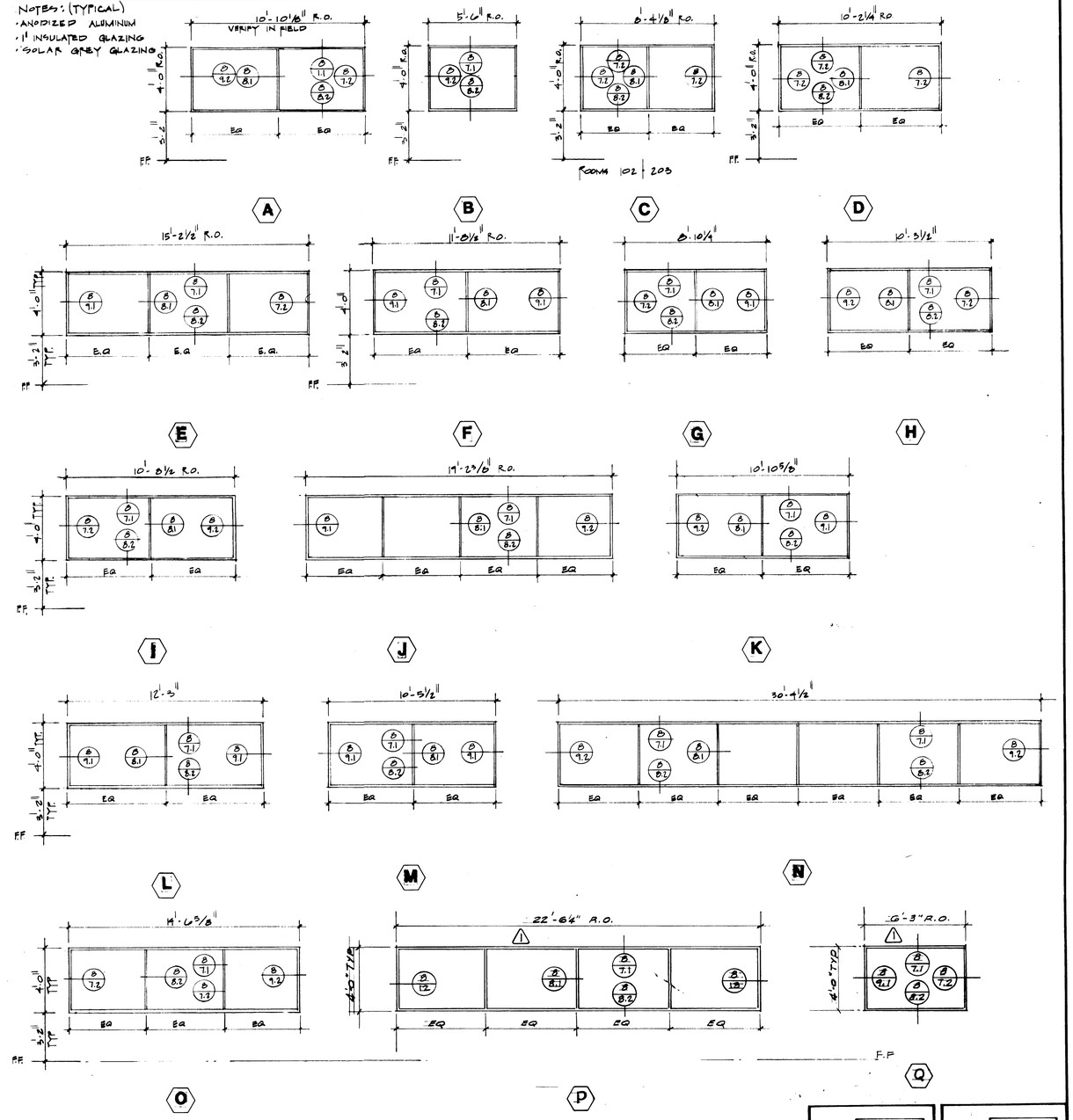


ROOF PLAN

SCALE 1/8":1'-0"

WINDOW TYPES

NOTES: (TYPICAL)
- ANODIZED ALUMINUM
- 1" INSULATED GLAZING
- SOLAR GREY GLAZING



1595 REGISTERED ARCHITECT
JAMES R. McGRANAHAN
STATE OF WASHINGTON

2618 REGISTERED ARCHITECT
LYN H. MESSENGER
STATE OF WASHINGTON

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1	REVISED TO AS BUILT	R.J.S.		8-27-86

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DATE 9-21-84
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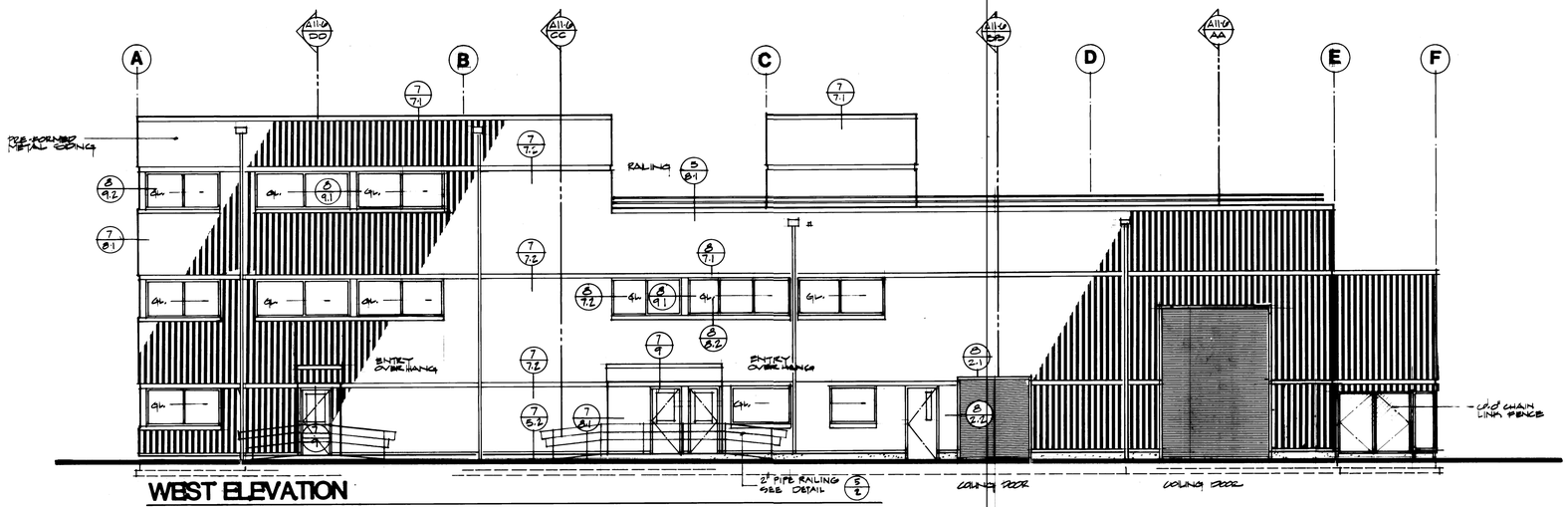
FIELD BOOK (S)
APPROVED
PROJECT MANAGER — DATE 9/24/84
CHIEF ENGINEER — DATE

PORT OF TACOMA

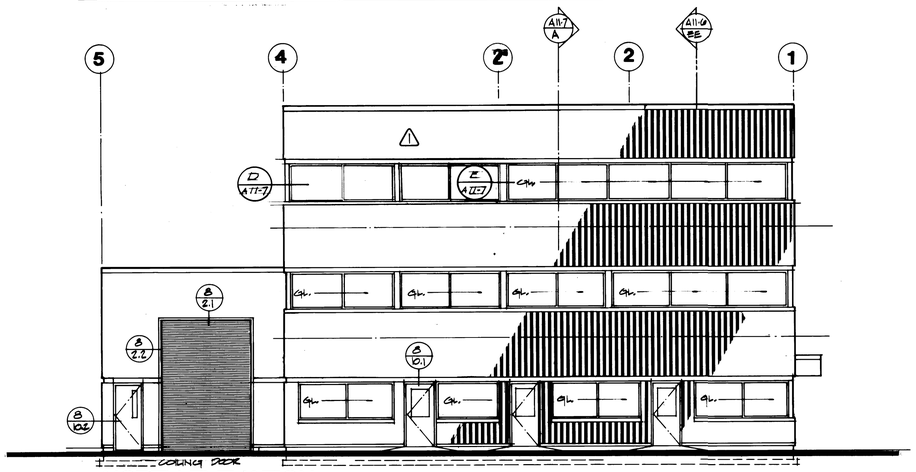
TACOMA TERMINALS, INC.

MARINE SERVICES BUILDING
ROOF PLAN & WINDOW TYPES

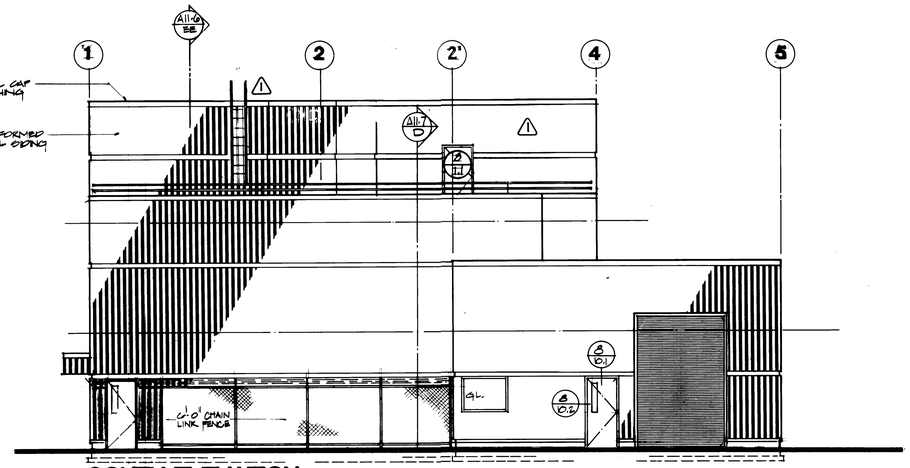
SCALE
DRAWING NO. EP-3893-~~29~~ 6-A11-4
SHEET A11-4 OF 13



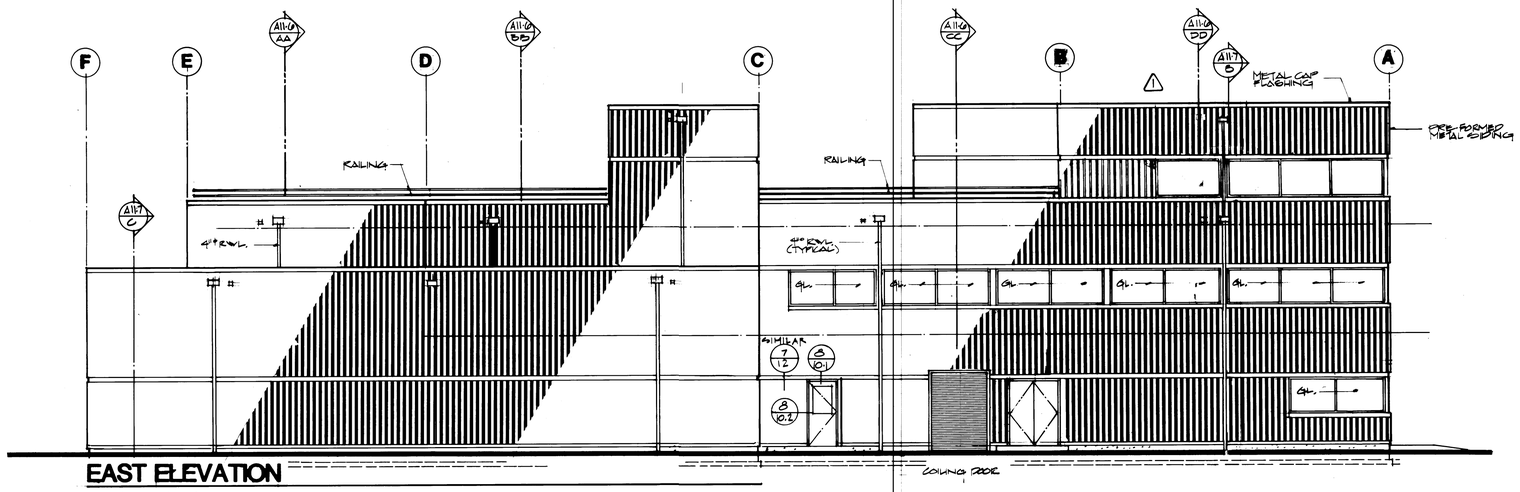
WEST ELEVATION



NORTH ELEVATION



SOUTH ELEVATION



EAST ELEVATION

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DATE
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PORT OF TACOMA

TACOMA TERMINALS, INC.

MARINE SERVICES BUILDING EXTERIOR ELEVATIONS

FIELD BOOK (S)

SCALE

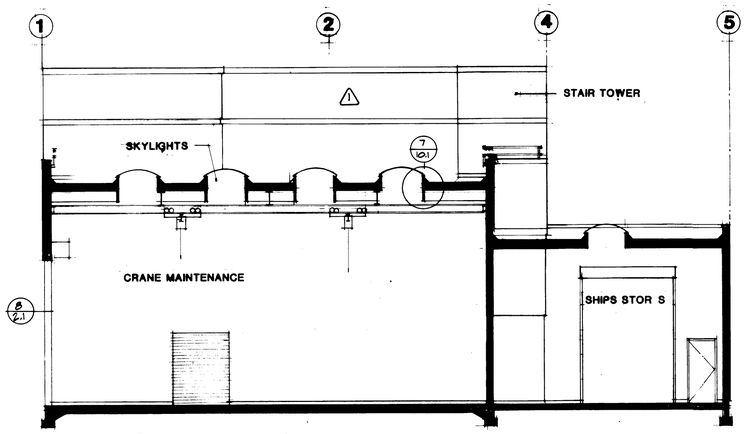
APPROVED

PROJECT MANAGER — DATE 9/24/84

CHIEF ENGINEER — DATE

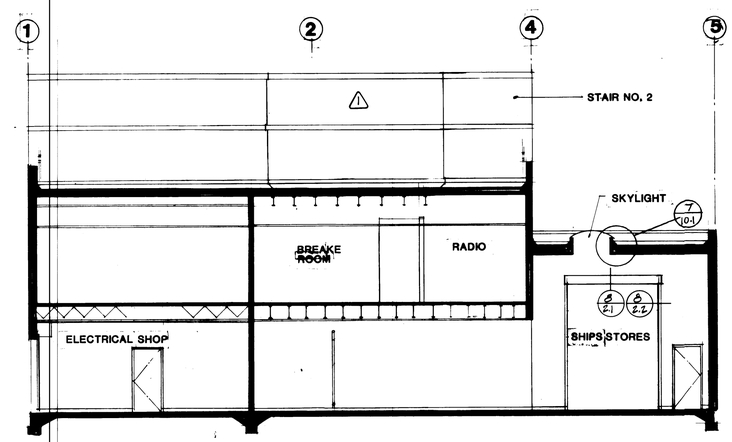
DRAWING NO. EP-3893-23 6-A11-5

SHEET A11-5 OF 13



BUILDING SECTION A-A

SCALE 1/8"=1'0"



BUILDING SECTION B-B

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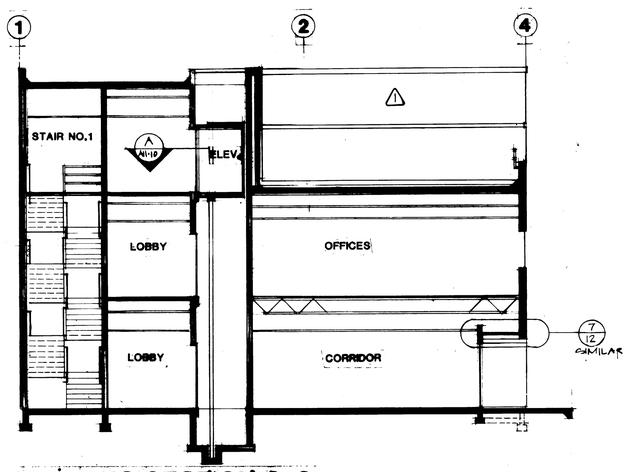

BUILDING SECTION C-C

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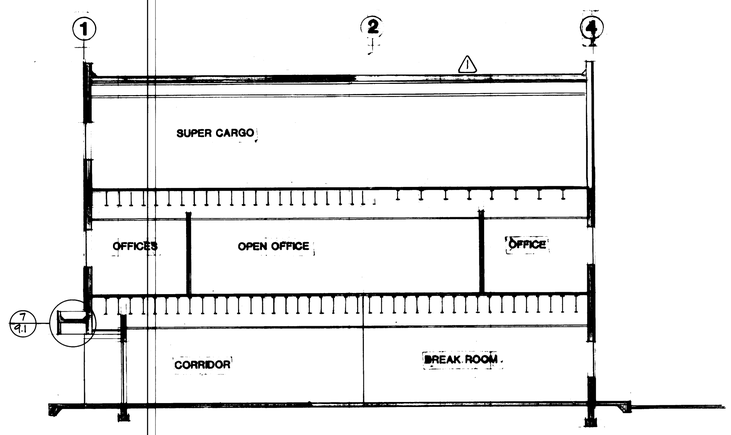
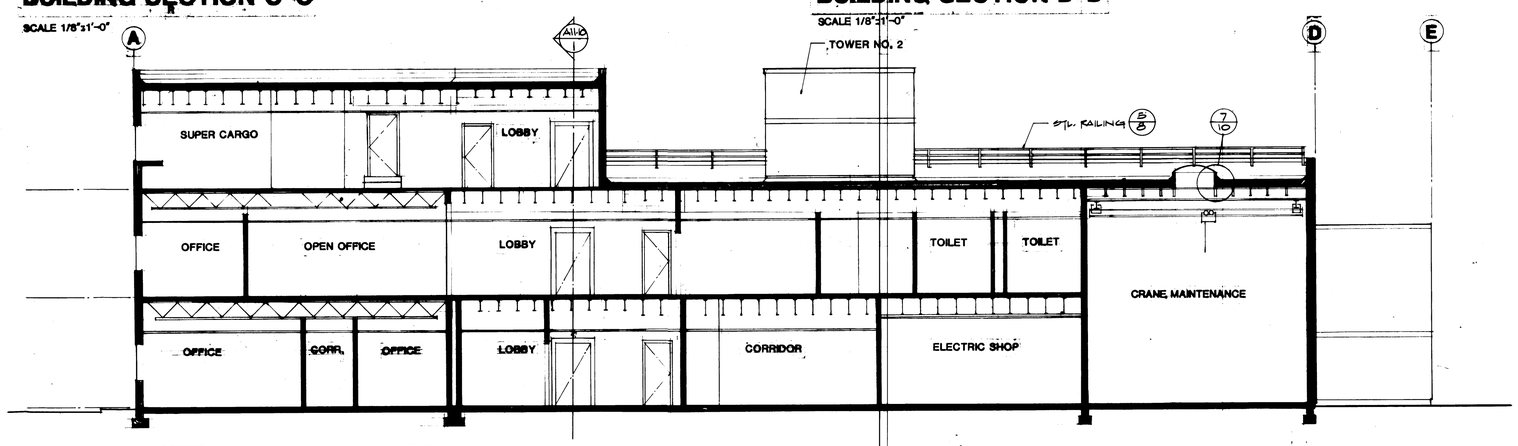


BUILDING SECTION D-D

SCALE 1/8"=1'-0"



BUILDING SECTION E-E

SCALE 1/8"=1'0"

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2618 REGISTERED ARCHITECT LYN H. MESSENGER STATE OF WASHINGTON

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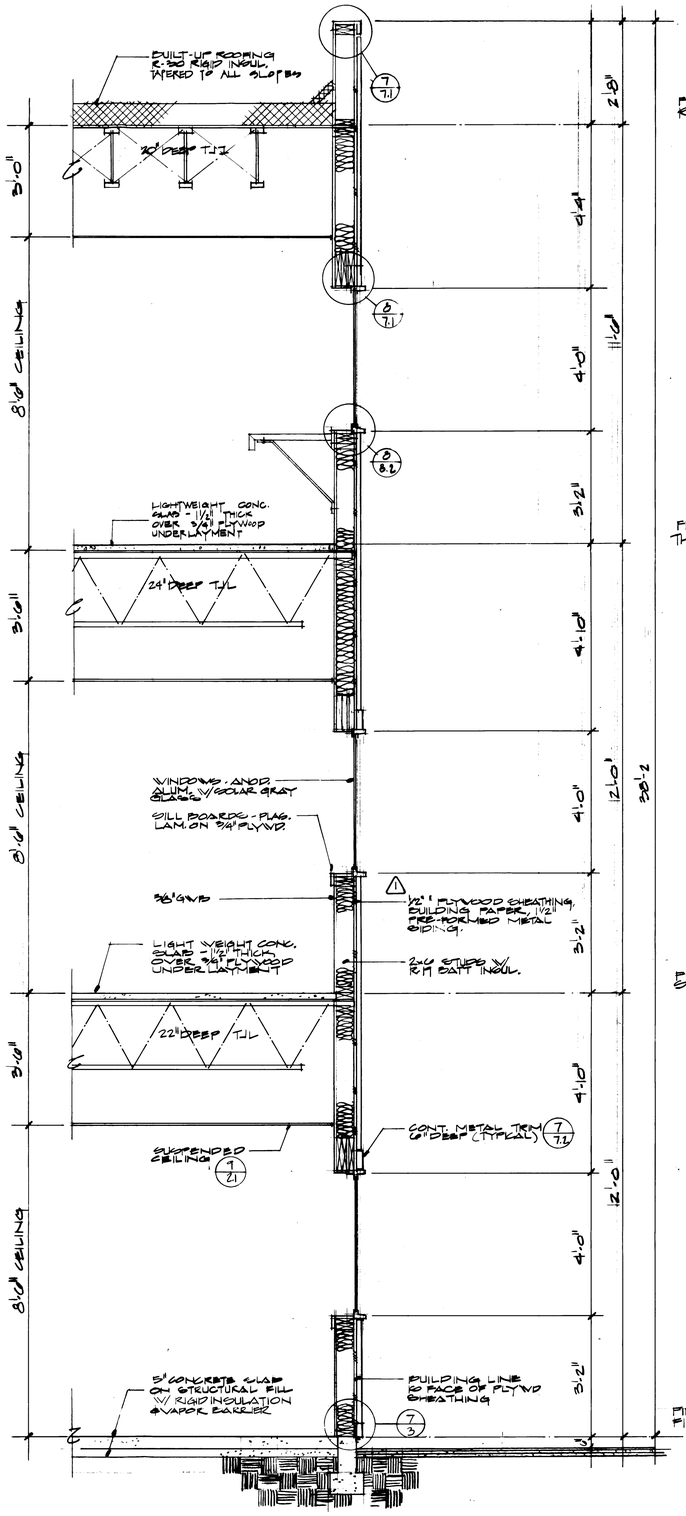
FIELD BOOK (S)
APPROVED
PROJECT MANAGER — DATE 9/24/84
" — DATE
CHIEF ENGINEER — DATE

PORT OF TACOMA

TACOMA TERMINALS, INC.

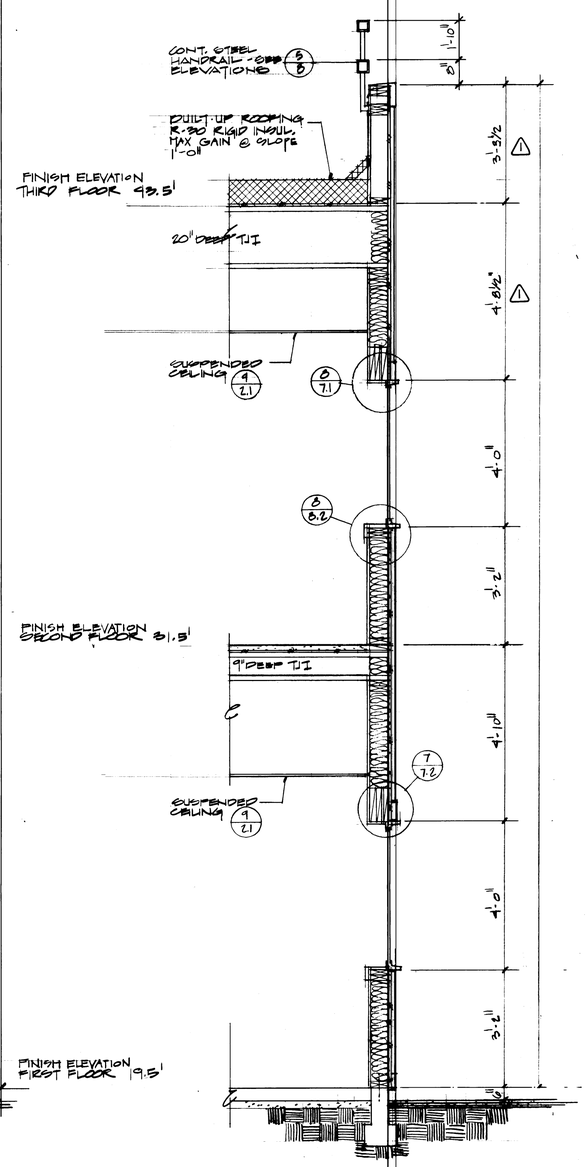
MARINE SERVICES BUILDING
BUILDING SECTIONS

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



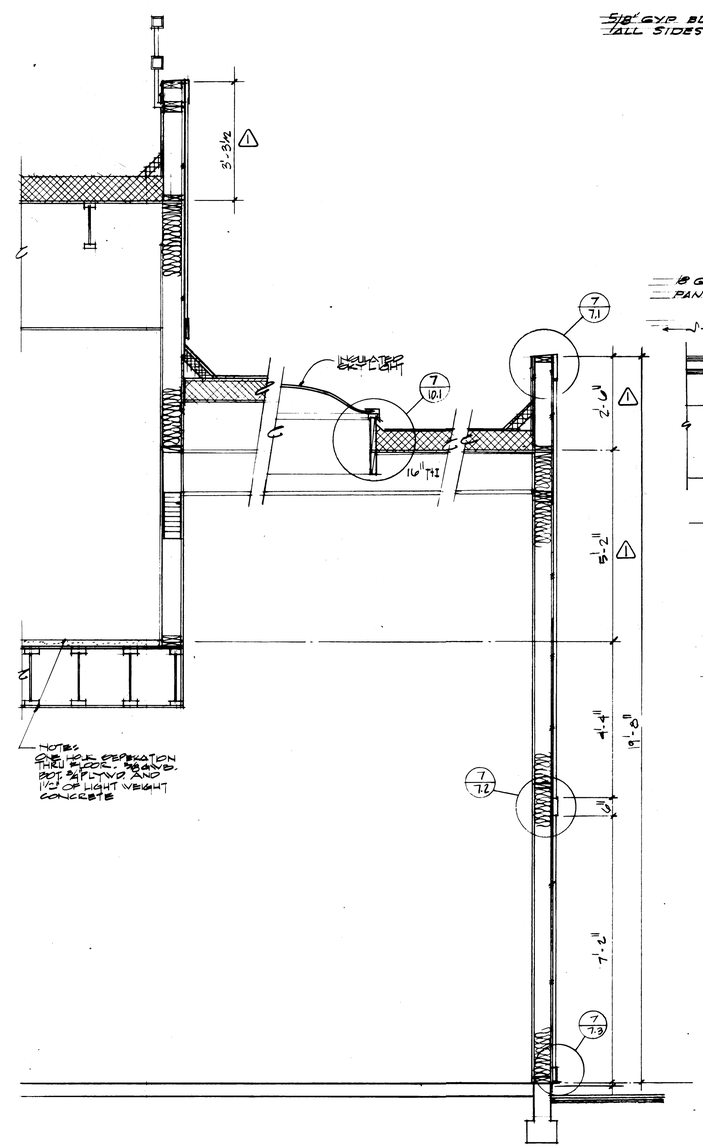
WALL DETAIL A

SCALE 1/2"=1'-0"



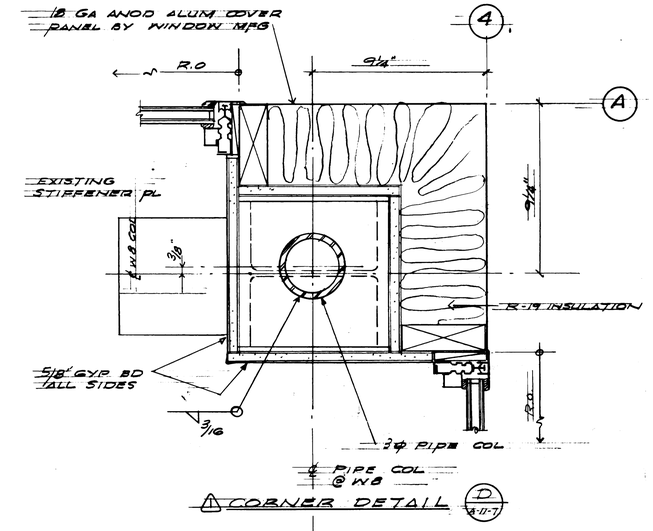
WALL DETAIL B

SCALE 1/2"=1'-0"

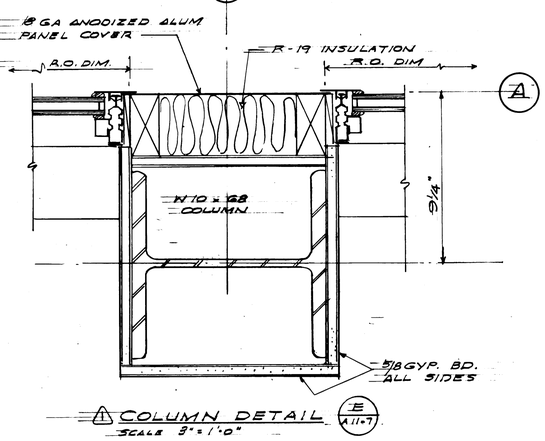


WALL DETAIL C

SCALE 1/2"=1'-0"



CORNER DETAIL (D / A11-7)



COLUMN DETAIL (E / A11-7)

SCALE 3"=1'-0"

REGISTERED ARCHITECT — JAMES R. McGRANAHAN — STATE OF WASHINGTON (1595)

REGISTERED ARCHITECT — LYN H. MESSENGER — STATE OF WASHINGTON (2618)

McGRANAHAN, MESSENGER ASSOCIATES
ARCHITECTURE / PLANNING / INTERIORS
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MARK	REVISION	BY	APP.	DATE
1	REVISED TO AS BUILT	A.J.S		8-28-85

DRAWN RDB, MCG
DATE 9-21-83
CHECKED
DATE
CHECKED
DATE
CONT. NO. 892

PORT OF TACOMA

TACOMA TERMINALS, INC.

MARINE SERVICES BUILDING WALL SECTIONS

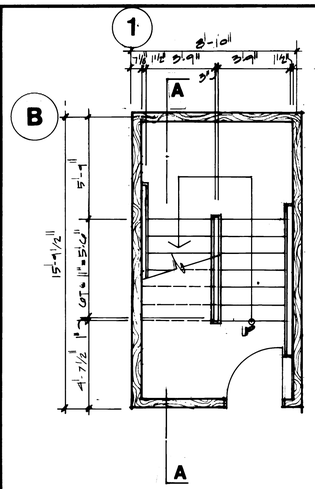
FIELD BOOK (S)

SCALE AS NOTED

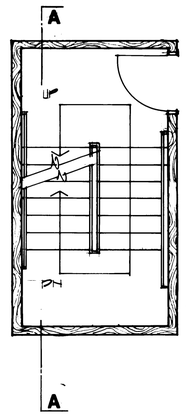
APPROVED
PROJECT MANAGER — DATE 9/24/84
CHIEF ENGINEER — DATE

DRAWING NO. EP-3893-23 6-A11-7

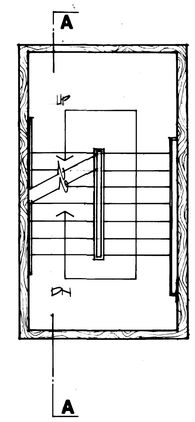
SHEET A11-7 OF 13



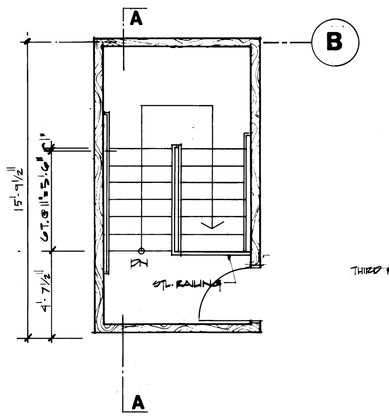
STAIR PLAN
FIRST FLOOR LEVEL



STAIR PLAN
SECOND FLOOR LEVEL

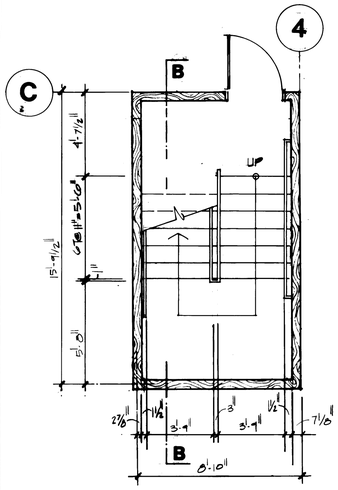


STAIR PLAN
INTERMEDIATE LEVEL

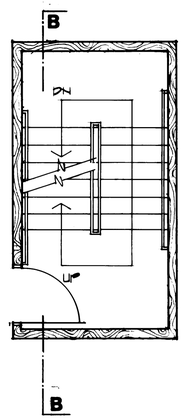


STAIR PLAN
THIRD FLOOR PLAN

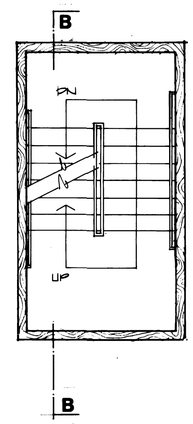
STAIR NO. 1 PLANS
1/4":1'-0"



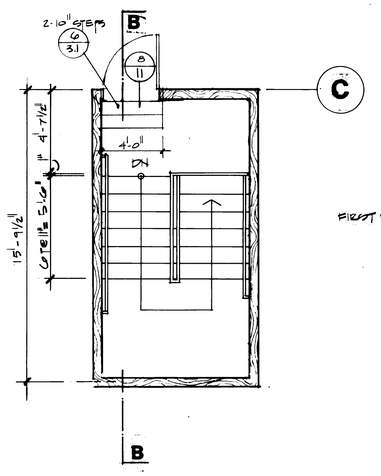
STAIR PLAN
FIRST FLOOR LEVEL



STAIR PLAN
SECOND FLOOR LEVEL

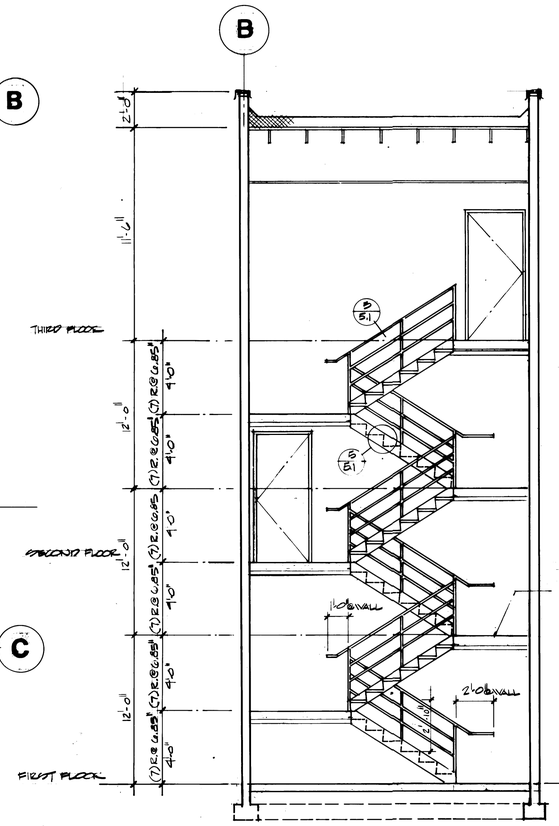


STAIR PLAN
INTERMEDIATE LEVEL

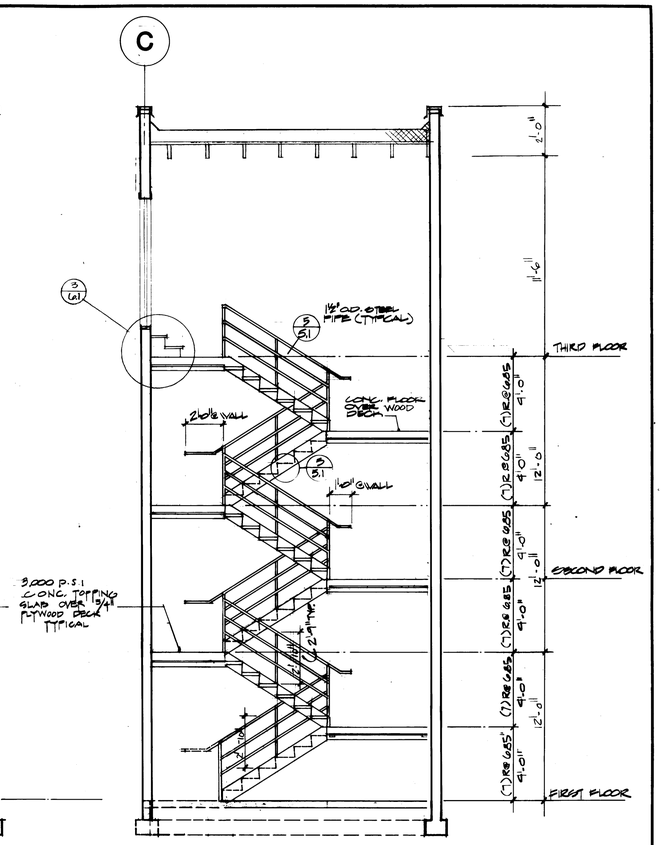


STAIR PLAN
THIRD FLOOR PLAN

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



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



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

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

△

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

△

REGISTERED ARCHITECT 1595 JAMES R. McGRANAHAN STATE OF WASHINGTON

REGISTERED ARCHITECT 2618 LYN H. MESSENGER STATE OF WASHINGTON

McGRANAHAN, MESSENGER ASSOCIATES
ARCHITECTURE / PLANNING / INTERIORS
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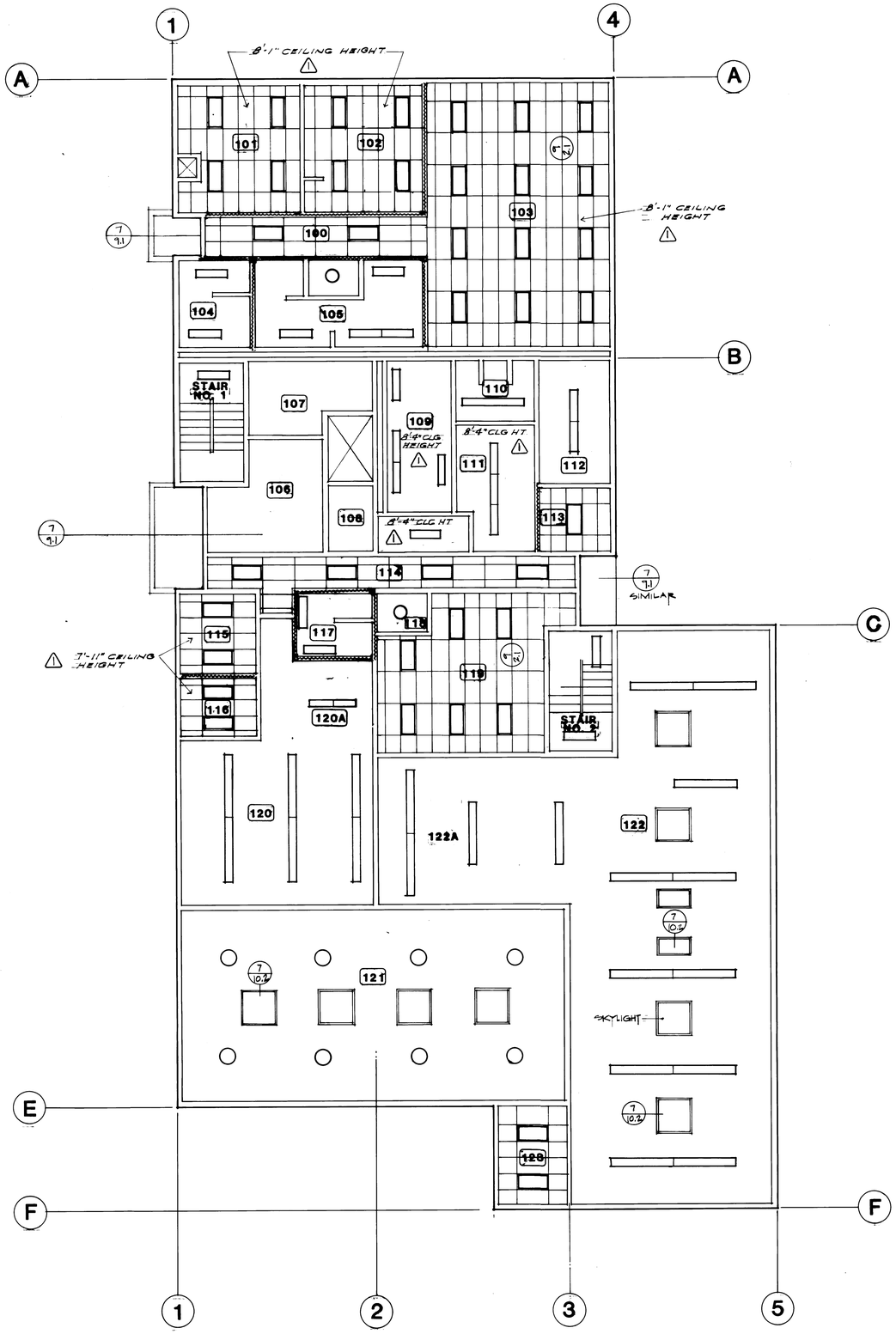
△	REVISED TO AS-BUILT	R.J.S		8-28-85

DRAWN RLF, MCG
DATE 9-21-84
CHECKED
DATE
CHECKED
DATE
CONT. NO. 583
FIELD BOOK (S)
APPROVED
PROJECT MANAGER 9/24/84 DATE
CHIEF ENGINEER DATE

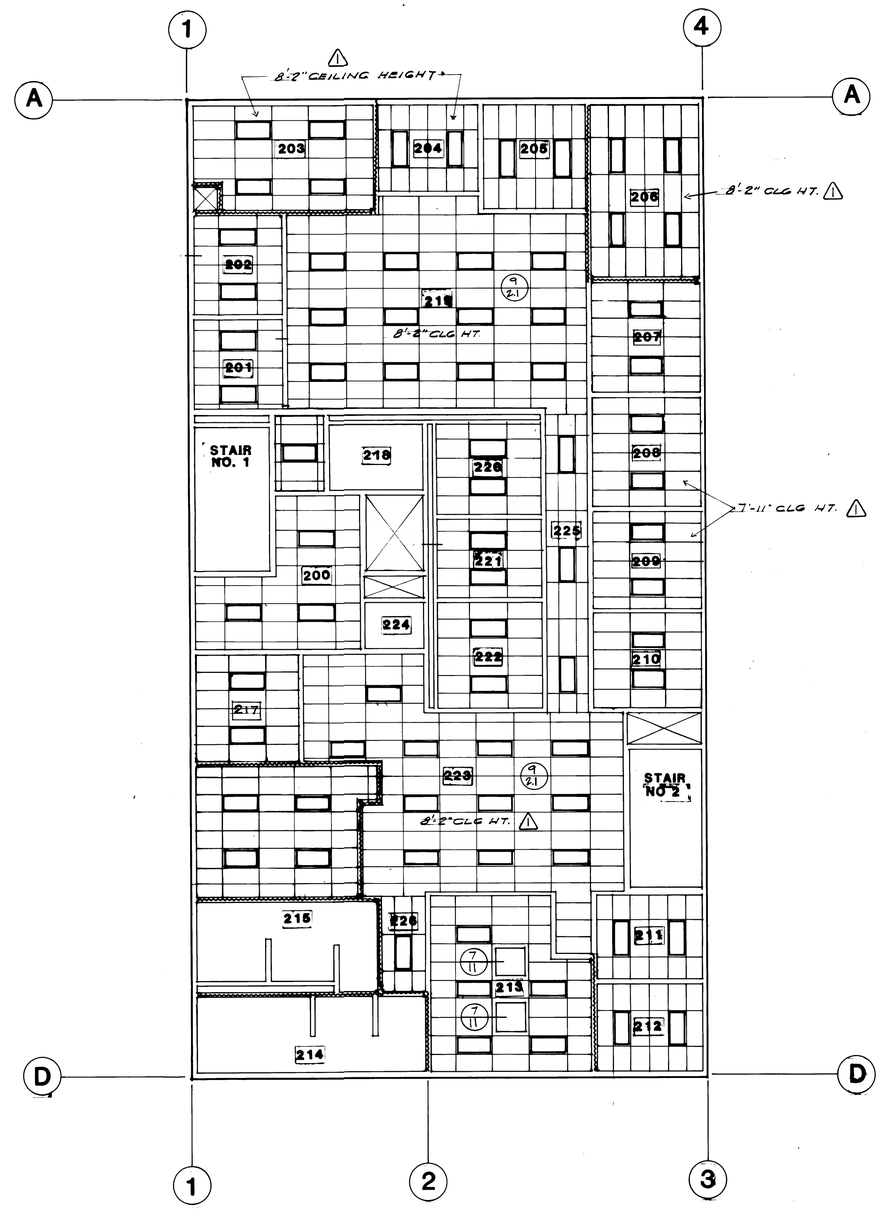
PORT OF TACOMA
TACOMA TERMINALS, INC.
MARINE SERVICES BUILDING
STAIR PLANS & SECTIONS

SCALE AS NOTED
DRAWING NO. EP-3893-23 6-A11-8
SHEET A11-8 OF 13



REFLECTED CEILING PLAN, FIRST LEVEL

SCALE 1/8"=1'-0"



REFLECTED CEILING PLAN, SECOND LEVEL

SCALE 1/8"=1'-0"

1595 REGISTERED ARCHITECT JAMES R. McGRANAHAN STATE OF WASHINGTON

2618 REGISTERED ARCHITECT LYN H. MESSENGER STATE OF WASHINGTON

McGRANAHAN, MESSENGER ASSOCIATES
ARCHITECTURE / PLANNING / INTERIORS
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1	REVISED TO AS-BUILT	A.J.S		8-29-86

DRAWN BJF, MCG
DATE 9-21-84
CHECKED
DATE
CHECKED
DATE
CONT. NO. 562
FIELD BOOK (S)

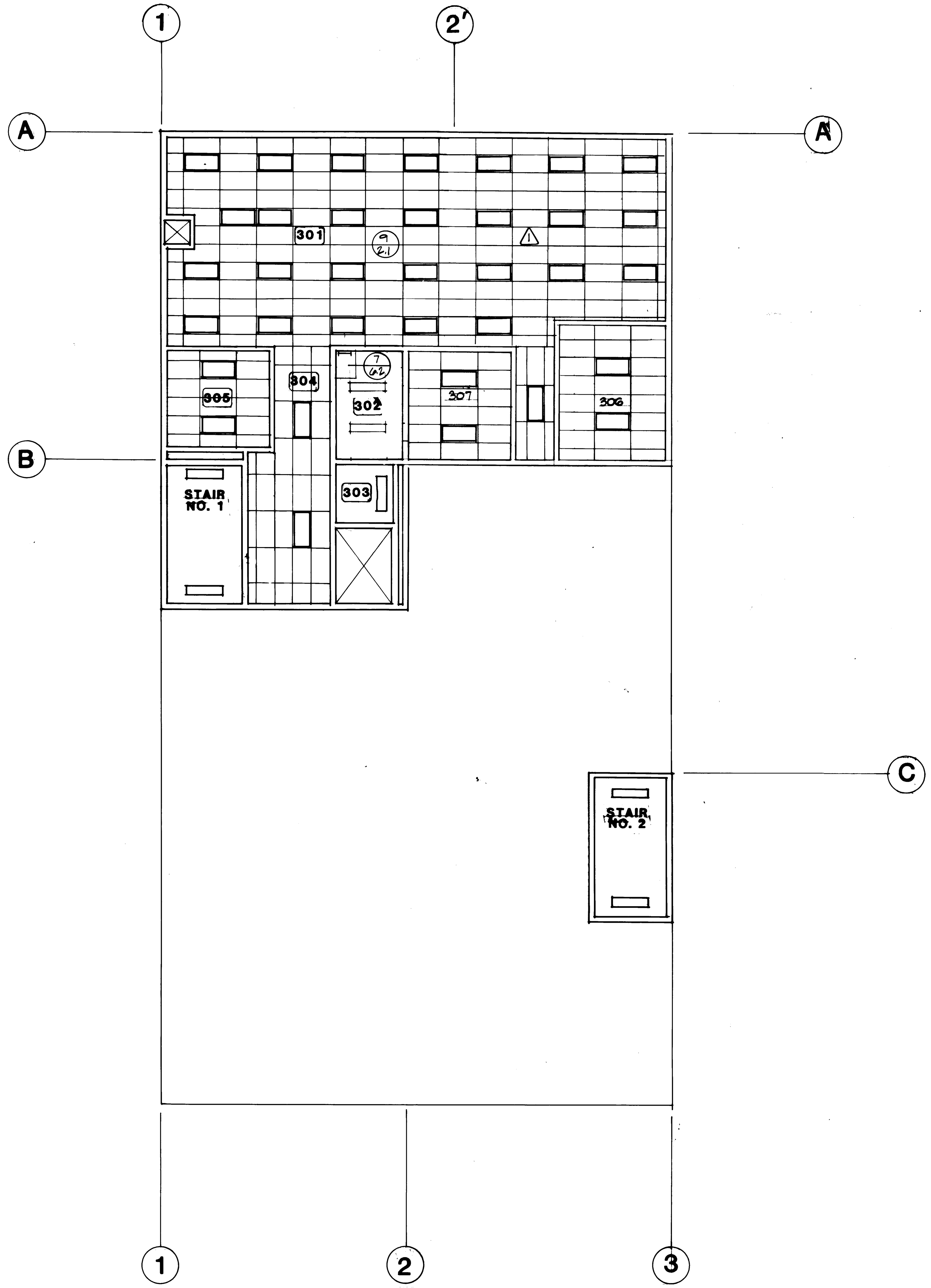
PORT OF TACOMA

TACOMA TERMINALS, INC.
MARINE SERVICES BUILDING
REFLECTED CEILING PLAN
FIRST & SECOND LEVELS

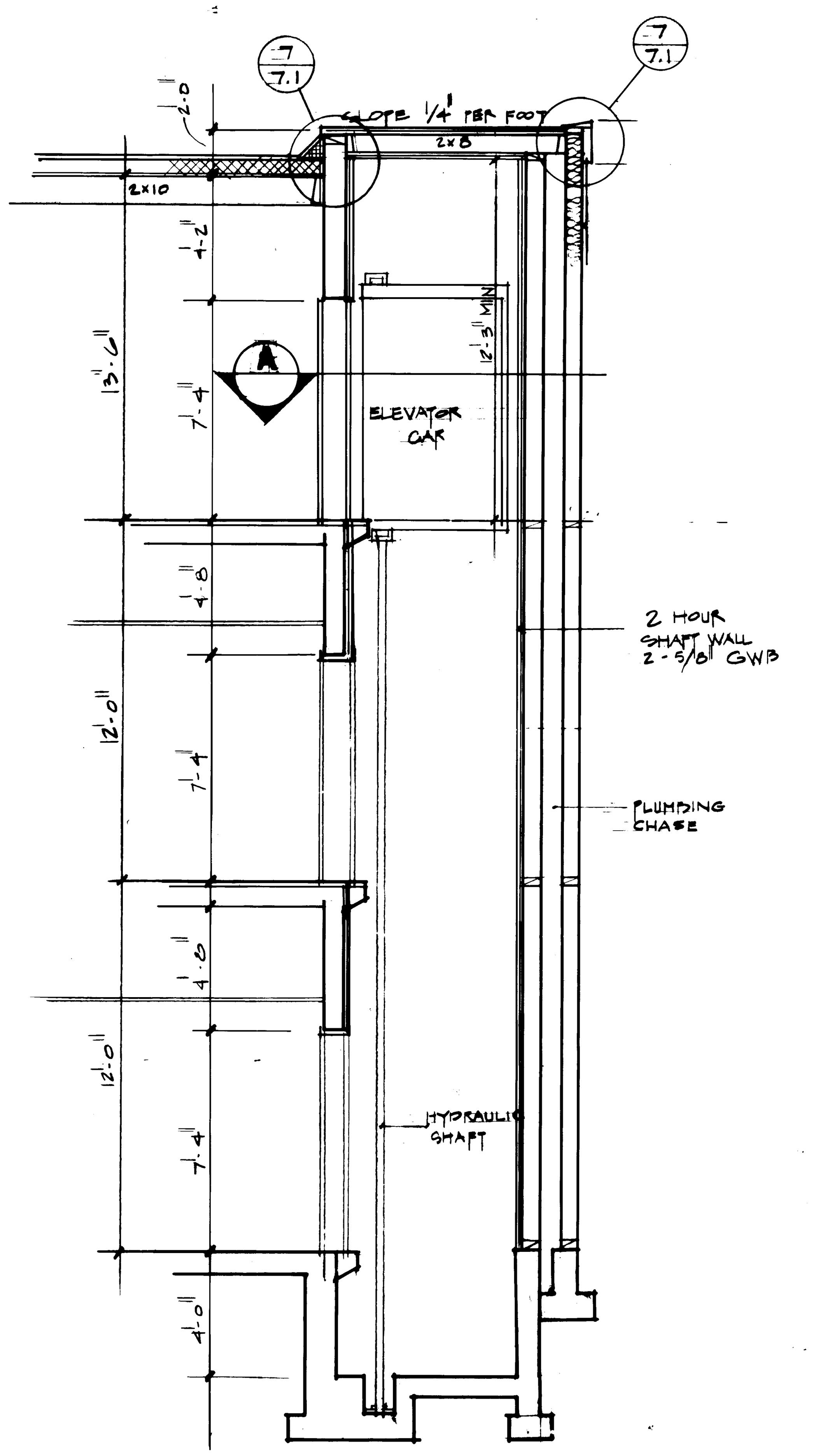
SCALE AS NOTED

APPROVED
PROJECT MANAGER — DATE 9/24/84
CHIEF ENGINEER — DATE

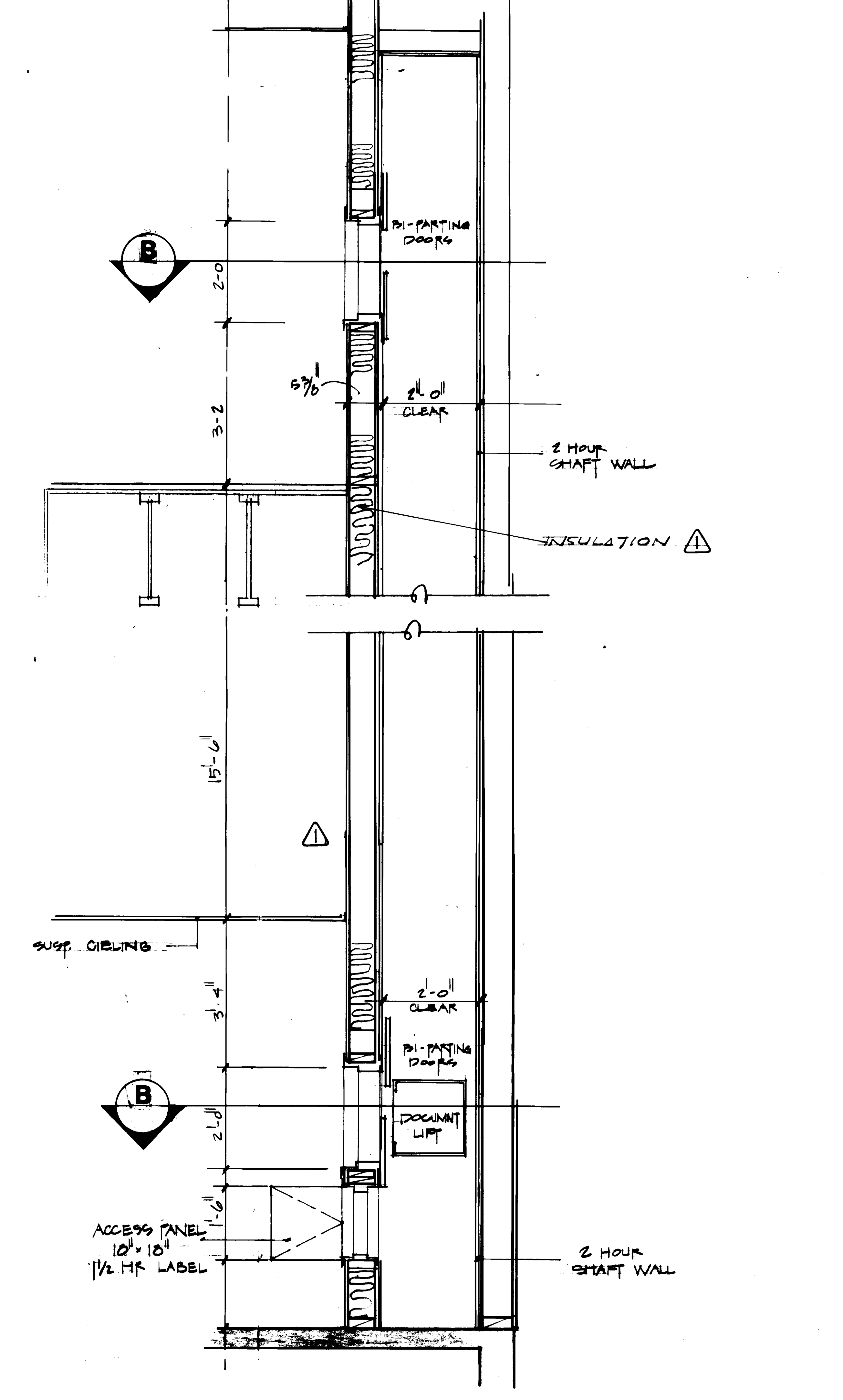
DRAWING NO. EP-3893-23
6-A11-9
SHEET A11-9 OF 13



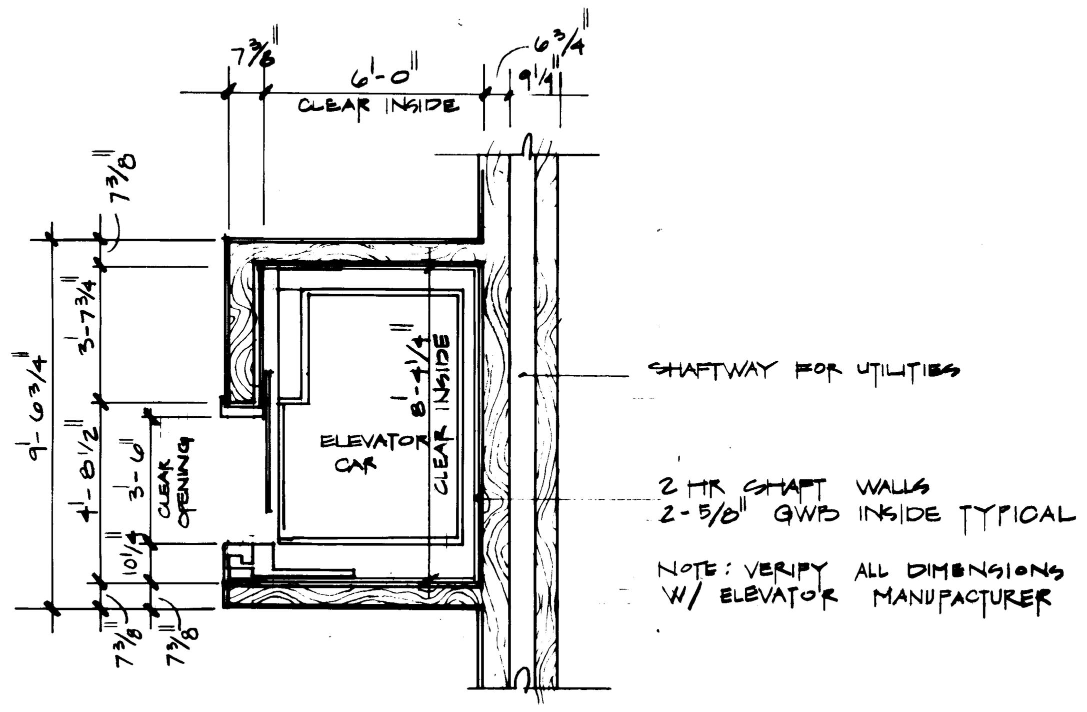
REFLECTED CIELING PLAN, THIRD LEVEL
SCALE 1/8" ::1'-0"



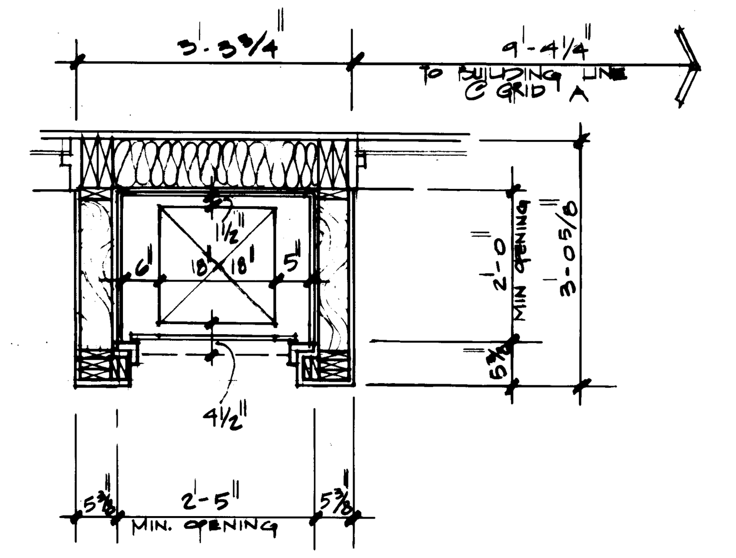
1 ELEVATOR SHAFTWAY
SCALE 1/4"=1'-0"



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



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



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

1595 REGISTERED ARCHITECT
JAMES R. McGRANAHAN
STATE OF WASHINGTON

2618 REGISTERED ARCHITECT
LYN H. MESSENGER
STATE OF WASHINGTON

McGRANAHAN, MESSENGER ASSOCIATES
ARCHITECTURE / PLANNING / INTERIORS

MARK	REVISION	BY	APP.	DATE
1	REVISED TO AS BUILT	R.J.S.		5.28.85

DRAWN DJP, MCG
DATE 4.21.84
CHECKED
DATE
CHECKED
DATE 562
CONT. NO.
FIELD BOOK (S)
APPROVED
PROJECT MANAGER 9/24/84 DATE
CHIEF ENGINEER DATE

PORT OF TACOMA
TACOMA TERMINALS, INC.
MARINE SERVICES BUILDING
THIRD LEVEL REFLECTED CEILING PLAN, & ELEVATOR PLAN & SECTION

SCALE
DRAWING NO. EP-3893-23
8-A11-10
SHEET A11-10 OF 13

OFFICE 101 FINISH SCHEDULE	FLOOR	BASE	WALL	CEILING
	12	20	36	55

OFFICE 102 FINISH SCHEDULE	FLOOR	BASE	WALL	CEILING
	12	20	36	55

BREAKRM 103 FINISH SCHEDULE	FLOOR	BASE	WALL	CEILING
	12	20	36/6	55

W TOILET 104 FINISH SCHEDULE	FLOOR	BASE	WALL	CEILING
	15	22	35	54

M TOILET 105 FINISH SCHEDULE	FLOOR	BASE	WALL	CEILING
	15	22	35	54

LOBBY 106 FINISH SCHEDULE	FLOOR	BASE	WALL	CEILING
	13	20	37	55

ELEC/MECH 107 FINISH SCHEDULE	FLOOR	BASE	WALL	CEILING
	14	20	32	53

ELEV/MECH 108 FINISH SCHEDULE	FLOOR	BASE	WALL	CEILING
	14	20	32	53

TOILETS 109 FINISH SCHEDULE	FLOOR	BASE	WALL	CEILING
	15	22	35	54

SHOWERS 110 FINISH SCHEDULE	FLOOR	BASE	WALL	CEILING
	15	22	35	57

LOCKER RM 111 FINISH SCHEDULE	FLOOR	BASE	WALL	CEILING
	15	22	36/6	54

STORAGE 112 FINISH SCHEDULE	FLOOR	BASE	WALL	CEILING
	14	20	39/6	53

OFFICE 113 FINISH SCHEDULE	FLOOR	BASE	WALL	CEILING
	12	20	33/6	55

CORRIDOR 114 FINISH SCHEDULE	FLOOR	BASE	WALL	CEILING
	12	20	36/6	55

CORRIDOR 114A FINISH SCHEDULE	FLOOR	BASE	WALL	CEILING
	12	20	36/6	55

OFFICE 115 FINISH SCHEDULE	FLOOR	BASE	WALL	CEILING
	12	20	32/6	55

TOILET 117 FINISH SCHEDULE	FLOOR	BASE	WALL	CEILING
	15	22	35	54

JAN CLOS 118 FINISH SCHEDULE	FLOOR	BASE	WALL	CEILING
	15	22	33/6	53

BREAKRM 119 FINISH SCHEDULE	FLOOR	BASE	WALL	CEILING
	12	20	37/6	55

ELEC SHOP 120 FINISH SCHEDULE	FLOOR	BASE	WALL	CEILING
	10	20	36	53

SEC STOR 120A FINISH SCHEDULE	FLOOR	BASE	WALL	CEILING
	10	20	32	55

CRANE MAIN. 121 FINISH SCHEDULE	FLOOR	BASE	WALL	CEILING
	10	20	33/36	56

SHIP STORES 122 FINISH SCHEDULE	FLOOR	BASE	WALL	CEILING
	14	20	36/6	52

SCHEDULE OF MATERIALS

FLOORS

10 Concrete Hardener & Sealer
11 Concrete - Light Broom Finish
12 V.A.T.
13 Carpet
14 Concrete - Sealer
15 Ceramic Tile

BASE

20 4" Rubber Base
22 Ceramic Tile

WALLS

32 Gypsum Wallboard Painted
33 Gypsum Wallboard Epoxy
34 Acoustic Panels
35 Ceramic Tile
36 Fiberglas Reinforced Panel Over Gypsum Wallboard
37 Gypsum Wallboard Vinyl Wall Covering
38 Wood Paneling
39 Plywood Painted

CEILINGS

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
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1	REVISED TO AS BUILT	A.J.S.		8-29-85

1595 REGISTERED ARCHITECT JAMES R. McGRANAHAN STATE OF WASHINGTON

2618 REGISTERED ARCHITECT LYN H. MESSENGER STATE OF WASHINGTON

DRAWN MCG DATE 9-21-84
CHECKED ____ DATE ____
CHECKED ____ DATE ____
CONT. NO. 562

PORT OF TACOMA

TACOMA TERMINALS, INC.

MARINE SERVICES BUILDING

INTERIOR ELEVATIONS

FIELD BOOK (S) ____ SCALE ____

APPROVED PROJECT MANAGER 9/24/84 DATE
CHIEF ENGINEER DATE

DRAWING NO. EP-3893-23 6-A11-11

SHEET A11-11 OF 13

STOR. 122A	FLOOR	BASE	WALL	CEILING
FINISH SCHEDULE	10	20	36/1	53

OFFICE123	FLOOR	BASE	WALL	CEILING
FINISH SCHEDULE	12	20	32	55

CORRIDOR 100	FLOOR	BASE	WALL	CEILING
FINISH SCHEDULE	12	20	36	55

JAN CLOS 105A	FLOOR	BASE	WALL	CEILING
FINISH SCHEDULE	15	22	32/1	53

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

OFFICE 116	FLOOR	BASE	WALL	CEILING
FINISH SCHEDULE	12	20	32	55

OFFICE201	FLOOR	BASE	WALL	CEILING
FINISH SCHEDULE	13	20	32	55

OFFICE202	FLOOR	BASE	WALL	CEILING
FINISH SCHEDULE	13	20	32	55

OFFICE 203	FLOOR	BASE	WALL	CEILING
FINISH SCHEDULE	13	20	32/6	55

OFFICE204	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	32/6	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

N TOILET 214	FLOOR	BASE	WALL	CEILING
FINISH SCHEDULE	13	22	35	54

W TOILET 215	FLOOR	BASE	WALL	CEILING
FINISH SCHEDULE	13	22	35	54

CONF 216	FLOOR	BASE	WALL	CEILING
FINISH SCHEDULE	13	20	32/6	55

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

STORAGE 218	FLOOR	BASE	WALL	CEILING
FINISH SCHEDULE	12	20	32	53

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

WRKROOM 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

JAN CLST 224	FLOOR	BASE	WALL	CEILING
FINISH SCHEDULE	15	22	33/1	53

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

CORIDOR 226	FLOOR	BASE	WALL	CEILING
FINISH SCHEDULE	13	20	37	55

WAITING RM	FLOOR	BASE	WALL	CEILING
FINISH SCHEDULE	13	20	37	55

1595 REGISTERED ARCHITECT JAMES R. MCGRANAHAN STATE OF WASHINGTON

2618 REGISTERED ARCHITECT LYNN H. MESSENGER STATE OF WASHINGTON

MCGRANAHAN, MESSENGER ASSOCIATES
ARCHITECTURE / PLANNING / INTERIORS
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1	REVISED TO AS BUILT	A.J.S.		8-24-85

DRAWN DJF, MCG
DATE
CHECKED
DATE
CHECKED
DATE
CONT. NO. 332
FIELD BOOK (S)
APPROVED
PROJECT MANAGER — DATE 9/24/84
CHIEF ENGINEER — DATE

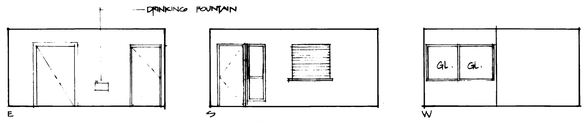
PORT OF TACOMA

TACOMA TERMINALS, INC.
MARINE SERVICES BUILDING
INTERIOR ELEVATIONS

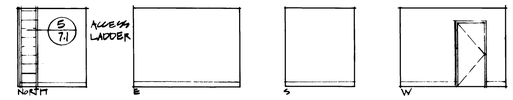
SCALE

DRAWING NO. EP-3893-23 6-A11-12

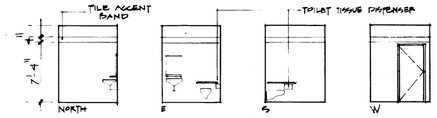
SHEET A11-12 OF 13



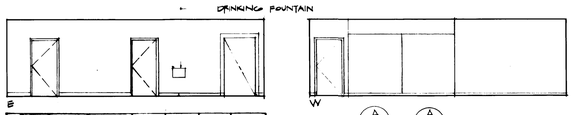
200 CONT.	FLOOR	BASE	WALL	CEILING
FINISH SCHEDULE	13	20	37	55



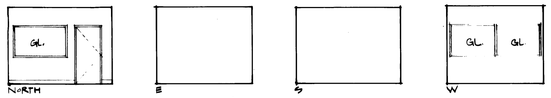
STORAGE 302	FLOOR	BASE	WALL	CEILING
FINISH SCHEDULE	12	20	32	53



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



CORRIDOR 304	FLOOR	BASE	WALL	CEILING
FINISH SCHEDULE	13	20	37	55



OFFICE 305	FLOOR	BASE	WALL	CEILING
FINISH SCHEDULE	13	20	32	55

SCHEDULE OF MATERIALS

FLOORS

10 Concrete Hardener & Sealer
11 Concrete - Light Broom Finish
12 V.A.T.
13 Carpet
14 Concrete - Sealer
15 Ceramic Tile

BASE

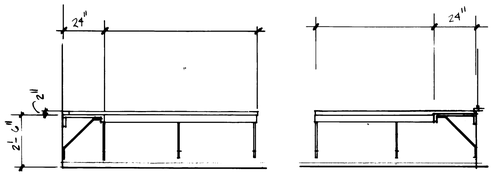
20 4" Rubber Base
22 Ceramic Tile

WALLS

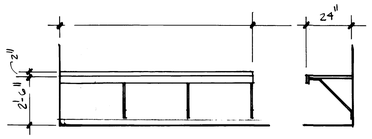
32 Gypsum Wallboard Painted
33 Gypsum Wallboard Epoxy
34 Acoustic Panels
35 Ceramic Tile
36 Fiberglas Reinforced Panel Over Gypsum Wallboard
37 Gypsum Wallboard Vinyl Wall Covering
38 Wood Paneling
39 Plywood Painted

CEILINGS

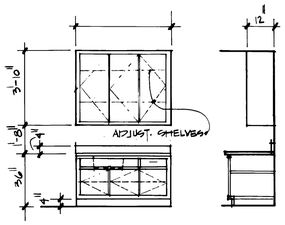
52 Structure Painted
53 Gypsum Wallboard Painted/Suspended
54 12x12 Acoustic Panels Over Gypsum Wallboard
55 24x48 Acoustic Panels Suspended
56 Exposed Structure
57 Ceramic Tile



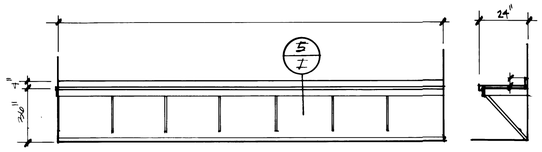
OFFICE COUNTER RM101



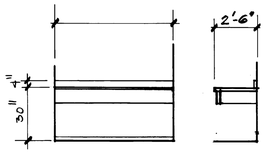
OFFICE COUNTER RM 102



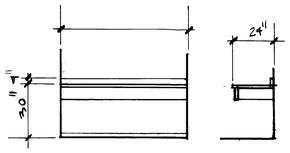
BREAKRM 119 CABINET



ELEC SHOP COUNTER RM120



RESTROOM 214 COUNTER



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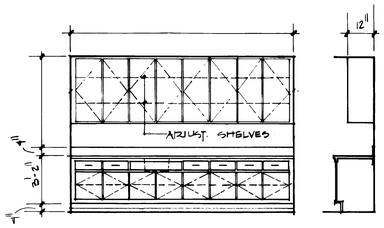
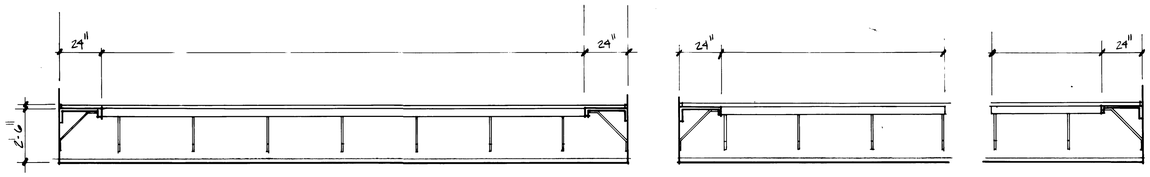
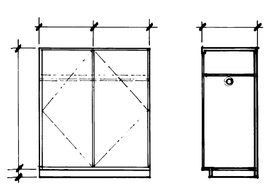


BREAKRM 213 CABINET

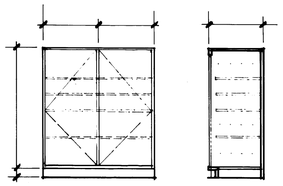


COUNTERS IN ROOMS 101. 102. 119. 214. 216
213 301 307 & 117 SHALL BE PLASTIC
LG

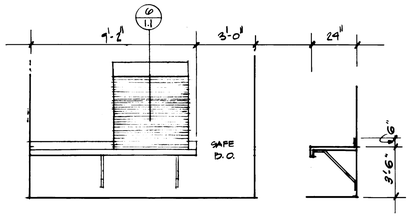
OFFICE 301 COUNTER



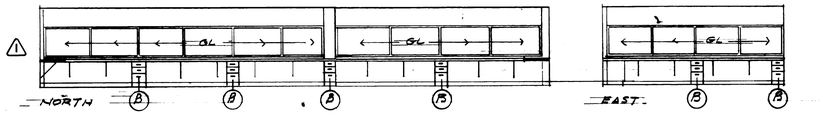
STORAGE CABINET A

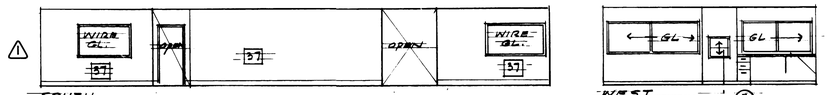


STORAGE CABINET B

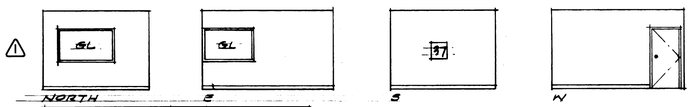


RAYMASTER RM 117 COUNTER

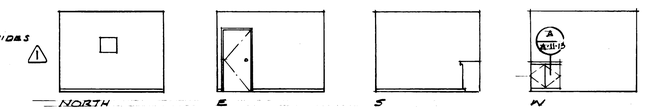




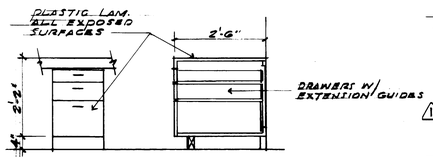
OFFICE 301	FLOOR	BASE	WALL	CEILING
FINISH SCHEDULE	13	20	33	56



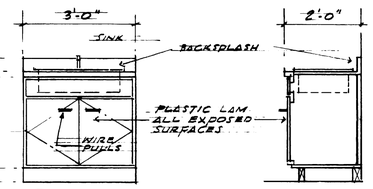
OFFICE 306 A	FLOOR	BASE	WALL	CEILING
FINISH SCHEDULE	13	20	32	55



CONF 307	FLOOR	BASE	WALL	CEILING
FINISH SCHEDULE	13	20	33	55



B OFFICE 301 FILE CABINET
SCALE 1/2"=1'-0" 7 UNITS REQ'D.



A CONFERENCE 307 CABINET
SCALE 1/2"=1'-0"

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MARK	REVISION	BY	APP.	DATE
1	REVISED TO AS BUILT			

REGISTERED ARCHITECT 1595 JAMES R. McGRANAHAN STATE OF WASHINGTON

REGISTERED ARCHITECT 2618 LYN H. MESSENGER STATE OF WASHINGTON

DRAWN RJP.MCG
DATE 9-21-84
CHECKED
DATE
CHECKED
DATE
CONT. NO. 562
FIELD BOOK (S)

PORT OF TACOMA

TACOMA TERMINALS, INC.

MARINE SERVICES BUILDING

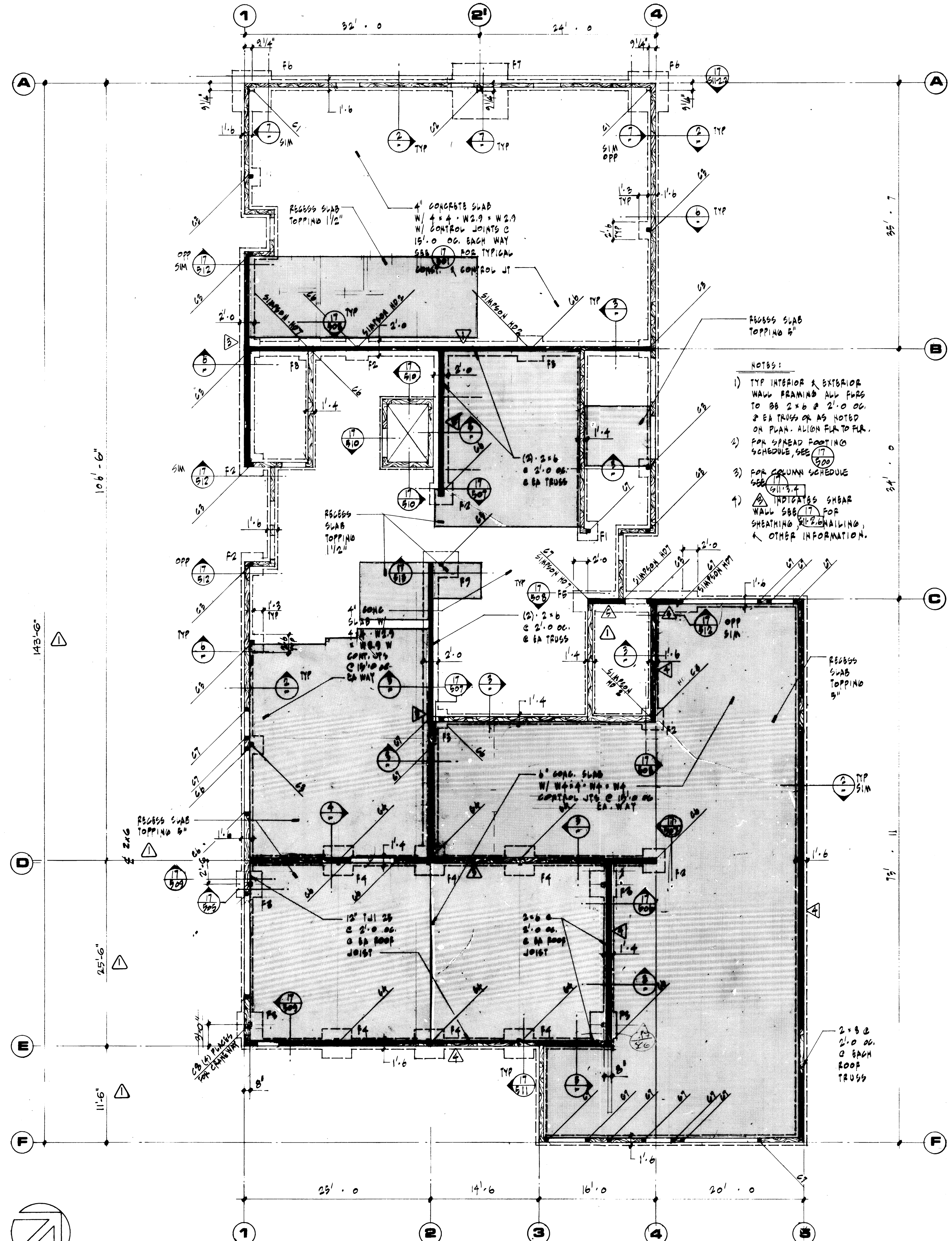
INTERIOR ELEVATIONS & CABINET DETAILS

SCALE

APPROVED
PROJECT MANAGER — DATE 9/24/84
CHIEF ENGINEER — DATE

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

SHEET A11-13 OF 13

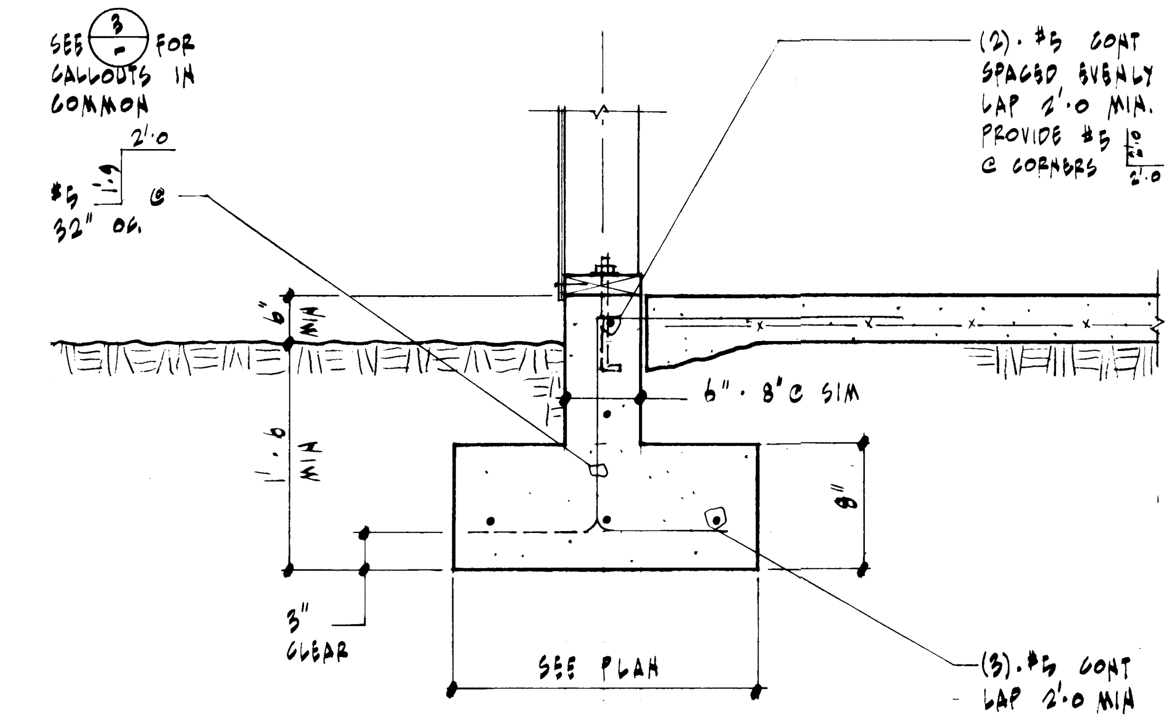


FOUNDATION PLAN 1

1/8" = 1'-0

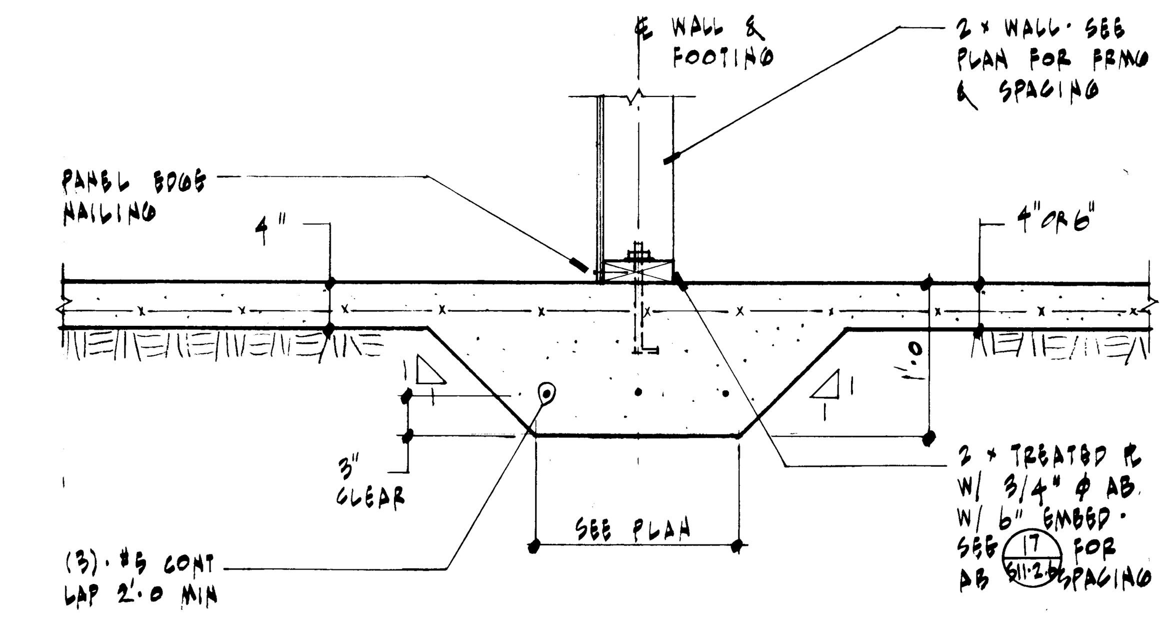
NOTES:

1) TYP INTERIOR & EXTERIOR WALL FRAMING ALL FLRS TO BE 2×6 @ 2'-0 OC. @ EA TRUSS OR AS NOTED ON PLAN. ALIGN FLR TO FLR.
2) FOR SPREAD FOOTING SCHEDULE, SEE 17/500
3) FOR COLUMN SCHEDULE SEE 17/S11-3.4
4) △ INDICATES SHEAR WALL SEE 17/S11-2.6 FOR SHEATHING, NAILING, & OTHER INFORMATION.



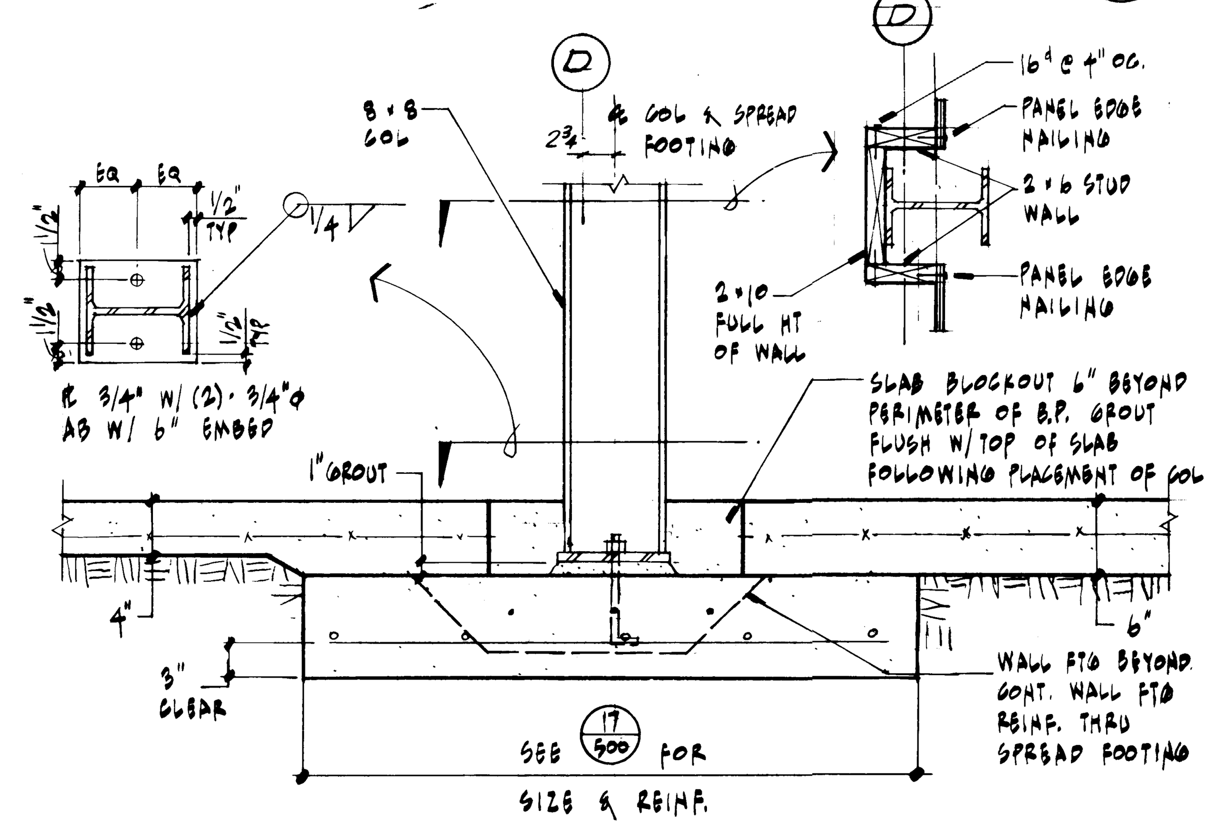
SECTION 2

1" = 1'-0



SECTION 3

1" = 1'-0



SECTION 4

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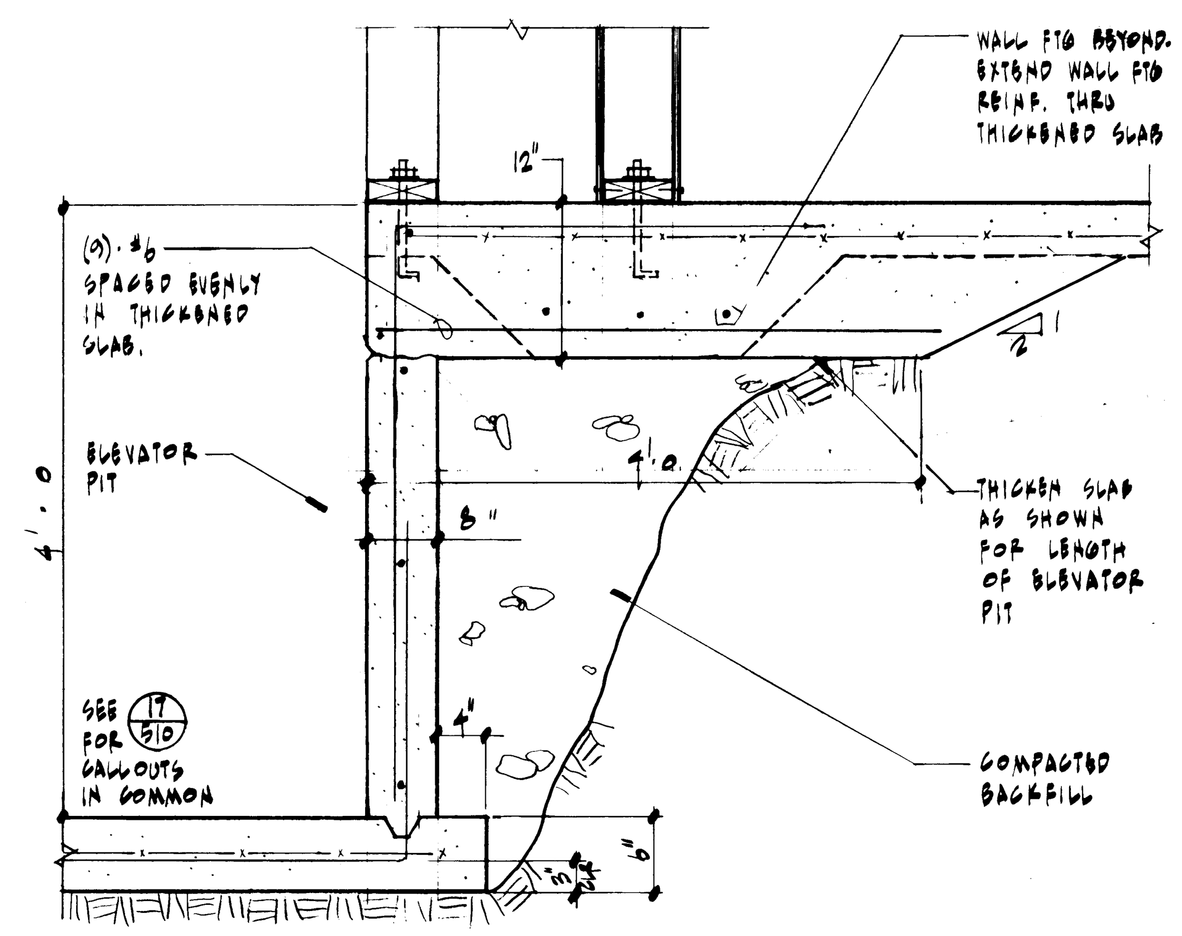
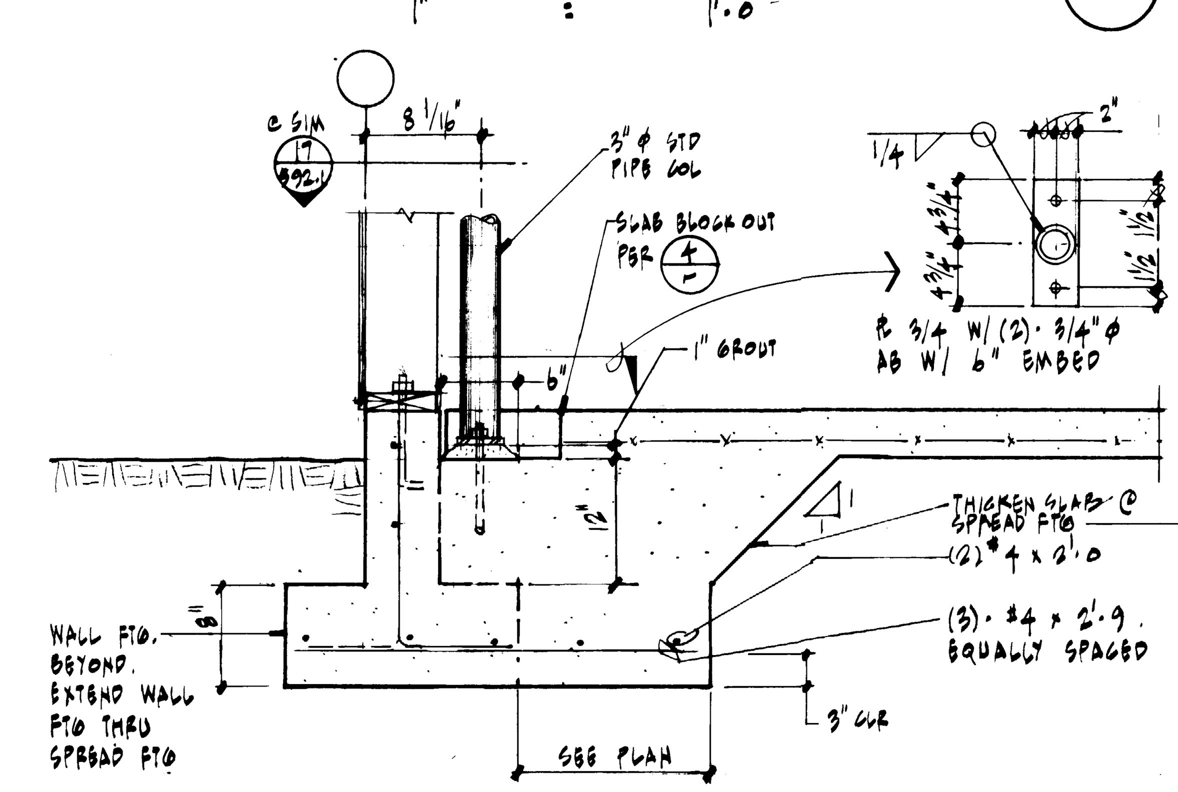


SECTION 5

1" = 1'-0



SECTION 6

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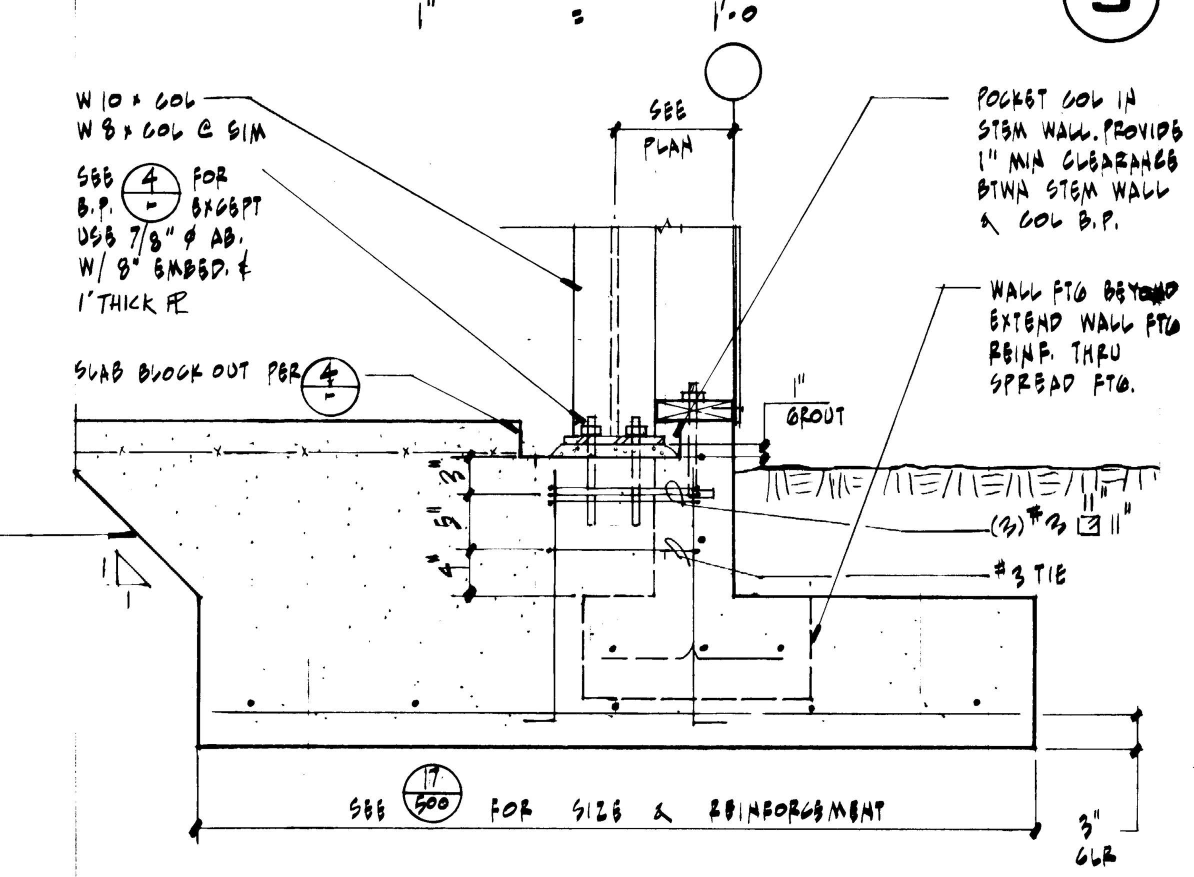

SECTION 7

1" = 1'-0

NOEL R. ADAMS — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

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

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

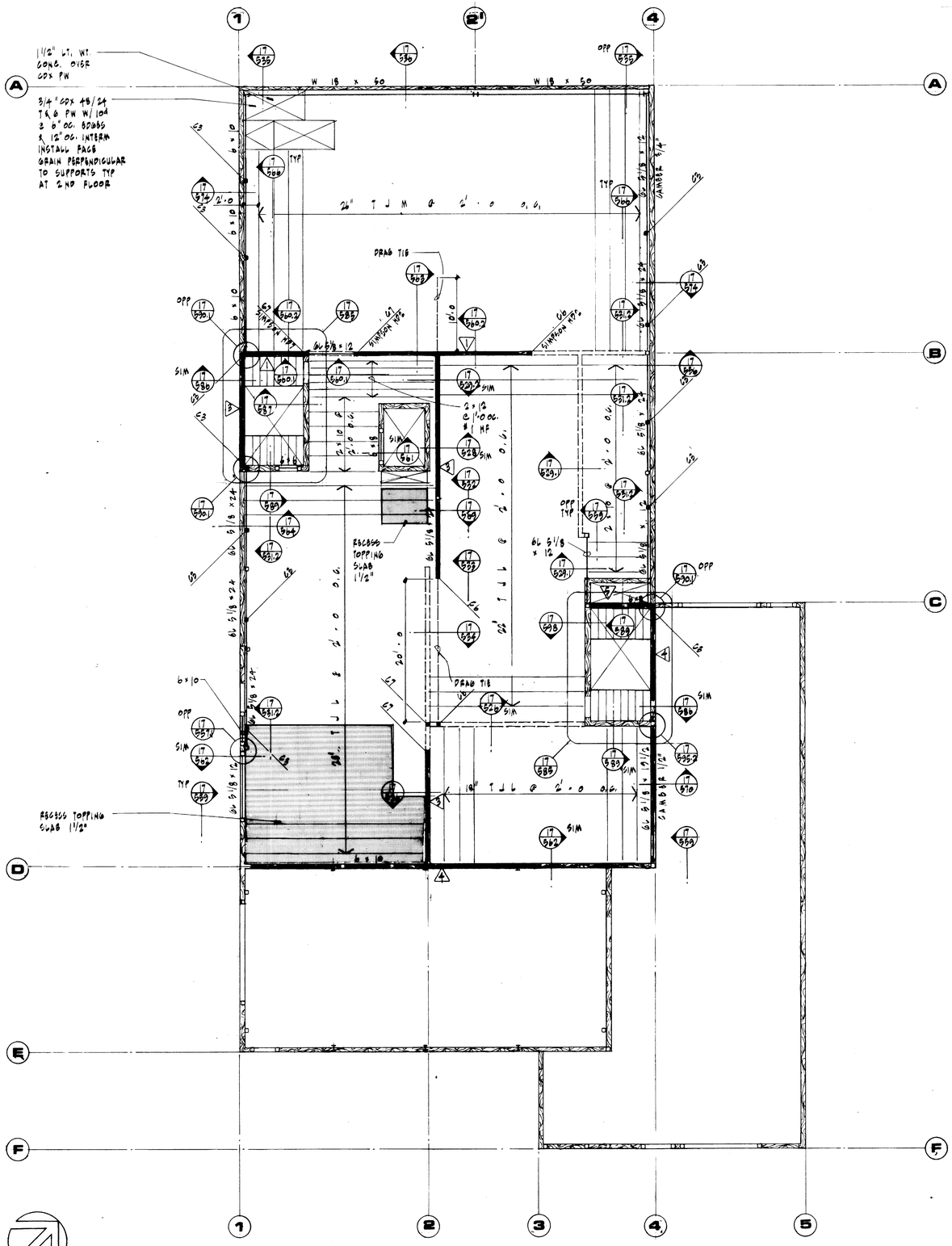
DRAWN ____ DATE 9-21-84
CHECKED ____ DATE ____
CHECKED ____ DATE ____
CONT. NO. 562
FIELD BOOK (S) ____
APPROVED ____ PROJECT MANAGER 9/24/84 DATE
CHIEF ENGINEER 4 DATE

PORT OF TACOMA

TACOMA TERMINALS, INC.

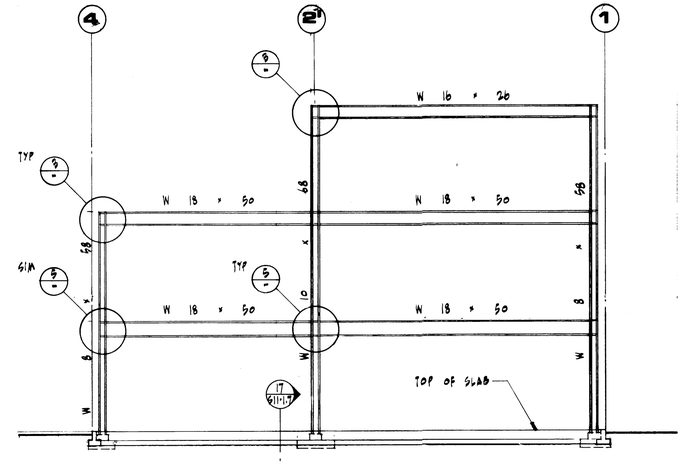
MARINE SERVICES BUILDING
FOUNDATION PLAN & DETAILS

SCALE ____
DRAWING NO. EP-3893-23
6-S11+1
SHEET S11-1 OF 3



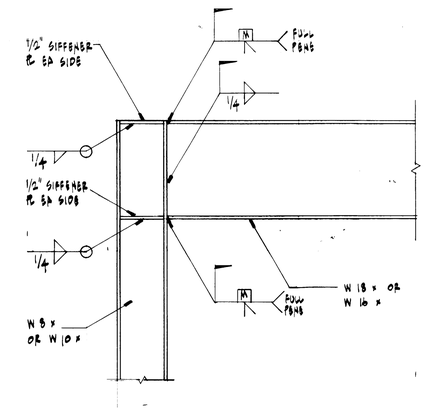
SECOND FLOOR FRAMING PLAN 1

1/8" = 1'-0



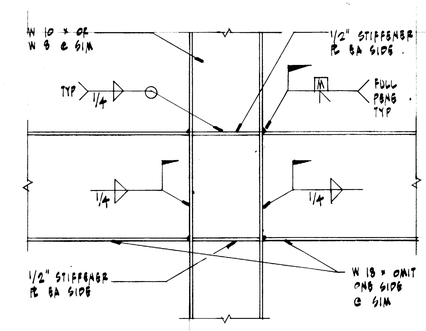
ELEVATION 2

1/8" = 1'-0



DETAIL 3

1" = 1'-0



DETAIL 5

1" = 1'-0

COLUMN SCHEDULE 4

MARK	COLUMN SECTION	REMARKS
C1	W 8 x 58	
C2	W 10 x 68	
C3	3" ϕ 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/ (3) 2 x STUDS	USE 2 x 6, OR 2 x 12 STUDS TO MATCH WALL FRAMING
C8	TS 5 x 5 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	10d @ 4" OC. EDGES & 10d @ 12" OC. INTERM	2'-0 O.C.	BLOCK ALL HORIZ. PLYWOOD JOINTS
2	1/2" CDX EA SIDE OF WALL	10d @ 6" OC. EDGES & 10d @ 12" OC. INTERM	N/A	DO
3	1/2" CDX (1) SIDE OF WALL	10d @ 4" OC. EDGES & 10d @ 12" OC. INTERM	4'-0 O.C.	DO
4	1/2" CDX (1) SIDE OF WALL	10d @ 6" OC. EDGES & 10d @ 12" OC. INTERM	4'-0 O.C.	DO
5	1/2 CDX EA SIDE OF WALL	10d @ 3" OC STAGGERED EDGES 10d @ 12" OC INTERM	1'-0 OC.	BLOCK ALL HORIZ PW JTS PROVIDE EDL STUDS @ VERT PANEL EDGES

* PERTAINS TO GROUND FLOOR WALLS. ALL AB TO BE 5/8" 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. PER TYPE 1 EXCEPT BLOCKING @ HORIZONTAL PW EDGES NOT REQ'D.

NODEL R. ADAMS — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

7

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Adams, Hodsdon & Associates, Inc., Structural Engineers
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DATE 9-21-84
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DATE
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DATE
CONT. NO. 582

PORT OF TACOMA

TACOMA TERMINALS, INC.

MARINE SERVICES BUILDING

SECOND FLOOR FRAMING PLAN

FIELD BOOK(S)
SCALE
APPROVED — CHIEF ENGINEER — 9/24/84 DATE
DRAWING NO. EP-3893-23 6-S11-2
SHEET S11-2 OF 3

MARK	REVISION	BY	APP.	DATE
	NO. AS BUILT CHANGES	R.J.S		8-29-85

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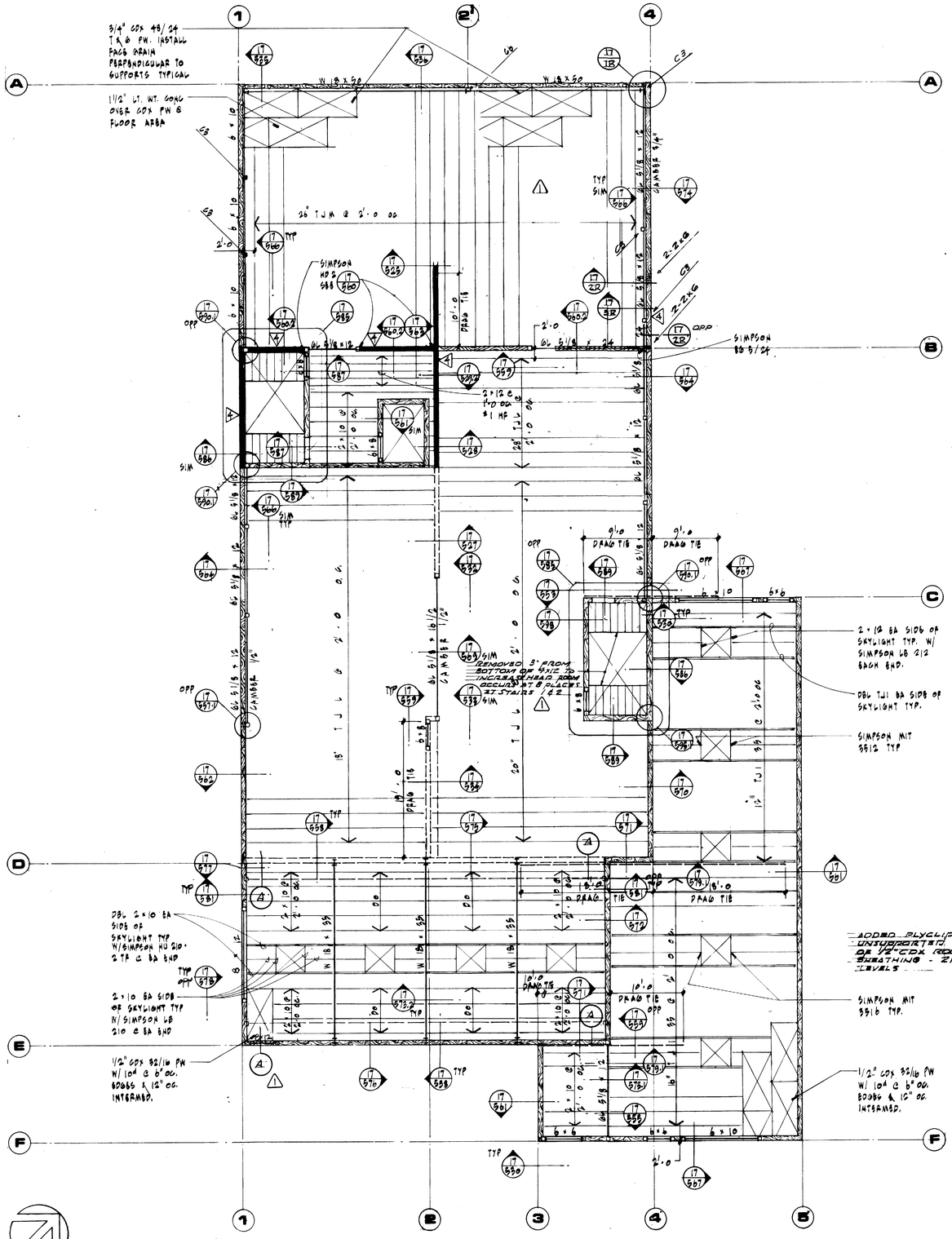
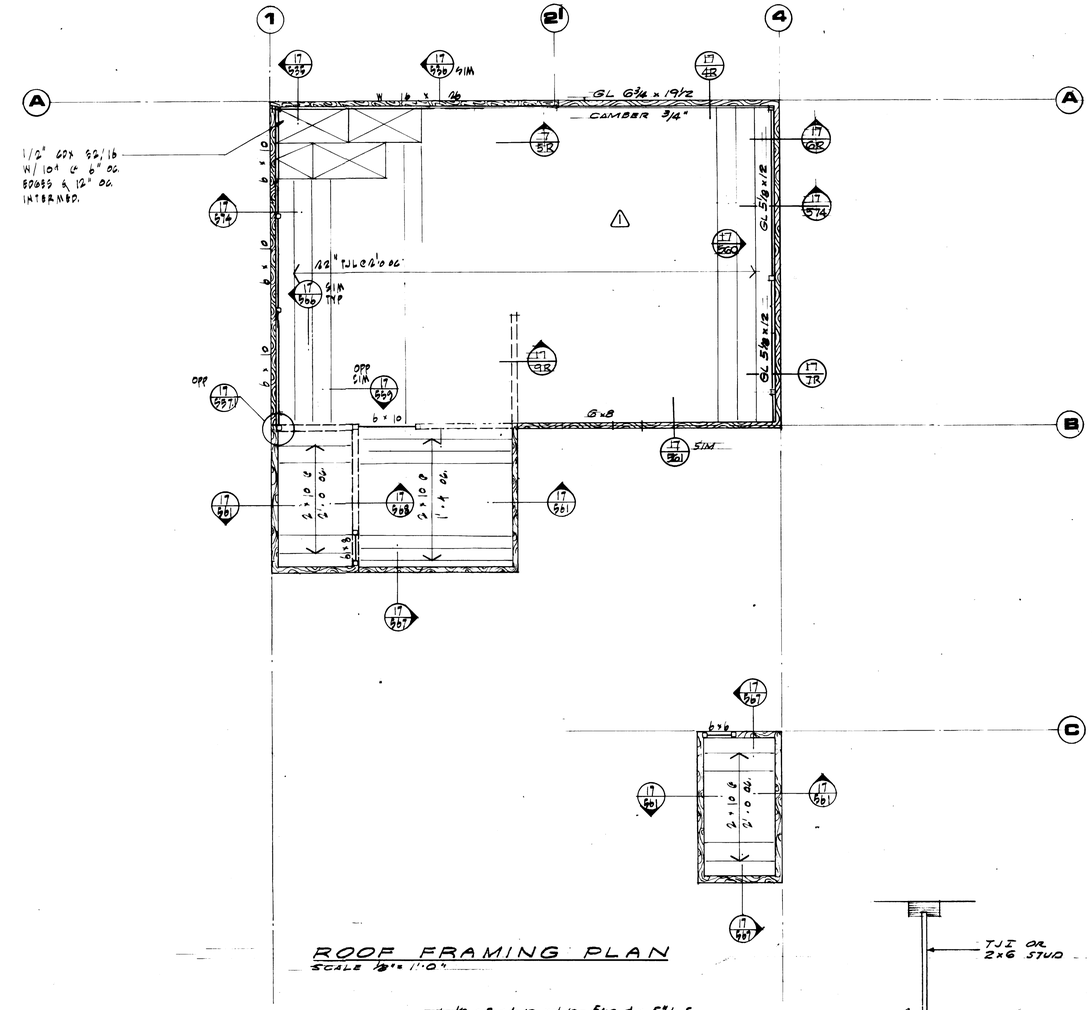


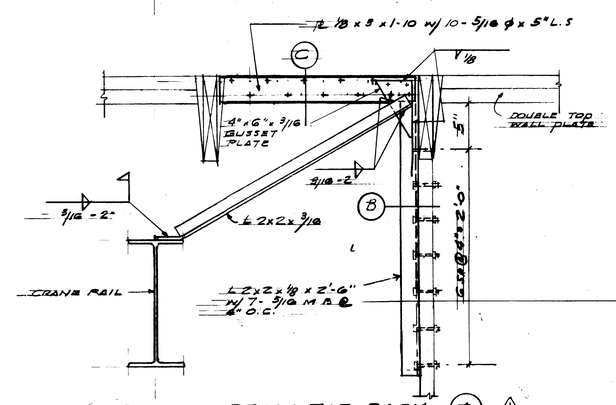
THIRD FLOOR & ROOF FRAMING PLAN

1/8" = 1'-0



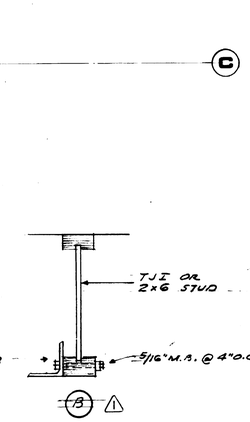
ROOF FRAMING PLAN

SCALE 1/8" = 1'-0"



CRANE BEAM TIE BACK

2 PLACES



NOEL R. ADAMS STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER

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MARK	REVISION	BY	APP.	DATE
1	REVISED TO AS BUILT	R.J.S.		4-30-85

DRAWN
DATE 9-21-84
CHECKED
DATE
CHECKED
DATE
CONT. NO. 882
FIELD BOOK (S)
APPROVED 9/24/84 DATE
CHIEF ENGINEER

PORT OF TACOMA

TACOMA TERMINALS, INC.

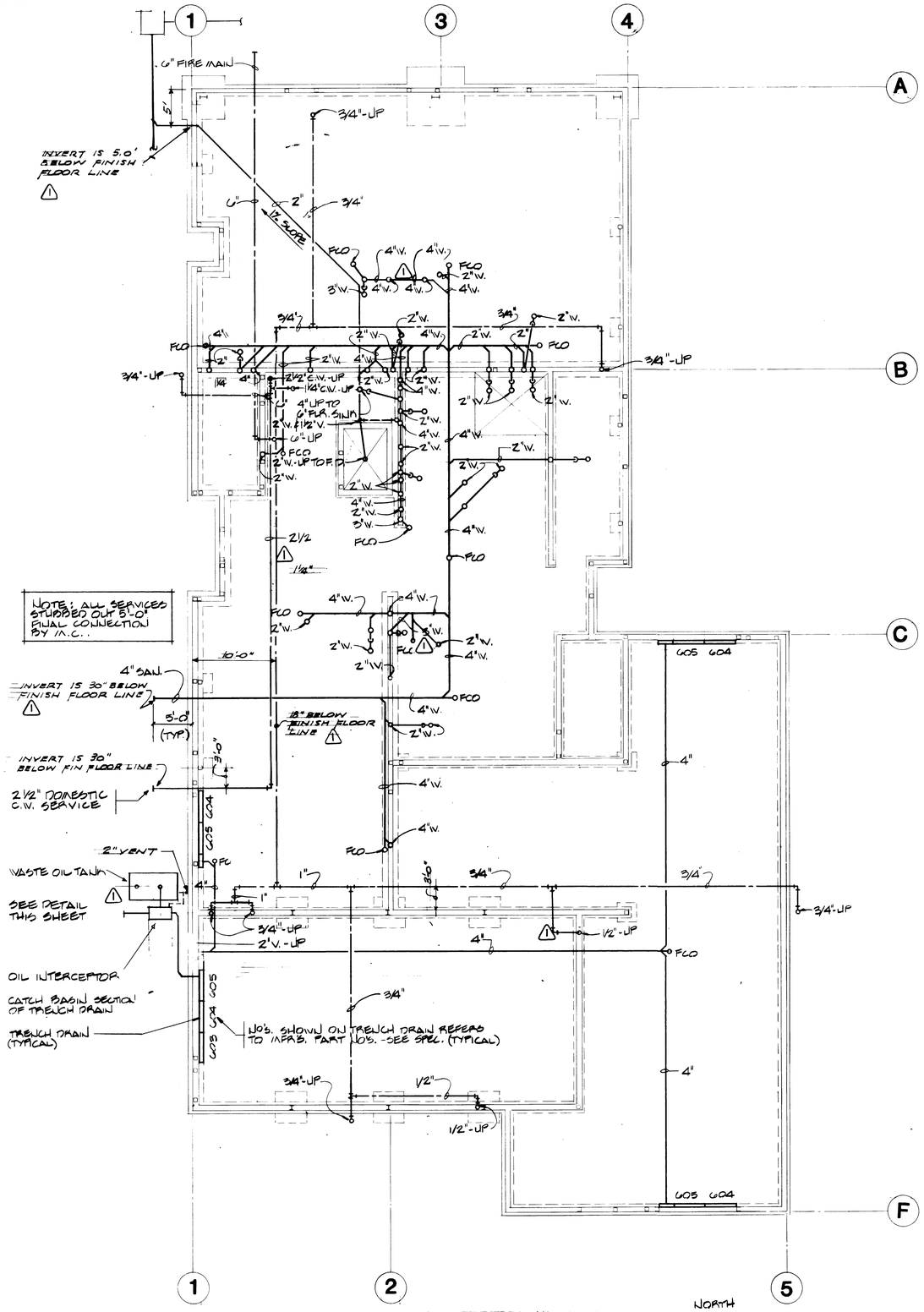
MARINE SERVICES BUILDING

THIRD FLOOR & ROOF FRAMING PLANS

SCALE

DRAWING NO. EP-3993-23 6-S11-3

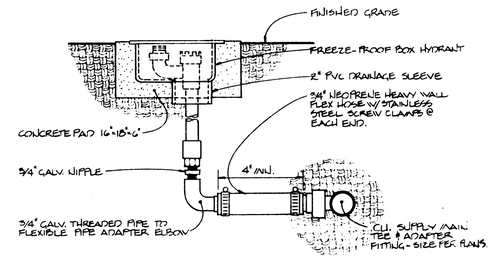
SHEET S11-3 OF 3



FOUNDATION PLAN

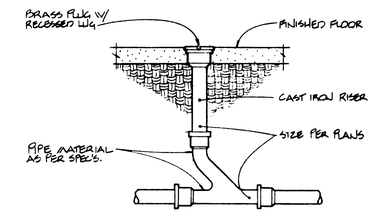
SCALE: 1/8" = 1'-0"

NORTH



BOX HYDRANT DETAIL

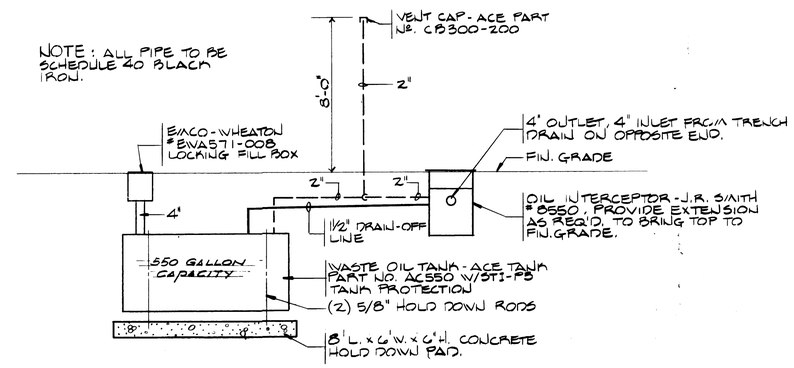
NO SCALE



FLOOR CLEANOUT DETAIL

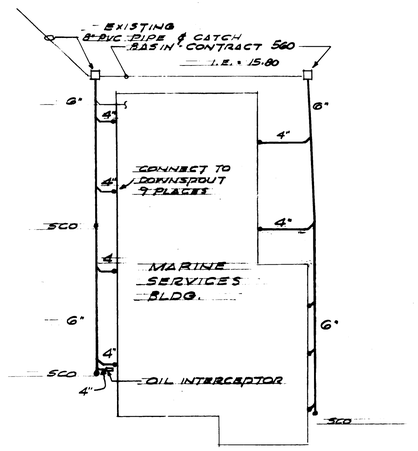
NO SCALE

NOTE: ALL PIPE TO BE SCHEDULE 40 BLACK IRON.



OIL INTERCEPTOR DETAIL

NO SCALE



STORM DRAINAGE PLAN

SCALE 1" = 30'-FT

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

DRAWN ____ DATE ____
CHECKED ____ DATE ____
CHECKED ____ DATE ____
CONT. NO. 562

PORT OF TACOMA

TACOMA TERMINALS, INC.

MARINE SERVICES BUILDING

MECHANICAL FOUNDATION PLAN

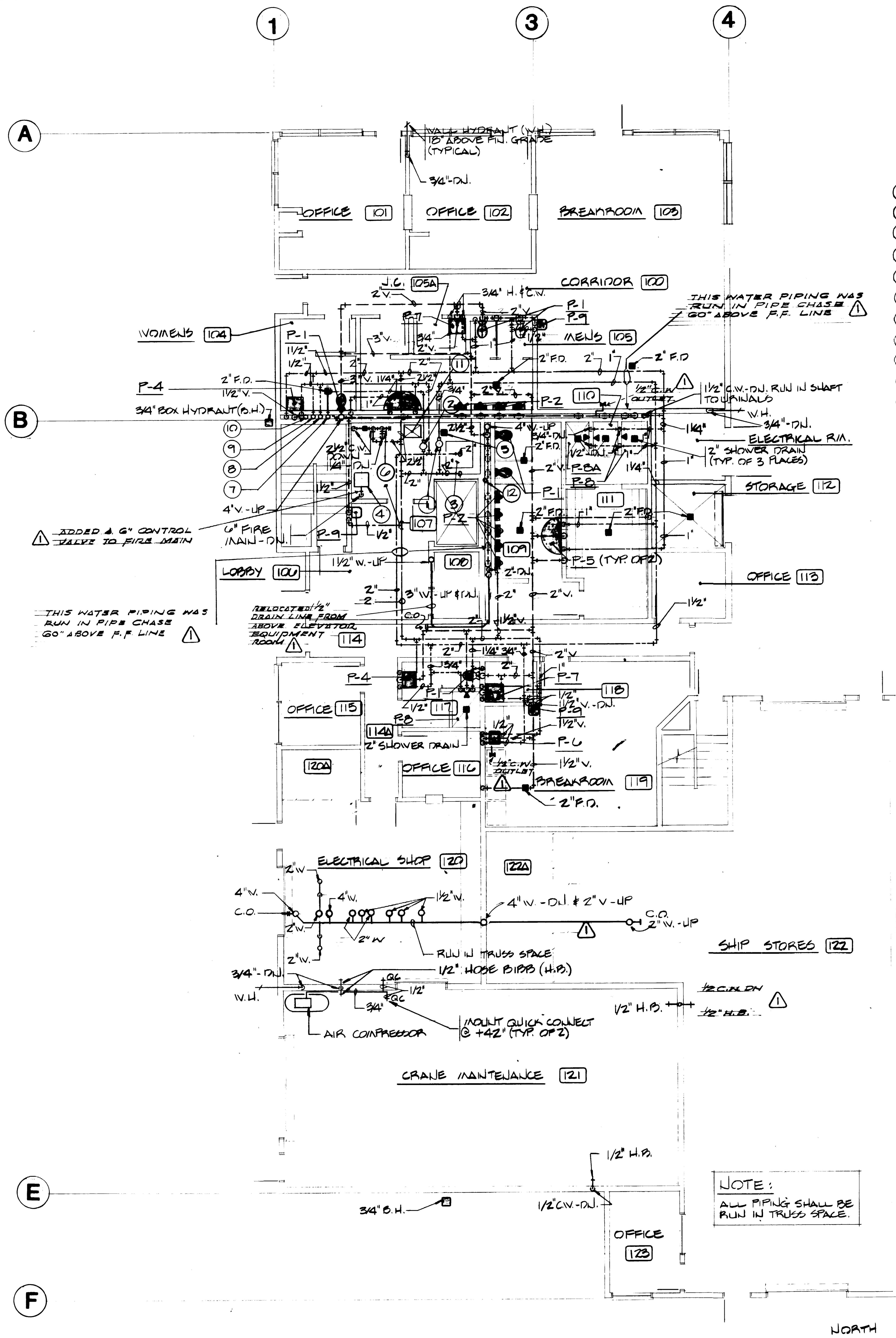
FIELD BOOK (S) ____

APPROVED ____ PROJECT MANAGER — 9/24/84 DATE
____ CHIEF ENGINEER — " DATE

SCALE ____

DRAWING NO. EP-5503-23 6-M11-1

SHEET M11-1 OF 8



FIRST FLOOR PLAN-PLUMBING

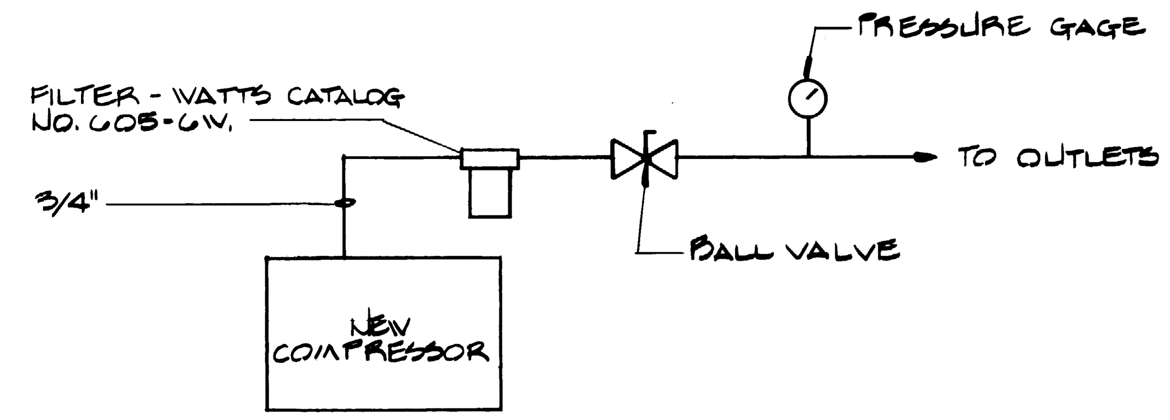
SCALE: 1/8" = 1'-0"

BUBBLE NOTES

1. HOT WATER CIRCULATING PUMP (HWC-1), 1/12 HP-120V.
2. HOT WATER CIRCULATING PUMP (HWC-2), 1/6 HP-120V.
3. H.W. TANK #1, 250 GALLON (2) 12KW-480V-3Φ HEATERS
4. FIRE SPRINKLING VALVE
5. 6" FLOOR SINK
6. COLD WATER HEADER - SEE DETAIL
7. 1 1/4" 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.

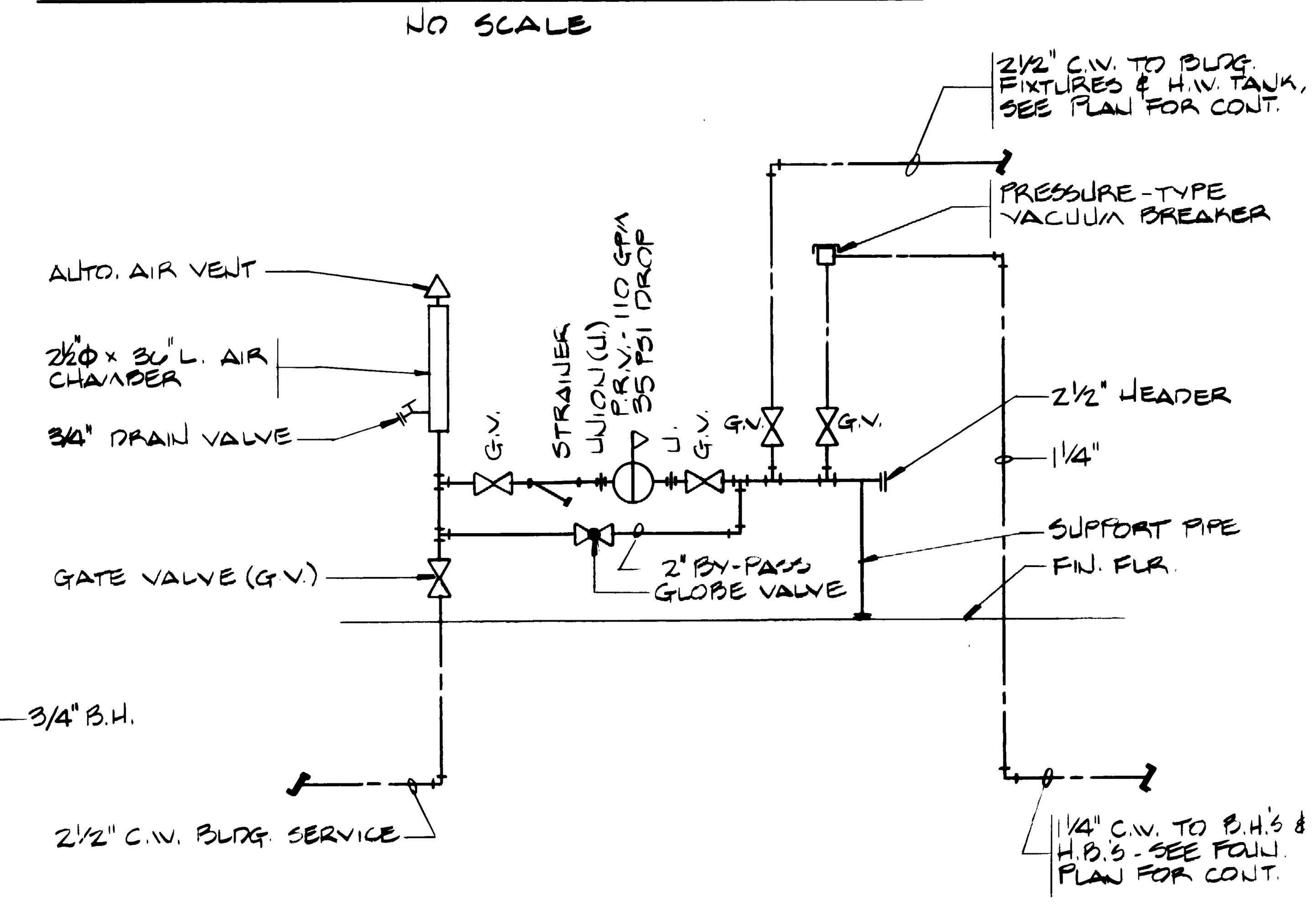
PLUMBING FIXTURE SCHEDULE

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



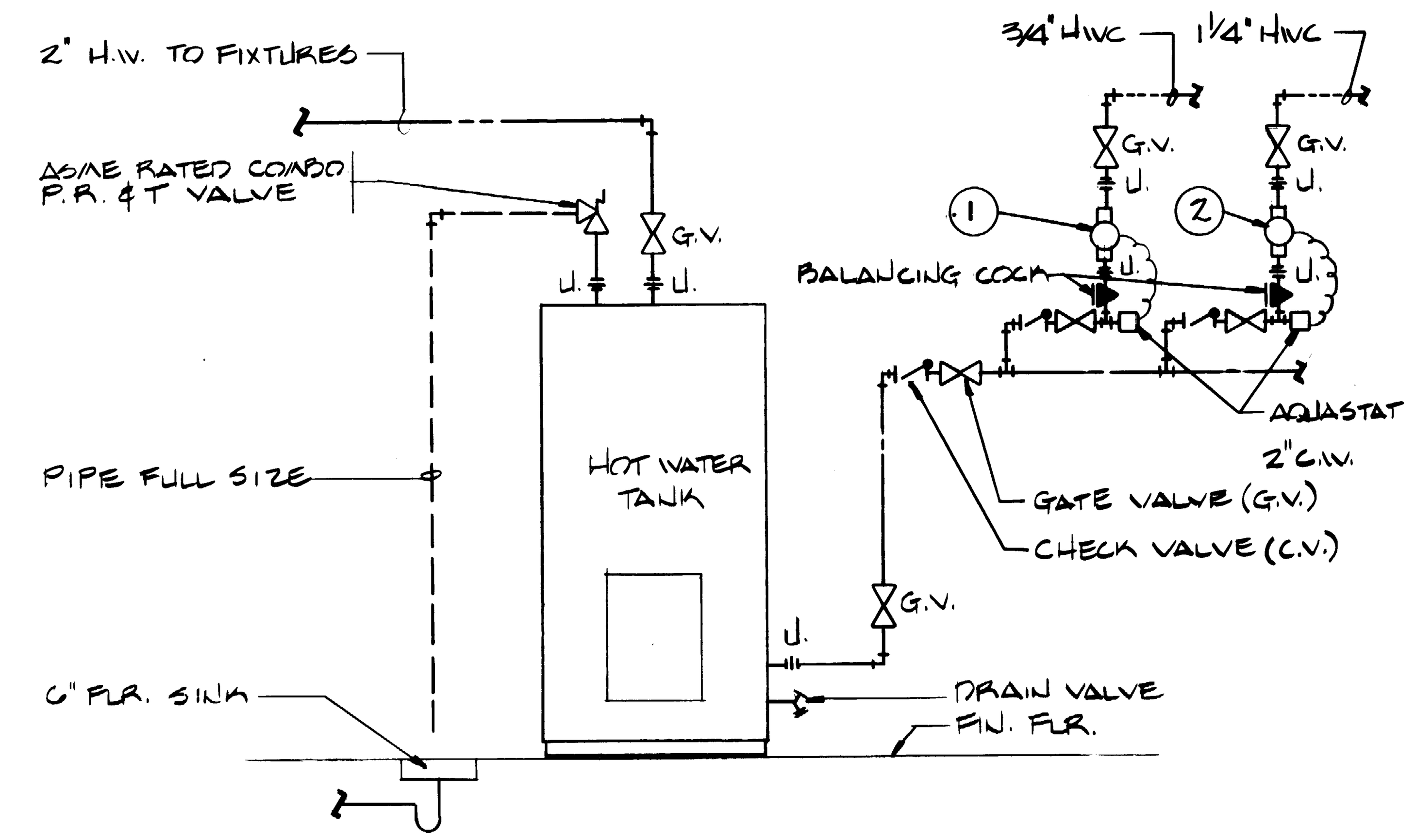
COMPRESSED AIR DIAGRAM

NO SCALE



COLD WATER HEADER DETAIL

NO SCALE



HOT WATER TANK DETAIL

NO SCALE

ADOLFO KOENIG — PROFESSIONAL ENGINEER — STATE OF WASHINGTON

MARK	REVISION	BY	APP.	DATE
⚠	REVISED TO AS BUILT	R.J.S.		9-4-85

DRAWN ___ DATE ___
CHECKED ___ DATE ___
CHECKED ___ DATE ___
CONT. NO.
FIELD BOOK (S)
APPROVED — PROJECT MANAGER — DATE 9/24/84
CHIEF ENGINEER — DATE

PORT OF TACOMA

TACOMA TERMINALS, INC.

MARINE SERVICES BUILDING

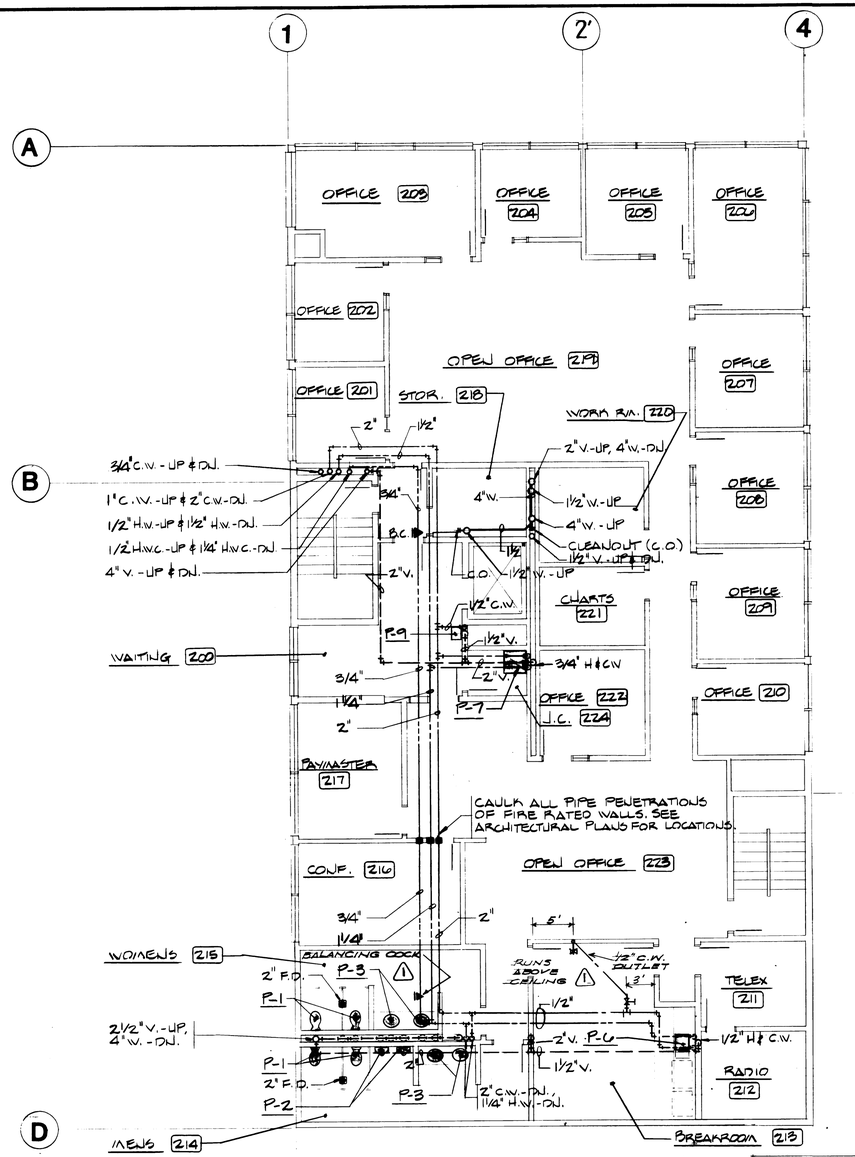
FIRST FLOOR PLUMBING PLAN

SCALE

DRAWING NO. EP-3893-23

6-M11-2

SHEET M11-2 OF 8

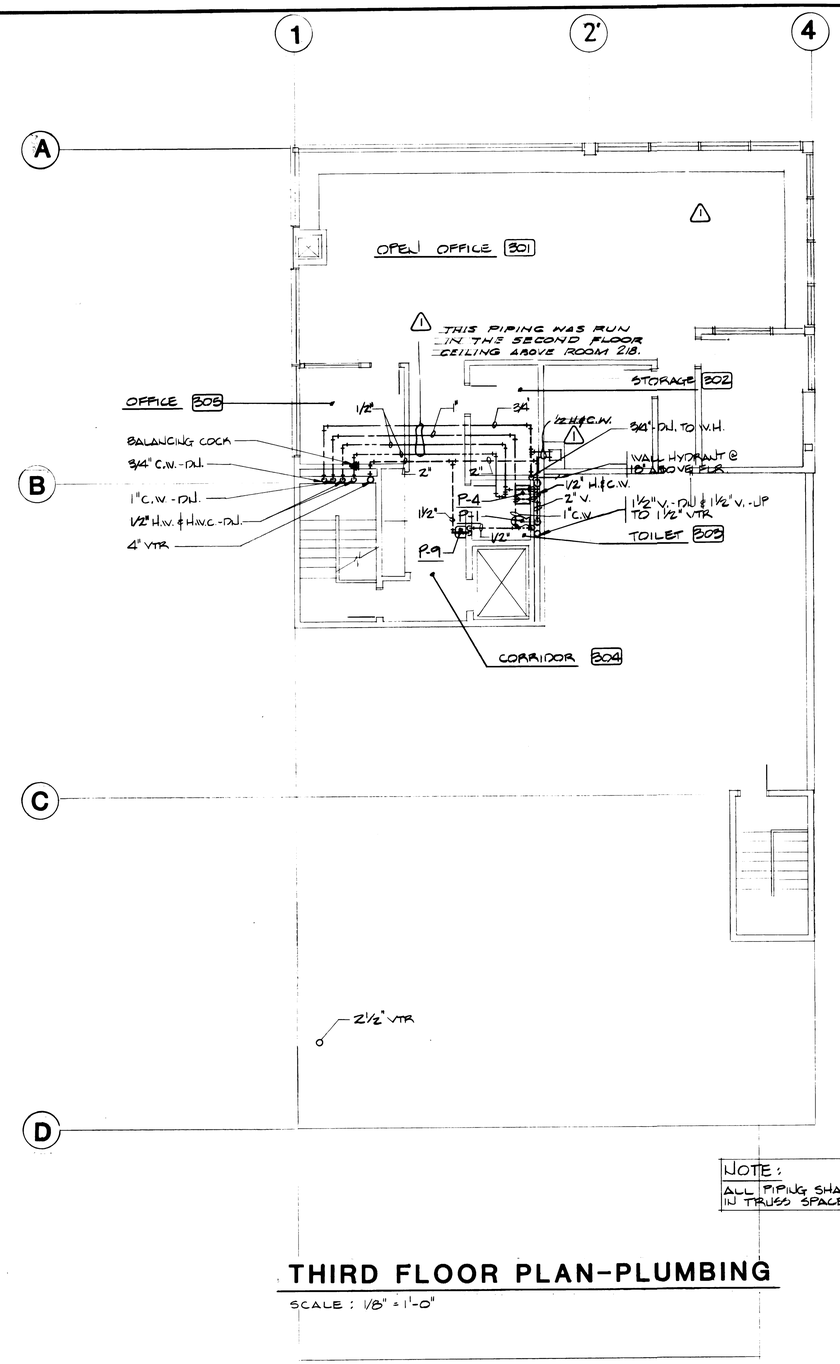


NOTE:
ALL PIPING SHALL BE RUN IN TRUSS SPACE.

SECOND FLOOR PLAN-PLUMBING

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

NORTH



NOTE:
ALL PIPING SHALL BE RUN IN TRUSS SPACE

THIRD FLOOR PLAN-PLUMBING

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

NORTH

MARK	REVISION	BY	APP.	DATE
1	REVISED TO AS BUILT	R.J.S		9-4-85

ADOLFO KOENIG — PROFESSIONAL ENGINEER

DRAWN ____ DATE ____
CHECKED ____ DATE ____
CHECKED ____ DATE ____
CONT. NO. 562

PORT OF TACOMA

TACOMA TERMINALS, INC.

MARINE SERVICES BUILDING

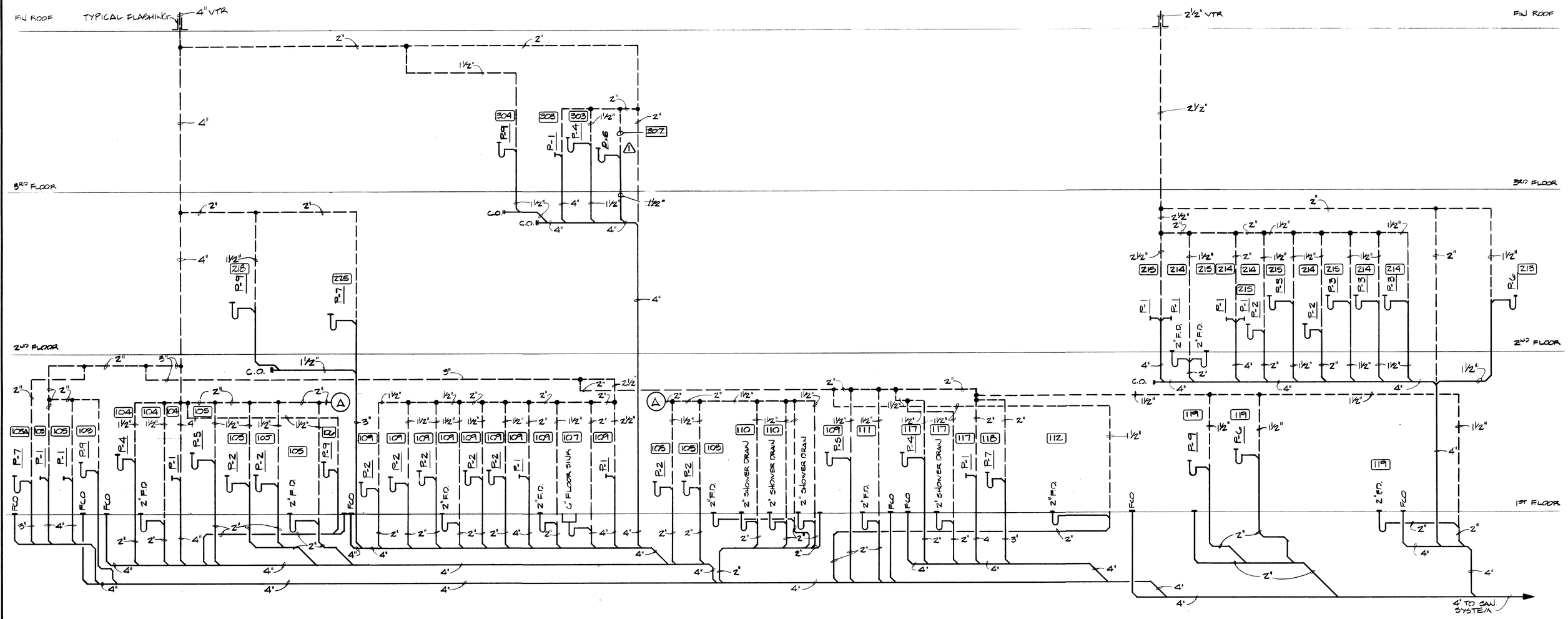
SECOND & THIRD FLOOR PLUMBING PLANS

FIELD BOOK (S) ____ SCALE ____

APPROVED ____ PROJECT MANAGER ____ DATE 9/24/84
" ____ CHIEF ENGINEER ____ DATE ____

DRAWING NO. EP-3893-23 6-M11-3

SHEET M11-3 OF 8



PLUMBING RISER DIAGRAM

NO SCALE

MARK	REVISION	BY	APP.	DATE
1	REVISED TO AS-BUILT	R.J.S		9-5-86

DRAWN ____ DATE ____
CHECKED ____ DATE ____
CHECKED ____ DATE ____
CONT. NO. 582

PORT OF TACOMA

TACOMA TERMINALS, INC.

MARINE SERVICES BUILDING

PLUMBING RISER DIAGRAM

FIELD BOOK (S) ____ SCALE ____

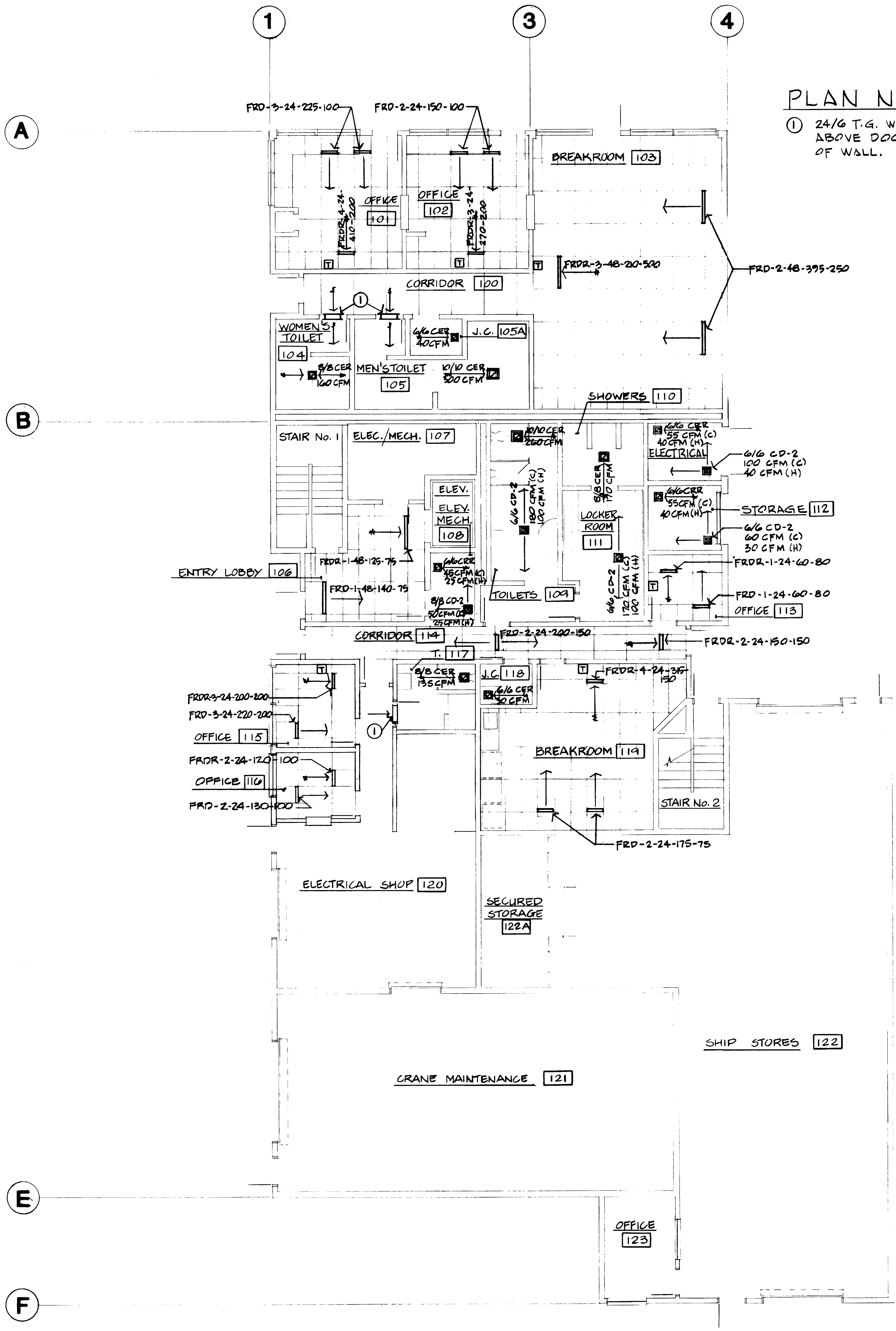
APPROVED

PROJECT MANAGER — DATE 9/24/84

CHIEF ENGINEER — DATE

DRAWING NO. EP-3893-23 6-M11-4

SHEET M11-4 OF 8



FIRST FLOOR REFLECTED CEILING PLAN

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

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	% OPEN TO COLD DUCT
A	HFB	TEMPMASTER	530	210	1/12	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			130	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				O.D. UNIT							S.P.	MOTOR HP	ELECT.			
			INDOOR	OUTDOOR	CFM	EWB	EAT	TOTAL COOLING	SENSIBLE COOLING	COMP. WATTS	OUTDOOR D.B.	VOLTS	Φ	OUTDOOR EAT	TOTAL HEAT'G CAPACITY BTU/HR	COMPRESSOR WATTS INPUT	AUX. ELECT. HEAT'G KW/V./Φ				V.	Φ		
1	3RD FLR. MARINE SERVICES BLDG.	TRANE	BWH748A 100A	BWR048A 400B	1640	67°	78°	49,500	30,700	5300	95°	460	3	22°	31,300	4.16	DUCT HTR-SEE FLR PLAN. 7.5 KW, 480V, 3PH.	.40	1/2	230	1	2-20"×20"×1"	

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DRAWN	PORT OF TACOMA
DATE	
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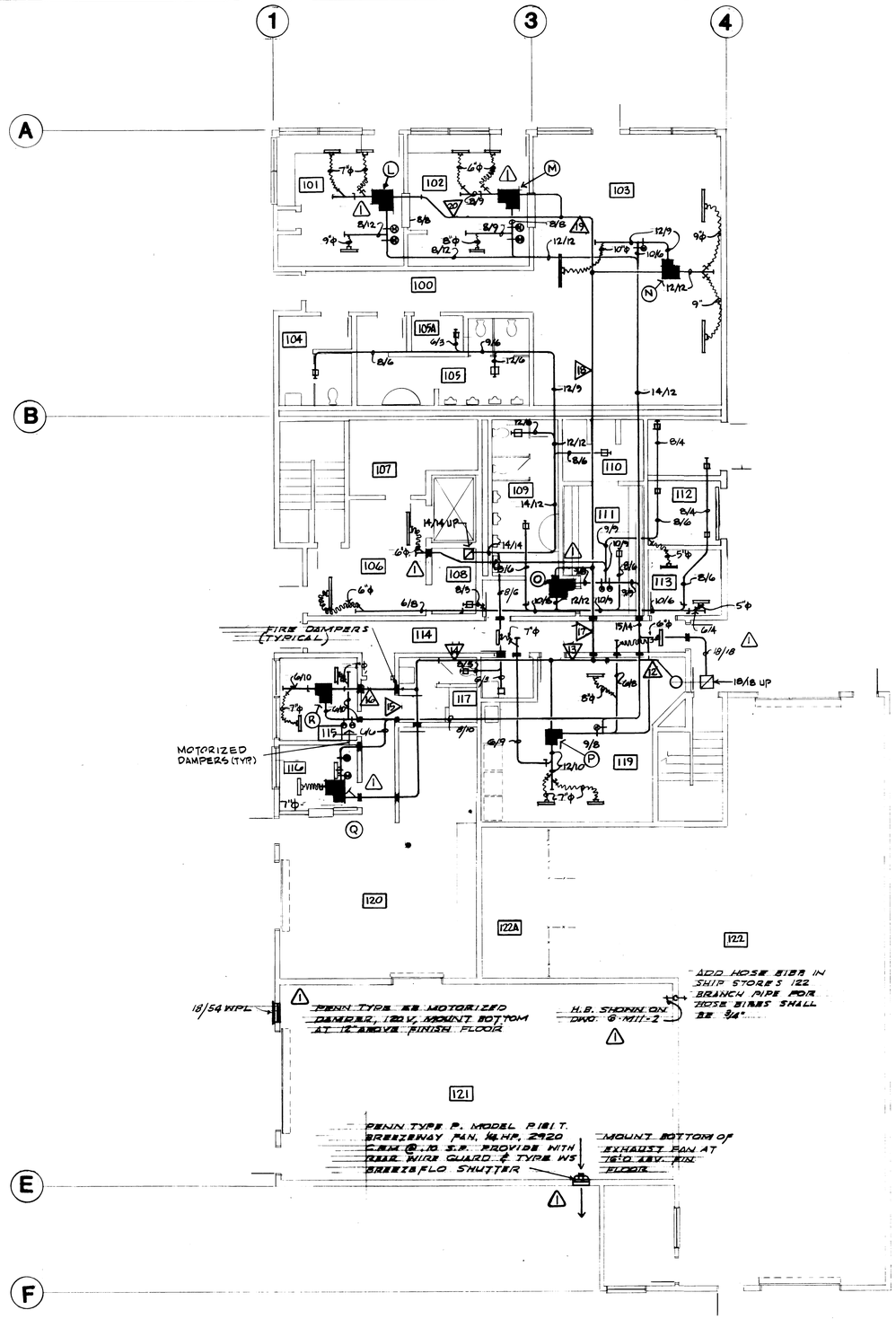
DATE	MARINE SERVICES BUILDING
CHECKED	FIRST FLOOR PLAN - HVAC
DATE	
CONT. NO. 802	
FIELD BOOK (S)	SCALE
APPROVED [signature] PROJECT MANAGER — DATE 9/24/84	DRAWING NO. EP-3893-23
[signature] CHIEF ENGINEER — DATE "	6-M11-5
	SHEET M11-5 OF 8

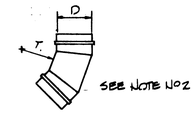
MARK	REVISION	BY	APP.	DATE



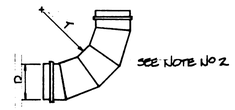
FIRST FLOOR CEILING PLAN

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

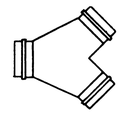
NORTH



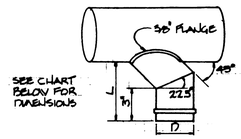
45° ELL



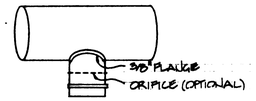
90° ELL



Y-FITTING



45°/90° TEE

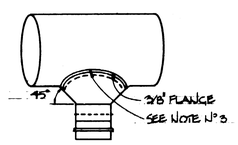


90° TEE

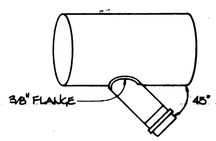
45°/90° TEE	
D	L
12"	12"
14"	13"
16"	14"
18"	15"
20"	16"
22"	17"
24"	18"
26"	19"
28"	20"
30"	21"

NOTES

1) USE SLICES INSTEAD OF ROUND-RECTANGULAR-ROUND WHERE L/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 SOUND BAFFLE FLUSH W/ MAIN DUCT 1/2" HOLES ON 11/16" CENTERS DIAMETER OF CIRCLE TO FIT MAIN DUCT. 3/5 × DIAMETER OF MAIN DUCT.

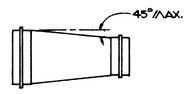


CONICAL 90° TEE

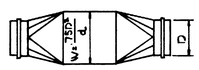


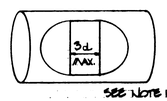
45° TEE

FITTING DIA.	MAT'L GAGE
UP TO 8"	24
9"-24"	22
25"-48"	20



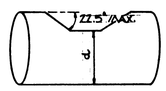
REDUCER





SEE NOTE N° 1

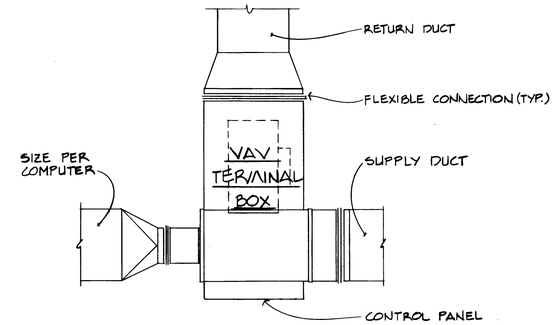
ROUND/RECTANGULAR/ROUND



SLICE IN ROUND DUCT

HIGH VELOCITY DUCT DETAILS

NO SCALE



TYPICAL VAV TERMINAL BOX CONNECTIONS

NO SCALE

MARK	REVISION	BY	APP.	DATE
1	REVISED TO AS-BUILT	R.J.S		9-5-85

DRAWN
DATE
CHECKED
DATE
CHECKED
DATE
CONT. NO. 582
FIELD BOOK (S)
APPROVED
PROJECT MANAGER — DATE 9/24/84
CHIEF ENGINEER — DATE

PORT OF TACOMA

TACOMA TERMINALS, INC.

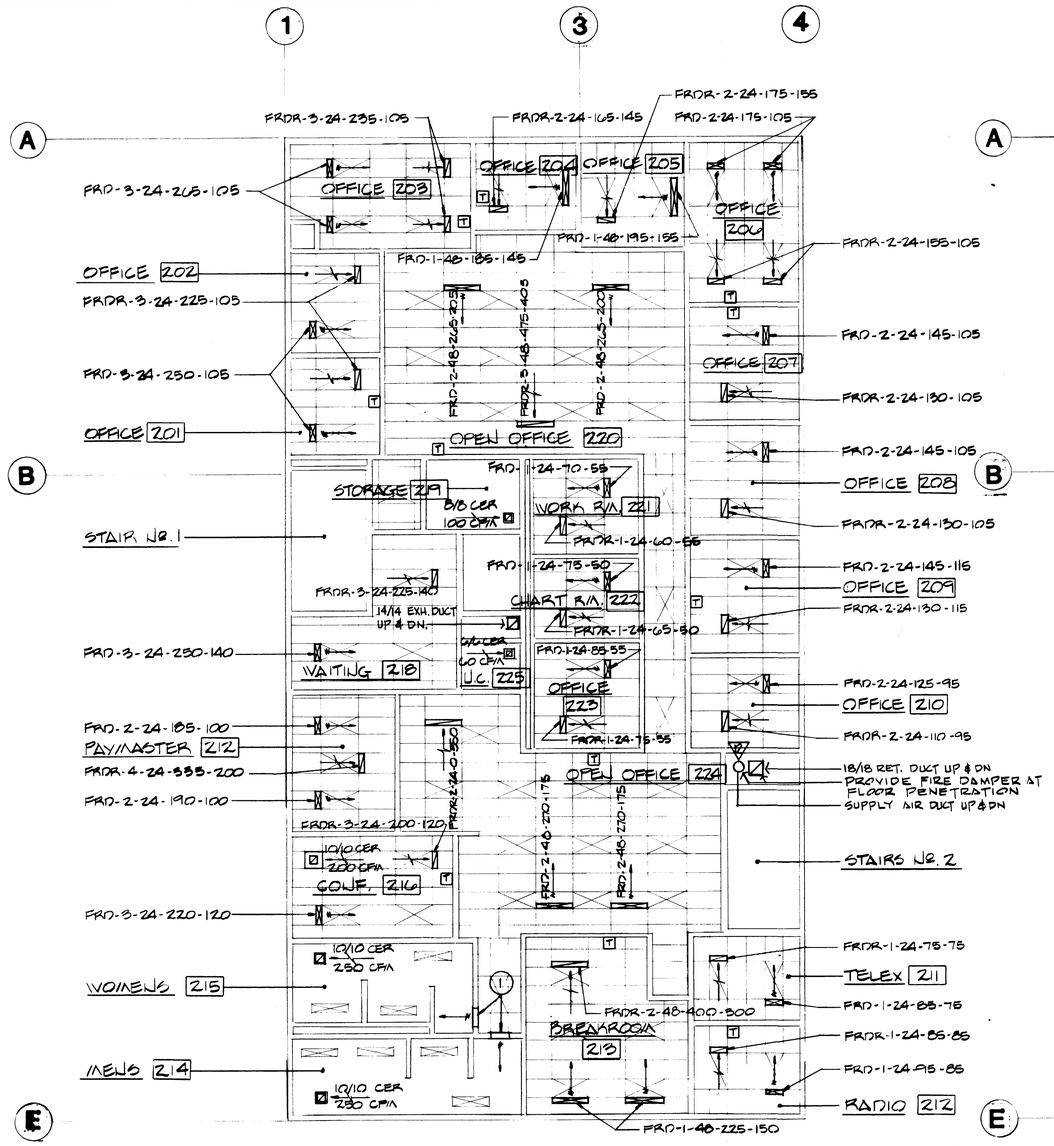
MARINE SERVICES BUILDING

FIRST FLOOR CEILING PLAN - HVAC

SCALE

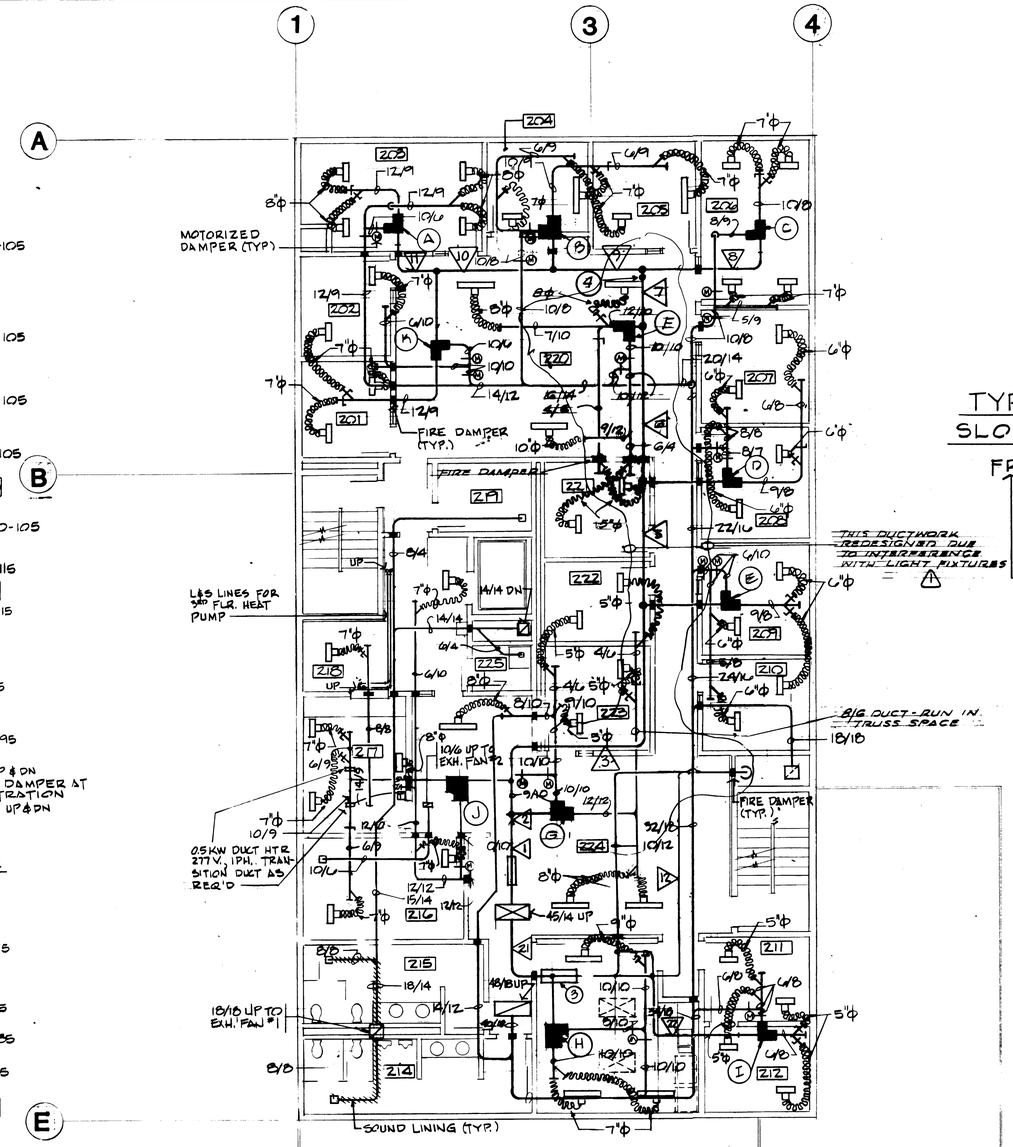
DRAWING NO. EP-3593-23 6-M11-6

SHEET M11-6 OF 8



SECOND FLOOR REFLECTED CEILING PLAN

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



SECOND FLOOR CEILING PLAN

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

NORTH

TYPICAL SUPPLY/RETURN SLOT DIFFUSER CALLOUT

FRD-2-24-500-250

- HEATING CFM
- COOLING CFM
- LENGTH
- # OF SLOTS
- TYPE

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.

MARK	REVISION	BY	APP.	DATE
1	REVISED TO AS BUILT	RJS		9.5.88

DRAWN ____ DATE ____
CHECKED ____ DATE ____
CHECKED ____ DATE ____
CONT. NO. 602
FIELD BOOK (S) ____

PORT OF TACOMA

TACOMA TERMINALS, INC.

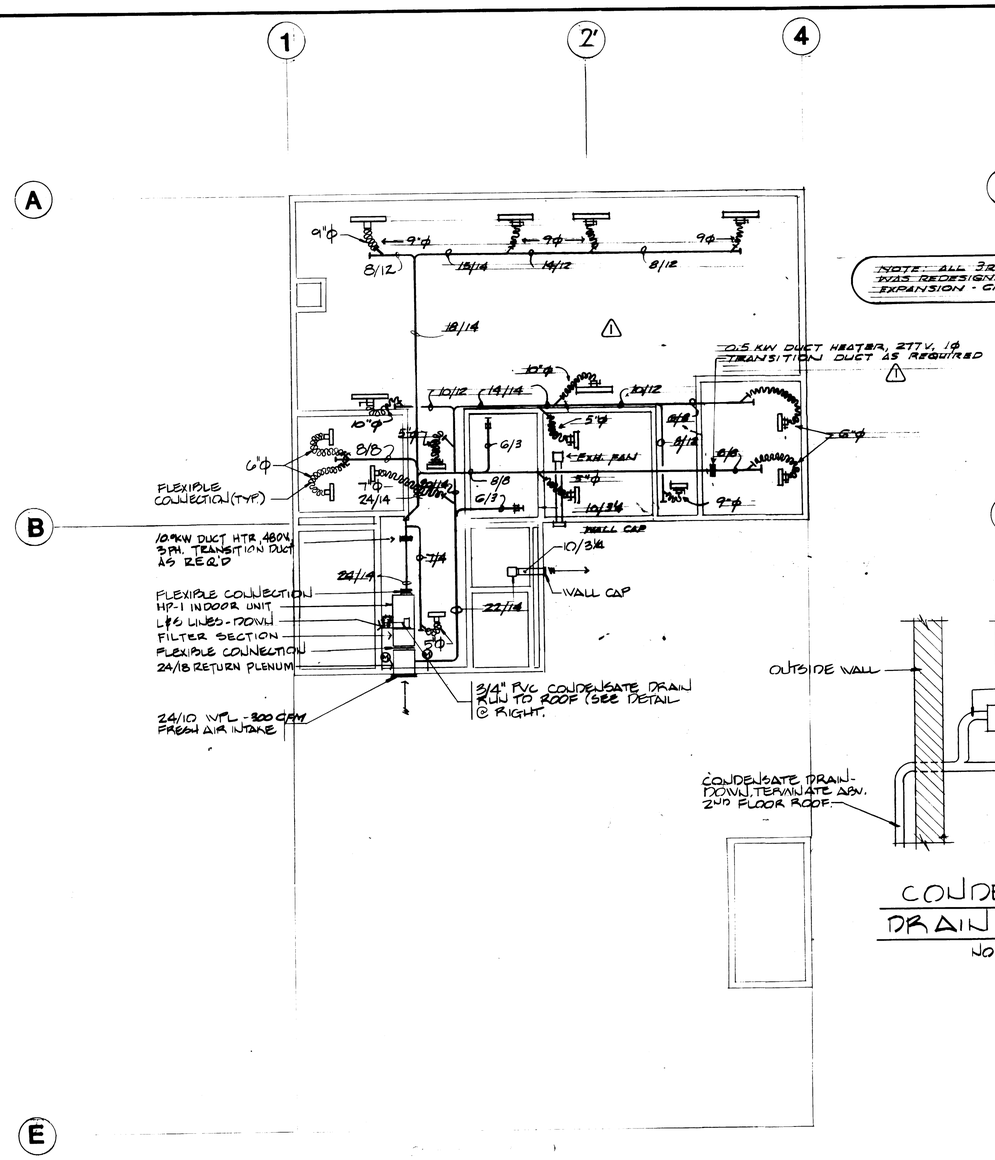
MARINE SERVICES BUILDING

SECOND FLOOR PLAN & CEILING PLAN - HVAC

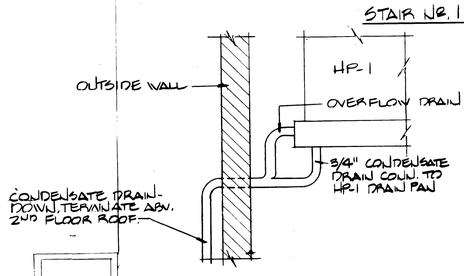
SCALE ____

APPROVED ____ PROJECT MANAGER ____ DATE 9/24/84
____ CHIEF ENGINEER ____ DATE

DRAWING NO. EP-3863-23
6-M11-7
SHEET M11-7 OF 8

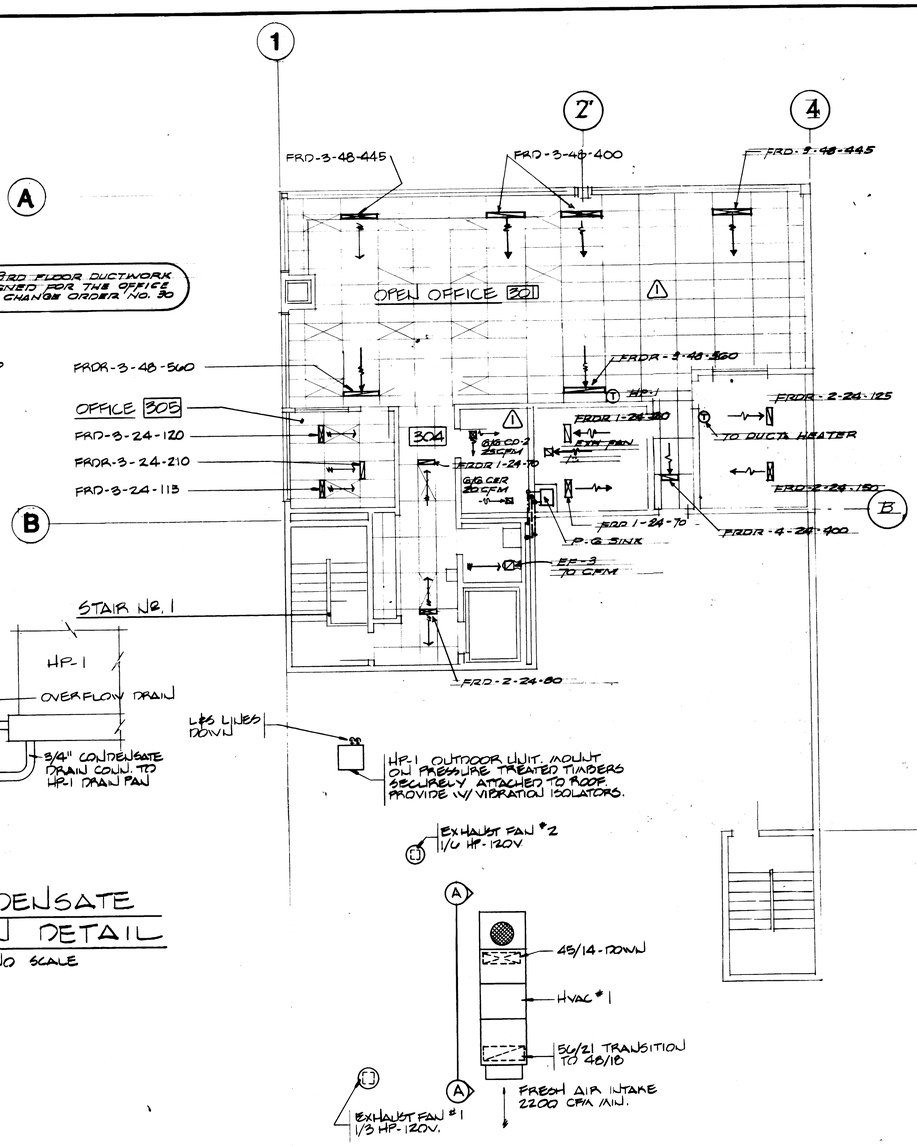


NOTE: ALL 3RD FLOOR DUCTWORK WAS REDESIGNED FOR THE OFFICE EXPANSION - CHANGE ORDER NO. 30



CONDENSATE DRAIN DETAIL

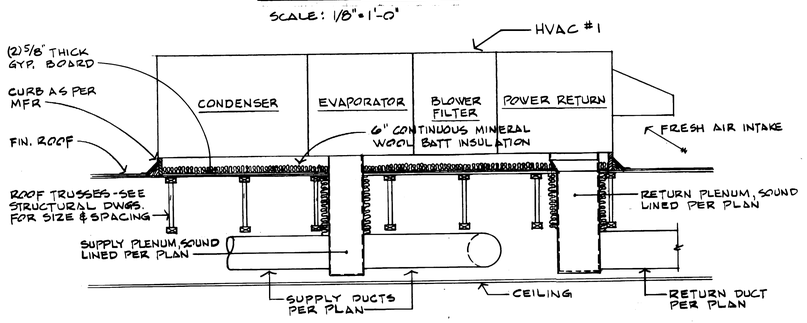
NO SCALE



THIRD FLOOR CEILING PLAN

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

NORTH



SECTION A-A

NO SCALE

THIRD FLOOR REFLECTED CEILING PLAN

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

NORTH

MARK	REVISION	BY	APP.	DATE
1	REVISED TO AS-BUILT	Q.J.S.		9-5-89

APPROVED

PROJECT MANAGER — DATE 9/24/84

CHIEF ENGINEER — DATE

DRAWN ____ DATE ____
CHECKED ____ DATE ____
CHECKED ____ DATE ____
CONT. NO. 582
FIELD BOOK (S) ____

PORT OF TACOMA

TACOMA TERMINALS, INC.

MARINE SERVICES BUILDING

THIRD FLOOR PLAN & CEILING PLAN - HVAC

SCALE ____

DRAWING NO. EP-3803-23 6-M11-8

SHEET M11-8 OF 8

SYSTEM LEGEND

SYMBOL	DESCRIPTION	MOUNTING
F	FIRE ALARM HORN	
F WP	OUTDOOR FIRE ALARM HORN 101 #6	
F	FIRE ALARM MANUAL PULL STATION	
WP	INDICATING LIGHT, W.P (RED) SIMPLEX 4360 W/GUARD	
	FIXED TEMPERATURE HEAT DETECTOR 190°	CEILING
	RATE OF RISE HEAT DETECTOR	CEILING
	IONIZATION (SMOKE) DETECTOR	
ANN	FIRE ALARM ANNUNCIATOR	
DR	DOOR HOLDER, 120 VOLT	COORDINATE W/- GENERAL CONTRACTOR
4.0	INFRARED HEATER EMERSON # RDOM - 48, 4KW, 480 VOLT	
3.0	INFRARED HEATER EMERSON # RDO 35-305, 3KW, 480 VOLT METAL SHEATH ELEMENT	
WH .75	WALL HEATER, SINGER # 8751-8-WJA12 120V. 750 WATT	SURFACE MT. +2'
WH 1.5	WALL HEATER, EMERSON # AWH-3157, 277 V, 1.5 KW, W/-T'STAT	SURFACE MT.
UH 3.0	UNIT HEATER, EMERSON # MOH-03-7-MT1, 3KW, 277V, W/-T'STAT	WALL MT.
UH 10.0	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	
$ $3	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
GFI	GROUND FAULT RECEPTACLE	SEE SPEC.
	FLOOR BOX WITH RECEPTACLE SURFACE FITTING WALKER 800 SERIES W/-BRASS COVER PLATE & CARPET RING	FLOOR
W	480V, WELDING OUTLET, 30 AMP. PYLE NATIONAL #	+48"
	240V OUTLET, 30 AMP 1 PHASE	+48"
W A	50 AMP. AIR COMPRESSOR OUTLET 480V 3 PHASE	
	30 AMP 120V OUTLET	+24"
	WIRE MOLD 2000 W/- RECEPTACLE 18" 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	
S	FUSED DISCONNECT SWITCH FUSE AS REQUIRED BY MANUFACTURER	
	COMBINATION MOTOR CONTROLLER	
M	MOTOR CONNECTION	
WP	WEATHER PROOF	
EP	EXPLOSION PROOF	
M.C. E.C.	MECHANICAL CONTRACTOR ELECTRICAL CONTRACTOR	
J	JUNCTION BOX W/- COVER PLATE.	
	EQUIPMENT SYMBOL - MECHANICAL EQUIPMENT	
	MACHINE TOOL & SHOP EQUIPMENT	
	START - STOP PUSHBUTTON CONTROL STATION	+48"
	220V 30AMP OUTLET	
M	FRACTIONAL HORSEPOWER MANUAL STARTERS W/MELTING ALLOY	

LIGHTING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	LAMP	MOUNTING
A	HI-TEK TH400 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 A 12.125 - 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-F96 LW	PENDENT
FD	LITHONIA DL-240A - 277V - CW - R W/- BATTERY PAD.	2-F40 LW	SURFACE
FE	LITHONIA DD - 248A - 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 440-32-277 VOLT, ES	4-F40 LW	T-BAR
G	HUBBELL PVL-01505-118, 480 VOLT	150 WATT HPS	SURFACE WALL
H	DEVINE 8422-250 HPS-LX1-277V.	250 WATT HPS.	SURFACE CEILING
M	HI-TEK 18 HA A1S150 RS C73T 24-277 V	150 WATT HPS	SURFACE CEILING
W	HI-TEK # TWP 1005, 480 VOLT	100 W HPS	SURFACE WALL
F1	MORRIS KURTZON # SUV2440 W/- POLYCARBONATE LENS	4-F40 LW	SURFACE MTD IN METAL BRACKET FURNISH BY GENERAL CONTRACTOR
TL	HUBBELL # QL503 W/- WIRE GUARD, PROVIDE LIGHTING SWITCH PER DETAIL DWG.	500 WATT QUARTZ	SEE DETAIL DWG. 03/13.1
TS	LAKESHORE MARKERS R-LB-4	2-60A	SURFACE
P	PRESCOLITE CF-2	100 WATT A19	CEILING SURFACE
EX	DUAL-LITE ALC-X-36-277 V		WALL MOUNTED
X	DUAL LITE X-2100 4X-277V		WALL MOUNTED

NOTE: NOT ALL OF THE LIGHTING FIXTURES NOTED IN THE ABOVE SCHEDULE WERE USED ON THIS PROJECT ⚠1

CHARLES H. ... PROFESSIONAL ENGINEER

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

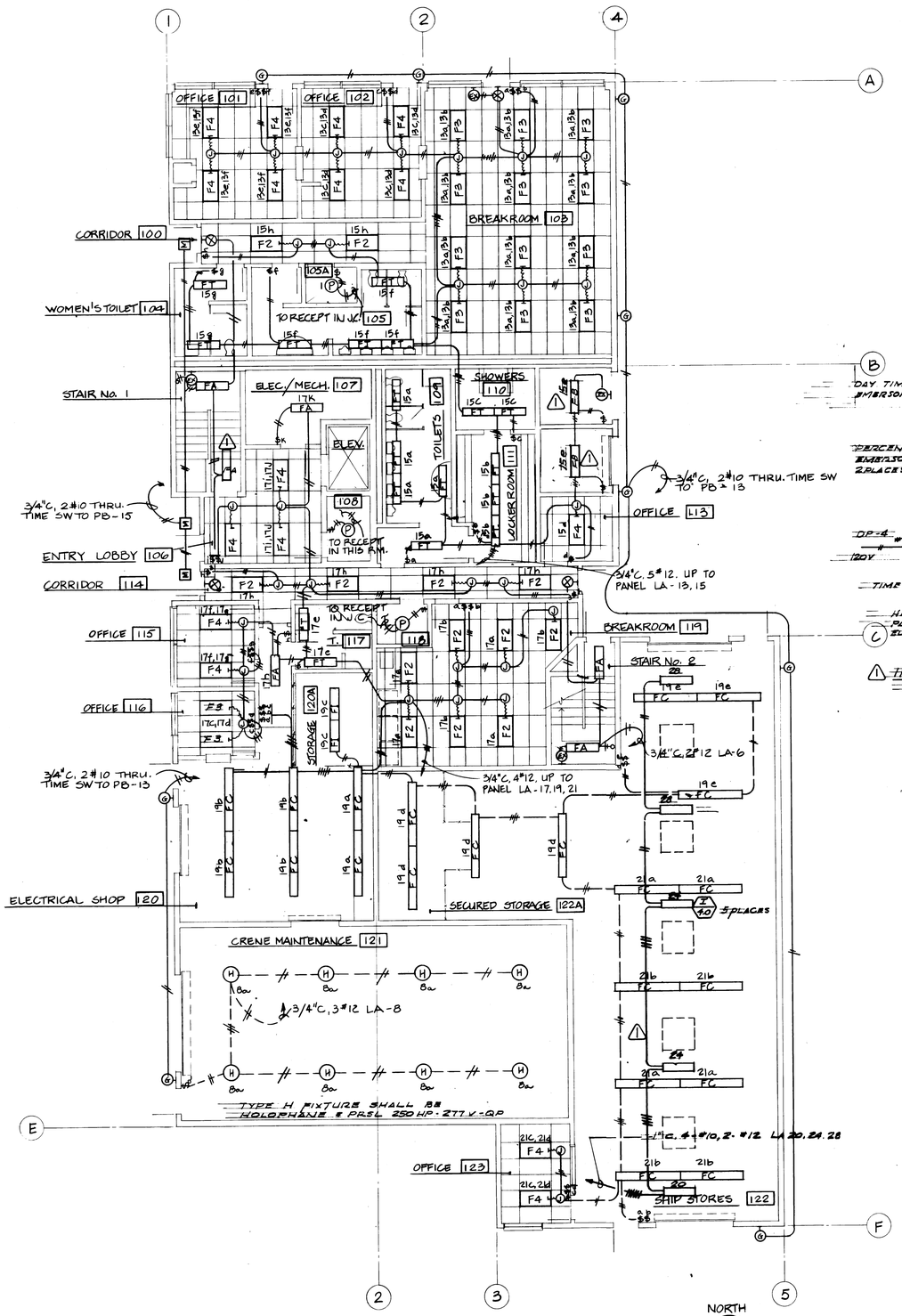
MARK	REVISION	BY	APP.	DATE
1	REVISED TO AS BUILT	R.L.S.		8-22-88

DRAWN ____ DATE ____
CHECKED ____ DATE ____
CHECKED ____ DATE ____
CONT. NO. [redacted]
FIELD BOOK (S) ____

PORT OF TACOMA
TACOMA TERMINALS, INC.
ELECTRICAL SCHEDULES

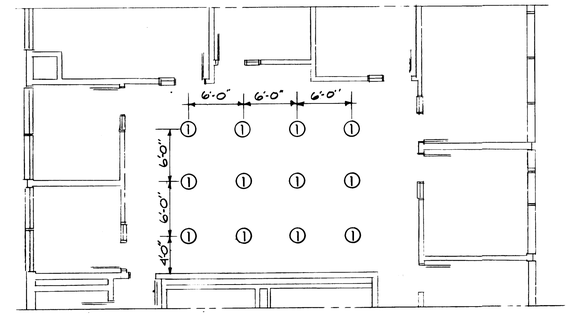
APPROVED
PROJECT MANAGER 9/24/84 DATE
CHIEF ENGINEER DATE

SCALE NONE
DRAWING NO. EP-3893-23
~~6-E0-1~~
SHEET E0-1 OF 1



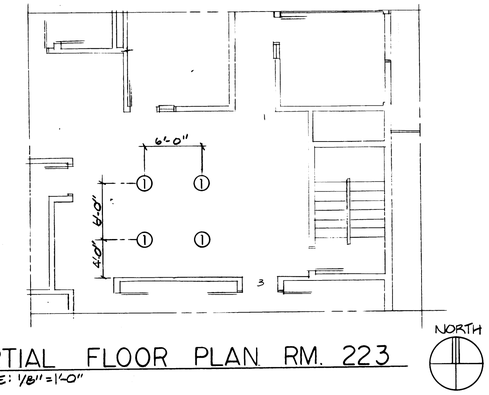
FIRST FLOOR LIGHTING PLAN

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



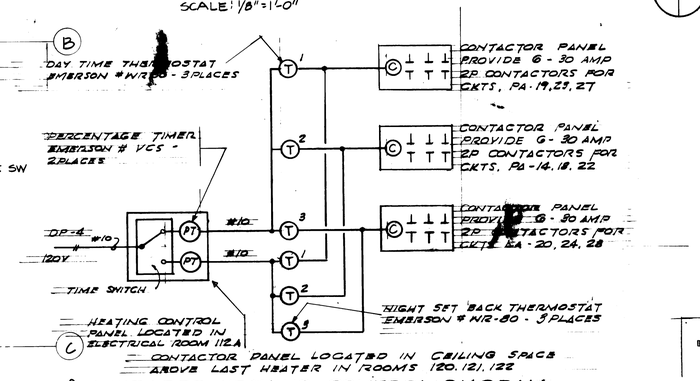
PARTIAL FLOOR PLAN RM. 219

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

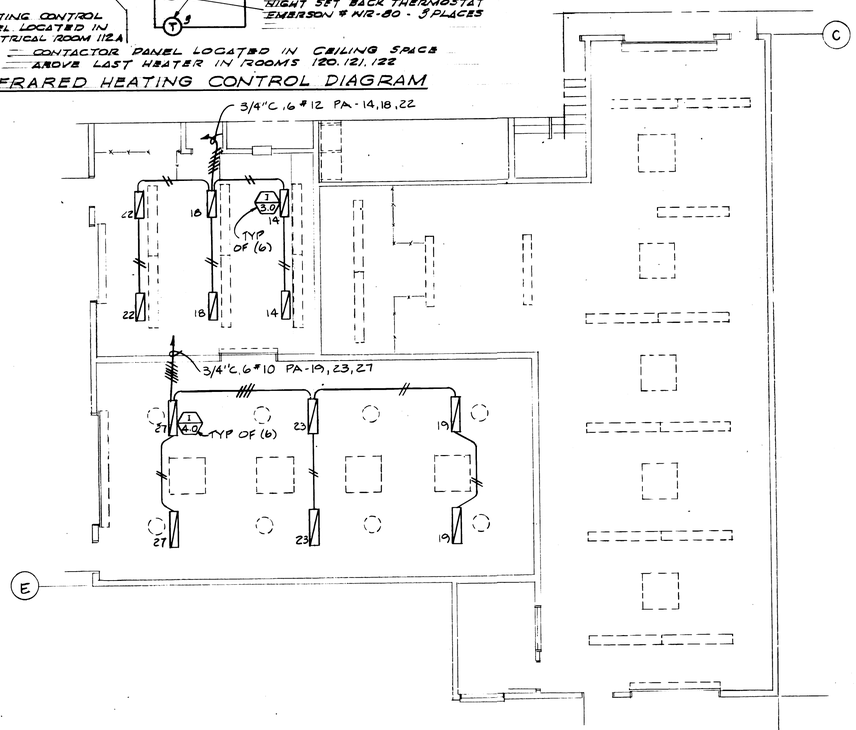


PARTIAL FLOOR PLAN RM. 223

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



1 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)
1 CRT FLOOR OUTLET (SEE NOTE 2)
1 TELEPHONE FLOOR OUTLET (SEE NOTE 3)

NOTES

1. PROVID 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 CRT 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.

CHARLES H.K. LI — STATE OF WASHINGTON — 1965 — REGISTERED PROFESSIONAL ENGINEER

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

DRAWN
DATE
CHECKED
DATE
CHECKED
DATE
CONT. NO. 882

PORT OF TACOMA

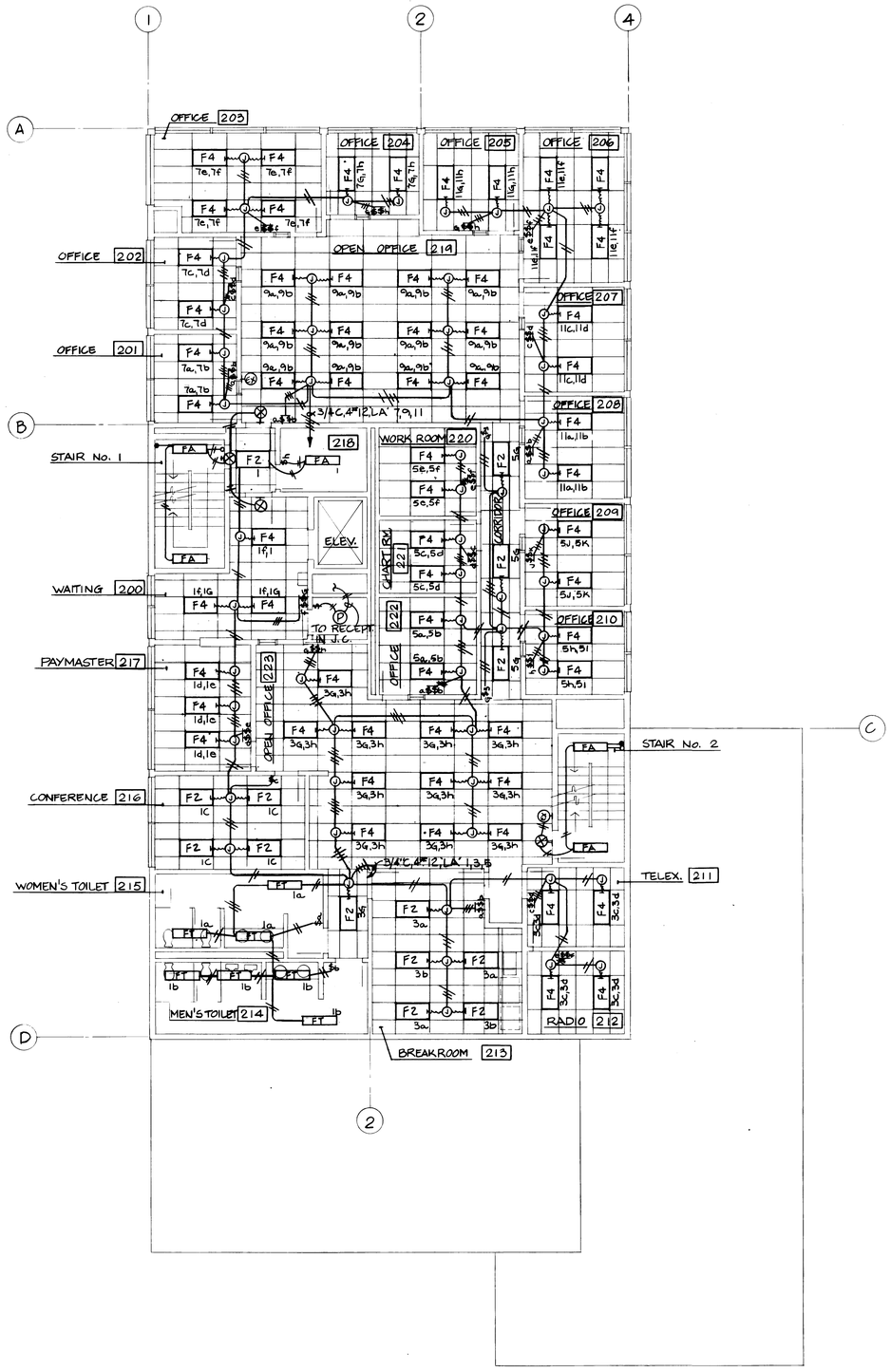
TACOMA TERMINALS, INC.

MARINE SERVICES BUILDING

FIRST FLOOR LIGHTING PLAN

FIELD BOOK (S)
APPROVED
PROJECT MANAGER — 9/24/84 DATE
CHIEF ENGINEER — " DATE

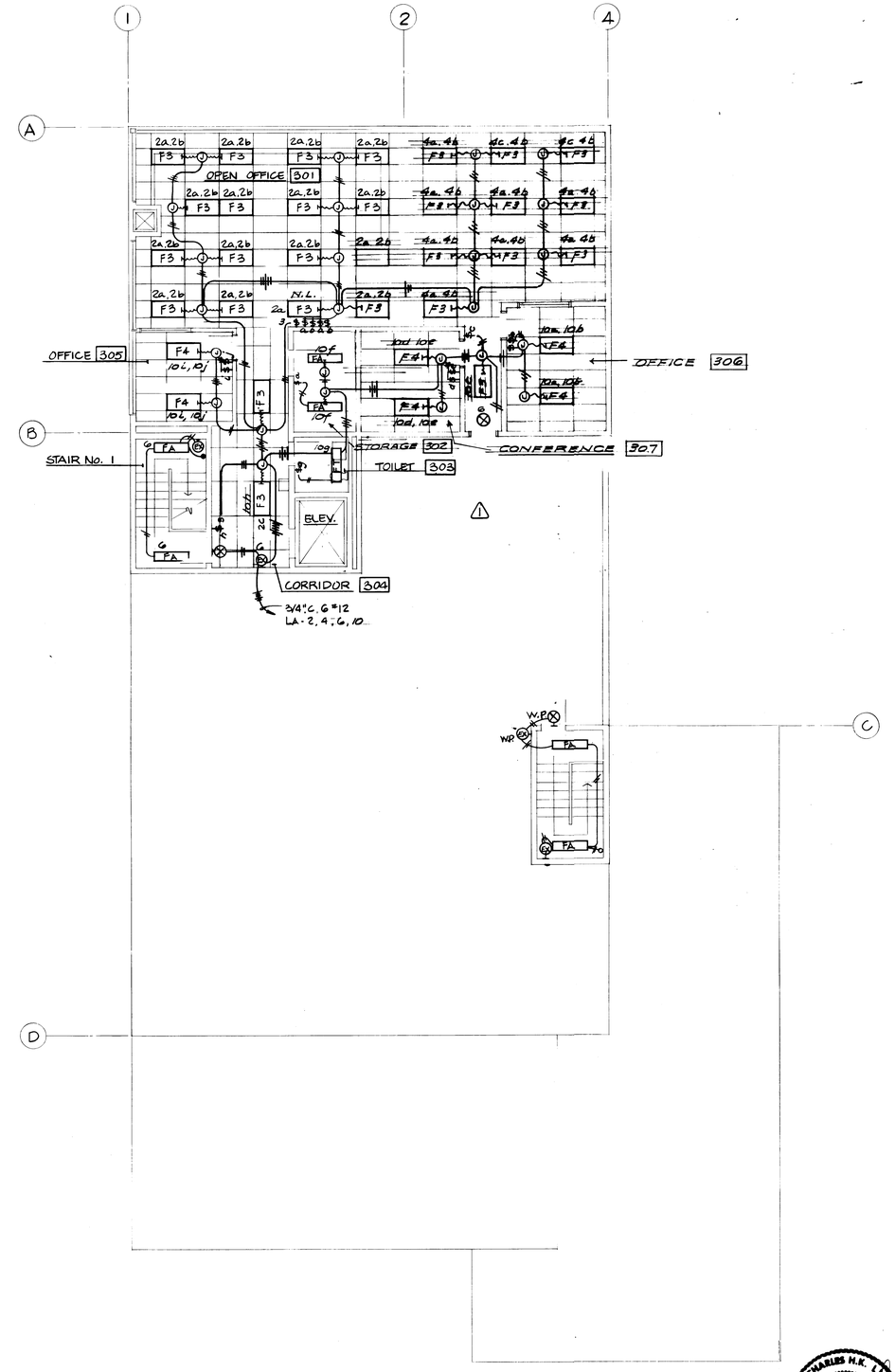
SCALE
DRAWING NO. EP-3893-23 6-E11-1
SHEET E11-1 OF 6



SECOND FLOOR LIGHTING PLAN

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

NORTH



THIRD FLOOR LIGHTING PLAN

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

NORTH

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

DRAWN
DATE
CHECKED
DATE
CHECKED
DATE
CONT. NO. 662
FIELD BOOK (S)
APPROVED
PROJECT MANAGER — DATE 9/24/84
CHIEF ENGINEER — DATE

PORT OF TACOMA

TACOMA TERMINALS, INC.

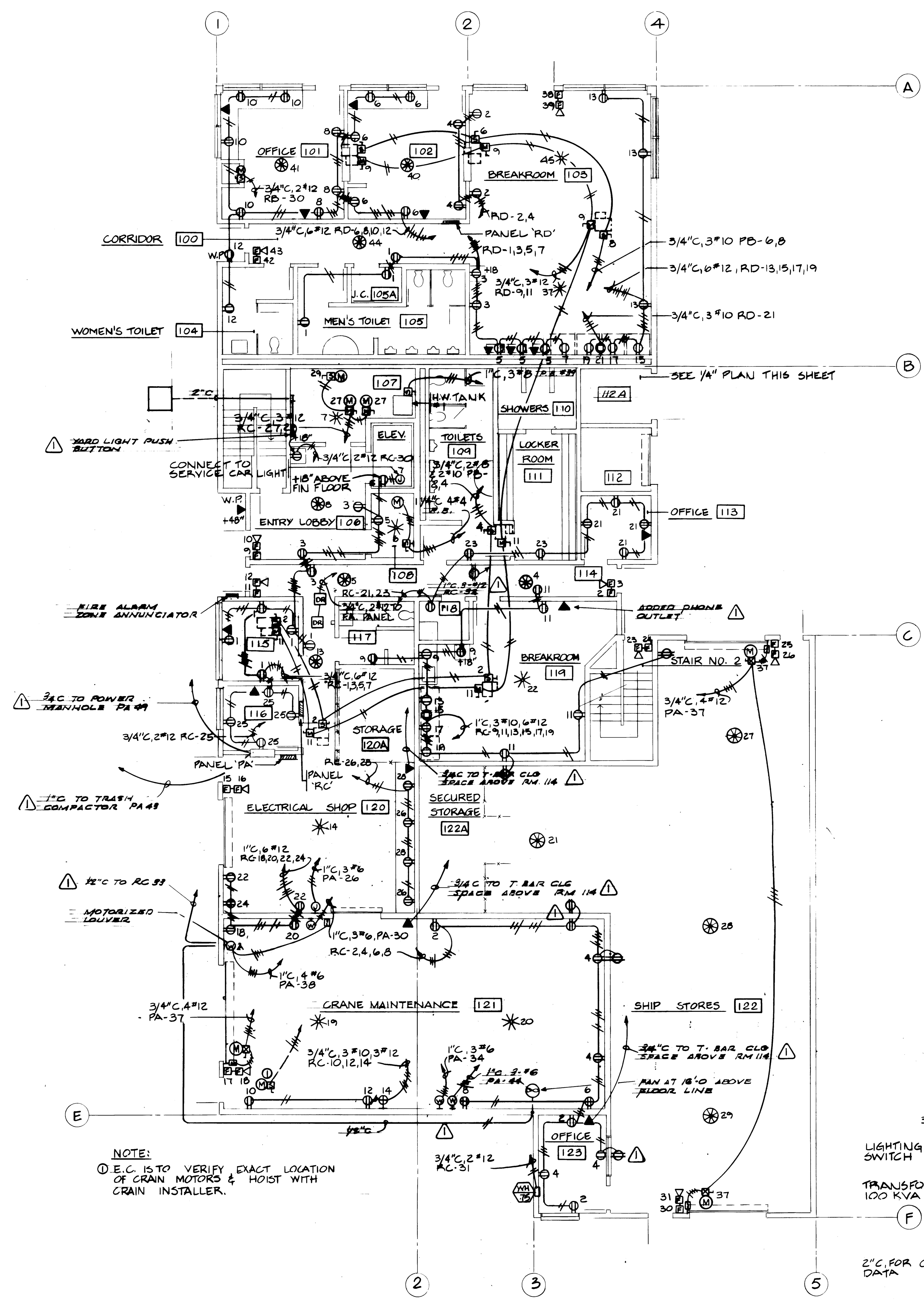
MARINE SERVICES BUILDING

SECOND & THIRD FLOOR LIGHTING PLANS

SCALE

DRAWING NO. EP-3893-23 6-E11-2

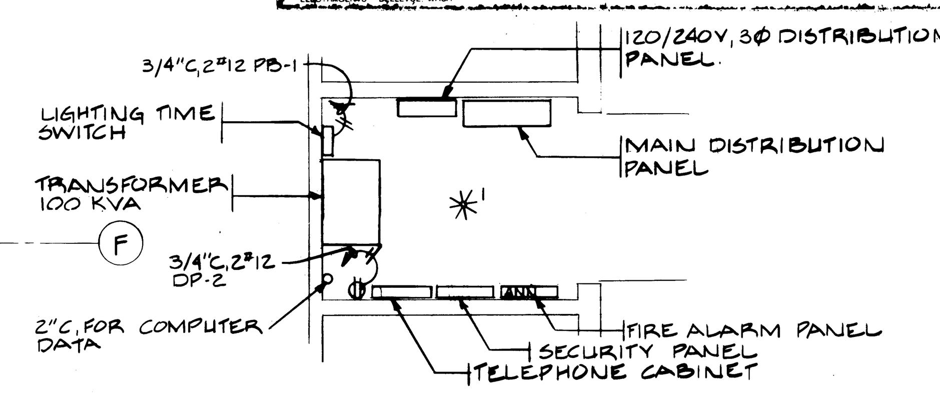
SHEET E11-2 OF 8



FIRST FLOOR POWER PLAN

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

NORTH



ELECTRICAL ROOM PLAN 112 A

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

NORTH

PANEL SCHEDULE

NO. LA — LOCATION: — SERVING: — 277/480 VOLTS 3 PHASE 4 WIRE — 100 AMP with MAIN BREAKER

CKT NO.	LOAD DESCRIPTION	KVA	TRIP AMPS	TRIP AMPS	KVA	LOAD DESCRIPTION	CKT NO.
1	LIGHTING RMS. 214 — 218	1.92	20/1P	20/1P	1.73	LIGHTING RMS. 301, 304	2
3	211, 212, 213, 224	2.7			0.54	LIGHTING RMS. 302, 303, 305	4
5	209 — 223, 226	1.73				STAIRWAY & EMER. LIGHTING	6
7	201 — 204	1.5				LIGHTING RM. 121	8
9	220	1.8				SPARE	10
11	205 — 208	1.5					12
13	101 — 103	2.57					14
15	101, 104 — 113	1.93					16
17	114 — 117, 119	1.61				SPACE	18
19	120, 122A	2.5					20
21	122, 123	1.74					22
23	SPARE						24
25							26
27							28
29							30
31							32
33							34
35							36
37							38
39							40
41							42

REMARKS: — CONNECTED LOAD: 24.36 KVA 29 AMPS — DEMAND LOAD: KVA AMPS

ELECTRAGENTS · BELLEVUE, WASH — FORM NO AB4

PANEL SCHEDULE ⚠1

NO. RB — LOCATION: — SERVING: — 120/208 VOLTS 3 PHASE 4 WIRE — 150 AMP with MAIN BREAKER

CKT NO.	LOAD DESCRIPTION	KVA	TRIP AMPS	TRIP AMPS	KVA	LOAD DESCRIPTION	CKT NO.
1	RM. 201 RECEPTACLES	1.0	20/1P	20/1P	0.8	STORAGE RECEPS	2
3	202	1.0			0.8		4
5	203	1.0			0.8	DUCT HEATER	6
7	204	1.0				SPARE	8
9	205	1.2			0.8	RM. 301, 304 RECEPS	10
11	206, 207	1.2			1.0	306	12
13	208	1.2			1.0	VAV FAN	14
15	209, 210	1.2			0.8	VAV FAN	16
17	221	1.2			1.0	RM 219 RECEPS	18
19	222, 223	1.2			1.0		20
21	218	.54			1.0		22
23	218	[illegible]			1.0		24
25	WATER COOLER	.5			1.0		26
27	SPARE	.5			1.0		28
29	RM. 308 RECEPTACLES	1.0			1.0		30
31	307	1.2			1.0	DOCUMENT LIFT	32
33	302, 303, 304	1.4				SPARE	34
35	301	.80					36
37	301	.80			1.0	RM. 301 RECEPS	38
39	301	.60					40
41	301	.80					42

REMARKS: — CONNECTED LOAD: [illegible] KVA 100 AMPS — DEMAND LOAD: 25 KVA [illegible] AMPS

ELECTRAGENTS · BELLEVUE WASH — FORM NO AB 3

PANEL SCHEDULE

NO. PA — LOCATION: — SERVING: — 277/480 VOLTS 3 PHASE 4 WIRE — 400 AMP with MAIN BREAKER

CKT NO.	LOAD DESCRIPTION	KVA	TRIP AMPS	TRIP AMPS	KVA	LOAD DESCRIPTION	CKT NO.
1	SPARE		20/1P				2
3				30/3P	20	UNIT HEATER SHIP STORES	4
5							6
7							8
9							10
11							12
13				20/2P	6.0	INFRARED HEAT RM 120	14
15							16
17				20/2P	6.0		18
19	INFRARED HEAT RM. 121	8.0	30/2P				20
21				20/2P	6.0		22
23		8.0	30/2P				24
25				50/2P	20	WELDING OUTLET	26
27		8.0	30/2P				28
29				50/2P	20		30
31							32
33	CRANE HOIST	17.43	30/3P	50/2P	20		34
35							36
37							38
39	MOTORIZED DOORS	5.81	20/3P	50/3P	17.43	AIR COMP.	40
41							42
43	TRASH COMPACTOR		20/2P	50/2P	20	WELDING OUTLET	44
45							46
47							48
49	POWER MANHOLE		30/3P				50
51							52
53							54
55							56
57							58
59							60

CONNECTED LOAD = 192 KVA - 231 AMPS   DEMAND LOAD = 154 KVA - 186 AMPS

NO. RA — LOCATION: — SERVING: — 120/208 VOLTS 3 PHASE 4 WIRE — 100 AMP with MAIN BREAKER

CKT NO.	LOAD DESCRIPTION	KVA	TRIP AMPS	TRIP AMPS	KVA	LOAD DESCRIPTION	CKT NO.
1	RM. 223 RECEPTACLES	1.0	20/1P	20/1P	0.8	RM. 211 RECEPTACLE	2
3	223 RECEPTACLES	1.0			0.8	212 RECEPTACLE	4
5	HP - 1 FAN	4.2	20/2P		0.8	212 RADIO EQUIP	6
7						SPARE	8
9	SPARE		20/1P				10
11							12
13				30/1P	0.8	VENDING MACHINE RM. 213	14
15				20/1P	0.8		16
17	SPACE				0.8		18
19					0.8		20
21					0.8	RM. 213 RECEPTACLES	22
23					0.6	214, 215	24
25					0.8	216	26
27					0.8	217, 224	28
29					0.8	217, 218, 224	30
31					0.6	217, 218	32
33					1.0	VAV FANS	34
35					0.86	EXHAUST FAN #1	36
37						SPACE	38
39							40
41							42

REMARKS: — CONNECTED LOAD: 13.86 KVA 39 AMPS — DEMAND LOAD: 12.86 KVA 36 AMPS

ELECTRAGENTS · BELLEVUE, WASH — FORM NO AB 3

PANEL SCHEDULE

NO. RC — LOCATION: — SERVING: — 120/208 VOLTS 3 PHASE 4 WIRE — 100 AMP with MAIN BREAKER

CKT NO.	LOAD DESCRIPTION	KVA	TRIP AMPS	TRIP AMPS	KVA	LOAD DESCRIPTION	CKT NO.
1	RM. 115 RECEPT.	1.0	20/1P	20/1P	0.5	CRANE MAINT. RECEPT.	2
3	LOBBY RECEPT.	1.0			0.5		4
5	ELEV. MACHINE RM. RECEPT.	0.5			0.5		6
7	ELEV. CAR LTG.	1.0			0.5		8
9	BREAK RM RECEPT. & WATER COOLER	1.0			0.5		10
11		1.2			0.5		12
13		1.0		20/2P	1.0	CRANE MAINT. RECEPT.	14
15		1.5	30/1P				16
17		1.0	20/1P	20/1P	0.5	CRANE MAINT. RECEPT.	18
19		1.0			0.5	CRANE MAINT. RECEPT.	20
21	RM. 113 RECEPT.	0.8			0.5	ELECT. SHOP RECEPT.	22
23	111	0.4			0.5		24
25	116	1.0			0.6		26
27	(HWC-1) & (HWC-2)	0.8			0.6		28
29	CONTROL AIR COMPRESSOR	1.18			0.5	WATER COOLER	30
31	WALL HEATER RM. 123	0.75				RM 118 RECEP	32
33	FAN					SPARE	34
35	SPARE						36
37							38
39						SPACE	40
41							42

REMARKS: — CONNECTED LOAD: 23 KVA 63 AMPS — DEMAND LOAD: 18 KVA 49 AMPS

ELECTRAGENTS · BELLEVUE WASH — FORM NO AB 3

PANEL SCHEDULE

NO. RD — LOCATION: — SERVING: — 120/208 VOLTS 3 PHASE 4 WIRE — 100 AMP with MAIN BREAKER

CKT NO.	LOAD DESCRIPTION	KVA	TRIP AMPS	TRIP AMPS	KVA	LOAD DESCRIPTION	CKT NO.
1	RM. 105, 105A RECEPTACLES	0.6	20/1P	20/1P	0.5	RM. 103 RECEPTACLE	2
3	RM. 103 RECEPT. & COOLER	0.8			0.5	102	4
5	PAY TELEPHONE	1.0			1.0	102	6
7	VENDING	1.0			0.6	101	8
9	VAV FANS	0.6			0.8	101	10
11	VAV FANS	1.0			0.4	100, 104	12
13	RM. 103 RECEPTS	0.6				SPARE	14
15	VENDING	1.0					16
17		1.0					18
19		1.0					20
21		5.0	30/2P				22
23							24
25							26
27							28
29							30
31							32
33							34
35							36
37							38
39							40
41							42

REMARKS: — CONNECTED LOAD: 17.3 KVA 48.0 AMPS — DEMAND LOAD: 15 KVA 42 AMPS

ELECTRAGENTS · BELLEVUE WASH — FORM NO AB 3

MARK	REVISION	BY	APP.	DATE
⚠1	REVISED TO AS BUILT	R.J.S		9-10-88

DRAWN ____ DATE ____ CHECKED ____ DATE ____ CHECKED ____ DATE ____ CONT. NO. 582

PORT OF TACOMA

TACOMA TERMINALS, INC.

MARINE SERVICES BUILDING

FIRST FLOOR POWER PLAN

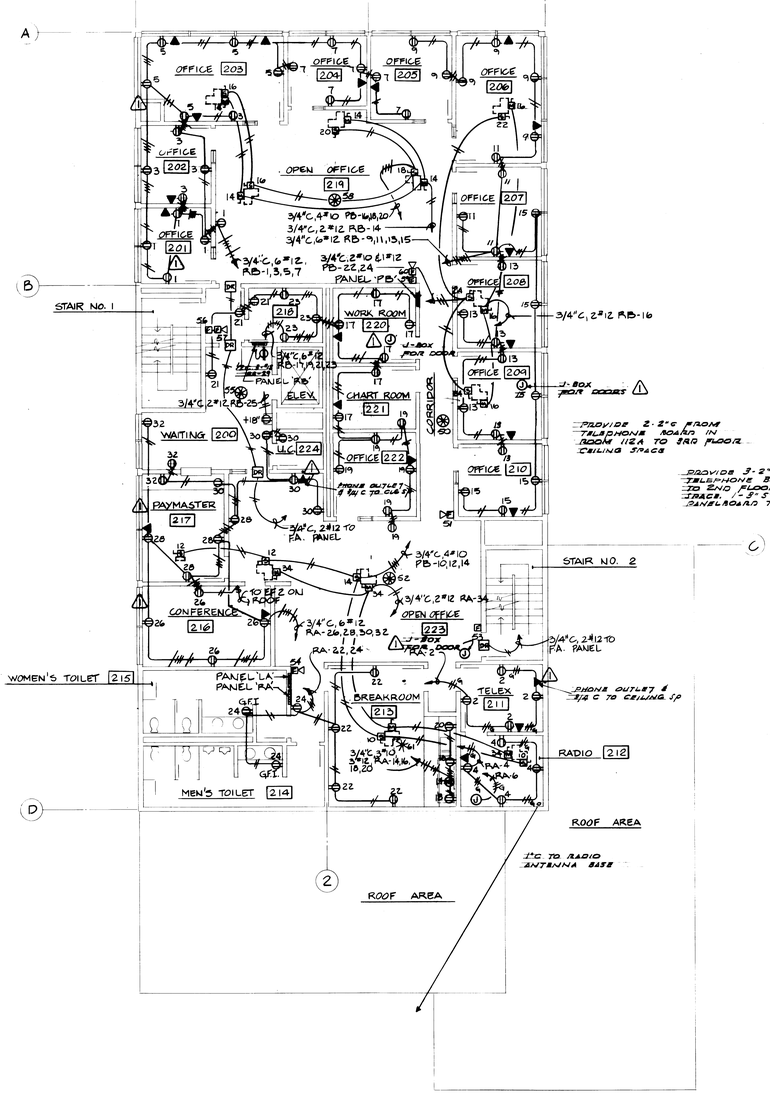
FIELD BOOK (S) ____ SCALE ____

APPROVED ____ PROJECT MANAGER — DATE 9/24/84

CHIEF ENGINEER — DATE

DRAWING NO. EP-3893-23 6-E11-3

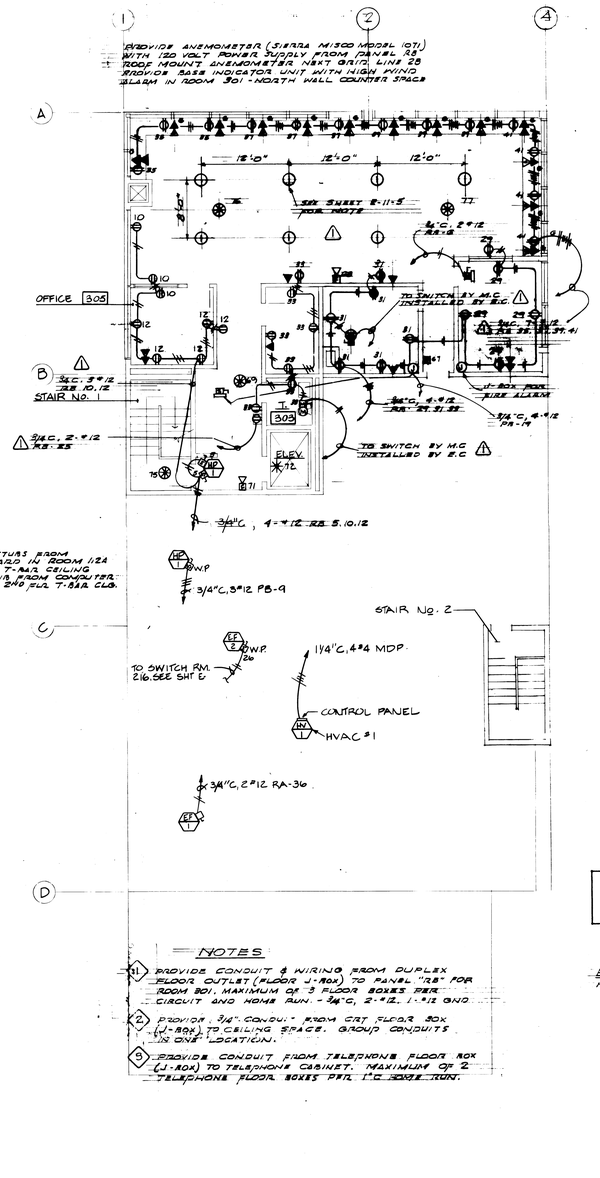
SHEET E11-3 OF 5



SECOND FLOOR POWER PLAN

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

NORTH



THIRD FLOOR POWER PLAN

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

NORTH

NOTES

1. 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.
2. PROVIDE 3/4" CONDUIT FROM CRT FLOOR BOX (J-BOX) TO CEILING SPACE. GROUP CONDUITS IN ONE LOCATION.
3. PROVIDE CONDUIT FROM TELEPHONE FLOOR BOX (J-BOX) TO TELEPHONE CABINET. MAXIMUM OF 2 TELEPHONE FLOOR BOXES PER 1"C HOME RUN.

PANEL SCHEDULE

NO. 'RB' LOCATION: SERVING: 277/480 VOLTS, 3 PHASE, 4 WIRE; 200 AMP with MAIN BREAKER

CKT NO.	LOAD DESCRIPTION	KVA	TRIP AMPS		TRIP AMPS	KVA	LOAD DESCRIPTION	CKT NO.
1	LIGHTING TIME SW.	1.0	20/1P		40/1P	7.0	VAV HEAT	2
3	TRANSFORMER	10.0	30/3P		30/1P	6.0		4
5						5.0		6
7						6.0		8
9	HP-1-OUTDOOR	7.3	20/3P			5.5		10
11						5.5	& DUCT HEATER	12
13	OUTDOOR LIGHTING	1.4	20/1P			5.0		14
15	SOFFIT LIGHTING	.5	20/2P			5.0		16
17						5.0		18
19						4.0		20
21	DUCT HEATER	7.5	20/3P			5.0		22
23						2.5		24
25	SPARE		20/1P		20/1P	1.0	DUCT HEATER SPARE	26
27								28
29								30
31								32
33								34
35								36
37								38
39	H.W. TANK	24.0	40/3P		70/3P	20.0	ELEVATOR	40
41								42

REMARKS: CONNECTED LOAD: 81 KVA 98 AMPS; DEMAND LOAD: KVA AMPS

ELECTRAGENTS, BELLEVUE WASH. FORM NO. AB4

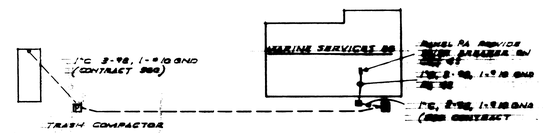
PANEL SCHEDULE

NO. 'DP' LOCATION: SERVING: 120/208 VOLTS, 3 PHASE, 4 WIRE; 350 AMP with MAIN BREAKER

CKT NO.	LOAD DESCRIPTION	KVA	TRIP AMPS		TRIP AMPS	KVA	LOAD DESCRIPTION	CKT NO.
1	FIRE ALARM	.5	20/1P		20/1P	.2	RECEPT.	2
3	SECURITY	.5					SPARE	4
5	TELEPHONE CABINET	.5					SPARE	6
7	SPARE							8
9								10
11	PANEL 'RC'	22.8	100/3P		100/3P	13.86	PANEL 'RA'	12
13								14
15								16
17	PANEL 'RD'	17.3	100/3P		150/3P	25.94	PANEL 'RB'	18
19								20
21	SPACE						SPACE	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

ELECTRAGENTS, BELLEVUE WASH. FORM NO. AB3



ELECTRICAL SERVICE PLAN FOR TRASH COMPACTOR

NO SCALE

MARK	REVISION	BY	APP.	DATE
1	REVISED TO AS-BUILT	R.J.S.		9-10-85

DRAWN ____ DATE ____ CHECKED ____ DATE ____ CHECKED ____ DATE ____ CONT. NO. 882

PORT OF TACOMA

TACOMA TERMINALS, INC.

MARINE SERVICES BUILDING

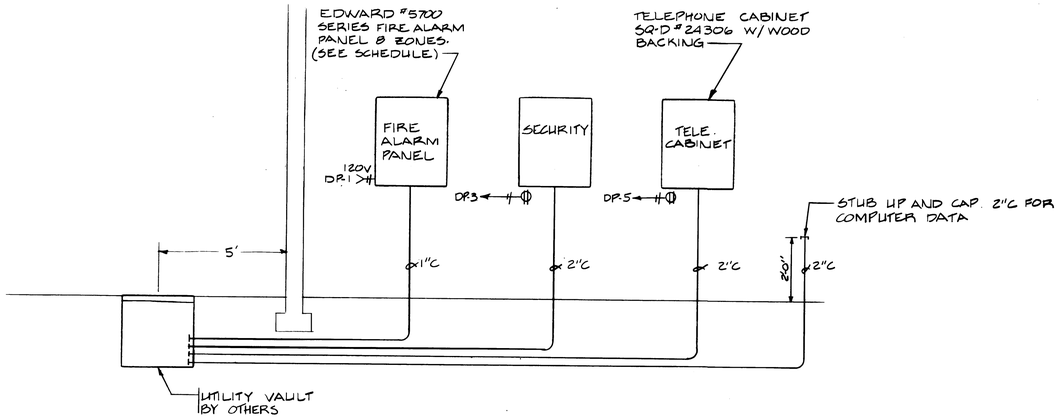
SECOND & THIRD FLOOR POWER PLANS

FIELD BOOK (S): ____ SCALE: ____

APPROVED: PROJECT MANAGER 9/24/84 DATE; CHIEF ENGINEER DATE

DRAWING NO. EP-S883-23 6-E11-4

SHEET E11-4 OF 9



SYSTEM RISER DIAGRAM

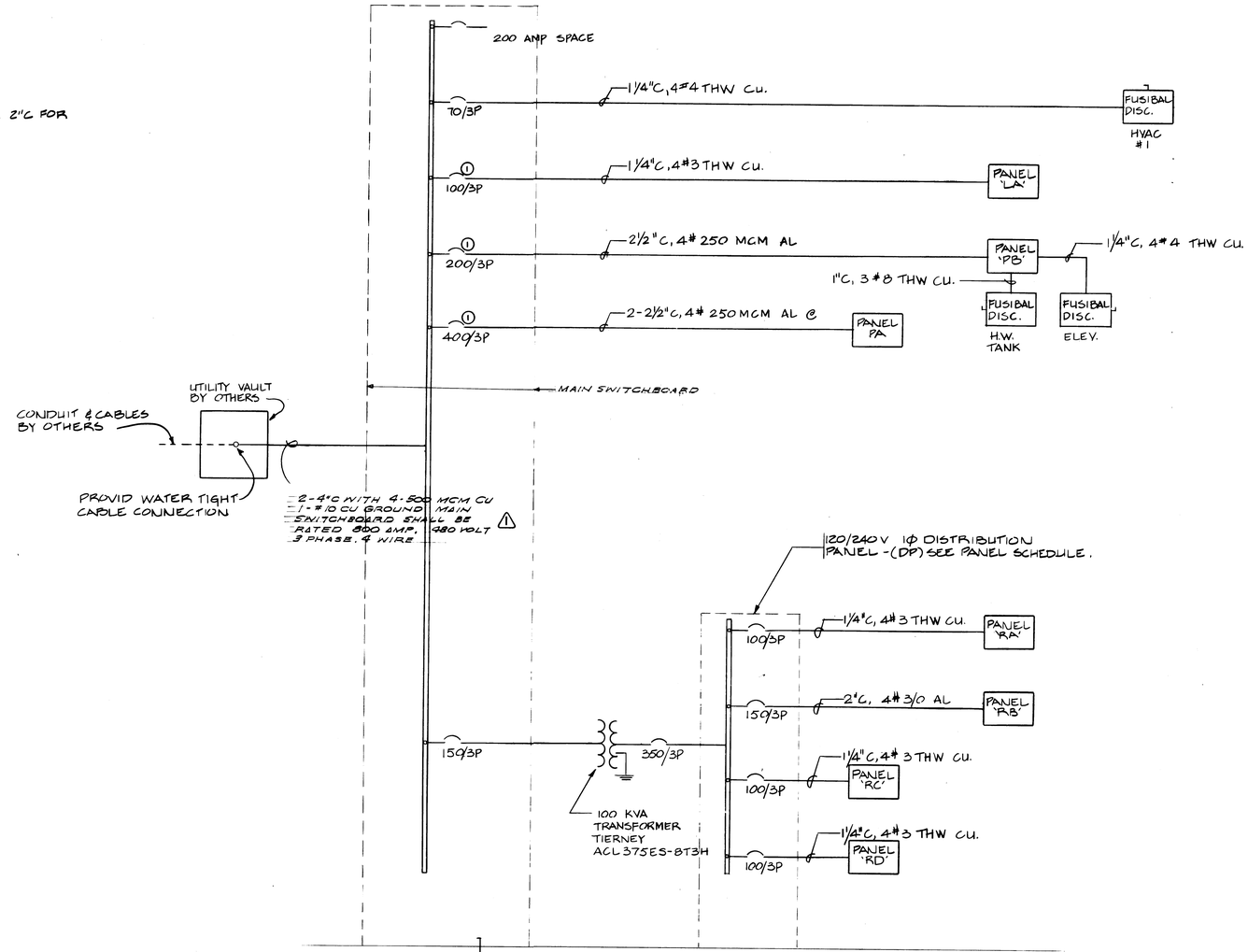
NOT TO SCALE

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

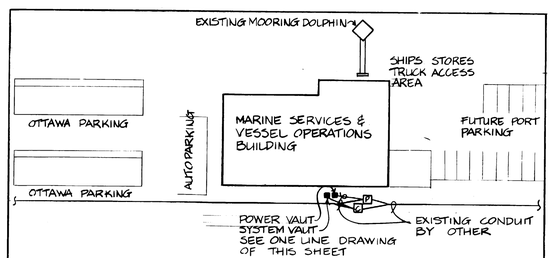


ONE LINE DIAGRAM

NO SCALE:

NOTES:

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



VICINITY MAP

SCALE: 1" = 50' - 0"

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

CHARLES H.K. LI — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

DRAWN
DATE
CHECKED
DATE
CHECKED
DATE
CONT. NO. 562

PORT OF TACOMA

TACOMA TERMINALS, INC.

MARINE SERVICES BUILDING

LOAD CALCULATIONS, ONE LINE DIAGRAMS, & SYSTEM RISER DIAGRAM

FIELD BOOK (S)
SCALE
APPROVED
PROJECT MANAGER — DATE 9/24/84
CHIEF ENGINEER — DATE
DRAWING NO. EP-3893-23 6-E11-5
SHEET E11-5 OF 5