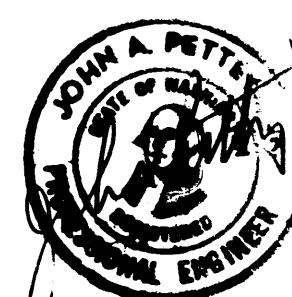
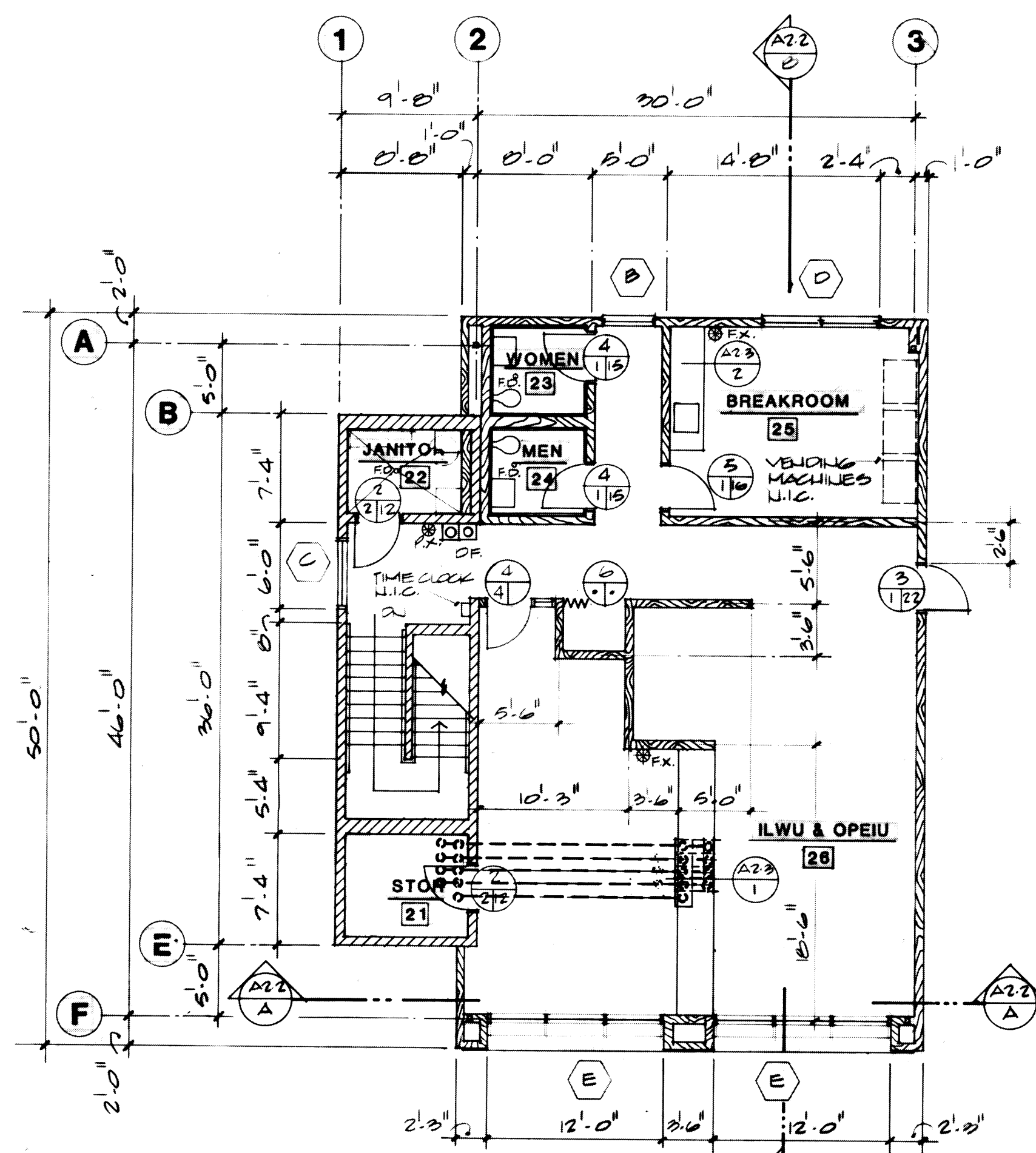


DRAWN _____		<h1 style="text-align: center;">PORT OF TACOMA</h1> <h2 style="text-align: center;">TACOMA TERMINALS, INC.</h2> <h3 style="text-align: center;">P.T.S., AIR, & LUBE OIL LINES</h3>	
DATE _____			
CHECKED <u>J.T.P.</u>			
DATE <u>5-30-84</u>			
CHECKED <u>F</u>			
DATE <u>5-30-84</u>			
CONT. NO. <u>560</u>			
FIELD BOOK (S) _____		SCALE <u>AS NOTED</u>	
APPROVED <u>[Signature]</u>	<u>5/31/84</u>	DRAWING NO.	
PROJECT MANAGER <u>[Signature]</u>	DATE <u>5/31/84</u>	EP-3080-23-M108	
CORP. ENGINEER _____	DATE _____	SHEET <u>71</u> OF <u>88</u>	

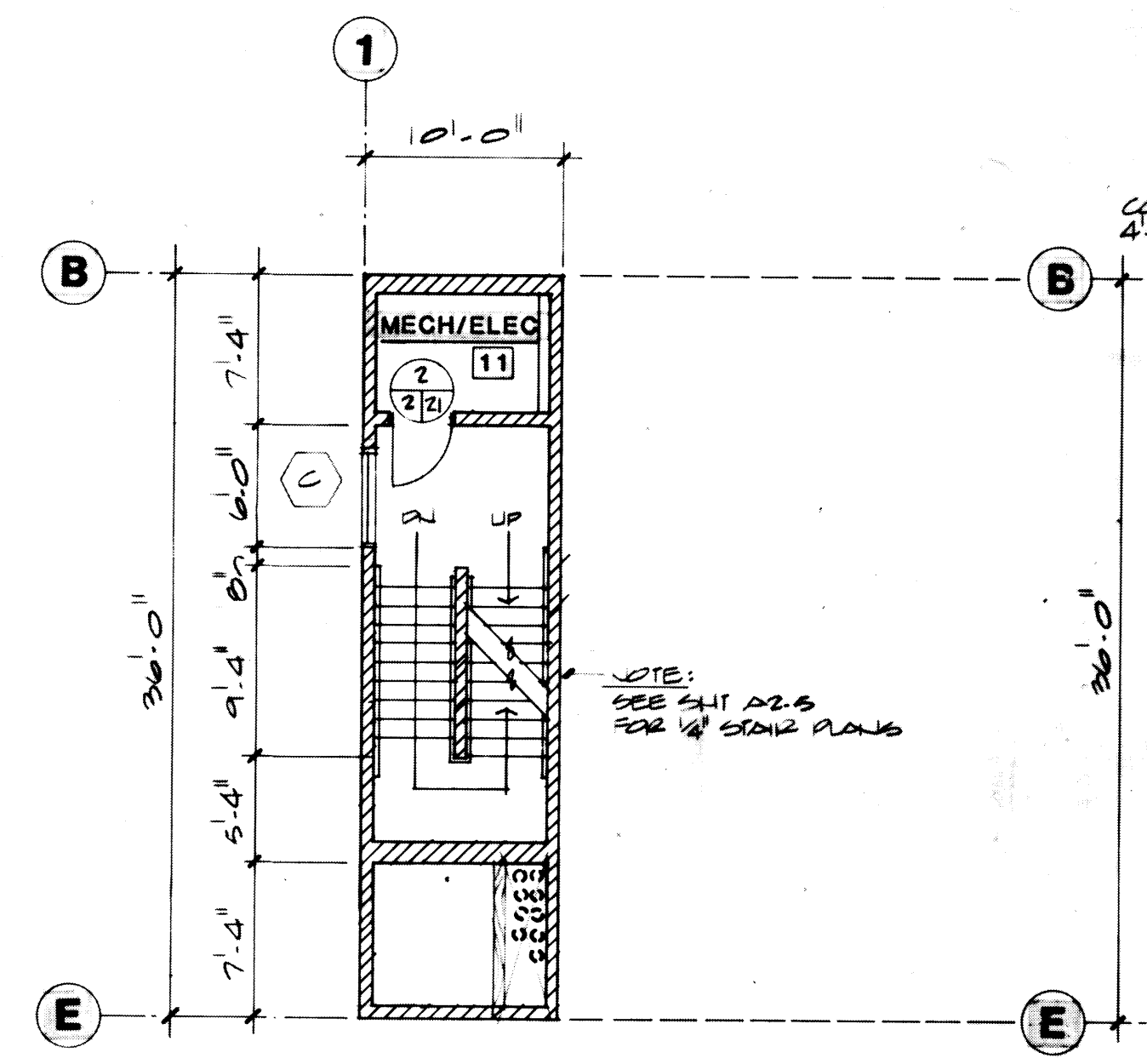


Whitacre Engineers, Inc.
Consulting Engineering & Land Planning
2184 SO. "K" STREET P.O. BOX 5877
TACOMA, WASHINGTON 98402 (206) 252-2244



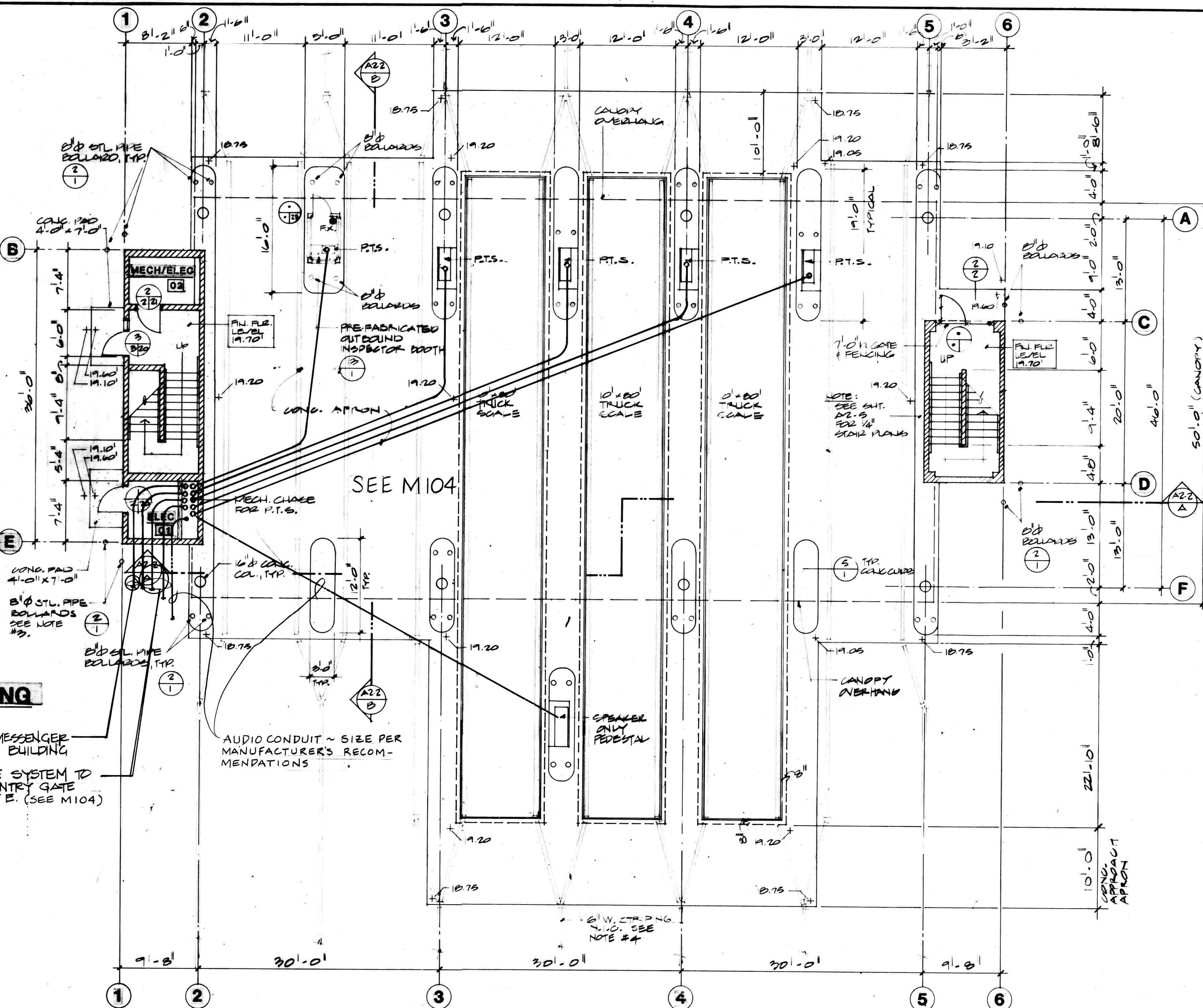


SECOND FLOOR LEVEL
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NORTH

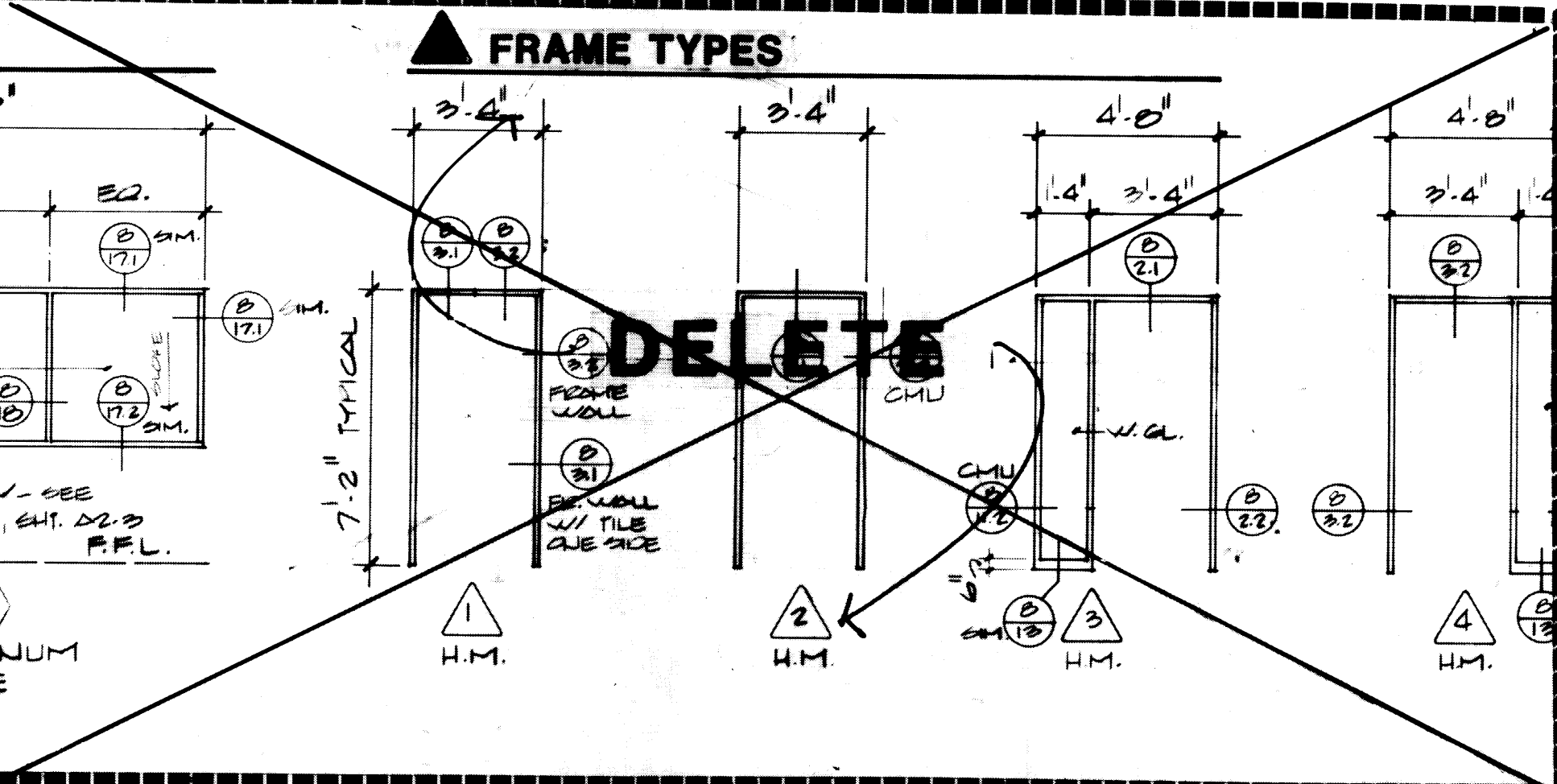
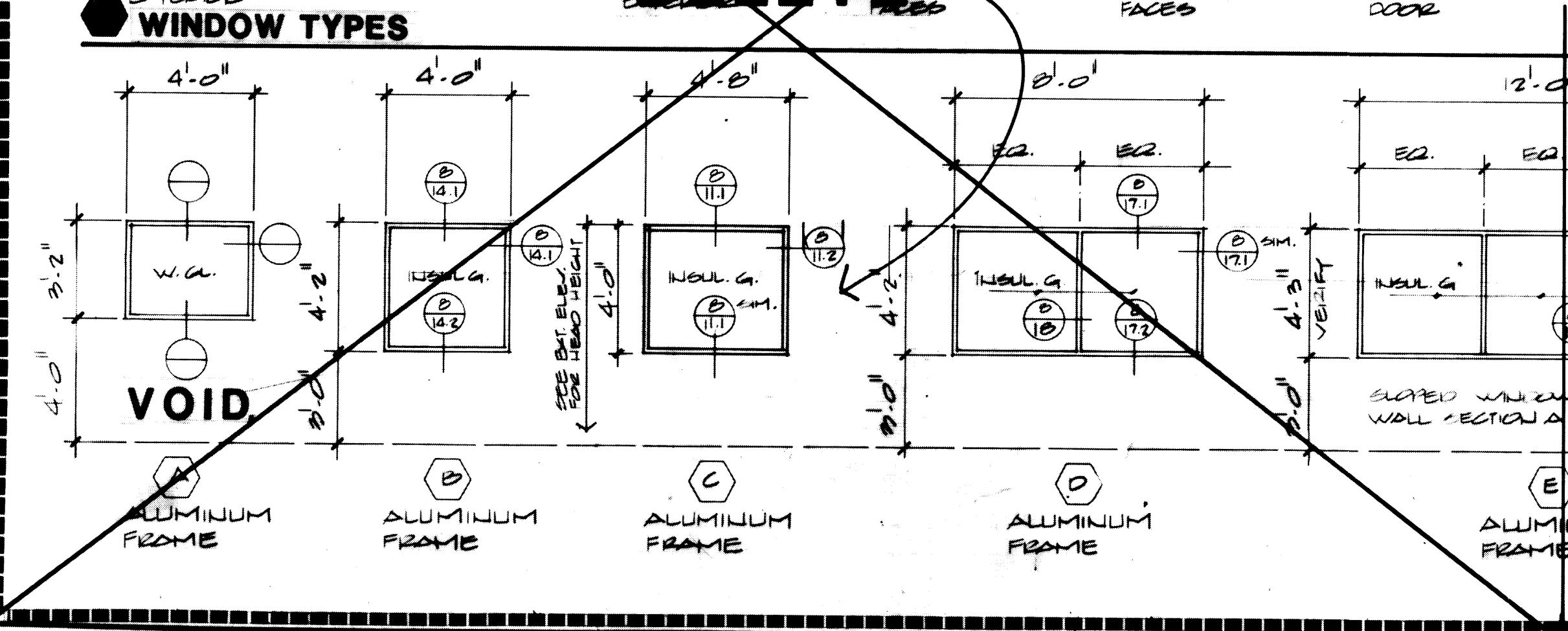
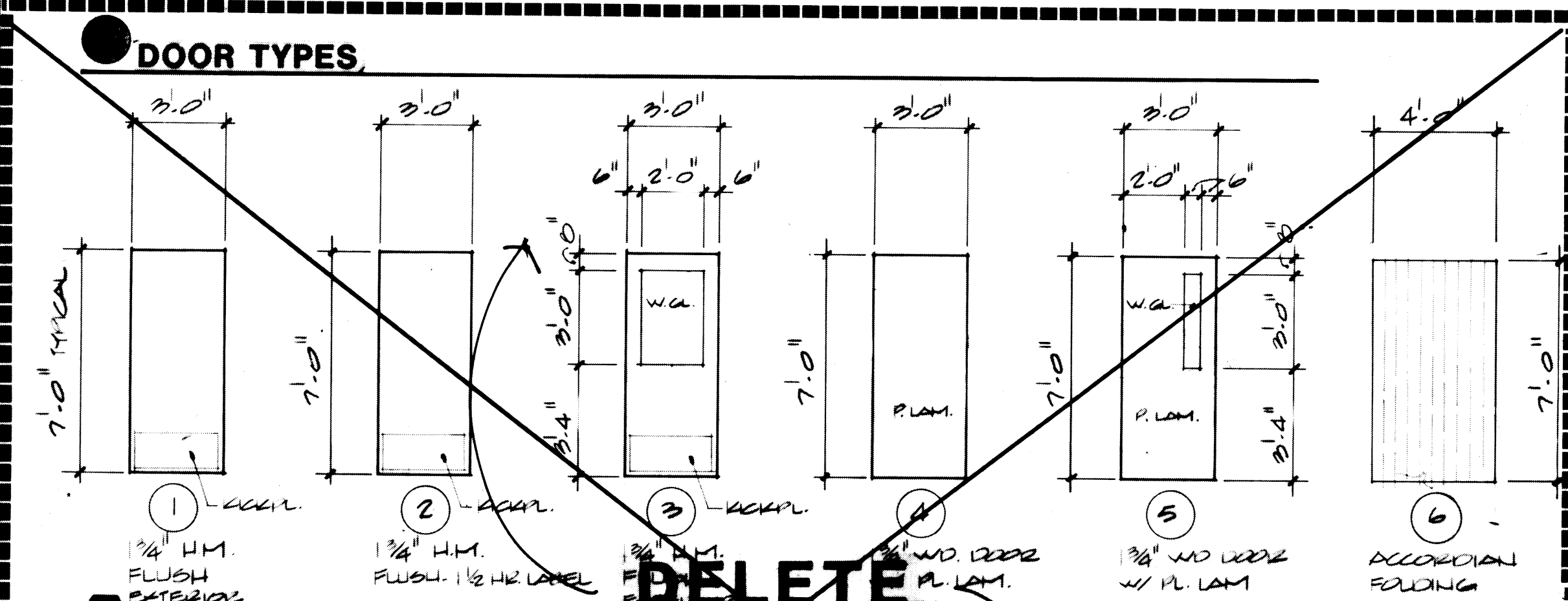


INTERMEDIATE STAIR LANDING
SCALE 1/8" = 1'-0"
NORTH

- (1) POINT TO POINT MESSENGER SYSTEM TO OPS BUILDING
- (3) PNEUMATIC TUBE SYSTEM TO DOMESTIC PRE-ENTRY GATE UNDER 11" STREET E. (SEE M104)

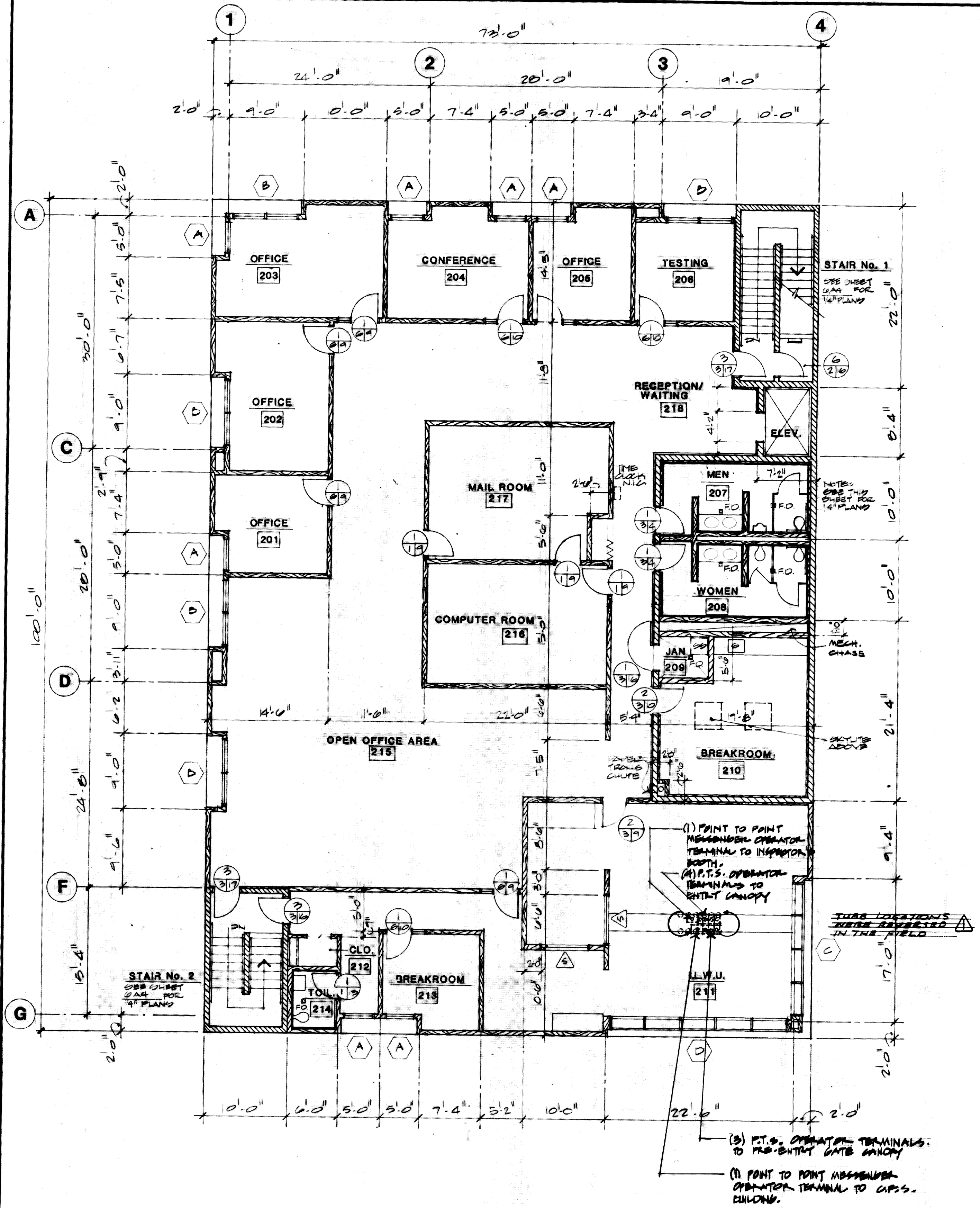


FIRST FLOOR LEVEL
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NORTH

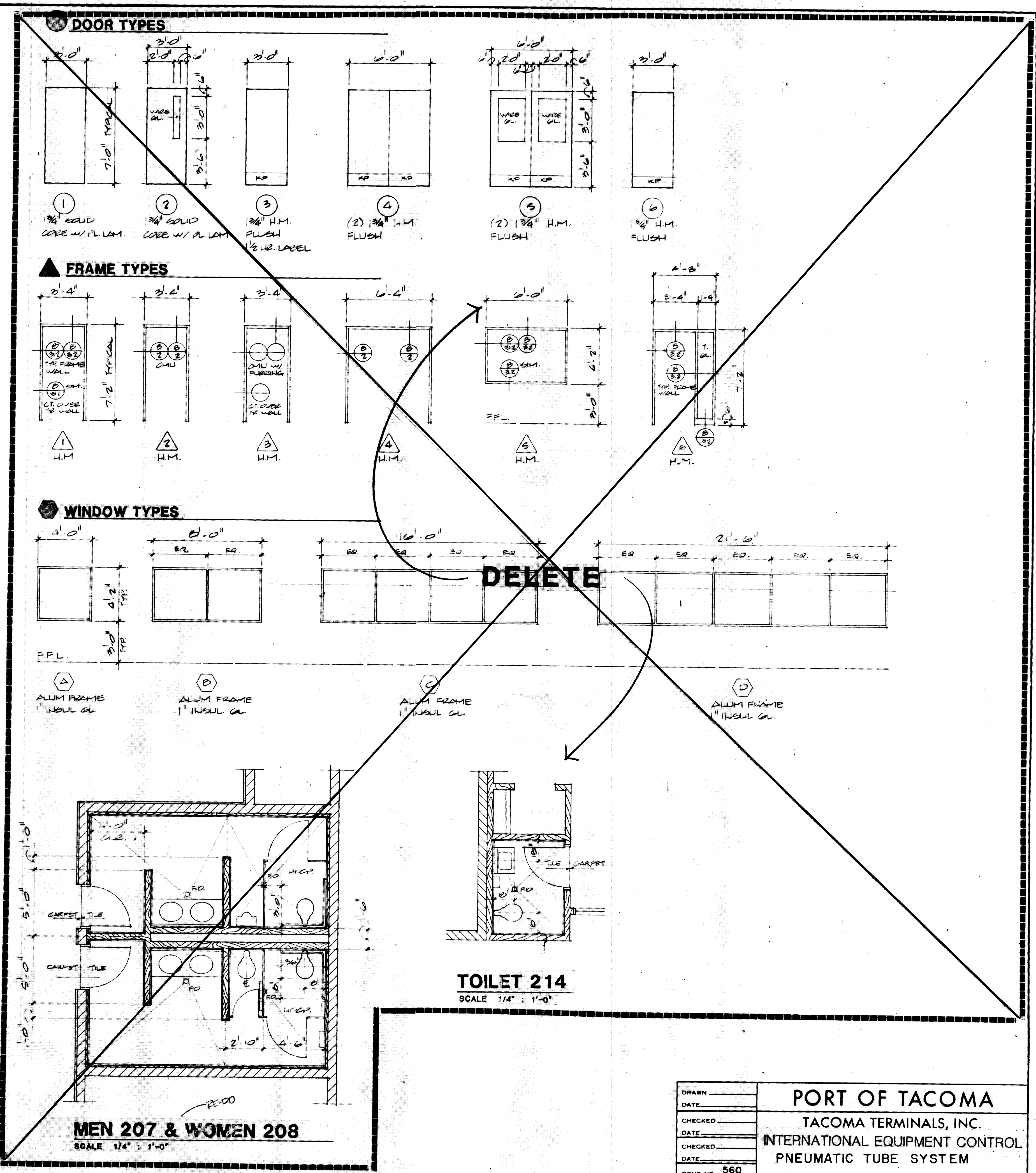


- NOTES:**
- CONSTRUCTION OF CONCRETE PITS FOR TRUCK SCALES ARE PART OF THIS CONTRACT. SEE STRUCTURAL DRAWINGS FOR DETAILS. CONTRACTOR IS RESPONSIBLE FOR GENERAL CONDITIONS TO COORDINATE WITH THE TRUCK SCALE SUPPLIER AND INSTALLER WHICH ARE UNDER SEPARATE CONTRACT.
 - CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH PNEUMATIC TUBE SYSTEM (P.T.S.) SUPPLIER AND INSTALLER ON ALL PHASES OF SYSTEM INSTALLATION WHICH ARE UNDER SEPARATE CONTRACT. THIS SHALL INCLUDE SCHEDULING OF PLACEMENT OF THE UNDERGROUND TUBE SYSTEM AND CONNECTIONS.
 - PROVIDE AND INSTALL (40) FORTY SIX (46) STEEL PIPE BRACKETS (VERTICAL 21/17) AS INDICATED ON FIRST FLOOR LEVEL PLAN.
 - CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE APPLICATION OF ALL STRIPING UNDER CANOPY.

DRAWN: JLV		DATE: 4/24/84	
CHECKED:	DATE:	APPROVED: <i>[Signature]</i> 5/31/84	
CHECKED:	DATE:	PROJECT MANAGER: <i>[Signature]</i> 5/31/84	
CHECKED:	DATE:	CHIEF ENGINEER: <i>[Signature]</i>	
CONT. NO. 560		SCALE: 1/8" = 1'-0"	
TWO BOOK (S)		DRAWING NO. EP-3880-23-M114	
NO AS-BUILT REVISIONS		SHEET 72 OF 88	



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



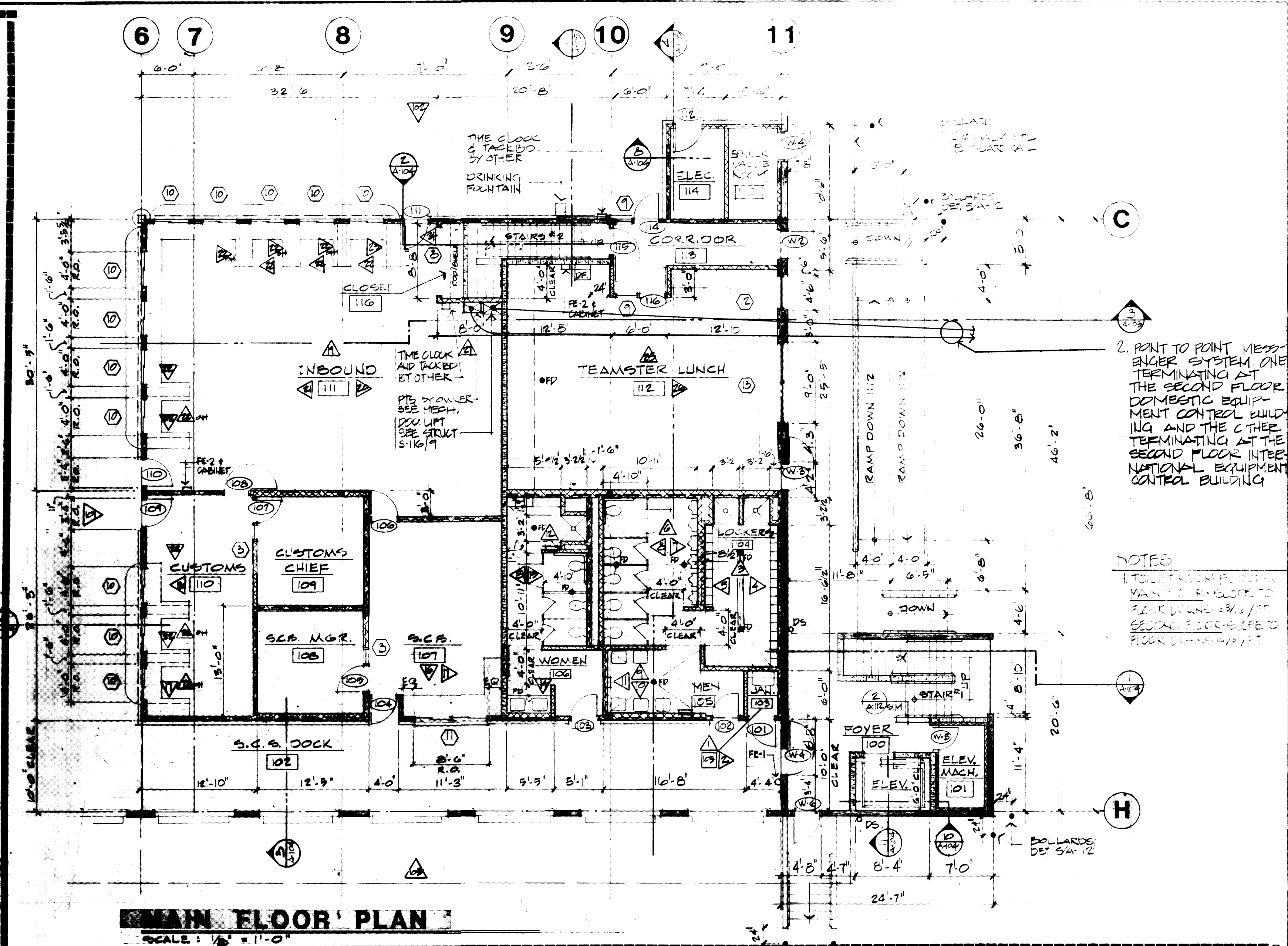
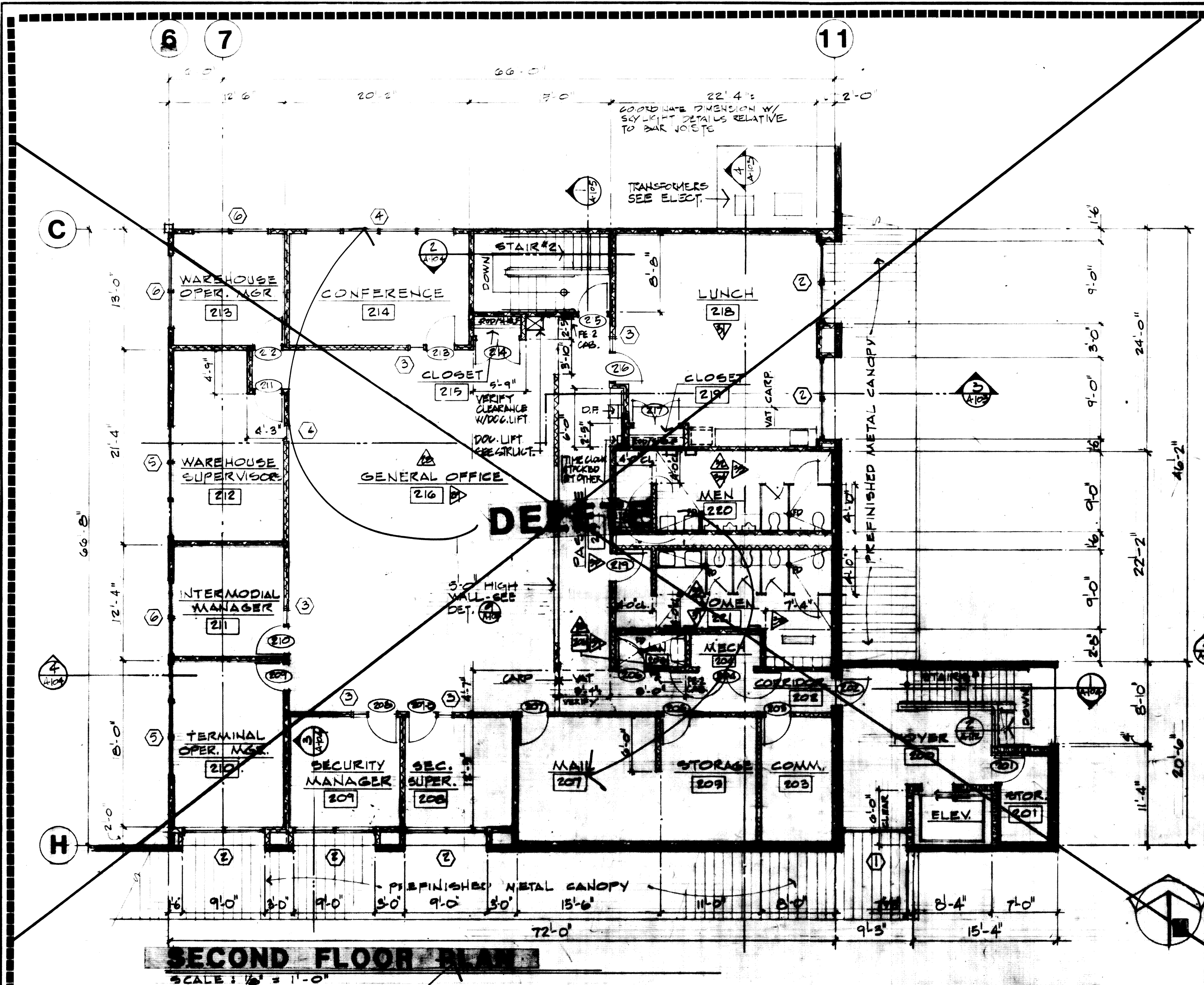
MEN 207 & WOMEN 208
SCALE 1/4" = 1'-0"

TOILET 214
SCALE 1/4" = 1'-0"

**MCGRANAHAN,
MESSENGER
ASSOCIATES**
ARCHITECTURE / PLANNING / INTERIORS
MEMBER AMERICAN INSTITUTE OF ARCHITECTS • 950 FAWCETT SUITE 200 TACOMA, WA 98402 • (206) 441-1100

MARK	REVISION	BY	APP	DATE
	1			1/18/85
	2			5/31/84

DRAWN _____		DATE _____		CHECKED _____		DATE _____		CHECKED _____		DATE _____		CONT NO. 560		FIELD BOOK (S) _____		APPROVED _____		DATE 5/31/84		SCALE _____		DRAWING NO. EP-3880-23-M116	
PROJECT: PORT OF TACOMA												TACOMA TERMINALS, INC.											
INTERNATIONAL EQUIPMENT CONTROL												PNEUMATIC TUBE SYSTEM											
CHIEF ENGINEER												SHEET 74 OF 88											



SECOND FLOOR												MAIN FLOOR											
RM. NO.	ROOM NAME	FLOOR MAT'L. FIN.	BASE	NORTH MAT'L. FIN.	EAST MAT'L. FIN.	SOUTH MAT'L. FIN.	WEST MAT'L. FIN.	CEILING MAT'L. FIN. HGT.	REMARKS	RM. NO.	ROOM NAME	FLOOR MAT'L. FIN.	BASE	NORTH MAT'L. FIN.	EAST MAT'L. FIN.	SOUTH MAT'L. FIN.	WEST MAT'L. FIN.	CEILING MAT'L. FIN. HGT.	REMARKS				
200	FOYER	CONC. BRICK	-	CONC. PT	CONC. PT	CONC. PT	CONC. PT	CONC. PT 10'-0"		100	FOYER	CONC. BRICK	-	CONC. PT	CONC. PT	CONC. PT	CONC. PT	CONC. PT 10'-0"					
201	STORAGE	CONC. TRAVEL	-	CONC. PT	CONC. PT	CONC. PT	CONC. PT	CONC. PT 10'-0"		101	ELEVATOR MACHINE	CONC. TRAVEL	-	CONC. PT	CONC. PT	CONC. PT	CONC. PT	CONC. PT 10'-0"					
202	CORR. DOOR	VAT S&W	R	VP PT	VP PT	VP PT	VP PT	ACT. - 9'-0"		102	S.G.S. DOCK	CONC. BRICK	-	CONC. PT	CONC. PT	CONC. PT	CONC. PT	CONC. PT 10'-0"					
203	COMMUNICATIONS	VAT S&W	R	VP PT	VP PT	VP PT	VP PT	ACT. - 9'-0"		103	JANITOR	CONC. TRAVEL	CT	CT	CT	CT	CT	CONC. PT 8'-4"					
204	MECHANICAL	VAT S&W	R	VP PT	VP PT	VP PT	VP PT	VP PT 9'-0"		104	LOCKERS	CMT	CT	CT	CT	CT	CT	CONC. PT 8'-4"					
205	STORAGE	VAT S&W	R	VP PT	VP PT	VP PT	VP PT	ACT. - 9'-0"		105	MEN	CMT	CT	CT	CT	CT	CT	CONC. PT 8'-4"					
206	JANITOR	CONC. TRAVEL	CT	CONC. PT	CONC. PT	CONC. PT	CONC. PT	CONC. PT 9'-0"		106	WOMEN	CMT	CT	CT	CT	CT	CT	ACT. - 8'-4"					
207	MAIL	VAT S&W	R	VP PT	VP PT	VP PT	VP PT	ACT. - 9'-0"		107	BOS	VAT S&W	R	VP PT	VP PT	VP PT	VP PT	ACT. - 9'-0"					
208	SECURITY SUPERVISOR	CARP	-	VP PT	VP PT	VP PT	VP PT	ACT. - 9'-0"		108	BOS MANAGER	CARP	-	VP PT	VP PT	VP PT	VP PT	ACT. - 9'-0"					
209	SECURITY MANAGER	CARP	-	VP PT	VP PT	VP PT	VP PT	ACT. - 9'-0"		109	CUSTOMS CHIEF	VAT S&W	R	VP PT	VP PT	VP PT	VP PT	ACT. - 9'-0"					
210	TERMINAL OPERATIONS MANAGER	CARP	-	VP PT	VP PT	VP PT	VP PT	ACT. - 9'-0"		110	CUSTOMS	VAT S&W	R	VP PT	VP PT	VP PT	VP PT	ACT. - 9'-0"					
211	INTERMODAL MANAGER	CARP	-	VP PT	VP PT	VP PT	VP PT	ACT. - 9'-0"		111	INBOUND	VAT S&W	R	VP PT	VP PT	VP PT	VP PT	ACT. - 9'-0"					
212	WAREHOUSE SUPERVISORS	CARP	-	VP PT	VP PT	VP PT	VP PT	ACT. - 9'-0"		112	TEAMSTER LUNCH	VAT S&W	R	VP PT	VP PT	VP PT	VP PT	ACT. - 9'-0"					
213	WAREHOUSE OPERATIONS MANAGER	CARP	-	VP PT	VP PT	VP PT	VP PT	ACT. - 9'-0"		113	CORRIDOR	VAT S&W	R	VP PT	VP PT	VP PT	VP PT	ACT. - 9'-0"					
214	CONFERENCE	CARP	-	VP PT	VP PT	VP PT	VP PT	ACT. - 9'-0"		114	ELECTRICAL	CONC. TRAVEL	R	GWB PT	GWB PT	GWB PT	GWB PT	GWB PT 9'-0"					
215	CLOSET	CARP	-	VP PT	VP PT	VP PT	VP PT	VP PT 9'-0"		115	SPRINKLER VALVE ROOM	CONC. TRAVEL	R	GWB PT	GWB PT	GWB PT	GWB PT	GWB PT 9'-0"					
216	GENERAL OFFICE	CARP	-	VP PT	VP PT	VP PT	VP PT	ACT. - 10'-0"		116	CLOSET	VAT S&W	R	VP PT	VP PT	VP PT	VP PT	VP PT 8'-0"					
217	PASSAGE	VAT S&W	R	VP PT	VP PT	VP PT	VP PT	ACT. - 9'-0"		117	SPRINKLER VALVE ROOM	CONC. TRAVEL	-	GWB	GWB	GWB	GWB	GWB - 9'-0"	TAPE ONLY				
218	LUNCH	VAT S&W	R	VP PT	VP PT	VP PT	VP PT	ACT. - 9'-0"															
219	CLOSET	VAT S&W	R	VP PT	VP PT	VP PT	VP PT	VP PT 9'-0"															
220	MEN	CMT	CT	CT	CT	CT	CT	ACT. - 8'-4"		#1	STAIRS	CONC. TRAVEL	R	CONC. PT	CONC. PT	CONC. PT	CONC. PT	CONC. PT 10'-0"					
221	WOMEN	CMT	CT	CT	CT	CT	CT	ACT. - 8'-4"		#2	STAIRS	R	-	VP PT	VP PT	VP PT	VP PT	ACT. - 9'-0"					

WALL TYPES

- 3/8" METAL STUDS @ 16" O.C.
- 3/8" METAL STUDS @ 16" O.C. TO STRUCTURE WITH INSULATION SEAL TOP AND BOTTOM TRACKS AT INTERIOR PARTITIONS (SOUND WALLS)
- 6" METAL STUDS @ 16" O.C. TO STRUCTURE WITH INSUL. SEE NOTE FOR 3/8" STUDS.
- 8" CMU.
- CONC. TILT-UP PANEL.

ABBREVIATIONS

- CONC. CONCRETE
- VAT VINYL ASBESTOS TILE
- CARP CERAMIC MOSAIC TILE
- CMT CERAMIC TILE
- VWC VINYL WALL COVERING
- VP VENEER PLASTER
- GWB GYPSUM WALL BOARD
- RUBBER RUBBER
- ACT. ACOUSTICAL TILE
- SEV SEAL & VMC

PORT OF TACOMA
TACOMA TERMINALS, INC.
C.F.S. BUILDING
PNEUMATIC TUBE SYSTEM

DRAWN JDM
DATE 3-23-84

CHECKED
DATE
CHECKED
DATE

CONT. NO. 560

FIELD BOOK (S)

APPROVED

PROJECT MANAGER

CHEF ENGINEER

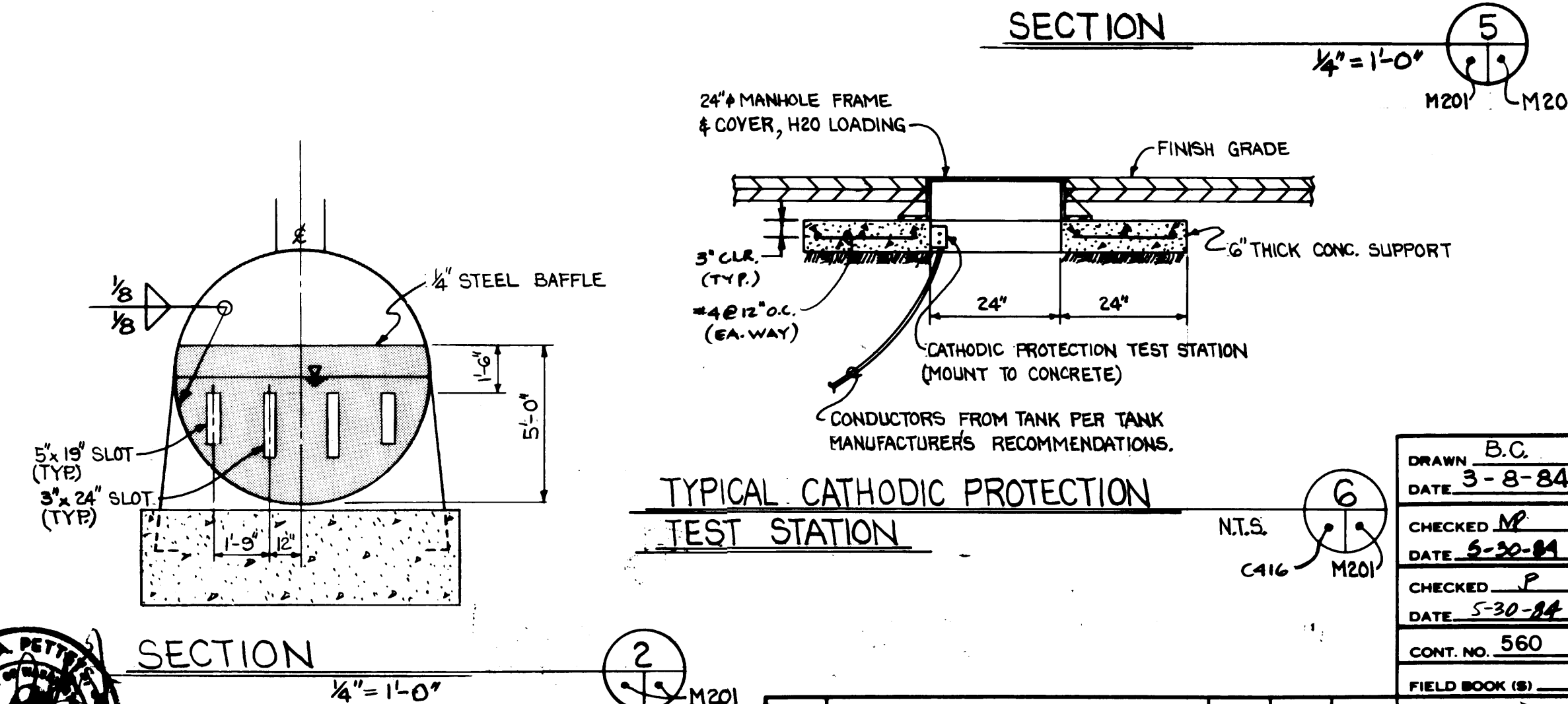
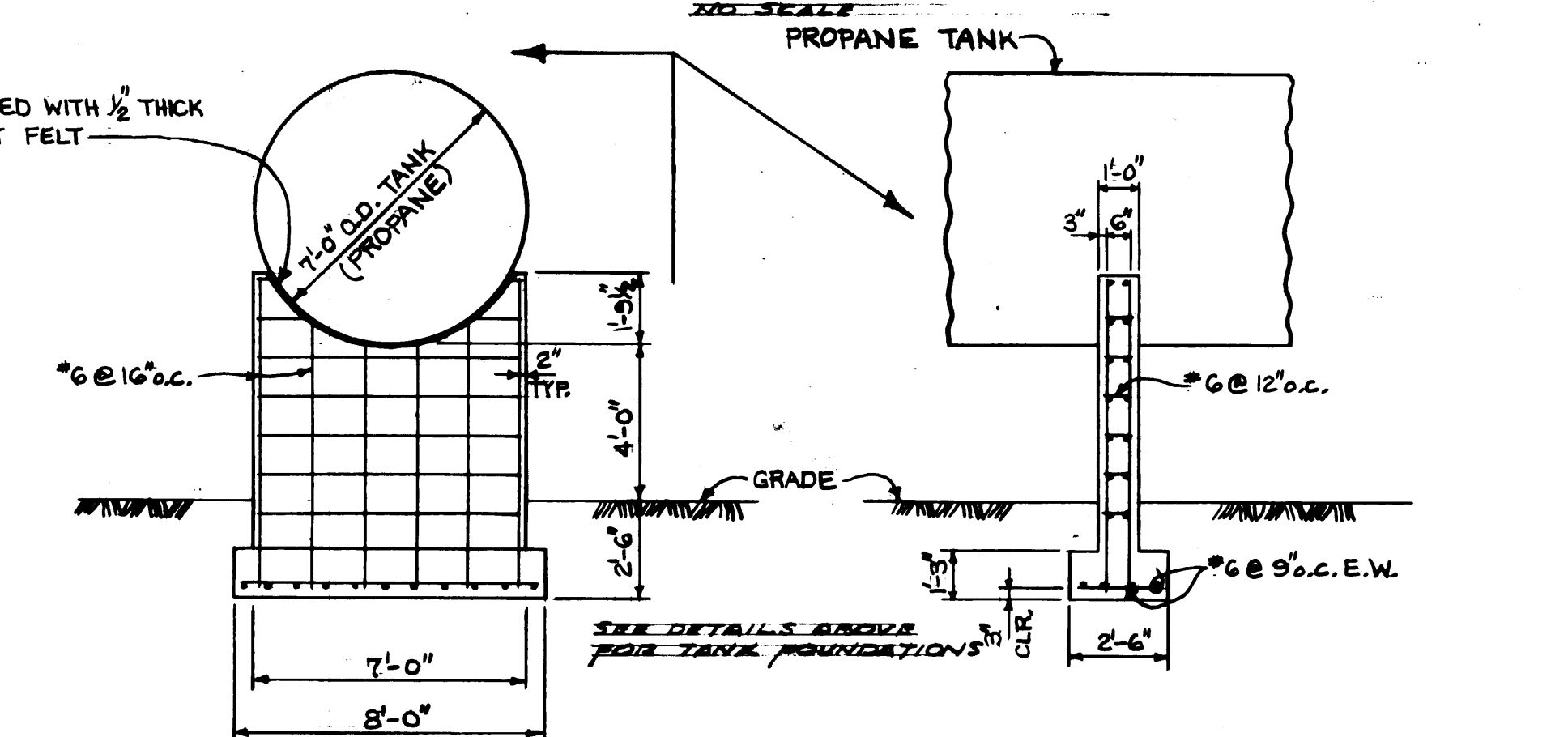
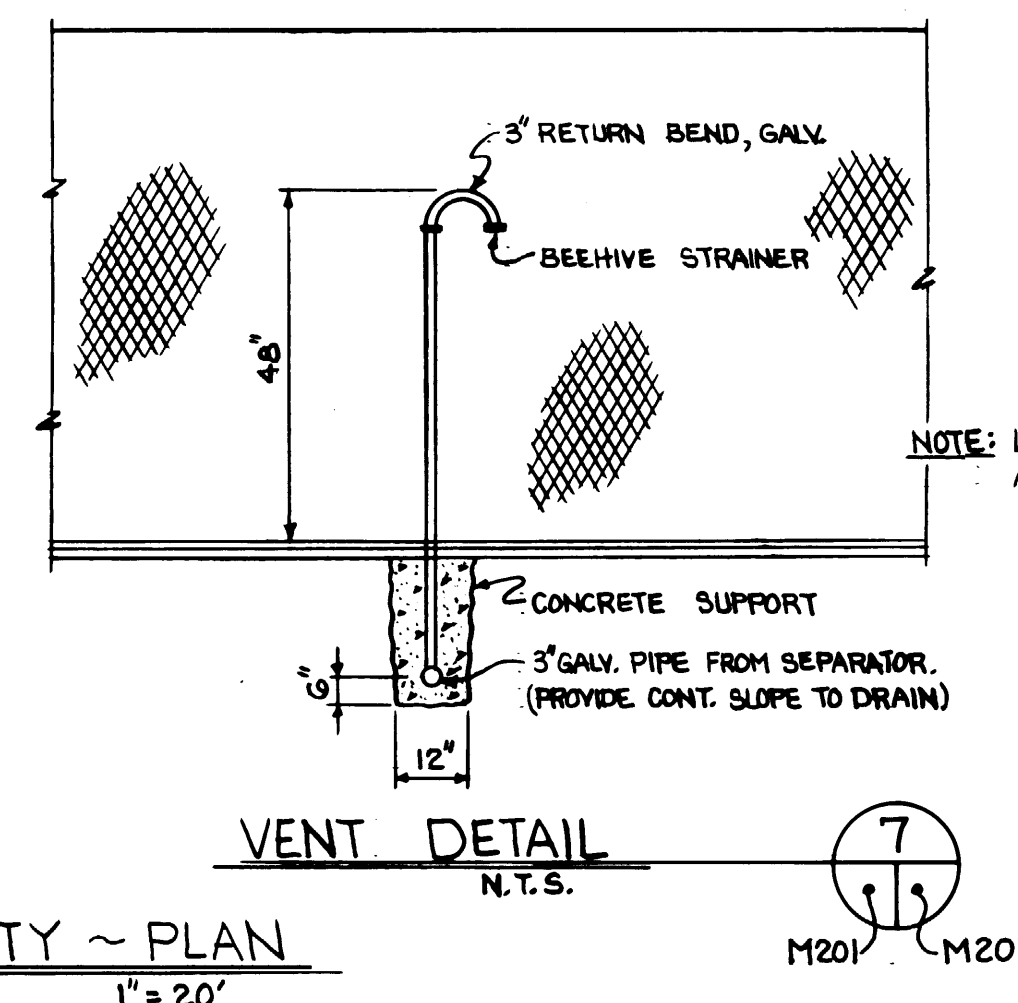
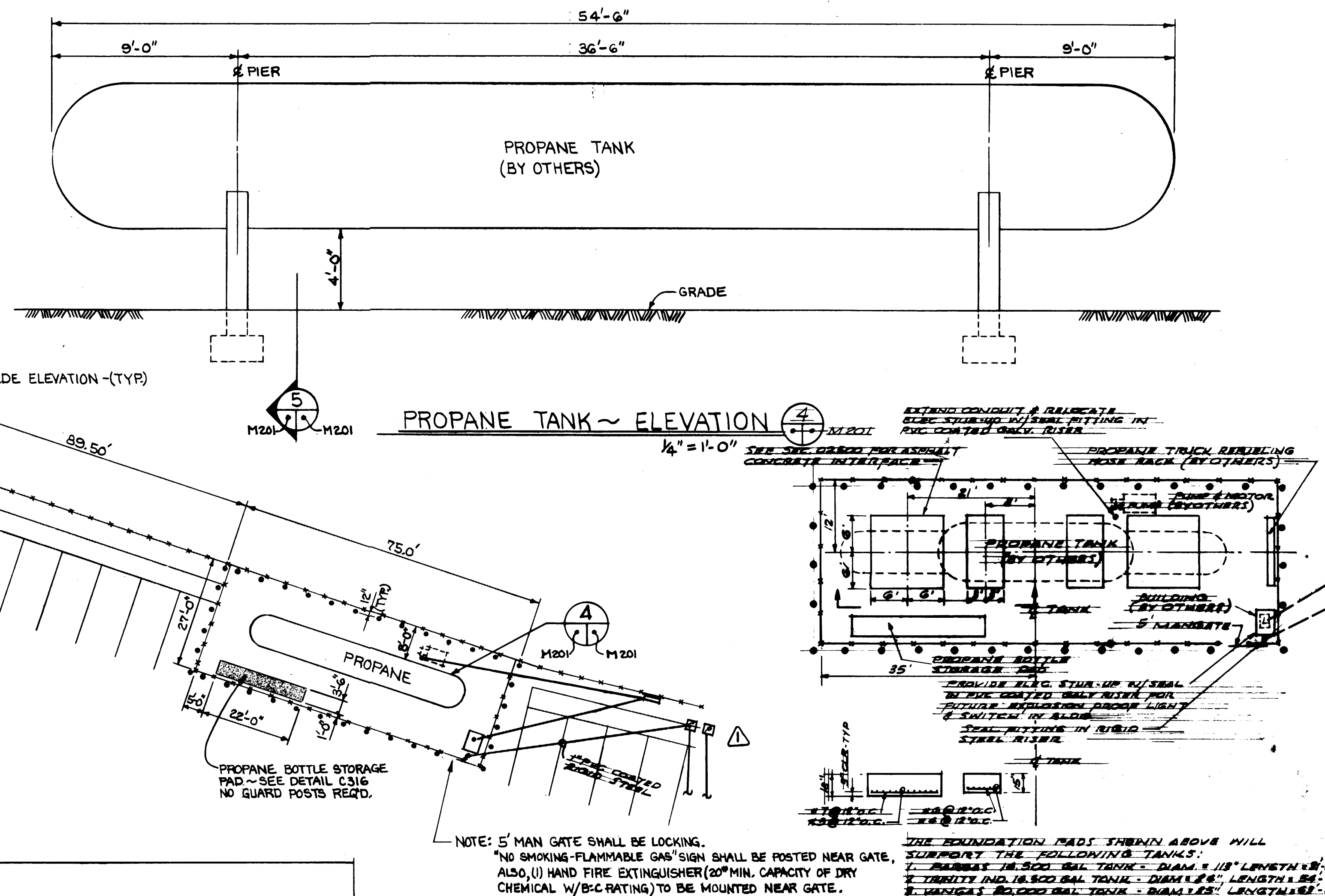
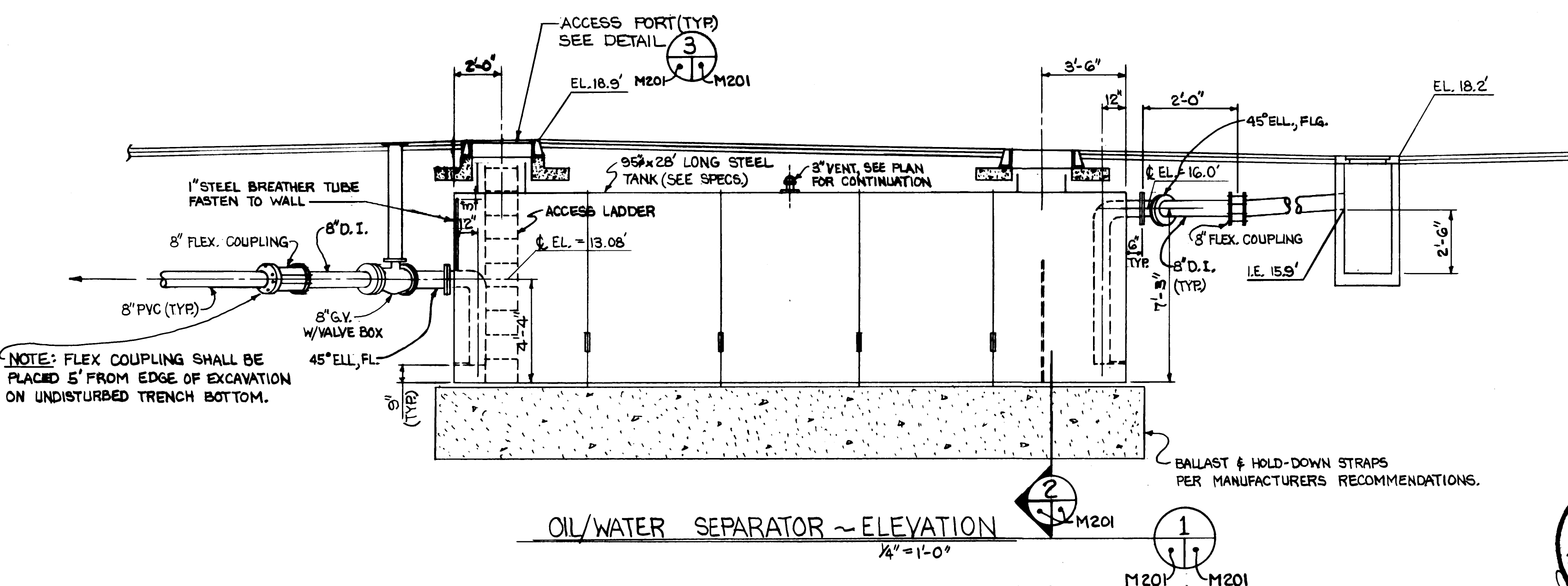
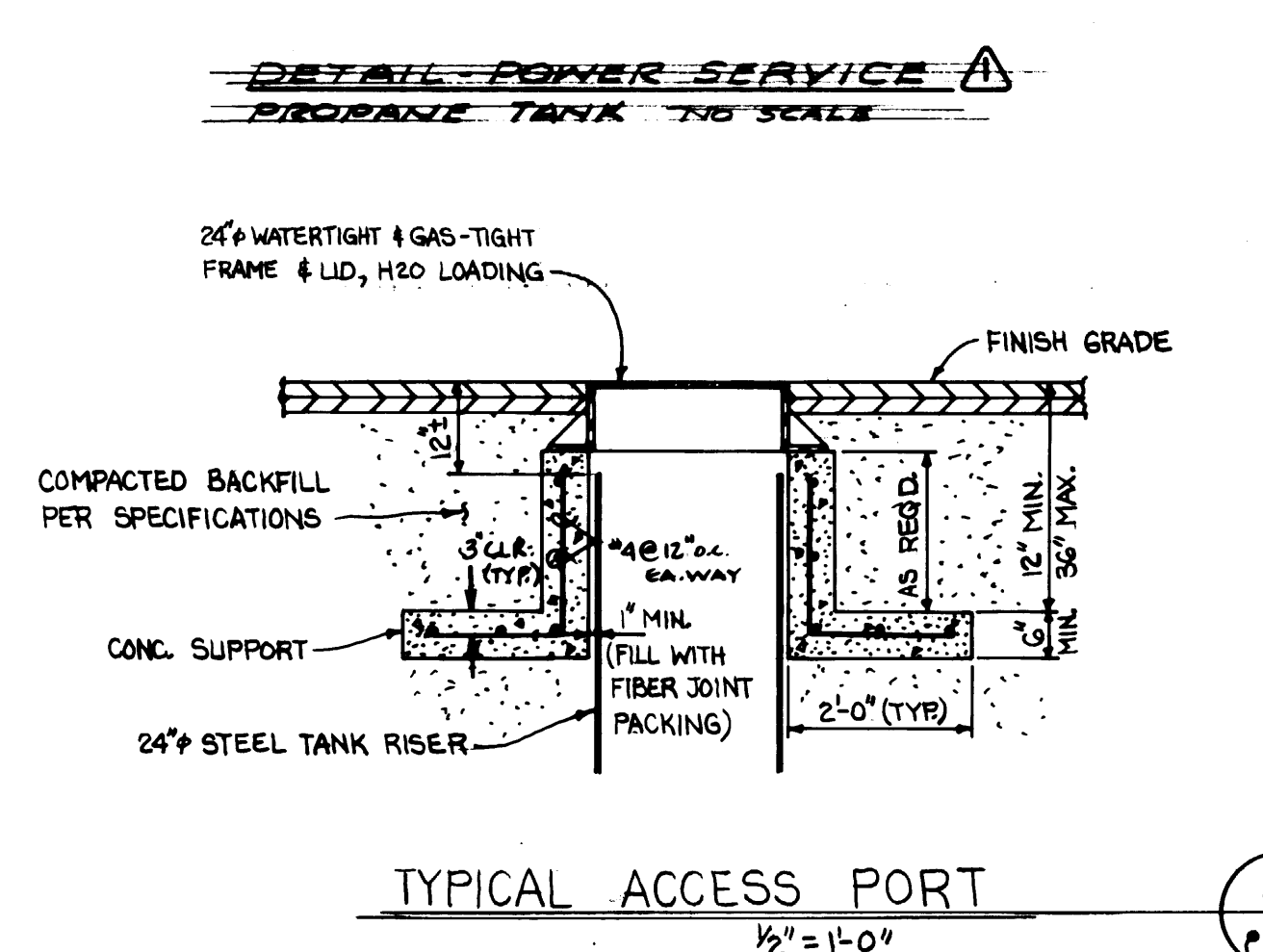
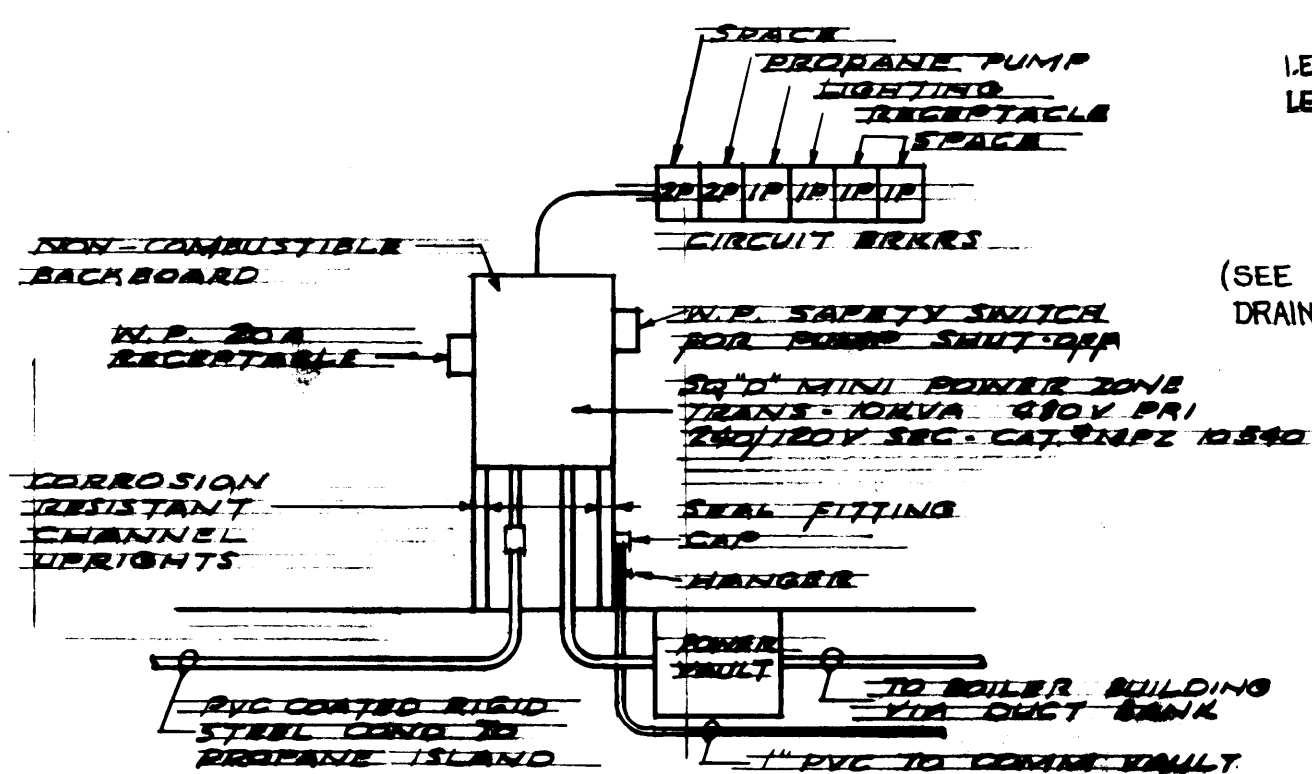
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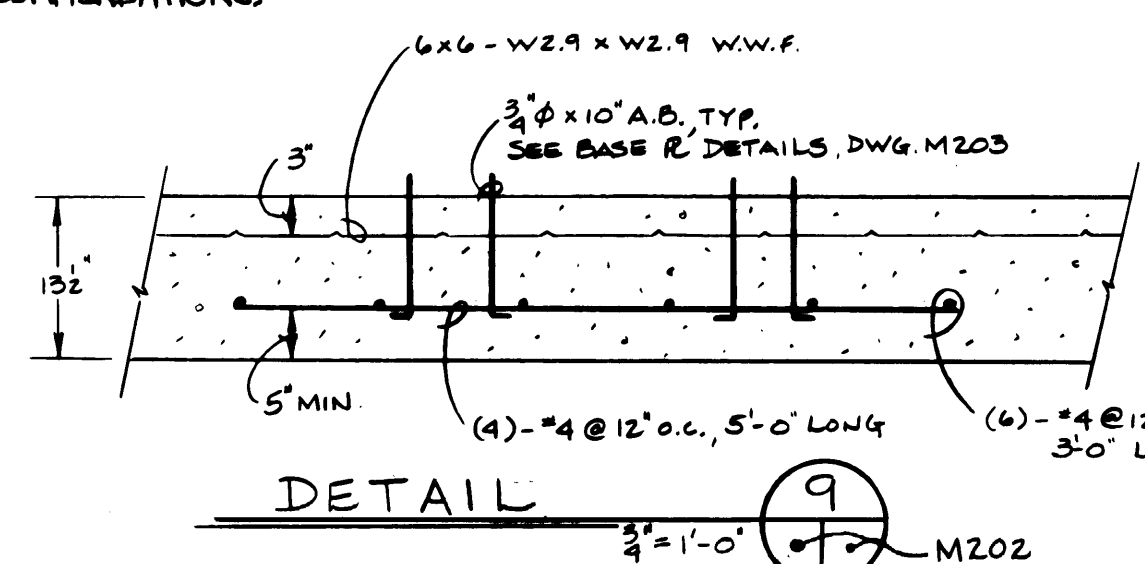
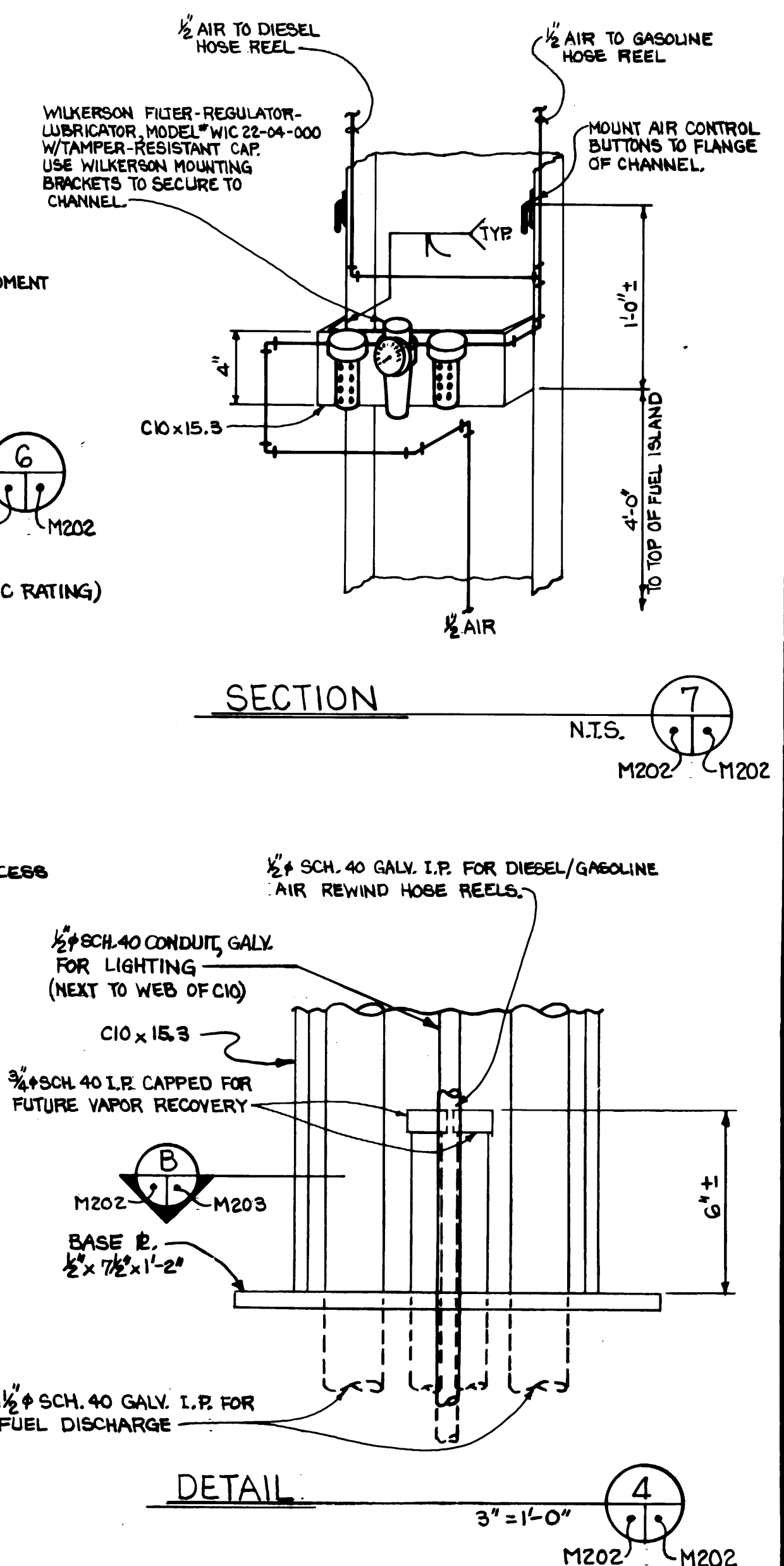
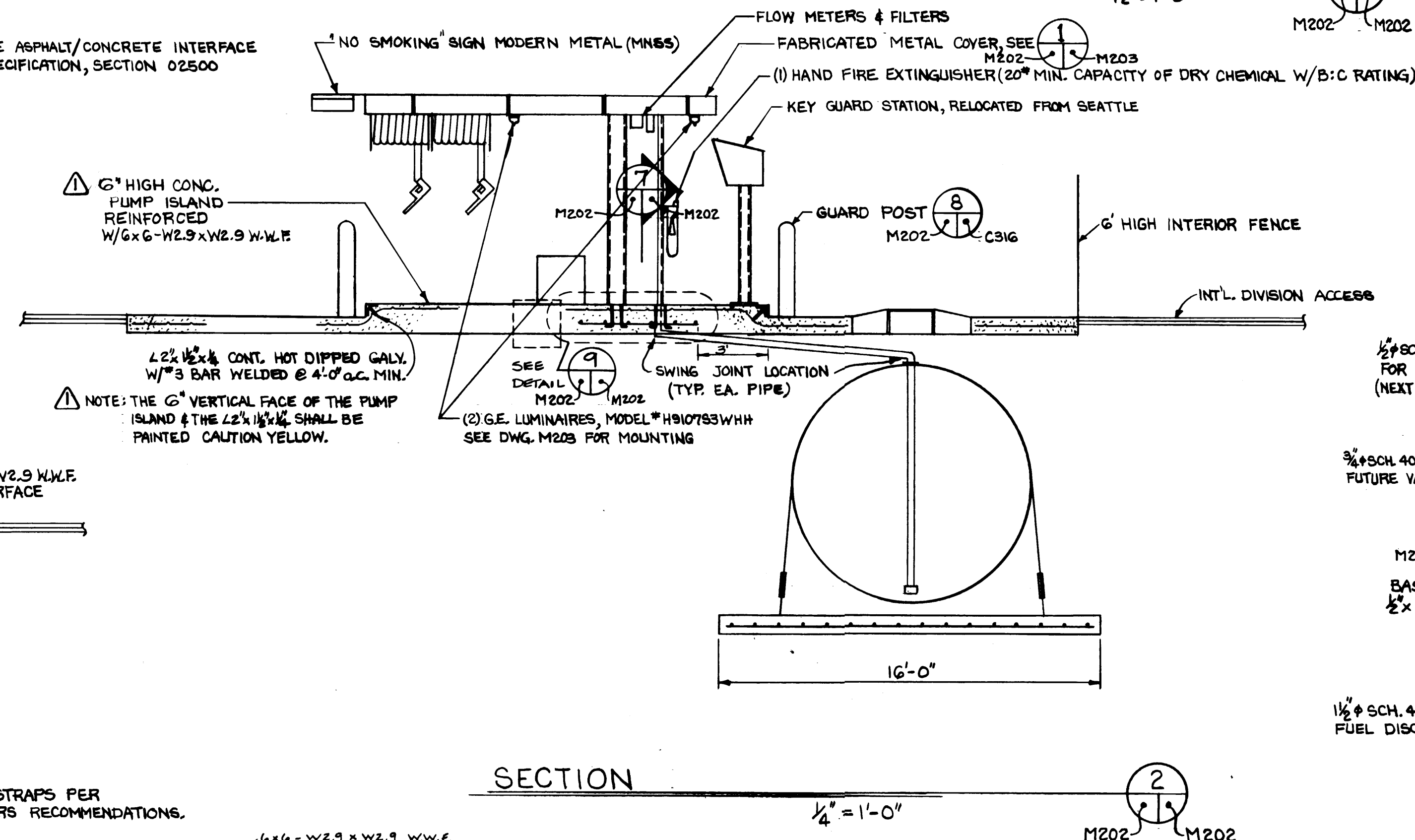
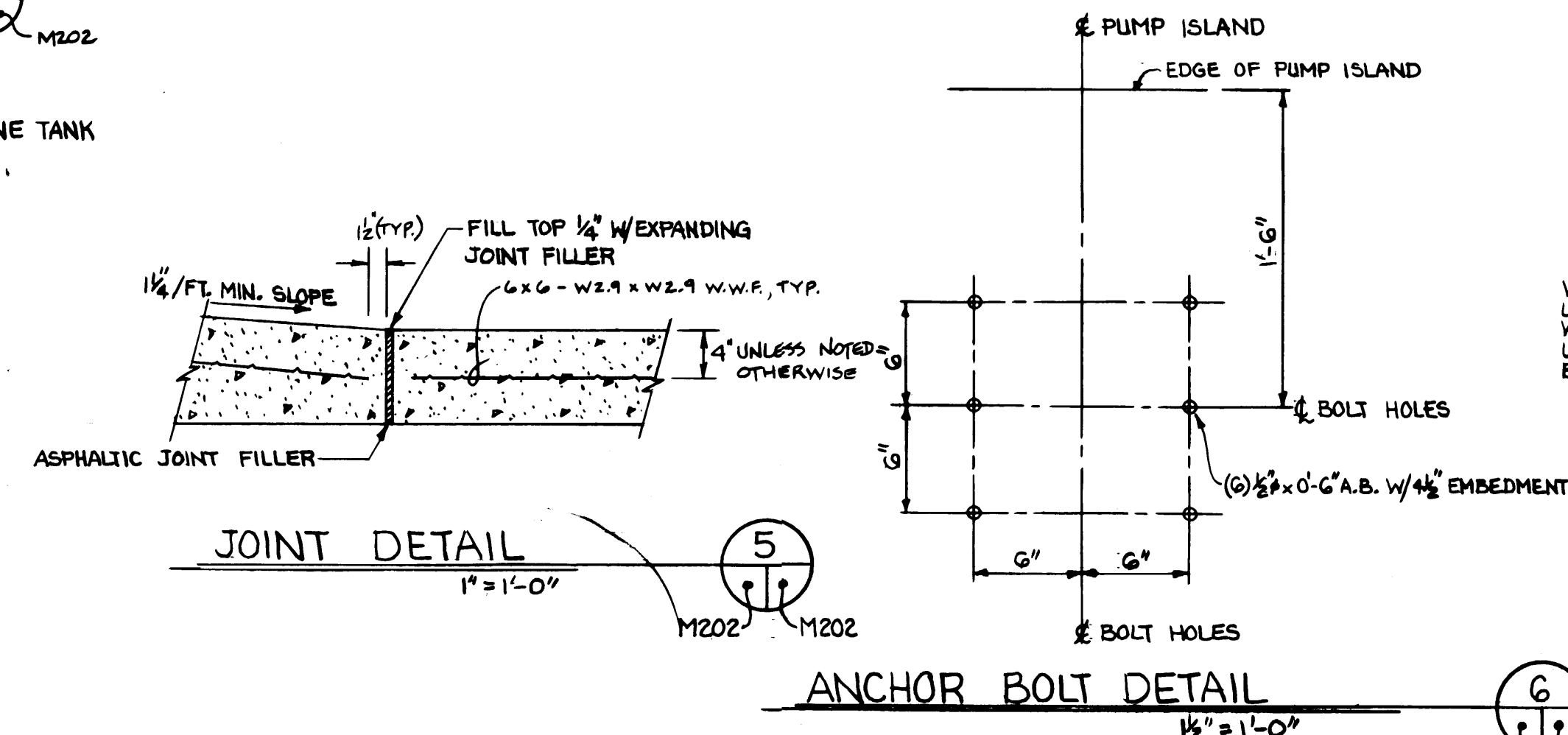
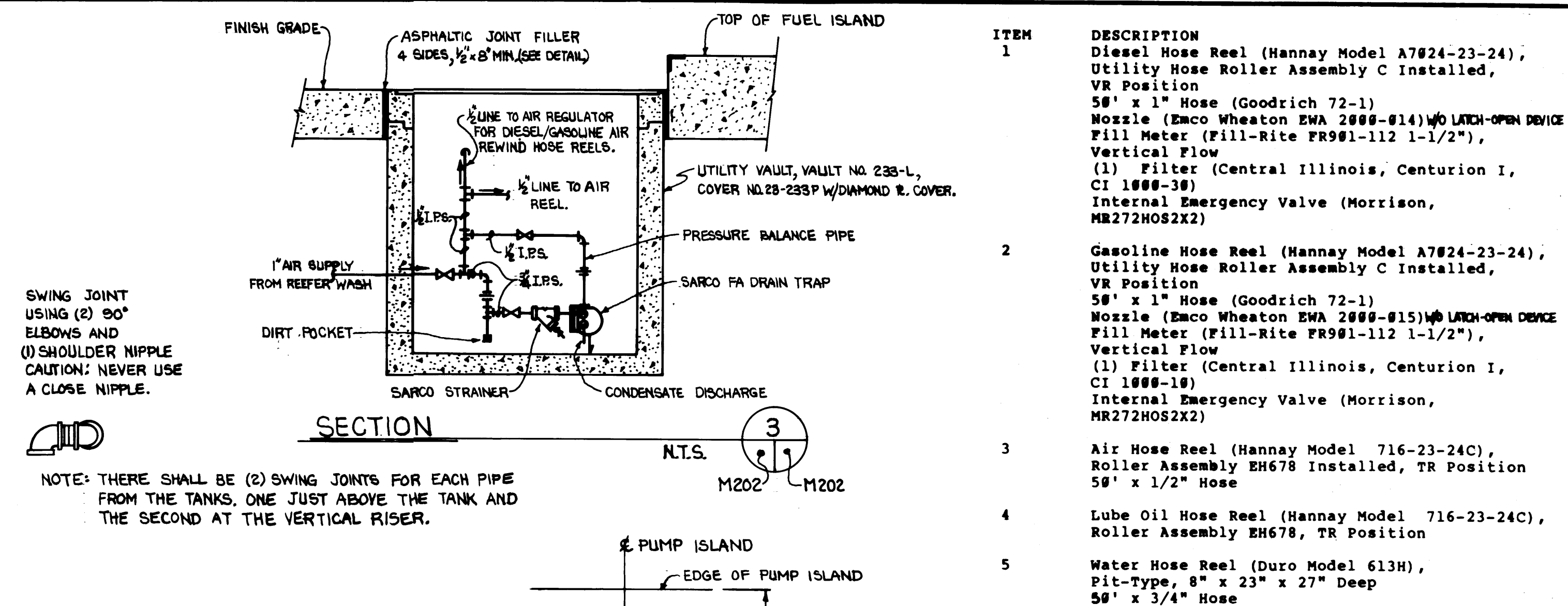
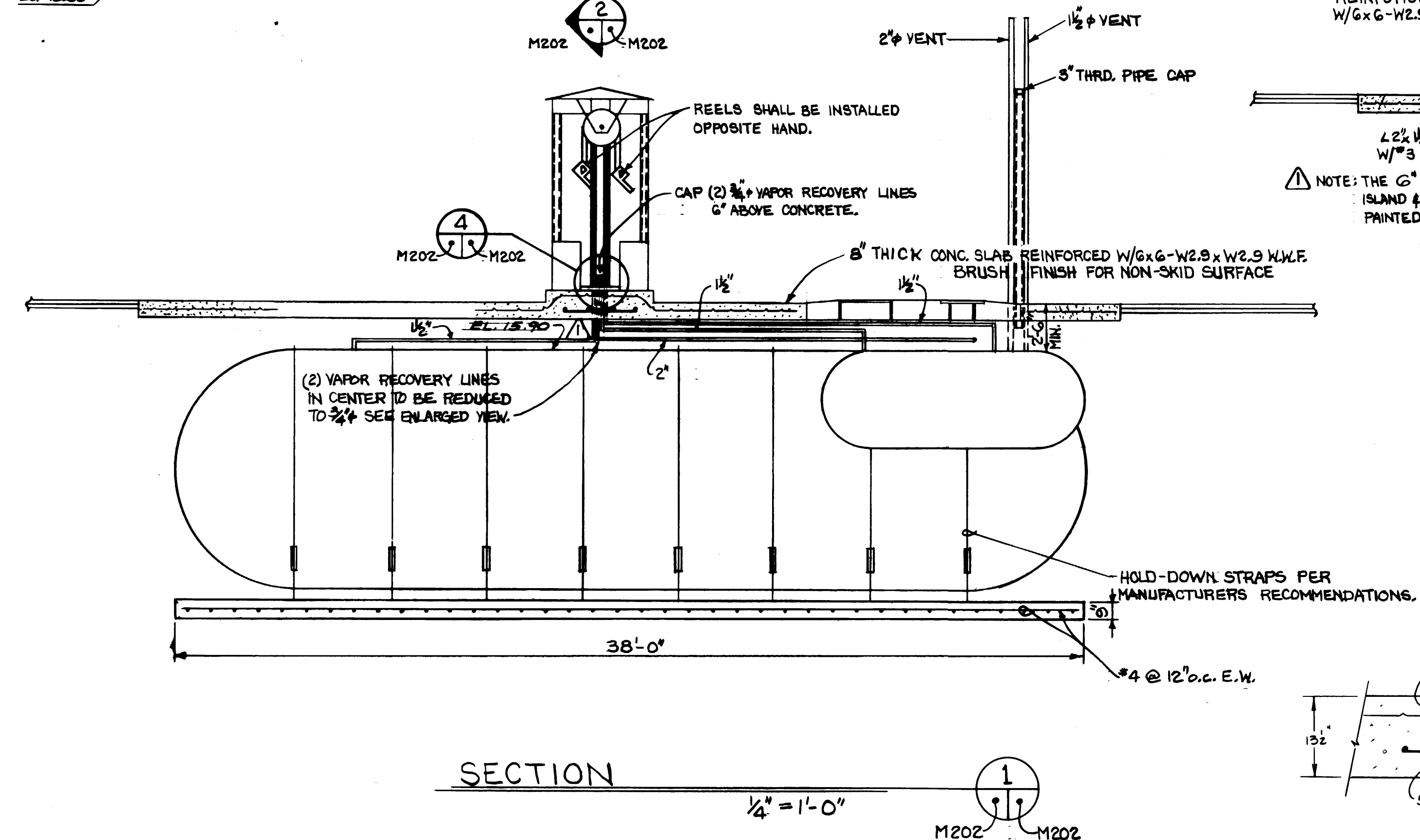
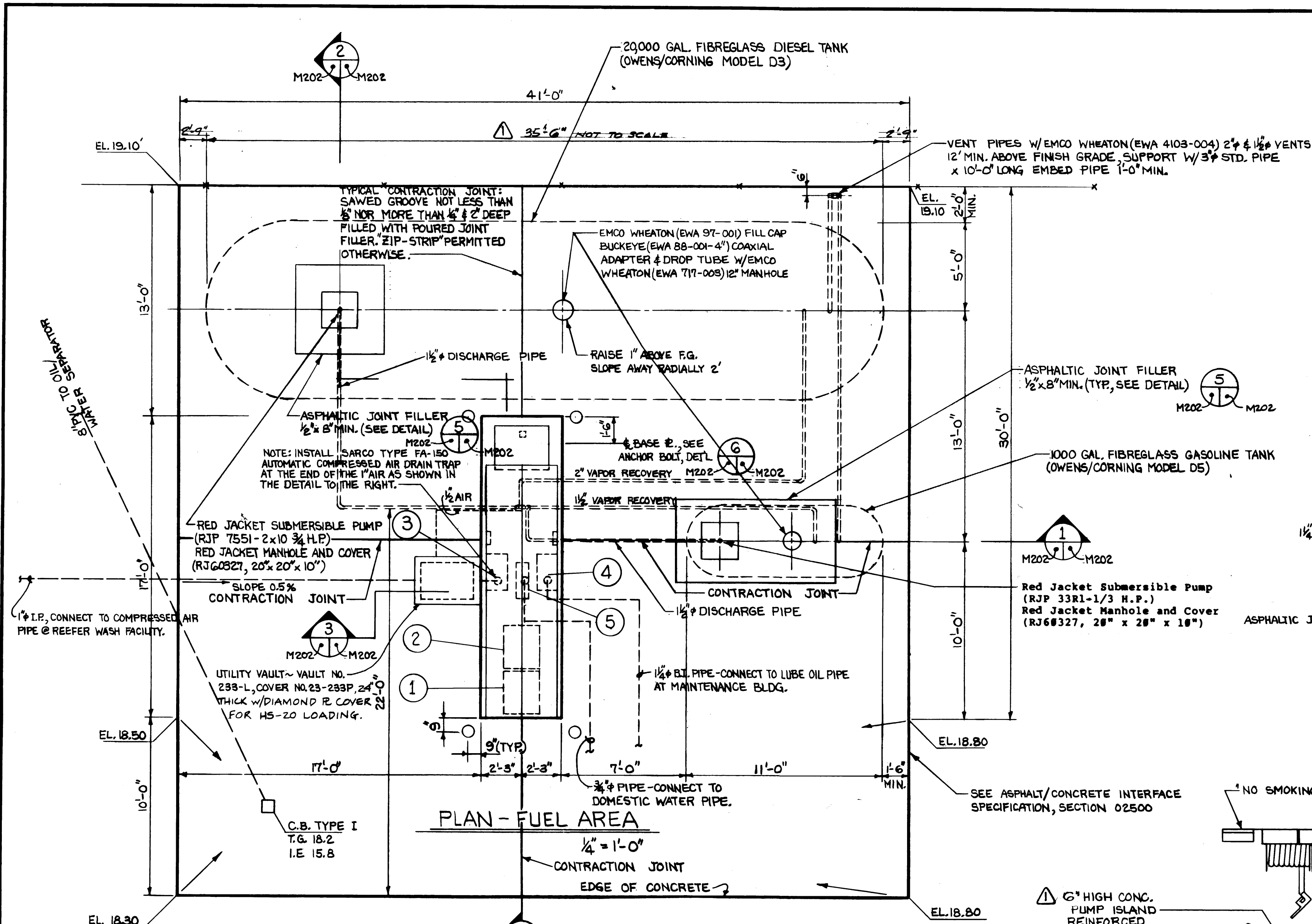
EP-3880-23-M117

75 OF 88

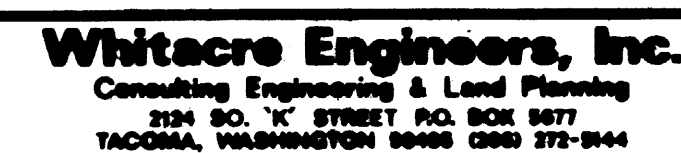
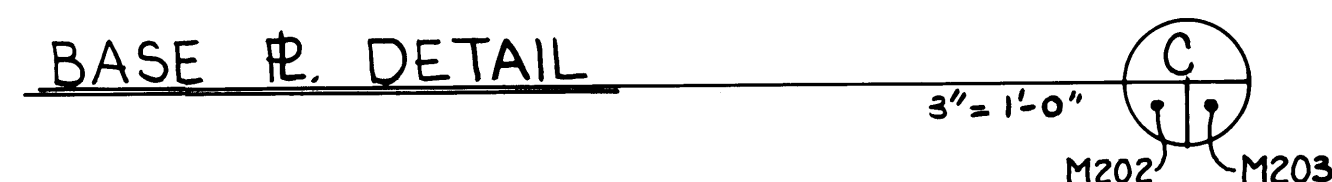
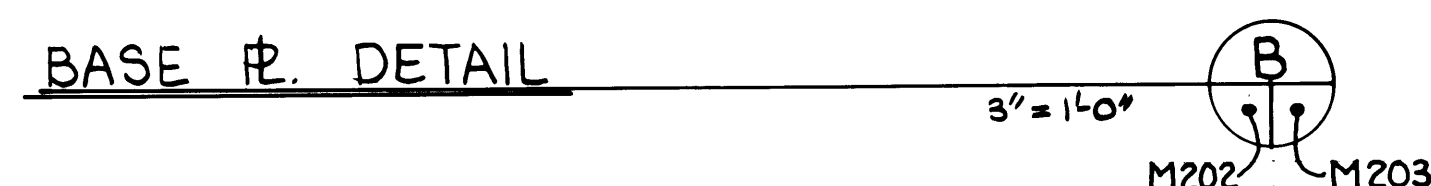
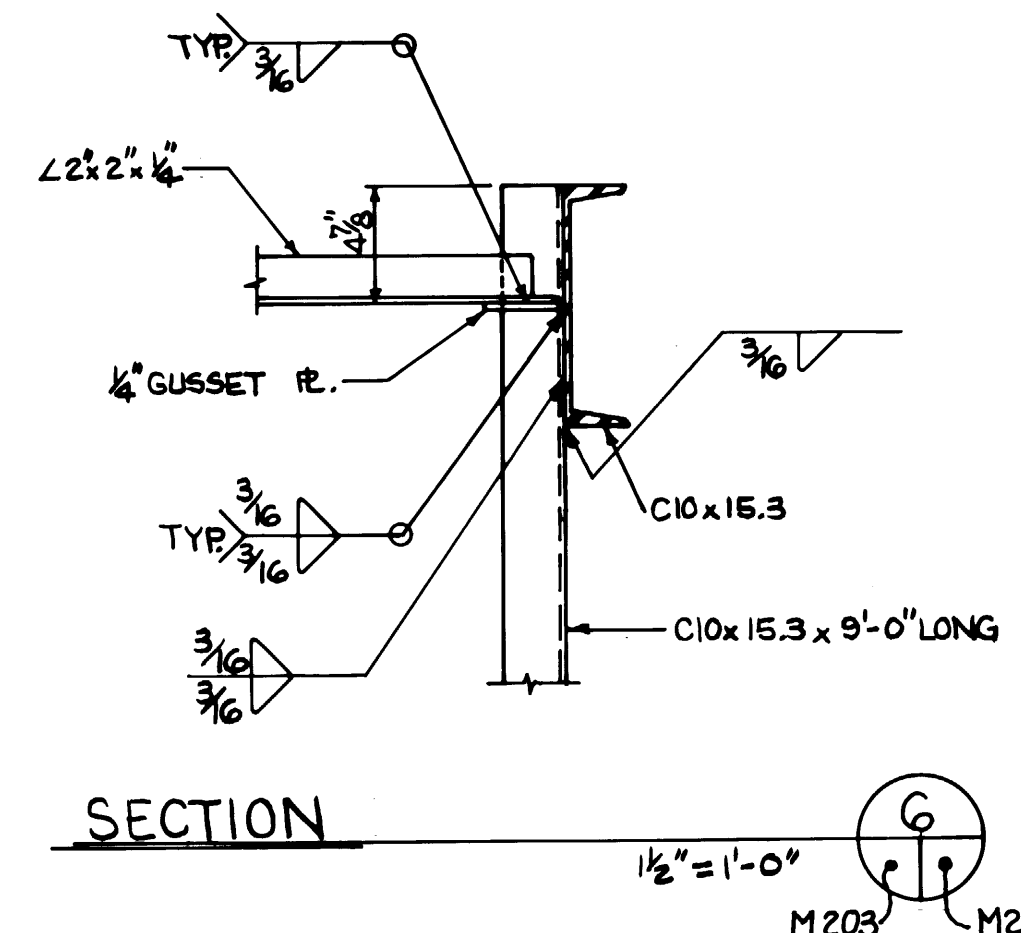
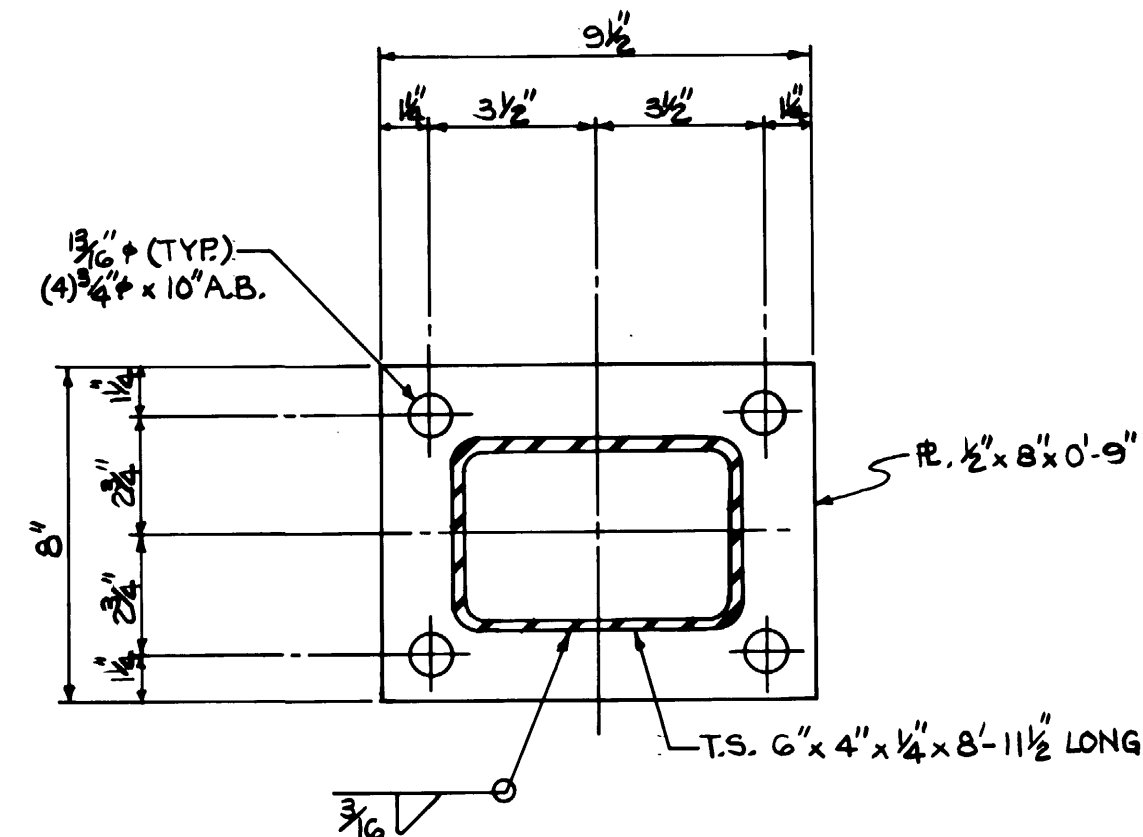
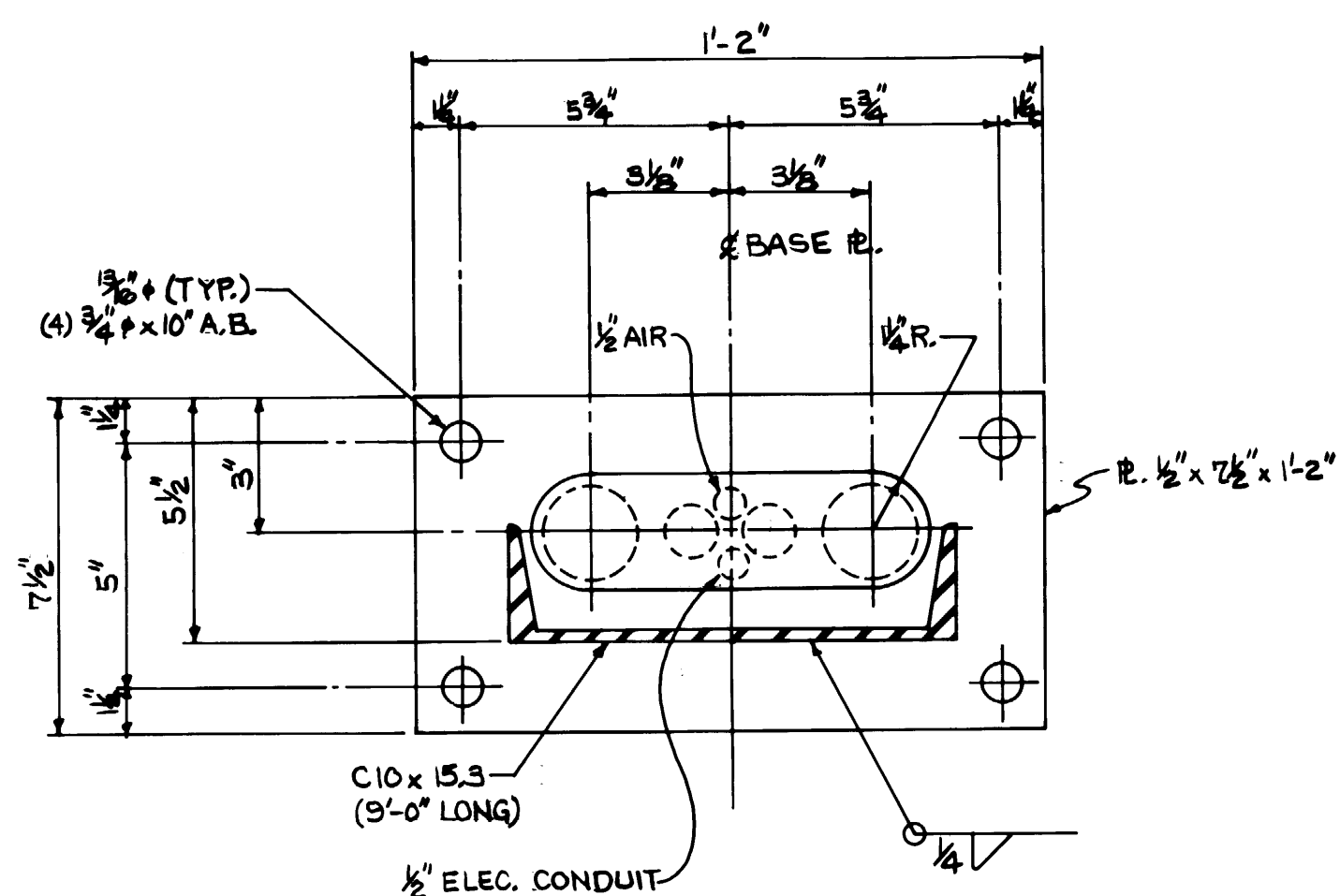
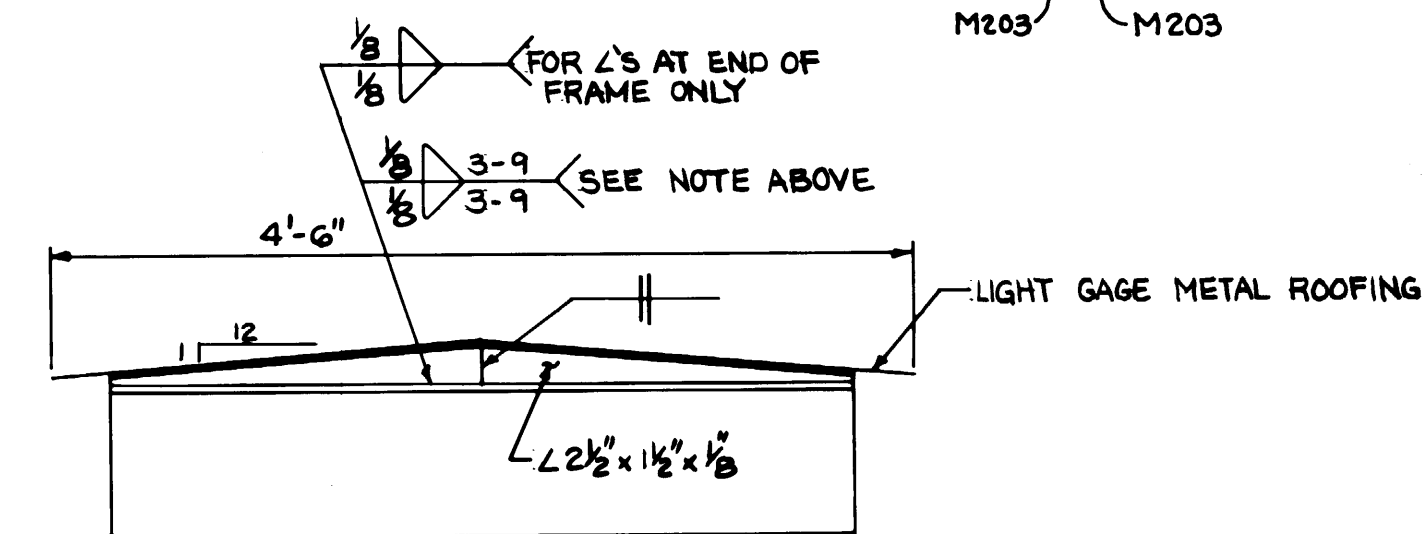
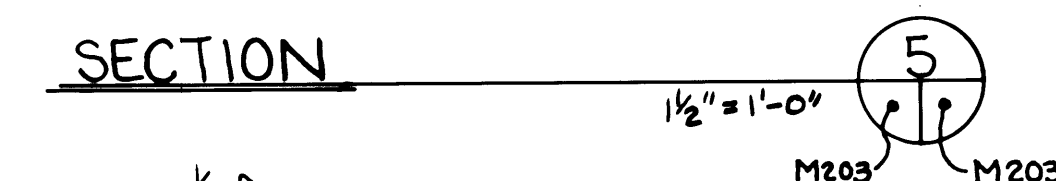
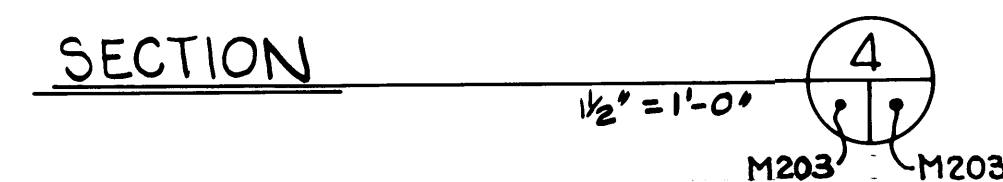
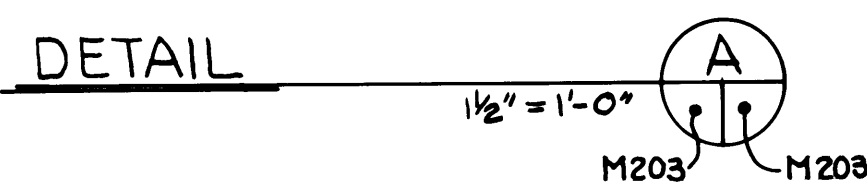
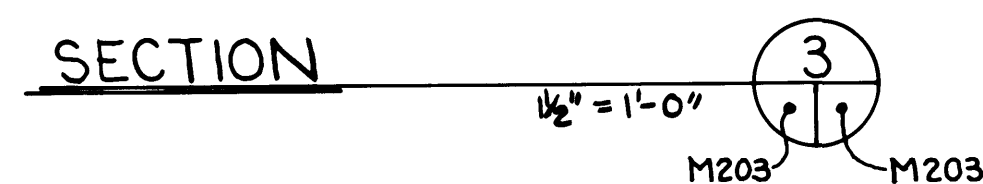
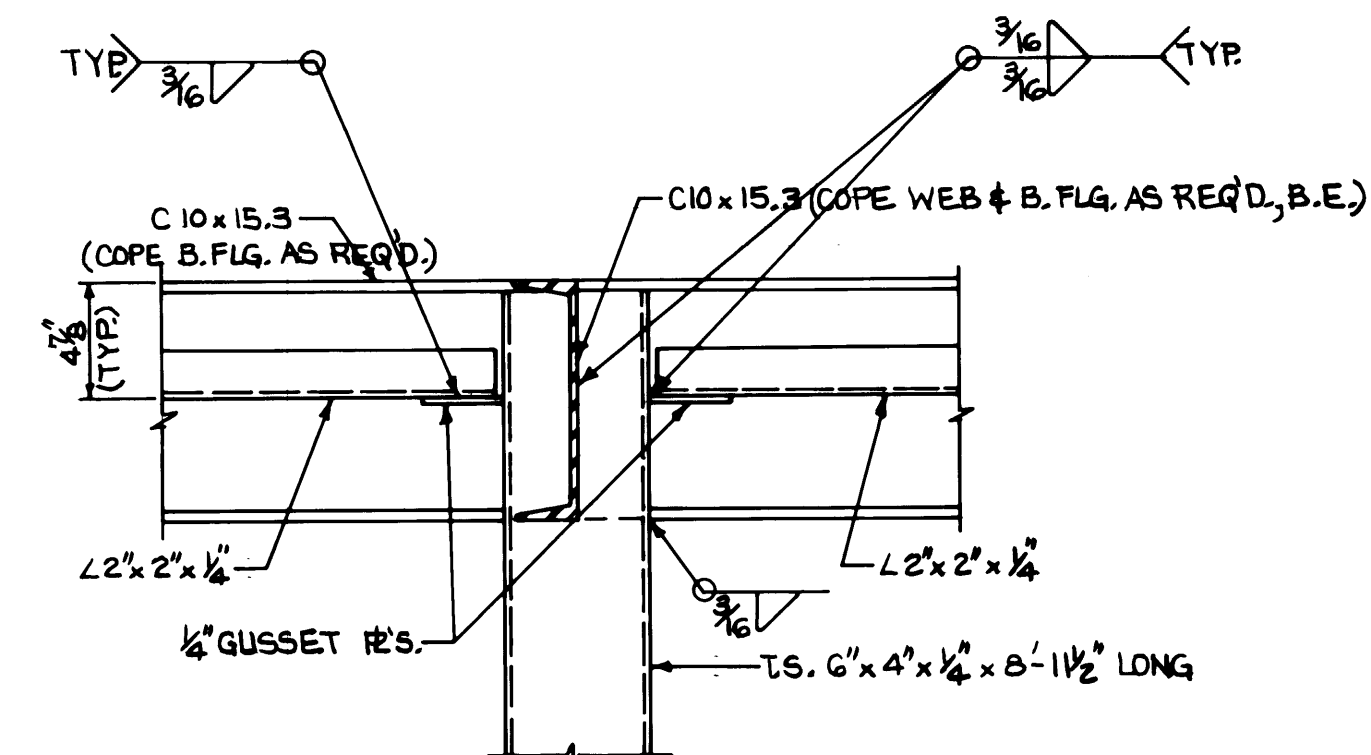
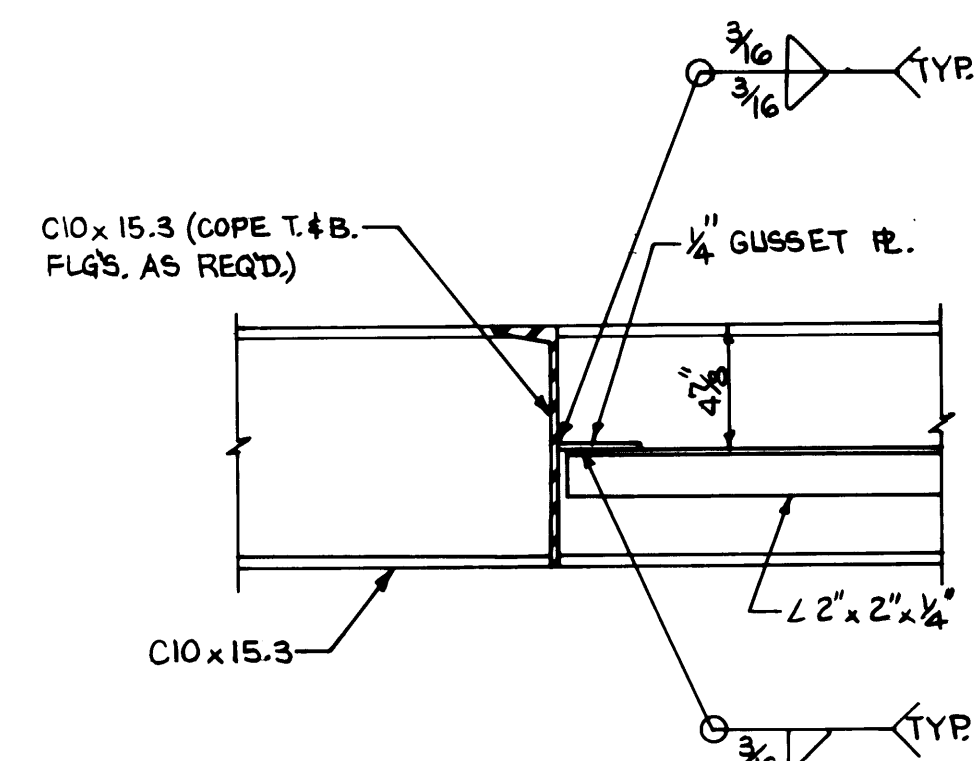
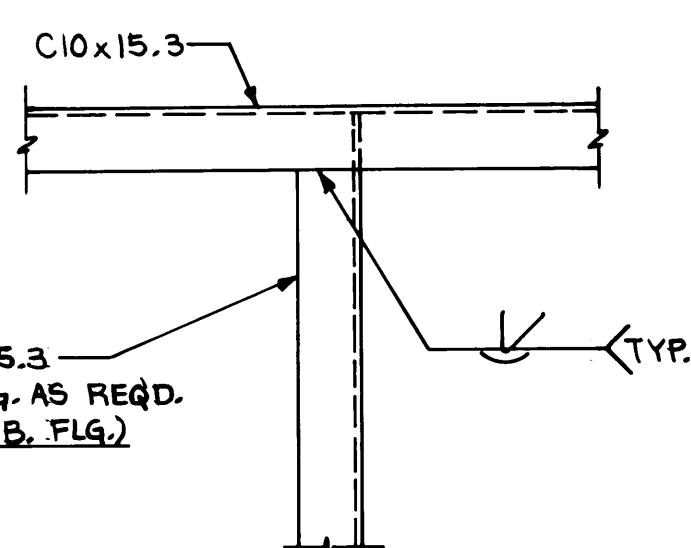
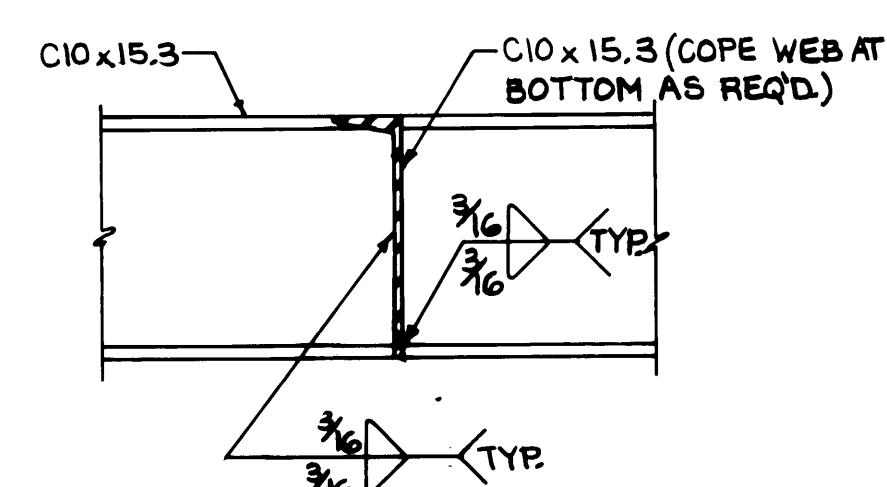
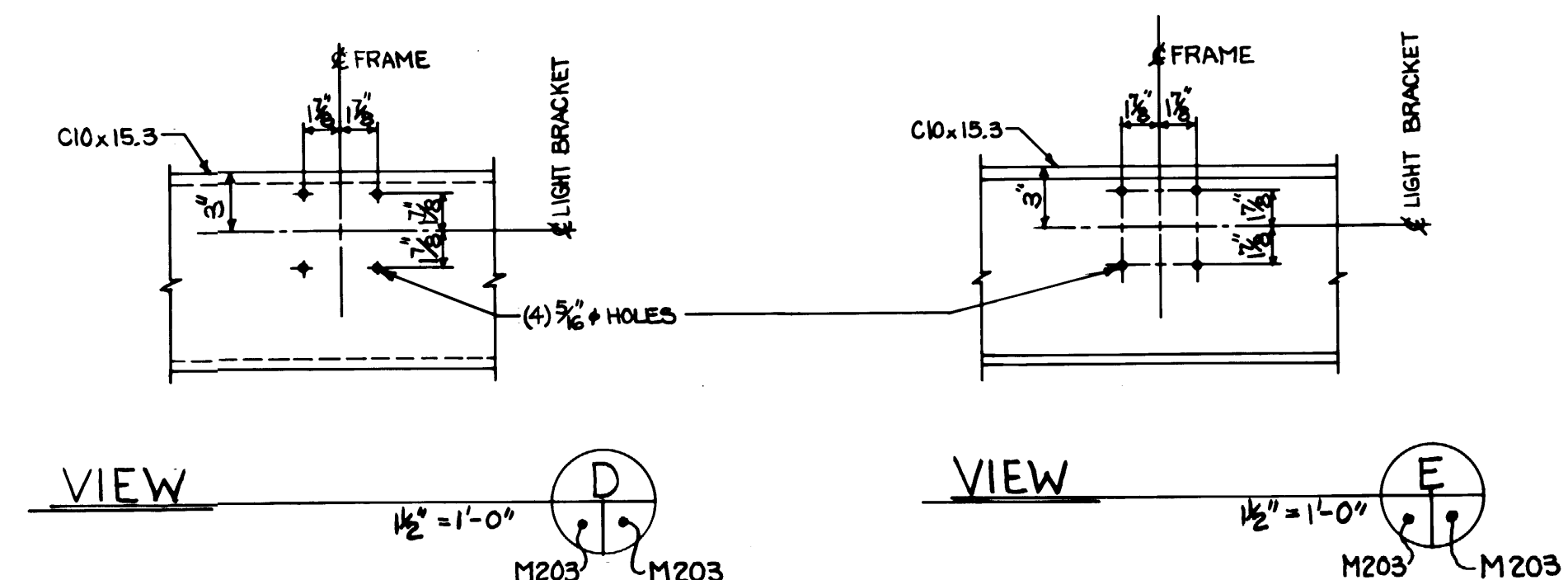
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DRAWN <u>B.C.</u>	PORT OF TACOMA	
DATE <u>3-8-84</u>		
CHECKED <u>MP</u>	TACOMA TERMINALS, INC.	
DATE <u>3-20-84</u>		
CHECKED <u>P</u>	FUELING FACILITY	
DATE <u>5-30-84</u>		
CONT. NO. <u>560</u>		
FIELD BOOK (S) _____		SCALE <u>AS NOTED</u>
APPROVED <u><i>John T. [Signature]</i></u>	<u>5/3/84</u>	DRAWING NO.
PROJECT MANAGER _____	DATE _____	<u>EP-3880-23-M2C</u>
CHIEF ENGINEER <u><i>DA Macdonald</i></u>	DATE <u>5/4/84</u>	SHEET <u>77</u> OF <u>88</u>



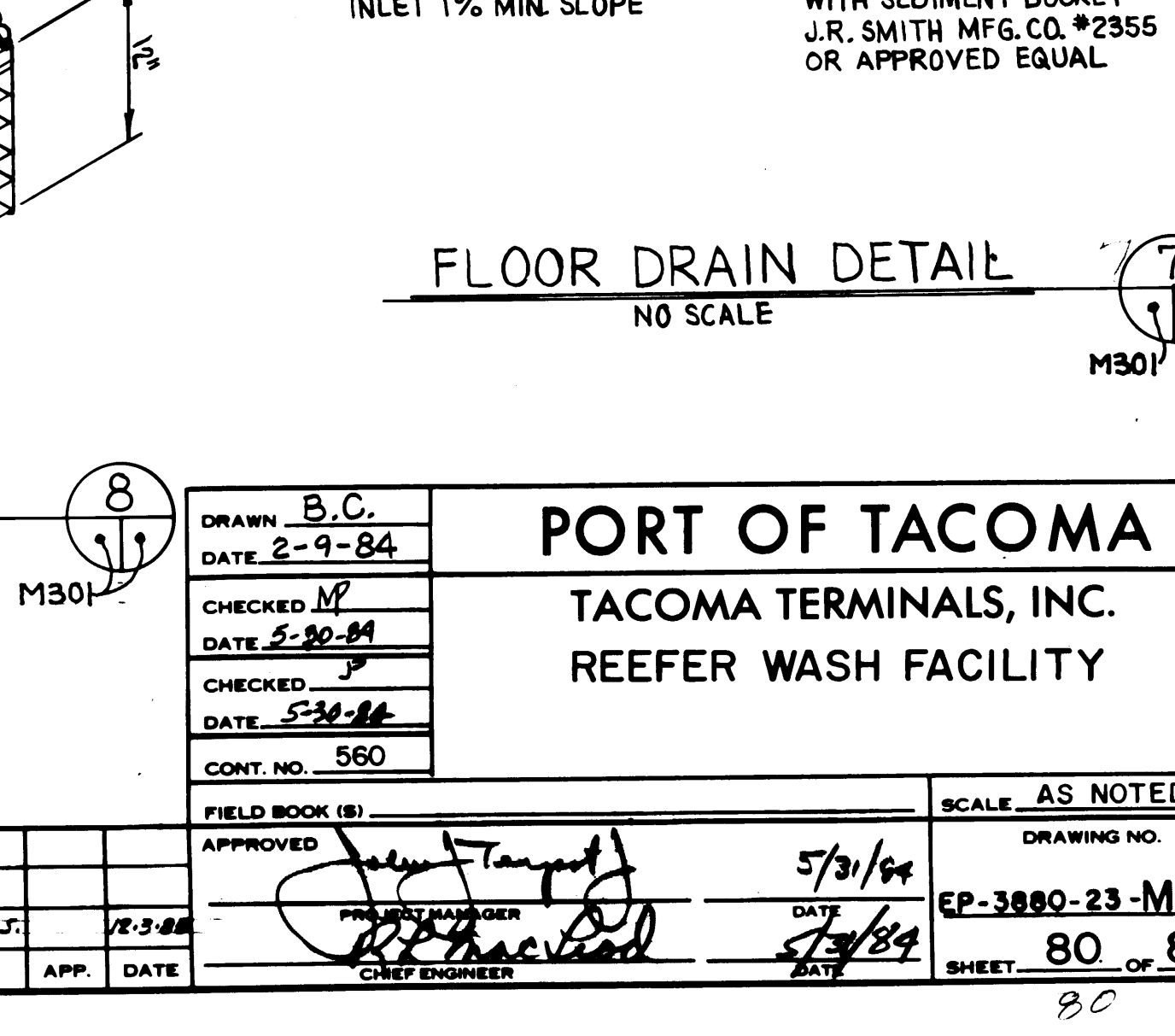
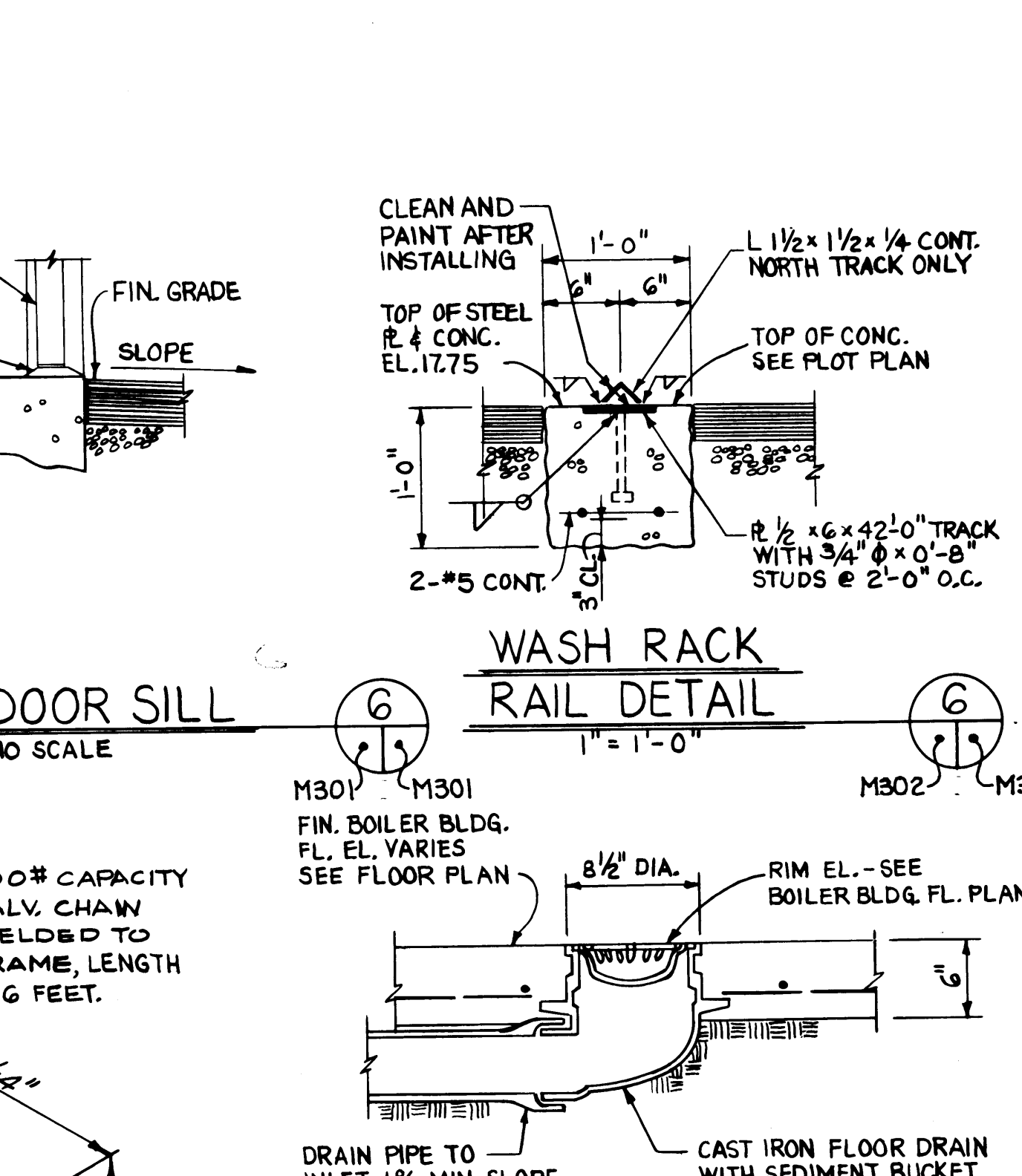
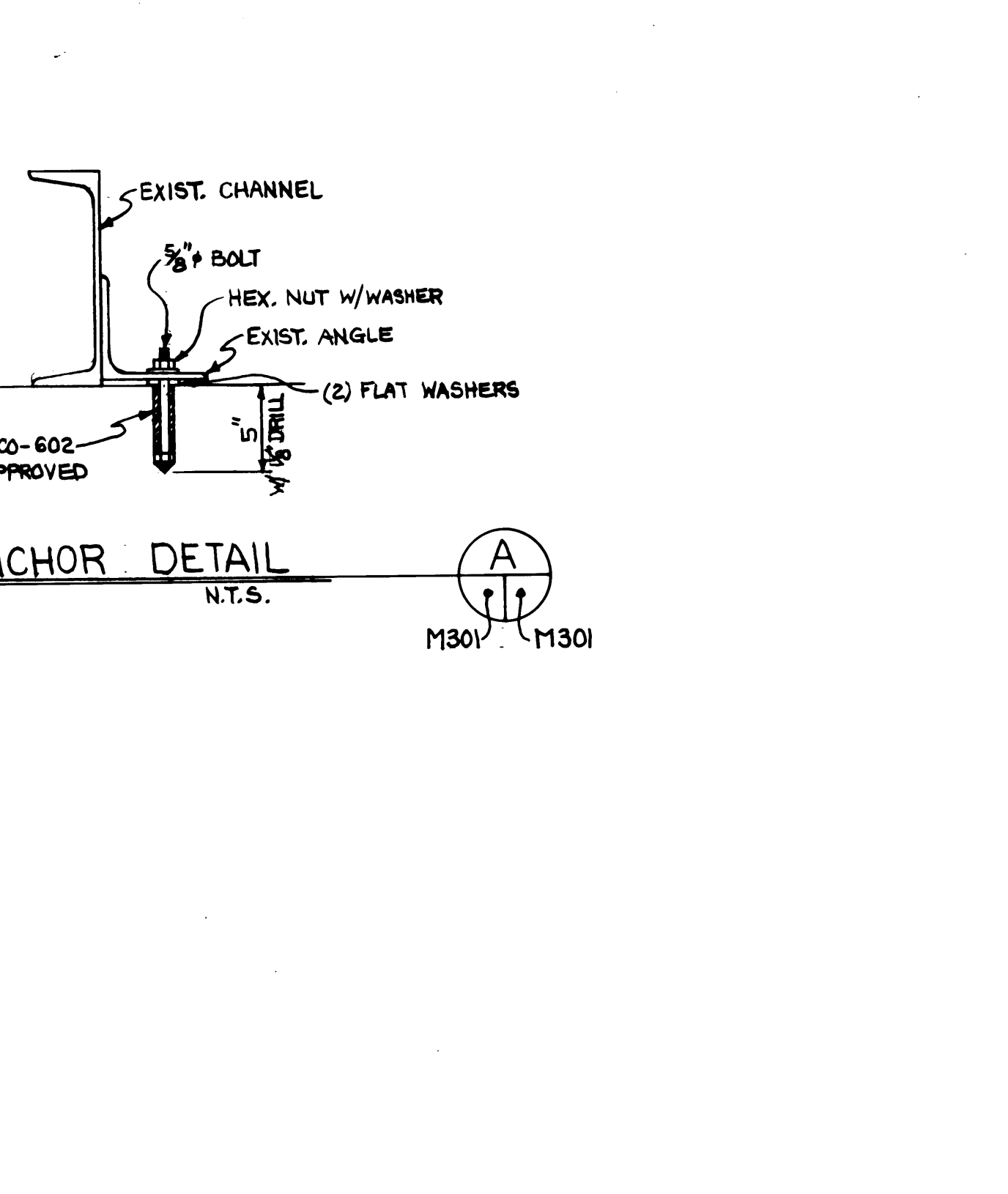
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DATE <u>2-9-84</u>		
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CONT. NO. <u>560</u>		
FIELD BOOK (S) _____		SCALE - <u>AS NOTED</u>
APPROVED <u>[Signature]</u>	DATE <u>5/31/84</u>	DRAWING NO.
PROJECT MANAGER <u>[Signature]</u>	DATE <u>7/6/84</u>	<u>EP-3880-23-M202</u>
CMSST ENGINEER _____	DATE _____	SHEET <u>78</u> OF <u>88</u>

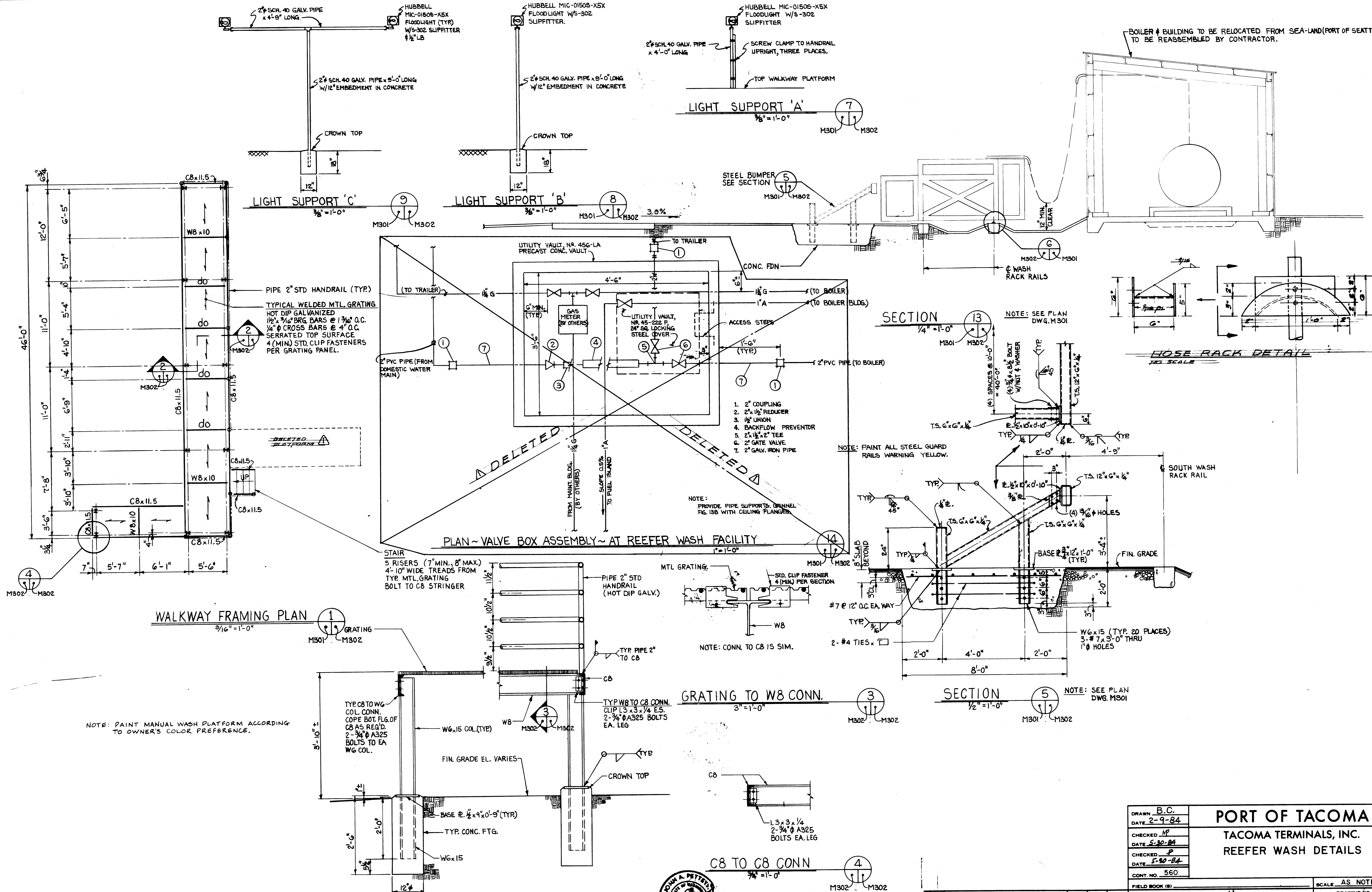
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DRAWN B.C.
DATE _____
CHECKED MP
DATE 9-30-84
CHECKED P
DATE 5-30-84
CONT NO. 560

PORT OF TACOMA
TACOMA TERMINALS, INC.
COVER FOR FUELING ISLAND

CONT. NO. _____		SCALE AS NOTED	
FIELD BOOK (S) _____		DRAWING NO. _____	
APPROVED <i>[Signature]</i>	DATE 5/31/69	EP-3880-23-M203	
PROJECT MANAGER <i>[Signature]</i>	DATE 5/31/69	SHEET 79 OF 88	
CHIEF ENGINEER _____	DATE _____		





NOTE: PAINT MANUAL WASH PLATFORM ACCORDING TO OWNER'S COLOR PREFERENCE.

NOTE: CONN. TO C8 IS SIM.

NOTE: PAINT ALL STEEL GUARD RAILS WARNING YELLOW.

NOTE: PROVIDE PIPE SUPPORTS, GRINNEL FIG. 158 WITH CEILING FLANGES.

DRAWN B.C.		PORT OF TACOMA	
DATE 2-9-84		TACOMA TERMINALS, INC.	
CHECKED MP		REEFER WASH DETAILS	
DATE 5-30-84			
CHECKED P			
DATE 5-30-84			
CONT. NO. 560			
FIELD BOOK (S)		SCALE AS NOTED	
APPROVED [Signature]		DRAWING NO.	
DATE 5/3/84		EP-3880-23-M302	
DATE 5/1/84		SHEET 81 OF 88	

Whitacre Engineers, Inc.
 Consulting Engineering & Land Planning
 2154 NO. 1ST STREET P.O. BOX 5877
 TACOMA, WASHINGTON 98406 (206) 272-2844



PORT OF TACOMA

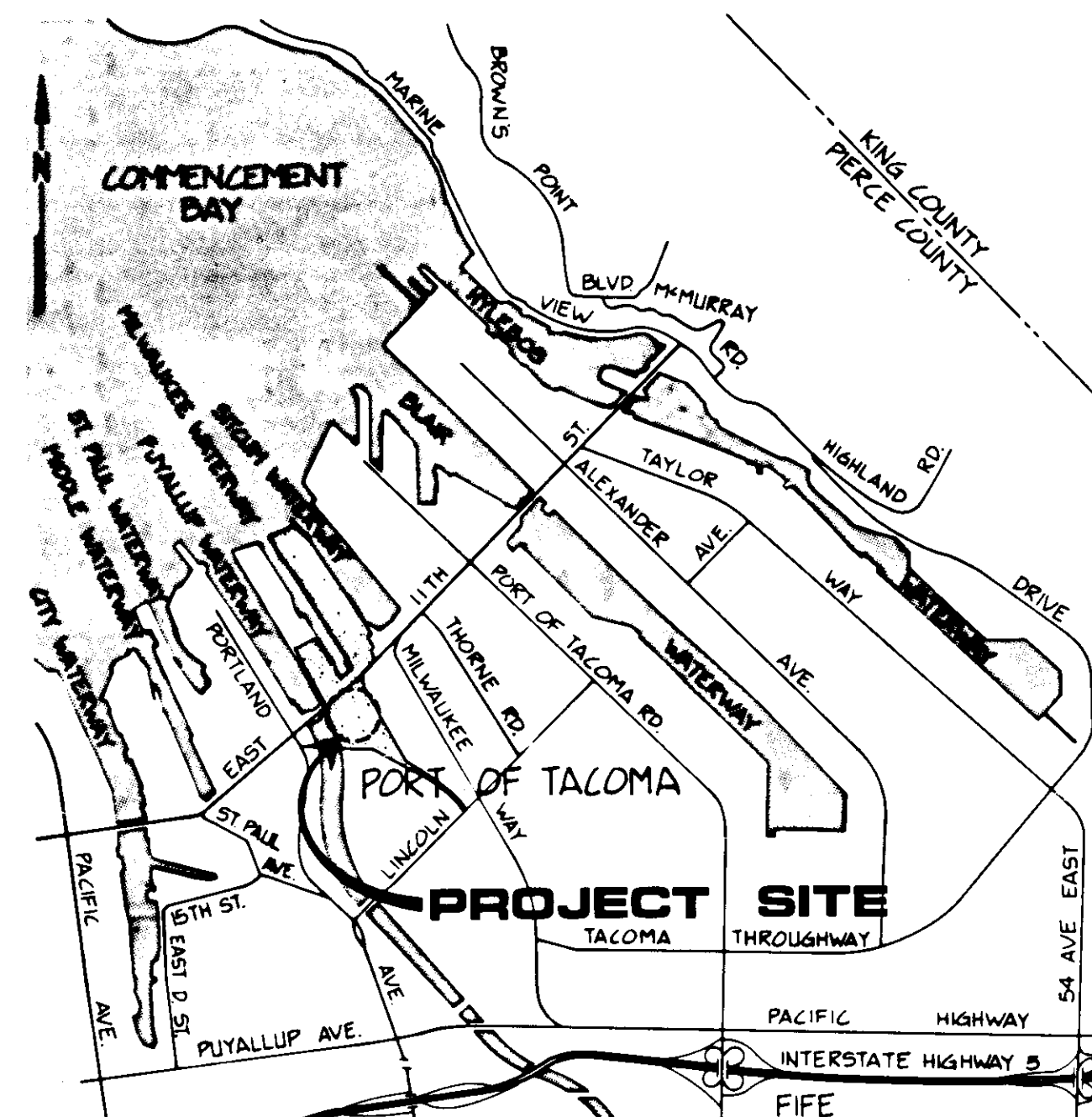
SITE FACILITIES FOR TACOMA TERMINALS INC. CONTAINER TERMINAL CONTRACT NO. 550

PORT COMMISSION:

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

PORT STAFF:

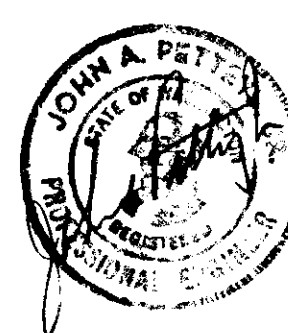
RICHARD DALE SMITH
EXECUTIVE DIRECTOR
JOHN J. TERPSTRA, P.E.
PROJECT MANAGER
ROBERT L. MACLEOD, P.E.
CHIEF ENGINEER



VICINITY MAP N.T.S.

CIVIL & ELECTRICAL CONSULTANTS:
WHITACRE ENGINEERS, INC.
2124 SOUTH "K" STREET
TACOMA, WASHINGTON

GEOTECHNICAL CONSULTANTS:
HART-CROWSEY & ASSOC., INC.
SEATTLE, WASHINGTON



Whitacre Engineers, Inc.
Consulting Engineering & Land Planning
2124 SO. "K" STREET P.O. BOX 5677
TACOMA, WASHINGTON 98405 (206) 272-5144



MARK	REVISION	BY	APP.	DATE
	ISSUE FOR CONSTRUCTION	J.T.P.	JP	4-5-84

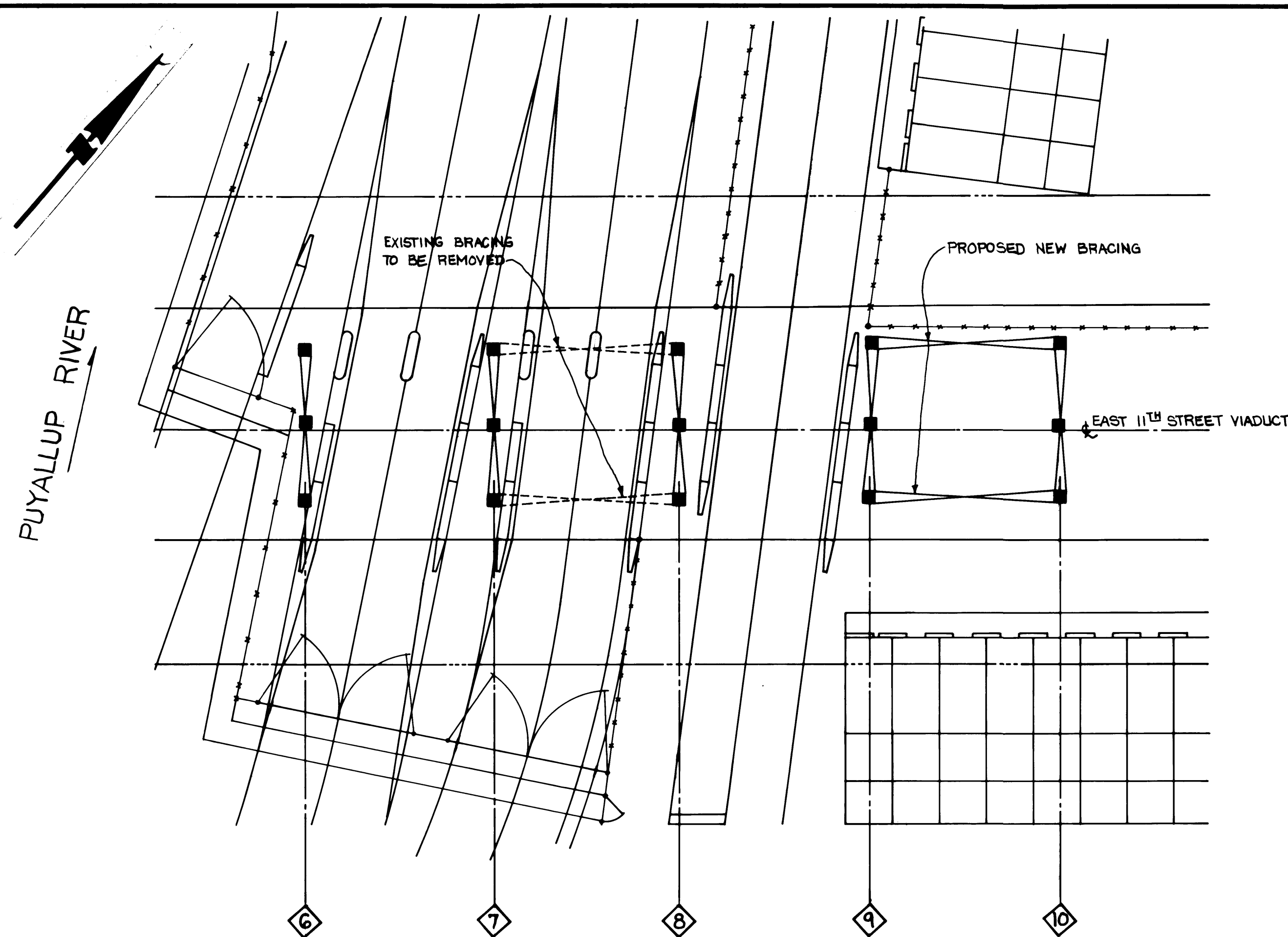
INDEX OF DRAWINGS:

DRAWING NO.	SHEET NO.	SHEET TITLE
EP-3865-23	1	Cover Sheet
EP-3865-23-G1	2	Site Plan & General Notes
EP-3865-23-C1	3	Plan
EP-3865-23-C2	4	Plan
EP-3865-23-C3	5	Plan
EP-3865-23-C4	6	Plan
EP-3865-23-C5	7	Plan
EP-3865-23-C6	8	Typical Sections
EP-3865-23-C7	9	Typical Sections & Details
EP-3863-23		Reference Drawing

DRAWN RHT DATE 12-27-83	PORT OF TACOMA	
CHECKED J.T.P. DATE 12-27-83	TACOMA TERMINALS, INC.	
CHECKED JP DATE 12/29/83	C.F.S. AREA EARTHWORK	
CONT. NO. 550	COVER SHEET	
FIELD BOOK (S)	SCALE	DRAWING NO.
APPROVED [Signature] PROJECT MANAGER [Signature] CHIEF ENGINEER	DATE 12/29/83 DATE 12/29/83	EP-3865-23
		SHEET 1 OF 9

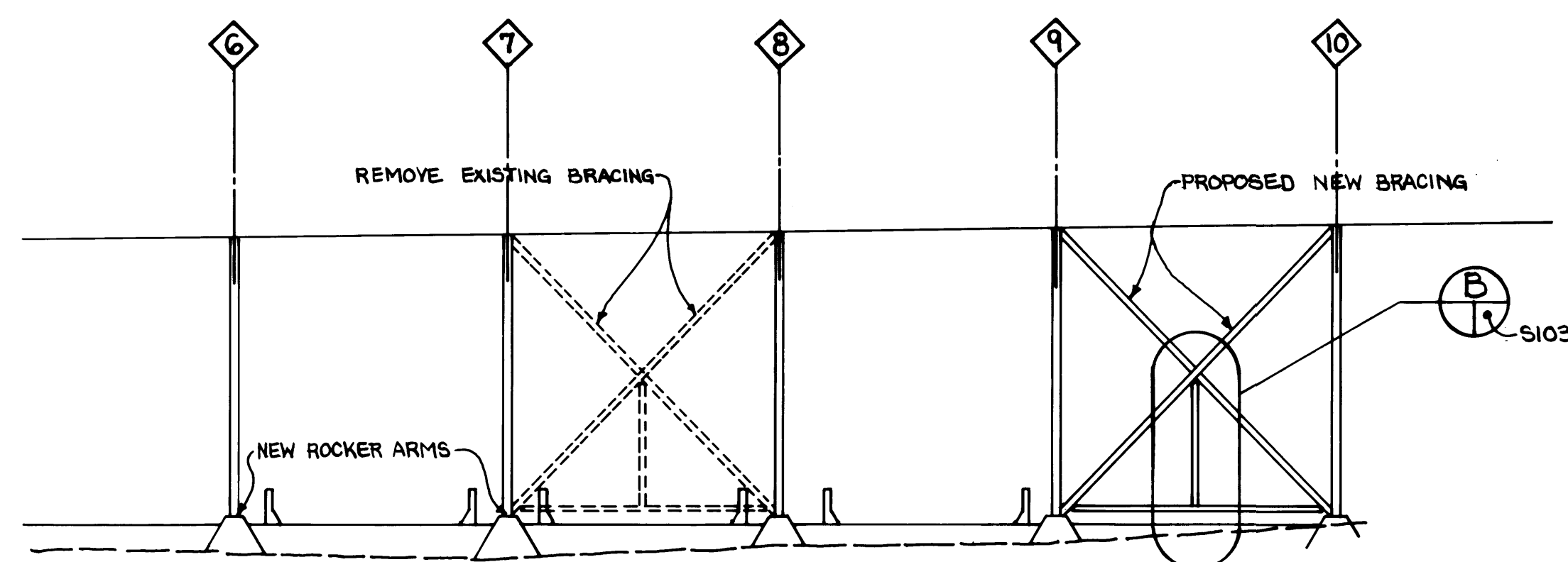
REFERENCE DRAWING EP-3880-23 SHEET REF1

ISSUED FOR CONSTRUCTION 4/5/84



PARTIAL PLAN ~ EAST 11TH STREET VIADUCT
1" = 20'

BENT NUMBERS REFER TO ORIGINAL DESIGN DRAWINGS. ONE SET OF THE ORIGINAL DESIGN DRAWINGS ARE AVAILABLE FOR CONTRACTOR REFERENCE AT FORT OF TACOMA OFFICES AT ONE SITCUM PLAZA - TACOMA, WA.



PARTIAL ELEVATION ~ EAST 11TH STREET VIADUCT
HORIZ. 1" = 20'
VERT. 1" = 5'

GENERAL NOTES:

1. All methods and materials shall conform to Uniform Building Code 1979 edition except as more specifically covered in detail by A.C.I. 308-72 (revised 1975) "Specifications for Structural Concrete for Buildings", the "Manual of Steel Construction" eighth edition - A.I.S.C., the "Structural Welding Code" 1981 edition, the "Standard Specification for Road and Bridge Construction" 1988 edition by Washington State Highway Commission.

2. All dimensions and details shall be verified by the Contractor prior to fabrication and/or construction.

3. The Contractor shall be responsible for providing sufficient temporary shoring to hold structure plumb and rigid against loads during construction.

4. Procedure Sequence:

A. Install new longitudinal brace between bents 9 and 10. See drawings.

1. Remove lateral brace from north and south columns bent 9 and 10.
2. Remove hold down angles bent 10.
3. Install new top column gusset bents 9 and 10 using 7/8" diameter high strength bolts.
4. Install new lower gusset plates bent 10 and weld new gusset plate extension to existing gusset plates bent 9.
5. Reinstall new hold down angles bent 10 and bolt lateral braces to columns with 7/8" diameter high strength bolts.
6. Weld in new bearing plates each side of rockers.

B. Remove as necessary the bracing gusset from bent 9.

C. Install new rockers at bent 6 and 7.

- 1a. Block center columns in bents 6 and 7 under main girders to support approximately 150 kips (dead load plus restricted live load). Note: only two outside lanes will be carrying traffic.
- 1b. Remove lateral bracing connections from center cols. bent 6 and 7.
- 1c. Cut center columns in bent 6 and 7 and remove lower section.
- 1d. Cut top of center concrete piers bent 6 and 7.
- 1e. Install new base plate, grout and anchor with 4 drilled and grouted anchors.
- 1f. Weld new rocker to base plate.
- 1g. Bolt existing base plate to new guide plate for rocker.
- 1h. Replace lower column section and connect to top section with new splice plates and 7/8" diameter high strength bolts.
- 1i. Reinstall lateral braces with 7/8" diameter high strength bolts.
- 1j. Remove column supports.
- 2a. Block the south columns in bents 6 and 7 under main girders to support approximately 100 kips (dead load and restricted live load).
- 2b. Remove lateral bracing connections from south columns bent 6 and 7.
- 2c. Cut south columns in bent 6 and 7 and remove lower section.
- 2d. Cut top of south concrete piers bent 6 and 7.
- 2e. Install new base plate, grout and anchor with 4 drilled and grouted anchors.
- 2f. Weld new rocker to base plate.
- 2g. Bolt existing base plate to new guide plate for rocker.
- 2h. Replace lower column section and connect to top section with new splice plates and 7/8" diameter high strength bolts.
- 2i. Reinstall lateral braces with 7/8" diameter high strength bolts.
- 2j. Remove column supports.
- 3a. Block the north columns in bents 6 and 7 under main girder to support approximately 100 kips (dead load and restricted live load).
- 3b. Remove lateral bracing connections from north columns bent 6 and 7.
- 3c. Cut south columns in bent 6 and 7 and remove lower section.

3d. Cut top of south concrete piers bent 6 and 7.

3e. Install new base plate, grout and anchor with 4 drilled and grouted anchors.

3f. Weld new rocker to base plate.

3g. Bolt existing base plate to new guide plate for rocker.

3h. Replace lower column section and connect to top section with new splice plates and 7/8" diameter high strength bolts.

3i. Reinstall lateral braces with 7/8" diameter high strength bolts.

3j. Remove column supports.

4. All new steel work shall receive 3 coats of paint per Section 6-87 of State of Washington Standard Specifications for Road and Bridge Construction latest edition. Color to match existing bridge.

5. The following data must be observed with reference to restricted traffic.

a. One lane each way:

1. Daily
8:30 a.m. to 3:30 p.m.
5:30 p.m. to 6:00 a.m.

2. Weekends 5:30 p.m. Friday
to 6:00 a.m. Monday

b. Fully open daily
6:00 a.m. to 8:30 p.m.
3:30 p.m. to 5:30 p.m.

6. Maintenance of Traffic: The provisions of the Standard Specifications for Road and Bridge Construction pertaining to the maintaining and safeguarding of traffic shall remain in all respects, together with the following Special Provisions:

A. The Contractor shall be responsible for all necessary detour signs and cones, and shall provide and place flashers and barricades within the project area and shall coordinate with the City Traffic Engineer all matters pertaining to the movement of vehicular and pedestrian traffic past the project area. In addition, the City Traffic Engineer shall be notified a minimum of three (3) City-of-Tacoma working days in advance of the date and time that implementation is to be made for all detours, closures, and other activities involving the disruption of travel of pedestrian or vehicular traffic.

The posting of flagmen, advance warning signs, barricades, traffic cones, flashers etc. shall conform to the standards established in the latest edition of "Manual on Uniform Traffic Control Devices" published by the U.S. Department of Transportation.



Whitacre Engineers, Inc.
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TACOMA, WASHINGTON 98402 (206) 270-2444

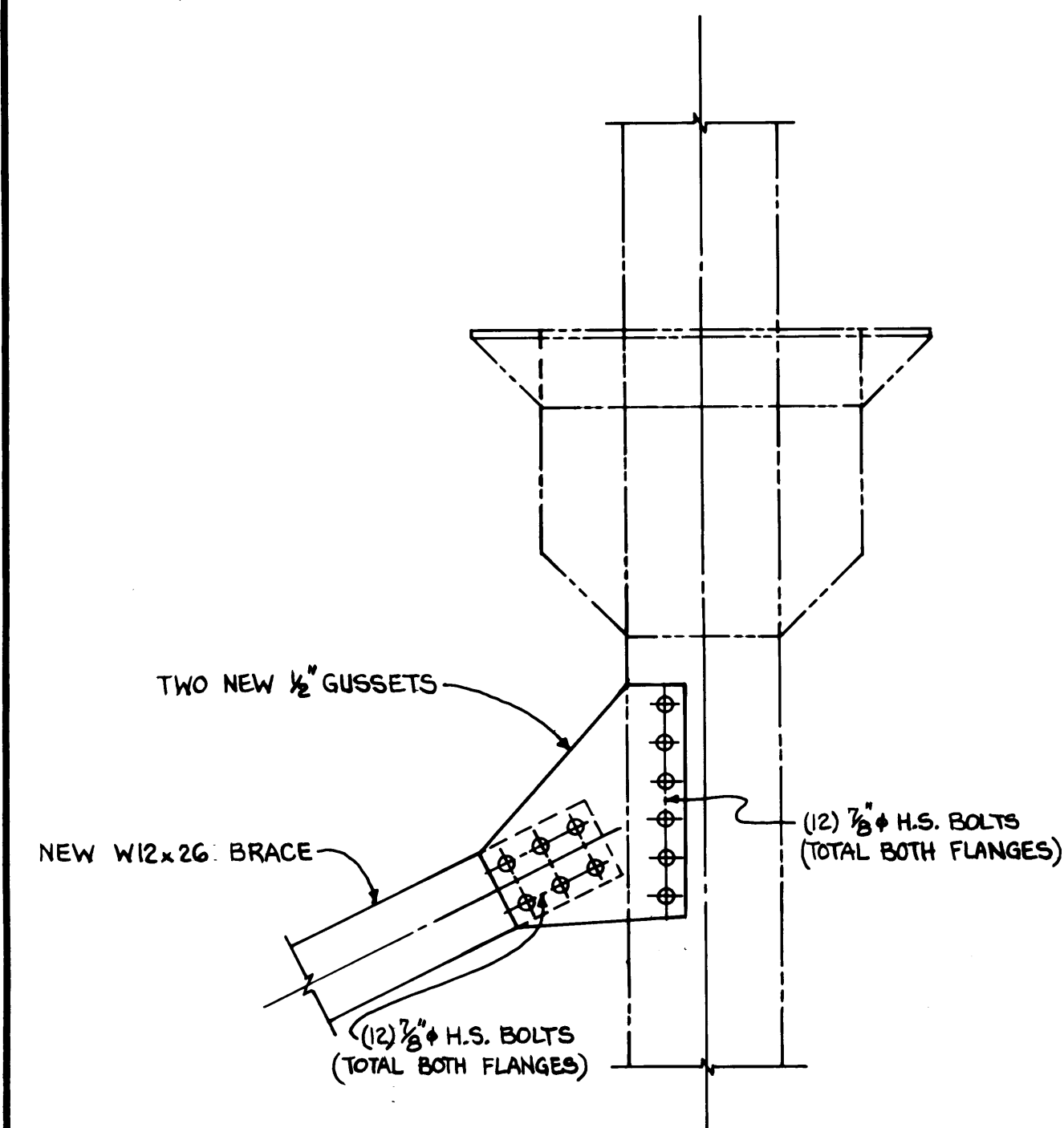


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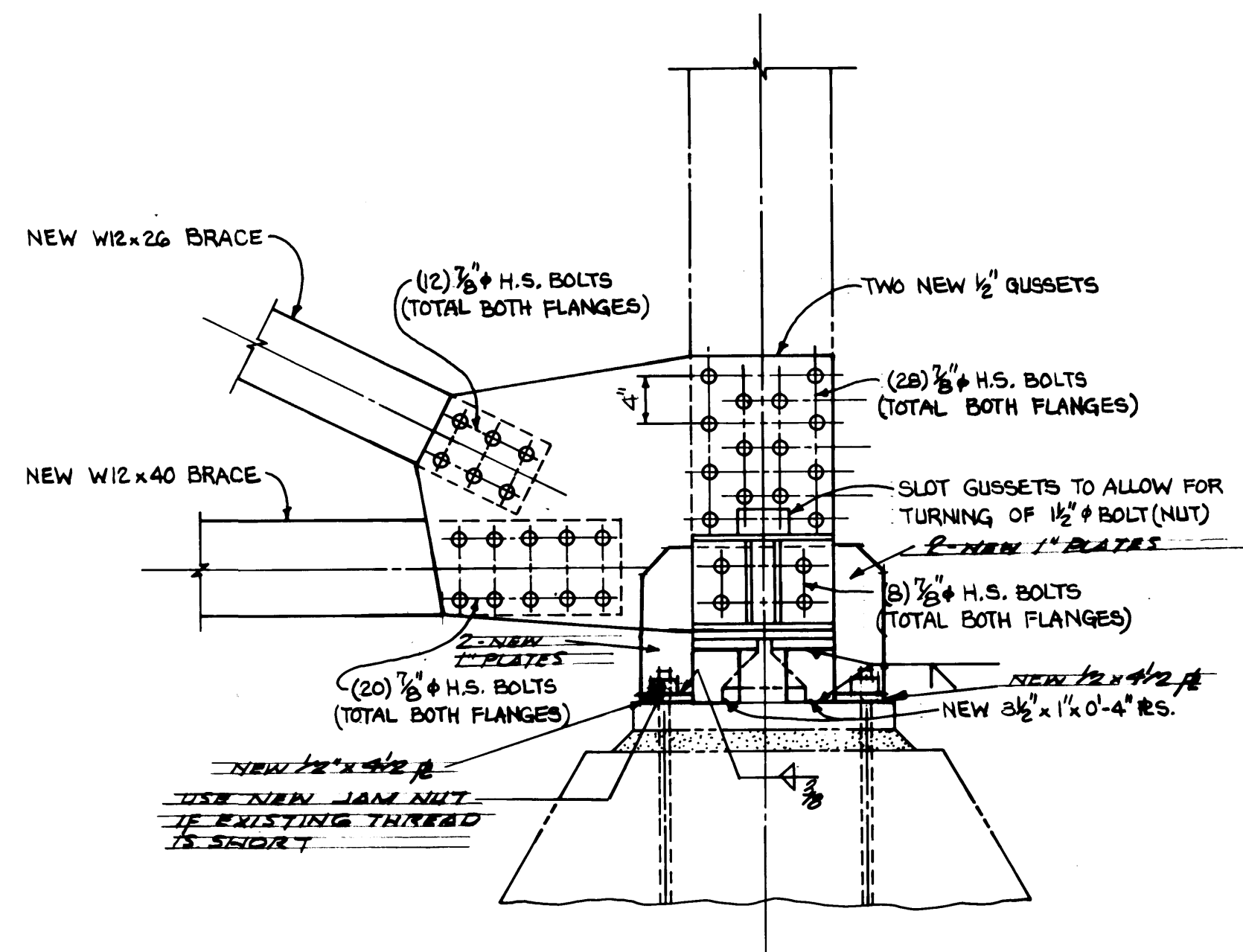
DRAWN B.C.
DATE 5-30-84
CHECKED ALP
DATE 5-30-84
CHECKED P
DATE 5-30-84
CONT. NO. 560

PORT OF TACOMA
TACOMA TERMINALS, INC.
EAST 11th STREET
VIADUCT MODIFICATIONS
PARTIAL PLAN & NOTES

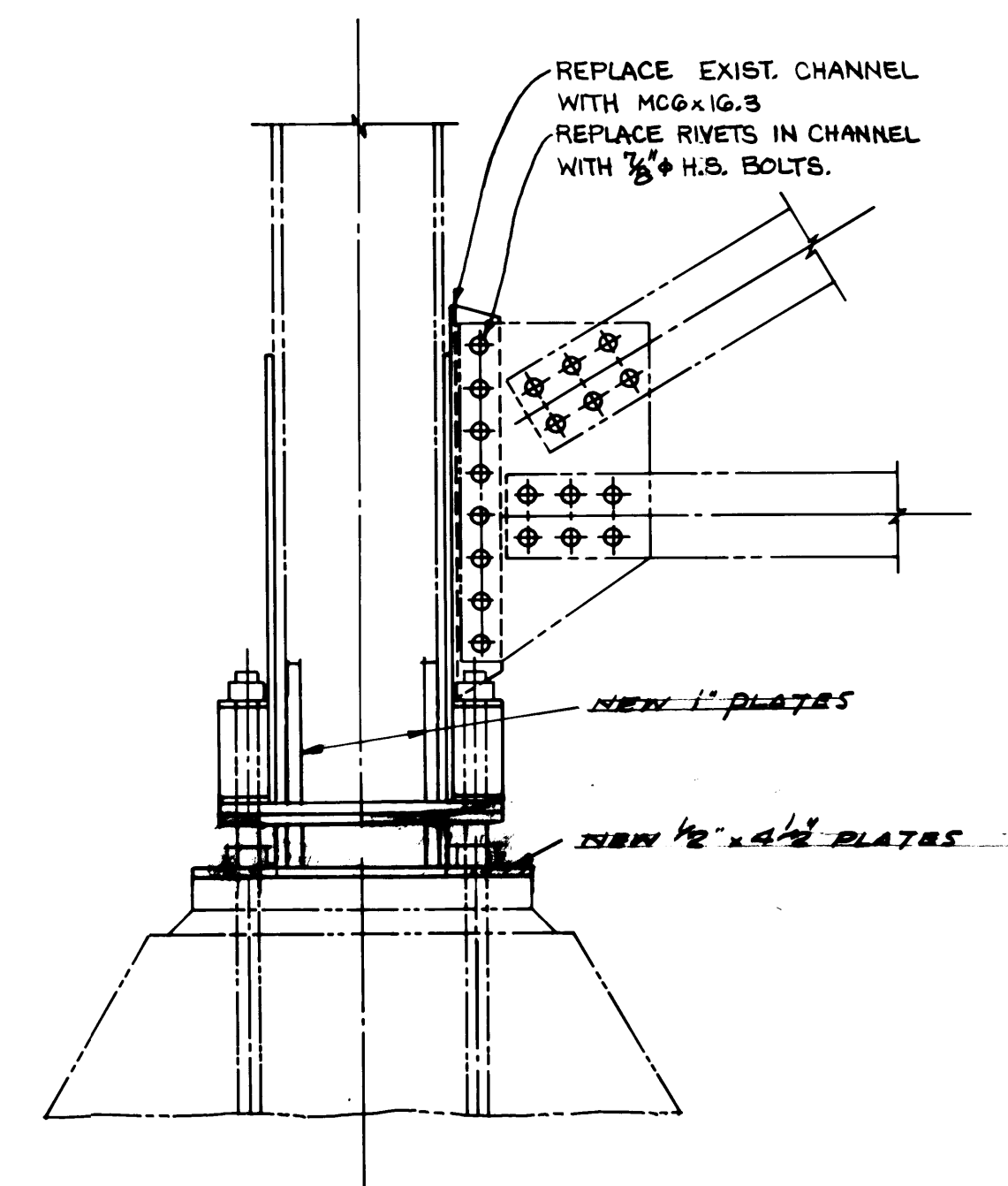
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CHECKED <u>[Signature]</u>	DATE <u>5/31/84</u>	SHEET <u>82</u> OF <u>88</u>
CHEF ENGINEER	DATE	



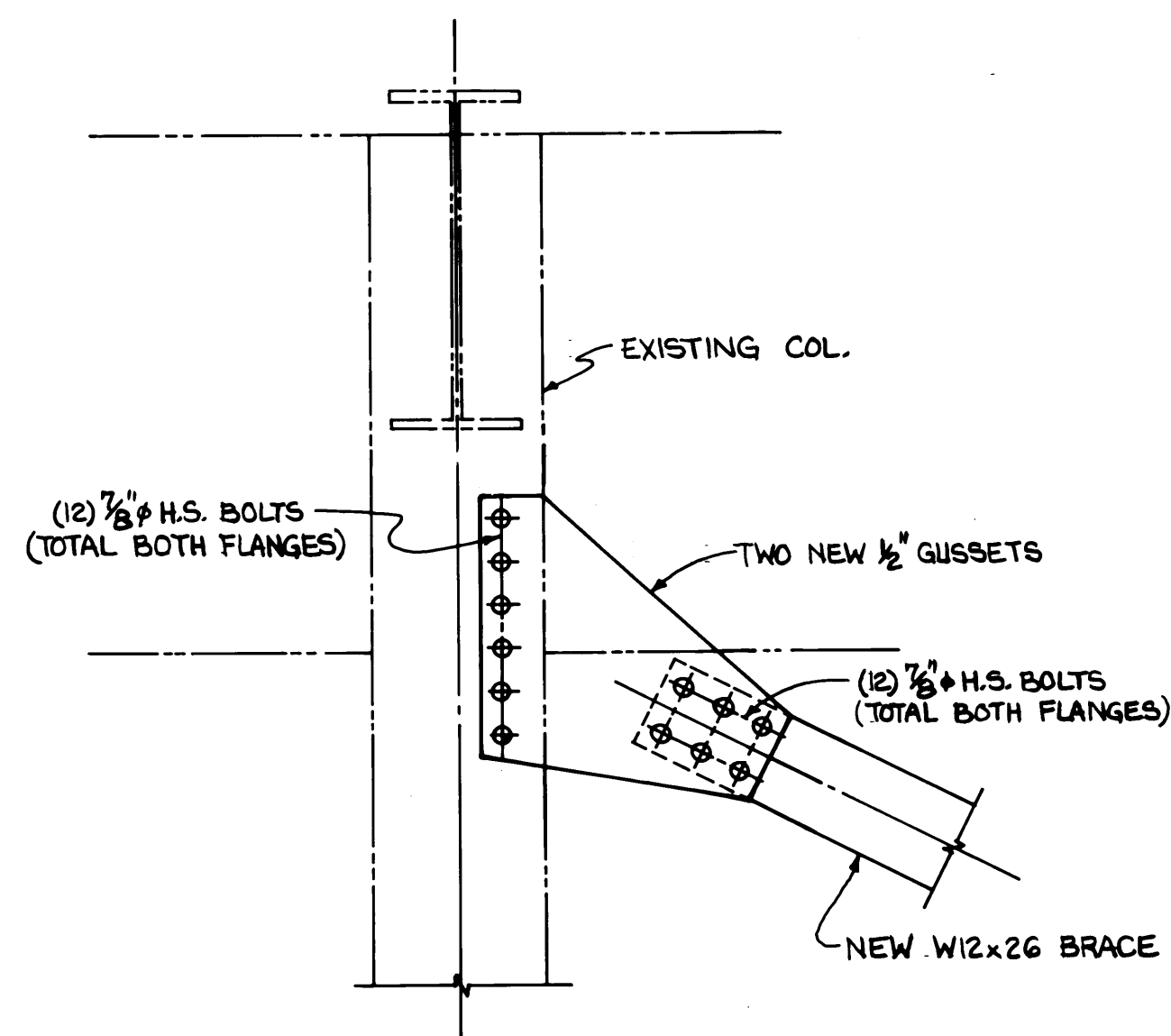
COL. LINE 10
SOUTH COL.~TOP
NORTH COL.~TOP OPP. HAND



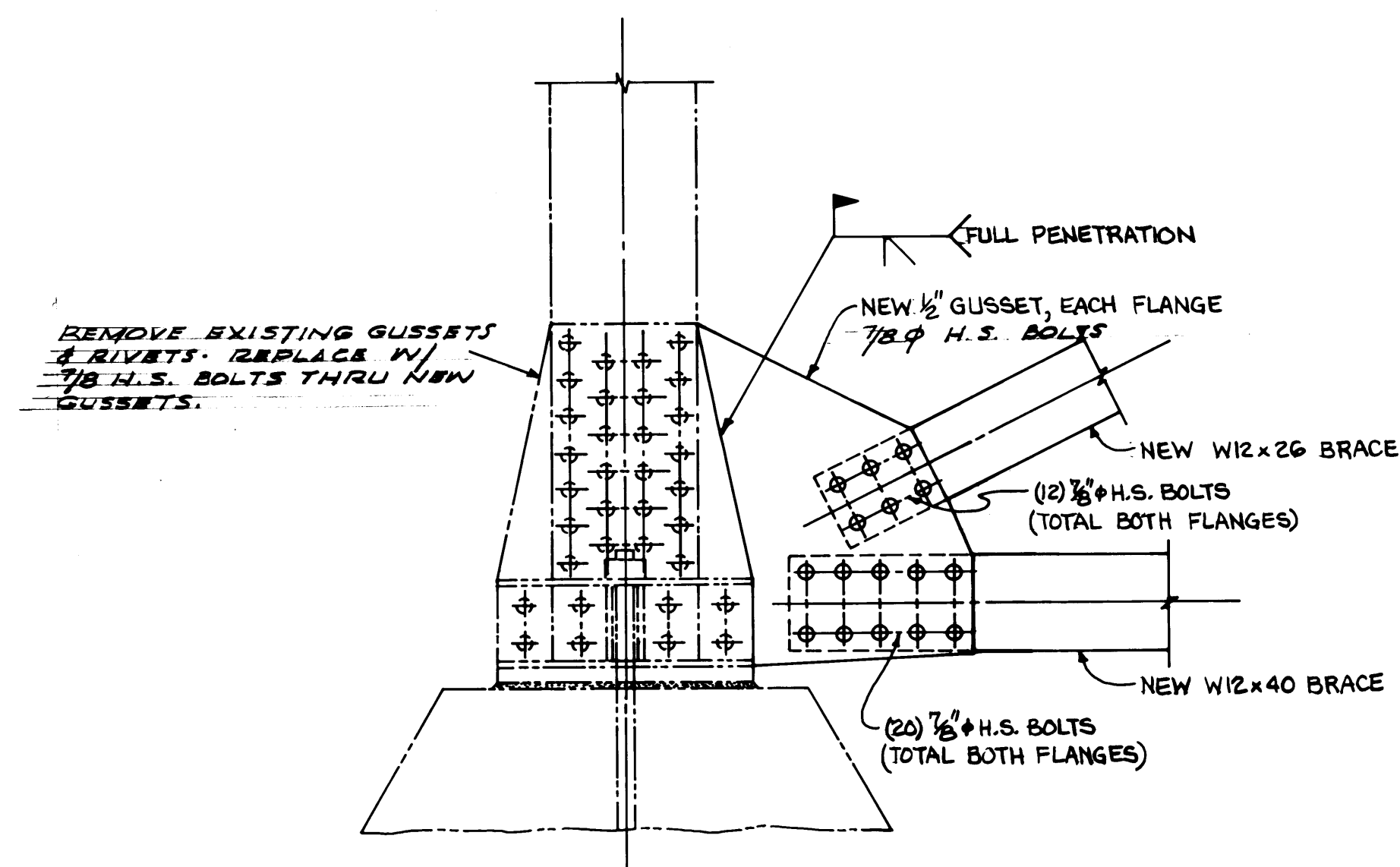
COL. LINE 10
SOUTH COL.~BOTTOM
NORTH COL.~BOTTOM OPP. HAND



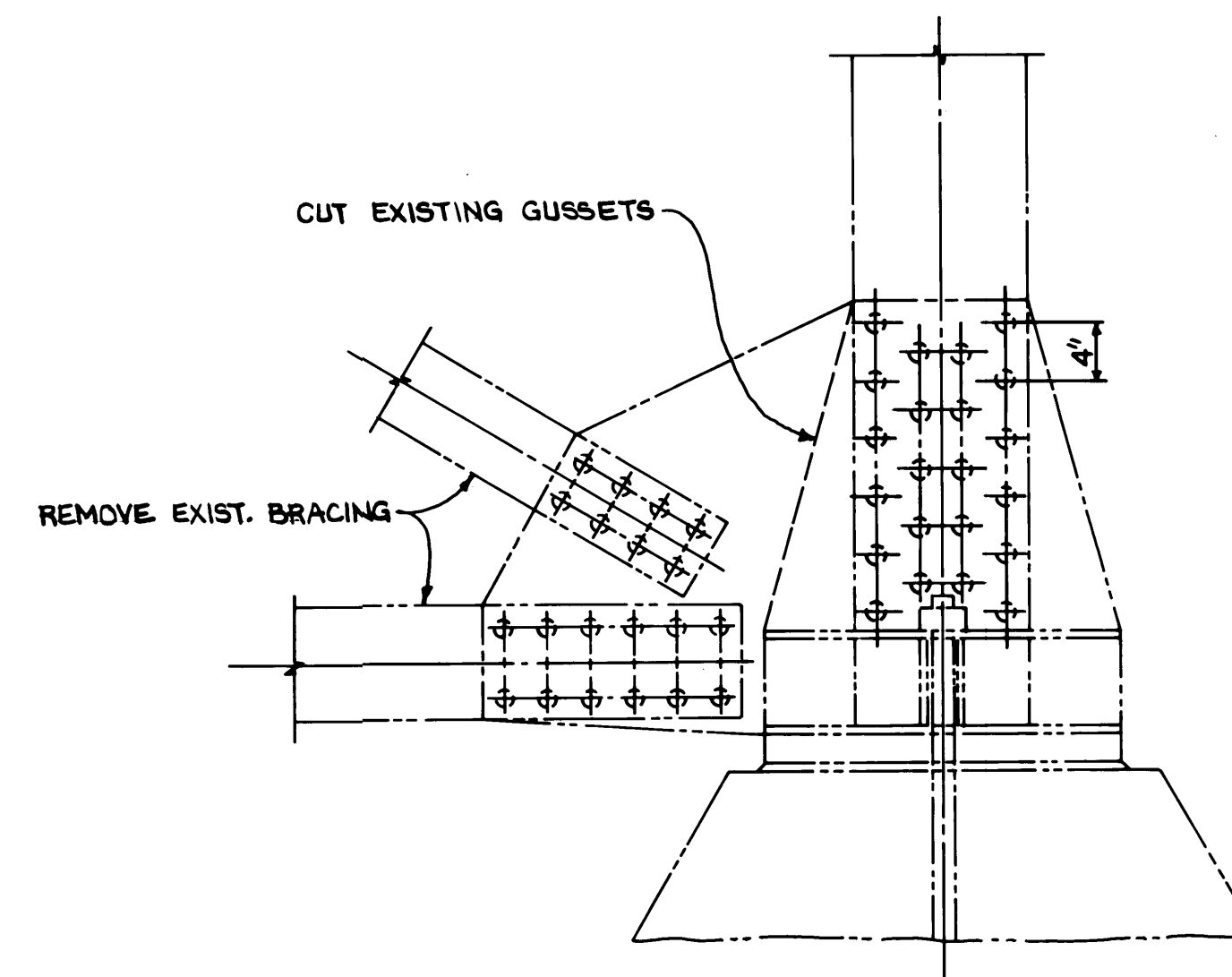
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SOUTH COL.~EAST VIEW
NORTH COL.~EAST VIEW OPP. HAND



COL. LINE 9
SOUTH COL.~TOP
NORTH COL.~TOP OPP. HAND



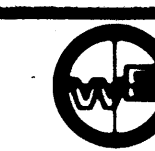
COL. LINE 9
SOUTH COL.~BOTTOM
NORTH COL.~BOTTOM OPP. HAND



COL. LINE 8
SOUTH COL.~BOTTOM
NORTH COL.~BOTTOM OPP. HAND



Whitacre Engineers, Inc.
Consulting Engineering & Land Planning
224 E. 11th STREET, P.O. BOX 1077
TACOMA, WASHINGTON 98402 253-272-9444



MARK	REVISION	BY	APP.	DATE
	REVISED TO AS-BUILT	A.J.S.		5/31/84

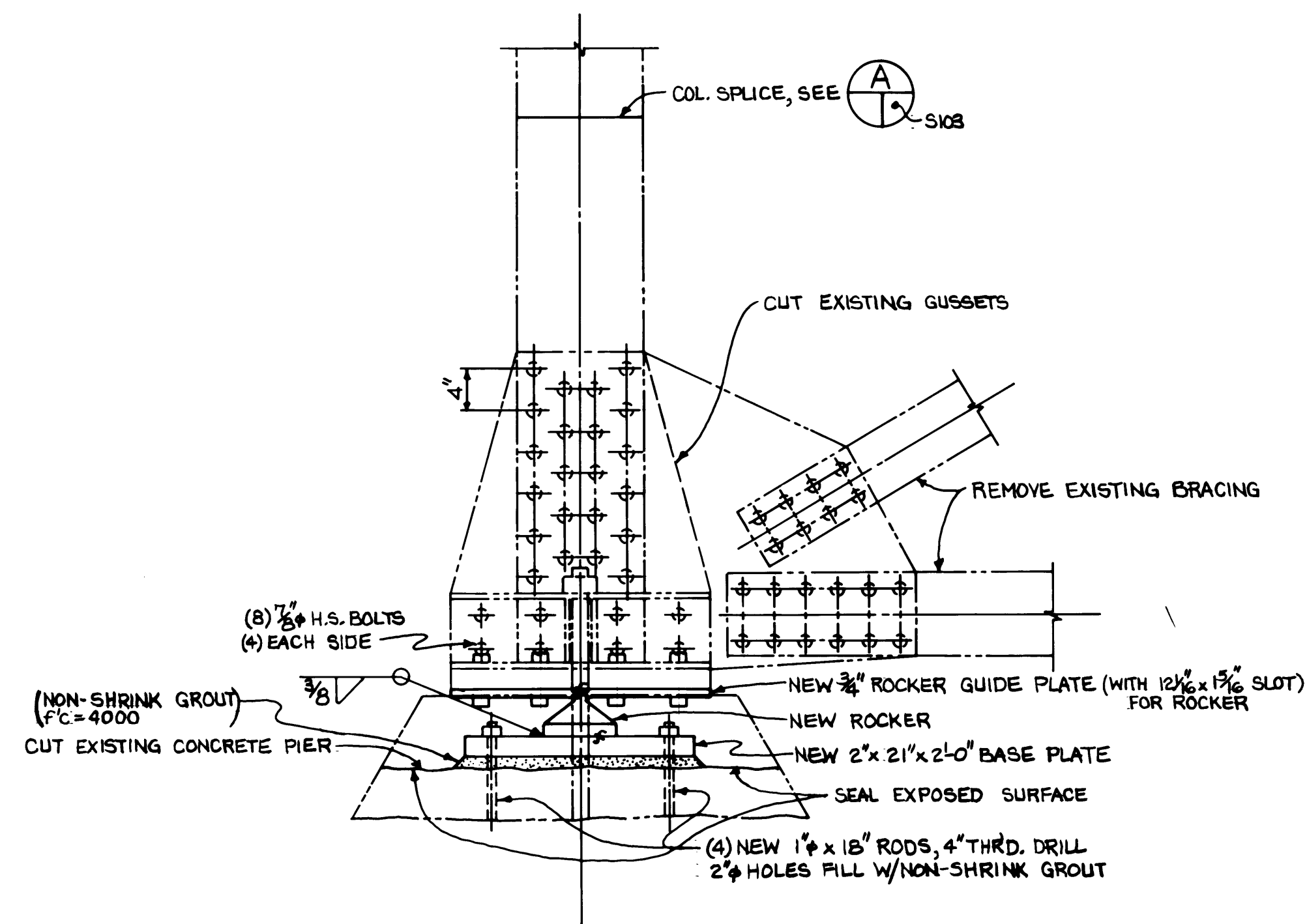
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DATE 5-30-84
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DATE 5-30-84
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DATE 5-30-84
CONT. NO. 560

PORT OF TACOMA

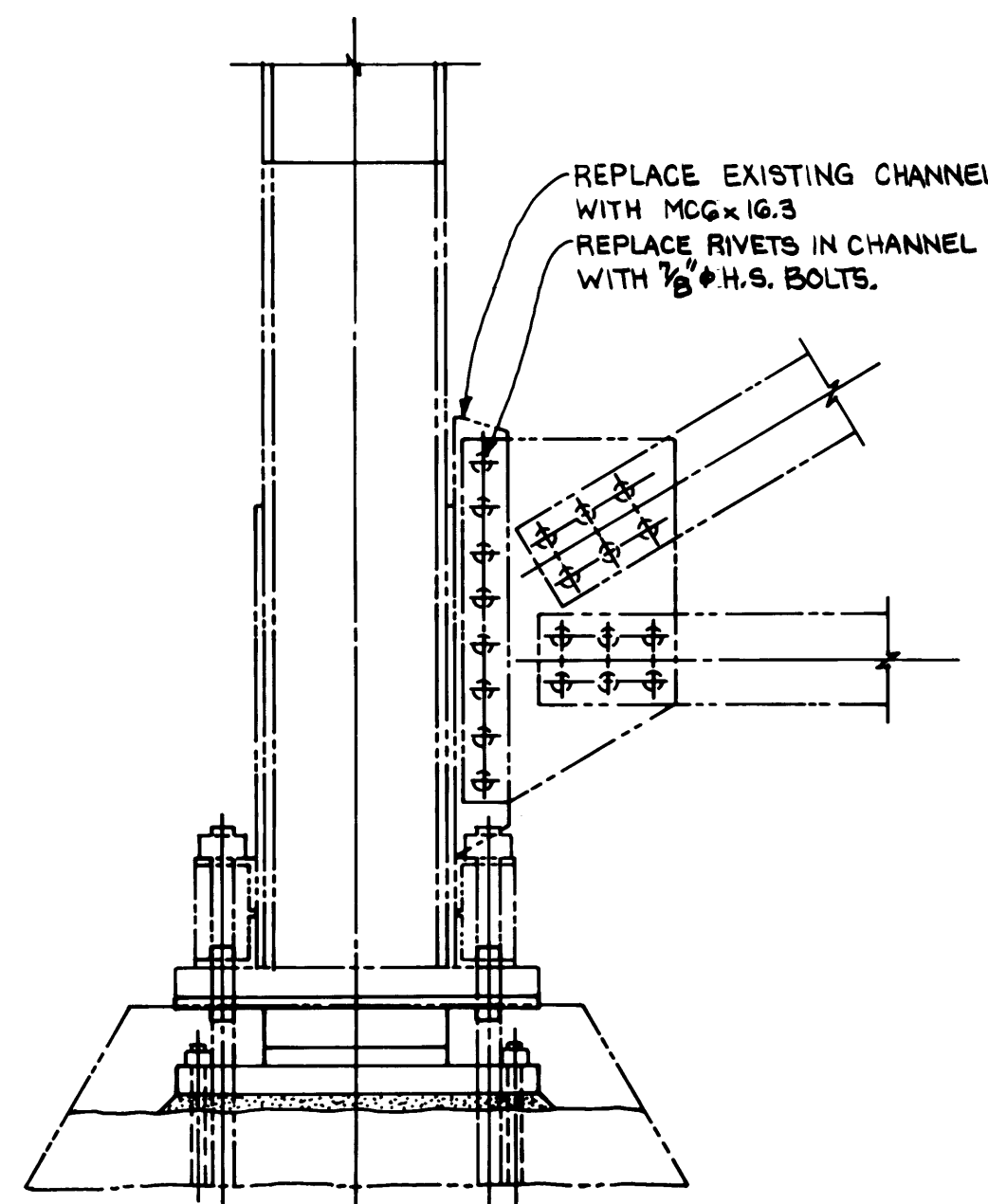
TACOMA TERMINALS, INC.
EAST 11th STREET
VIADUCT MODIFICATIONS
COLUMN BENTS 8-9-10

APPROVED [Signature]
DATE 5/31/84
PROJECT MANAGER [Signature]
DATE 5/31/84
CHECK ENGINEER [Signature]

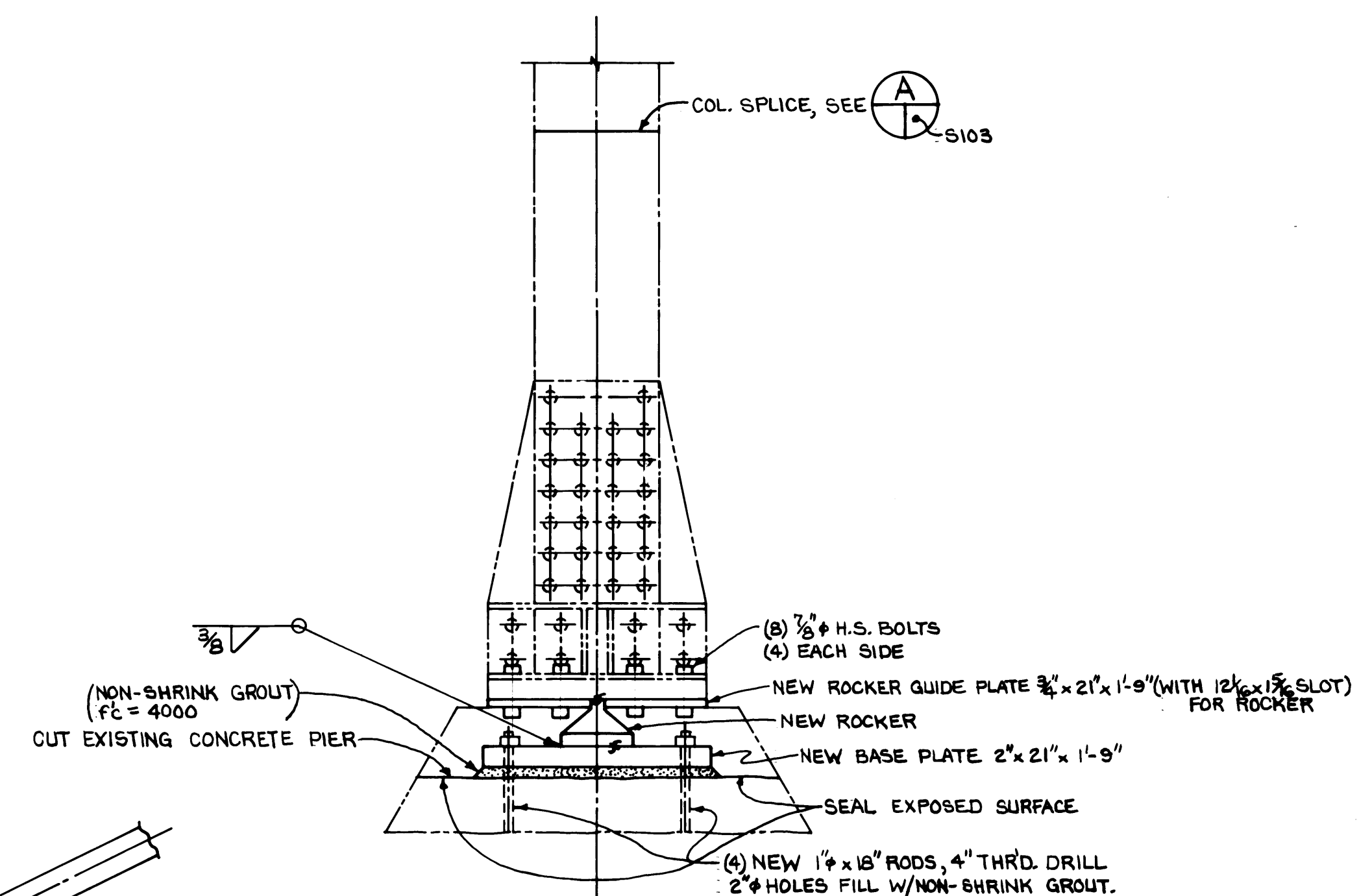
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SCALE 1" = 1'-0"
DRAWING NO. EP-3880-23-S102
SHEET 83 OF 88



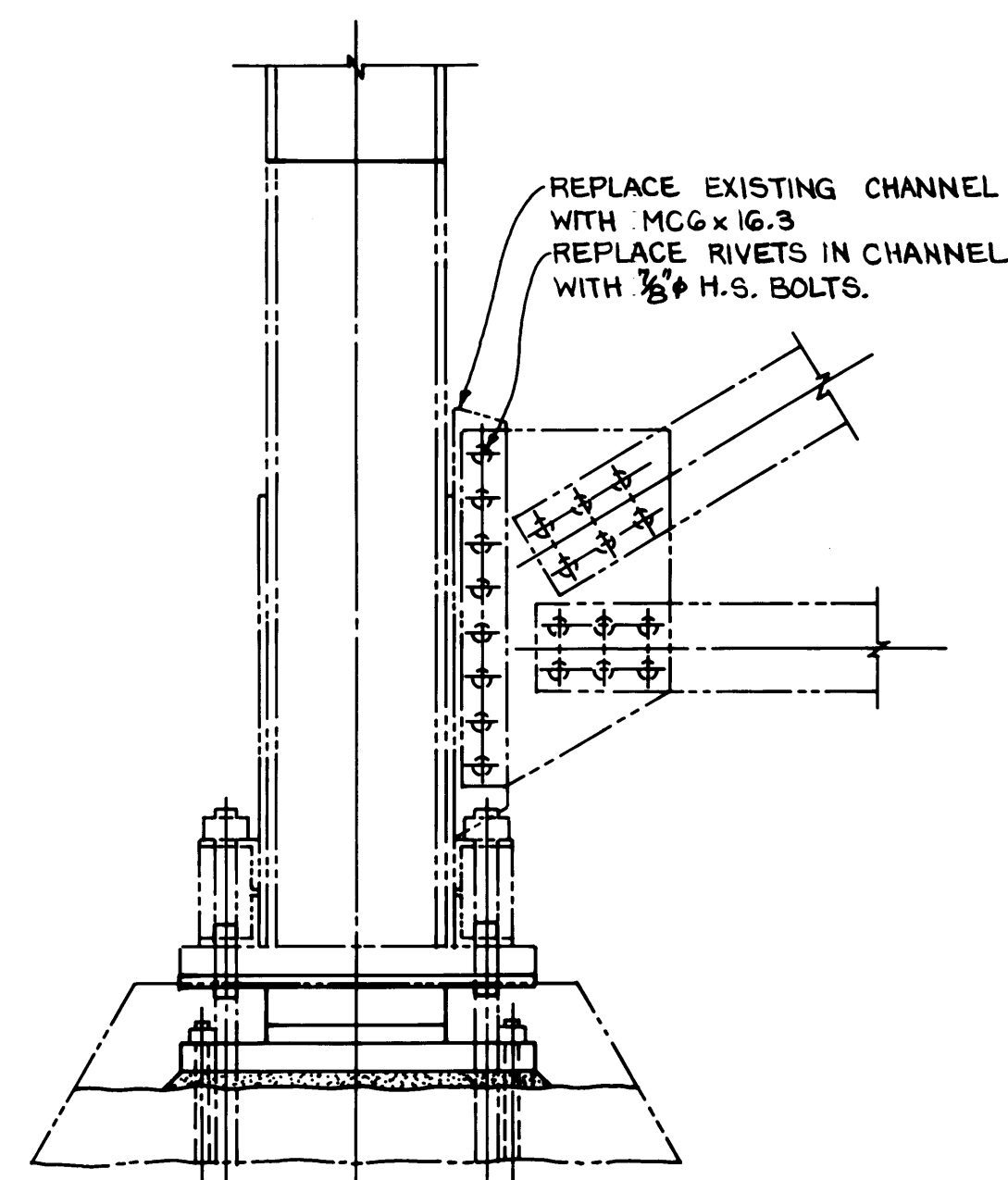
COL. LINE 7
SOUTH COL.~ SOUTH VIEW
NORTH COL.~ NORTH VIEW OPP. HAND



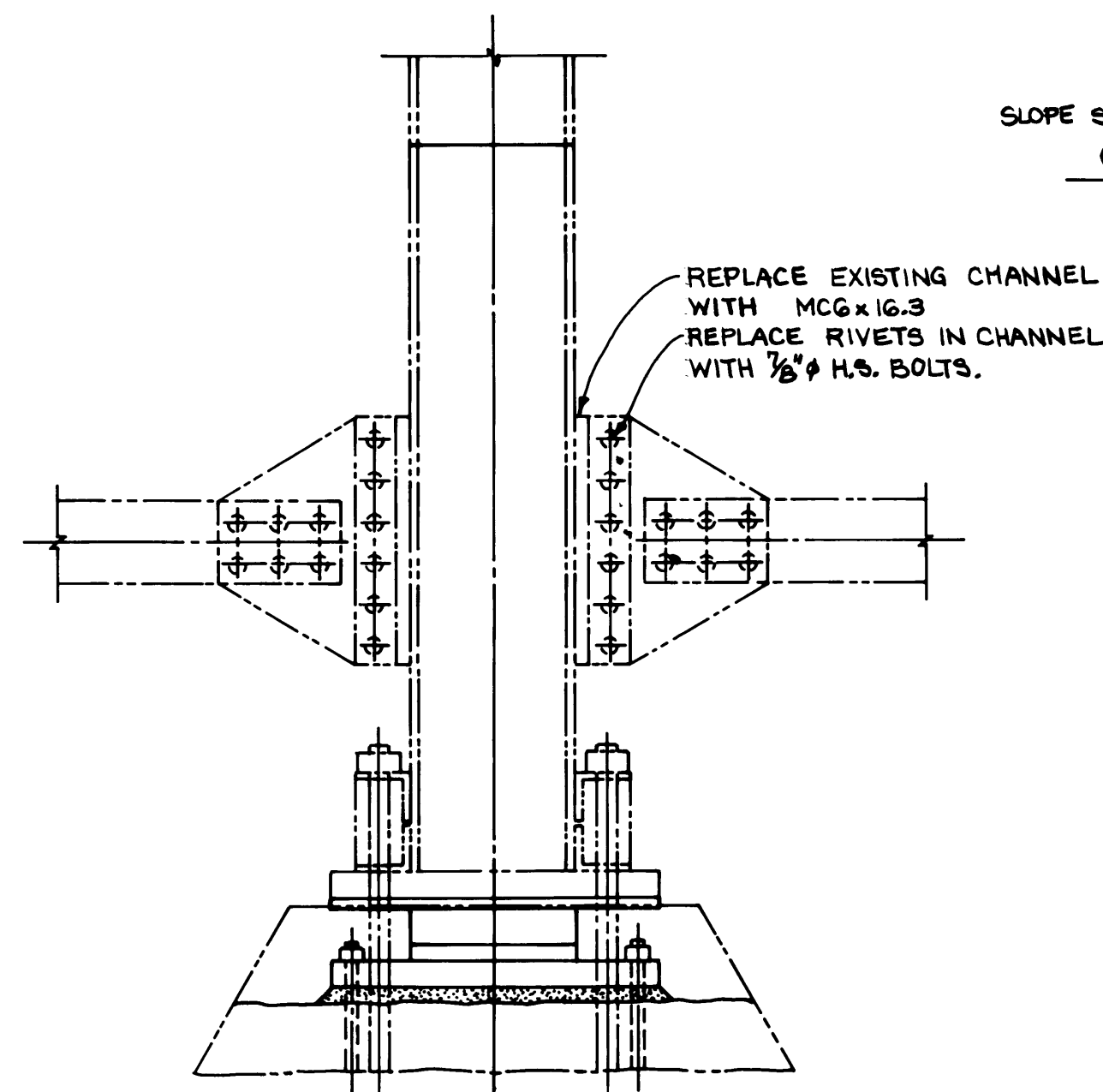
COL. LINE 7
SOUTH COL.~ EAST VIEW
NORTH COL.~ EAST VIEW OPP. HAND



COL. LINE 6
SOUTH COL.~ SOUTH VIEW
NORTH COL.~ NORTH VIEW

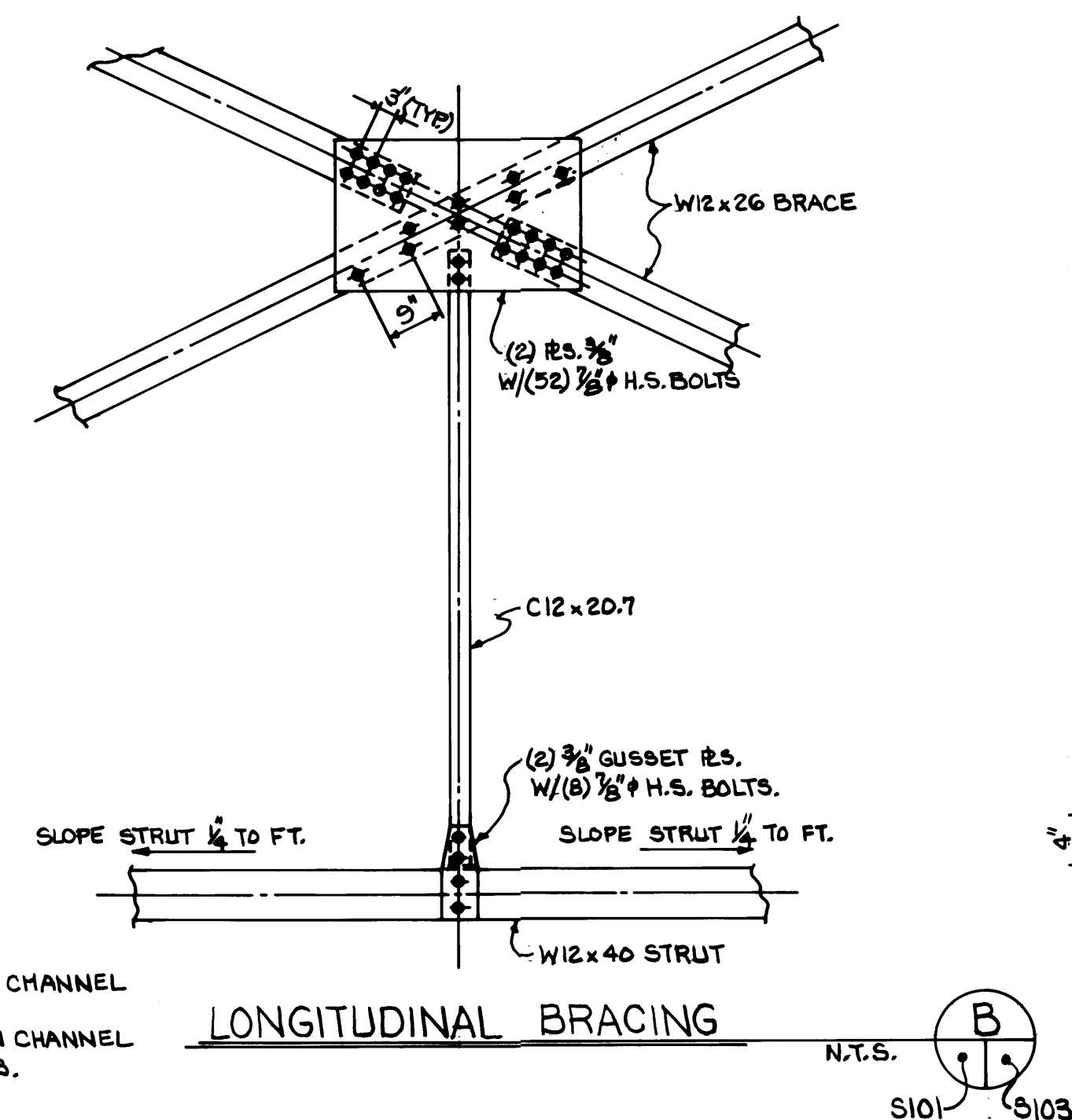


COL. LINE 6
SOUTH COL.~ EAST VIEW
NORTH COL.~ EAST VIEW OPP. HAND



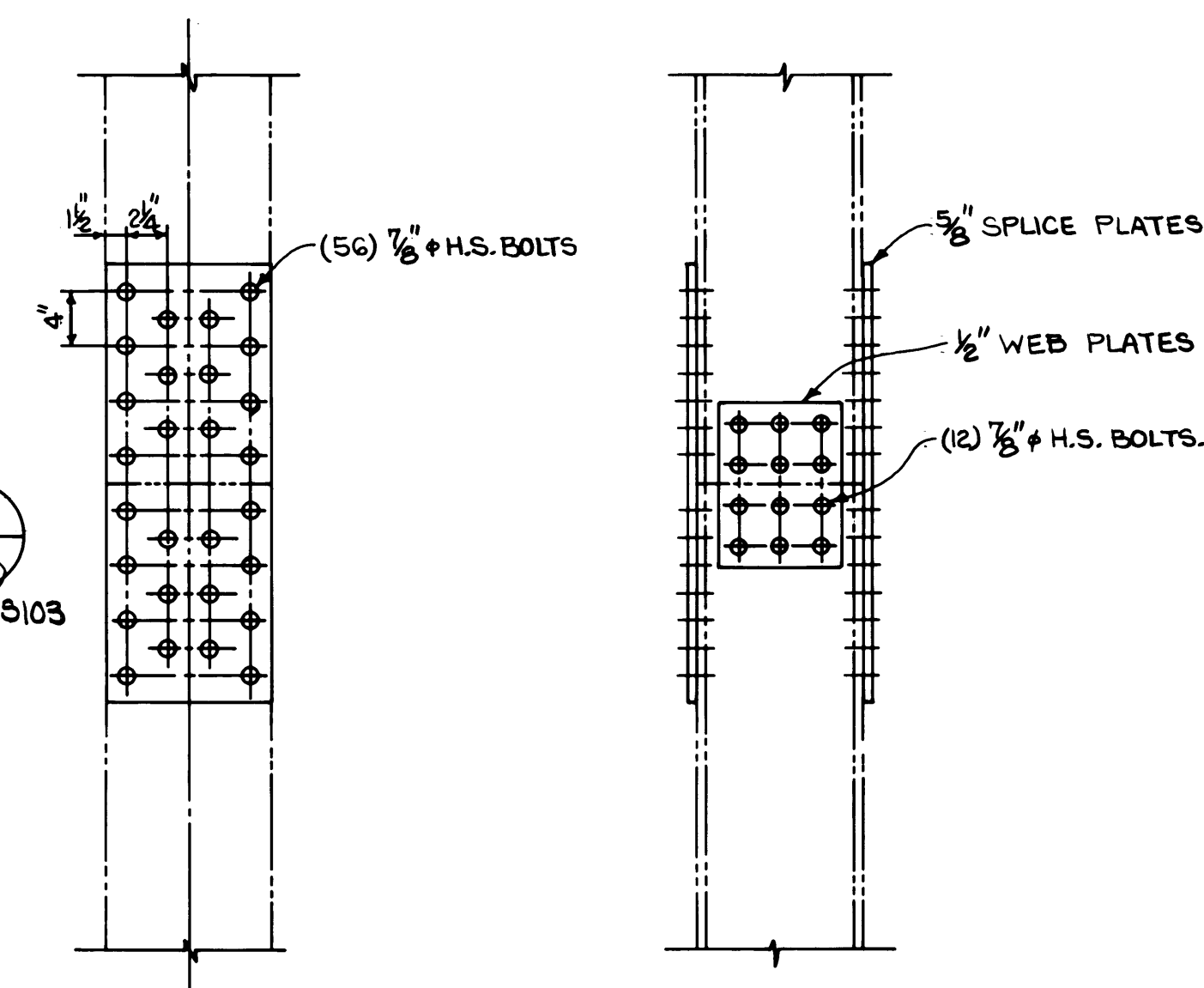
SEE SOUTH COLUMNS
FOR DETAIL OF FOUNDATION MODIFICATION

COL. LINE 6 # 7
CENTER COL.~ EAST ELEV.



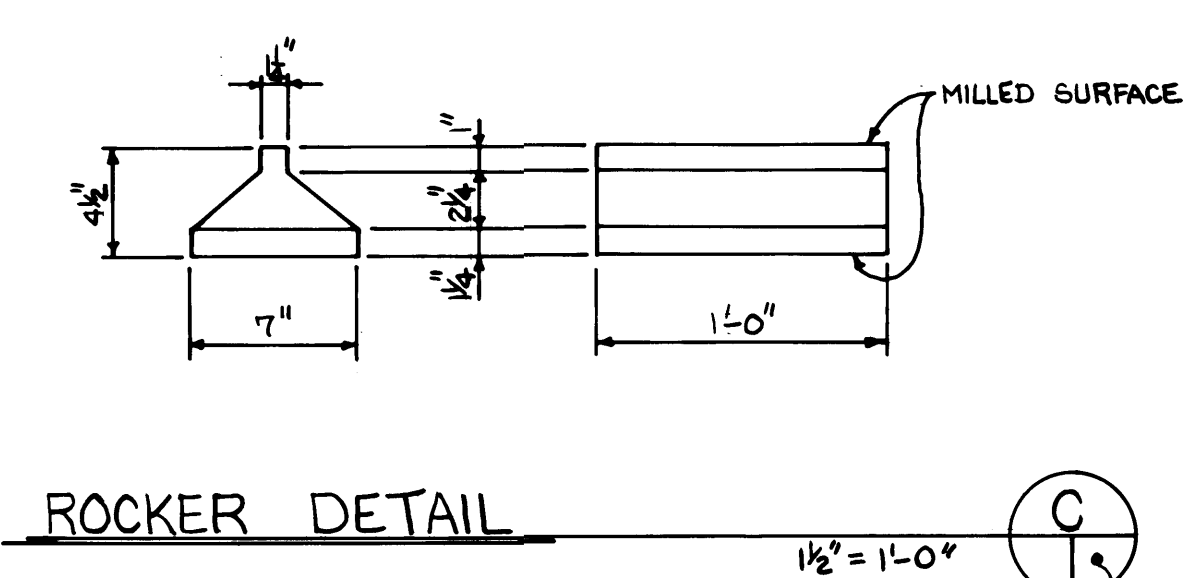
LONGITUDINAL BRACING

N.T.S.
S101 S103



COLUMN SPLICE
COLS. 6 & 7

A-103



ROCKER DETAIL

1 1/2\"/>



Whitacre Engineers, Inc.
Consulting Engineering & Land Planning
2124 SO. W. STREET P.O. BOX 9677
TACOMA, WASHINGTON 98401 252-9444



MARK	REVISION	BY	APP.	DATE
	NO. 45 BUILT DIVISIONS	R.J.S.		2/3/88

DRAWN <u>B.C.</u>	DATE <u>5-30-84</u>	PORT OF TACOMA TACOMA TERMINALS, INC. EAST 11th STREET VIADUCT MODIFICATIONS COLUMN BENTS 6 & 7	SCALE <u>1" = 1'-0"</u>
CHECKED <u>ALP</u>	DATE <u>5-30-84</u>		DRAWING NO.
CHECKED <u>P</u>	DATE <u>5-30-84</u>		EP-3880-23-S103
CONT. NO. <u>560</u>			SHEET <u>84</u> OF <u>88</u>
FIELD BOOK (S)			
APPROVED <u>Julius T. Tapp</u>	DATE <u>5/31/84</u>		
PROJECT MANAGER <u>R. J. S.</u>	DATE <u>5/31/84</u>		
CHIEF ENGINEER			

PUYALLUP RIVER

+ ELEV 100.00
+ N 11.30

EXISTING WOOD TIE

OVERHEAD TELEPHONE DUCTS

PLUG EXISTING PAVEMENT DRAIN BENT 5

T.C. 14.1' B.C. 13.5'

EXISTING BRACING TO BE REMOVED

NEW BRACING

EDGE OF VIADUCT STRUCTURE

EAST 11TH STREET

EXISTING ASPHALT ROAD

SPLASH BLOCK S104 S107

SPLASH BLOCK S104 S107

MATCH LINE - SEE DWG. S105

VERTICAL BEND OF 14" LINE TO UNDERSIDE OF BRIDGE

EXISTING VAULT

LINE ABANDONED

S104 S107

S104 S107

REMOVE EXISTING STEEL STAIRS, INCLUDING CONNECTION TO BRIDGE AND CONCRETE FOOTINGS.

20 0 20 40 60
SCALE IN FEET

DRAWN B.C.		PORT OF TACOMA	
DATE 5-30-84		TACOMA TERMINALS, INC.	
CHECKED ALP		EAST 11th STREET	
DATE 5-30-84		VIADUCT MODIFICATIONS	
CHECKED P		GENERAL PLAN I	
DATE 5-30-84			
SCALE 1" = 40'			
APPROVED		SCALE AS NOTED	
DESIGNED		DRAWING NO.	
S104		85 88	



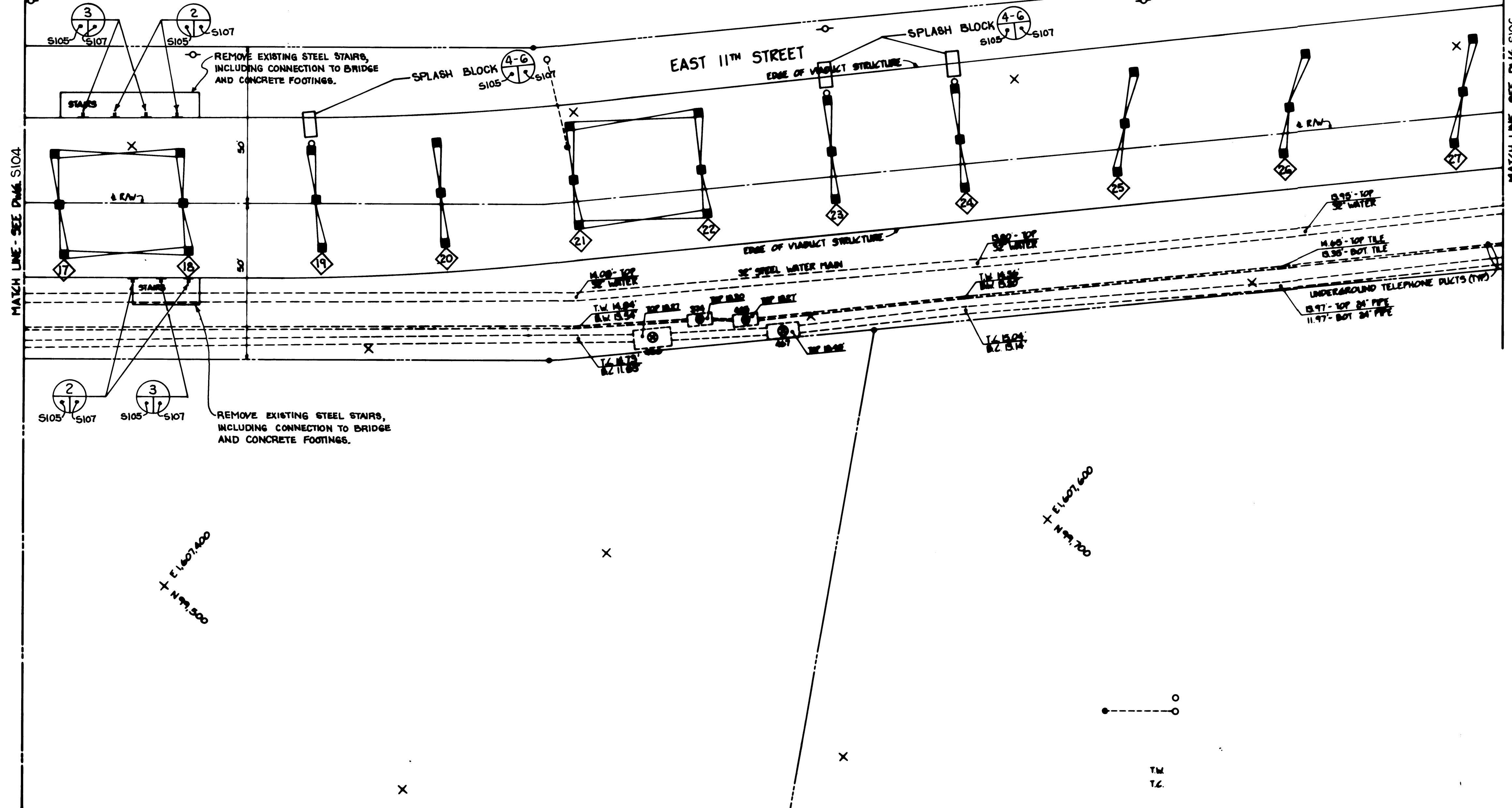
Wilshire Engineers, Inc.
1111 1st Avenue
Tacoma, WA 98402



REVISIONS TO BE MAILED
DATE
BY

MILWAUKEE WATERWAY

EAST 11TH STREET



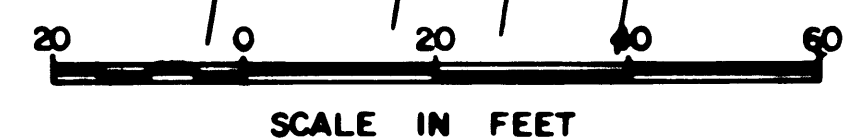
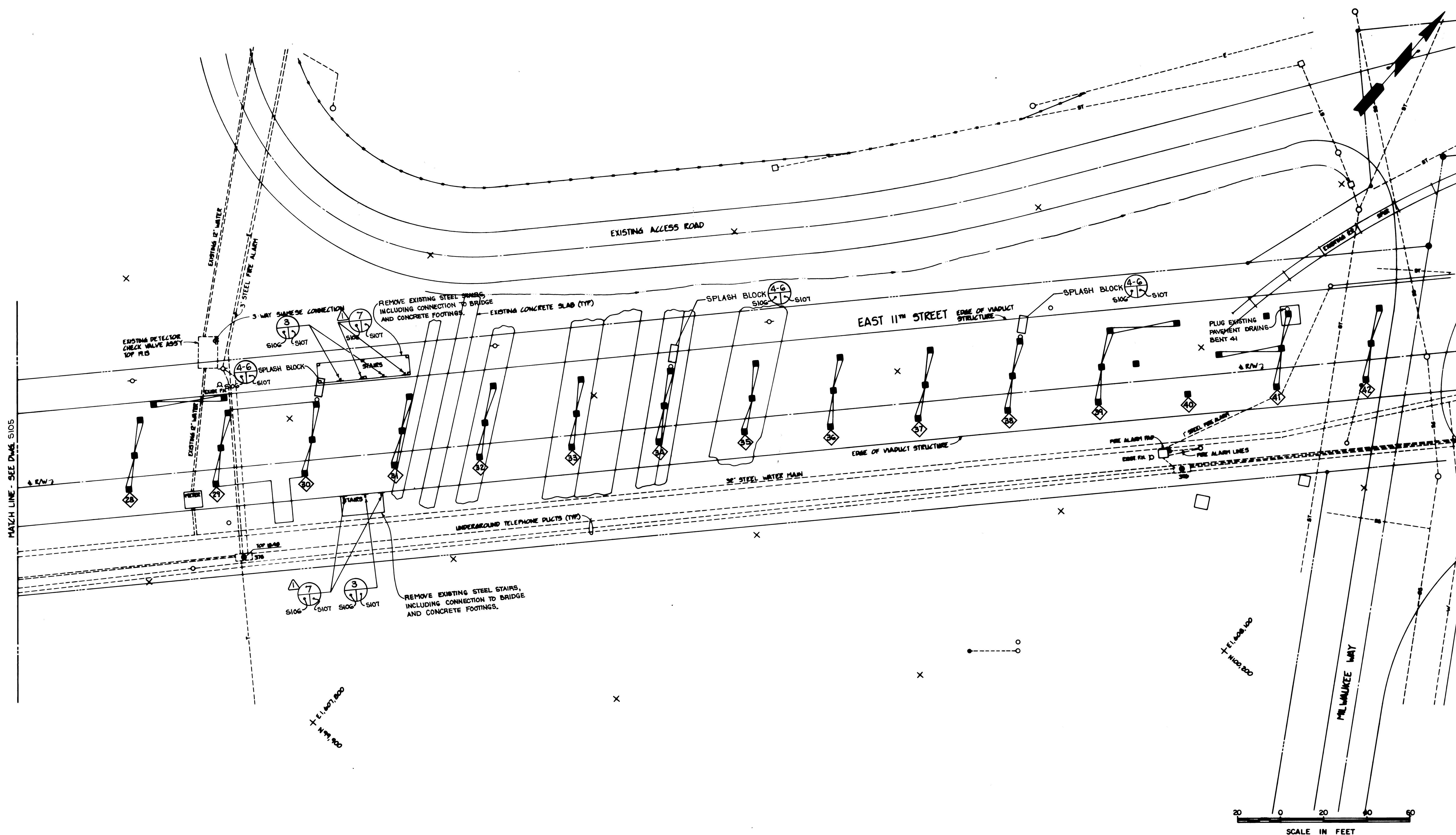
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DATE: 5-30-84		VIADUCT MODIFICATIONS	
CHECKED: J		GENERAL PLAN 2	
DATE: 5-30-84			
CONT. NO. 540			
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APPROVED: [Signature]		DATE: 5/31/84	
DRAWING NO. EP-3080-21-S105		86 OF 88	



White Engineering, Inc.
Consulting Engineering & Land Planning
200 1st Street, Suite 200
Tacoma, Washington 98402

NO.	REVISION	BY	APP.	DATE
1	AS-BUILT REVISIONS	ALP		5/31/84

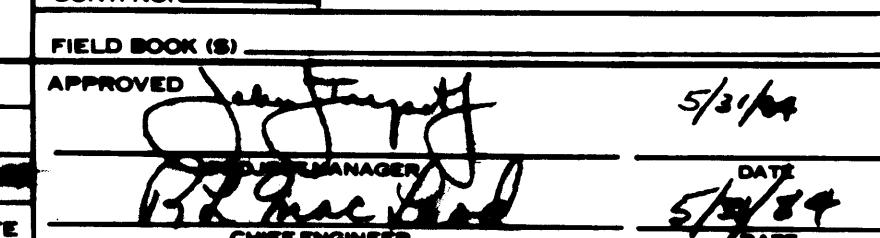


DRAWN B.C. DATE 5-30-84 CHECKED ALP DATE 5-30-84 CHECKED P DATE 5-30-84 SHEET NO. 882		PORT OF TACOMA TACOMA TERMINALS, INC. EAST 11th STREET VIADUCT MODIFICATIONS GENERAL PLAN 3	
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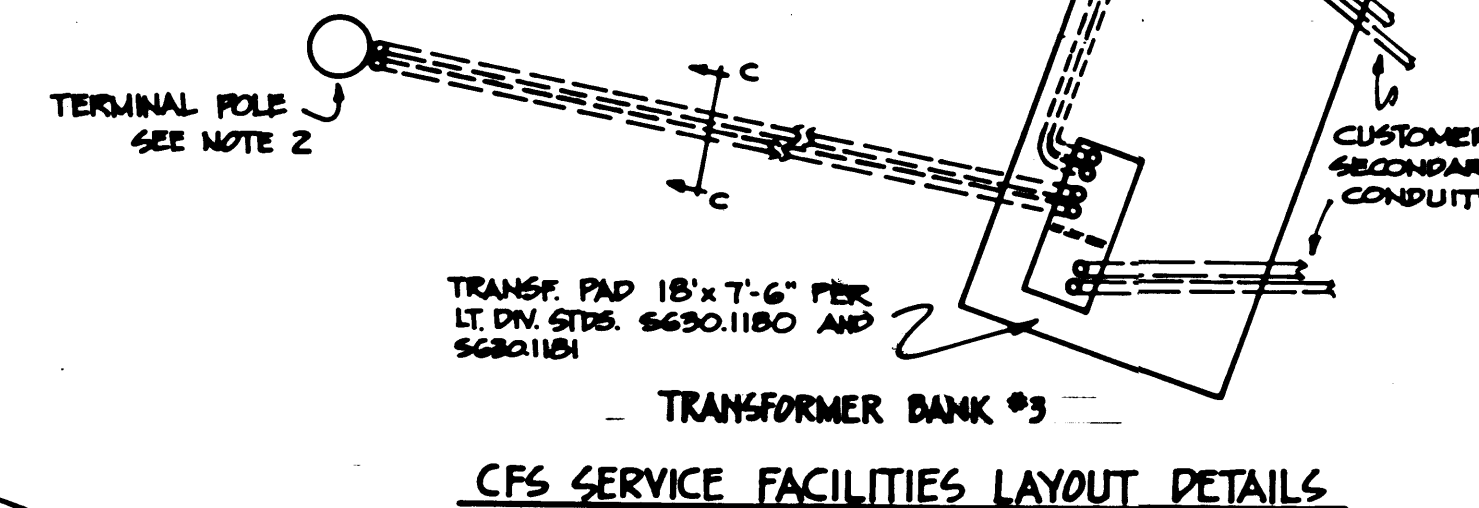
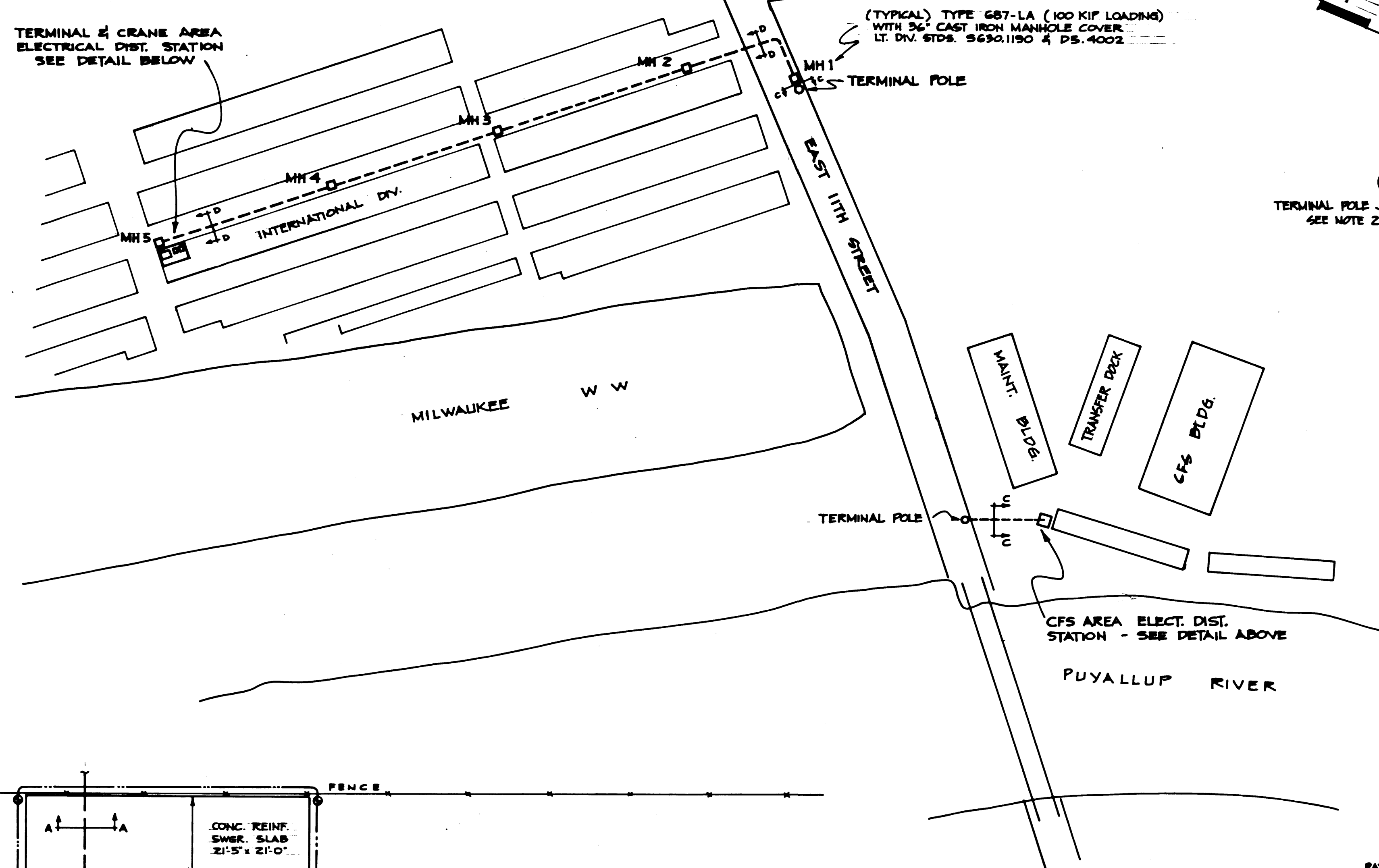


Whitson Engineers, Inc.
 Consulting Engineers & Land Planning
 1000 1st St. N.E.
 Seattle, Washington 98102

REVISION	BY	DATE



TERMINAL & CRANE AREA
ELECTRICAL DIST. STATION
SEE DETAIL BELOW



CFS SERVICE FACILITIES LAYOUT DETAILS

NOTES

CUSTOMER WILL FURNISH & INSTALL

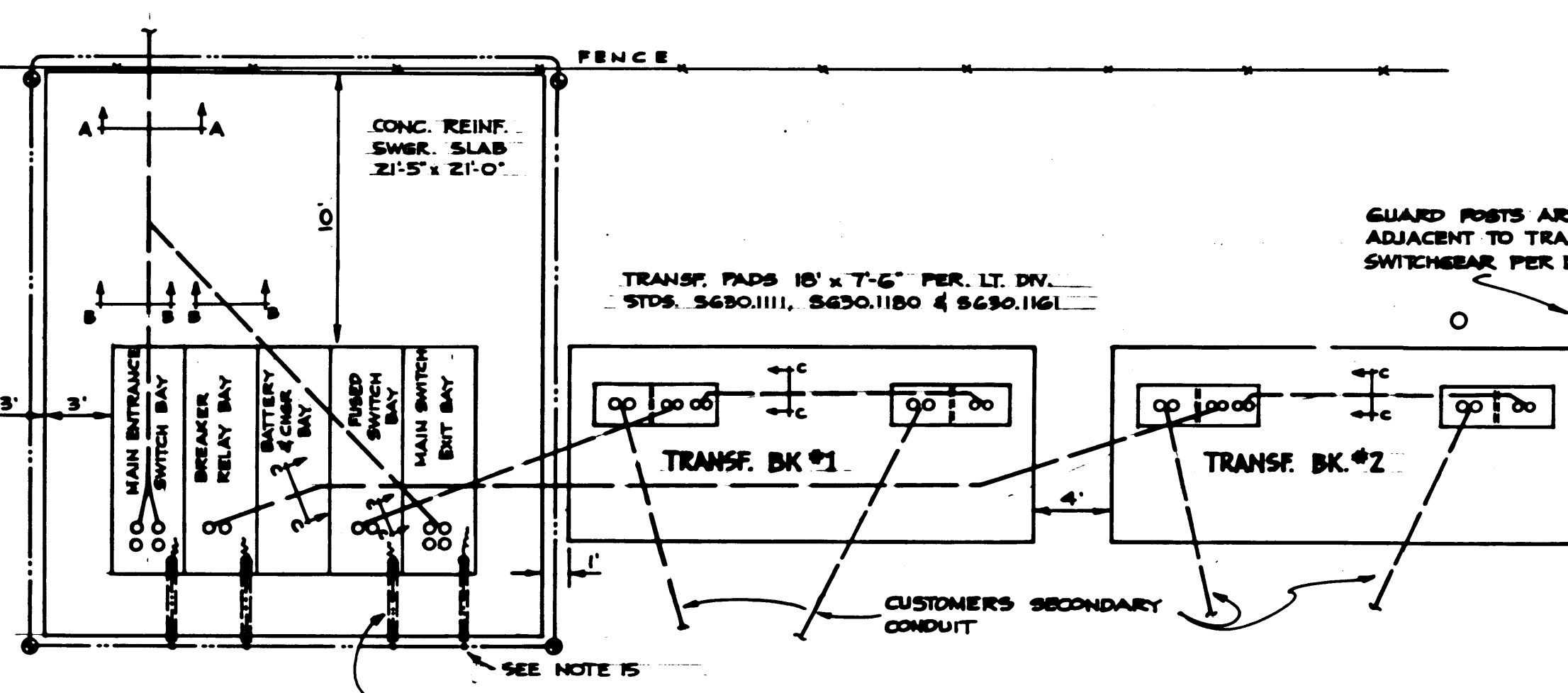
1. THE DUCT SYSTEM COMPOSED OF CONCRETE ENCASED CONDUITS, MANHOLES, SWGR, AND TRANS. PADS AS DIRECTED BY THE LIGHT DIVISION. THE DUCTLINE SYSTEM SHALL BE CONSTRUCTED, SPECIFICALLY LOCATED AND INSTALLED BY THE CUSTOMER IN ACCORDANCE WITH LT. DIV. STDS., SPECIFICATIONS, DRAWINGS AND REQUIREMENTS.
2. TWO RIGID GALV. SCHEDULE 40 STEEL CONDUIT POLE RISER AT EACH OF THE TWO TERMINAL POLES IN ACCORDANCE WITH LT. DIV. STDS. 5630.2010, 5630.2016 AND 5630.2020.
3. TWO DUAL TRANSFORMER PADS AT THE TERMINAL/CRANE SERVICE AREA AND ONE DUAL TRANSF. PAD AT THE CFS SERVICE AREA IN ACCORDANCE WITH LIGHT DIV. STDS. 5630.1105, 5630.1110, 5630.1111, 5630.1180 AND 5630.1181. CUSTOMER MUST NOT PAVE AROUND PADS UNTIL THE LT. DIV. HAS INSTALLED THE TRANSF. GROUND MAT.
4. CUSTOMER IS REQUIRED TO PARALLEL THE SECONDARIES FROM EACH TRANSFORMER IN A MULTIPLE TRANSF. INSTALLATION AND CONNECT THEM TO A COMMON CONTINUOUS BUS BEFORE ANY DISTRIBUTION TO LOADS.
5. ALL SECONDARY EQUIPMENT INCLUDING SECONDARY CABLE IN CONDUIT TO PADMOUNT TRANSF. SECONDARY COMPARTMENTS. CUSTOMER WILL BE RESPONSIBLE FOR 4160V SECONDARY CABLE STRESS CONE TERMINATIONS.
6. ALL METERING FACILITIES IN ACCORDANCE WITH LIGHT DIVISION STDS., CUSTOMER SERVICE POLICIES, AND SPECIAL REQUIREMENTS. HIGH VOLTAGE (4160V) SECONDARY SERVICE METERING BAY TO BE CONSTRUCTED AND INSTALLED PER LATEST USERC STANDARDS - SECTION 400.
7. PROVIDE NECESSARY EASEMENTS.
8. AS FUTURE DEVELOPMENT OCCURS ADJACENT TO THE PROPOSED UNDERGROUND PRIMARY ELECTRICAL SYSTEM, THE CUSTOMER WILL BE RESPONSIBLE FOR ALL COSTS RELATING TO DUCT LINE EXTENSIONS REQ'D. TO PROVIDE SERVICE.

LIGHT DIVISION TO FURNISH AND INSTALL

9. FURNISH CIVIL CONSTRUCTION DRAWINGS OF PROPOSED DUCTLINE SYSTEM WITH ASSOCIATED SPECIFICATIONS FOR INCLUSION IN THE CUSTOMERS BID DOCUMENTS.
10. ALL 13.8KV PRIMARY CABLE AND SWITCHGEAR.
11. PROVIDE INSPECTION OF DUCT LINE SYSTEM.
12. PROVIDE 36" CAST IRON MANHOLE COVERS AND RINGS FOR MANHOLES.
13. TWO 2500KVA, 3-PHASE, 13.8KV TO 4160V/2400V PADMOUNT TRANSFORMERS FOR THE CRANE SERVICE. TWO 1500KVA, 3-PHASE, 13.8KV TO 480V/277V PADMOUNT TRANSFORMERS FOR THE TERMINALS SERVICE AND TWO 1500KVA, 3-PHASE, 13.8KV TO 480V/277V PADMOUNT TRANSFORMERS FOR THE CFS SERVICE.
14. MAKE ALL 13.8KV PRIMARY AND 480V SECONDARY TERMINATIONS AT ALL LIGHT DIV. FURNISHED TRANSFORMERS. THE LIGHT DIVISION WILL MAKE THE ATTACHMENT OF THE CUSTOMER FURNISHED AND INSTALLED STRESS CONE TERMINATIONS AT THE 4160V SECONDARY SERVICE TRANSF. BUSINGS.
15. 4/0 CU SWITCHGEAR GROUND LOOP TO BE APPROX. 18" BELOW BASIC GRADE. 3/4" x 8" GROUND RODS TO BE INSTALLED PER LT. DIVISION STD. D11.2103. 4/0 CU GROUND PISTOLS TO BE BROUGHT INTO SWGR. CUBICLES THROUGH 1 1/2" PVC PIPE (GROUND RODS SHOWN @)

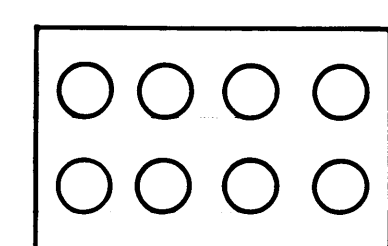
REFERENCE

LIGHT DIVISION ORIGINAL LETTER OF AGREEMENT WITH PORT OF TACOMA DATED NOVEMBER 1, 1983, AND REVISED AGREEMENT DATED JUNE 13, 1984.

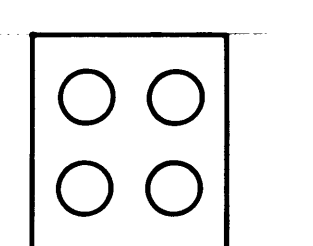


TERMINAL & CRANE SERVICE FACILITIES LAYOUT DETAIL

1 - 1 1/4" SCH. 40 PVC DIRECT BURY FOR GROUND WIRES - 4 PLACES (SEE NOTE 15)



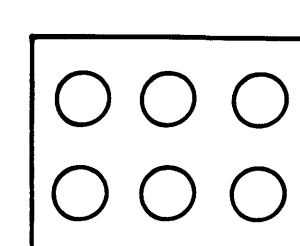
SECTION A-A



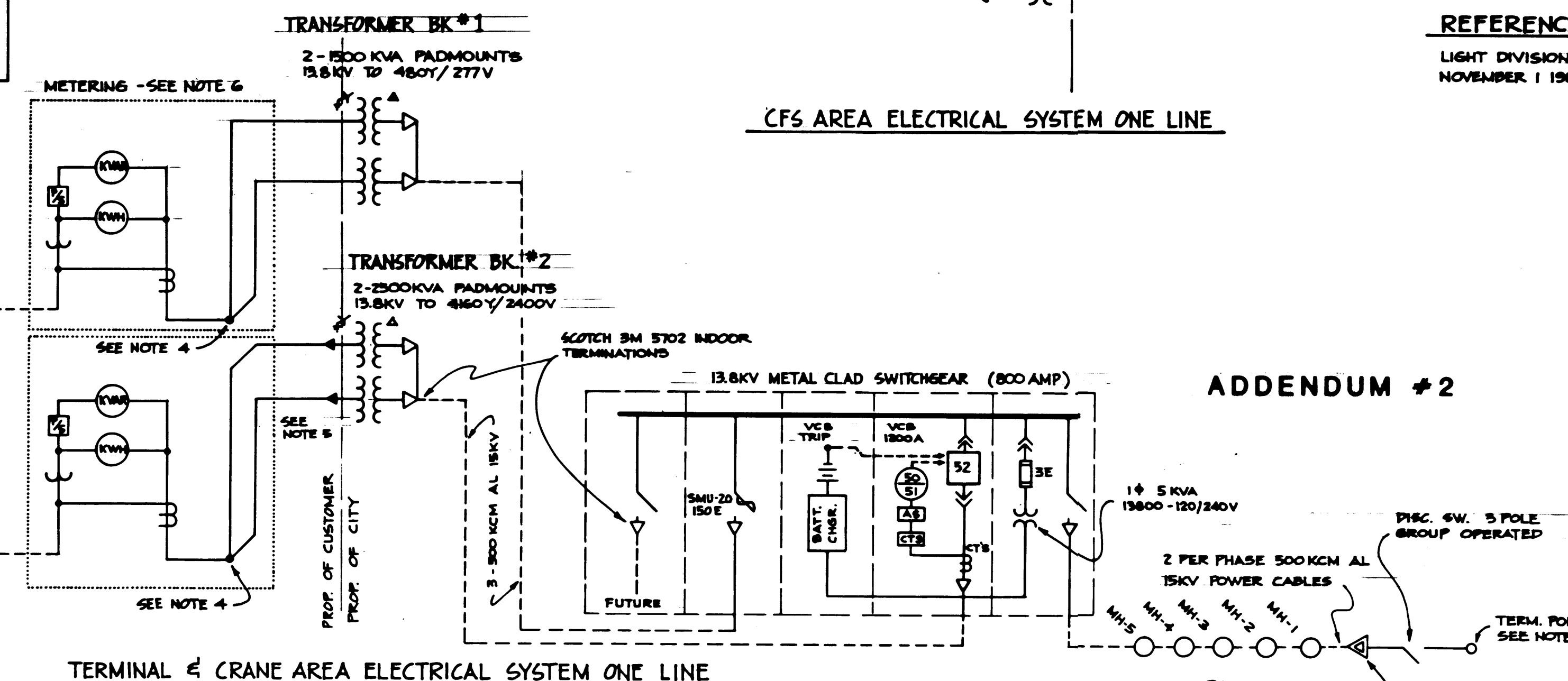
SECTION B-B



SECTION C-C



SECTION D-D



TERMINAL & CRANE AREA ELECTRICAL SYSTEM ONE LINE

CFS AREA ELECTRICAL SYSTEM ONE LINE

ADDENDUM #2

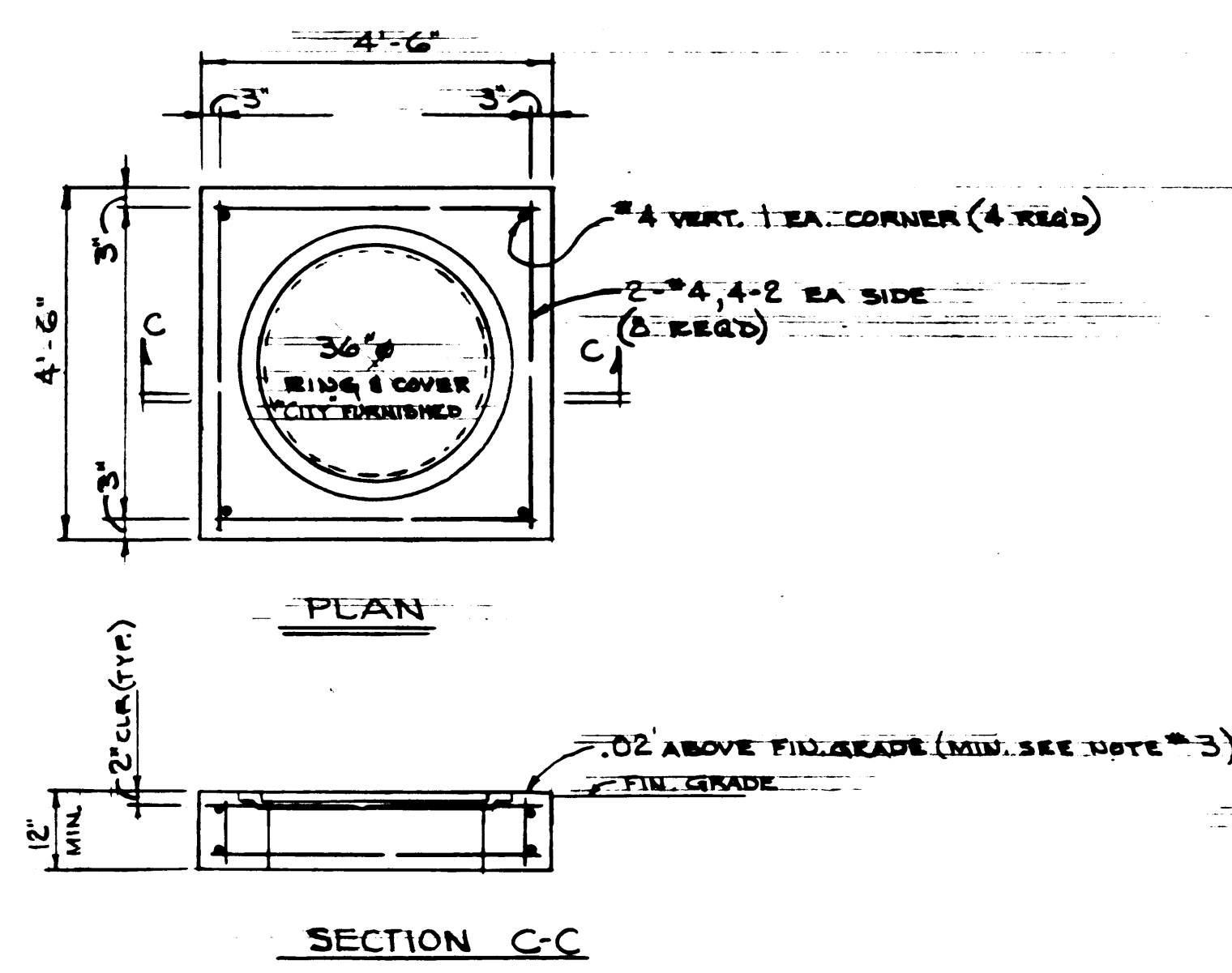
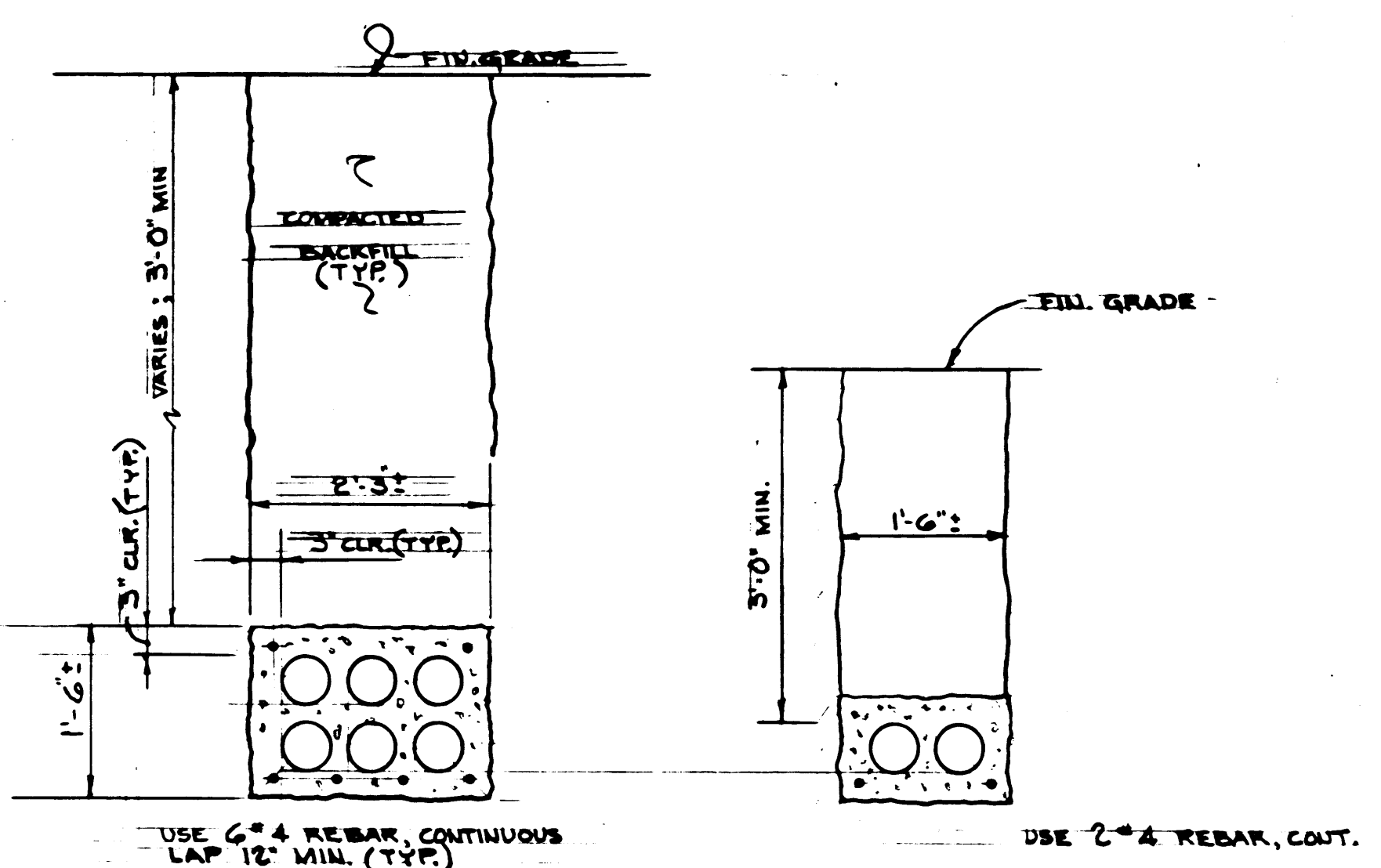
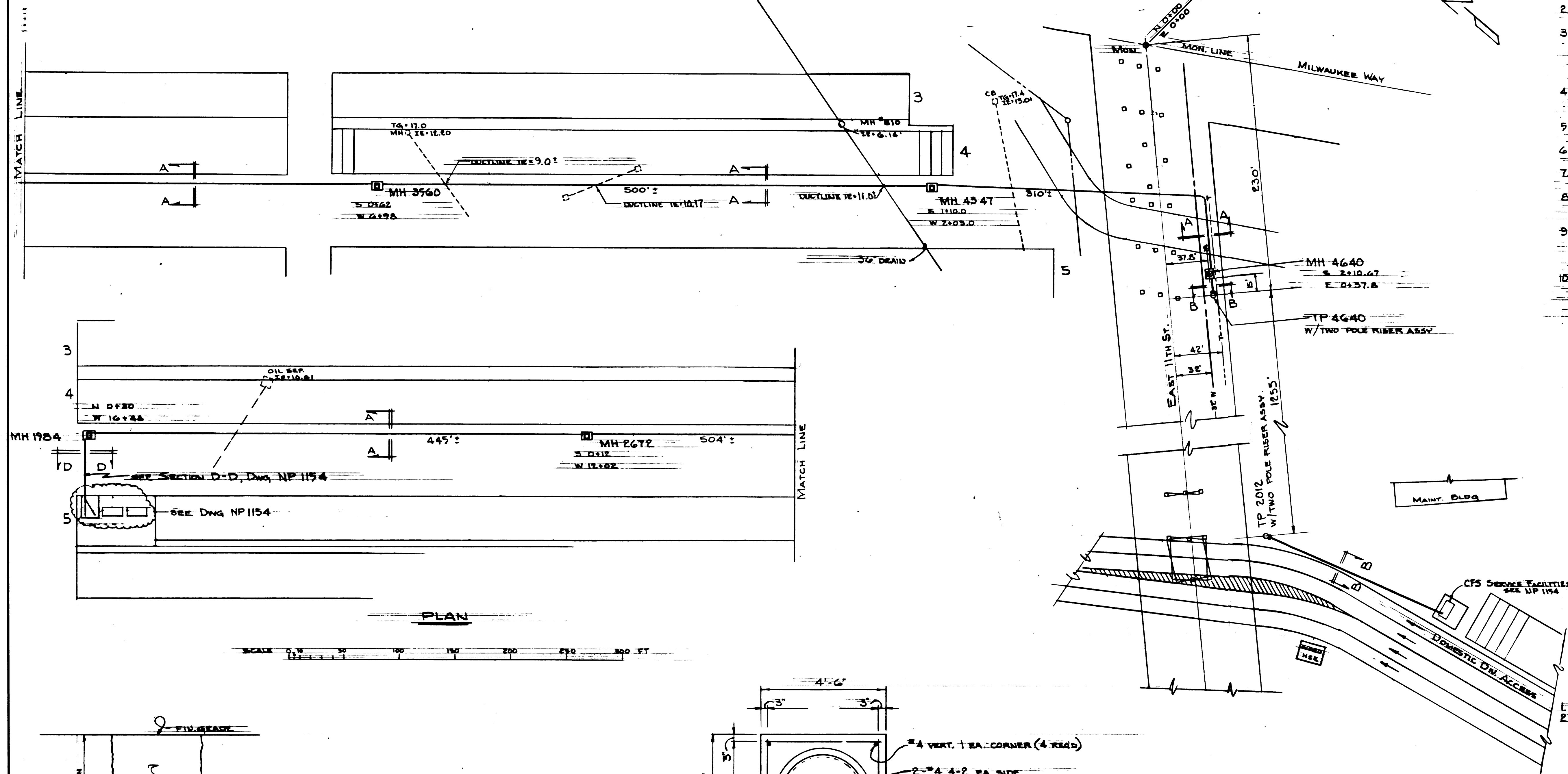
NO.	DATE	REVISION	BY	CHK.	APPD.
CITY OF TACOMA DEPARTMENT OF PUBLIC UTILITIES LIGHT DIVISION					
PORT OF TACOMA TACOMA TERMINALS, INC. 11TH & MILWAUKEE WAY ELECTRICAL LAYOUT & DETAILS					
SUBMITTED	DESIGNED		DRAWN	CHECKED	
APPROVED	SJK		RCE	SJK	
SECTION SUPERVISOR		DATE		SCALE	
CHIEF ENGINEER		3-6-84		None	
DRAWING NO.		NP-1151			
SHEET		89 OF 89			

NOTE: ALL MANHOLES (MH) ARE 6'x8'x7'
W/36" RING & COVER SET IN A CONCRETE
RISER. SEE DETAIL A

PULS 7
544 XT-234 XX

NOTES

1. SEE "CONTRACT SPECIFICATIONS" FOR CONSTRUCTION DETAILS.
2. CONCRETE SHALL BE 3000 PSI @ 28 DAY COMP. STRENGTH. MAX. AGGREGATE SIZE OF 3/4".
3. MANHOLES (MH) SHALL BE SET LEVEL ON A MIN. OF 3" SAND OR FEA GRAVEL. MANHOLE RISERS SHALL SET AT GRADE +.02' IF IN HARD SURFACED AREA OR AT GRADE +.10' IF IN LANDSCAPED AREA.
4. ALL MANHOLES SHALL BE 6'x8'x7' W/36" RING & COVER SET IN CONCRETE RISERS AND HAVE BUMPS W/MIN. SIZE 18" x 12" DEEP.
5. DUCTLINES SHALL BE GROUTED WATER-PROOF INTO MANHOLES USING STD END BELLS.
6. ALL TERMINAL POLES (TP) ARE EXISTING OR WILL BE INSTALLED BY TACOMA CITY LIGHT.
7. CONDUIT BENDS SHALL BE SCHED. 40 PVC W/48" RADIUS.
8. 90° ELBS AT POLE RISERS & FIRST 10' OF DUCT FROM ELL SHALL BE SCHED. 40 GALV. STEEL.
9. ELEV'S SHOWN FOR TOP OF MH RISERS & INVERT OF DUCTLINES ARE BASED ON EXIST. GRADES PER "WHITACKER ENGR INC." USING "PORT OF TACOMA DATUM".
10. FOR PURPOSES OF LOCATING MANHOLES, MON. @ 11TH & MILWAUKEE WAY IS N 0+00, E 0+00 & MON. LINE OF 11TH ST. IS CONSIDERED DUE NORTH.



CONSTRUCTION ELEVATIONS					
MH #	FIN. GRADE	TOP OF RISER	BOT. OF M.H.	BOT. OF DUCT, 2' EXT. REQ'D	
4640	18.02	+02	8.72	11.22	NO
4347	18.02	+02	8.72	11.22	NO
3960	17.52	+02	6.02	8.72	YES
2672	18.52	+02	9.02	11.72	NO
1984	18.52	+02	9.02	11.72	NO

2'-0" EXTENSION TO BE PLACED BETWEEN TOP & CENTER SECTION

NO.	DATE	REVISION	BY	CHK.	APP.
CITY OF TACOMA DEPARTMENT OF PUBLIC UTILITIES LIGHT DIVISION					
PORT OF TACOMA TACOMA TERMINALS INC. 11TH & MILWAUKEE WAY LAYOUT & DET'S					
SUBMITTED	DESIGNED	DRAWN	CHECKED		
APPROVED	CHIEF ENGINEER	DATE	SCALE		
DRAWING NO.			SHEET 90 OF 90		
NP-1153			EP 3880-23		

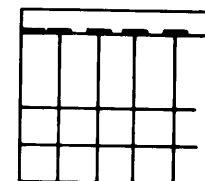
APPENDUM 2

LEGEND

- NOTES:
1. SEE C301, C401 & E101 FOR ADDITIONAL SITE DRAWING LEGENDS.
2. SEE C201 FOR LEGEND OF EXISTING FEATURES.

SECTOR MATCH LINE

CONTAINER PARKING AREA w/ CONCRETE BACKING LOGS & DOLLY STRIP

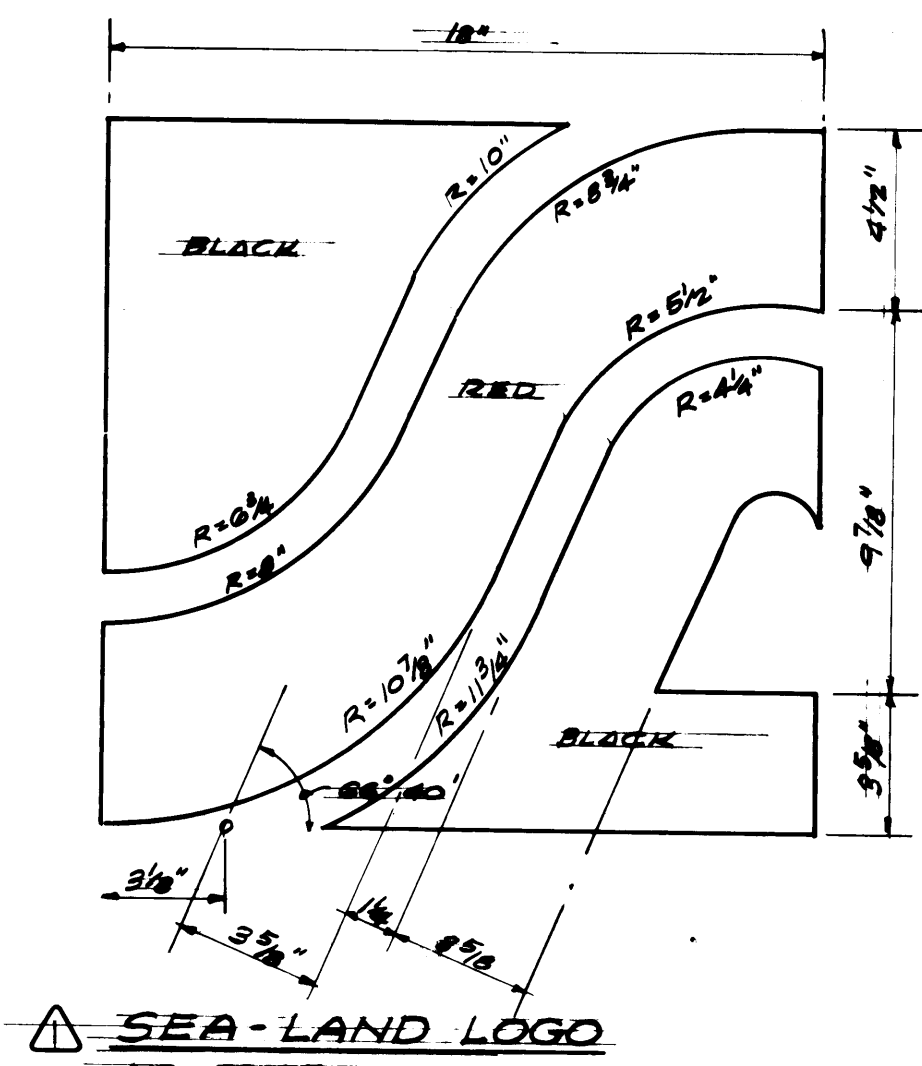


LIGHT POLE
FIRE HYDRANT
ROW SIGN POLE

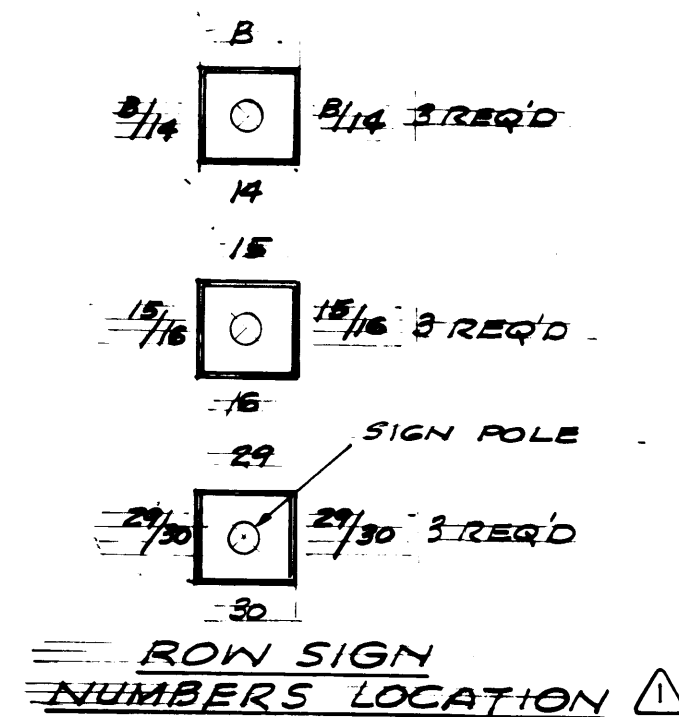
REEFER RECEPTACLE
HORIZONTAL COORDINATE

CURVE DATA CALLOUT

SIGNAGE, PAVING OR STRIPING CALLOUT



SEA-LAND LOGO
NO SCALE



SIGNAGE SCHEDULE

Sign	Message	M.U.T.C.D. Standard	Size	Color	Type of Mounting (unless otherwise indicated)
R-1	STOP	R1-1	24"x24"	White on Red	Post
R-1A	STOP THIS LANE	R1-1	24"x24"	White on Red	Post
R-2	SPEED LIMIT 20	R2-1	24"x30"	Black on White	Post
R-3	NO RIGHT TURN	R3-1	24"x24"	Red, Black on White	Post
R-4	KEEP LEFT	R4-8	24"x30"	Black on White	Post
R-5	KEEP RIGHT	R4-7	24"x30"	Black on White	Post
W-1	TRAFFIC TURNS RIGHT	W1-6	48"x24"	Black on Yellow	Fence
W-2	TRAFFIC TURNS LEFT	W1-6	48"x24"	Black on Yellow	Fence
W-3	PAVEMENT ENDS	W8-3	30"x30"	Black on Yellow	Post
D-1	EXIT	N.A.	18"x18"	White on Green	Fence
ID-1	AUTO SHIPPING KEEP LEFT	N.A.	48"x18"	White on Green	Post
ID-2	See Detail	N.A.	120"x62"	See Detail	Over head-Cantilever Mount
ID-7	EMPLOYEE & VISITOR PARKING	N.A.	48"x18"	White on Green	Post
ID-8	VISITOR PARKING	N.A.	24"x30"	White on Green	Post
DD-1	DOMESTIC GATE	N.A.	48"x12"	White on Green	Post
DD-2	See Detail	N.A.	110"x62"	See Detail	Overhead-Cantilever Mount
DD-3	SCALE BYPASS KEEP RIGHT	N.A.	36"x24"	White on Green	Post

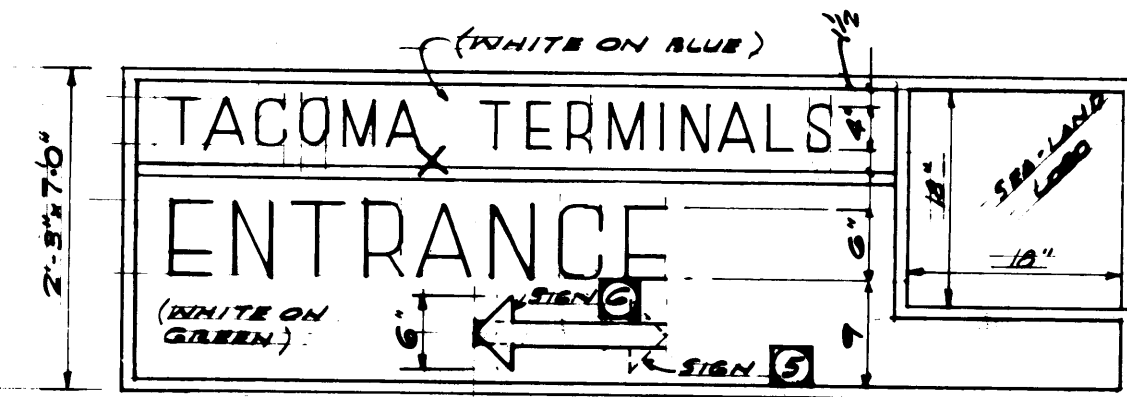
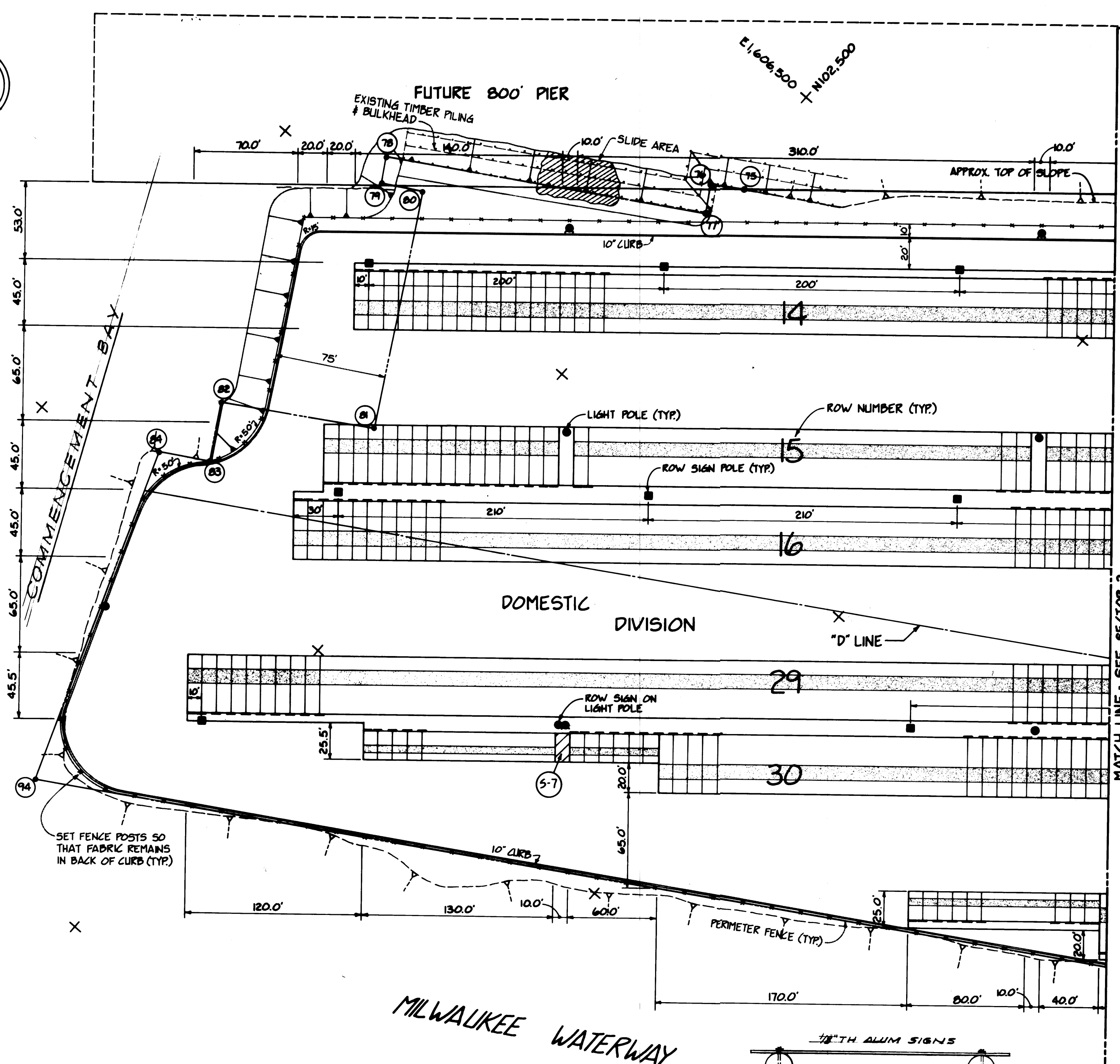
Note: For non-standard signs, minimum letter height shall be four inches; arrow length shall be eight inches.

Note: Signs and pavement markings shall conform to the details of the "Manual of Uniform Traffic Control Devices for Streets and Highways", U.S. Department of Transportation, Federal Highway Administration, dated 1978.

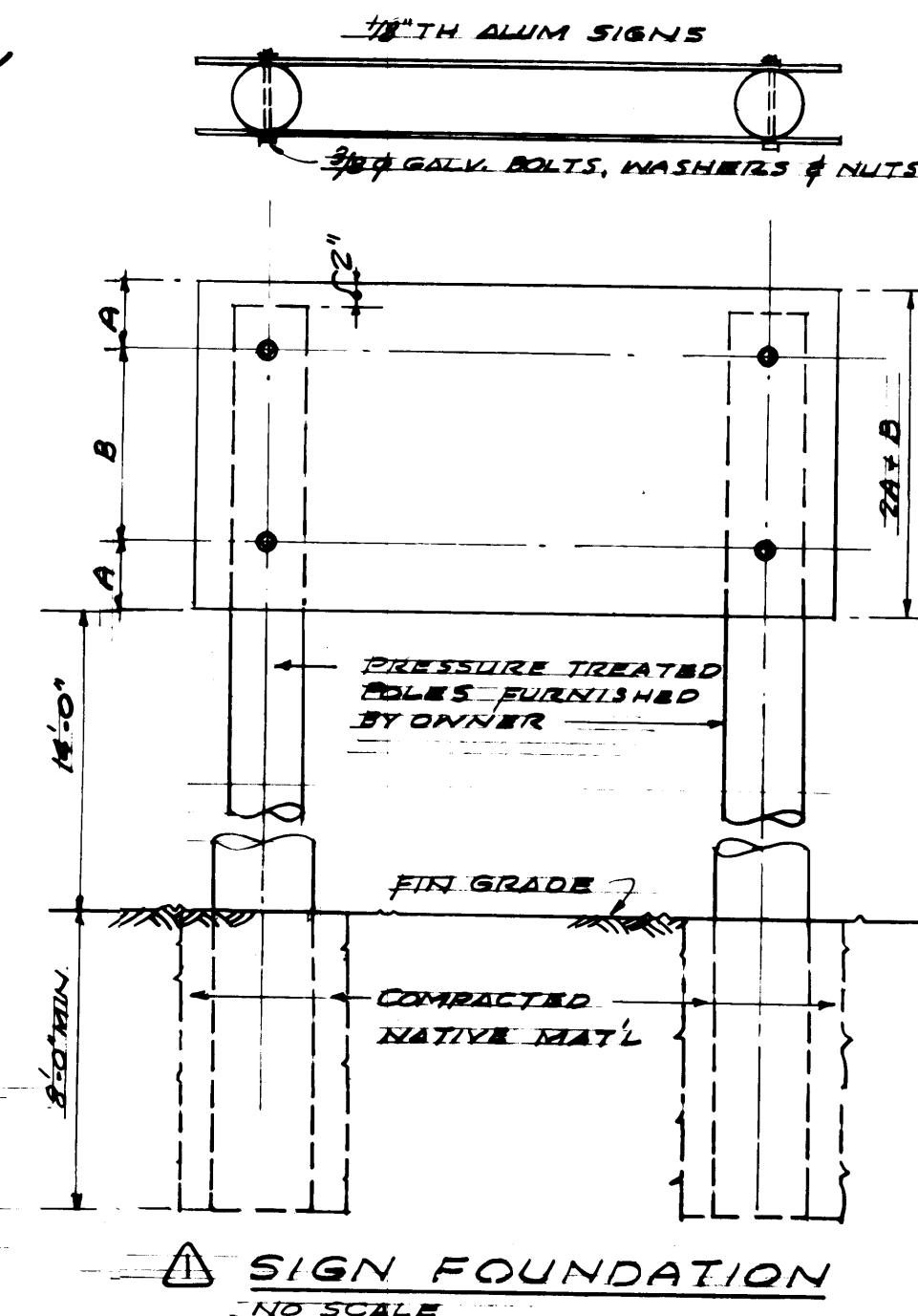
PAVEMENT MARKING SCHEDULE

Pavement Marking	Message	Minimum Size	Color
P-1	STOP*	6.0' (Writing) 2.0' (Stop Bar)	White
P-2	EXIT	6.0'	White
P-3	(Hold Line)**	2.0'	White
P-4		9.5'	White
P-5L; P-5R		8.0'	White
P-6	SPEED BUMP	6.0'	Yellow
P-7	1 2 3 4 (Scale Lane Marking)	6.0'	White

* 24" Wide Stop Bars, the full width of the stopping lane, shall be placed in the locations shown. Maintain 36 inch separation between stop bar and stop message.
** "Hold Line" is similar to 24" Wide Stop Bar.



SIGN NO.	A	B	24" W
1-4	9"	1'-11"	3'-5"
5-6	9"	1'-8"	2'-9"
7	9"	1'-2"	2'-2"



10	11	12	13
14	15	16	17
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22	23	24	25
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982	983	984	985
986	987	988	989
990	991	992	993
994	995	996	997
998	999	1000	1001

INDICATES NUMBER OF ROW SIGN PANELS
NO SCALE

SCALE IN FEET
50 0 50 100 150

DRAWN BY DATE 5-29-84		PORT OF TACOMA TACOMA TERMINALS, INC.	
--------------------------	--	--	--

251	451	601	801	1001	1151	1351	1501
252	452	602	802	1002	1152	1352	1502
253	453	603	803	1003	1153	1353	1503
254	454	604	804	1004	1154	1354	1504

LOCATED IN FIBER BULBHEAD
6 UNITS.

RESET SWITCH
PS 000008

ORANGE

RED

BLUE

E-STOP
L1-2-78
#PS000008

INTERFACE UNIT
#6725
LEVITON

INTERFACE UNIT
#6324
LEVITON

RESET

PUSH TO TEST SW

204

203

202

INTERFACE UNIT
#6725
LEVITON

INTERFACE UNIT
#6324
LEVITON

RESET SWITCH
PS 000008

3

2

1

BLUE

RED

E-STOP
L1-2-78
#PS000008

SUB STATION PANEL-L1
120 VAC

100A/2

104

120 VAC

100A/2

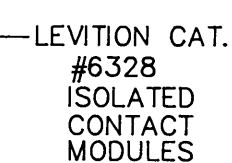
103

120 VAC

102

SA

SA



9
C
T

CONNECTION TO 9C TERMINAL IS MADE WITH THE VCE IN THE CONNECTED POSITION ONLY

TERMINAL 9T IS MADE IN THE TEST POSITION

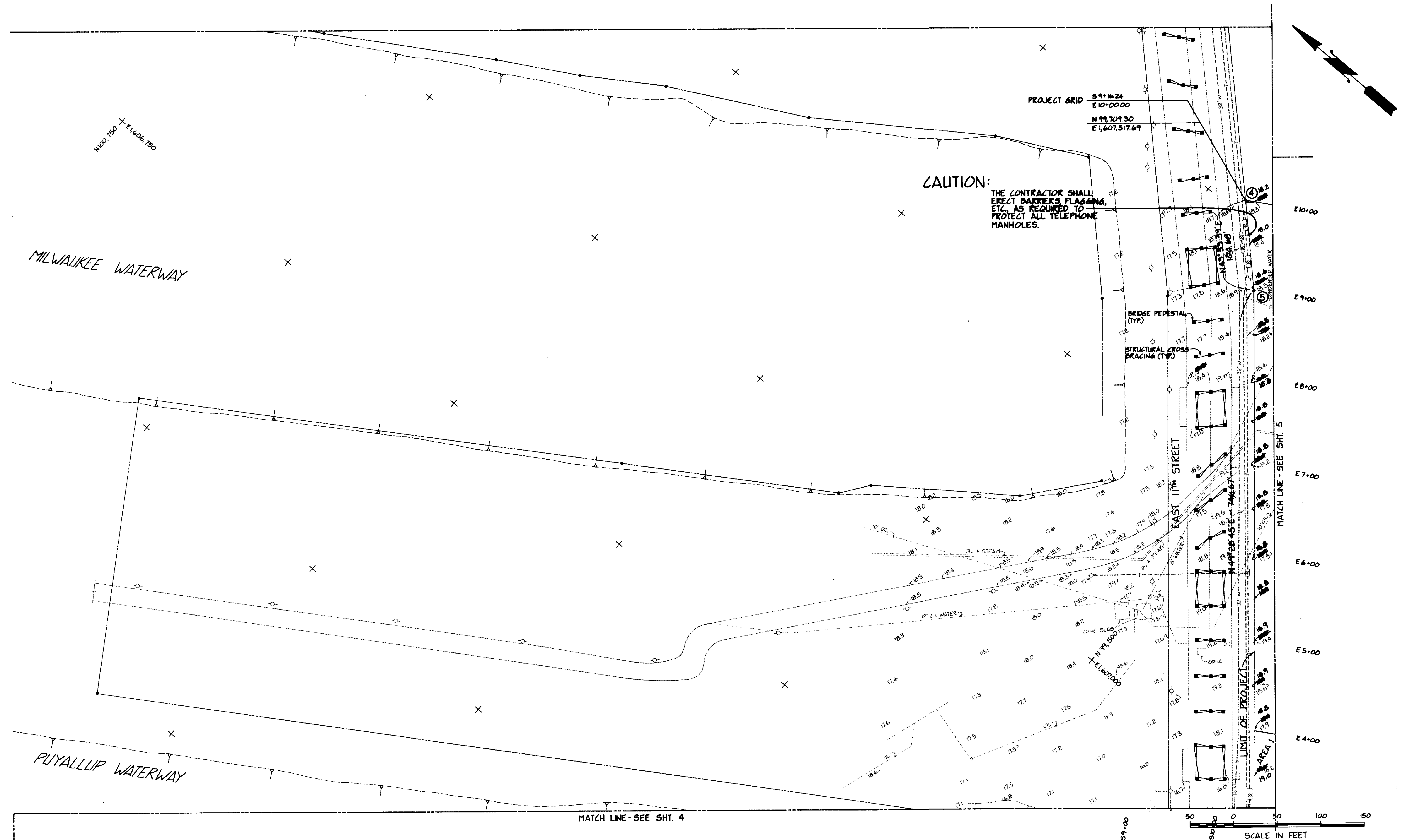
(TYPICAL)

LOCATION OF THE SECDIONARY DISCONNECT CONTACTS
ON THE TOP FRONT OF THE VCB

LEFT SIDE

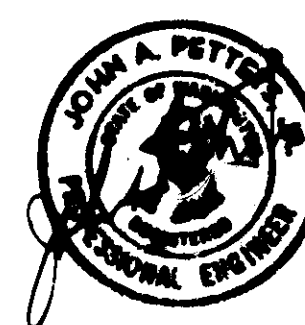
THIS DIAGRAM OF ALL DEVICES WITH THE VCB IN THE CONNECTED POSITION AND OPEN, WITH THE CLOSING SPRING CHARGED, SEE THE VCB INSTRUCTION BOOK FOR THE DETAILED SEQUENCE OF OPERATION

DRAWING No. EP-3880-23
CONTRACT No. _____
SHEET No. 58A ☐ 88



REFERENCE DRAWING EP-3880-23 SHEET REFC1

ISSUED FOR CONSTRUCTION 4/5/84



Whitacre Engineers, Inc.
Consulting Engineering & Land Planning
2124 SO. K STREET P.O. BOX 5617
TACOMA, WASHINGTON 98405 (206) 272-5144

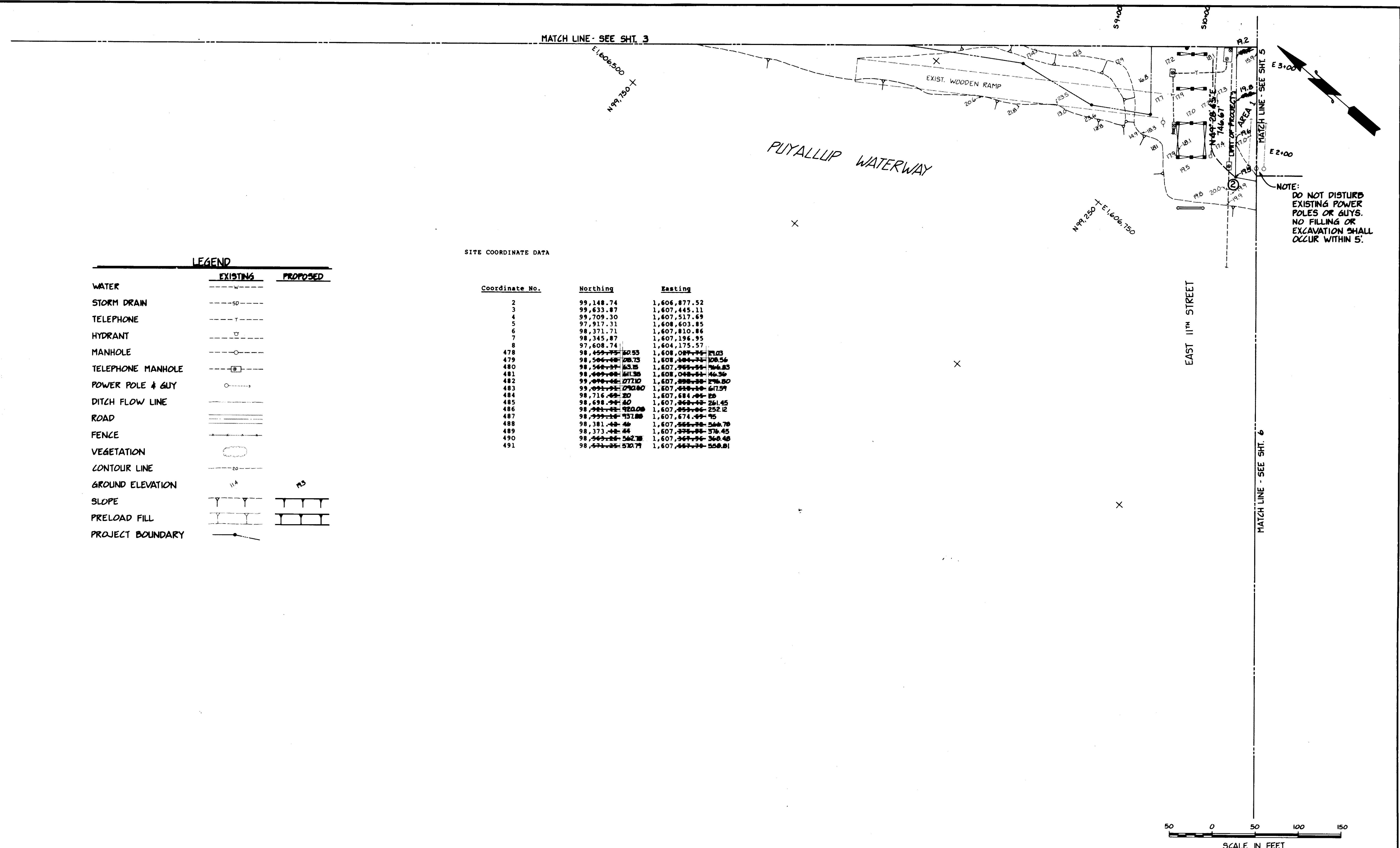


MARK	REVISION	BY	APP.	DATE
	ISSUE FOR CONSTRUCTION	J.T.P.		4-5-84
	REVISED GRADES	J.T.P.		4-5-84

DRAWN	MT
DATE	12-27-83
CHECKED	J.T.P.
DATE	12-27-83
CHECKED	J.T.P.
DATE	1/16/84
CONT. NO.	860

PORT OF TACOMA
TACOMA TERMINALS, INC.
C.F.S. AREA EARTHWORK
PLAN

APPROVED	12/29/83	SCALE	NOTED
12/29/83	12/29/83	DRAWING NO.	EP-3865-23-C1
		SHEET	3 OF 9



LEGEND		
	EXISTING	PROPOSED
WATER	---	---
STORM DRAIN	---	---
TELEPHONE	---	---
HYDRANT	---	---
MANHOLE	---	---
TELEPHONE MANHOLE	---	---
POWER POLE & GUY	---	---
DITCH FLOW LINE	---	---
ROAD	---	---
FENCE	---	---
VEGETATION	---	---
CONTOUR LINE	---	---
GROUND ELEVATION	---	---
SLOPE	---	---
PRELOAD FILL	---	---
PROJECT BOUNDARY	---	---

SITE COORDINATE DATA

Coordinate No.	Northing	Easting
2	99,148.74	1,606,877.52
3	99,633.87	1,607,445.11
4	99,709.30	1,607,517.69
5	97,917.31	1,608,603.85
6	98,371.71	1,607,810.86
7	98,345.87	1,607,196.95
8	97,608.74	1,604,175.57
478	98,459.75	1,608,087.44
479	98,506.48	1,608,184.44
480	98,568.35	1,607,967.55
481	98,609.88	1,608,048.44
482	99,099.44	1,607,898.38
483	99,091.91	1,607,618.18
484	98,716.49	1,607,684.45
485	98,698.44	1,607,868.44
486	98,981.44	1,607,859.44
487	98,999.44	1,607,674.44
488	98,381.44	1,607,568.44
489	98,373.44	1,607,375.44
490	98,563.44	1,607,367.44
491	98,571.44	1,607,557.44

NOTE:
DO NOT DISTURB
EXISTING POWER
POLES OR GUYS.
NO FILLING OR
EXCAVATION SHALL
OCCUR WITHIN 5'.

REFERENCE DRAWING EP-3880-23 SHEET REFC2

ISSUED FOR CONSTRUCTION 4/5/84



Whitacre Engineers, Inc.
Consulting Engineering & Land Planning
2124 SO. W STREET P.O. BOX 5477
TACOMA, WASHINGTON 98405 (206) 272-5144



MARK	REVISION	BY	APP.	DATE
	ISSUE FOR CONSTRUCTION	J.T.P.		4-5-84
	REVISED GRADES; CHANGE COORDS.	J.T.P.		4-5-84

DRAWN: RMT DATE: 12-27-83 CHECKED: J.T.P. DATE: 12-27-83 CHECKED: J.T.P. DATE: 12/29/83 CONT. NO. 550		PORT OF TACOMA TACOMA TERMINALS, INC. C.F.S. AREA EARTHWORK PLAN	
FIELD BOOK (S) APPROVED: [Signature] DATE: 12/29/83		SCALE: NOTED DRAWING NO. EP-3865-23-C2 SHEET 4 OF 9	



NOTE:
DO NOT DISTURB EXISTING POWER
POLES OR GUYS. NO FILLING OR
EXCAVATION SHALL OCCUR WITHIN 5'.

REFERENCE DRAWING EP-3880-23 SHEET REFC3

ISSUED FOR CONSTRUCTION 4/5/84



Whitacre Engineers, Inc.
Consulting Engineering & Land Planning
2124 SO. "K" STREET P.O. BOX 5877
TACOMA, WASHINGTON 98405 (206) 272-5144



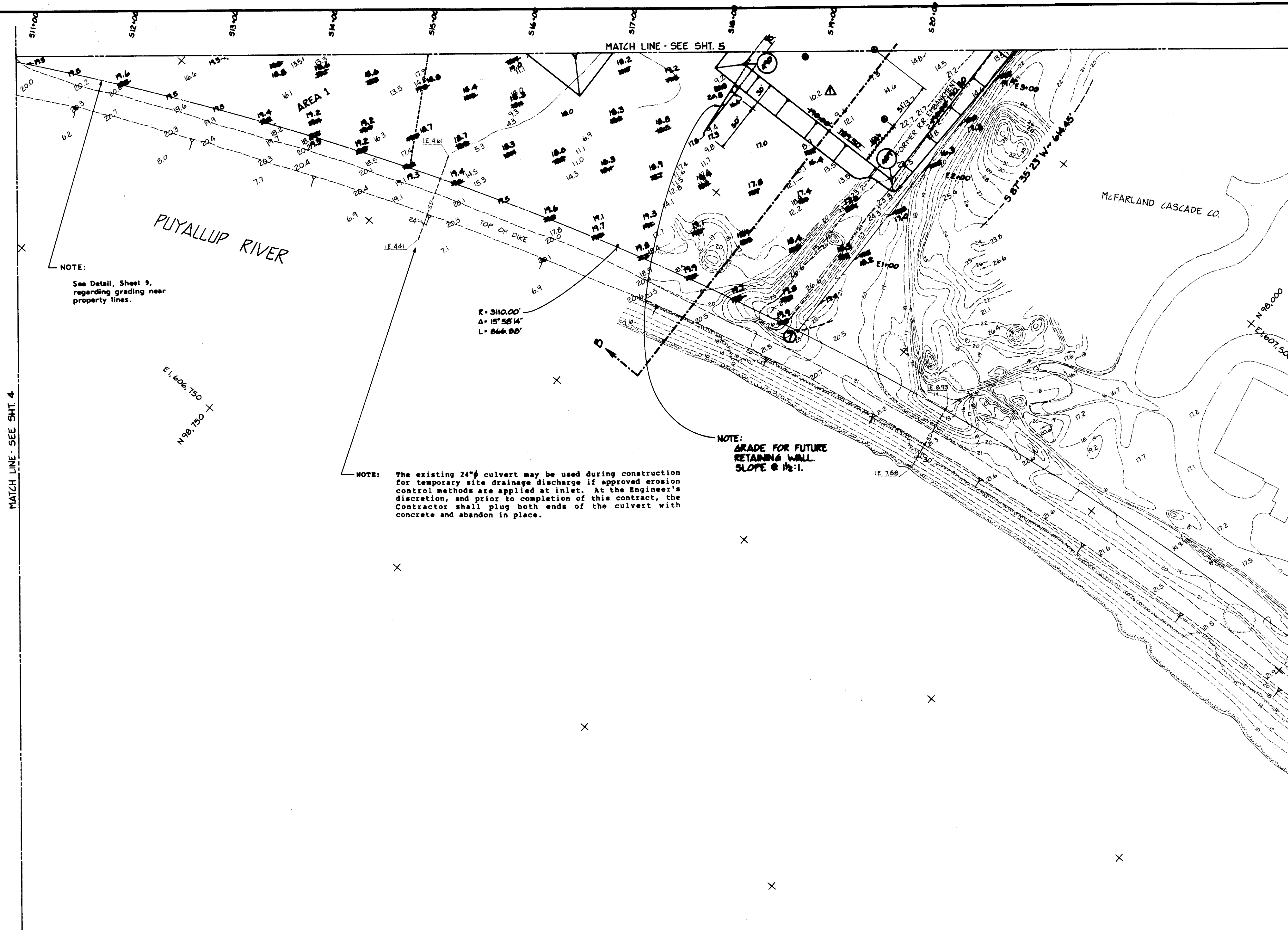
ISSUE FOR CONSTRUCTION		DATE	BY	APP.	DATE
REVISED GRADES: PRELOAD PFL		12-27-83	EP	EP	4-5-84
REVISION		DATE	BY	APP.	DATE

DRAWN	RM
DATE	12-27-83
CHECKED	J.P.
DATE	12-27-83
CHECKED	EP
DATE	12-27-83
CONT. NO.	150

PORT OF TACOMA **TACOMA TERMINALS, INC.** **C.F.S. AREA EARTHWORK** **PLAN**

FIELD BOOK (S)	APPROVED	DATE	SCALE	NOTED
		12/29/83		
DRAWING NO.				EP-3865-23-C3
SHEET				5 OF 9

MATCH LINE - SEE SHT. 4



NOTE:
See Detail, Sheet 9,
regarding grading near
property lines.

NOTE: The existing 24" culvert may be used during construction for temporary site drainage discharge if approved erosion control methods are applied at inlet. At the Engineer's discretion, and prior to completion of this contract, the Contractor shall plug both ends of the culvert with concrete and abandon in place.

NOTE:
GRADE FOR FUTURE
RETAINING WALL.
SLOPE @ 1 1/2:1.

R = 3110.00'
Δ = 15° 55' 14"
L = 866.88'

50 0 50 100 150
SCALE IN FEET

REFERENCE DRAWING EP-3880-23 SHEET REFC4

ISSUED FOR CONSTRUCTION 4/5/84



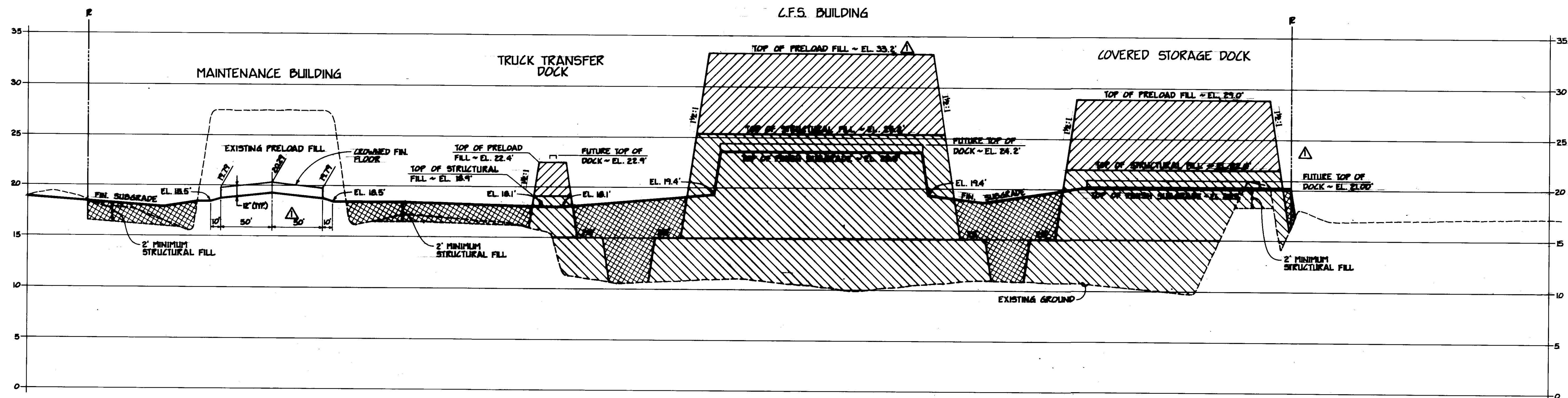
Whitacre Engineers, Inc.
Consulting Engineering & Land Planning
2124 SO. "K" STREET P.O. BOX 5877
TACOMA, WASHINGTON 98406 (206) 272-5144



MARK	REVISION	BY	APP.	DATE
	ISSUE FOR CONSTRUCTION	J.P.		4-5-84
	REVISED GRADES; FIELAND D.M.	J.P.		4-8-84

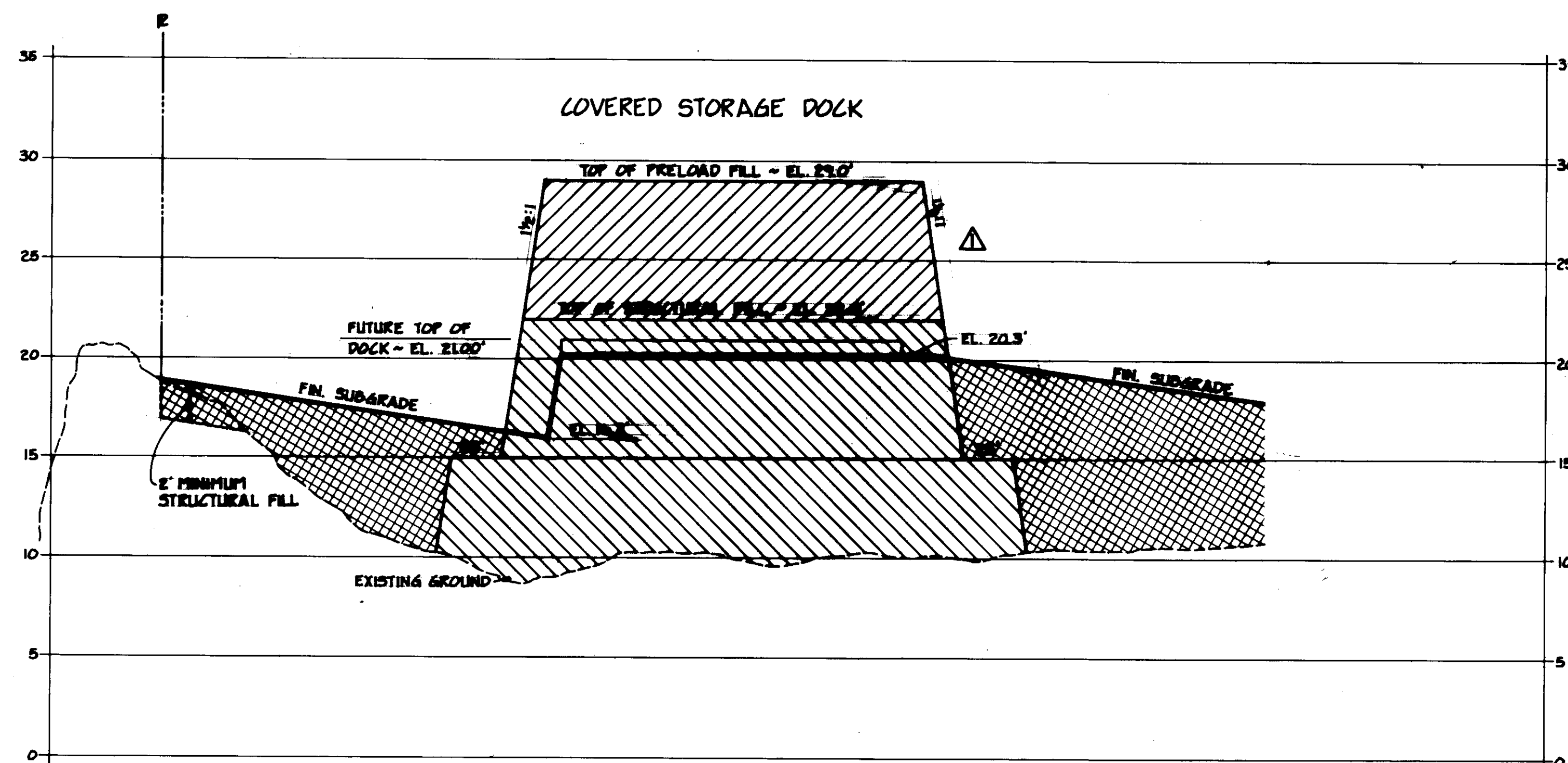
DRAWN DATE 12-27-83		PORT OF TACOMA	
CHECKED J.T.P. DATE 12-27-83		TACOMA TERMINALS, INC.	
CHECKED DATE		C.F.S. AREA EARTHWORK	
CONT. NO. 380		PLAN	
FIELD BOOK (S)		SCALE NOTED	
APPROVED DATE 12/29/83		DRAWING NO. EP-3865-23-C4	
		SHEET 6 OF 9	

NOTE:
 ACTUAL TOP OF PRELOAD ELEVATIONS
 SHALL BE ADJUSTED BASED UPON
 DENSITY OF PRELOAD MATERIAL AND
 SHALL FIRST BE APPROVED BY THE
 ENGINEER.



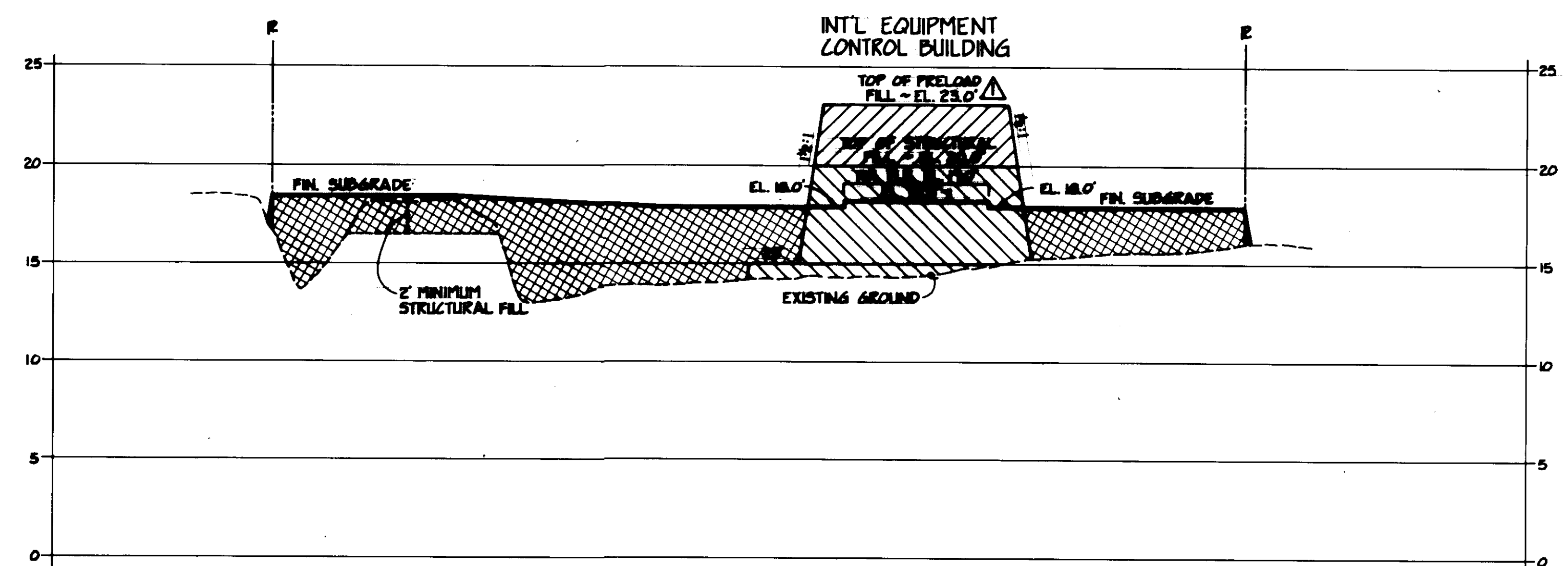
SECTION A-A

HORIZ. SCALE - 1" = 50'
 VERT. SCALE - 1" = 5'



SECTION B-B

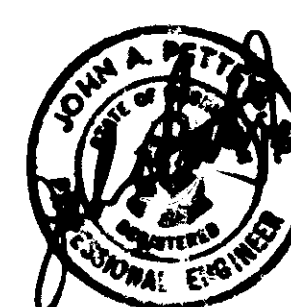
HORIZ. SCALE - 1" = 50'
 VERT. SCALE - 1" = 5'



SECTION C-C

HORIZ. SCALE - 1" = 50'
 VERT. SCALE - 1" = 5'

STRUCTURAL FILL
 PRELOAD FILL
 PRELOAD FILL RE-Spread AS STRUCTURAL FILL AND/OR ADDITIONAL IMPORTED STRUCTURAL FILL



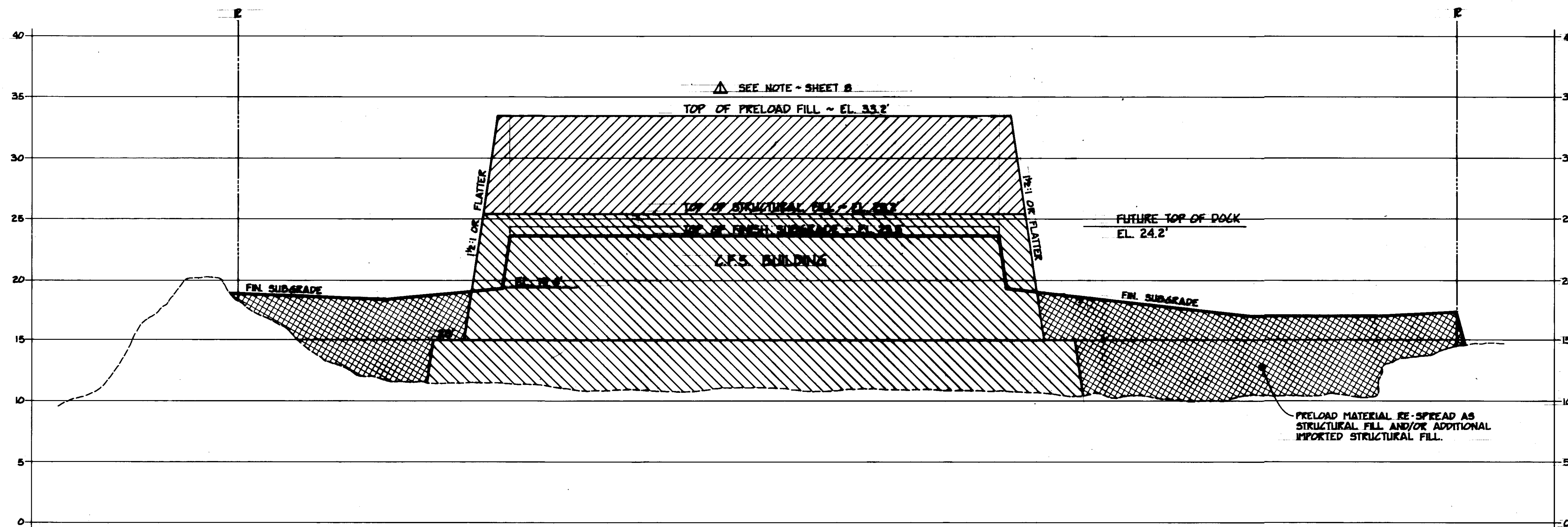
Whitcomb Engineers, Inc.
 Consulting Engineering & Land Planning
 201 2nd St. SE, Suite 200
 Tacoma, Washington 98402

ISSUE FOR CONSTRUCTION	12/27/83	4-5-84
REVISOR	12/27/83	4-5-84
REVISION	BY	APP. DATE

DRAWN: RBT
 DATE: 12-27-83
 CHECKED: J.T.P.
 DATE: 12-27-83
 CHECKED: [Signature]
 DATE: 1/1/84
 CONT. NO.: 550

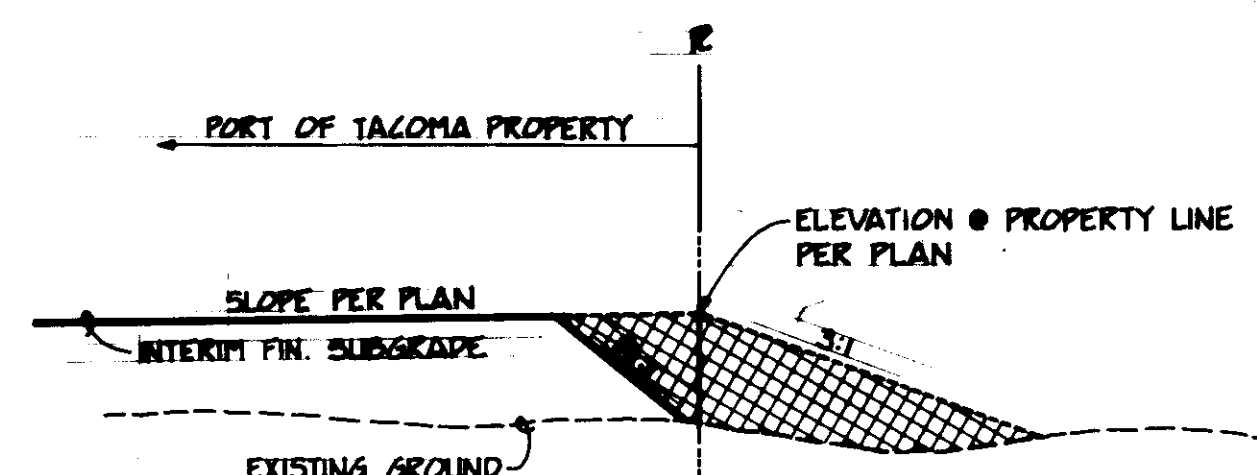
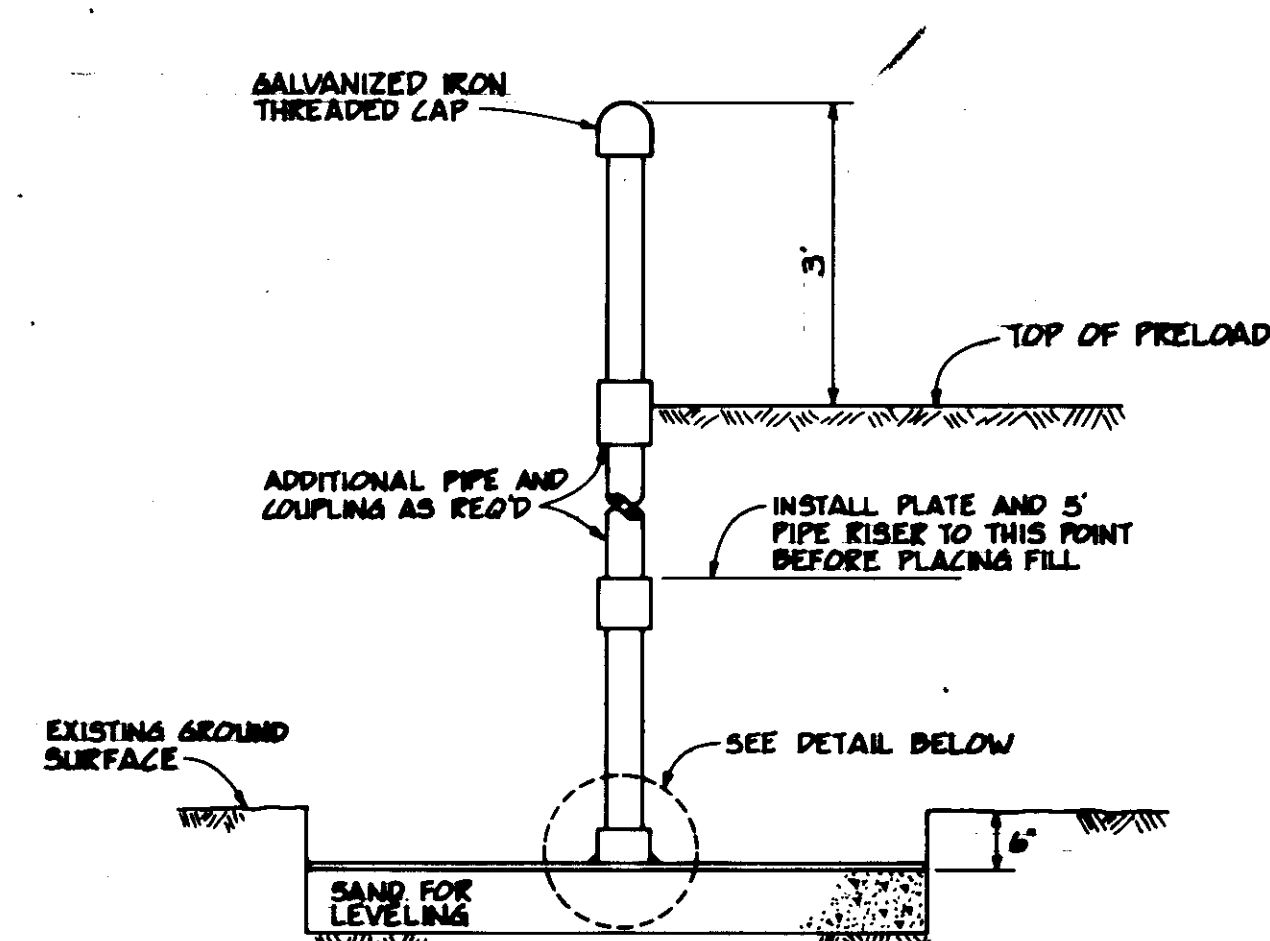
PORT OF TACOMA
TACOMA TERMINALS, INC.
C.F.S. AREA EARTHWORK
TYPICAL SECTIONS

FIELD BOOK (S)	SCALE	NOTED
APPROVED: [Signature]	12/27/83	DRAWING NO. EP-3865-23-46
SHEET 8 OF 9		



SECTION D-D

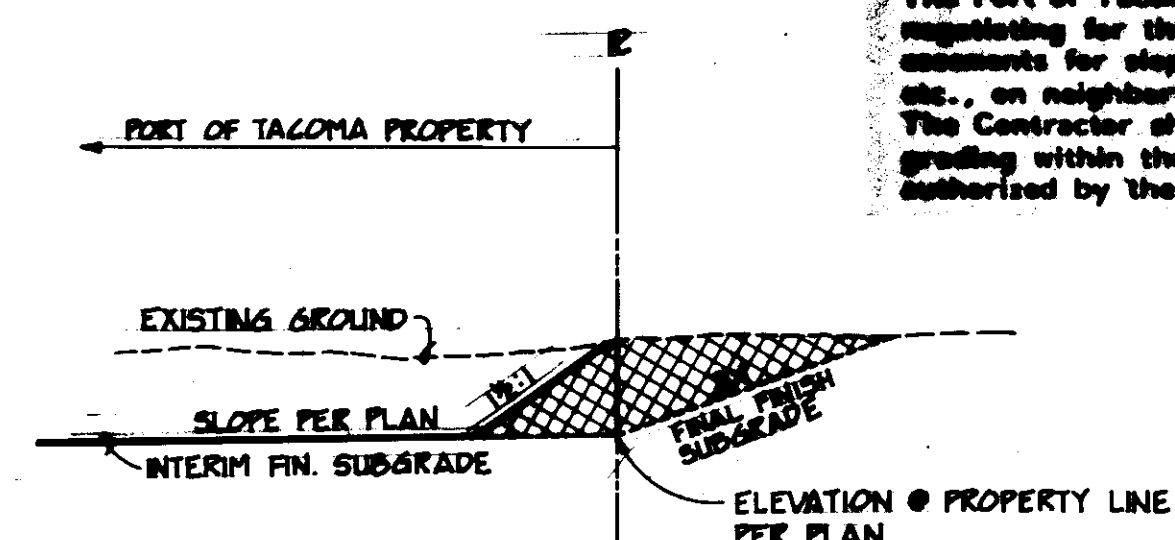
HORIZ. SCALE - 1" = 50'
VERT. SCALE - 1" = 5'



FILL SECTION

NOTE:
The Port of Tacoma is currently negotiating for the appropriate easements for slopes, drainage, etc., on neighboring properties. The Contractor shall withhold grading within these areas until authorized by the Engineer.

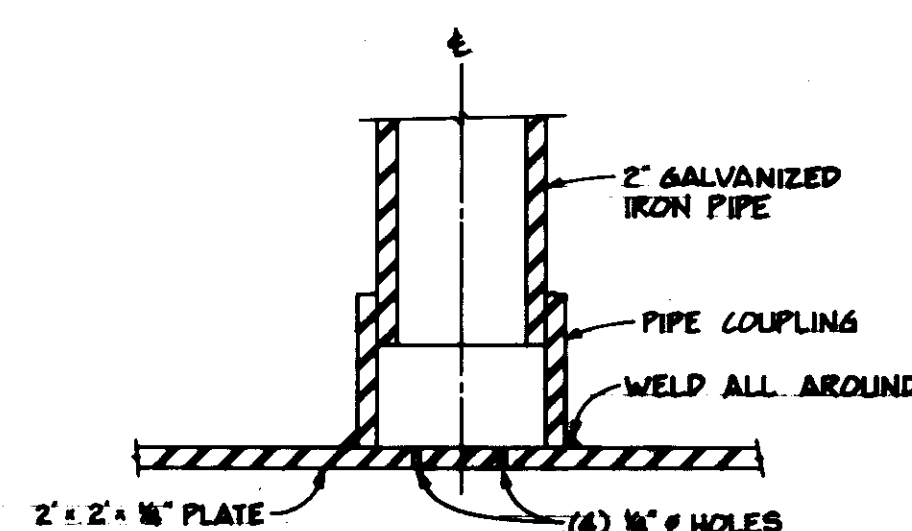
This authorization will be provided no later than (90+1) days following the date of award of this contract, or the work shall be delayed from the contract by modification (refer to the Supplementary/Special Conditions for a definition of "(+)").



CUT SECTION

DETAIL ~ INTERIM GRADING NEAR PROPERTY LINES

N.T.S.



SETTLEMENT PLATE INSTALLATION

N.T.S.

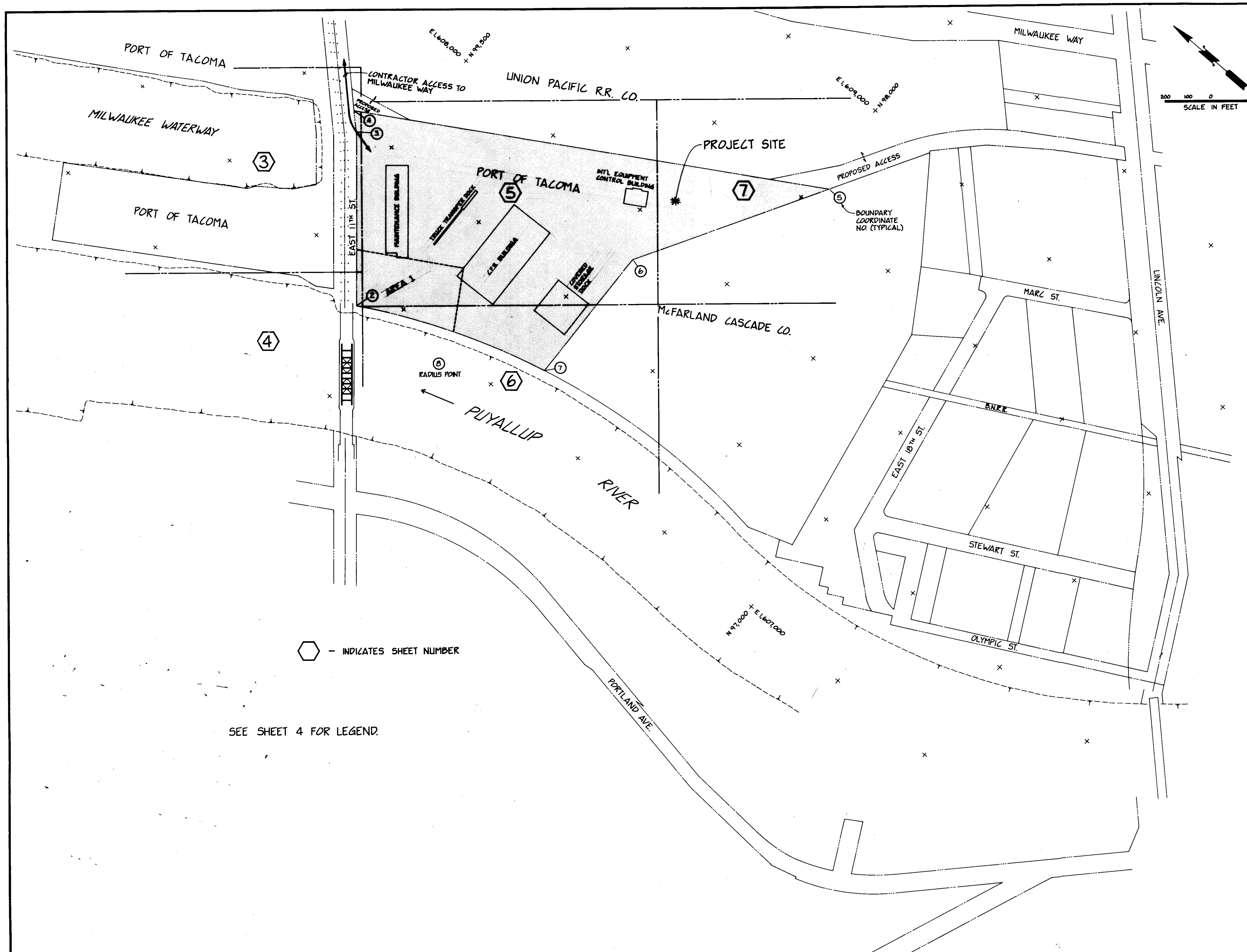


ISSUED FOR CONSTRUCTION 4/5/84

Whitcomb Engineers, Inc.
Consulting Engineering & Land Planning
2000 1st St. SE, Suite 200
Tacoma, Washington 98402

REVISION	BY	APP.	DATE
1	JAP		4-5-84
2	JAP		4-5-84

DRAWN: JAP DATE: 12-27-83		PORT OF TACOMA TACOMA TERMINALS, INC. C.F.S. AREA EARTHWORK TYPICAL SECTIONS & DETAILS	
CHECKED: JAP DATE: 12-27-83		FIELD BOOK NO. 550	
CHECKED: JAP DATE: 12-27-83		SCALE: NOTED	
APPROVED: [Signature] DATE: 4-5-84		DRAWING NO. EP-3865-23-C7	
SHEET 9 OF 9		SHEET 9 OF 9	



GENERAL NOTES

- Vertical datum for this project is Mean Lower Low Water (M.L.L.W.) as established by the Port of Tacoma.
- Existing ground elevations shown on these drawings were obtained from the following:
 - Field topographic surveys prepared by the Port of Tacoma.
 - Aerial topographic surveys prepared by Aerial Mapping Co., Boise Idaho, for Whitacre Engineers in July 1983.
 - Miscellaneous field topographic surveys to augment (a) and (b) above by Whitacre Engineers in November 1983.
- The locations of underground utilities shown within the limits of this project are approximate and were obtained from available records. The actual existence of these utilities is unknown. Depths are unknown.
- The general sequence of construction activities is as follows:
 - Perform required clearing, grubbing, stripping, excavation, etc.
 - Place structural fill material to a minimum elevation of 15 feet (M.L.L.W.), as specified. The westerly portion of the existing Maintenance Building preload may be utilized.
 - Place structural and preload fill to specified lines and grades for C.F.S. Building.
 - Perform Item (c) above for all other buildings to be preloaded.
 - Allow for settlement of filled areas to occur until the Engineer authorizes removal of preload fill material. During this time, other activities may take place:
 - Demolition and removal of buried utilities, slabs, etc.
 - Spread easterly portion of the existing Maintenance building preload into Area 1 and other areas as required.
 - Additional importing and placement of structural fill material outside of the building areas may occur if the contractor anticipates that this additional material will be required to complete site grading after the preload fill material is re-spread as structural fill.
 - Remove preload fill material and re-spread onsite as structural fill to complete site subgrade preparation for C.F.S. Building and 50 feet outside thereof.
 - Perform Item (f) above for all other preloaded building areas.
 - Complete all other site grading as specified.
- The boundary of the project site, and the limits of work (excluding easements for slopes, ditches, etc.) are defined by the following coordinates:

Coordinate No.	Northing	Easting
2	99,148.74	1,606,877.52
3	99,633.87	1,607,445.11
4	99,789.30	1,607,517.69
5	97,917.31	1,608,683.85
6	98,371.71	1,607,810.86
7	98,345.87	1,607,196.95
8	97,608.74	1,604,175.57
- Prior to commencement of construction, the Contractor shall provide the Engineer a plan for site access (haul routes, etc.) for review and approval. Consideration must be made in this plan for protection of utilities, structures, neighboring properties, waterways, and public right-of-ways.
- If the Contractor chooses a water route for fill importation, the Milwaukee Waterway will be the designated delivery point. The Contractor is advised that cargo handling in this area is under the jurisdiction of I.L.W.U. Local No. 23 and should contact the business agent.

SEE SHEET 4 FOR LEGEND.

ISSUED FOR CONSTRUCTION 4/5/84



Whitacre Engineers, Inc.
Consulting Engineering & Land Planning
2204 SO. N. STREET, P.O. BOX 1077
TACOMA, WASHINGTON 98402 (206) 272-2044

MARK	REVISION	BY	APP.	DATE
	ISSUE FOR CONSTRUCTION	J.P.		4-5-84

DRAWN: RMT		PORT OF TACOMA	
DATE: 12-27-83		TACOMA TERMINALS, INC.	
CHECKED: J.T.P.		C.F.S. AREA EARTHWORK	
DATE: 12-27-83		SITE PLAN & GENERAL NOTES	
CHECKED: [Signature]			
DATE: 4/5/84			
CONT. NO.: 550			
FIELD BOOK (S)		SCALE: NOTED	
APPROVED: [Signature]		DRAWING NO.	
DATE: 12/29/83		EP-3865-23-61	
DATE: 4/5/84		SHEET 2 OF 9	