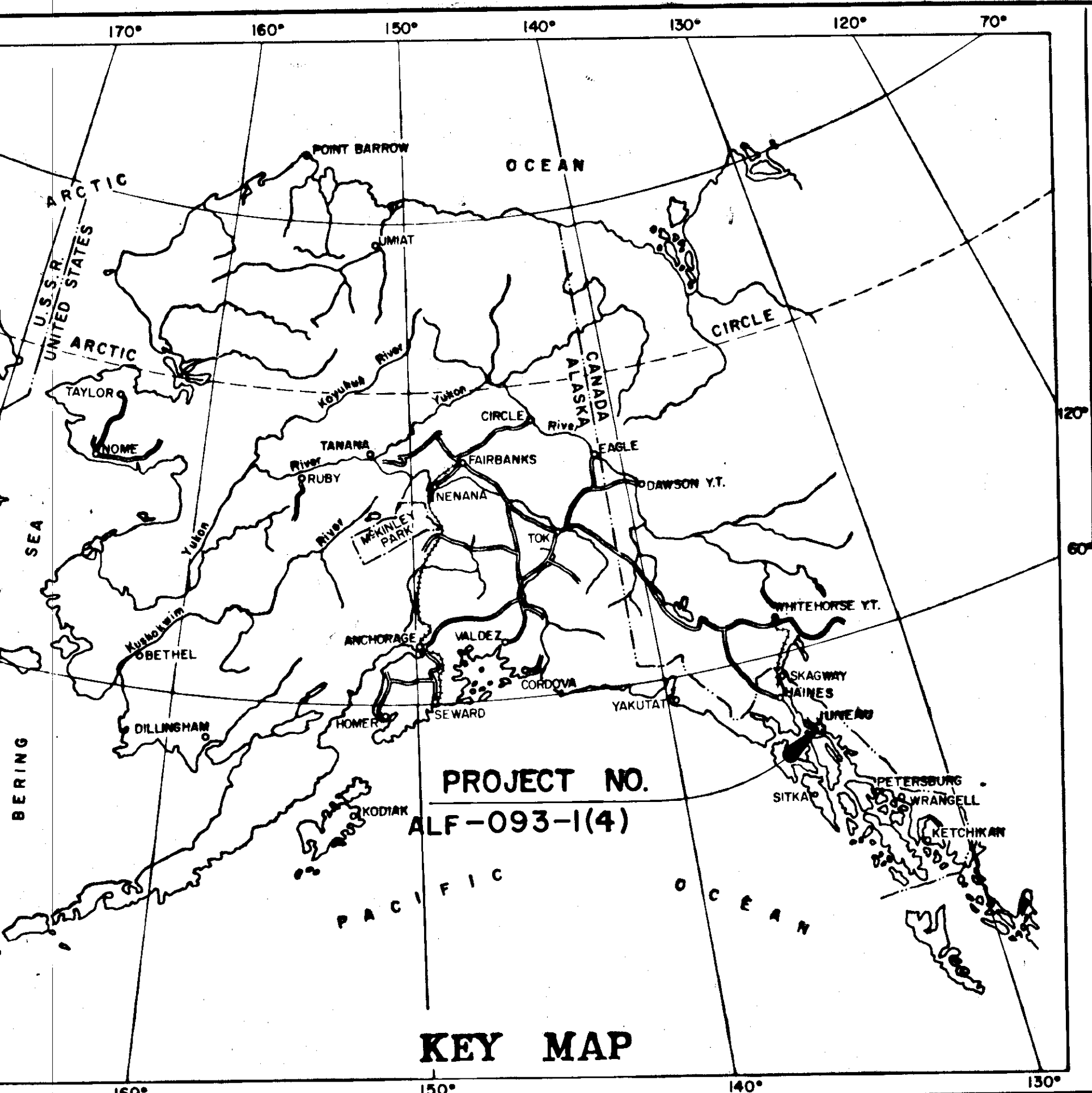




STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

PLAN AND PROFILE
PROPOSED HIGHWAY PROJECT
ALF-093-1(4)
JUNEAU OUTER DRIVE PHASE III
MAIN STREET to FRANKLIN
&
JUNEAU MAIN STREET
GRADING, DRAINAGE, PAVING
ILLUMINATION & SIGNALIZATION

"AS-BUILT PLANS"

SERVICE ELECTRIC CO., INC. AND
RED-SAMM MINING CO., INC., J/V

PROJECT ENGR: GARY GERLITZ

BEGINNING OF PROJECT: 5/01/75
COMPLETION OF PROJECT:

STATE	ROUTE DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ALF-093-1(4)	1973	1	82

INDEX OF SHEETS

SHEET NUMBER	DESCRIPTION
OUTER DRIVE PHASE III	
1	TITLE SHEET
2	TYPICAL SECTIONS
3-5	ESTIMATE OF QUANTITIES (Both Projects)
6	SUMMARY TABLES
7 & 8	PLAN & PROFILE SHEETS
9	INTERSECTION DETAILS & DRAINAGE PROFILES
10 & 11	WATER & SEWER PLANS
12	UTILITY DETAILS
13 & 14	RETAINING WALL DETAILS
15-17	SIGNING & ILLUMINATION PLANS
18	SIGNALIZATION PLANS
MAIN STREET	
19	TYPICAL SECTION
20	SUMMARY TABLES
21 & 22	PLAN & PROFILE SHEETS
23 & 24	INTERSECTION DETAILS
25	DRAINAGE PROFILES
26 & 27	WATER & SEWER PLANS
28 & 29	SIGNING & ILLUMINATION
30-82	UTILITY PLANS (Power & Telephone)

OUTER DRIVE PHASE III DESIGN DESIGNATION	MAIN STREET DESIGN DESIGNATION
ADT(1972) = 8880	ADT(1972) = 4970
ADT(1992) = 16,055	ADT(1992) = 8980
DHV(10%) = 1,606	DHV(10%) = 900
D = 35-65	D = 45-55
T = 4%	T = 4%
V = 35 MPH	V = 25 MPH

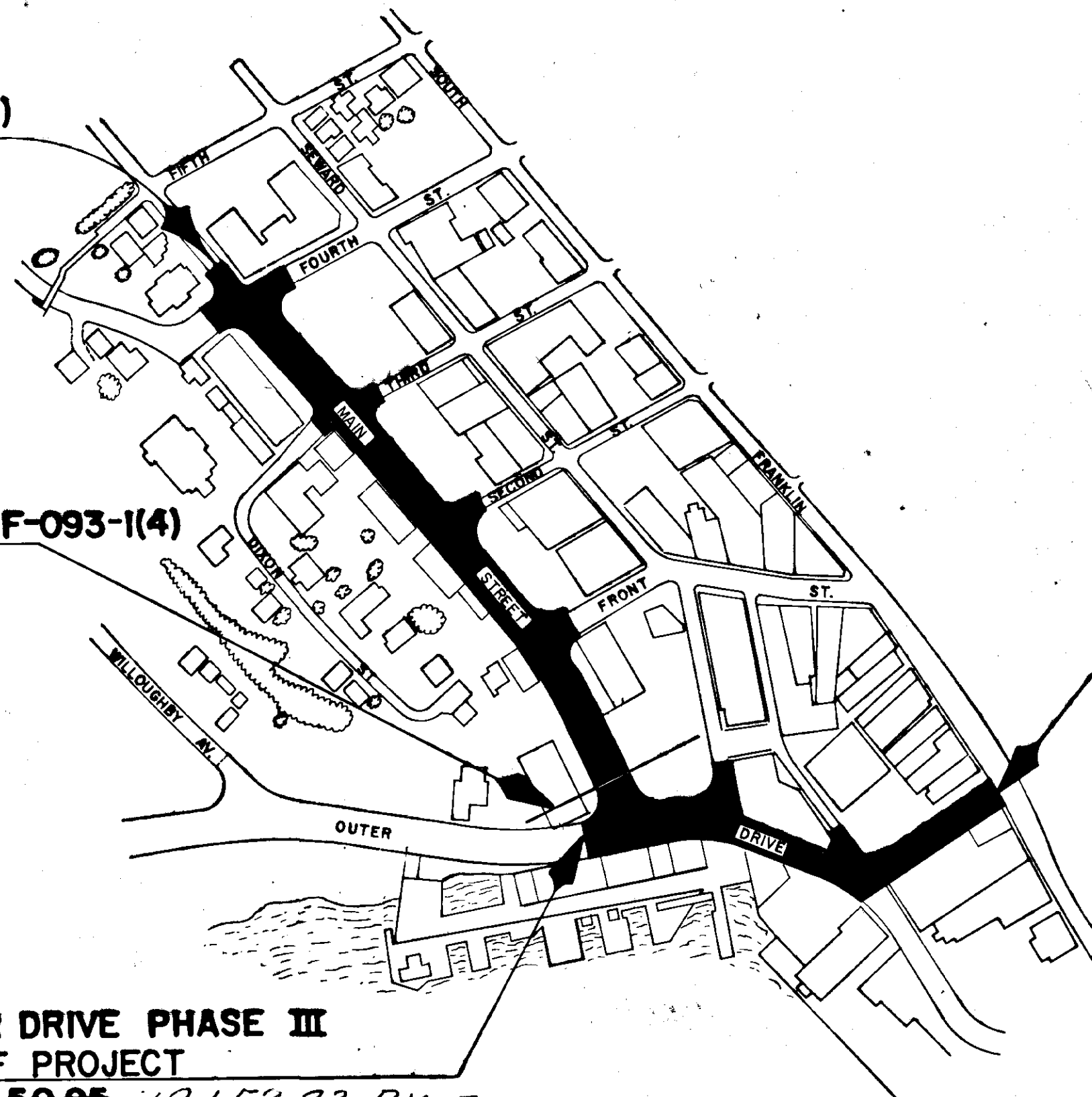
PROJECT SUMMARYS	
OUTER DRIVE PHASE III	MAIN STREET
WIDTH of ROADBED = VARIES 39' to 50'	58'
WIDTH of PAVEMENT = VARIES 34' to 45'	44'
LENGTH of GRADING = 687.45' = 0.130 Mi.	1,000.00' = 0.189 Mi.
LENGTH of PAVING = 687.45' = 0.130 Mi.	1,000.00' = 0.189 Mi.
LENGTH of PROJECT = 687.45' = 0.130 Mi.	1,000.00' = 0.189 Mi.

NO CHANGE IN LENGTH

MAIN STREET
END OF PROJECT F-093-1(4)
STA. "E" 21+00.00

MAIN STREET
BEGINNING OF PROJECT F-093-1(4)
STA. "E" 11+00.00

OUTER DRIVE PHASE III
BEGINNING OF PROJECT
STA. "O" 78+50.95 18+52.83 BK. =
STA. "O" 78+52.52 AH.



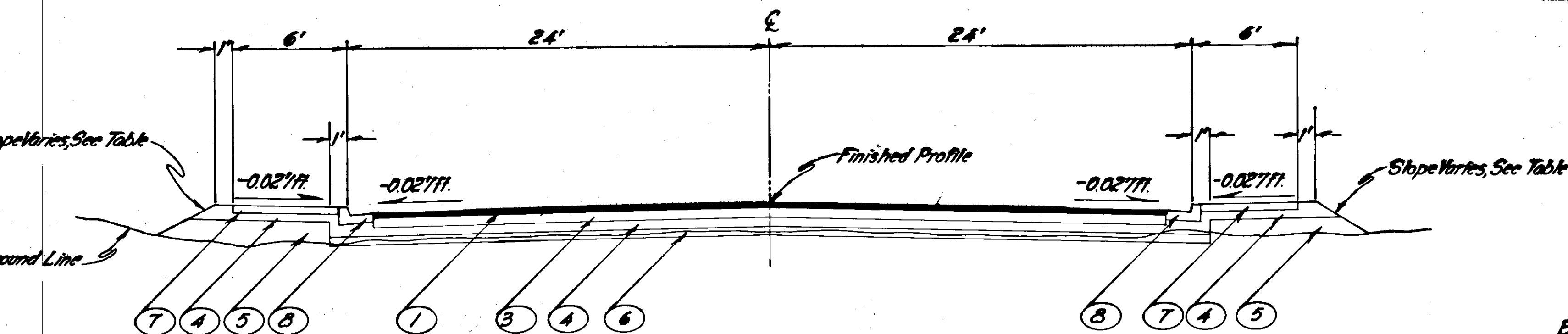
OUTER DRIVE PHASE III
END OF PROJECT
STA. "O" 85+38.40

THE FOLLOWING STANDARD DRAWINGS APPLY TO
THIS PROJECT: A-1, C-00.00, C-10.00, C-11.00,
D-02.00, D-20.00, D-24.00, I-40.00, I-80.00,
L-03.00, L-14.00, L-20.00, L-23.00, L-30.00,
M-16.00, S-00.00, S-05.00, S-20.00, S-21.00,
S-30.00, S-34.00, T-20.00, T-21.00,
T-22.00, T-30.00, T-31.00, T-32.00,
T-34.00, T-40.00, T-50.00, U-03.00.

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

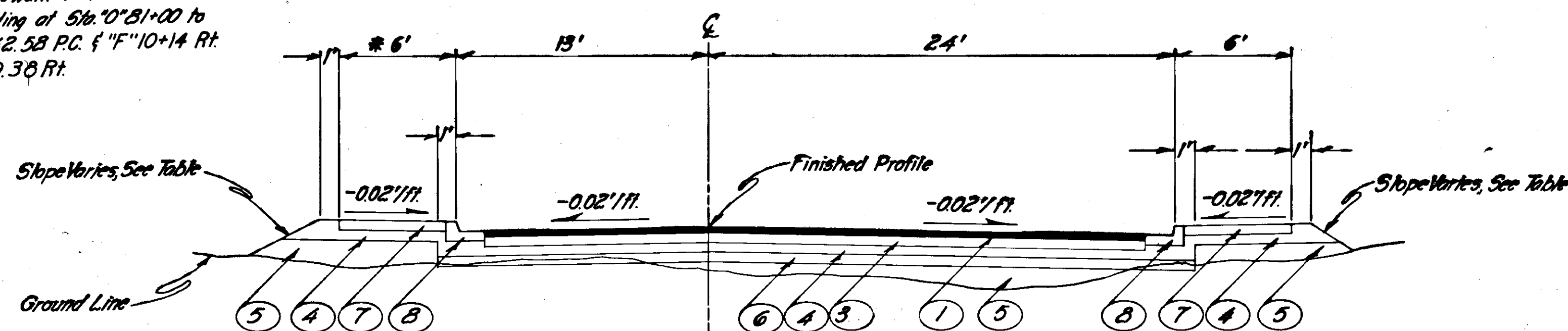
APPROVED: [Signature] Date 11/26/73
SOUTHEASTERN DISTRICT ENGINEER.

APPROVED: [Signature] Date 11/5/73
COMMISSIONER OF HIGHWAYS.



TYPICAL SECTION OF IMPROVEMENT
 STA. "0" 78+50.95 to STA. "0" 80+66.08
 STA. "0" 82+70.00 to STA. "0" 85+38.40 E.O.P.

* Width of sidewalk varies to match existing building at Sta. "0" 81+00 to Sta. "0" 82+42.58 P.C. & "F" 10+14 Rt. to "F" 10+89.38 Rt.



TYPICAL SECTION OF IMPROVEMENT
 STA. "0" 80+66.08 to STA. "0" 82+70.00

LABELING INDEX

- 1 3" Hot Asphalt Pavement (Two - 1 1/2" Courses)
- 2 Deleted
- 3 6" Crushed Aggregate Base, Grading D-1
- 4 6" Subbase, Grading A
- 5 Borrow and/or Usable Unclassified Excavation
- 6 6" Minimum Selected Material
- 7 4" Concrete Sidewalk
- 8 Curb and Gutter Barrier Type

TABLE OF SLOPES

Station	Cut Slope	Fill Slope	
		Left	Right
"0" 78+50.95			
"0" 80+75	3:1	2:1	*
"0" 83+00	3:1	*	*
"0" 85+38.40	3:1	2:1	*

* Abutting Bldg.

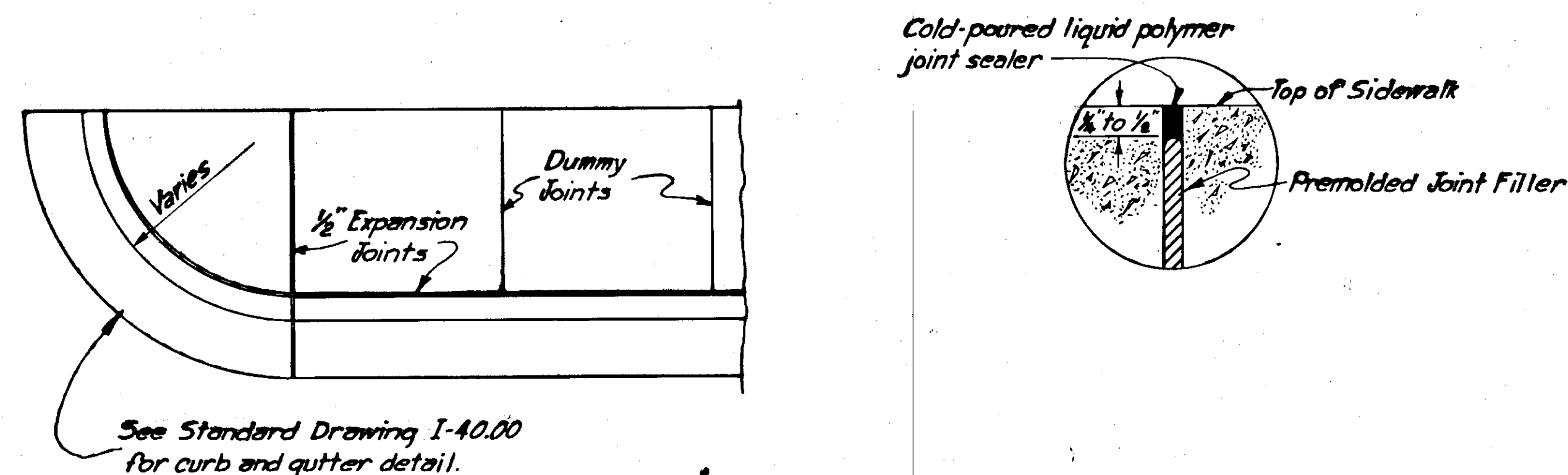
SUPERELEVATION TABLE

Station	Lt. Lane Slope	Rt. Lane Slope
"0" 78+40.00	-2%	-2%
"0" 79+10.00	0%	0%
"0" 79+10.31	0%	0%
"0" 80+19.67	+3%	-3%
"0" 80+75.00	+3%	-3%
"0" 81+78.35	0%	0%
"0" 82+83.66	-2-3%	+2-3%
"0" 82+99.35	-2-3%	+2-3%
"0" 84+32.58	-2%	-2%
"0" 85+38.40	0%	0%

CURB CUT TABLE

Station	Side	Width
"E" 10+83.25	Rt.	18'
"0" 79+89.00	Rt.	18'
"0" 80+56.00	Rt.	18'21.4'
"0" 81+00.00	Rt.	18'24'
"0" 81+76.50	Lt.	60'61.6'
"0" 82+19.00	Rt.	18'24.3'
"0" 84+99.00	Lt.	18'24.0'

TYPICAL EXPANSION & CONTRACTION JOINT DETAILS

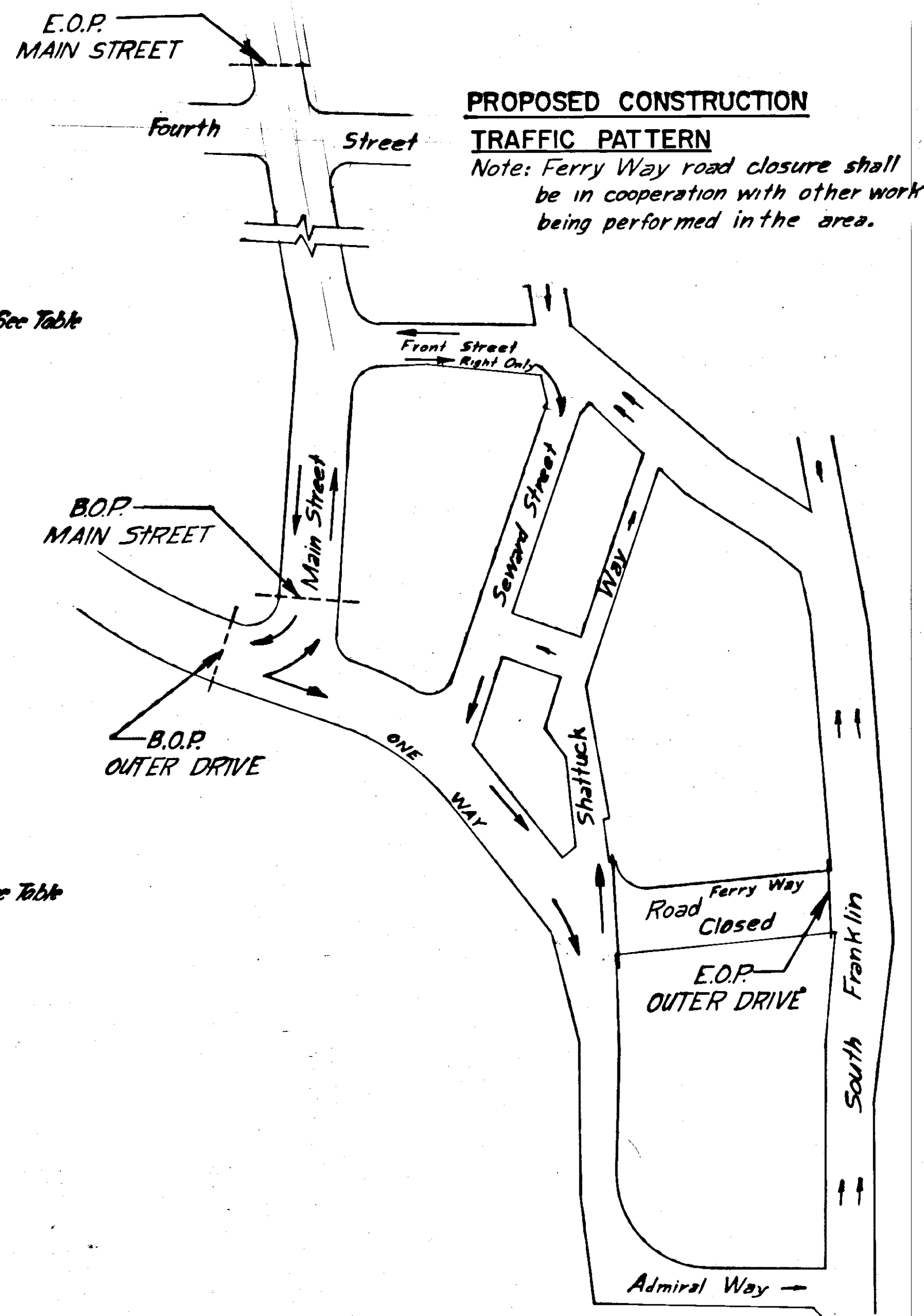


CURB & SIDEWALK

TYPICAL SECTIONS

GENERAL NOTES

- Grades and alignment as shown are subject to minor revisions. Storm inlet locations and culvert pipe lengths and locations are subject to minor revisions.
- All encroaching buildings, trailers within the right-of-way will be removed by others prior to the start of construction.
- Miscellaneous and minor right-of-way encroachments such as fences, retaining walls, and abandoned foundations, shall be removed as directed by the engineer and paid for under removal of Structures and Obstructions, Item 202(1). Abandoned foundations and retaining walls shall be removed to a minimum depth of 2' below the roadway subbase.
- A butt-type joint shall be used to match new with existing pavement and sidewalk at locations shown on the plans.
- Premolded expansion joint filler and liquid polymer joint sealer will be considered incidental to other items of work and no separate payment shall be made therefore.
- 1/2" transverse expansion joints shall be at the end of curb returns and immediately following and preceding curb cuts in the curb and gutter.
- Expansion joints in sidewalks shall be opposite expansion joints in adjoining curb and gutter. Premolded 1/2" expansion joint material shall be placed longitudinally where sidewalk abuts building or other structures. Dummy cuts shall be at uniform intervals of 6' except where shorter sections are necessary for closure.
- Existing water meters within construction limits will be removed by others.
- Existing active sewer and water laterals not shown on the plans shall be field connected to proposed sewer and water mains as directed by the engineer.
- Storm drain joints shall have watertight connections where Asbestos Cement Pipe connects with Corrugated Aluminum Pipe.



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	NO.
ALASKA	F-093-1(4)	1973	3	8

ESTIMATE OF QUANTITIES

ITEM NO	ITEM	UNIT	7	8	10	11	Subtotal	21	22	26	27	Subtotal	Roadway
110 (1)	Mobilization	Lump Sum											
111 (1)	Temporary Erosion and Pollution Control	Cont. Sum											
112 (1)	Training Program IWA, FHWA Order Interim 7-2(2)	Cont. Sum											
113 (1)	Flagging	Man Hour											580.5
202 (1)	Removal of Structures and Obstructions	Lump Sum											
202 (2)	Removal of Pavement	Sq. Yd.	720	721				1824	2339				7269.5
202 (3)	Removal of Sidewalk	Sq. Yd.	409	96				613	565				1895
202 (5)	Removal of Manholes	Each											
202 (7)	Removal of Inlets	Each	9	5				7	5				24
203 (3)	Unclassified Excavation	Cu. Yd.	823	830				1482	2136				5505
203 (5b)	Borrow	Ton											
206 (1)	Class I Excavation for Structures	Cu. Yd.	235	235				223	1896				2004
301 (1)	Crushed Aggregate Base Course, Grading D-1	Ton	747	628				888	949				3284
304 (1)	Subbase, Grading A	Ton	1736	1366				1157	1199				6049
401 (1)	Hot Asphalt Pavement	Ton	504	425				599	641				2169
401 (2)	A R-20 Asphaltic Cement	Ton	37	31				44	48				117.78
401 (5)	Emission Control Equipment	Lump Sum											
501 (1)	Class "A" Concrete	Lump Sum											
501 (1)	Reinforcing Steel	Lump Sum											
603 (13e)	18" Corrugated Aluminum Pipe	Linear Ft.	226	226				160	590				377
603 (22e)	18" Pipe Conduit	Linear Ft.	24	222				1308	718				1554
604 (1)	Storm Sewer Manhole	Each	1					2	2				3
604 (2)	Sanitary Sewer Manhole	Each						2	3				5
604 (3)	Reconstruct Existing Manhole	Each											1
604 (4)	Adjust Existing Manhole	Each											12
604 (5a)	Inlets, Type A	Each	1					4	8				16
604 (5b)	Inlets, Type B	Each	3					3	1				7
604 (7)	Adjust Cleanouts	Each											2
608 (1a)	Concrete Sidewalk, 4" Depth	Sq. Yd.	494	263				284	508				1648.1
608 (1b)	Concrete Sidewalk, 6" Depth	Sq. Yd.	81	81				8	8				109.2
609 (2)	Curb and Gutter, Barrier	Linear Ft.	890	605				1066	1144				3801
614 (1)	Survey Monument	Each	7	3				1	3				14
614 (2)	Monument Cases	Each	10	10				2	4				16
621 (2)	Furnishing & Planting Shrubs	Each	7	3				27	55				82
615 (1)	Standard Signs	Sq. Ft.	6713	143.29				86.41	105.12				401.95
618 (1)	Seeding	M. S. Ft.						1.6	9.7				11.3
618 (2)	Water For Maintenance	M. S. Ft.						1	1				1
620 (1)	Topsoil	M. S. Ft.						2	7				9
626 (1a)	4" Asbestos Cement Sewer Conduit	Linear Ft.						146	20				166
626 (1b)	6" Asbestos Cement Sewer Conduit	Linear Ft.							22				36
626 (1c)	8" Asbestos Cement Sewer Conduit	Linear Ft.							83				83
626 (1d)	10" Asbestos Cement Sewer Conduit	Linear Ft.							20				20
626 (1e)	12" Asbestos Cement Sewer Conduit	Linear Ft.							212				615
626 (2a)	4" Cast Iron Sewer Conduit	Linear Ft.							142				214
626 (2b)	6" Cast Iron Sewer Conduit	Linear Ft.							18				18
626 (2c)	8" Cast Iron Sewer Conduit	Linear Ft.							45				45
626 (2d)	10" Cast Iron Sewer Conduit	Linear Ft.							85				97
626 (2e)	12" Cast Iron Sewer Conduit	Linear Ft.							40				40
626 (2f)	15" Cast Iron Sewer Conduit	Linear Ft.											
626 (2g)	18" Cast Iron Sewer Conduit	Linear Ft.											
626 (2h)	30" Cast Iron Sewer Conduit	Linear Ft.											
627 (1)	Watering	M. Gal.											26
628 (2b)	6" Ductile Iron Water Conduit	Linear Ft.							24				24
628 (2c)	8" Ductile Iron Water Conduit	Linear Ft.							33				33
628 (2d)	10" Ductile Iron Water Conduit	Linear Ft.							487				487
628 (6)	Fire Hydrant Installation	Each							1				1
628 (8)	Fire Hydrant Removal	Each							2				2
628 (9)	Water Service Connection	Each							1				1
628 (11)	Adjustment of Valve Box	Each							7				7
628 (1)	Traffic Signal System Complete	Lump Sum											
660 (1)	Traffic Signal System Complete	Lump Sum											
660 (3)	Highway Lighting System Complete	Lump Sum											
670 (1)	Painted Traffic Markings	Lump Sum											

SHEET NUMBERS

Outer Drive Phase III

Main Street

STATE			
ALASKA			
F-093-1(4)			
YEAR	PROJECT DESIGNATION	SHEET NO.	
5			

ITEM DESCRIPTION		UNIT																
		E-9	E-10	E-11	E-12	E-13	E-14	E-15	E-16	E-17	E-18	E-19	E-42	E-46	E-49	E-53	TOTAL	
684(4b)	UTILIWALK COVER WIDTH B																176	
684(4c)	BAFFLE POWER COMPARTMENT																40	
684(4a)	1-5" PLASTIC CONDUIT ENCASEMENT																288	
684(6a)	2-5" "																10	
684(6b)	4-5" "																160	
684(6c)	6-5" "																204	
684(6d)	8-5" "																68	
684(6e)	12-5" "																204	
684(6f)	2-3" "																87	
684(6g)	2-3" "																30	
684(6h)	4-3" 42-5" "																93	
684(7a)	112" RIGID STEEL CONDUIT																9	
684(7b)	2" "																330	
684(7c)	2 1/2" "																325	
684(7d)	3" "																80	
684(7e)	4" "																90	
684(7f)	5" "																285	
684(8a)	SWITCH UNIT 4A																210	
684(8b)	5" "																300	
684(8c)	6" "																179	
684(8d)	7" "																930	
684(8e)	8" "																300	
684(8f)	9" "																702	
684(8g)	10" "																300	
684(8h)	11" "																300	
684(9)	ADJUST MANHOLE FRAMES+COVERS																5	
604(2A)	DROP MANHOLE M-7																35	
605(2B)	6" PERFORATED PIPE FOR SWIO																ALL REQ'D	
626(1P)	4" ASBESTOS CEMENT CONDUIT																ALL REQ'D	
626(3)	LATERAL LOCATION																ALL REQ'D	
626(3F)	15" CONCRETE SEWER ENCASEMENT																ALL REQ'D	
628(2E)	ADJUST 10" WATERLINE																ALL REQ'D	
684(10)	3" PVC CONDUIT																ALL REQ'D	
109(1)	EXPLORATORY TRENCH																ALL REQ'D	
109(2)	EXCAVATION FOR 6" WATERLINE																ALL REQ'D	
109(3)	COASTAL ELLIS SHORING																ALL REQ'D	
109(4)	FIRE ALARM SYSTEM																ALL REQ'D	
109(5)	WOOD SIDEWALK																ALL REQ'D	
109(6)	TELEPHONE GROUND SYSTEM																ALL REQ'D	
109(7)	POWER POLE RELOCATION																ALL REQ'D	
109(8)	PHASE II REPAIRS																ALL REQ'D	
109(9)	5" STORM DRAIN																ALL REQ'D	
109(10)	MANHOLE COVERS																ALL REQ'D	
109(11)	ADDITIONAL SIGNING																ALL REQ'D	
109(12)	30" DI SEWER CONDUIT																ALL REQ'D	
109(13)	UTILIWALK CHANGES																ALL REQ'D	
109(14)	FIRE ALARM																ALL REQ'D	
609(3)	CURB+GUTTER, REIMBURSEMENT TO THE STATE																ALL REQ'D	

SUMMARY TABLES

ABBREVIATION TABLE

INSTALL SEWER SERVICE CONNECTIONS

BASIS OF ESTIMATE

REMOVAL OF INLETS & CATCH BASINS

Note: Plugging ends of leads to be incidental to removal of the inlet.

MONUMENT SUMMARY

INSTALL WATER MAINS

CAST IRON SEWER CONDUIT FOR WATER LINE CROSSING

* *Adjust Existing Service Connection.*

INSTALL SEWER MAINS

15" CONC. SEWER ENCASEMENT

Station	Offset	Lt./Rt.	Length	Size
"0" 79+35	0'		17'	15'

WATER MAIN APPURTENANCES

SEWER MAIN APPURTENANCES

Station	Offset	Lt./Rt.	Remarks
"0"79+27	0.5'	Lt.	Reconstruct M.H.
"0"80+07	16.5'	Rt.	Adjust M.H.
"0"80+65	14'	Lt.	Adjust M.H.
"0"80+81	17'	Rt.	Adjust M.H.
"0"80+91	1'	Lt.	Adjust M.H.
"0"80+94	10'	Rt.	Adjust 2 M.H. on Diversion Structure
"0"82+29	0.5'	Rt.	Adjust C.O.
"0"82+73	29'	Lt.	Adjust C.O.
"0"82+95	28'	Rt.	Adjust M.H.
"0"83+03	33.5'	Rt.	Adjust M.H.

HORIZONTAL CONTROL
Bearing base is taken as N38°43'20"W
from Alaska Tidelands Survey No. 3
RMC 31 to RMC 32.

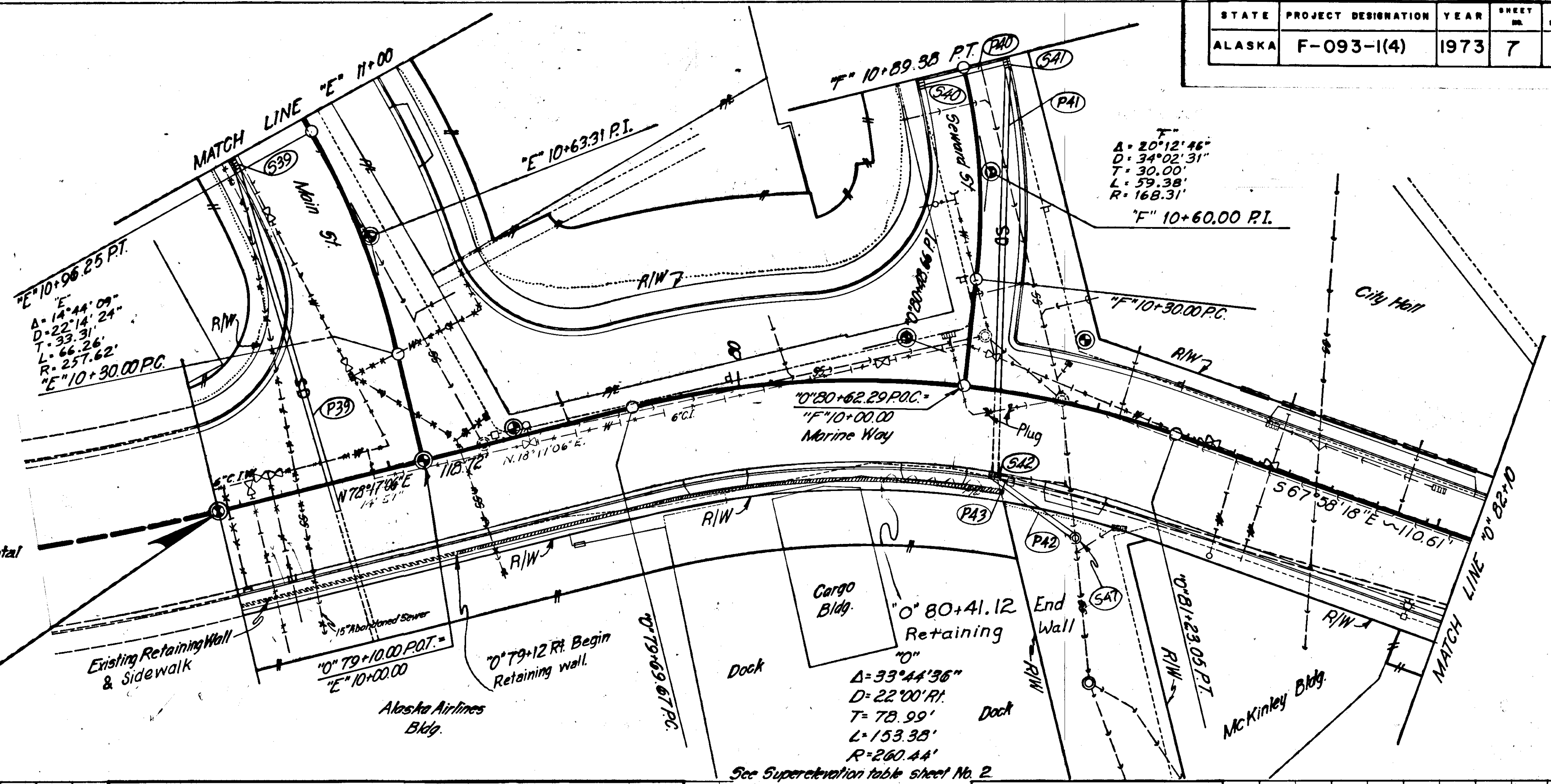
VERTICAL CONTROL
Tidal Bench Mark 13 set in a concrete
block on the Southeast corner of a
foundation 17.5 feet Northeast of the
National Guard Building. Elevation 24.75 M.L.W.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-1(4)	1973	7	82

**OUTER DRIVE PHASE III
BEGINNING OF PROJECT
NO. F-093-1(4)**

STA. "0" 78+50.95
78+56.85 B.K.
78+56.52 A.H.

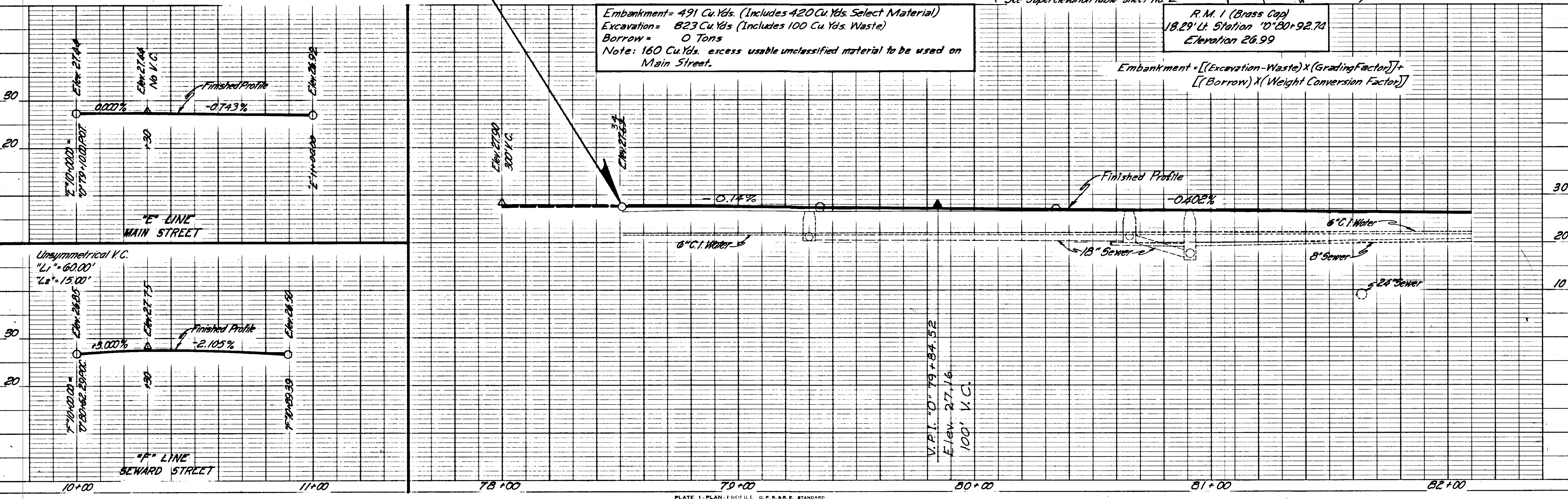
Note: Old piling under existing street between
Sta. "0" 78+50 and Sta. "0" 85+38 are to be
removed as directed by the Engineer, incidental
to item other items of work.



Embankment = 491 Cu. Yds. (Includes 420 Cu. Yds. Select Material)
Excavation = 823 Cu. Yds. (Includes 100 Cu. Yds. Waste)
Borrow = 0 Tons
Note: 160 Cu. Yds. excess usable unclassified material to be used on
Main Street.

R.M. 1 (Brass Cap)
18.29' Lt. Station "0" 80+92.74
Elevation 26.99

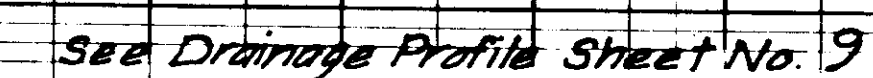
Embankment = [(Excavation - Waste) x (Grading Factor)] +
[(Borrow) x (Weight Conversion Factor)]



NOVE BOOK	ALIGNMENT CHECKED	
	RT. OF WAY CHECKED	
NO.		

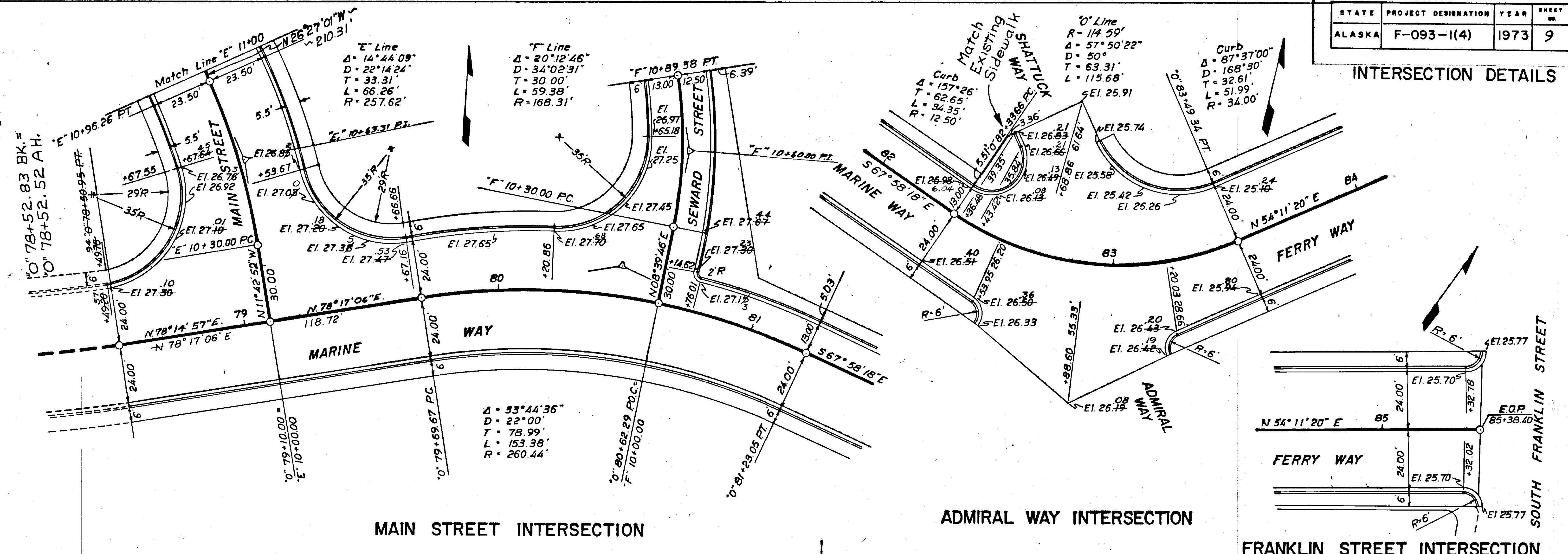


TBM
Spike in power pole in front of
Top Hat Bar. Elevation 29.94

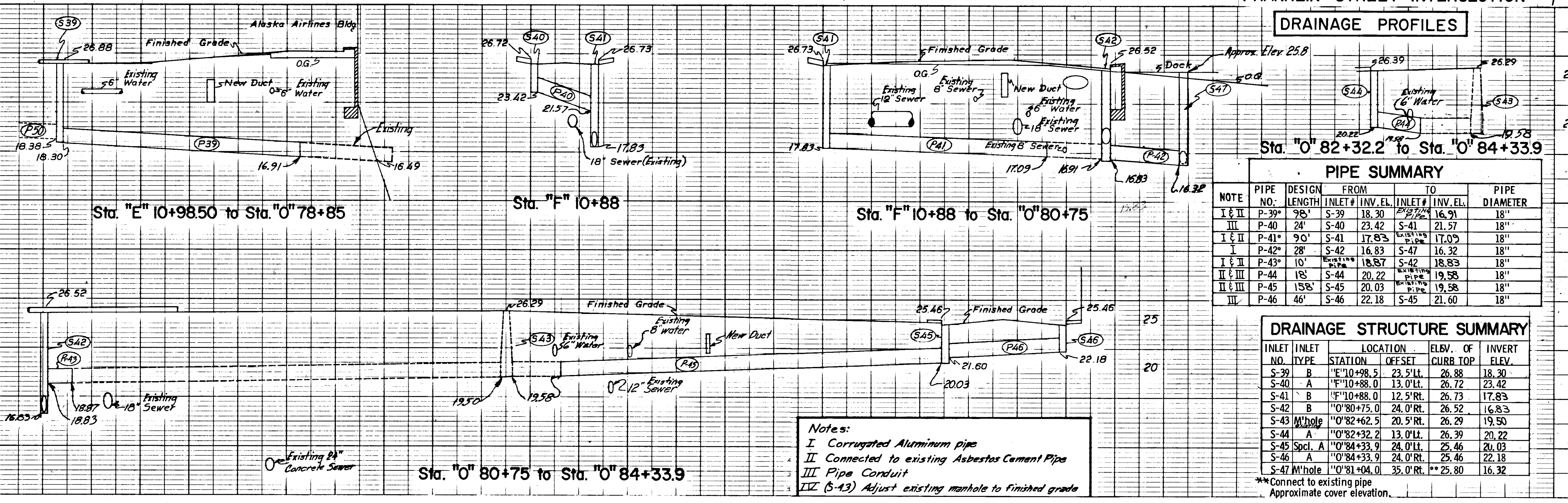


STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-1(4)	1973	9	82

INTERSECTION DETAILS



DRAINAGE PROFILES



PIPE SUMMARY						
NOTE	PIPE NO.	DESIGN LENGTH	FROM INLET #	TO INLET #	PIPE DIAMETER	
I & II	P-39*	98'	S-39	S-40	18"	
III	P-40	24'	S-40	S-41	18"	
I & II	P-41*	90'	S-41	S-42	18"	
I	P-42*	28'	S-42	S-43	18"	
I & II	P-43*	10'	S-43	S-44	18"	
II & III	P-44	18'	S-44	S-45	18"	
II & III	P-45	158'	S-45	S-46	18"	
III	P-46	46'	S-46	S-47	18"	

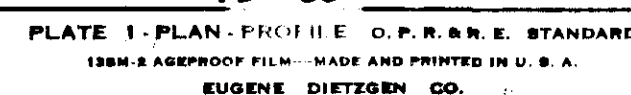
DRAINAGE STRUCTURE SUMMARY

INLET NO.	INLET TYPE	STATION	LOCATION	OFFSET	ELEV. OF CURB TOP	INVERT ELEV.
S-39	B	"E" 10+98.5	23.5' Lt.		26.88	18.30
S-40	A	"F" 10+88.0	13.0' Lt.		26.72	23.42
S-41	B	"F" 10+88.0	12.5' Rt.		26.73	17.83
S-42	B	"O" 80+75.0	24.0' Rt.		26.52	16.83
S-43	M/hole	"O" 82+62.5	20.5' Rt.		26.29	19.50
S-44	A	"O" 82+32.2	13.0' Lt.		26.39	20.22
S-45	Spcl. A	"O" 84+33.9	24.0' Lt.		25.46	20.03
S-46	A	"O" 84+33.9	24.0' Rt.		25.46	22.18
S-47	M/hole	"O" 81+04.0	35.0' Rt.	**	25.80	16.32

Notes:
I Corrugated Aluminum pipe
II Connected to existing Asbestos Cement Pipe
III Pipe Conduit
IV (S-43) Adjust existing manhole to finished grade

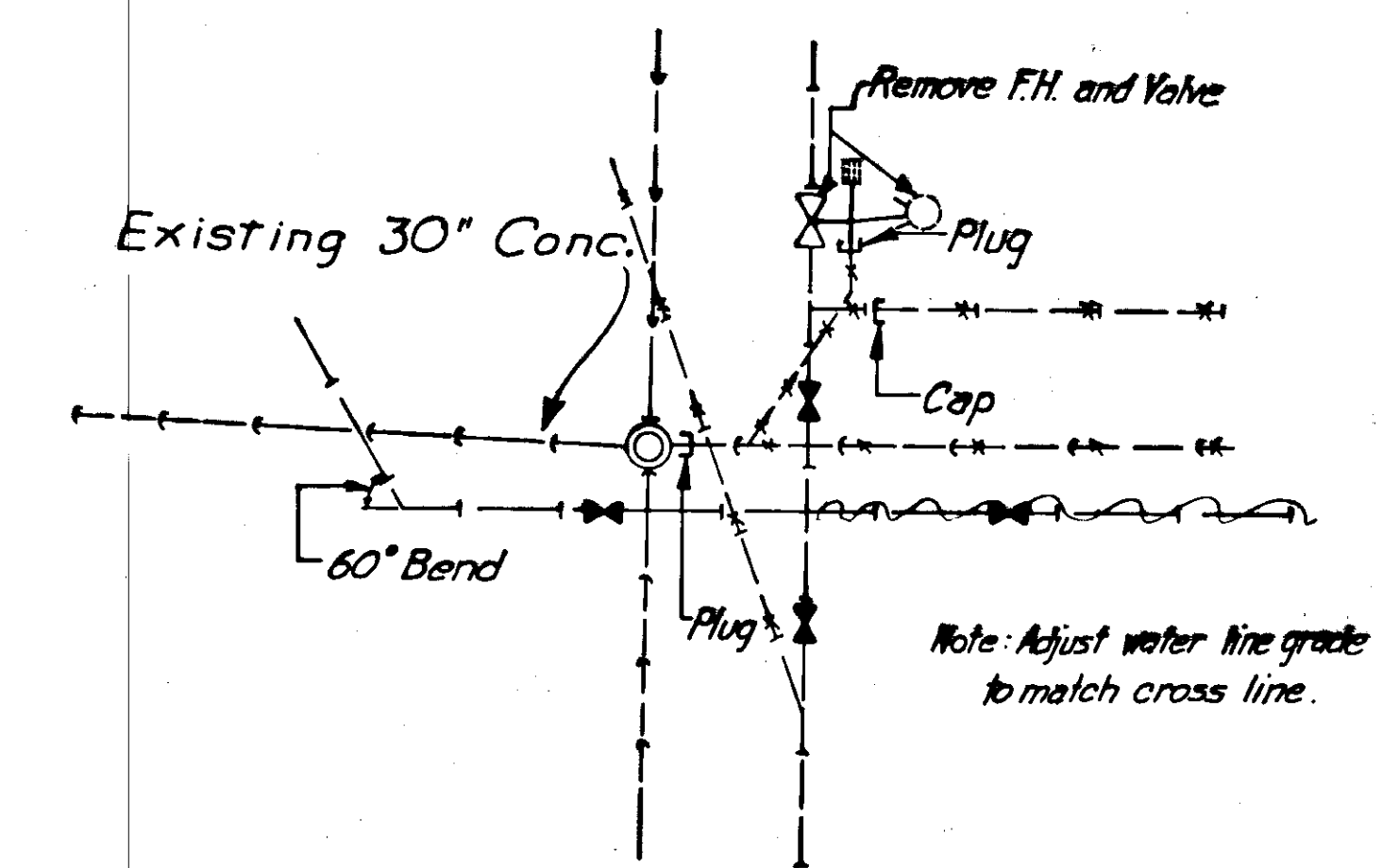
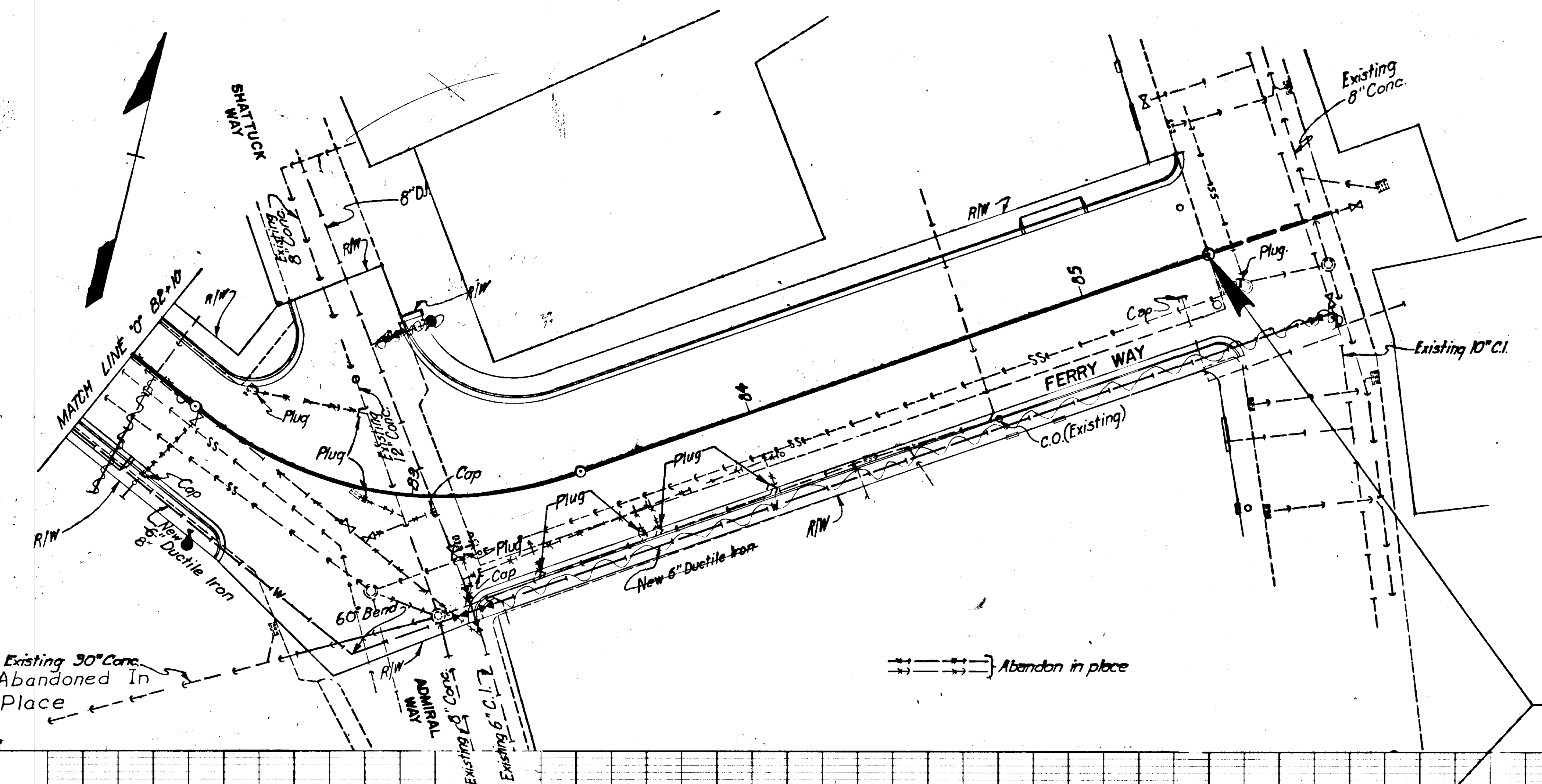
**Connect to existing pipe
Approximate cover elevation.

WATER & SEWER



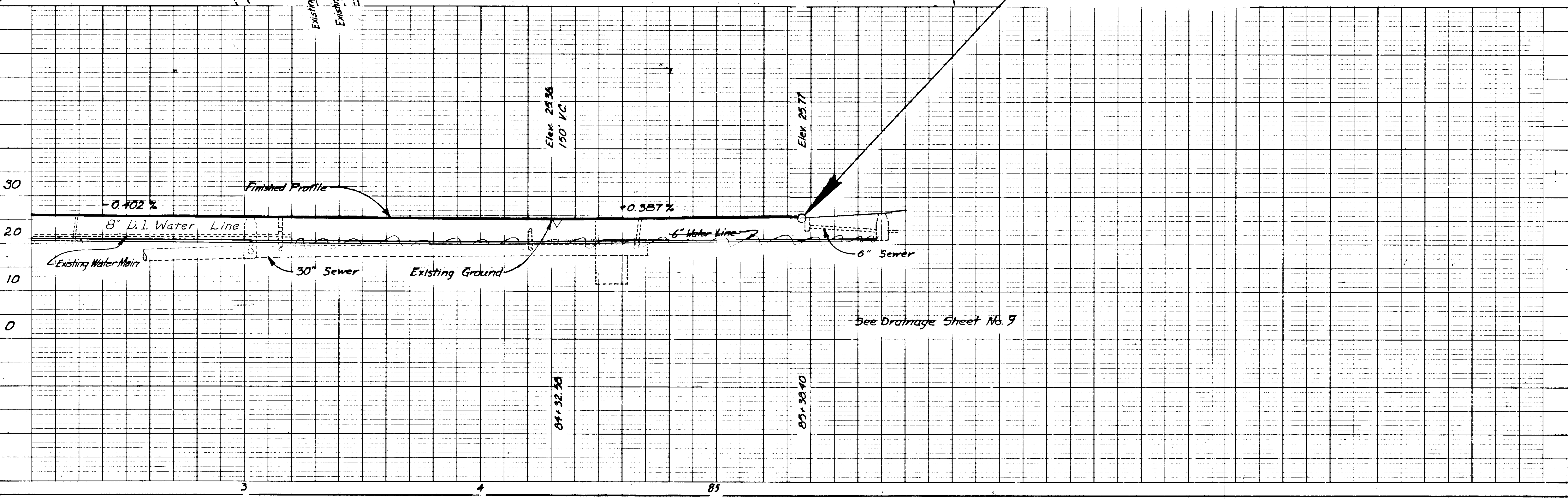
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-1(4)	1973	11	82

WATER & SEWER



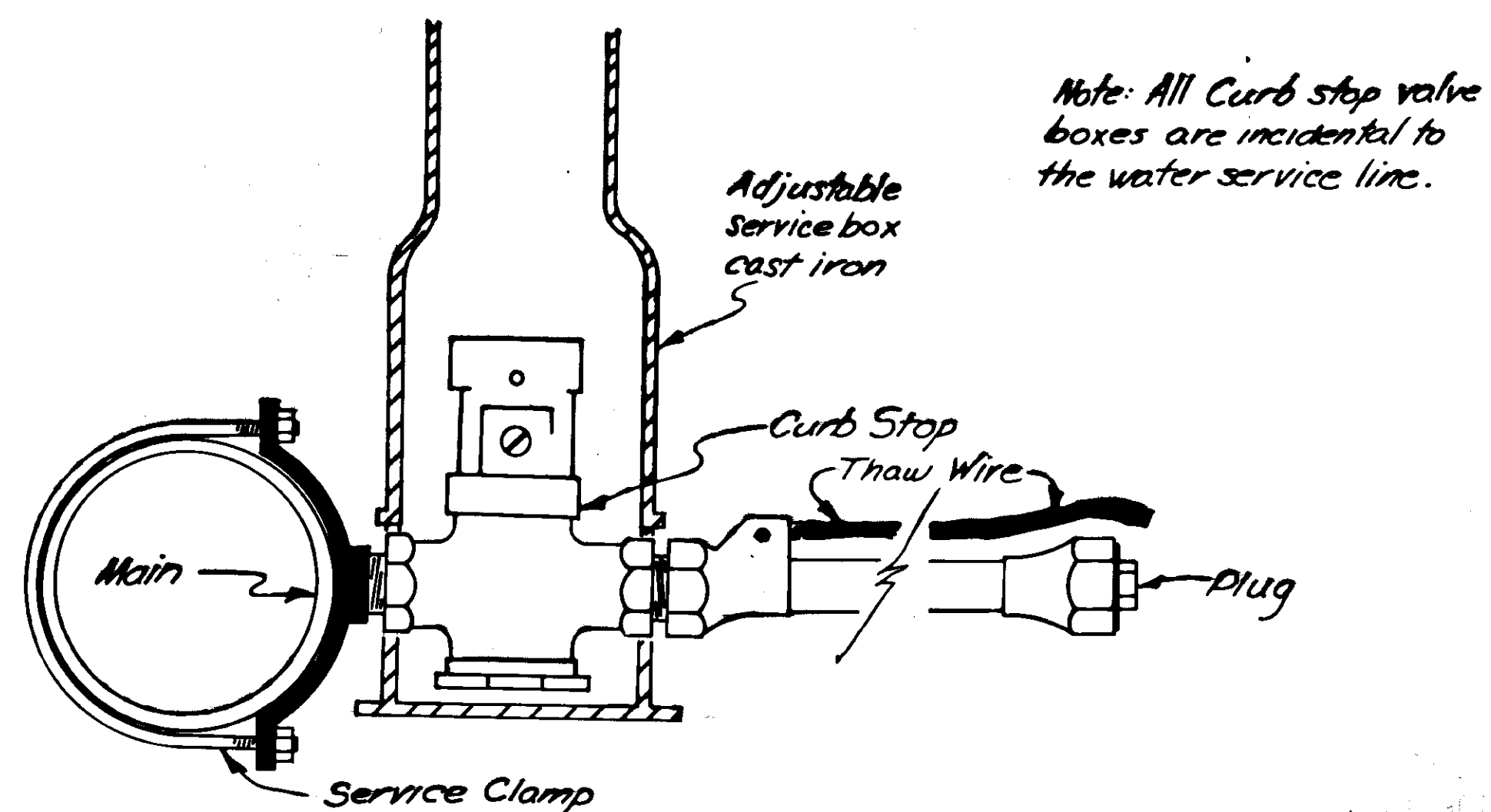
WATER & SEWER MAIN INSTALLATION STA. "0" 83+20, RT.

OUTER DRIVE PHASE III
END OF PROJECT
F-093-1 (4)
STA. "0" 85+38.40

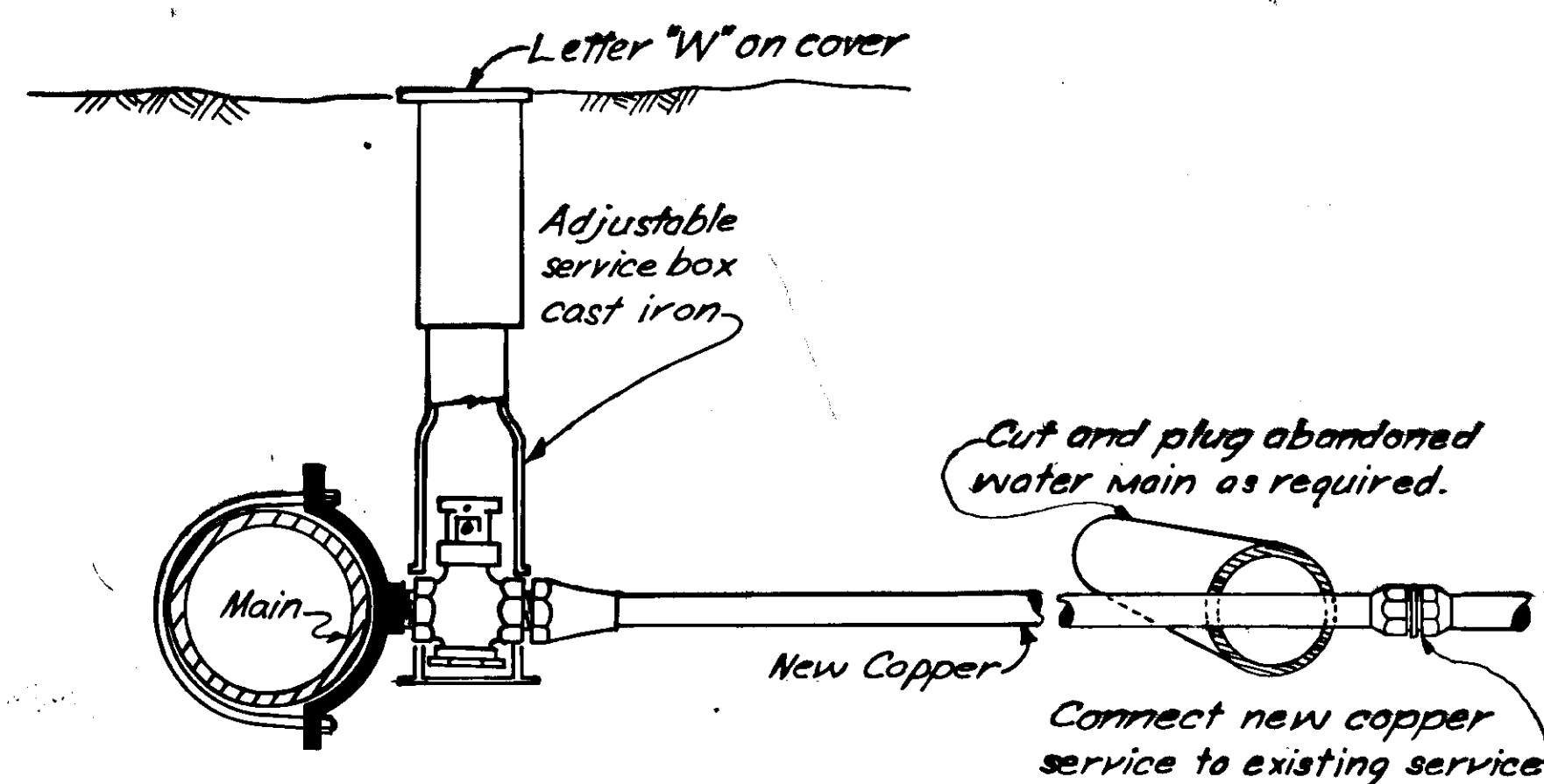


STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-1(4)	1973	12	82

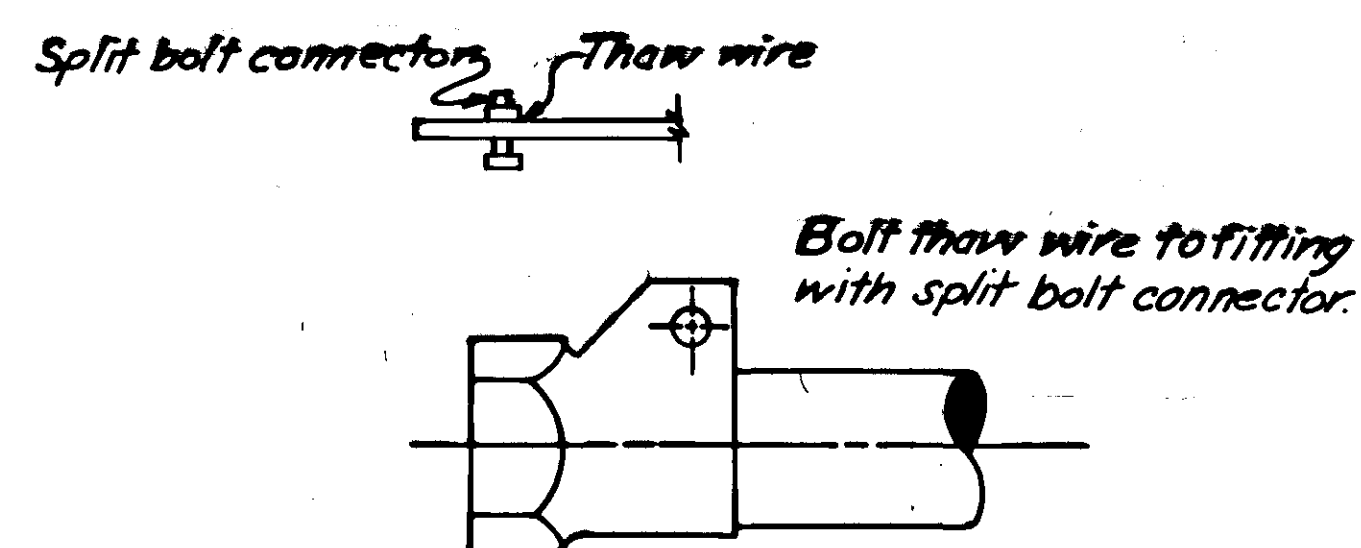
UTILITY DETAILS



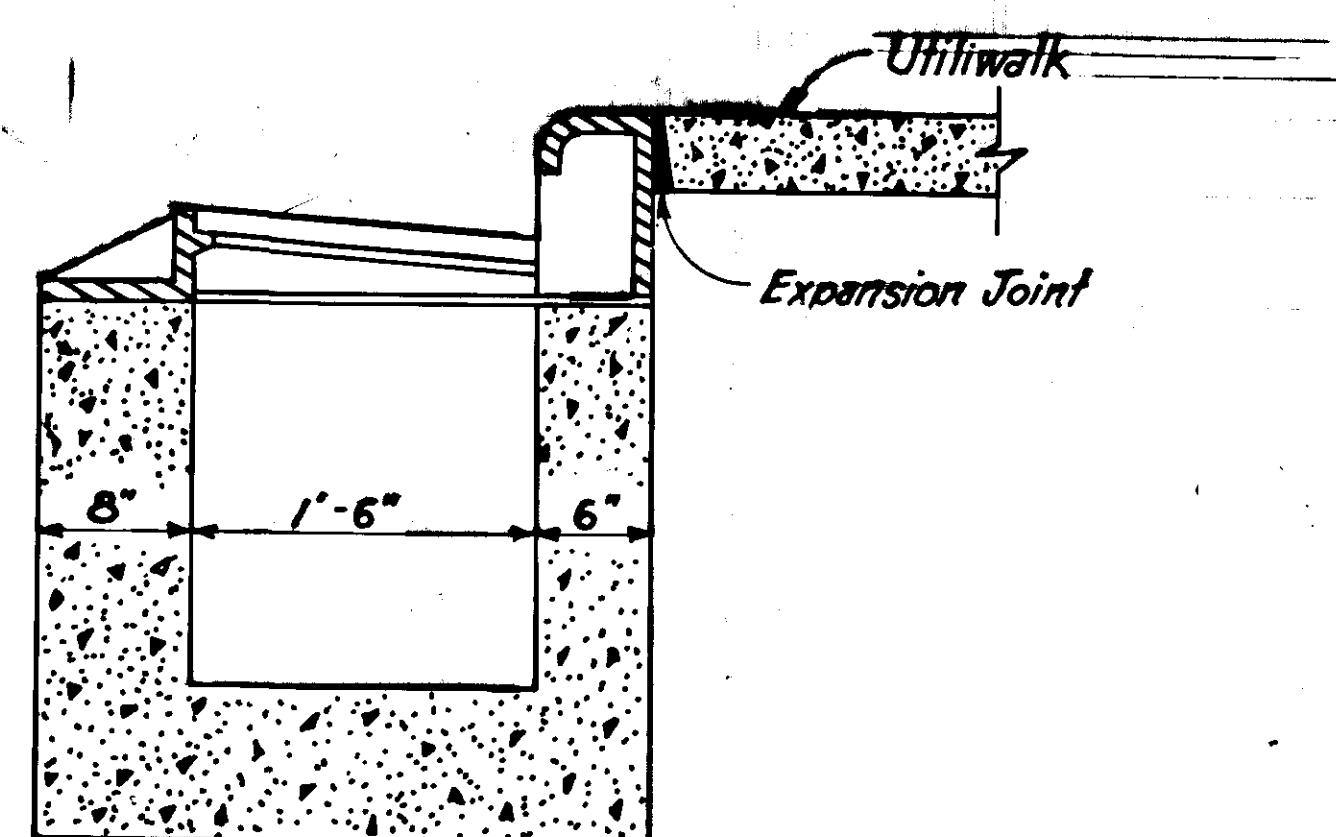
WATER SERVICE CONNECTION DETAIL



EXISTING SERVICE CONNECTION DETAIL

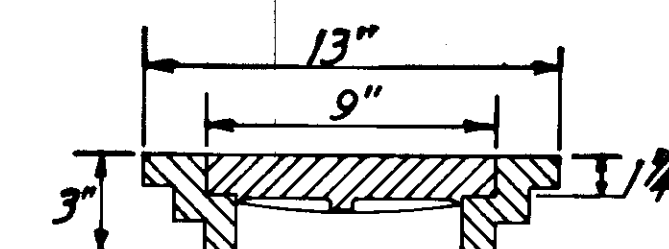
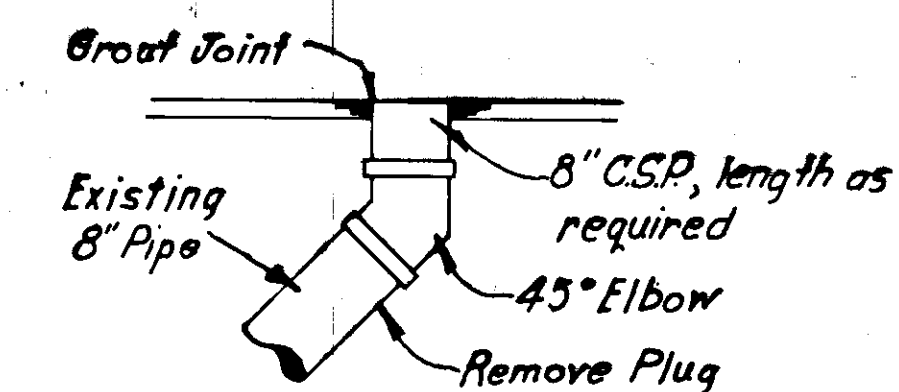


THAW WIRE CONNECTION DETAIL "A"



SPECIAL TYPE "A" INLET

Special Type "A" Inlet to be used in conjunction with Utility Walk
Pay for under Item 604(5a)



SEWER CLEANOUT ADJUSTMENT DETAIL

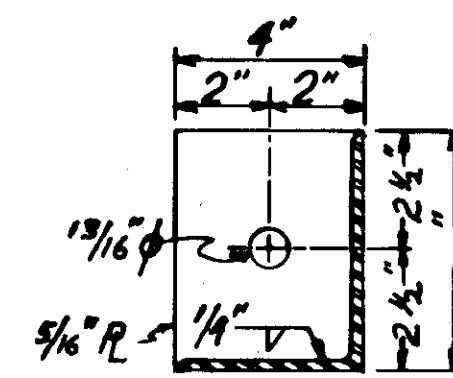
RETAINING WALL DETAILS

REINFORCING STEEL

Bar	Size	Spacing (inches)	Quantity	Length (ft.-in)	Total Wt. (lbs)
①	4	Varies	7	164'-0"	766.9
②	4	18"	104	6'-5"	445.8
③	5	20"	94	8'-8"	849.7
④	5	20"	94	4'-4"	424.8
⑤	4	18"	24	164'-0"	438.2
⑥	4	18"	24	7'-4"	117.6
⑦	4	12"	12	6'-3"	50.1
⑧	4	12"	24	6'-9"	108.2
⑨	4	12"	12	3'-0"	24.0
⑩	5	6"	70	2'-6"	182.5
⑪	8	10"	6	17'-6"	280.4
⑫	5	12"	6	6'-8"	41.7
⑬	4	36" Detail	16	7'-3"	77.5
⑭	4	18"	4	7'-4"	19.6
⑮	4	18"	4	9'-8"	25.8
⑯	4	36"	3	164'-0"	328.7
⑰	4	18"	145	4'-1"	396

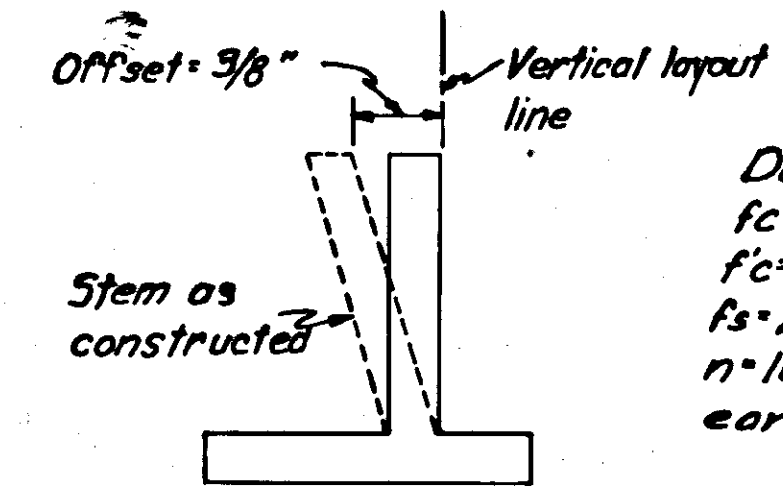
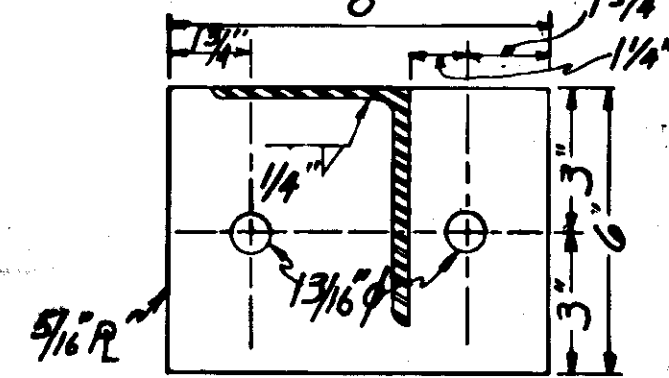
* See bending details

PLATE "A" DETAIL



SIDEWALK BRACKET FASTENING DETAIL

PLATE "B" DETAIL

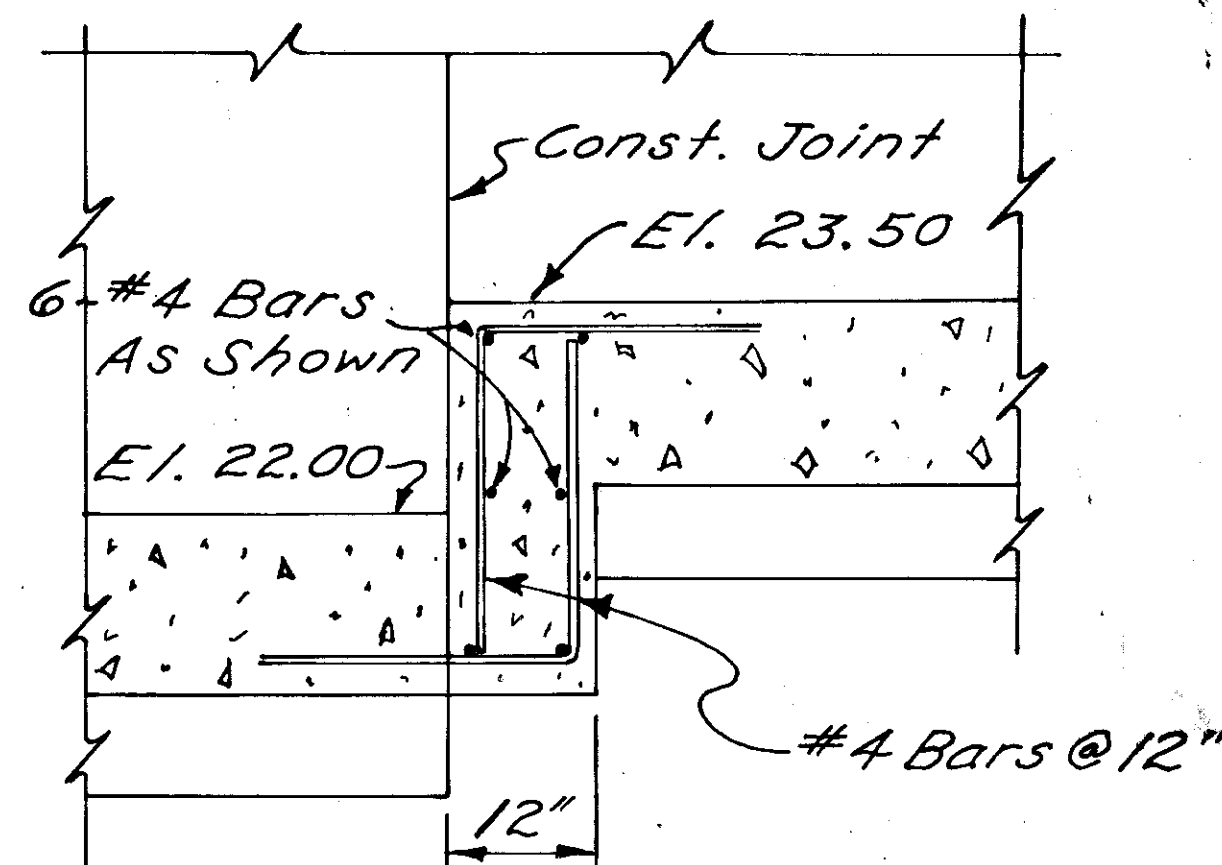


WALL OFFSET

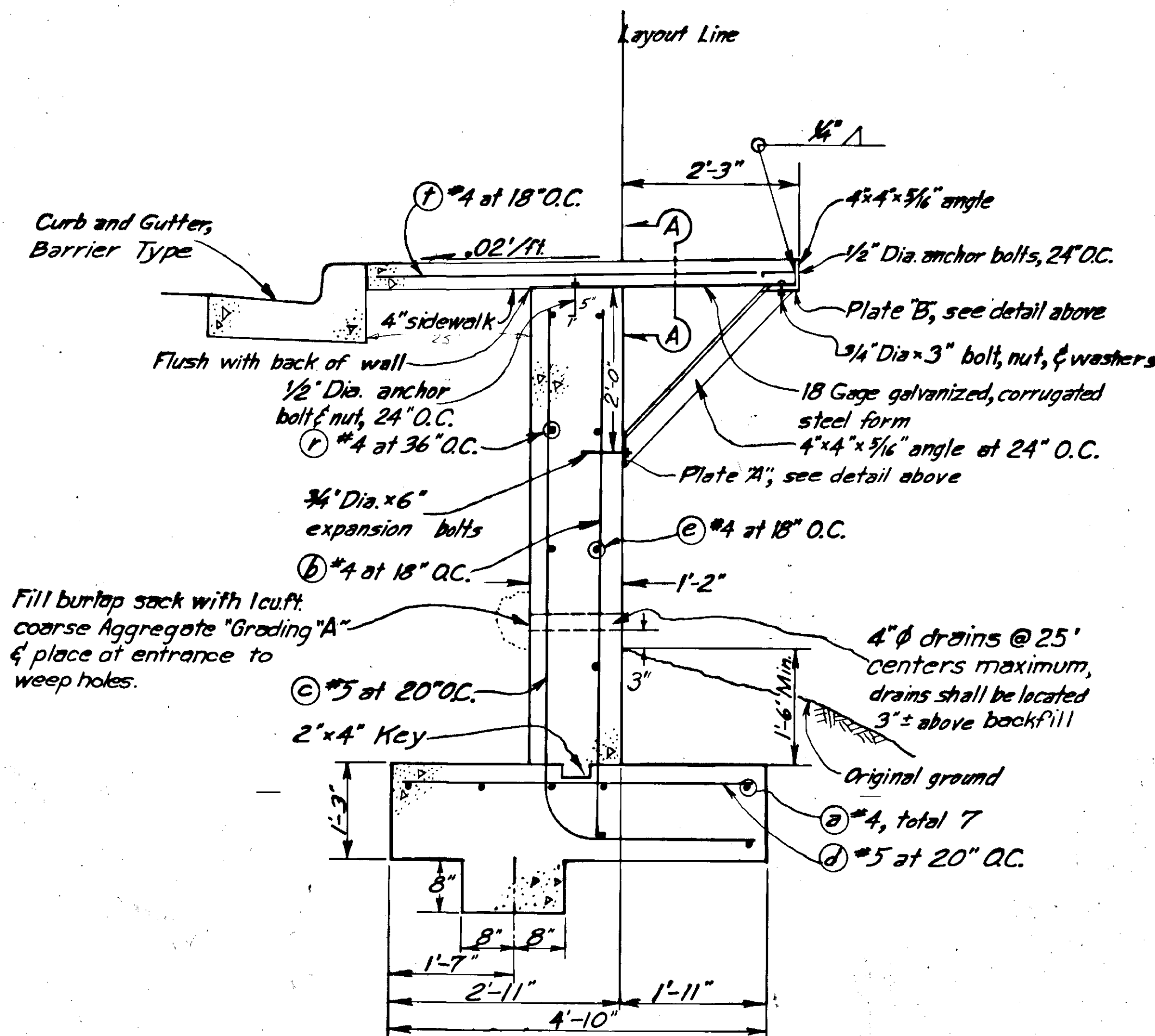
Design Data:
 $f_c = 1200 \text{ psi}$
 $f'_c = 3000 \text{ psi}$
 $f_s = 20,000 \text{ psi}$
 $n = 10$
 $\text{earth} = 120 \text{ pcf}$

GENERAL NOTES

All reinforcing bars shall have a 3-inch minimum clear distance to face of concrete.
 Contraction joints shall have a maximum spacing of 30 feet.
 Expansion joints shall have a maximum spacing of 90 feet.
 All structural steel and hardware shall be galvanized.
 Structural steel shall be incidental to items 501(1) & 503(1).



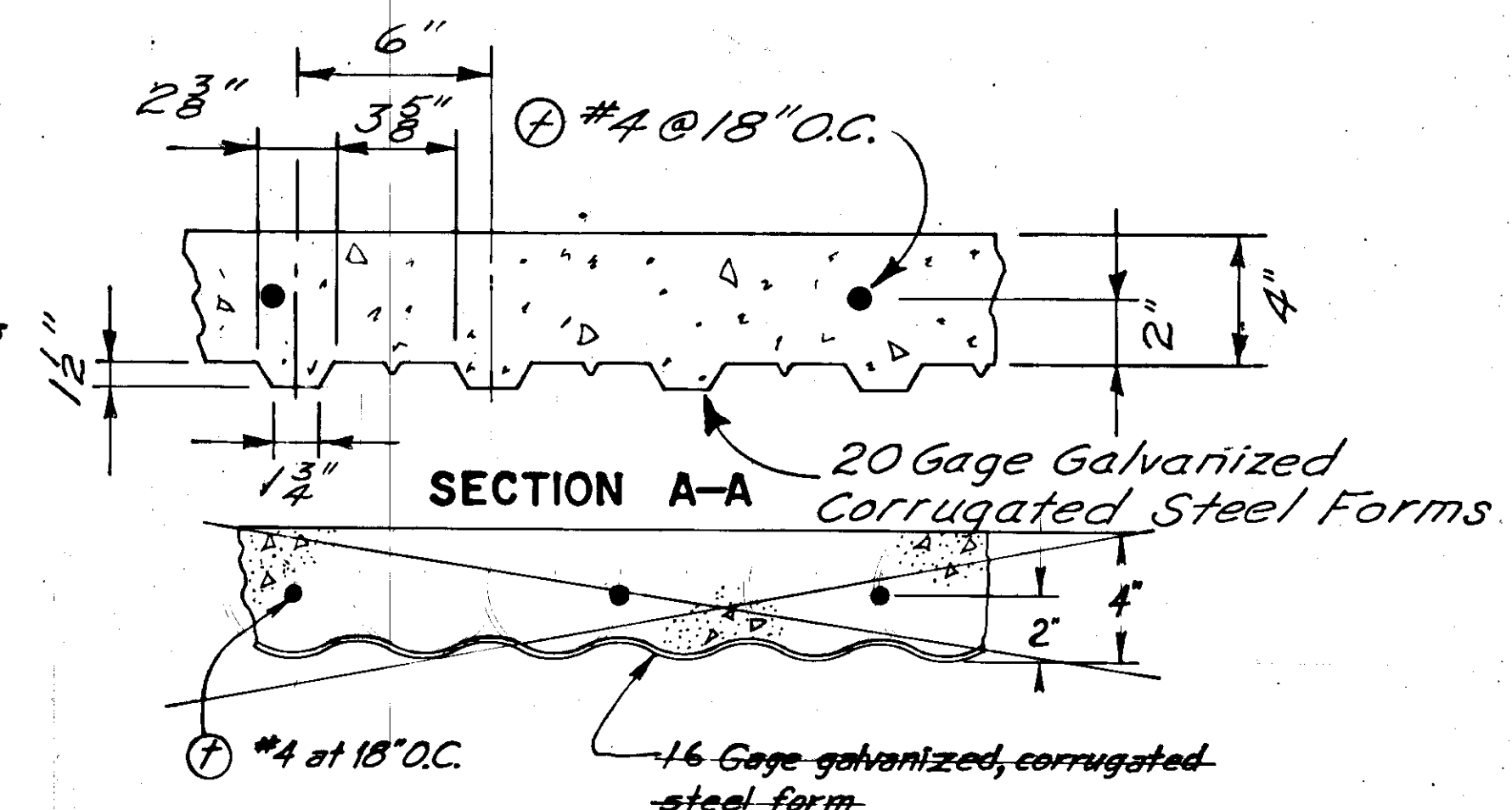
STEP-FOOTING DETAIL



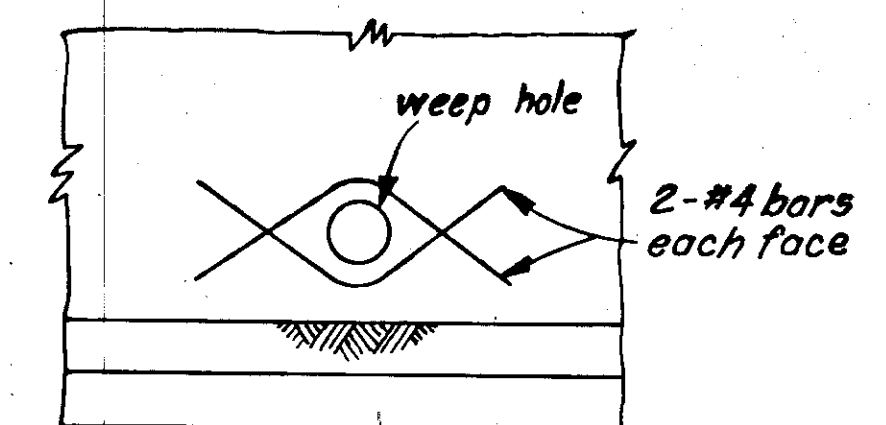
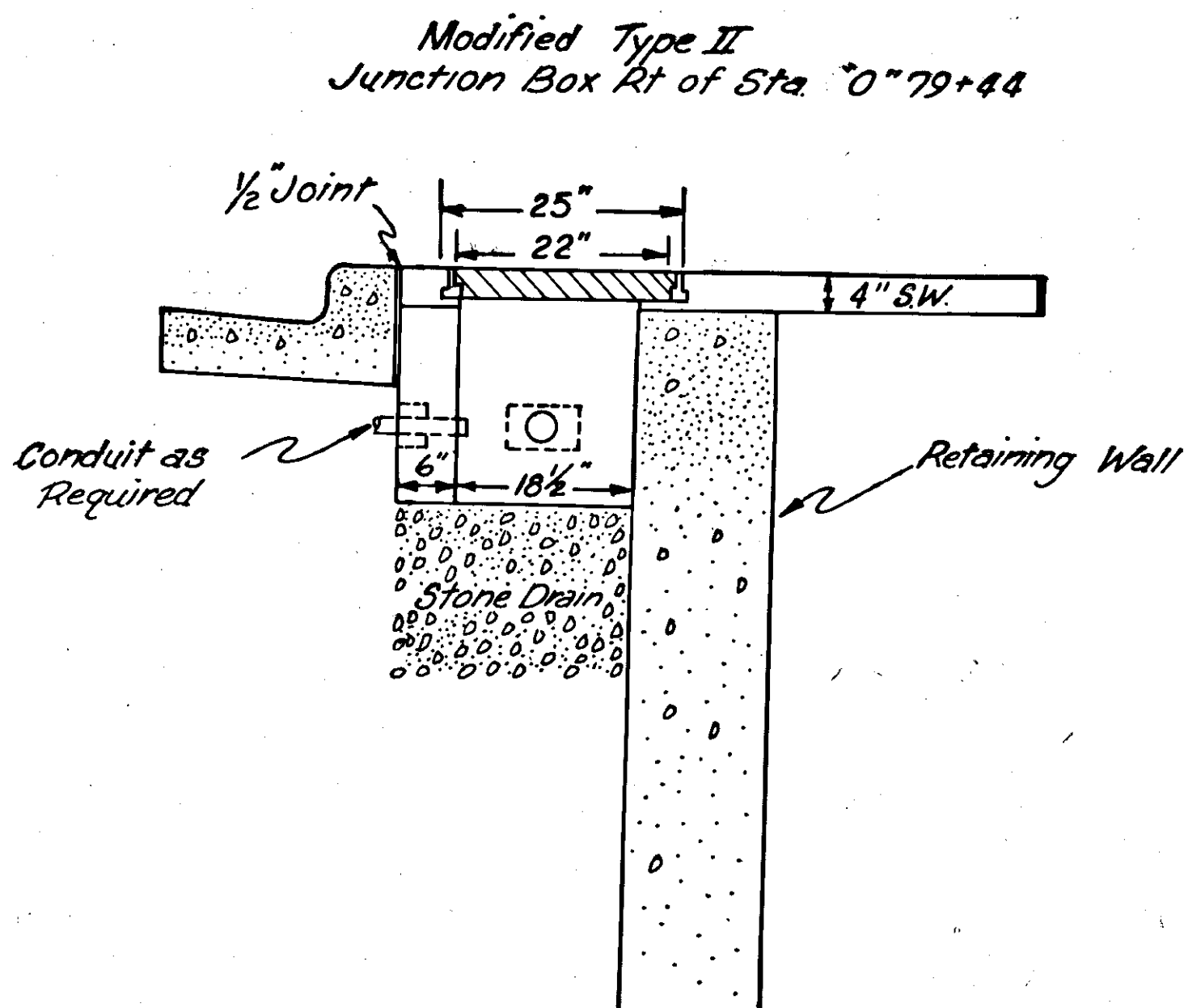
TYPICAL WALL SECTION

Location		L/R	Length	Concrete (cu. yds.)	Reinforcing Steel (lbs.)	Class I Excavation for Structures, Cnlds.
From Sta.	To Sta.					
0+79.12.00	0+80.00.00	Rt.	156.49 ft.	78.54 cu. yds.	4,578 lbs.	-234 132.3

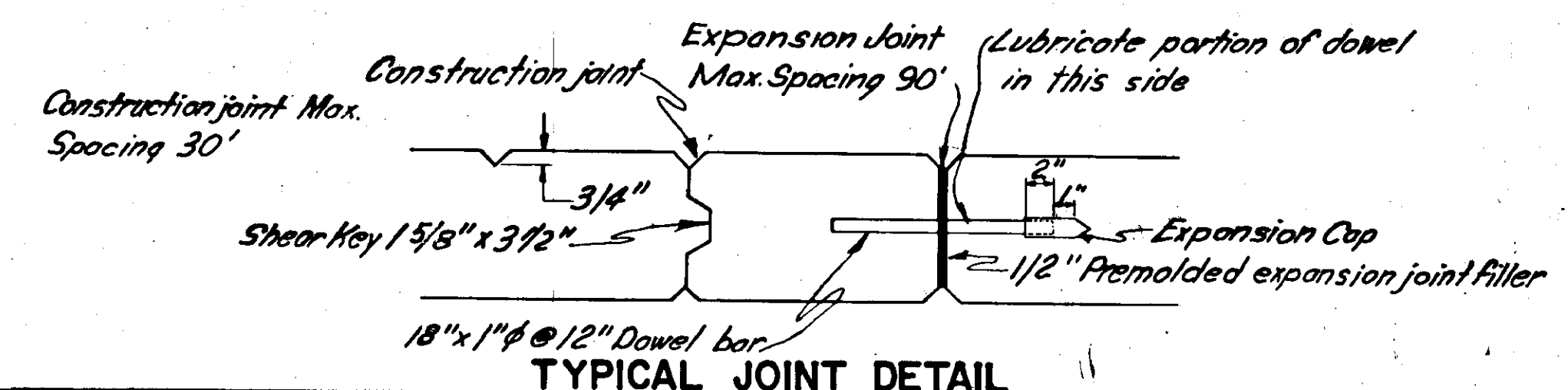
* Includes 396 lbs. in sidewalk



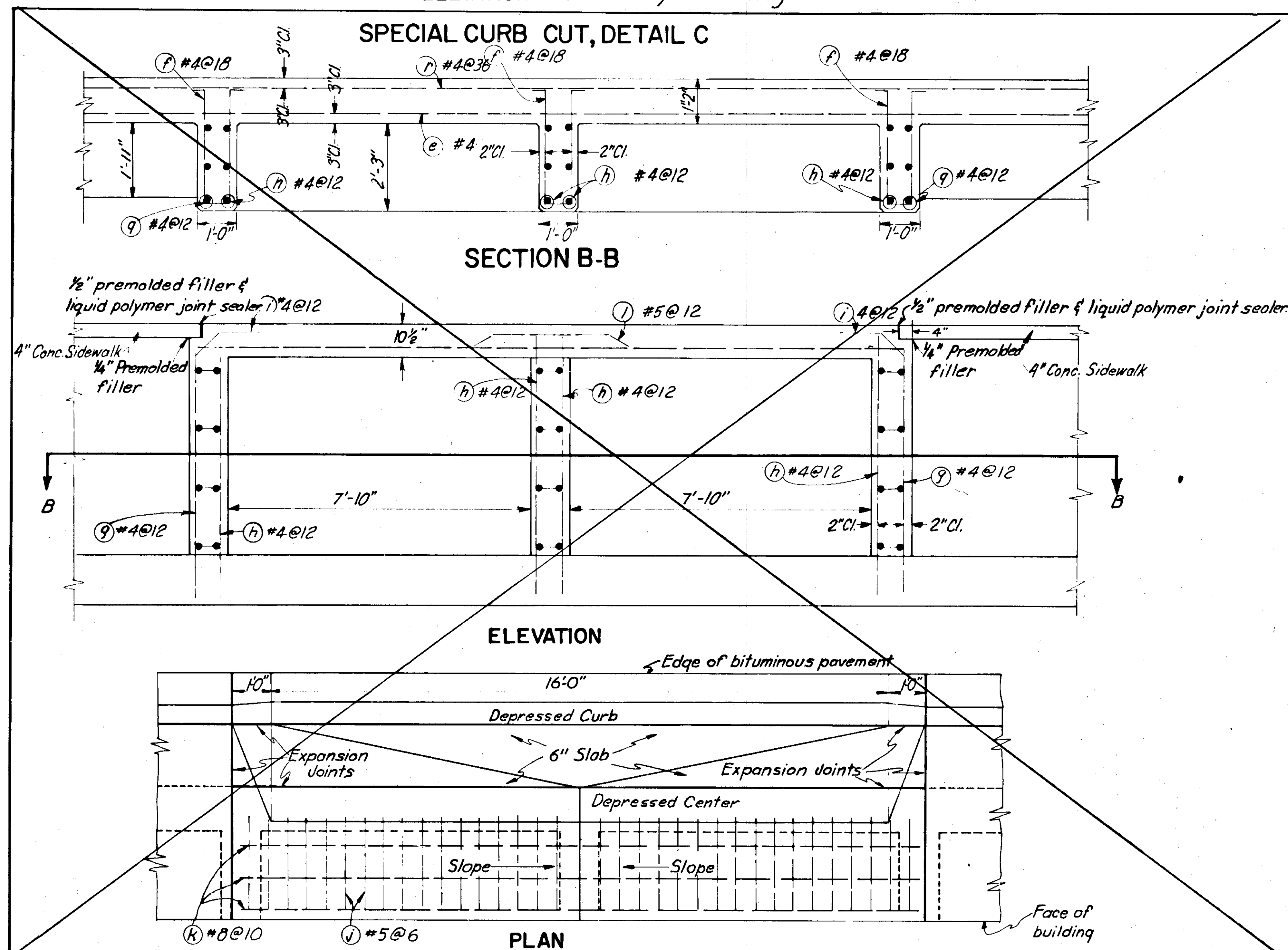
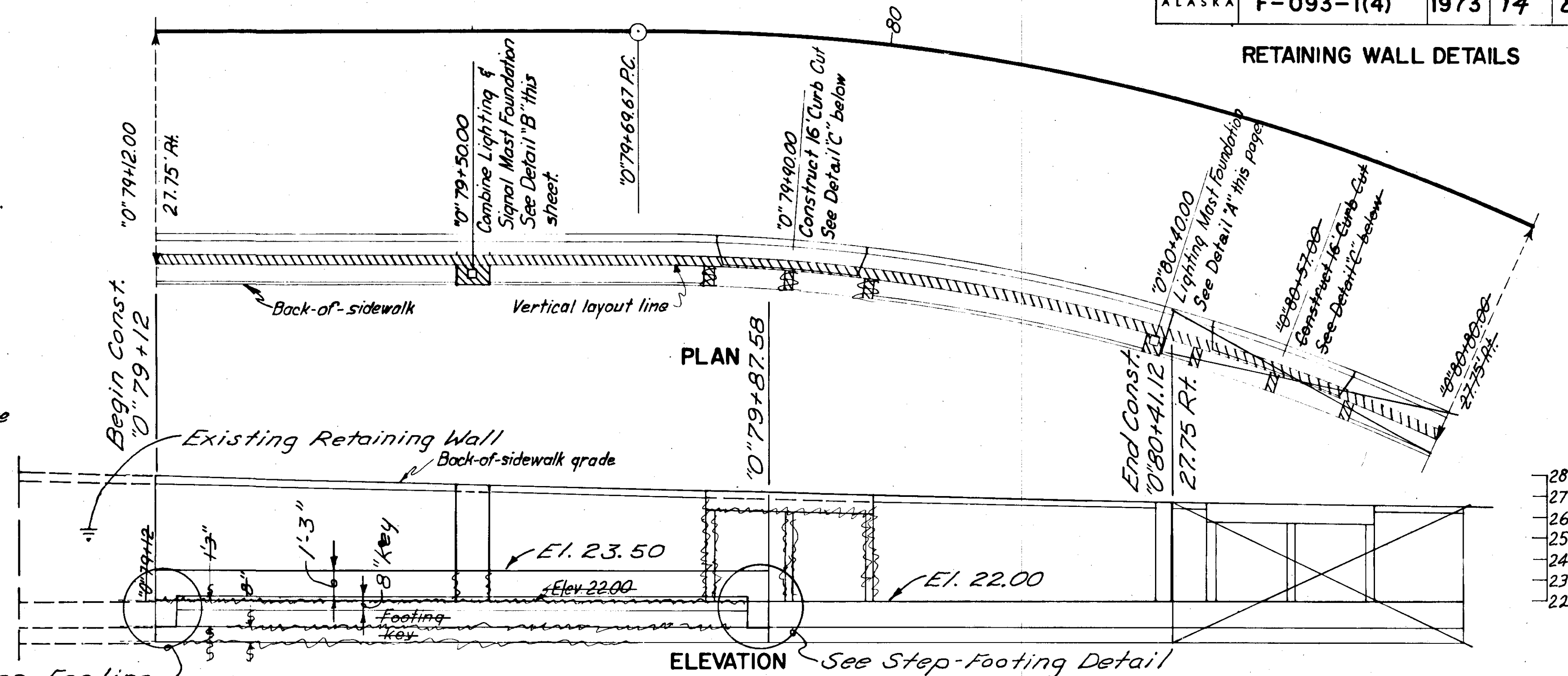
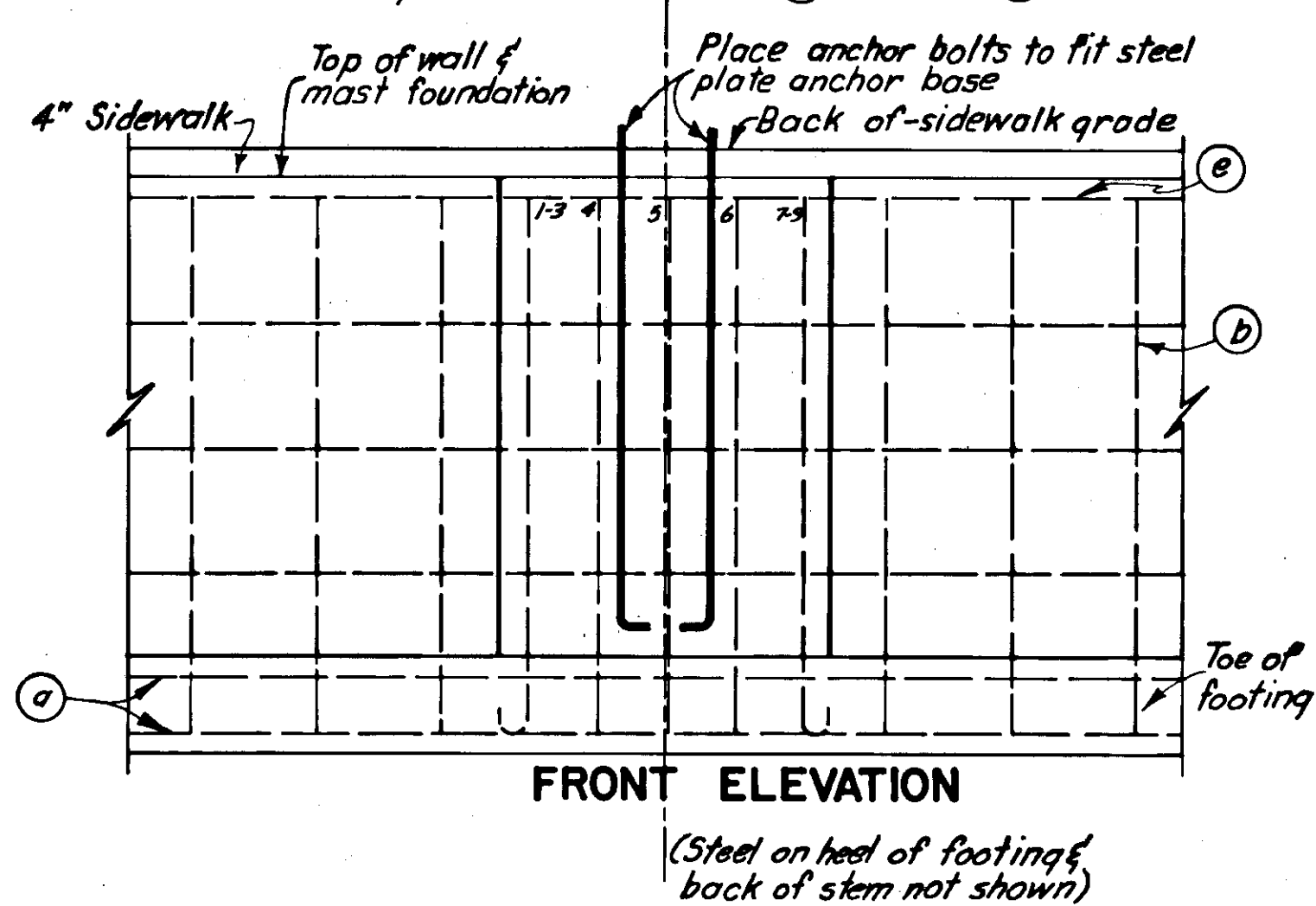
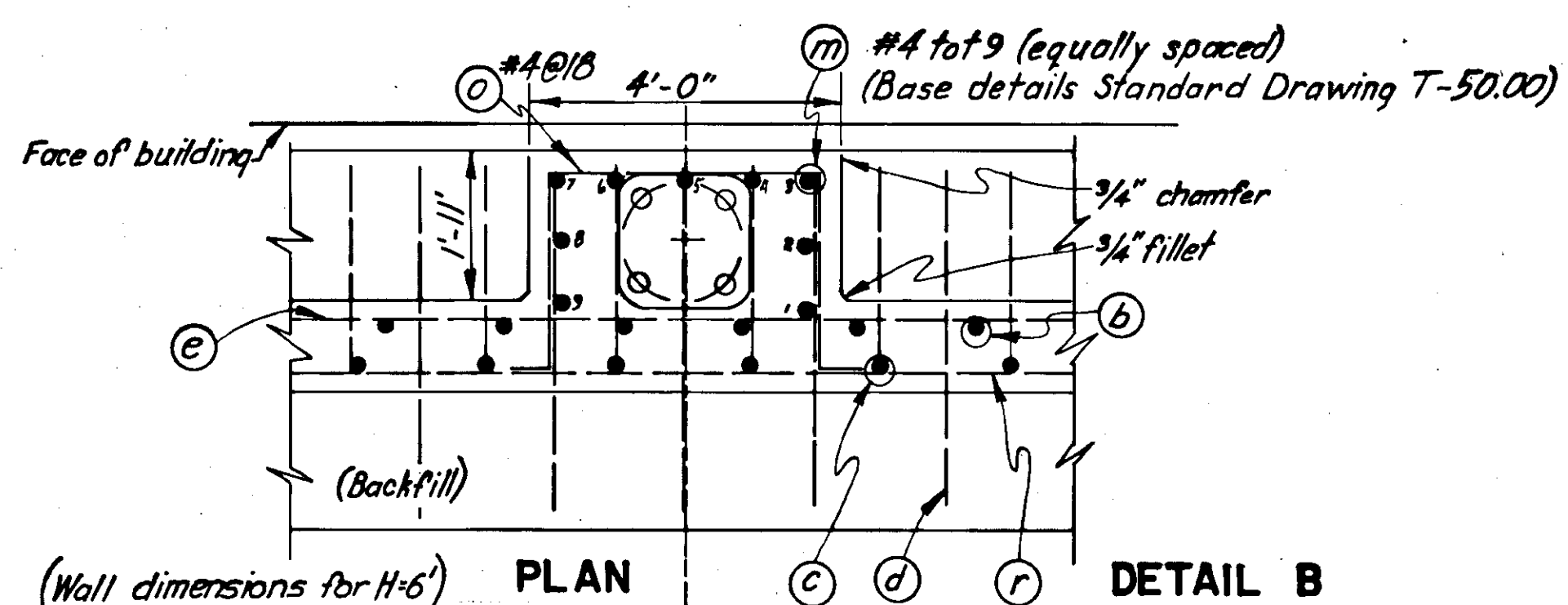
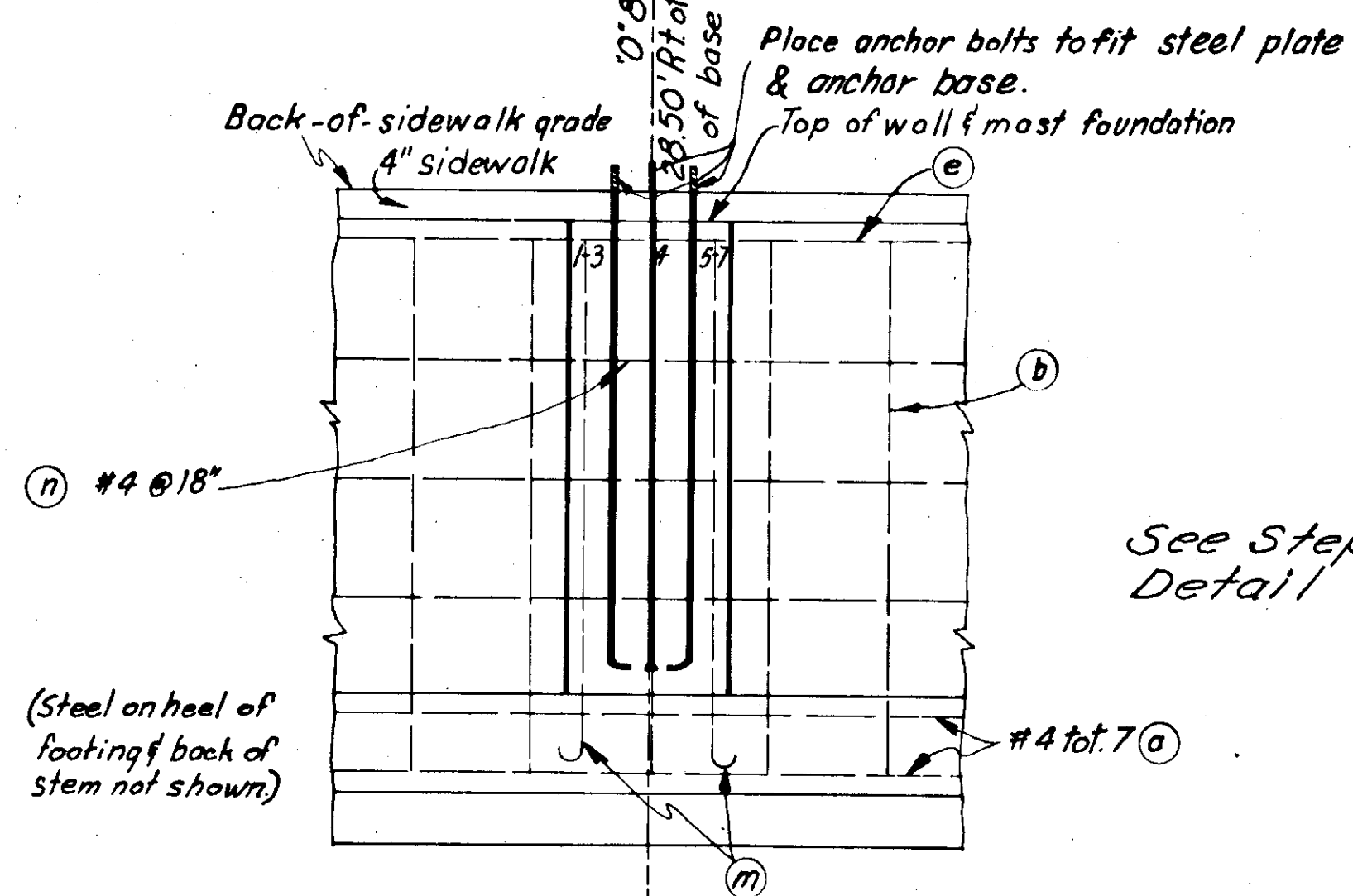
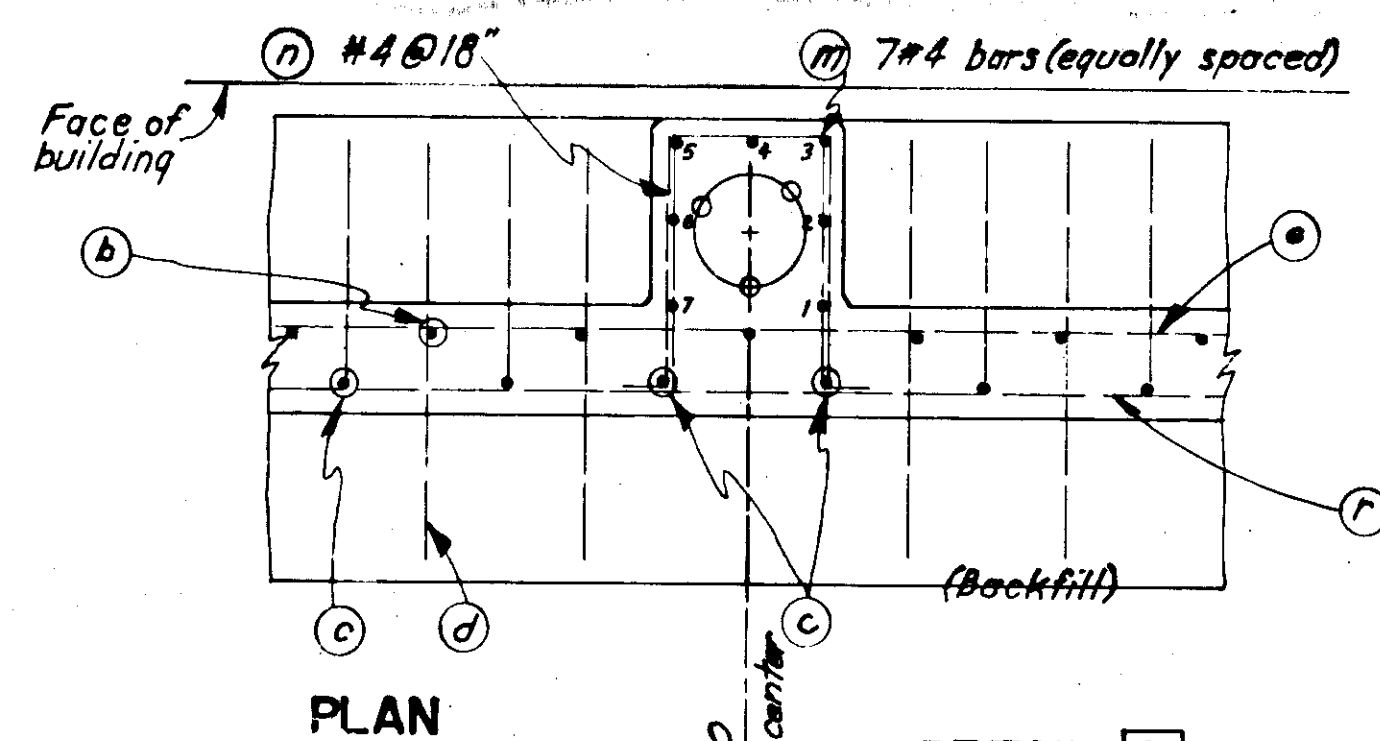
SECTION A-A



DRAIN REINFORCEMENT DETAIL



TYPICAL JOINT DETAIL

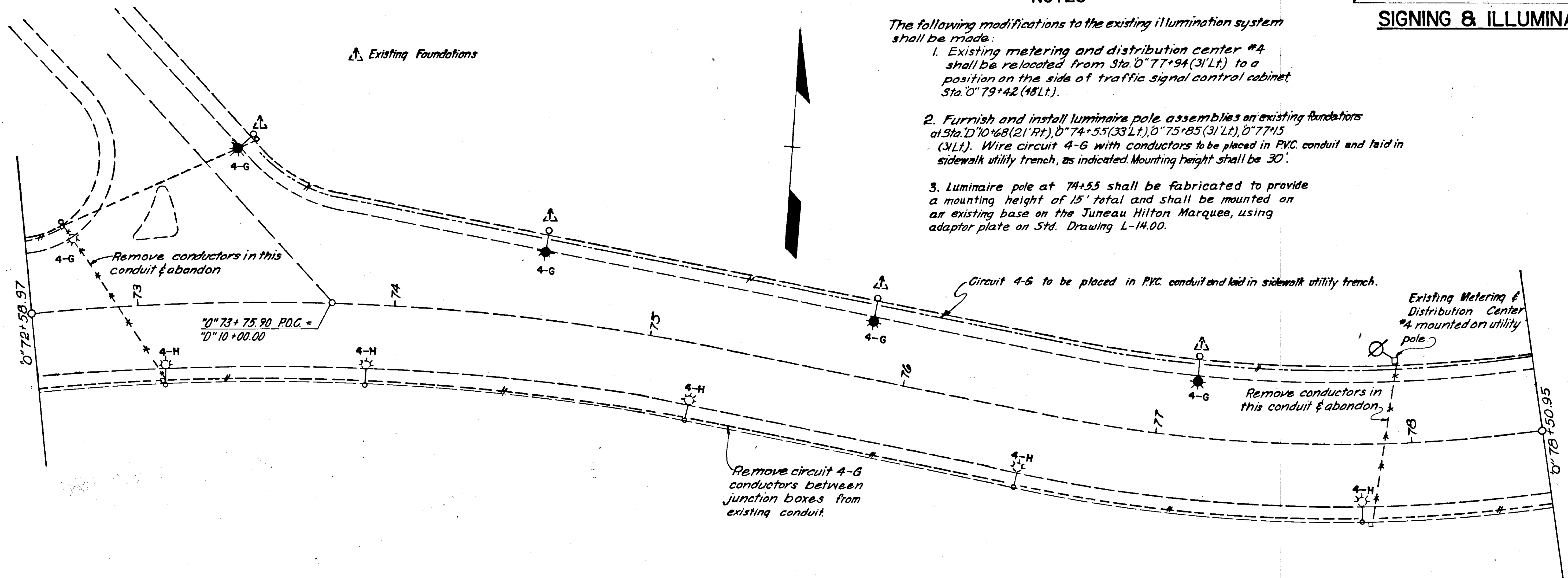


SIGNING & ILLUMINATION

NOTES

The following modifications to the existing illumination system shall be made:

- Existing metering and distribution center #4 shall be relocated from Sta. 0+77+94 (31' Lt.) to a position on the side of traffic signal control cabinet, Sta. 0+79+42 (48' Lt.).
- Furnish and install luminaire pole assemblies on existing foundations at Sta. 0+70+68 (21' Rt.), 0+74+55 (33' Lt.), 0+75+85 (31' Lt.), 0+77+15 (31' Lt.). Wire circuit 4-G with conductors to be placed in PVC conduit and laid in sidewalk utility trench, as indicated. Mounting height shall be 30'.
- Luminaire pole at 74+55 shall be fabricated to provide a mounting height of 15' total and shall be mounted on an existing base on the Juneau Hilton Marquee, using adaptor plate on Std. Drawing L-14.00.



GENERAL PAVEMENT MARKING NOTES

See Standard Drawings T-20.00, T-21.00 and T-22.00 for locations, dimensions and layout stencils of pavement markings.

GENERAL ILLUMINATION NOTES

- Main Street Luminaires shall have a 40' mounting height. Outer Drive Phase III Luminaires shall have a 30' mounting height.
- All inter connecting conductor shall be #6 AWG.
- All luminaire base footings shall be Type II, 9" deep x 2" diameter as shown on Standard Drawing L-30.00 except at Sta. 0+78+50 & 0+80+40, see sheet no. 11
- All conduit shall be 2" diameter, unless otherwise noted
- Mount photoelectric control on luminaire pole at Sta. 0+10+60 (29' Rt.) in accordance with Standard Drawing L-20.00. Salvage photoelectric cell mounted on existing pole, Sta. 0+77+96, 32' Lt.
- Conduit and cable routings as shown on the plans are schematic and may be modified in the field as necessary, as approved by the Engineer.
- Std. is an abbreviation for Standard.
- All junction boxes shall be Type I. Unless noted otherwise.

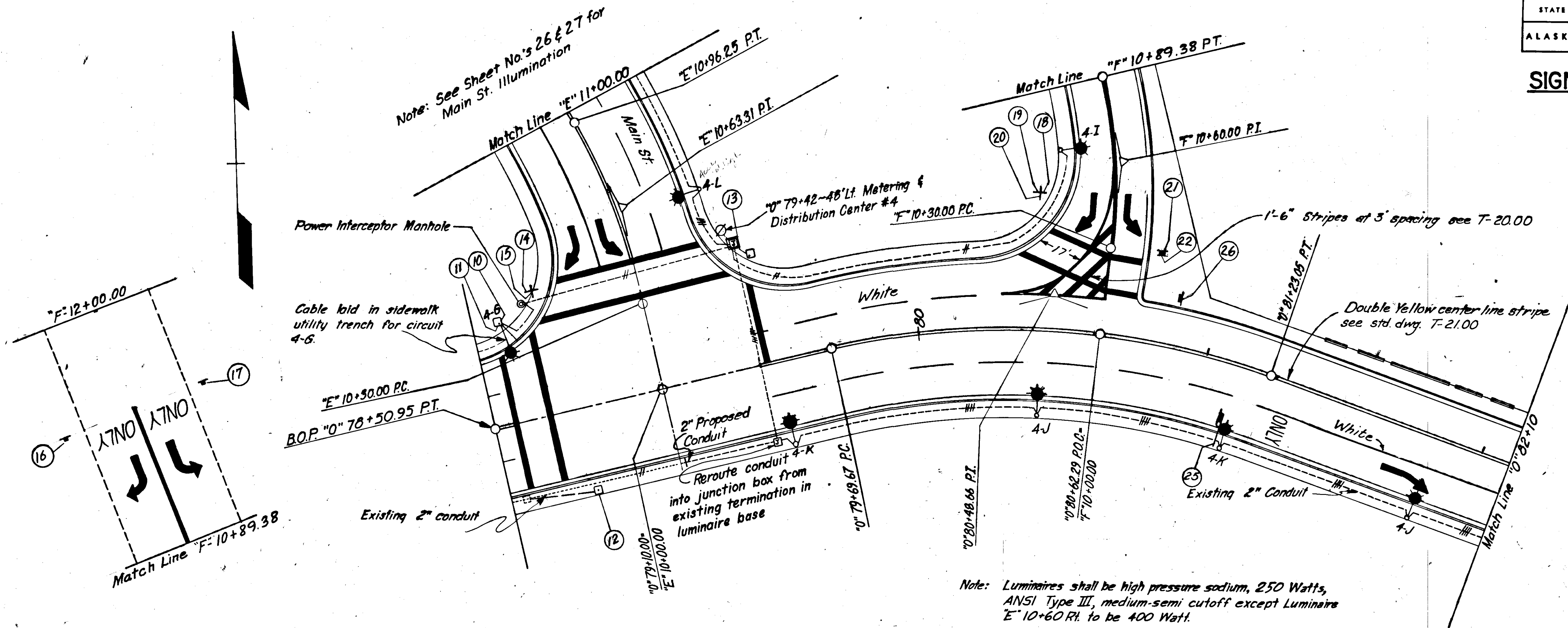
LOAD CENTER NOTES

- Circuits "L", "I", "J", "K" to service Main St. & Outer Drive lighting, will be added to existing metering and distribution box #4, to be located 48' Left of Sta. 0+79+42.00. See Standard Drawing L-20.00
- Circuit "G" breaker rated at 30 Amp.
 " " " " " " 25 Amp.
 " " " " " " 35 Amp.
 Existing circuit "I" breaker rated at 20 Amp.
 " " " " " " 25 Amp.
 " " " " " " 25 Amp.
- Main circuit breaker rated at 200 Amp.
- Lighting contactor rated at 200 Amp.

GENERAL SIGNING NOTES

All posts shall be 2" perforated galvanized steel tubing, 12 ga., see Standard Drawing S-30.00, unless noted otherwise. All sign blanks shall be .063" thick aluminum as indicated in Section 615 Standard Specifications. Sign locations are approximate and shall be located by the engineer. Signs D3-1 shall be 4" U.C. and 3" U.C. Series D.

SIGNING & ILLUMINATION



SIGNING SCHEDULE

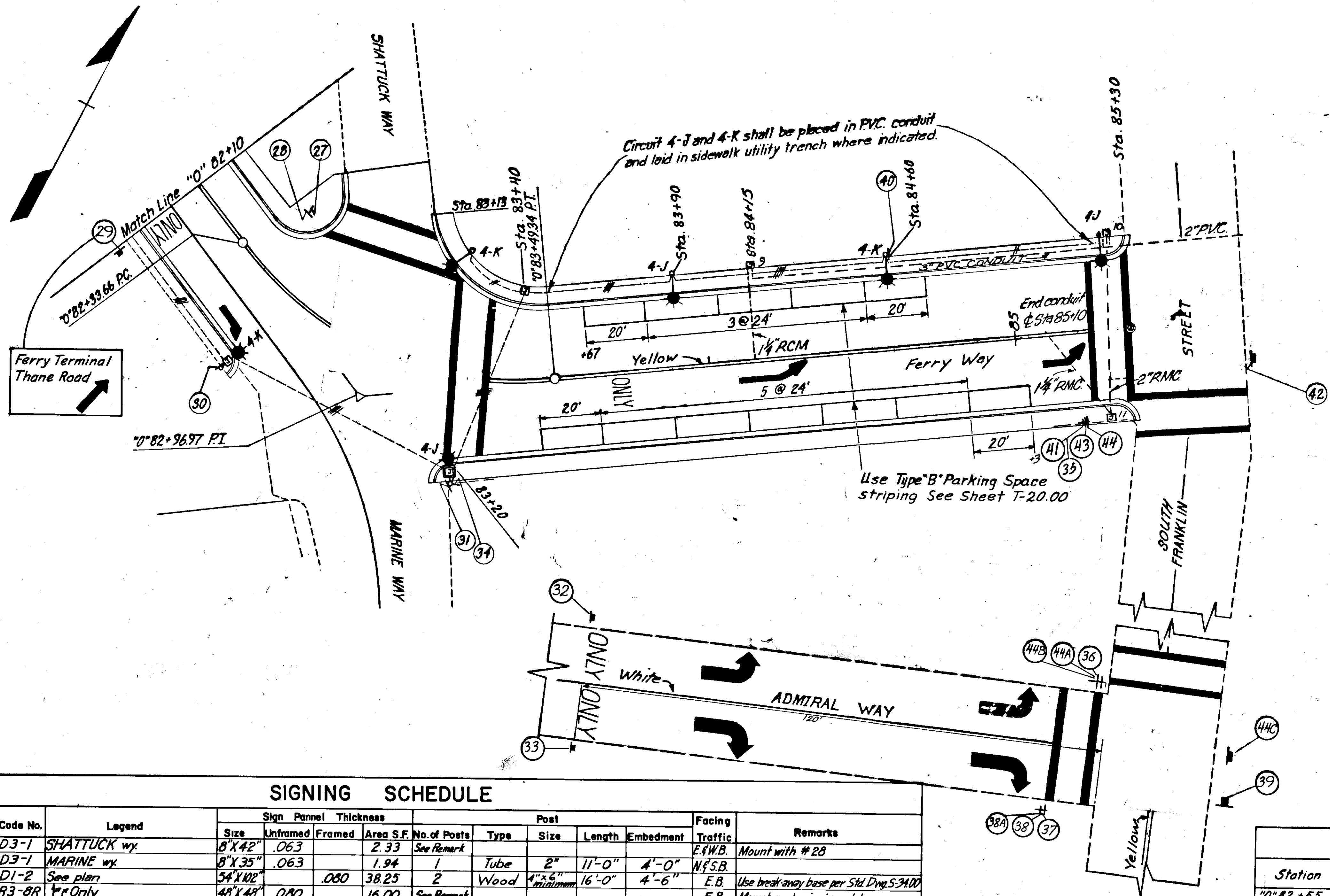
No.	Station	Dist. from C. Lt. Rt.	Code No.	Legend	Sign Panel Thickness			No. of Posts	Post				Facing Traffic	Remarks
					Size	Unframed	Framed	Area S.F.	Size	Length	Embedment			
10	10+78+64	35'	R10-4	Push Button for Walk Signal	9"X12"	.063		.75	See Remark				W.B.	Band to signalization pole
11	10+78+64	35'	R10-4	Push Button for Walk Signal	9"X12"	.063		.75	See Remark				N.B.	Band to signalization pole
12	10+78+81	29'	R10-4	Push Button for Walk Signal	9"X12"	.063		.75	See Remark				S.B.	Band to signalization pole
13	10+79+50	37'	R10-4	Push Button for Walk Signal	9"X12"	.063		.75	See Remark				E.B.	Band to signalization pole
14	10+78+33	43'	D3-1	MARINE wy.	8"X35"	.063		1.94	1	Tube	2"	11'-0"	S&N.B.	
15	10+78+33	43'	D3-1	s. MAIN ST.	8"X32"	.063		1.78	See Remark				E&W.B.	Mount with #14
16	10+10+42	25'	R1-1	Stop	30"X30"	.063		6.25	1	Tube	2"	13'-6"	S.B.	
17	10+10+42	25'	D3-1	MARINE wy.	8"X35"	.063		1.94	See Remark				S&N.B.	Mount above #18
18	10+10+42	25'	D3-1	s. SEWARD ST.	8"X40"	.063		2.22	See Remark				E&W.B.	Mount above #18
19	10+10+31	14.5'	R1-1	Stop	30"X30"	.063		6.25	1	Tube	2"	14'-0"	S.B.	
20	10+10+31	14.5'	R5-1	Do Not Enter	36"X36"	.063		9.00	See Remark				N.B.	Mount with #21
21	10+81+15	31	R3-5R	Only	30"X36"	.063		7.5	See Remark					Mount on 8' mast arm over hd.
22	10+80+88	14.5'	R3-1	No Right Turn	30"X30"	.063		9.25	1	Tube	2"	14'-0"	W.B.	With Plaque
23	10+11+77	25'	R3-7R	Right Lane must turn Rt.	36"X36"	.063		9.0	1	Tube	2"	13'-6"	S.B.	
24	10+11+77	25'	R3-7L	Left Lane must turn Lt.	36"X36"	.063		9.0	1	Tube	2"	13'-6"	S.B.	

ILLUMINATION SCHEDULE

Station	Pole Offset		Pole Length	Mast Arm	Circuit	Junction Box	
	Lt.	Rt.				Lt.	Rt.
10+78+69							
10+78+64	35'		30'	10'	4-G		
10+10+60		29'	40'	8'	4-L		
10+79+44							28' (Type I)
10+79+46						43'	
10+79+50		28.5'	30'	6'	4-K		
10+80+40		28.5'	30'	6'	4-J		
10+10+66	20'		30'	6'	4-I		
10+81+15		31'	30'	6'	4-K		
10+81+85		29.5'	30'	6'	4-J		
* See Signalization Plans							
† Signalization & Luminaire combination - See Signalization Plans							

** Additional 8' mast arm 18' above base, clamp on or bolted for sign # 25 to provide 17'-0" clearance for 30x36 sign. Rigid mount for 120 mph wind to be approved by the engineer.

SIGNING & ILLUMINATION



1. Cap all conduit ends.
2. All junction boxes to be type 2.
3. Lighting std. @ left 85+30.89 to have add'l 2" RMC in base.

Note: Luminaires shall be high-pressure sodium, 250 Watts, ANSI, Type III medium-semi cutoff.

SIGNING SCHEDULE

No.	Station	Dist. from E		Code No.	Legend	Sign Panel Thickness				No. of Posts	Post				Facing Traffic	Remarks
		Lt.	Rt.			Size	Unframed	Framed	Area S.F.		Type	Size	Length	Embedment		
27	0+82+44	21'		D3-1	SHATTUCK wy.	8'X42"	.063		2.33	See Remark				E&W.B.	Mount with #28	
28	0+82+44	21'		D3-1	MARINE wy.	8'X35"	.063		1.94	1	Tube	2"	11'-0"	4'-0"	N&S.B.	
29	0+82+10		34'	D1-2	See plan	54'X102"		.080	38.25	2	Wood	4"x6" minimum	16'-0"	4'-6"	E.B.	Use break-away base per Std. Dwg. S-3400
30	0+82+55		34.5'	R3-8R	Y* Only	48'X48"	.080		16.00	See Remark				E.B.	Mount on luminaire std.	
31	0+83+20		31'	D3-1	MARINE wy.	8'X35"	.063		1.94	See Remark				W&E.B.	Mount on luminaire std.	
34	0+83+20		31'	D3-1	FERRY wy.	8'X33"	.063		1.83	See Remark				N&S.B.	Mount on luminaire std.	
36	Admiral Way	20'		R5-1	Do Not Enter	36"X36"	.063		9.00	1	Tube	2"	14'-0"	4'-0"	W.B.	
37	Admiral Way	20'		D3-1	ADMIRAL wy.	8'X39"	.063		2.17	See Remark				N.B.	Mount above #38A	
38	Admiral Way	20'		D3-1	s. FRANKLIN st.	8'X45"	.063		2.50	See Remark				E&W.B.	Mount above #38A	
38A	Admiral Way	20'		R1-1	Stop	30"X30"	.063		6.25	1	Tube	2"	16'-0"	4'-6"	E.B.	Mount below #37 & #38
39	S. Franklin St.	19'		R3-2	No Left Turn	30"X30"	.063		9.25	1	Tube	2"	13'-6"	4'-0"	N.B.	With Plaque
40	0+84+60	30'		M1-1	Alaska 7	24'X24"	.063		4.00	See Remark				W.B.	Mount on luminaire std.	
41	0+85+20	30'		R1-1	Stop	30"X30"	.063		6.25	1	Tube	2"	16'-0"	4'-6"	E.B.	
42	0+85+76 1/4	12'		R6-1L	One Way	36"X12"	.063		3.00	1	Tube	2"	12'-0"	4'-0"	E.B.	
43	0+85+76 1/4	12'		D3-1	FERRY wy.	8'X33"	.063		1.83	See Remark				N.B.	Mount above #42	
44	0+85+76 1/4	12'		D3-1	s. FRANKLIN st.	8'X45"	.063		2.50	See Remark				E.B.	Mount above #42	
44A	Admiral Way	20'		R6-1R	One Way ←	12x36"	.063		3.0	1	Tube	2"	16'-0"	4'-0"	N.B.	Mount above #44B & below #36
Sign #29, D1-2 shall be 8" O.C. 6" L.C. Series E																
45	0+85+20	30'		R6-1L	One Way	36x12"	.063		3.00	See Remark				E.B.	Mount above #41 & below #35 & #44	
46	Admiral Way	20'		R3-7L	Left Lane must turn left	36x36"	.063		9.00	1	Tube	2"	14'-0"	4'-0"	E.B.	
47	Admiral Way	20'		R3-7R	Right Lane must turn Rt.	36x36"	.063		9.00	1	Tube	2"	14'-0"	4'-0"	E.B.	
48	S. Franklin	19'		D1-1	Ferry →	48x12"	.063		4.00	1	Tube	2"	12'-0"	4'-0"	E.B.	6" U.C. #2 L.C. Letters
48B	Admiral Way	20'		R1-1	Stop	30x30"	.063		6.25	See Remark				E.B.	Mount below #44A & #36	

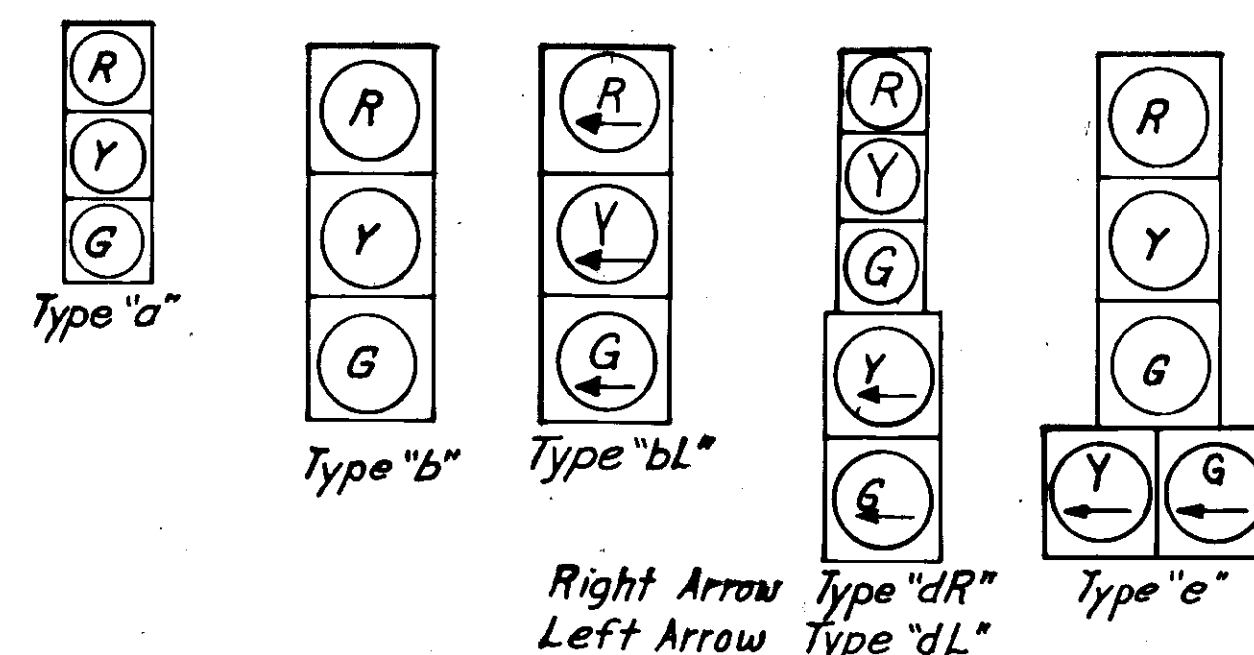
ILLUMINATION SCHEDULE

Station	Pole Offset		Pole Length	Mast Arm	Circuit	Junction Box	
	Lt.	Rt.				Lt.	Rt.
0+82+55		34.5'	30'	8'	4-K		
0+82+55							30'
0+83+13		38.5'	30'	8'	4-K		
0+83+20		35.0'	30'	8'	4-J		
0+83+20							32'
0+83+41							29.5'
0+83+90		31.0'	30'	8'	4-J		
0+84+60		31.0'	30'	8'	4-K		
0+85+30		31.0'	30'	8'	4-J		

(Type II)

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-1(4)	1973	18	88

SIGNALIZATION



GENERAL NOTES

- All arrow indications in signal heads 3, 6 & 7 shall be equipped with programed visibility heads. They shall be programed so as to be seen only by a driver in the crosshatched area as shown on the plans, or as directed by the engineer.
- Locations given are approximate and may be subject to minor field adjustment by the engineer.
- The controller shall be equipped with a flasher connected so that a red ball indication is flashed to Main St. and a yellow ball to Outer Drive.
- Magnetometers shall be under but not bonded to the pavement.
- Signal and luminaire mast arms are in the same plane.
- On phase A₃, B₁, P₂ with pedestrian call signal head #3 shall display green ball only.
- Install electron model H10 Tone decode, radio freq. 155.760 MHz, Tone freq. 1901 cps, Tone Auto Reset 1 1/2 min, with antenna for outside mounting to preemt phase to A₁, A₂ on control cabinet as directed by the engineer.

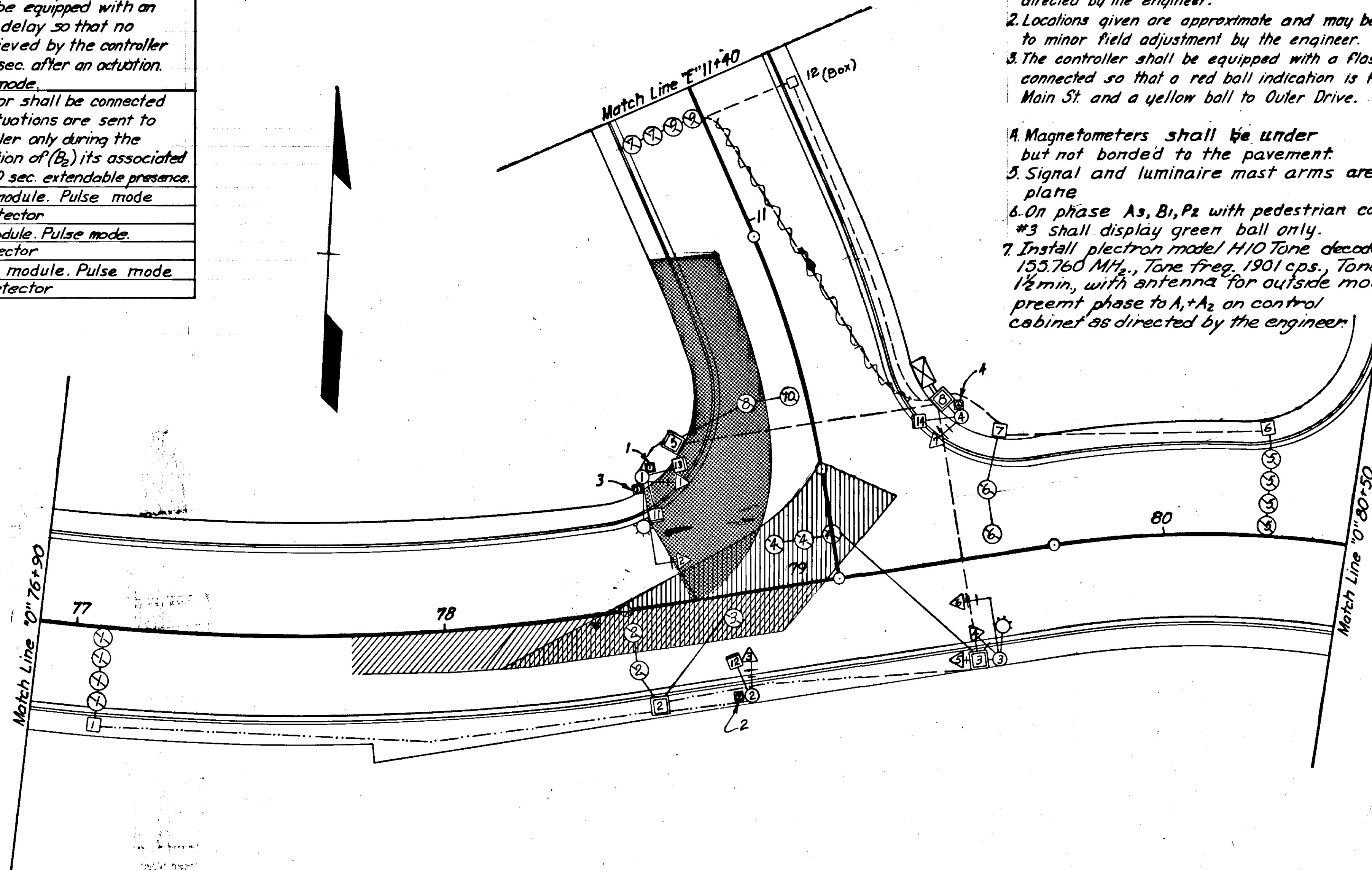
DETECTOR SCHEDULE

No.	Station	Offset	Phase	Operation
1	"0" 77+10	3, 9, 15, 21' Rt.	A ₁	Times the VD module pulse mode
2	"0" 78+50	6, 18' Rt.	A ₁	Calling detector
3	"0" 78+82-78+84	6' 4' Rt.	B ₂	This detector shall be connected so that actuations are sent to the controller only during the Green portion of Phase A ₁ . It shall also be equipped with an adjustable delay so that no call is recieved by the controller from 0-10 sec. after an actuation. Presence mode.
4	"0" 78+94 "0" 79+02.00 "0" 79+10.00	12' Lt. 12' Lt. 12' Lt.	B ₂	This detector shall be connected so that actuations are sent to the controller only during the Green portion of (B ₂) its associated phase. 0-10 sec. extendable presence.
5	"0" 80+28	3, 9, 15, 21' Lt.	A ₂	Time VDP module. Pulse mode
6	"0" 79+54	6, 18' 17' Lt.	A ₂	Calling detector
7	"E" 11+32	15, 21, 27, 33' Lt.	A ₂	Time VD module. Pulse mode.
8	"E" 10+51	6' Lt.	A ₃	Calling detector
9	"E" 11+32	3, 9, 8' Lt.	B ₁	Time VDP module. Pulse mode
10	"E" 10+51	18' 6' Lt.	B ₁	Calling detector

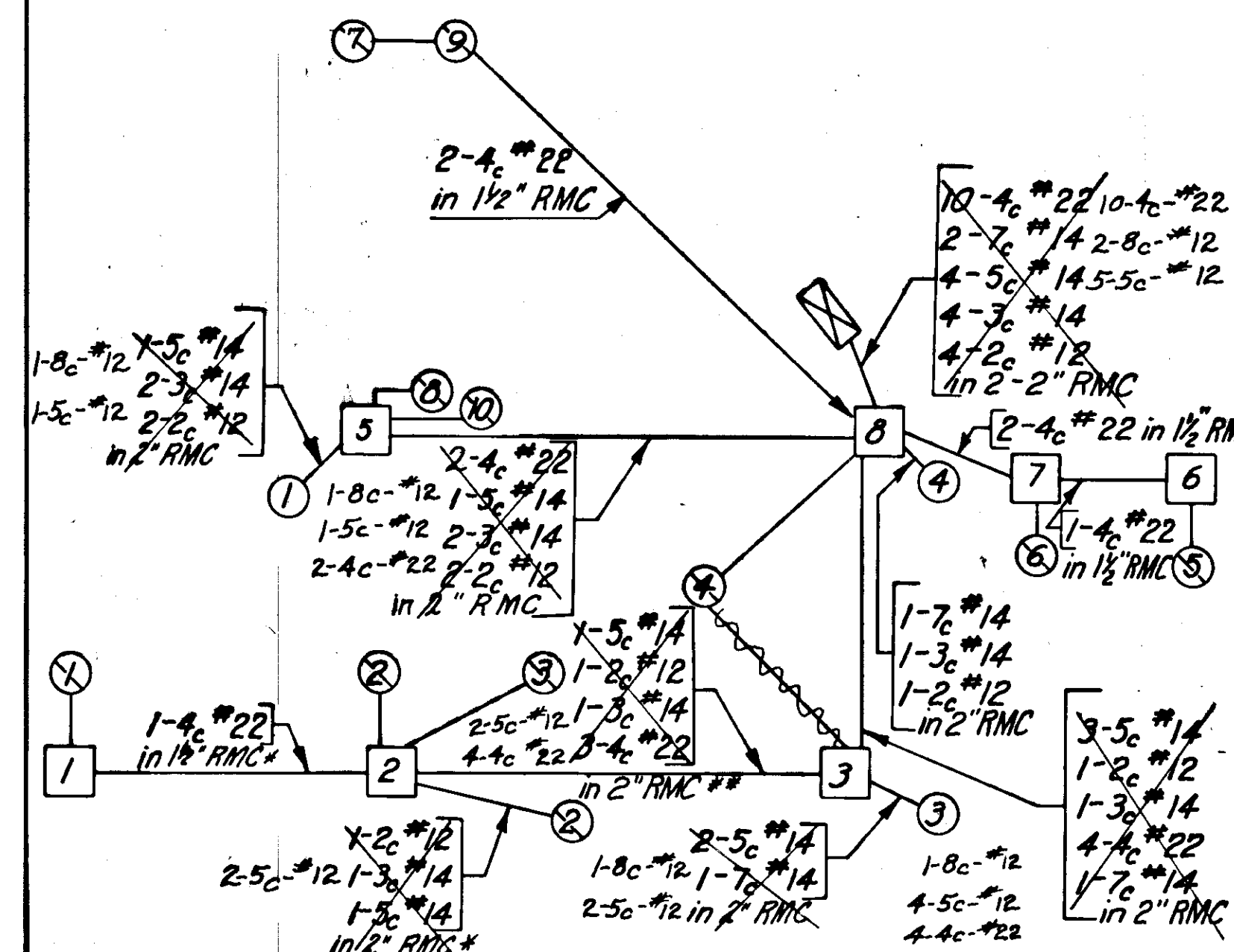
CONTROLLER

5 phase modular controller with
2-VD modules A₃ & A₁
2-VDP modules A₂, B₁
1-NVD module B₂

The controller shall have a Type "D"
controller base. "0" 79+42, 48' Lt.
Power Source: Illumination Load Center #4
at "0" 79+42, 48' Lt.



WIRING DIAGRAM



Note: All quantities listed below are approx. ** Approximately 55' of conduit in place. Approximately 35' required.

POLE SCHEDULE

No.	Station	Offset	Type	Height	Mast Arms	Remarks
1	"0" 78+60	35' Lt.	B	30'	10'	22'
2	"0" 78+81	29' Rt.	A	10'	-	-
3	"0" 79+50	29' Rt.	B	30'	8'	17'
4	"0" 79+50	37' Lt.	A	10'	-	-

* Base to be cast as part of retaining wall.

JUNCTION BOX SCHEDULE

No.	Station	Offset	Type	Remarks
1	"0" 77+10	29' Rt.	I	Existing New Box
2	"0" 78+56	28' Rt.	II	Existing
3	"0" 79+44	28' Rt.	I	In sidewalk See P 13
5	"0" 78+68	41' Lt.	II	At edge of sidewalk
6	"0" 80+26	29' Lt.	I	In sidewalk
7	"0" 79+60	33' Lt.	I	At edge of sidewalk
8	"0" 79+46	43' Lt.	II	At edge of sidewalk
9	"0" 81+15	31' Lt.	II	At edge of sidewalk
10	"0" 85+34	32' Lt.	II	In sidewalk
11	"0" 85+34	29' Rt.	II	In sidewalk
12	"E" 11+32	26' Rt.	II	In Sidewalk

SIGNAL HEADS

No.	Post	Lens Size	Type	Mounting	Phase
1	1	8"	"a"	S-1	A ₂
2	1	12"	"b"	Plumbizer	A ₂
3	2	8" & 12"	"dR"	T-1	A ₃
4	3	8"	"bL"	S-2	B ₁
5	3	8"	"a"	S-2	A ₁
6	3	12"	"e"	Plumbizer	B ₂
7	4	8" & 12"	"dL"	T-1	B ₂
11	1	Pedestrian W-DW	SW-2	P ₂	
12	2	Pedestrian W-DW	SW-1	P ₂	
13	1	Pedestrian W-DW	SW-2	P ₁	
14	4	Pedestrian W-DW	SW-1	P ₁	

CABLE & CONDUIT QUANTITIES

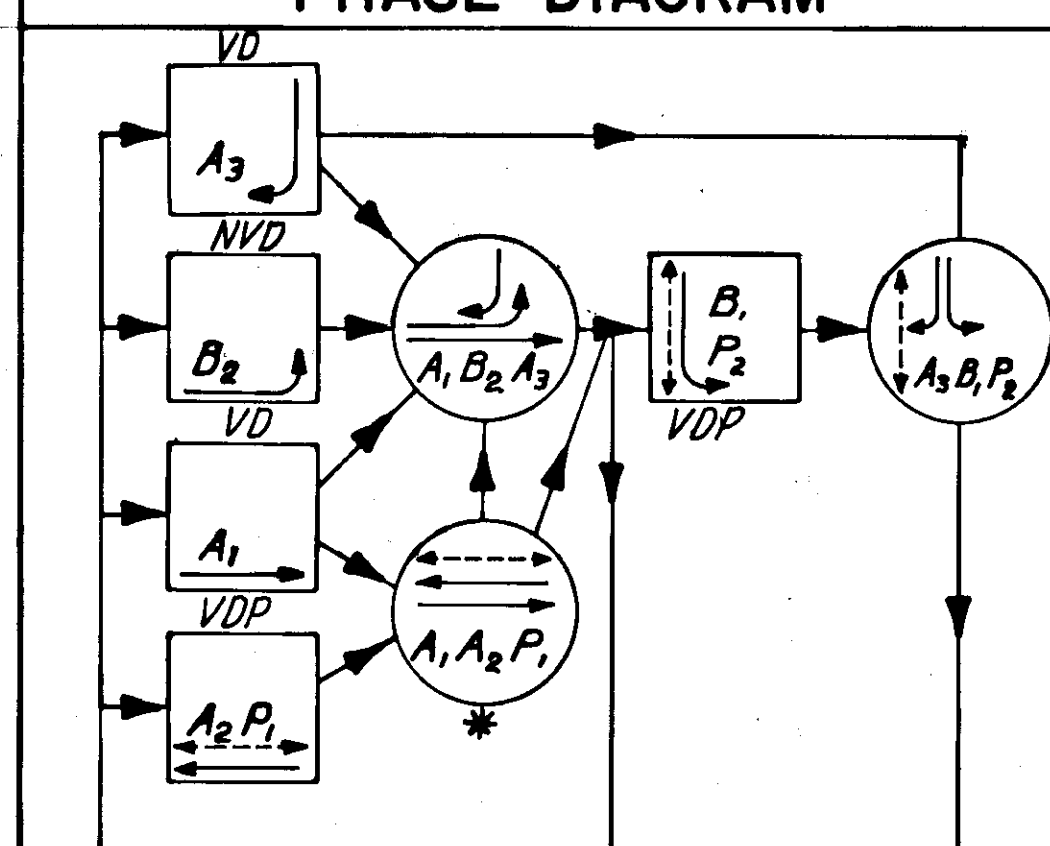
- 4c-#22 - Detector Lead-in --- 1520 ft.
5c-#14 - Signal, Vehicular --- 630 ft.
3c-#14 - Signal, Pedestrian --- 525 ft.
7c-#14 - Signal, Vehicular --- 180 ft.
2c-#12 - Push-Button Detectors --- 505 ft.

- 1 1/4" Rigid Metal Conduit --- 48 ft.
1 1/2" Rigid Metal Conduit --- 160 ft.
2" Rigid Metal Conduit --- 253 ft.

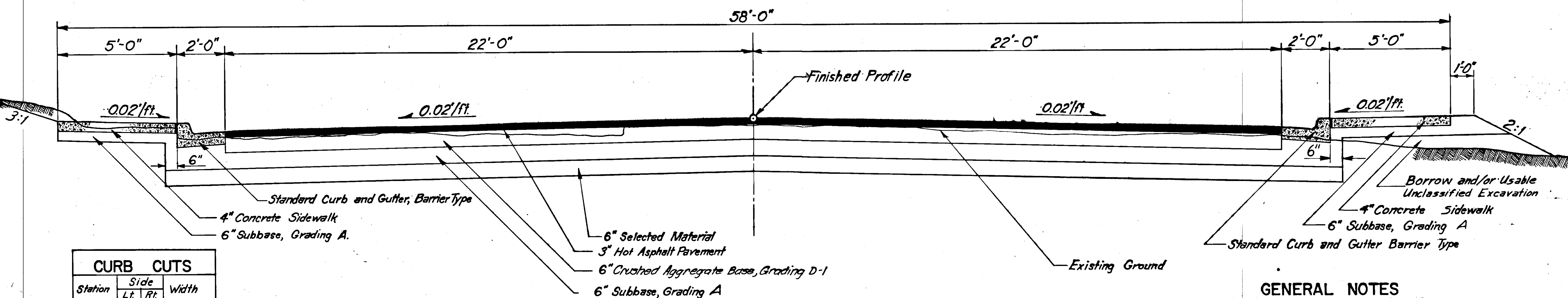
Note:

1 1/4" Conduit shall be used for magnetometer detector lead-ins under curb to J-Box as shown in Std. Dwg T-32.00. Lead-in cable from magnetometer to splice in J-Box shall be as recommended and supplied by magnetometer manufacturer.

PHASE DIAGRAM



* See General Note 7.



CURB CUTS			
Station	Side		Width
	Lt.	Rt.	
"E"11+38	X		58'72'*
"E"12+15	X		18'*
"E"13+81	X		42'*
"E"15+90	X		20'*
"E"17+07	X		18'*
"E"17+49		X	16'
"E"17+09		X	33.9'

* Curb and Gutter only - Proposed Utiliwalk.
 ** Curb and Gutter only - Match Existing Utiliwalk.

MAIN STREET
 TYPICAL SECTION OF IMPROVEMENT
 STA."E" 11+00.00 to STA."E" 21+00.00

GENERAL NOTES
 1. For General notes see sheet no. 2

SUMMARY TABLES

SEWER MAIN APPURTENANCES					
Station	Offset	Lt./Rt.	Invert Elev.	Cover Elev.	Structure No. Remarks
"E"13+05	5'	Lt.	22.07	26.68	M-1 Adjust Manhole
"E"13+36	13'	Lt.	23.72		Remove Manhole
"E"13+50	12'	Rt.	23.65	29.17	M-2 Install Manhole
"E"15+45	12'	Rt.	36.74	42.67	M-3 Install Manhole
"E"15+57	45.5'	Rt.	37.60	43.54	Adjust Manhole
"E"15+63	9'	Lt.		44.34	Remove Manhole
"E"17+75	9'	Lt.			Remove Manhole
"E"17+89	22'	Lt.		61.33	M-4A Install Manhole
"E"17+83	12'	Rt.	52.1204	61.11	M-4 Install Manhole
"E"20+04	11.5'	Rt.	73.5099	81.57	M-5 Install Manhole
"E"20+18	5.5'	Lt.	74.50	82.92	M-6 Adjust Manhole
"E"21+00	4.5'	Lt.	82.00	92.11	M-7 Install Manhole
S ₁₁ +24.19	5.0'	Lt.	71.55	76.86	M-4B Existing

Note: Cover Elevations are approximate only.

INSTALL SEWER MAINS				
Station to Station	Length	Offset	Size	Remarks
"E"17+83 to "E"17+89	34'		8"	Connect MH-4 to MH-4A *
"E"17+89 to Exist. M.H.	102'		8"	" " To Exist. M. H. *
"E"13+06 to "E"13+50	47'	5' Lt.-12' Rt.	12"	M-1 to M-2 *
"E"13+50 to "E"15+45	150'	12' Rt.	12"	M-2 to M-3 *
"E"15+45 to "E"17+83	158'	12' Rt.	12"	M-3 to M-4 *
"E"17+83 to "E"20+04	184'	12' Rt.	12"	M-4 to M-5 *
"E"20+04 to "E"20+12	22'	12' Rt.-6' Lt.	6"	M-5 to M-6 *
"E"20+04 to "E"21+00	76'	12' Rt.-4' Lt.	12"	M-5 to M-7 *
"E"17+83 to "S"10+60.9	62'		8"	Connect M-4 to existing 4" main.
* Install new A.C. pipe.				
Note: Distances are measured to C of Manholes				

CAST IRON SEWER CONDUIT FOR WATER LINE CROSSING				
Station	Offset from & to Junction of SL & WL	Size	Length	Remarks
"E"11+15 *				Service
"E"11+17.5	2.5' Lt.	15"	20'	Existing Main
"E"12+28	26.5' Rt.	10"	13'	Service
"E"12+54	4.5' Lt.	15"	20'	Existing Main
"E"13+53	12.5' Rt.	12"	11'	New Main
"E"13+62 *				Service
"E"14+17.5	12.0' Rt.	12"	20'	New Main
"E"14+28 *				Service
"E"14+98 *				Service
"E"15+39.5	12.0' Rt.	12"	14'	New Main
"E"15+64	12.0' Rt.	12"	20'	New Main
"E"15+82.5	12.0' Rt.	12"	20'	New Main
"E"15+97 *				Service
"E"16+32 *				Service
"E"16+84 *				Service
"E"16+89	12.0' Rt.	12"	20'	New Main Deleted
"E"17+30 *				Service
"E"17+38	12.0' Rt.	12"	20'	New Main Deleted
"E"17+92	11.5' Rt.	12"	17'	New Main
"E"18+17 *				Service
"E"19+45	12.0' Rt.	12"	20'	New Main
"E"20+27	8.5' Rt.	12"	20'	New Main
"E"20+36				Service
"E"13+21	40.0' Rt.	8"	35'	Existing Lateral
* Listed on Sewer Service Connection Summary				

REMOVAL OF INLETS & CATCH BASINS			
Station	Offset	Lt/Rt	Item
"E"11+44	24'	Lt.	Inlet
"E"11+44	3'	Rt.	Inlet
"E"12+44	2'	Rt.	Inlet
"E"12+51	24'	Lt.	Inlet
"E"13+50	1'	Lt.	Inlet
"E"13+58	24.5'	Lt.	Inlet
"E"15+77	2'	Lt.	Inlet
"E"18+85	5'	Rt.	Inlet
"E"18+12	1'	Lt.	Inlet
"E"20+18	27.5'	Lt.	Inlet
"E"20+40	10'	Lt.	Inlet
"E"20+54.50	12'	Rt.	Inlet
"E"20+85	10'	Lt.	Inlet
"E"20+40	12'	Rt.	Inlet

INSTALL WATER MAINS					
Sta. to Sta.	Offset	Lt./Rt.	Length	Size	Remarks
"E"11+00	26.5'	Rt.	217'	8"	Continuation of Q.D. III Main
"E"13+11	13'	Lt.	19'	10"	10" x 8" x 10" Tee
"S ₁₀ +51	9.5'	Lt.	3'	8"	Connect 10" C.I. to 8" C.I.
"E"13+11	26.5'	Rt.	243'	10"	
"E"15+54.60	26.5'	Rt.	238'	10"	10" x 10" x 6" Tee
"E"17+92					10" x 10" x 6" x 8" Cross
"S ₁₀ +68	Varies	Rt.	7'	6"	Connect to cross @ Sta. "E"17+92, 27' Rt. &
"S ₁₀ +73	Varies	Rt.	33'	8"	Connect to cross @ Sta. "E"17+92, 27' Rt. &
"S ₁₀ +56					
"E"17+92	26.5'	Rt.	181'	10"	
"E"19+92	Varies	Rt.	55'	10"	11 1/4" Bend
"E"20+27					10" x 10" x 6" x 6" Cross
"S ₁₀ +81	Varies	Rt.	17'	6"	Connect to new 10" x 10" x 6" cross "E"20+27, 19' Rt.
"S ₁₀ +97	Varies	Lt.	21'	6"	
"E"20+27	Varies	Rt.	59'	10"	11 1/4" Bend
"E"20+86					Connect to existing

WATER MAIN APPURTENANCES			
Station	Offset	Lt./Rt.	Remarks
"E"11+18	30'	Lt.	Install 4" Gate Valve
"E"12+98	30'	Rt.	Install Fire Hydrant & 3 L.F. of 6" Ductile Iron W.C.
"E"13+11	26'	Rt.	Install 8" Gate Valve
"S ₁₀ +49	9'	Lt.	Install 8" Gate Valve
"S ₁₀ +63	7'	Lt.	Install 10" Gate Valve
"E"13+15	26'	Rt.	Install 10" Gate Valve
"E"15+23	31'	Rt.	Install Fire Hydrant & 5 L.F. of 6" Ductile Iron W.C.
"E"15+45.52	26.5'	Rt.	Install 10" Gate Valve
"E"15+64.60	5.5' 26'	Lt.	Adjust Valve Box New 4" G.U.
"S ₁₀ +68	1.5'	Lt.	Install 6" Gate Valve
"E"15+57	26.5'	Rt.	Install 10" Gate Valve
"E"15+83	7'	Lt.	Adjust Valve Box 1" S.V.
"E"17+86	27'	Rt.	Install 10" Gate Valve
"E"19+46	26'	Lt.	Install 4" Gate Valve
"E"20+38.50	22'	Rt.	Install Fire Hydrant & 6 L.F. of 6" Ductile Iron W.C.
"S ₁₀ +70	7'	Rt.	Install 6" Gate Valve
"S ₁₀ +76	7'	Rt.	6" Gate Valve
"E"17+96	27'	Rt.	Install 10" Gate Valve
"E"20+23	19.5'	Rt.	Install 10" Gate Valve
"E"20+27	8'	Rt.	Adjust Valve Box
"E"20+31	18'	Rt.	Install 10" Gate Valve
"S ₁₀ +79	7'	Rt.	Adjust Valve Box
"S ₁₀ +70	10'	Lt.	Install 4" Gate Valve
"E"13+55	24'	Lt.	Remove Fire Hydrant
"E"15+79	32'	Lt.	Remove Fire Hydrant
"E"20+37	19.5'	Rt.	Remove Fire Hydrant

INSTALL SEWER SERVICE CONNECTIONS				
Station	Lt./Rt.	L.F. from Main	Size	Remarks
"E"11+05.13	Lt.	28'	4"	Install new AC service & connect to 15" main
"E"11+15	Rt.	32'	10"	" " C.I. " " " " "
"E"11+83	Lt.	26'	4"	" " AC " " " " "
"E"12+28.39	Rt.	33' **	10"	" " AC " " " " "
"E"13+62.64	Rt.	18'	4"	" " C.I. " " " " new 12" main
"E"13+80.32	Lt./Rt.	50'	4"	" " AC " " " " "
"E"14+28.21	Rt.	18'	4"	" " C.I. " " " " "
"E"14+66.69	Lt./Rt.	42'	4"	" " AC " " " " "
"E"14+98	Rt.	18'	4"	" " C.I. " " " " "
"E"15+97.02	Rt.	18'	4"	" " " " " " " " "
"E"16+32.33	Rt.	18'	4"	" " " " " " " " "
"E"16+80	Lt./Rt.	42'	4"	" " " " " " " " "
"E"16+84.89	Rt.	18'	4"	" " " " " " " " "
"E"17+30.04	Lt./Rt.	46'	4"	" " " " " " " " "
"E"18+17.25	Rt.	18'	4"	" " " " " " " " "
"E"18+3+28	Lt./Rt.	21'	8"	" " AC " " " " "
"E"19+28	Lt./Rt.	20'	4"	" " " " " " " " "
E 20+36	Rt.	18'	6"	" " C.I. " " " " "
"E"13+25	Lt./Rt.	40.4'	6"	" " A.C. " " " " "
"E"15+82	Lt./Rt.	36'	4"	" " A.C. " " " " "
S ₃ 11+04	Lt.	12'	4"	" " " " " " " " "
S ₃ 11+24	Lt.	14'	4"	" " " " " " " " "

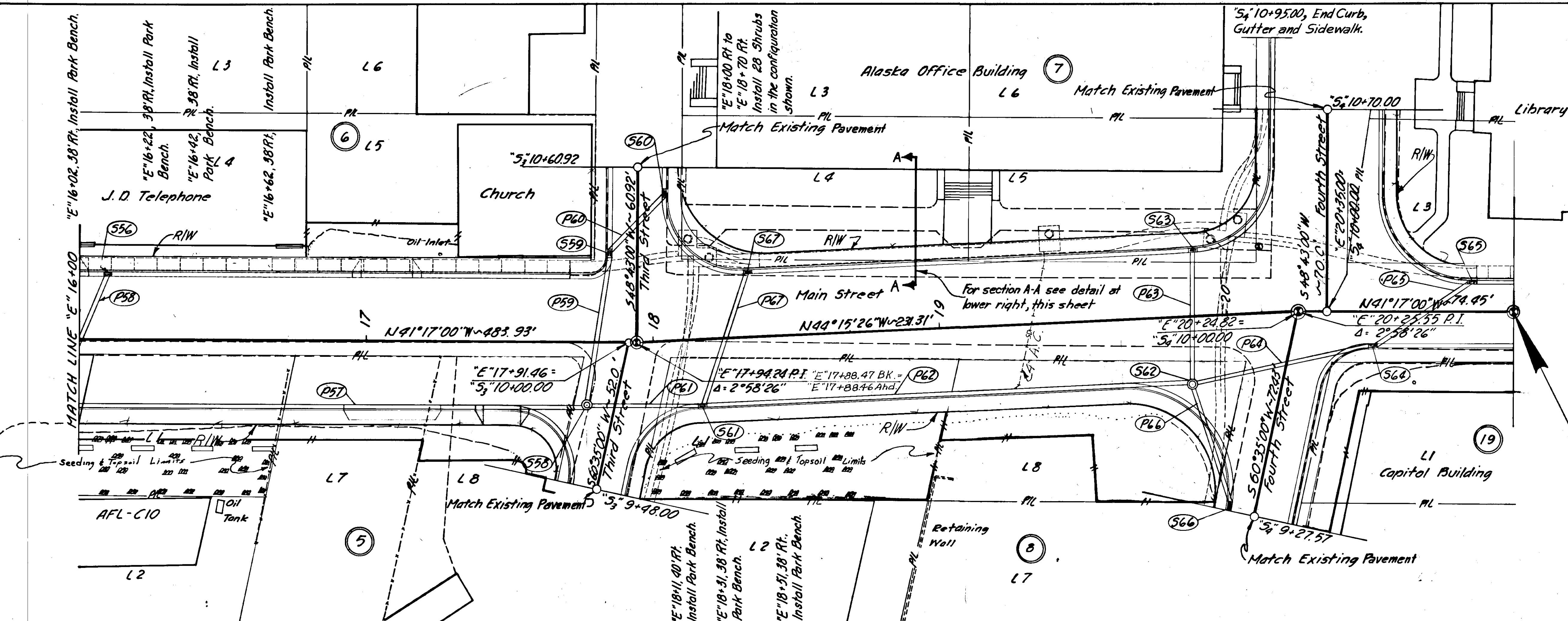
* Reference to & ** Length shown includes C.I. conduit for Water Line crossing.

MONUMENT SUMMARY				
Station	Location	Remarks	Monuments	Cases
"E"12+96.32	25.44' Lt.	City Monument 51 (Reset)	① Not Recovered	
"E"13+10.31	&	P.I.	1	1
"E"17+94.24	&	P.I.	1	1
"E"20+12.30	23.22' Lt.	City Monument 69 (Reset)	① Not Recovered	
"E"20+25.53	&	P.I.	1	1
"E"21+00.00	&	P.O.T. End of Project	1	1

15" CONC. SEWER ENCASEMENT				
Station	Offset	Lt./Rt.	Length	Size
"E"11+18	2'	Lt.	20'	15"
"E"12+50	4'	Lt.	20'	15"

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-1(4)	1973	22	82

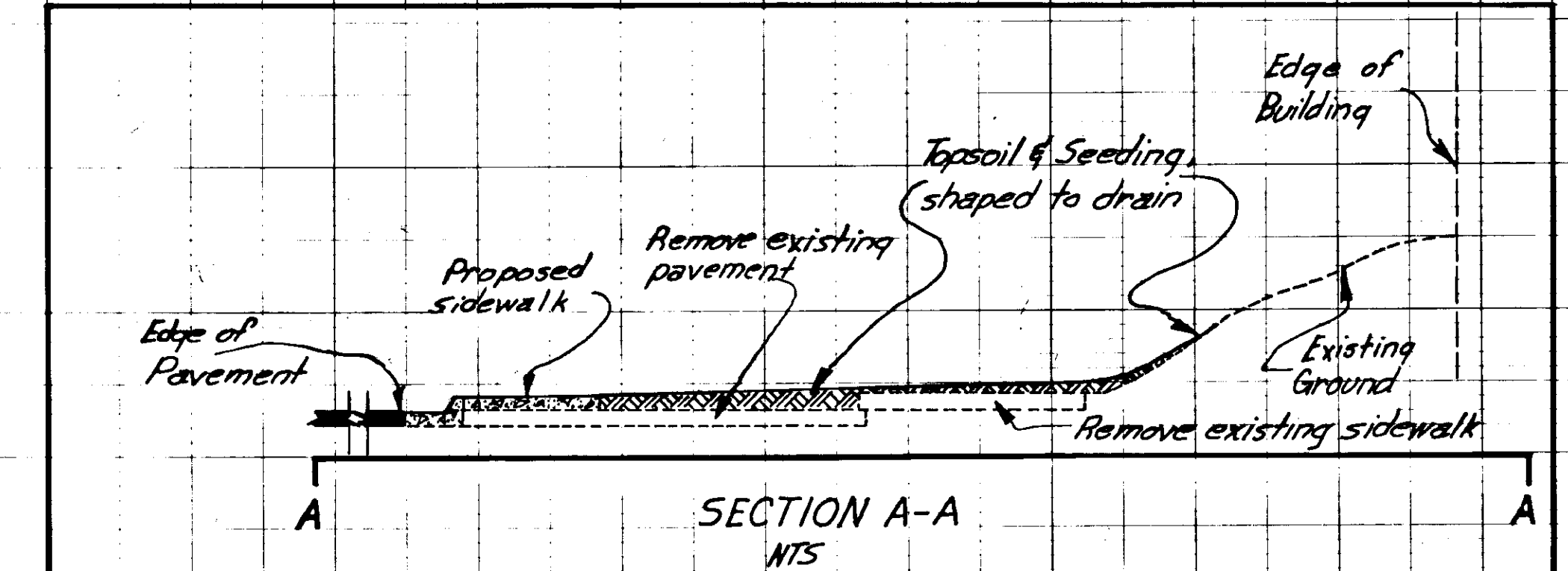
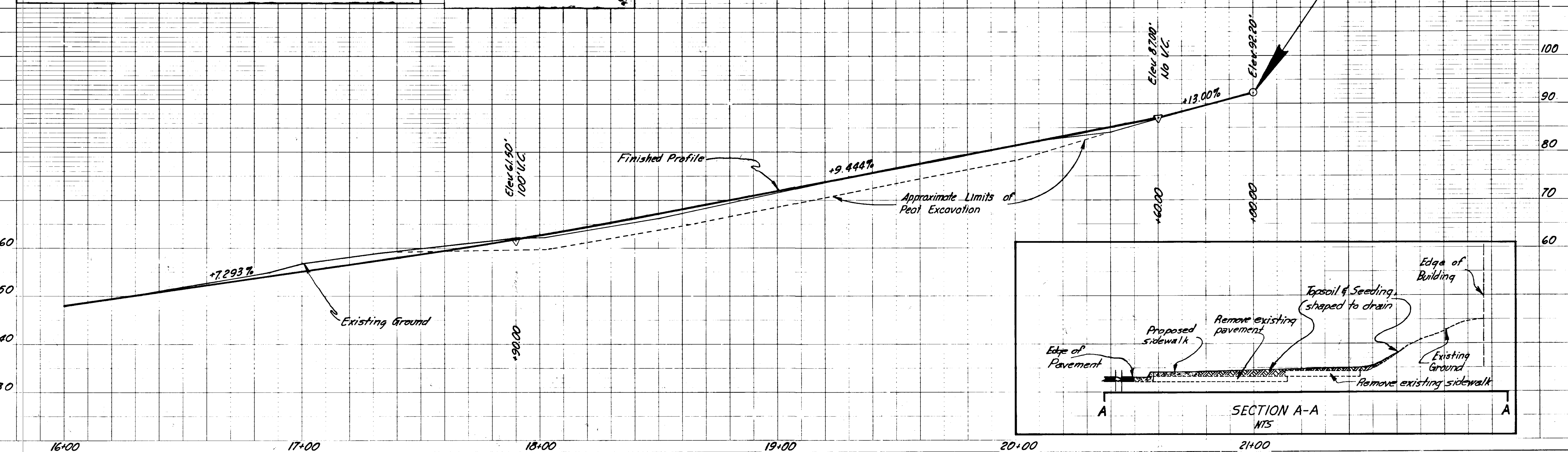
NOTE: All Shrubbery Shall Consist of Mountain Hemlock (*Tsuga heterophylla*) (Snipped Terminal)

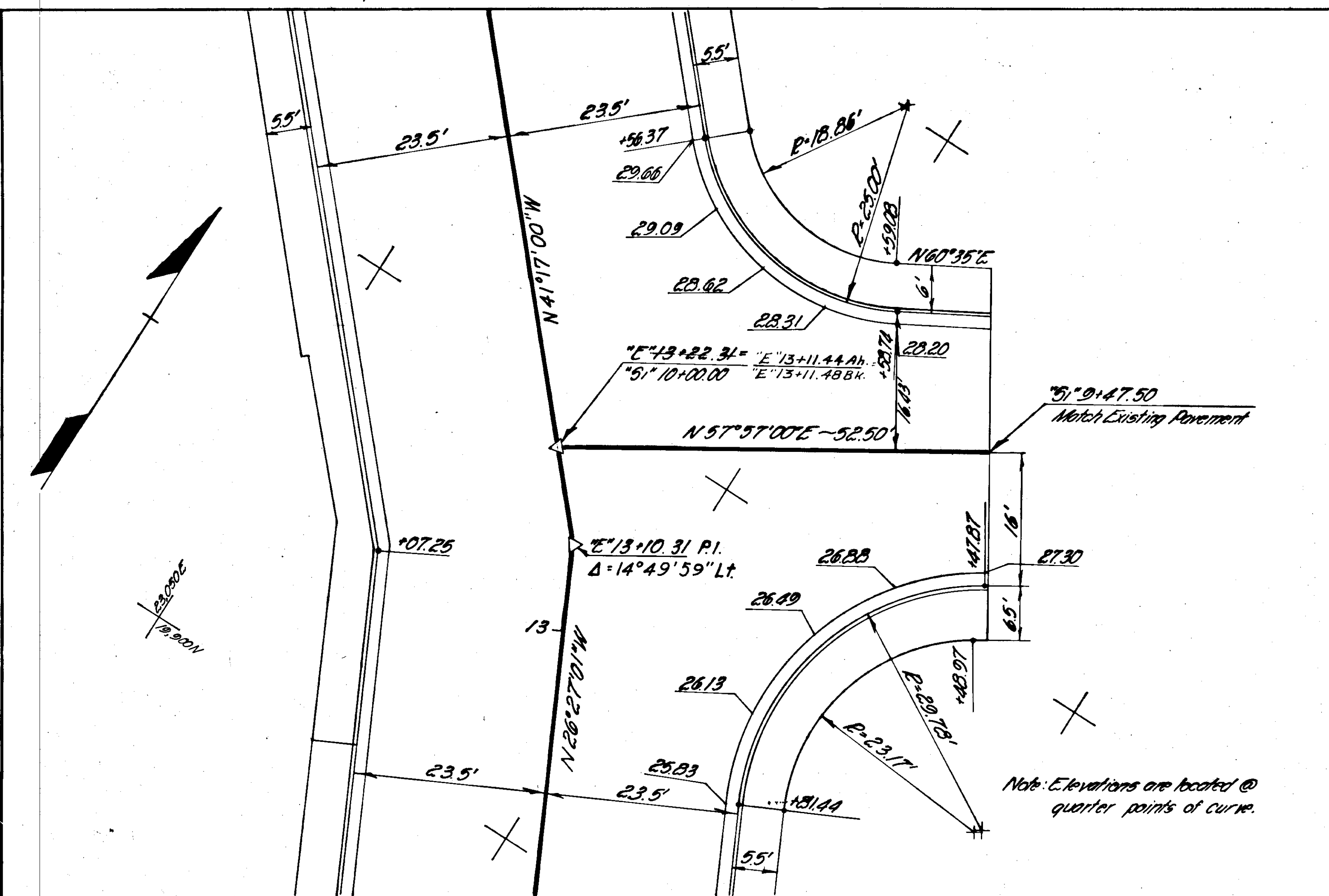


MAIN STREET
END OF PROJECT
F-093-1(4)
STA. "E" 21+00.00

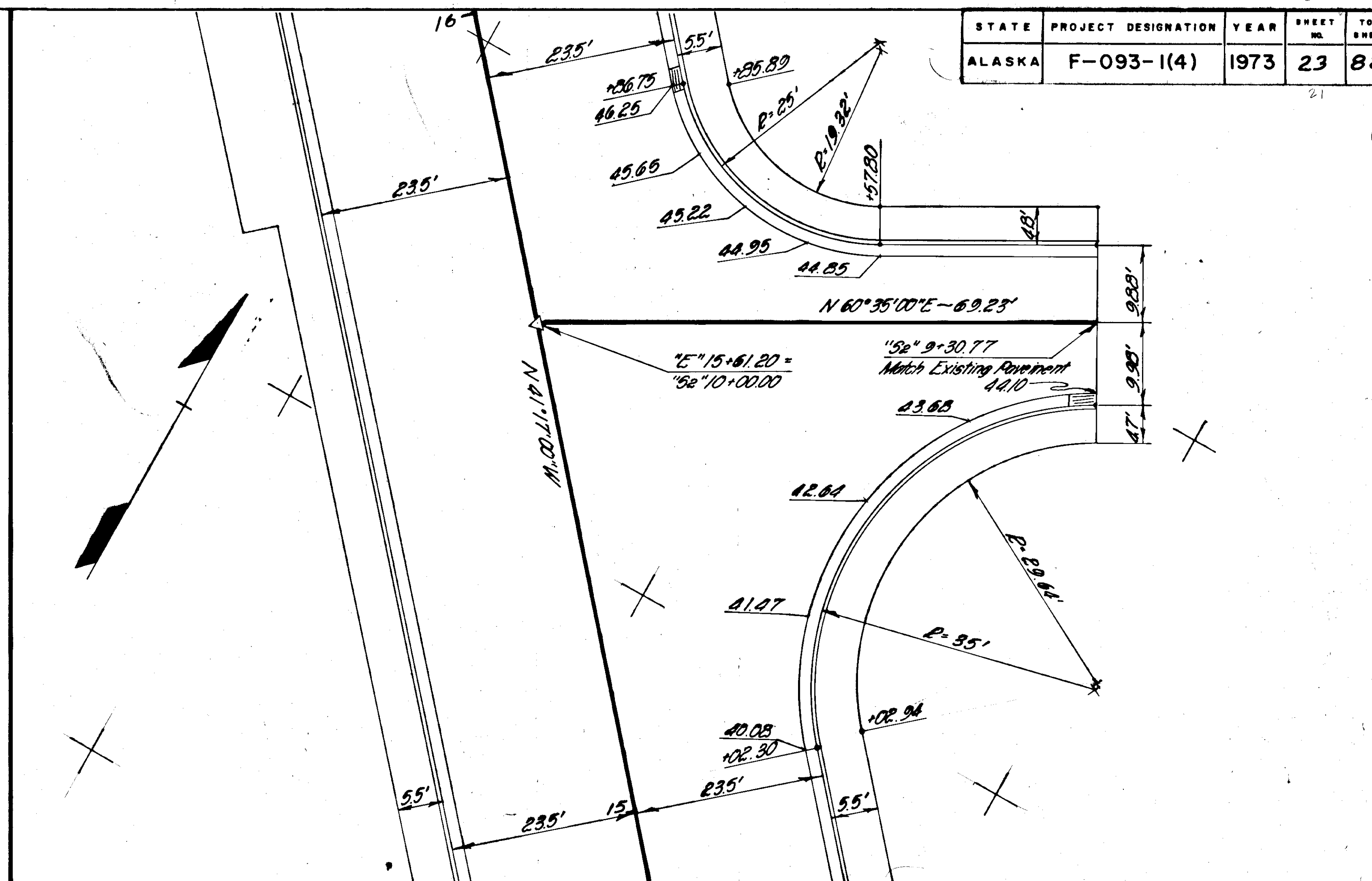
Embankment = 1226 Cu Yds. (Includes 527 Cu Yds. Selected Material)
Excavation = 2136 Cu Yds. (Includes 1900 Cu Yds. Waste)
Borrow = 1014 Cu Yds.

TBM#3 East bolt head in
fire hydrant 3rd and Main
Elev. 68.07'

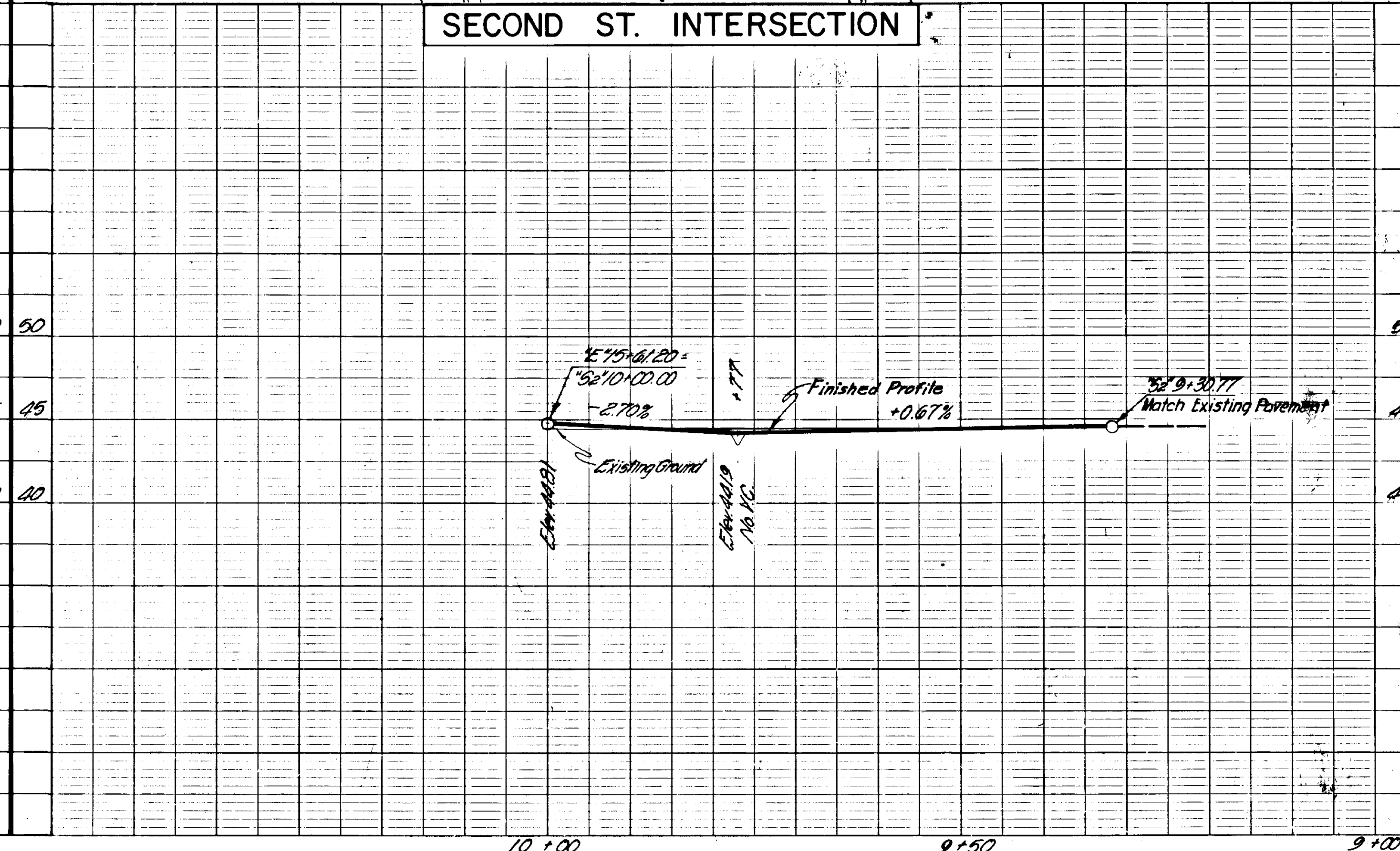
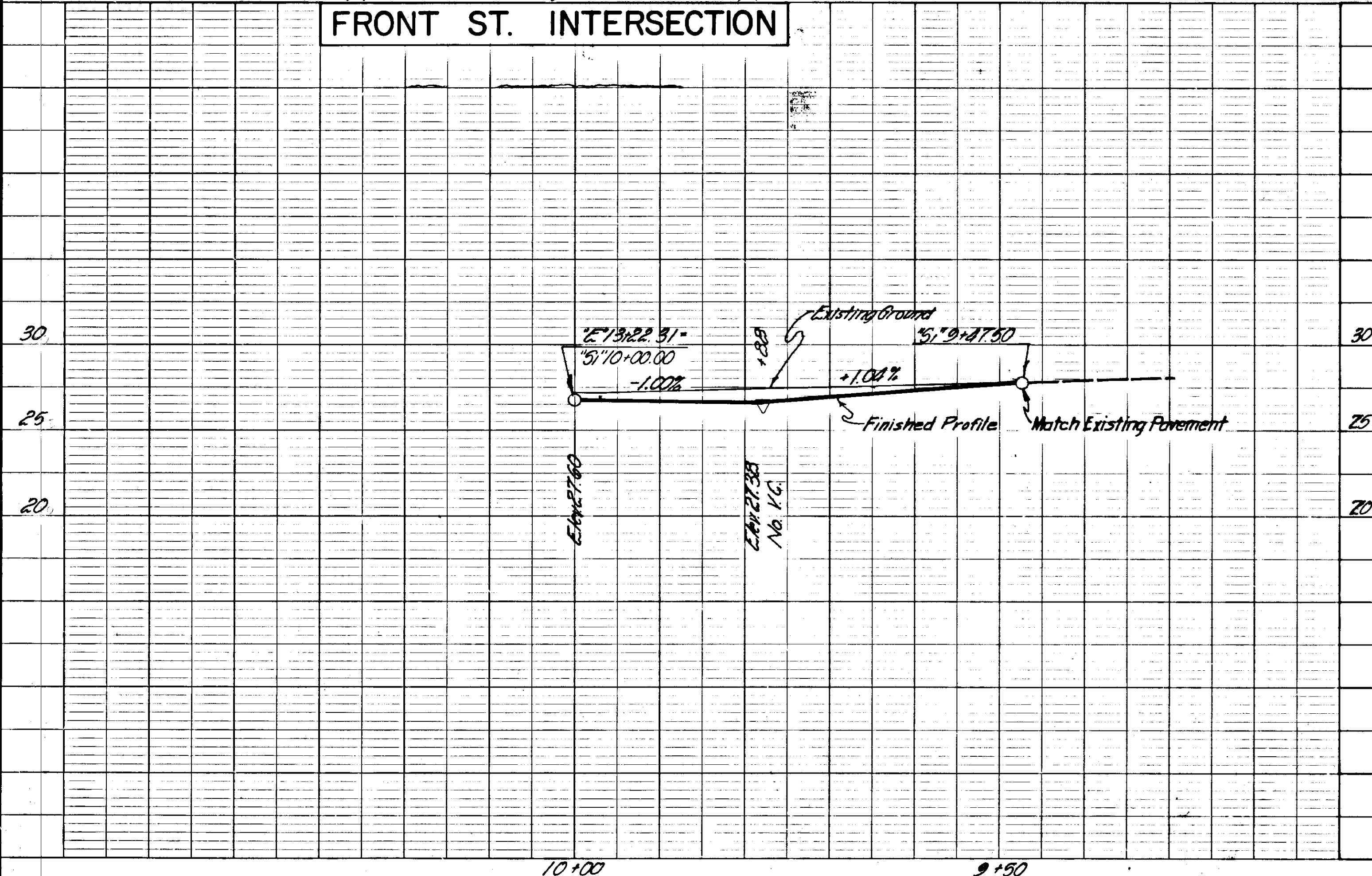


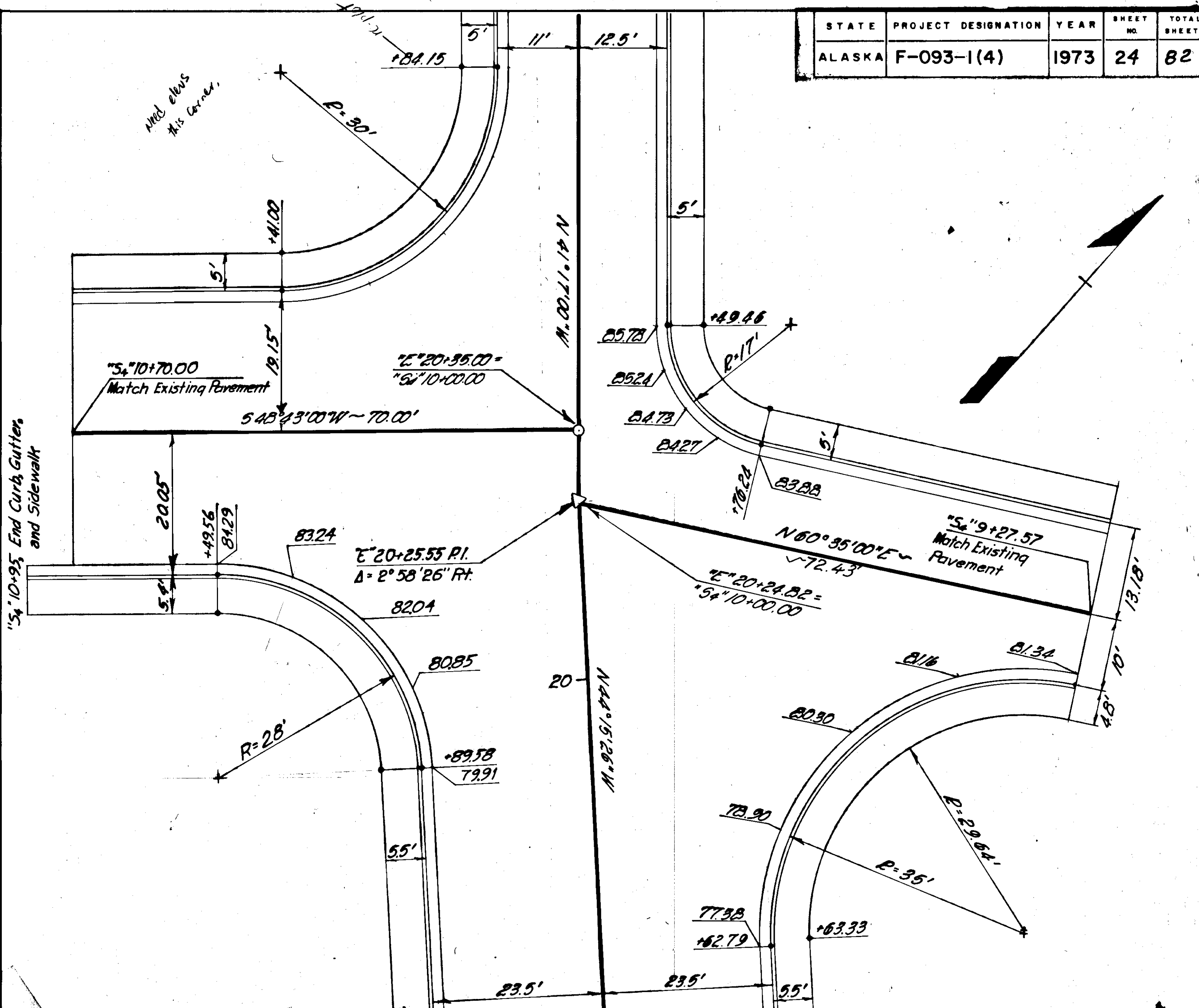


FRONT ST. INTERSECTION



SECOND ST. INTERSECTION





FOURTH ST. INTERSECTION



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEET
ALASKA	F-093-1(4)	1973	25	82

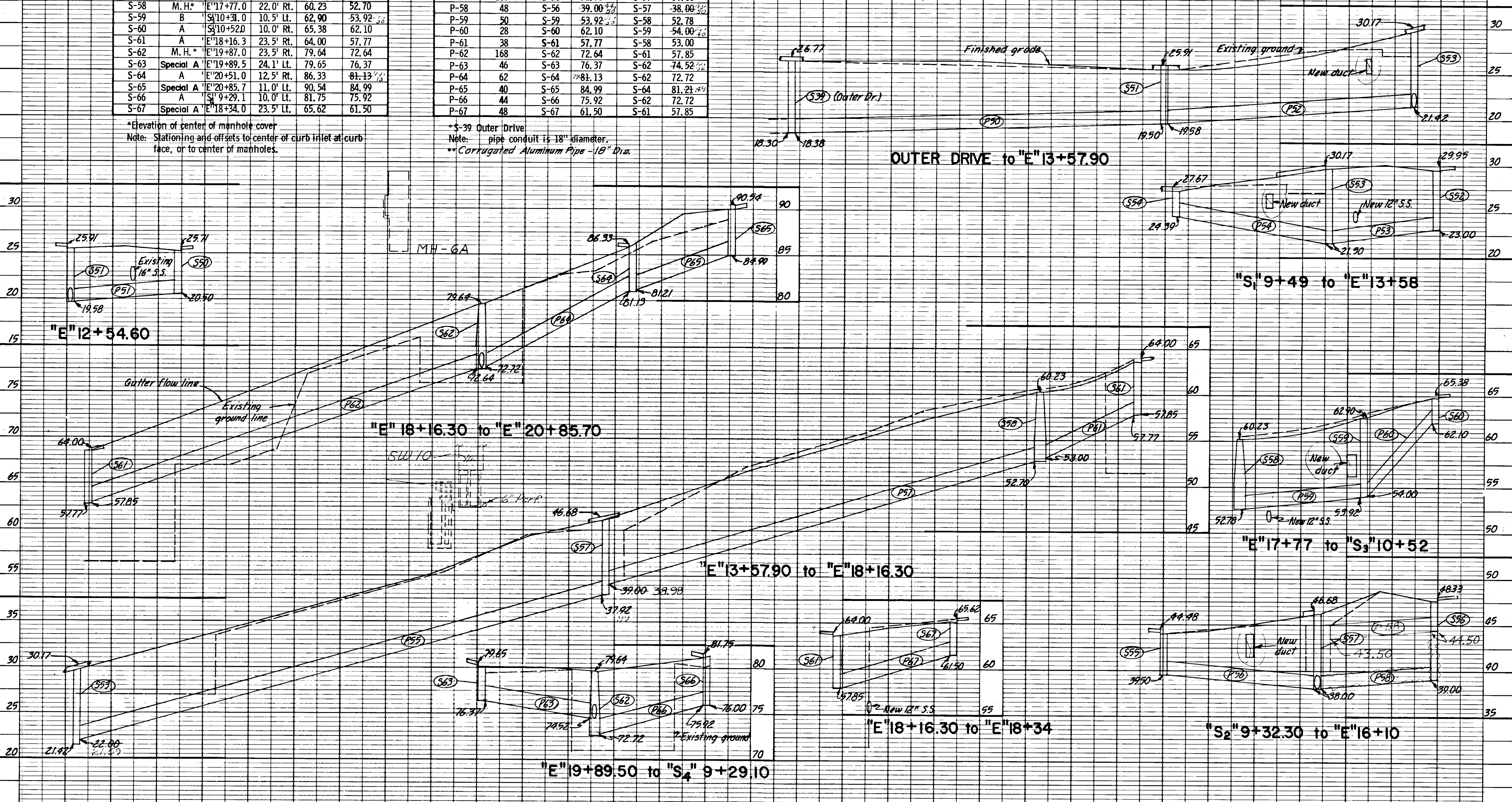
DRAINAGE PROFILES

DRAINAGE STRUCTURE SUMMARY				
INLET NO.	TYPE	LOCATION		INVERT ELEV.
		STATION	OFFSET	
S-50	Special A	"E"12+54.6	23.5' Lt.	25.71
S-51	B	"E"12+54.6	23.5' Rt.	25.91
S-52	Special A	"E"13+58.0	23.5' Lt.	29.95
S-53	B	"E"13+57.9	23.5' Rt.	30.17
S-54	Special A	"S"9+49.0	16.0' Lt.	27.67
S-55	Special A	"S"9+32.3	10.0' Lt.	44.48
S-56	Special A	"E"16+10.0	23.5' Lt.	48.33
S-57	B	"E"15+87.4	23.5' Rt.	46.68
S-58	M.H.*	"E"17+77.0	22.0' Rt.	60.23
S-59	B	"S"10+52.0	10.0' Lt.	62.10
S-60	A	"S"10+52.0	10.0' Rt.	65.38
S-61	A	"E"18+16.3	23.5' Rt.	64.00
S-62	M.H.*	"E"19+87.0	23.5' Rt.	79.64
S-63	Special A	"E"19+89.5	24.1' Lt.	79.65
S-64	A	"E"20+85.7	12.5' Rt.	86.33
S-65	Special A	"E"20+85.7	11.0' Lt.	90.54
S-66	A	"S"9+29.1	10.0' Lt.	81.75
S-67	Special A	"E"18+34.0	23.5' Lt.	65.62

*Elevation of center of manhole cover
Note: Stationing and offsets to center of curb inlet at curb face, or to center of manholes.

PIPE SUMMARY					
PIPE NO.	LENGTH (FT.)	FROM		TO	
		STRUCT.	INV. ELEV.	STRUCT.	INV. ELEV.
** P-50	160	S-51	19.50	S-39*	18.38
P-51	44	S-50	20.50	S-51	19.58
P-52	106	S-53	21.42	S-51	19.58
P-53	44	S-52	23.00	S-53	21.50
P-54	64	S-54	24.39	S-53	21.50
P-55	228	S-57	37.92 ⁹⁹	S-53	22.00 ⁵⁴
P-56	64	S-55	39.50	S-57	38.00
P-57	186	S-58	52.70	S-57	39.00
P-58	48	S-56	39.00 ⁴⁴	S-57	38.00 ⁵⁰
P-59	50	S-59	53.92 ⁴⁰	S-58	52.78
P-60	28	S-60	62.10	S-59	54.00 ⁴⁰
P-61	38	S-61	57.77	S-58	53.00
P-62	168	S-62	72.64	S-61	57.85
P-63	46	S-63	76.37	S-62	74.52 ²²
P-64	62	S-64	81.13	S-62	72.72
P-65	40	S-65	84.99	S-64	81.21 ⁴⁹
P-66	44	S-66	75.92	S-62	72.72
P-67	48	S-67	61.50	S-61	57.85

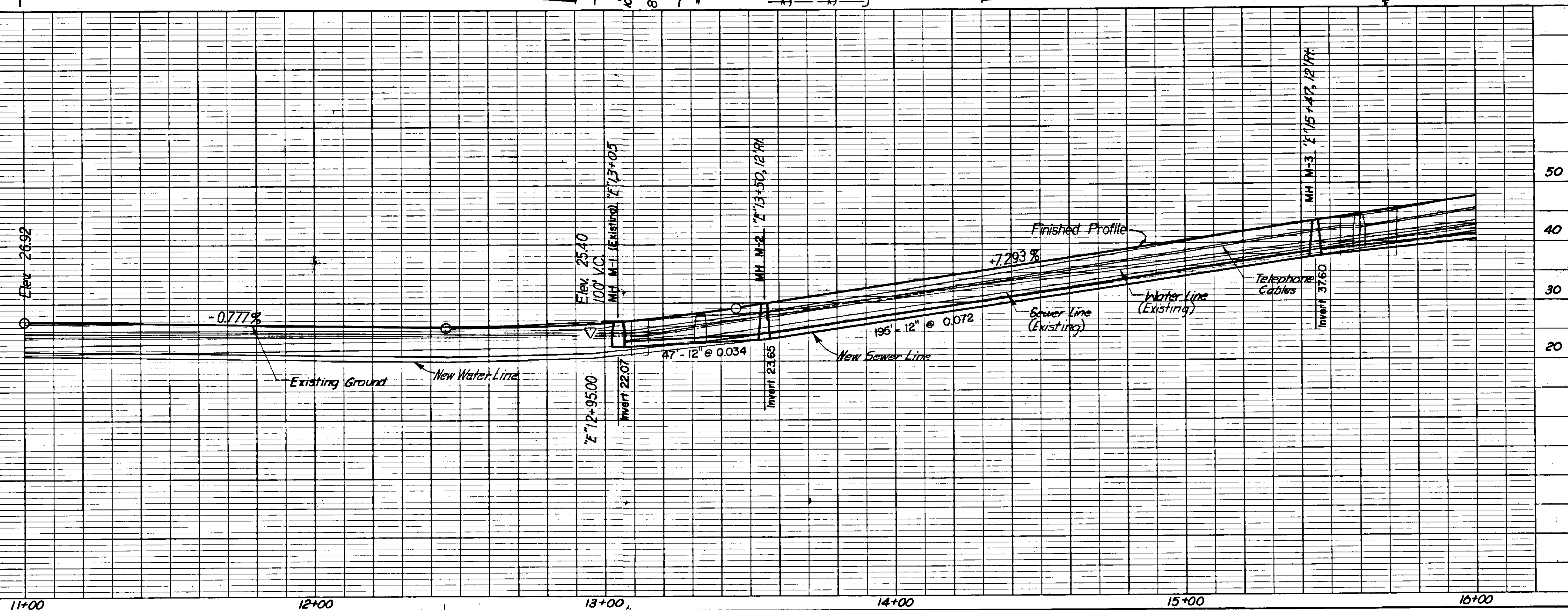
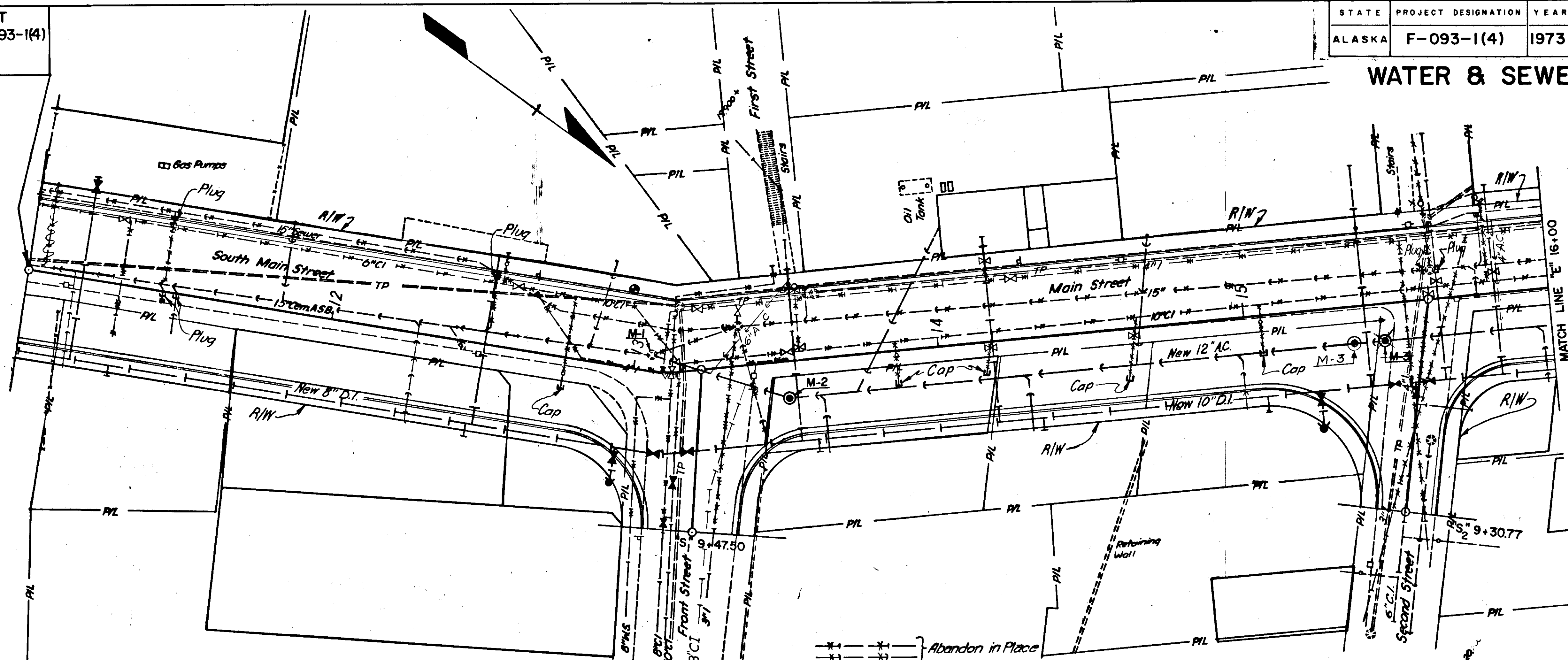
*S-39 Outer Drive
Note: pipe conduit is 18" diameter.
**Corrugated Aluminum Pipe - 18" Dia.

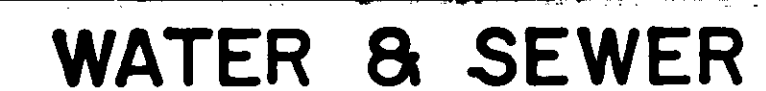


MAIN STREET
BEGIN PROJECT F-093-1(4)
STA. "E" 11+00.00

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-1(4)	1973	26	82

WATER & SEWER





SIGN PANNEL THICKNESS SCHEDULE																
No.	Station	Dist. from C.		Code No.	Legend	Sign Pannel Thickness				Post				Facing Traffic	Remarks	
		Lt.	Rt.			Size	Unframed	Framed	Area S.F.	No. of Posts	Type	Size	Length			Embedment
101	"E"11+61		28'	R2-1	Speed Limit 25	30"X30"	.063		6.25	See Remark				N.B.	Mount on luminaire std.	
102	"E"11+61		28'	R7-1A	No Parking	12"X18"	.063		1.50	See Remark				E.B.	Mount on luminaire std.	
103	"E"11+90	28.5'		R7-1A	No Parking	12"X18"	.063		1.50	1	Tube	2"	16'-0"	6'-6"	N.B.	
104	"E"15+00	29'		R2-1	Speed Limit 25	30"X30"	.063		6.25	See Remark				S.B.		
105	"E"12+95		34'	D3-1	MAIN st.	8"X27"	.063		1.50	See Remark				W&E.B.	Mount above "206"	
106	"E"12+95		34'	D3-1	FRONT st.	8"X31"	.063		1.72	See Remark				W&S.B.	Mount below "205"	
107	"E"12+81		28'	R3-1	No Right Turn Y*	30"X30"	.063		9.25	1	Tube	2"	16'-0"	6'-6"	N.B.	Mount on Lt. Pole with plaque
108	"E"13+00		39'	R1-1	Stop	30"X30"	.063		6.25	1	Tube	2"	16'-6"	6'-6"	W.B.	
109	"E"13+00		39'	R6-1R	One Way →	36"X12"	.063		3.00	See Remark				E.B.	Mount with #208	
110	"S"9+65		23'	R6-16	One Way →	36"X12"	.063		3.00	See Remark				N.B.	Mount above #211 & 212 and below #205 & 206.	
111	"S"9+65		23'	R1-1	Stop	30"X30"	.063		6.25	1	Tube	2"	16'-6"	6'-6"	W.B.	Mount below #205, 206, 206A
112	"S"9+65		23'	R5-1	Do Not Enter	36"X36"	.063		9.00	See Remark				E.B.	Mount below #205, 206, 206A	
114	"E"13+40	29'		R3-2	No Left Turn ↖	30"X30"	.063		9.25	1	Tube	2"	18'-6"	6'-6"	S.B.	With plaque
116	"E"14+35		28'	R7-1A	No Parking	12"X18"	.063		1.50	1	Tube	2"	13'-6"	5'-0"	E.B.	
119	"E"15+73		35'	D3-1	MAIN st.	8"X27"	.063		1.50	1	Tube	2"	12'-0"	5'-0"	W&E.B.	
120	"E"15+73		35'	D3-1	SECOND st.	8"X35"	.063		1.94	See Remark				S&N.B.	Mount with #219	
121	"E"15+50	29'		R7-1A	No Parking	12"X18"	.063		1.50	1	Tube	2"	13'-6"	5'-0"	W.B.	
122	"E"15+87		28'	R2-1	Speed Limit 25	30"X30"	.063		6.25	See Remark				N.B.	Mount on Luminaire Std.	
124	"E"11+90	28.5'		R3-7R	Right Lane Must Right	36"X36"	.063		9.00	See Remark					Mount below #203 facing N.W.	

[illegible]

Note: For general illumination notes see sheet #15.
Luminaires shall be high pressure sodium, 400 watt, ANSI type III, medium-semi cutoff.

Match Line "E" 16+00.00

THIRD STREET

FOURTH STREET

MAIN STREET

ONLY

Stationing: $S_3 \cdot 10+60.92$, $S_4 \cdot 10+95.00$, $S_4 \cdot 10+70.00$, $S_3 \cdot 9+48.00$, $S_4 \cdot 9+27.57$

Curve Data: $E \cdot 17+91.46 = S_3 \cdot 10+00.00$, $E \cdot 11+99.24 = S_3 \cdot 10+00.00$, $E \cdot 20+35.00 = S_4 \cdot 10+00.00$, $E \cdot 20+24.02 = S_4 \cdot 10+00.00$

Points: 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247

Other labels: $E.O.P. Sta "E" 21+00.00$, $S_3 \cdot 17$, $S_4 \cdot 20$

SIGNING SCHEDULE															
No.	Station	Dist. from L		Code No.	Legend	Sign Panel Thickness			No. of Posts	Post			Facing Traffic	Remarks	
		Lt.	Rt.			Size	Unframed	Framed		Area S.F.	Size	Length			Embedment
223	"E" 16+70		28'	R7-1A	No Parking	12"X18"	.063		1.50	1	Tube			E.B.	
224	"E" 16+85	28.5'		R7-1A	No Parking	12"X18"	.063		1.50	1	Tube	2"	13'-6"	5'-0"	W.B.
225	"S" 9+59	20'		D3-1	MAIN st.	8"X27"	.063		1.50	See Remark					E & W.B.
226	"S" 9+59	20'		D3-1	THIRD st.	8"X30"	.063		1.67	See Remark					N & S.B.
227	"E" 17+40		28'	R3-1	No Right Turn	30"X30"	.063		6.25	See Remark					N.B.
229	"S" 9+59	20'		R1-1	Stop	30"X30"	.063		6.25	1	Tube	2"	16'-6"	6'-6"	W.B.
230	"S" 9+59	20'		R5-1	Do Not Enter	36"X36"	.063		9.00	See Remark					E.B.
232	"S" 9+67		17'	R1-1	Stop	30"X30"	.063		6.25	1	Tube	2"	16'-6"	6'-6"	W.B.
233	"S" 9+67		17'	R5-1	Do Not Enter	36"X36"	.063		9.00	See Remark					E.B.
234	"S" 10+35	14'		R1-1	Stop	30"X30"	.063		6.25	1	Tube	2"	16'-0"	6'-6"	E.B.
235	"S" 10+35	14'		D3-1	MAIN st.	8"X27"	.063		1.50	1	Tube	2"	12'-0"	5'-0"	E & W.B.
236	"S" 10+35		14'	D3-1	THIRD st.	8"X30"	.063		1.67	See Remark					N & S.B.
237	"E" 18+40	29'		R3-2	No Left Turn	30"X30"	.063		9.25	1	Tube	2"	16'-0"	6'-6"	S.B.
238	"E" 19+63		28'	R3-7R	Right Lane Must Turn Right	36"X36"	.063		9.00	1	Tube	2"	18'-0"	6'-6"	N.B.
239	"E" 18+95		28'	R7-1A	No Parking	12"X18"	.063		1.50	See Remark					E.B.
240	"E" 19+20	29'		R2-1	Speed Limit 25	30"X30"	.063		6.25	1	Tube	2"	16'-0"	6'-6"	S.B.
241	"S" 10+42	30'		D3-1	MAIN st.	8"X27"	.063		1.50	1	Tube	2"	12'-0"	5'-0"	E & W.B.
242	"S" 10+42	30'		D3-1	FOURTH st.	8"X34"	.063		1.89	See Remark					N & S.B.
243	"S" 10+42	30'		R1-1	Stop	30"X30"	.063		6.25	1	Tube	2"	16'-0"	6'-6"	E.B.
244	"E" 20+41	30'		D3-1	MAIN st.	8"X27"	.063		1.50	1	Tube	2"	12'-0"	5'-0"	E & W.B.
245	"E" 20+41		22'	D3-1	FOURTH st.	8"X34"	.063		1.89	See Remark					N & S.B.
246	"E" 20+41		22'	R1-1	Stop	30"X30"	.063		6.25	1	Tube	2"	16'-0"	6'-6"	W.B.
247	"E" 18+20	20'		R3-5R	" ONLY	30"X36"	.063		7.5	See Remarks					

Luminaires shall be high pressure sodium, 400 watt, ANSI Type III, medium-semi cutoff.

[illegible]

*Additional 8' mast arm at 18' above base, clamp-on or bolted for sign #247 to provide 17'0" clearance for 30"x36" sign
Rigid mount for 120 M.P.H. wind, to be approved by the engineer.



PHOTO 1967

SYMBOLS

GENERAL

—S—	SEWER
—W—	WATER
—PS—	PUMPED SEWER
—P/L—	PITCHED DOWN
—P/L—	PROPERTY LINE
***	FENCE
S/L—SL—	STREET LIGHTING
+	UTILITY POLE - EXISTING
+	UTILITY POLE - RELOCATED OR NEW
+	CATCH BASIN
+	FIRE HYDRANT
+	SHUT OFF VALVE
KO	KNOCK OUT
—O—S—	SEWER MANHOLE
ⓐ	JUNCTION BOX
ⓐ	ABANDONED
ⓐ	CONNECTED TO EXISTING
ⓐ	RELOCATED OR REPLACED
ⓐ	UNDERGROUND
ⓐ	REMOVED
ⓐ	EXISTING

POLE 2(2)	POLE NUMBER 2 ON SECOND STREET
L 20	LOT 20
AELIP	ALASKA ELECTRIC LIGHT AND POWER
A08	ALASKA OFFICE BUILDING
ASHA	ALASKA STATE HOUSING AUTHORITY
HH	HAND HOLE
HSS	HEALTH AND SOCIAL SERVICES
JDTCO	JUNEAU DOUGLAS TELEPHONE CO.
LB	CONDUIT FITTING
MH	MANHOLE
NIC	NOT IN CONTRACT
RC	RIGID CONDUIT
SS	STAINLESS STEEL
UG	UNDERGROUND
VAR	VARIES
WP	WATER PROOF
18'A	DISTANCE OF PULLING IRON ABOVE FLOOR

POWER

—P— P	POWER
—P— P	EXISTING PRIMARY POWER
—P— P	INSULATING BUSHING ON END OF CONDUIT
①	PRIMARY CONNECTION NUMBER
②	SECONDARY CONNECTION NUMBER
1φ	SINGLE PHASE POWER
3φ	THREE PHASE POWER

TRI	TRIPLEX
QUAD	FOUR WIRE
SEC	SECONDARY
PRI	PRIMARY
WH	WEATHERHEAD
HVMH	HIGH VOLTAGE MANHOLE - NIC

TELEPHONE

—T— T	TELEPHONE
—T— T	EXISTING OVERHEAD TELEPHONE
—T— T	EXISTING UNDERGROUND TELEPHONE
—T— T	CENTREX - NIC
—T— T	UTILIWALK

— — —	NEW CONDUIT
***	REMOVED OR ABANDONED
—O—	TELEPHONE MANHOLE
MDF	MAIN DISTRIBUTION FRAME

FIRE ALARM

—FA— FA	FIRE ALARM
—FA— FA	EXISTING FIRE ALARM
—FA— FA	FIRE ALARM POWER FOR LIGHT 120/240V 1φ

△	FIRE ALARM PULL BOX
FA24	FIRE ALARM PULL BOX NUMBER 2-4
○ FAPB	FIRE ALARM POWER J-BOX

EXISTING PRIMARY POWER DISTRIBUTION
1" = 100' - 0"



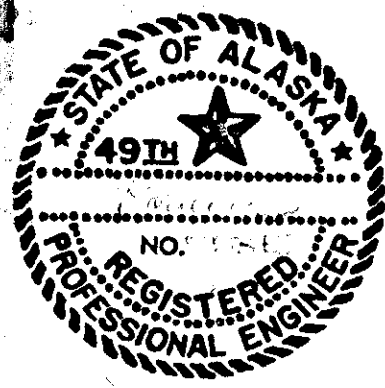
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-1(4)	1973	31	



PHOTO 1967

EXISTING COMMUNICATION SYSTEM

PRINCIPAL CABLES ONLY
1"=100'-0"

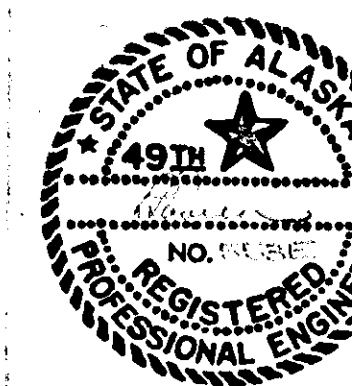


STATE	PROJECT DESIGNATION	YEAR	SHEET NO.
ALASKA	F-093-1(4)	1973	32

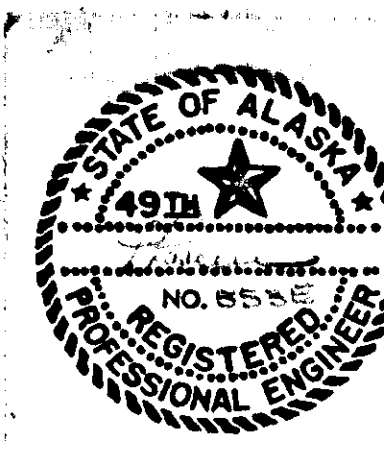
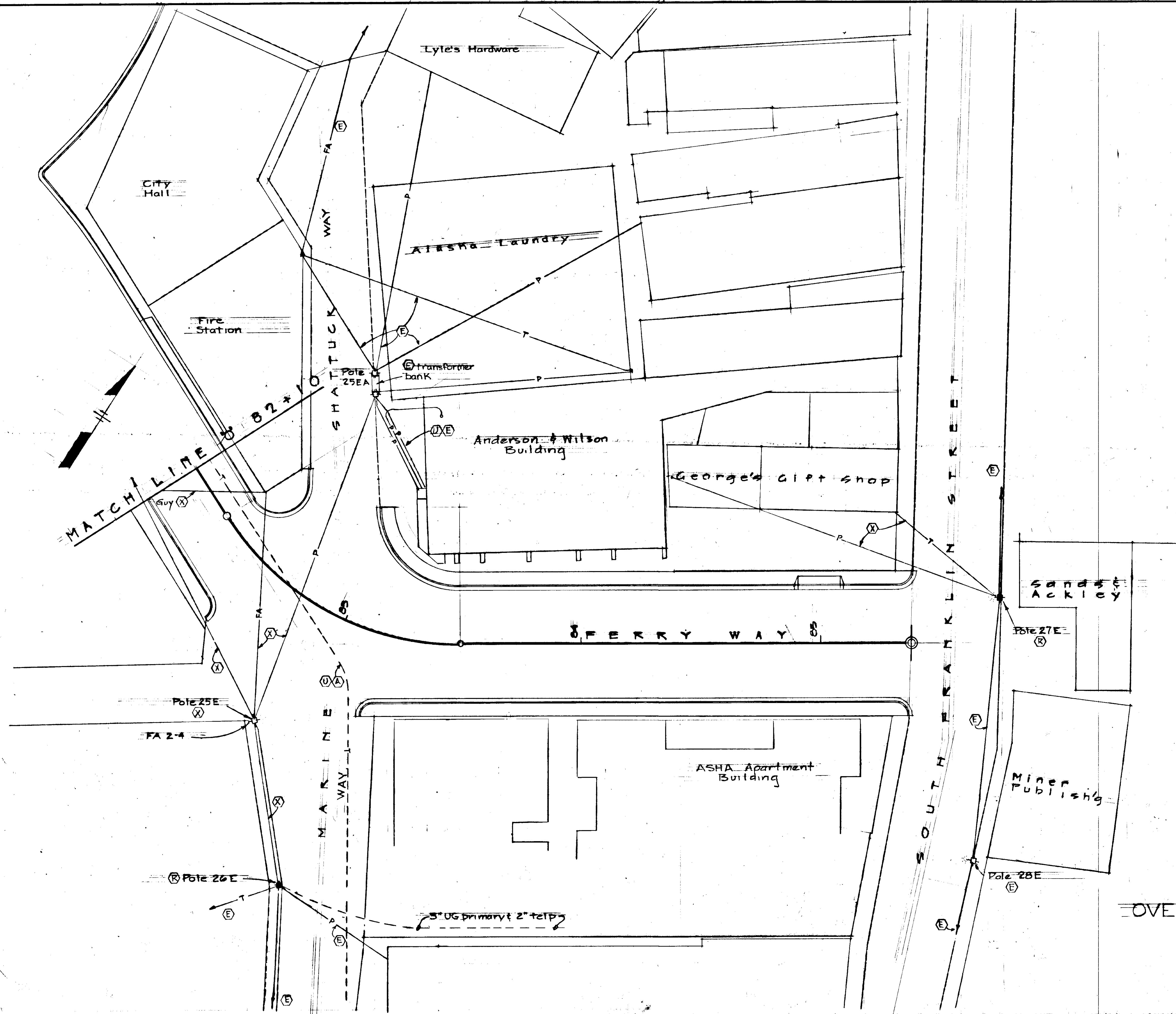


PHOTO 1967

EXISTING FIRE ALARM SYSTEM
1" = 100'-0"



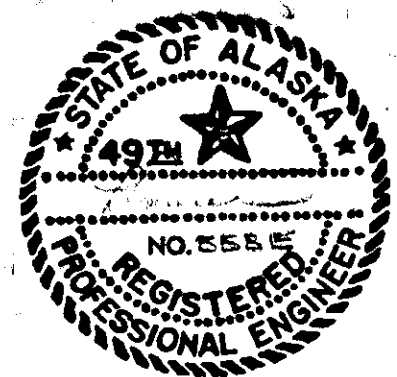
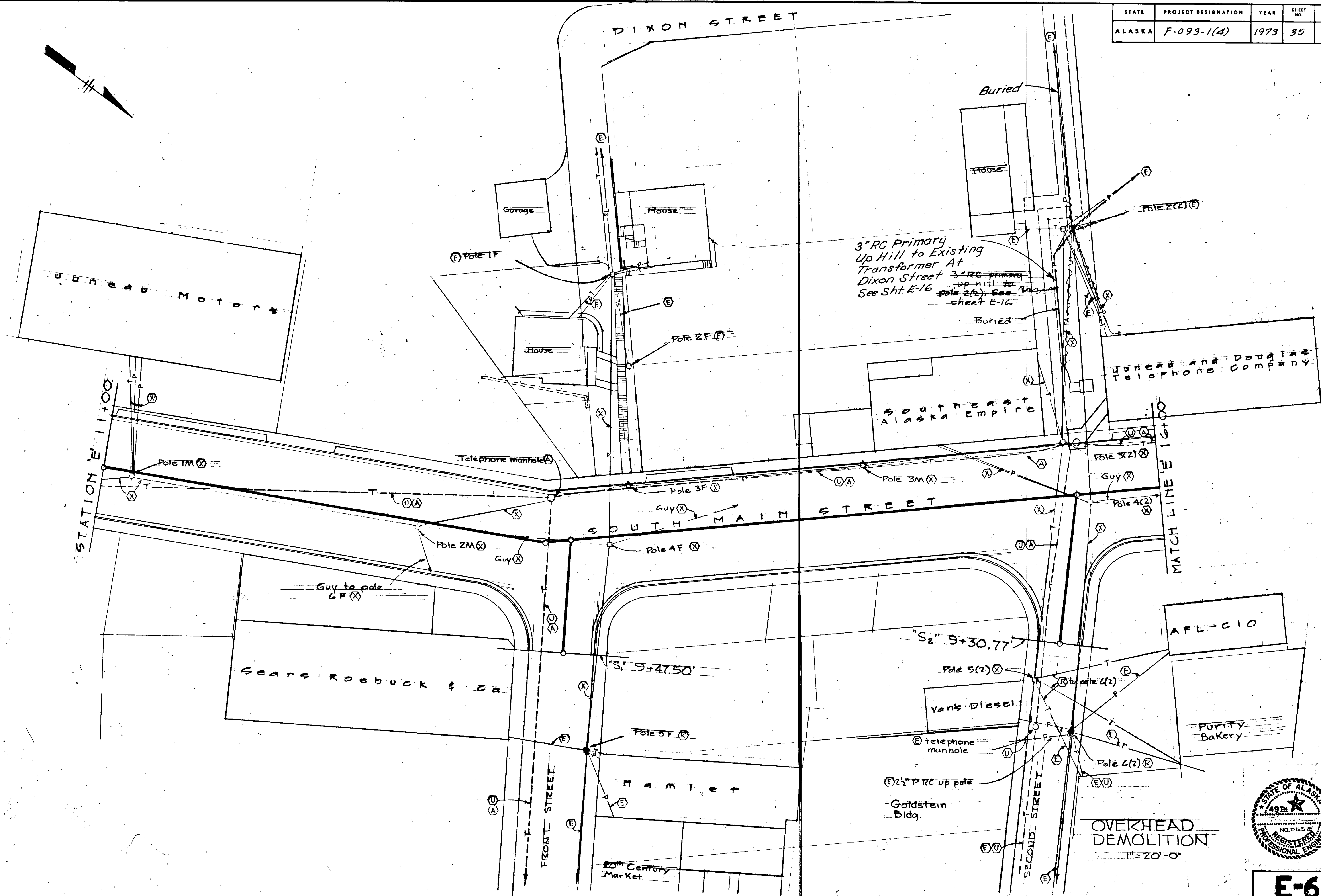
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOT. SHEETS
ALASKA	F-093-1(4)	1973	34	



OVERHEAD DEMOLITION
1" = 20'-0"

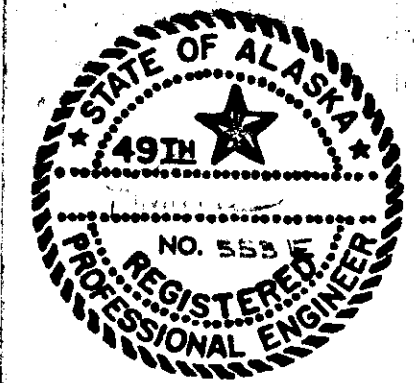
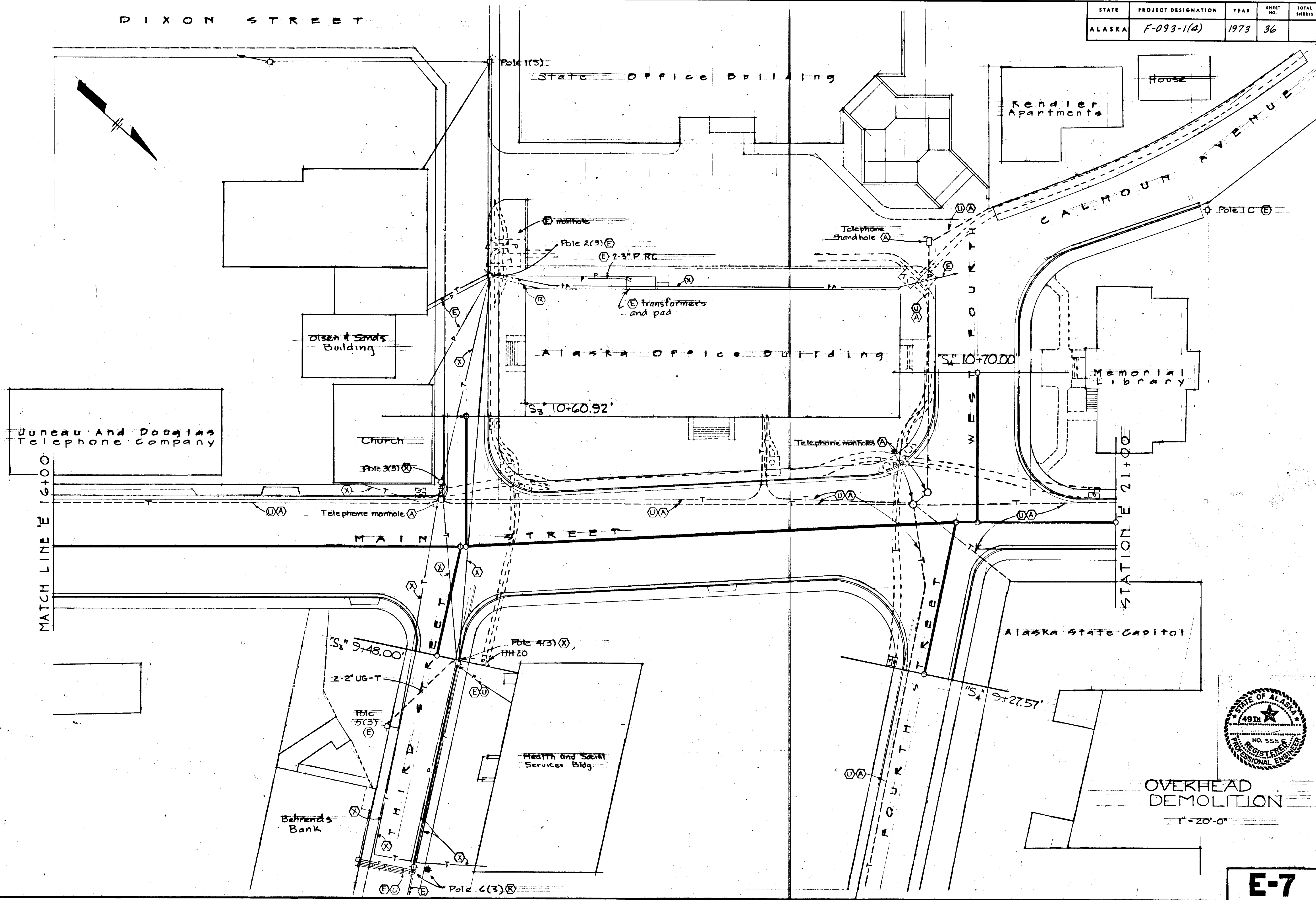
E-5

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-1(4)	1973	35	



E-6

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-1(4)	1973	36	

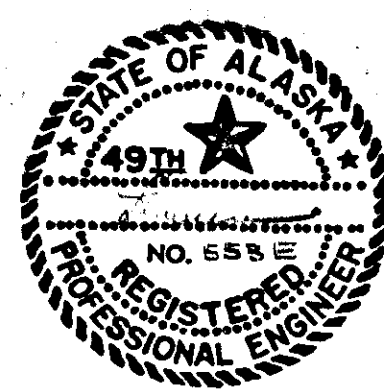
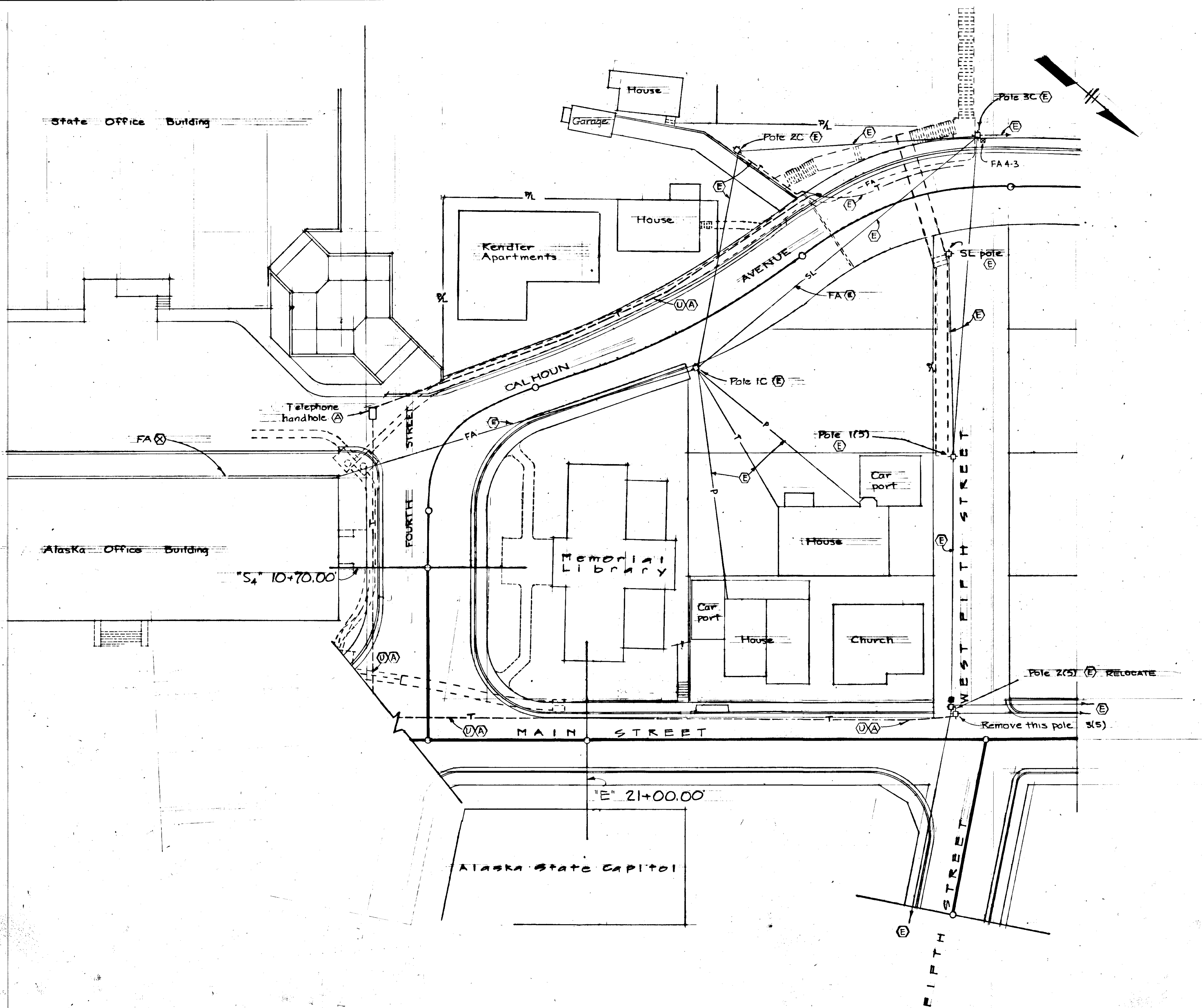


OVERHEAD
DEMOLITION

1" = 20'-0"

E-7

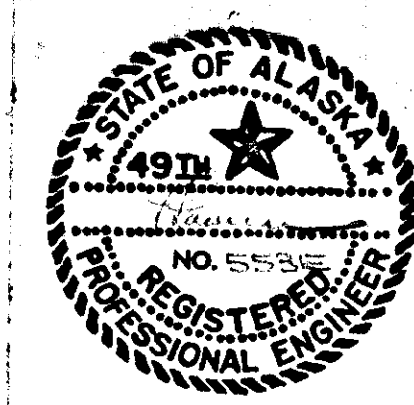
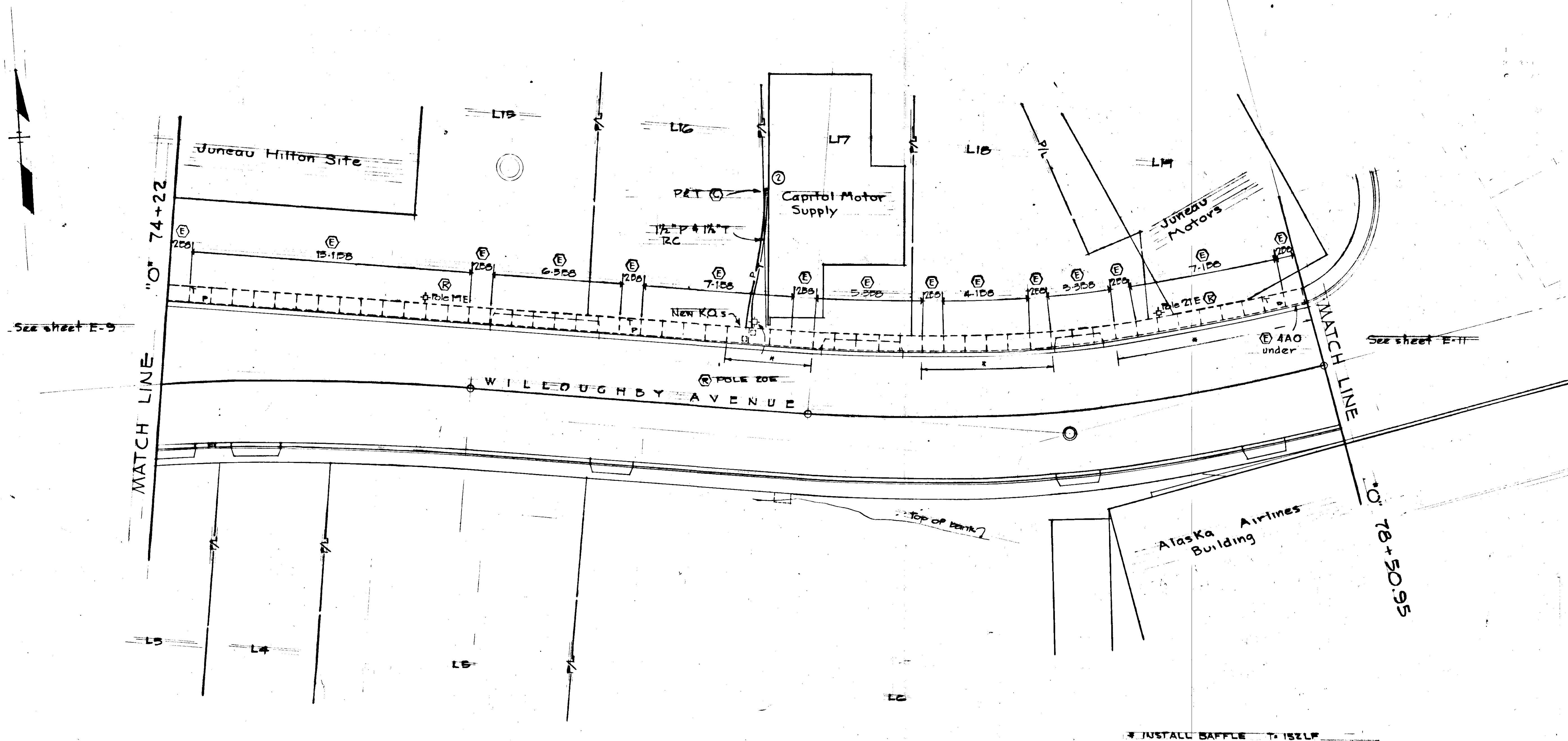
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-1(4)	1973	37	



OVERHEAD DEMOLITION
1" = 20'-0"

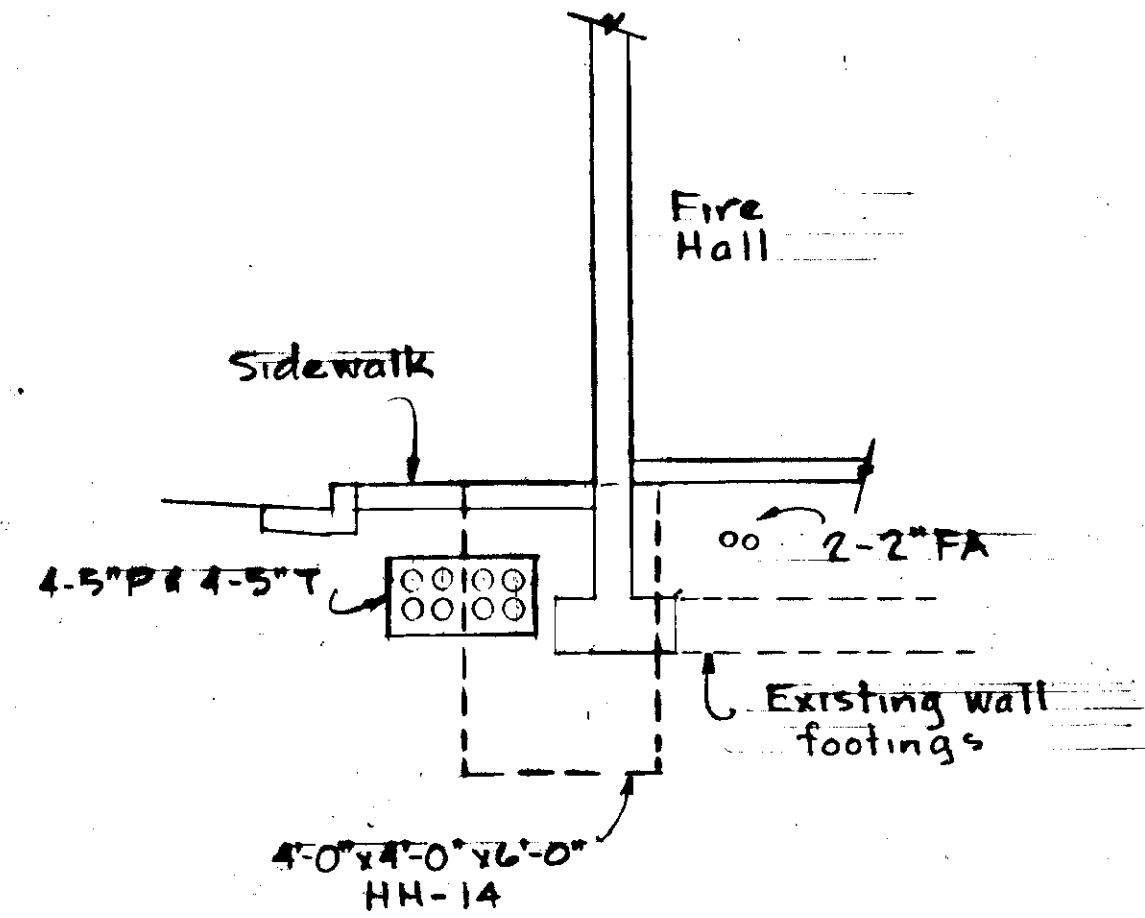
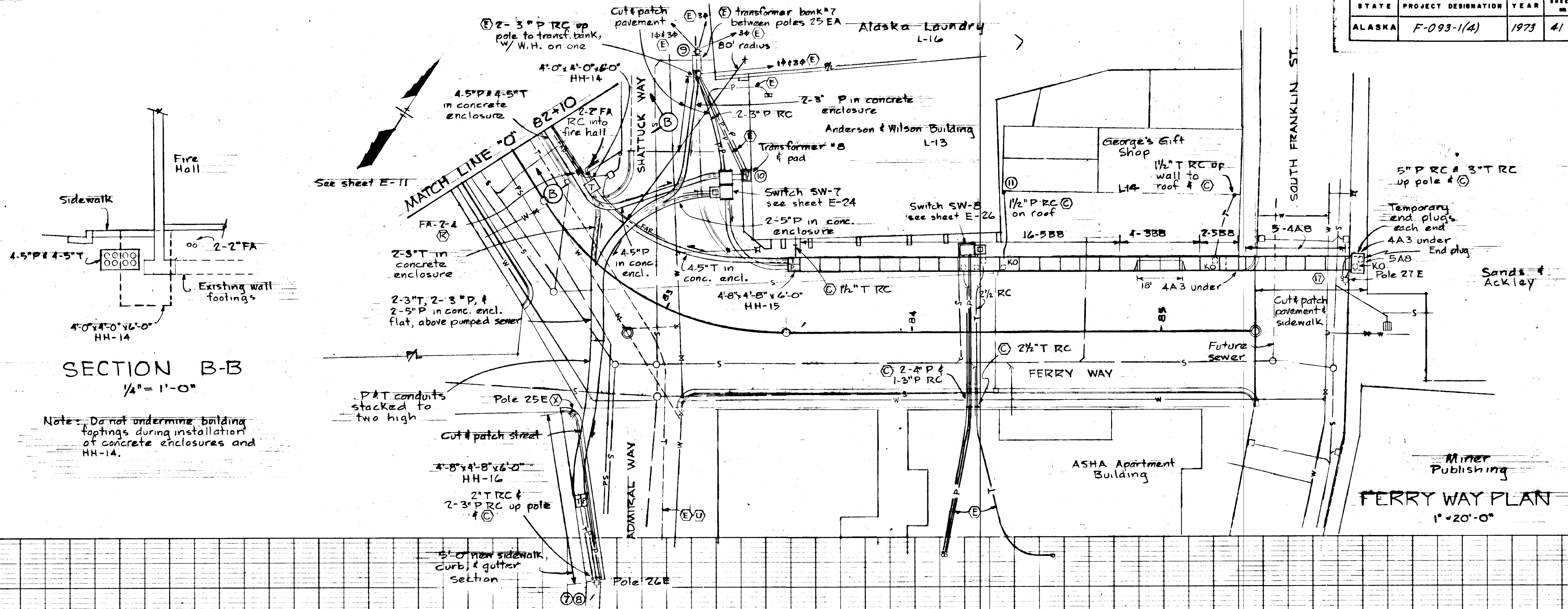
E-8

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-1(4)	1973	39	



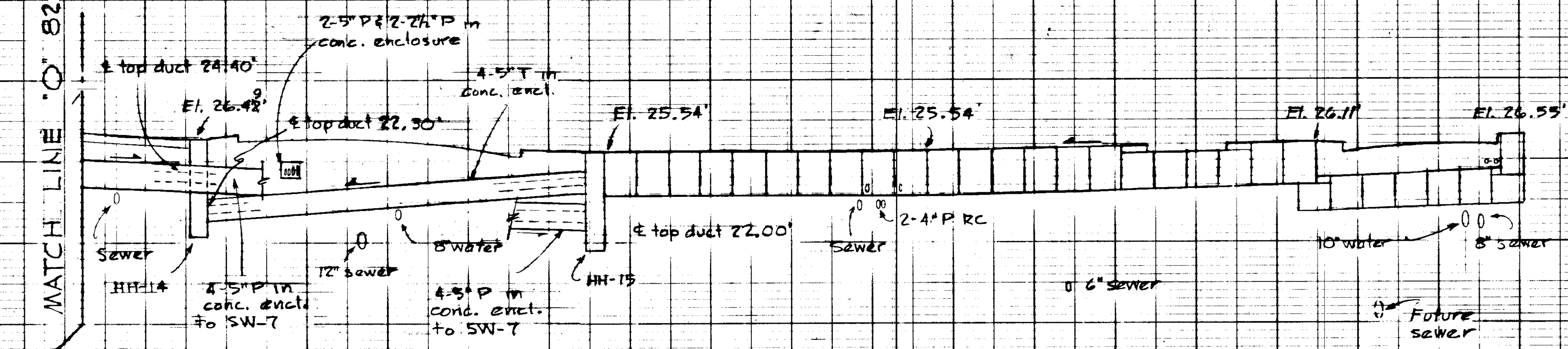
CABLE INSTALLATION
AND MODIFICATIONS
IN PHASE II WORK
1" = 20'-0"

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-1(4)	1973	41	

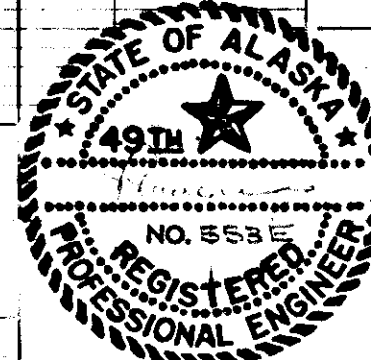


Note: Do not undermine building footings during installation of concrete enclosures and HH-14.

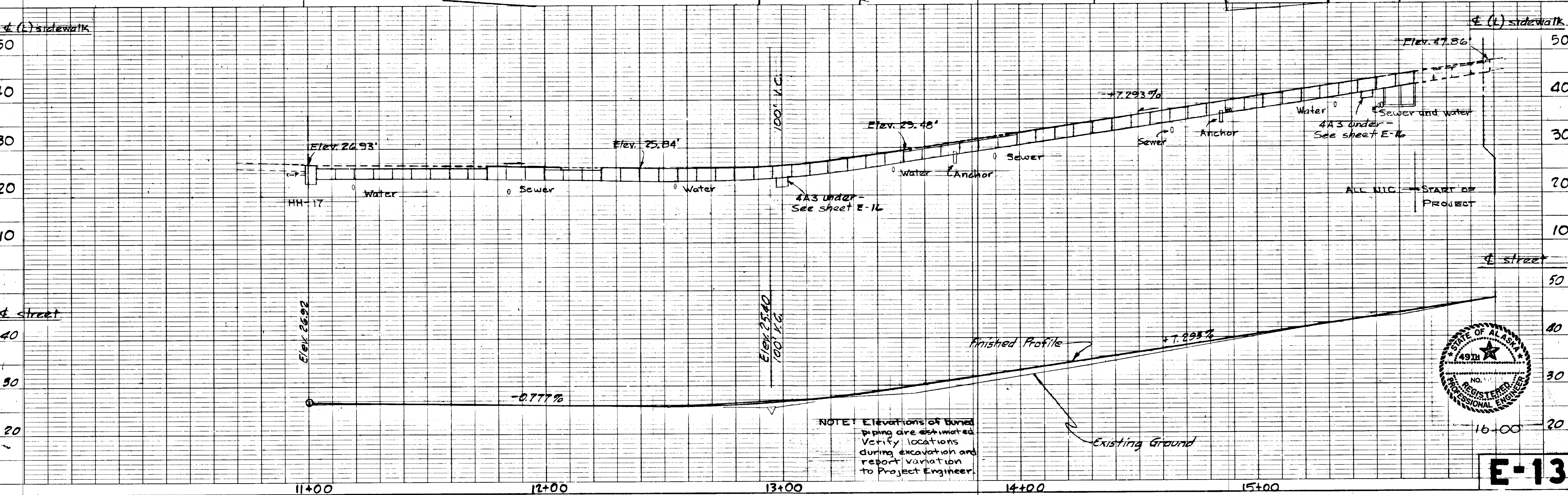
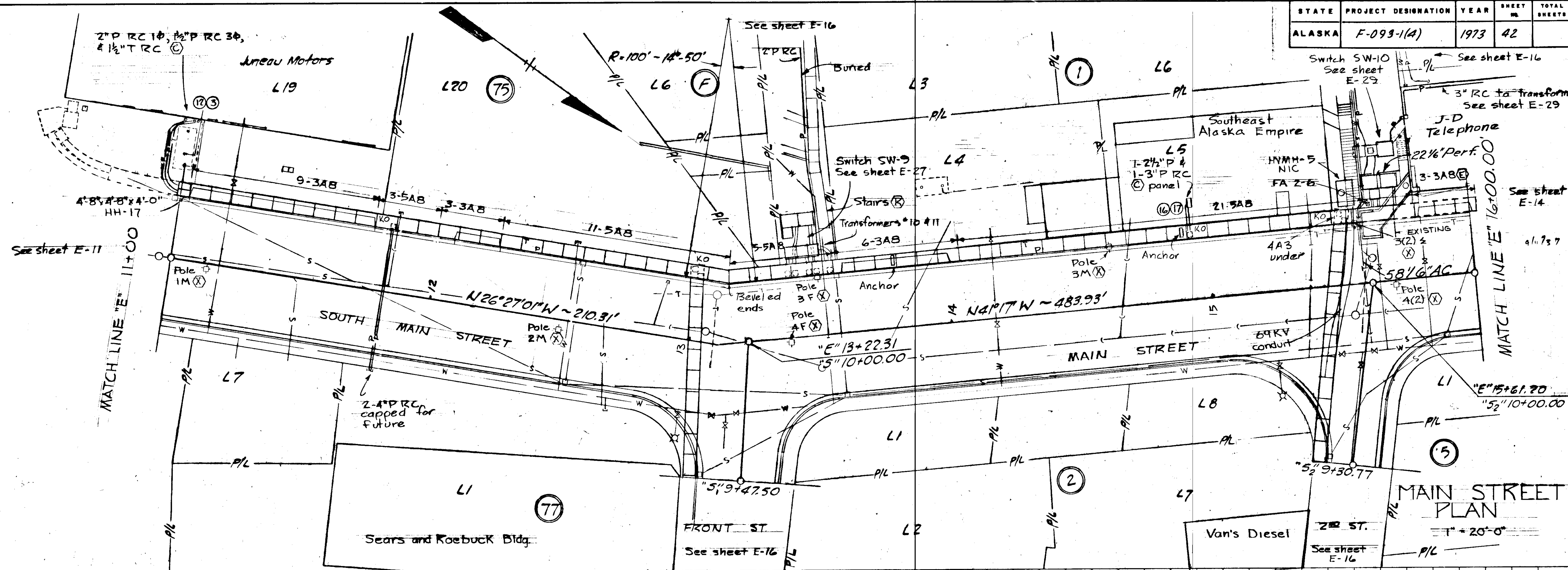
MATCH LINE "O" 82+10



NOTE: Elevations of buried piping are estimated. Verify locations during excavation and report variations to Project Engineer.

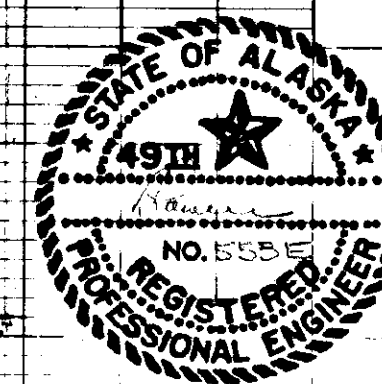
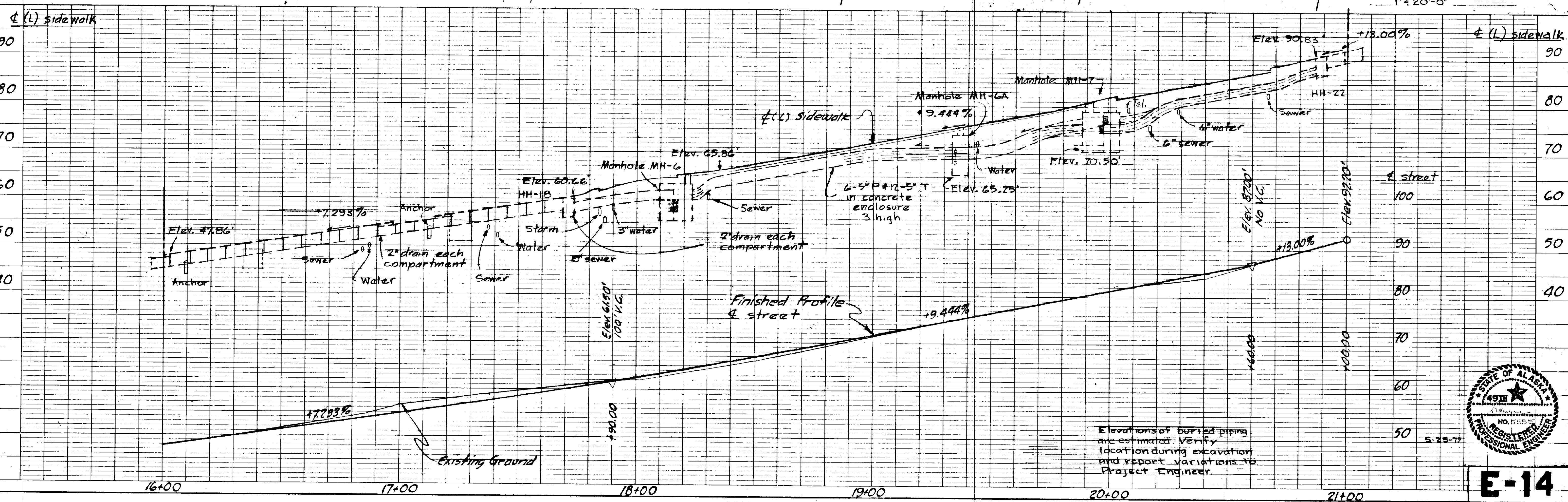
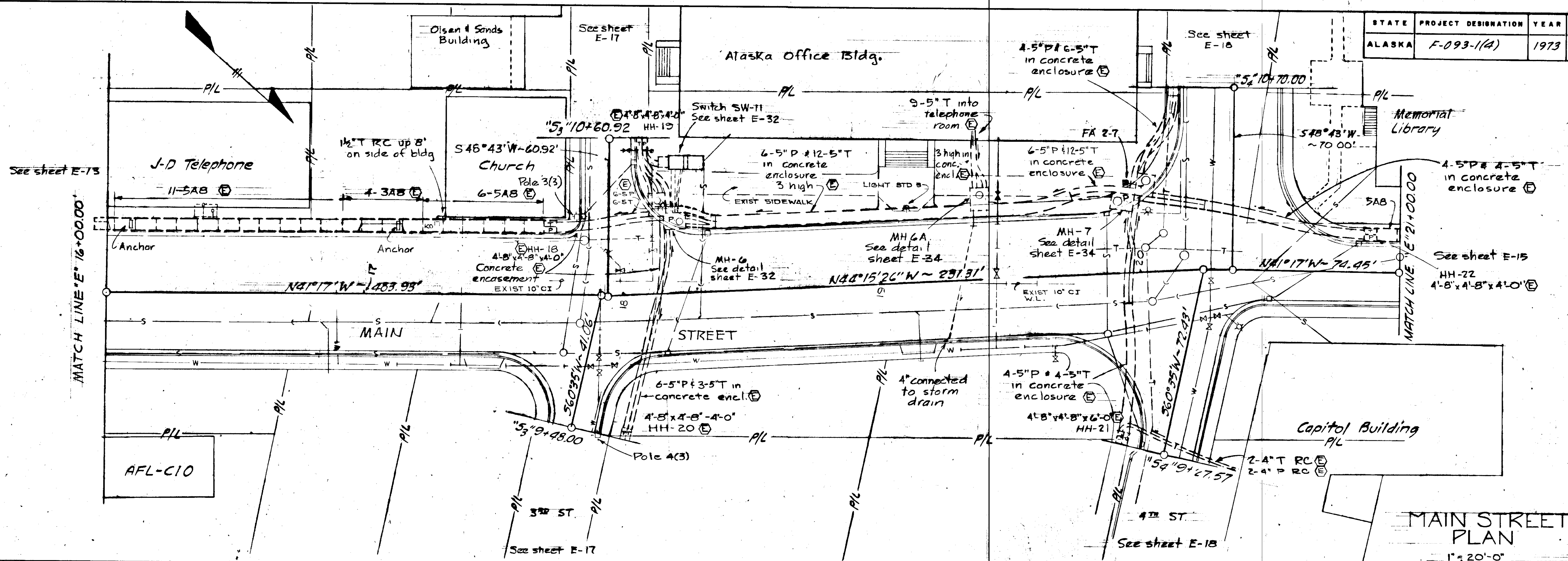


STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-099-1(4)	1973	42	



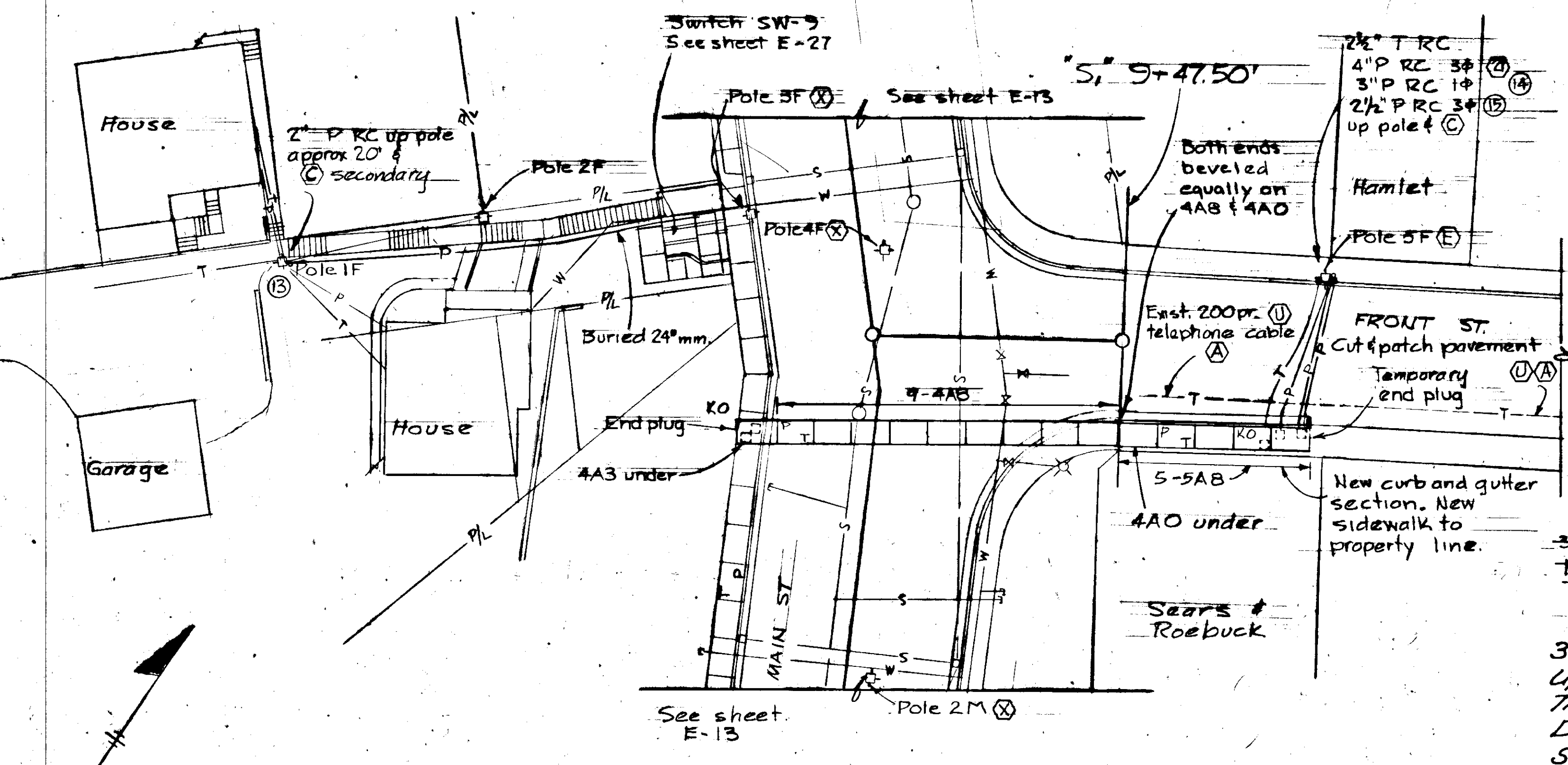
A circular seal for the State of Alaska. The outer ring contains the text "STATE OF ALASKA" at the top and "REGISTERED PROFESSIONAL ENGINEER" at the bottom, separated by a decorative border. In the center, there is a five-pointed star with the number "49TH" to its left. Below the star, the word "NO." is followed by a blank space for a number.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-1(4)	1973	43	

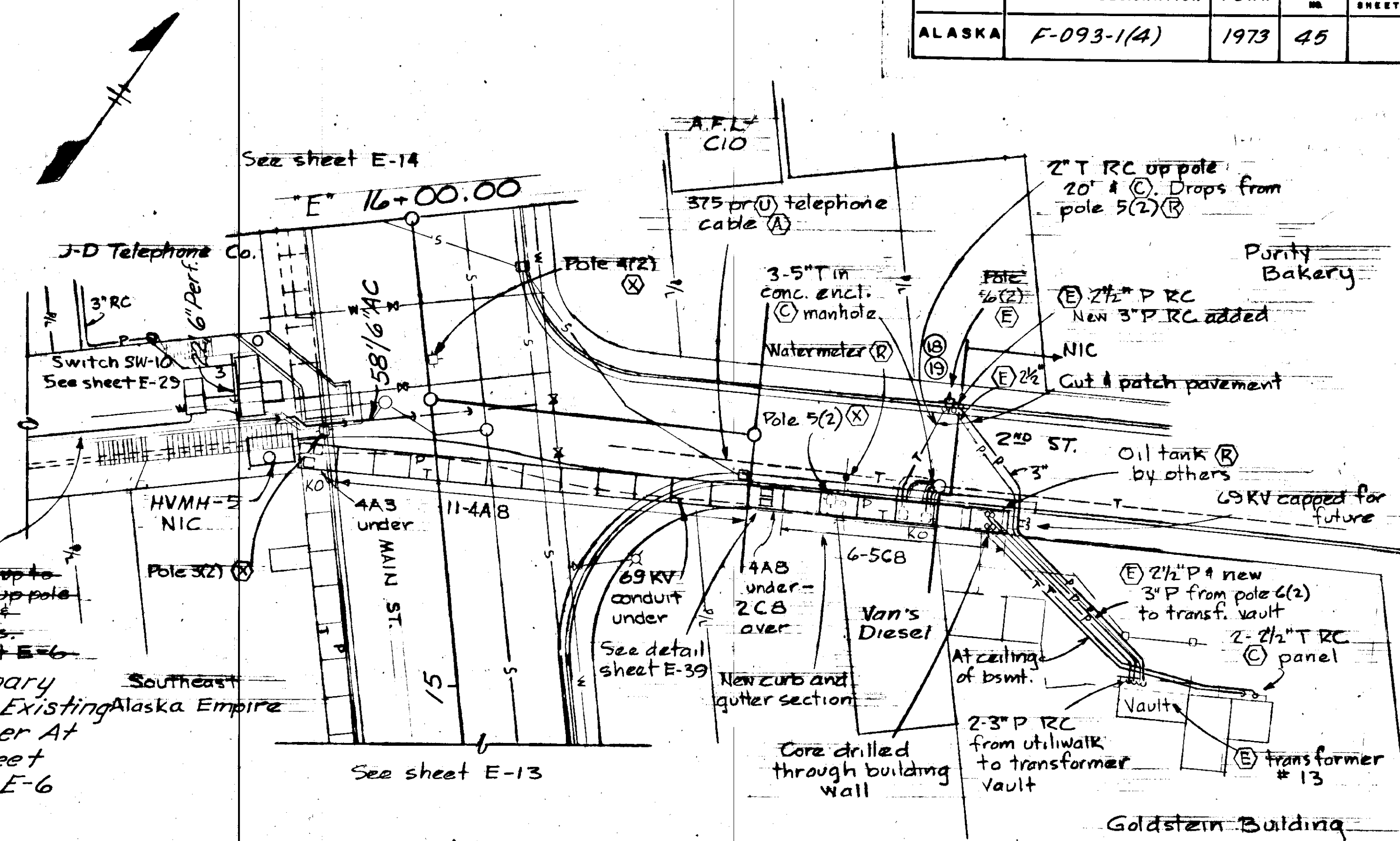


E-14

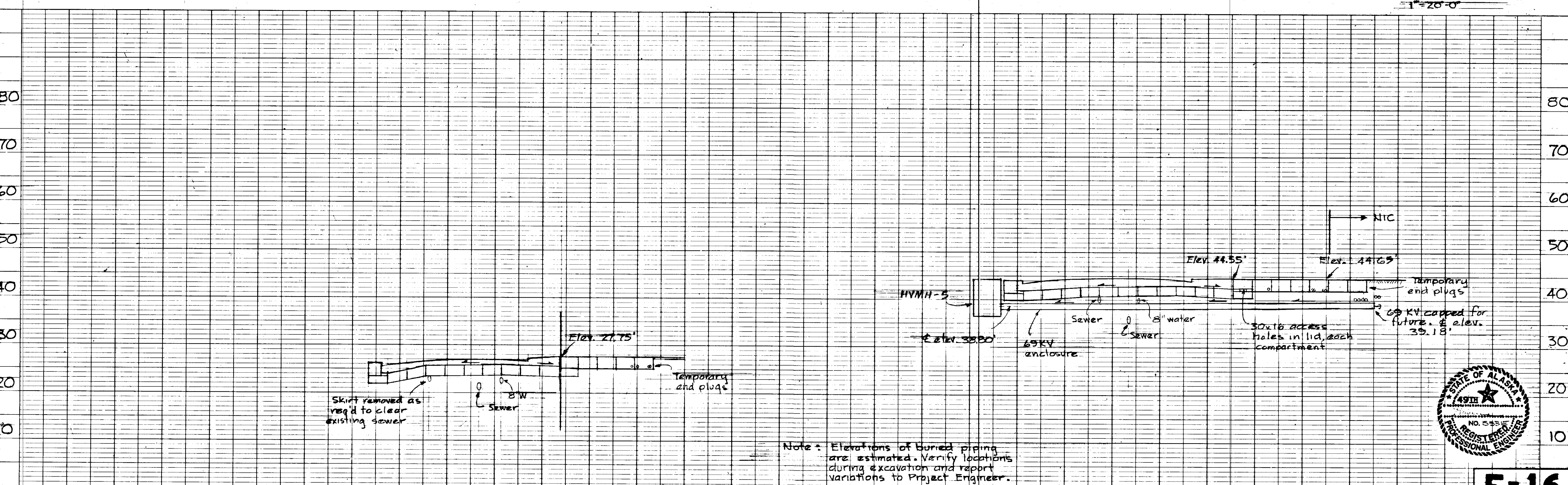
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-1/4	1973	45	



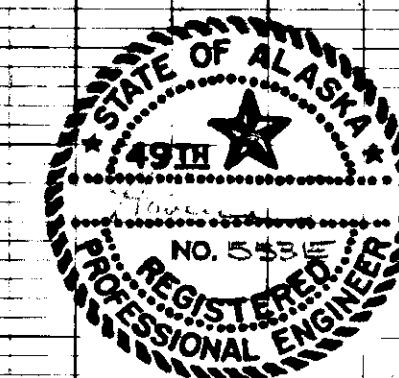
FRONT STREET INTERSECTION



SECOND STREET INTERSECTION

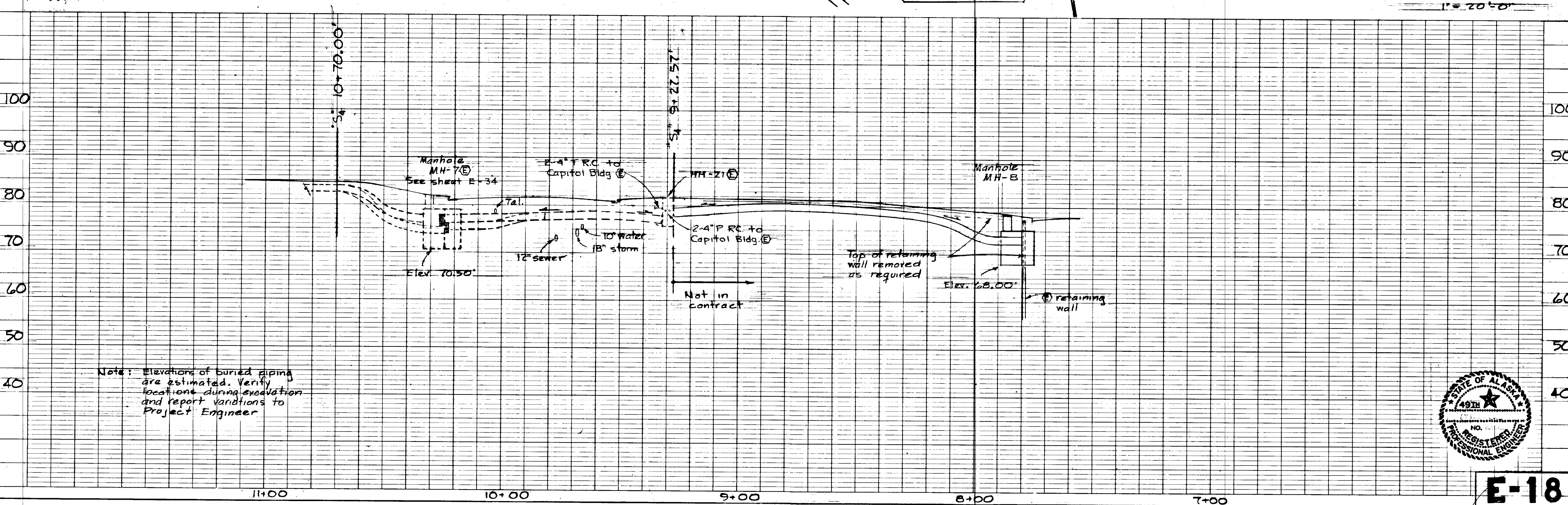
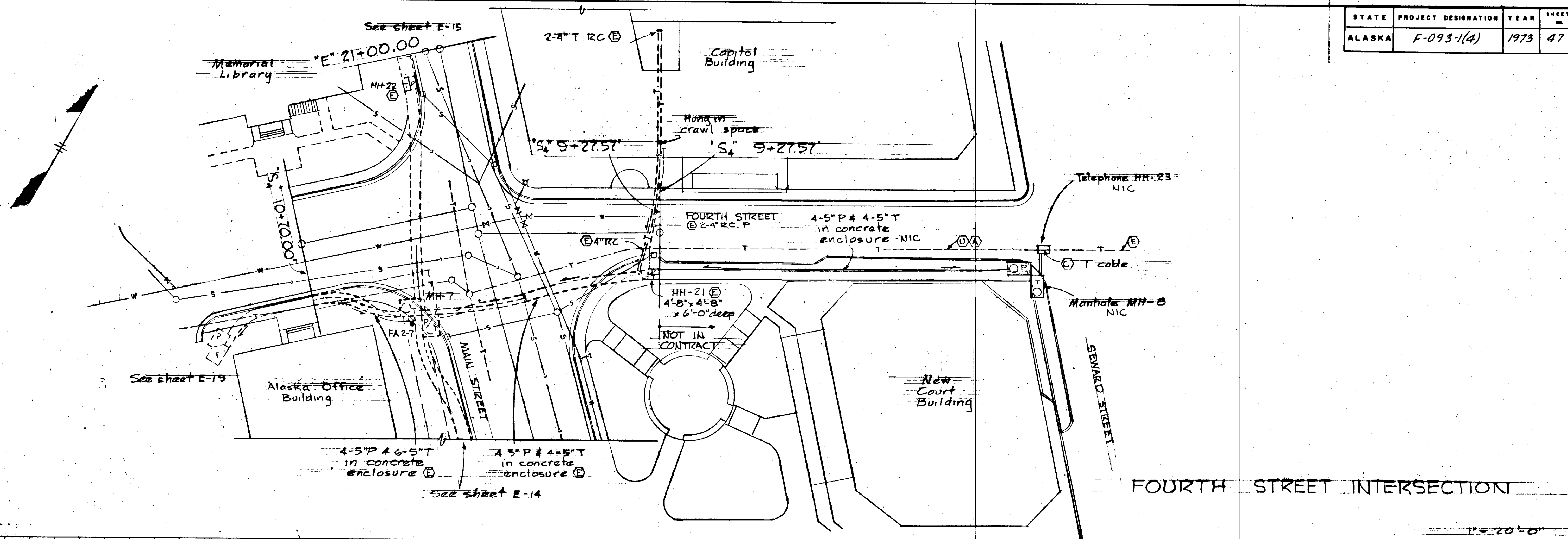


Note: Elevations of buried piping are estimated. Verify locations during excavation and report variations to Project Engineer.

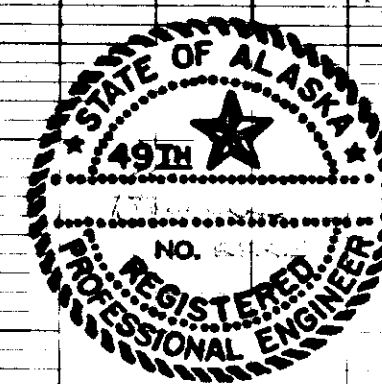


E-16

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-1(4)	1973	47	

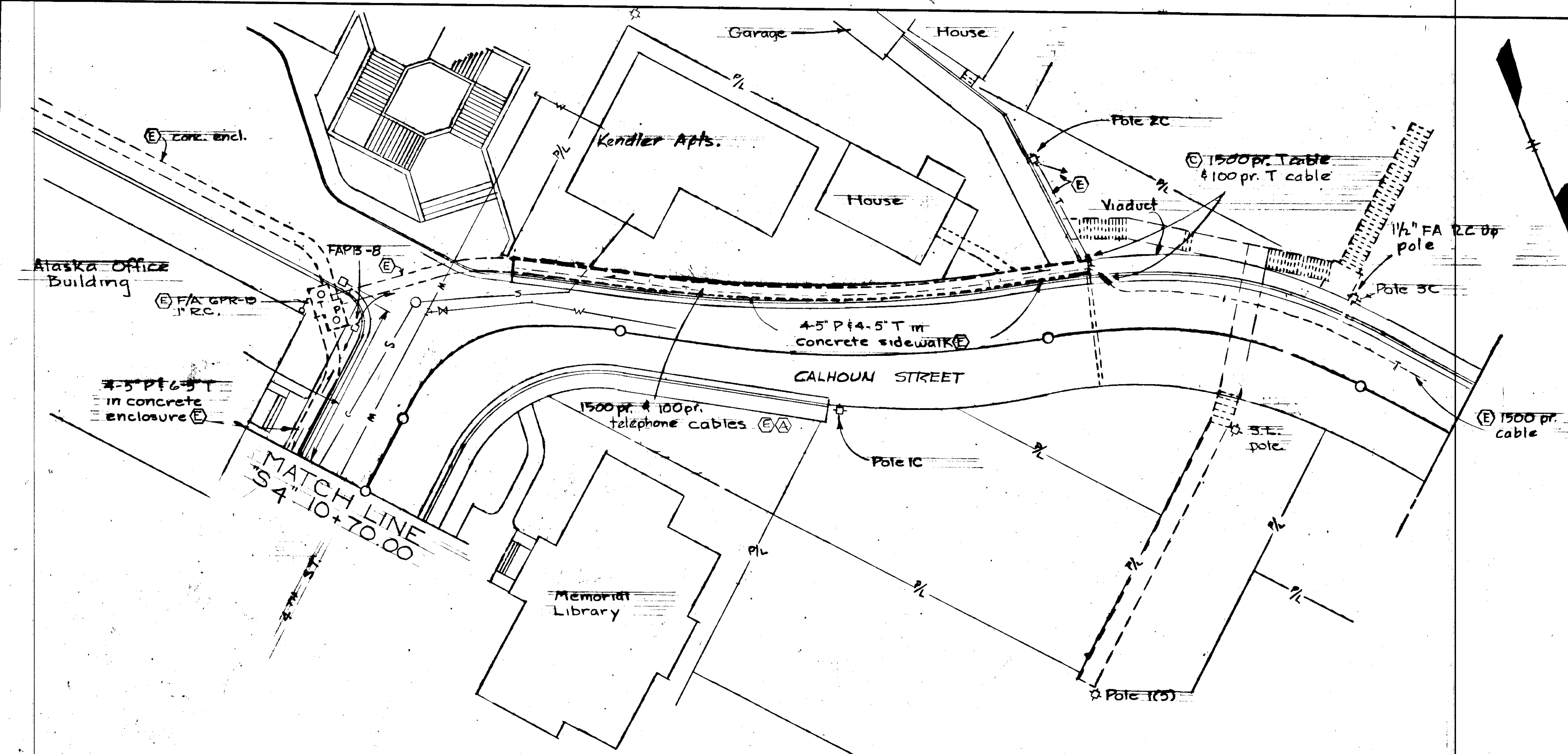


Note: Elevations of buried piping are estimated. Verify locations during excavation and report variations to Project Engineer.



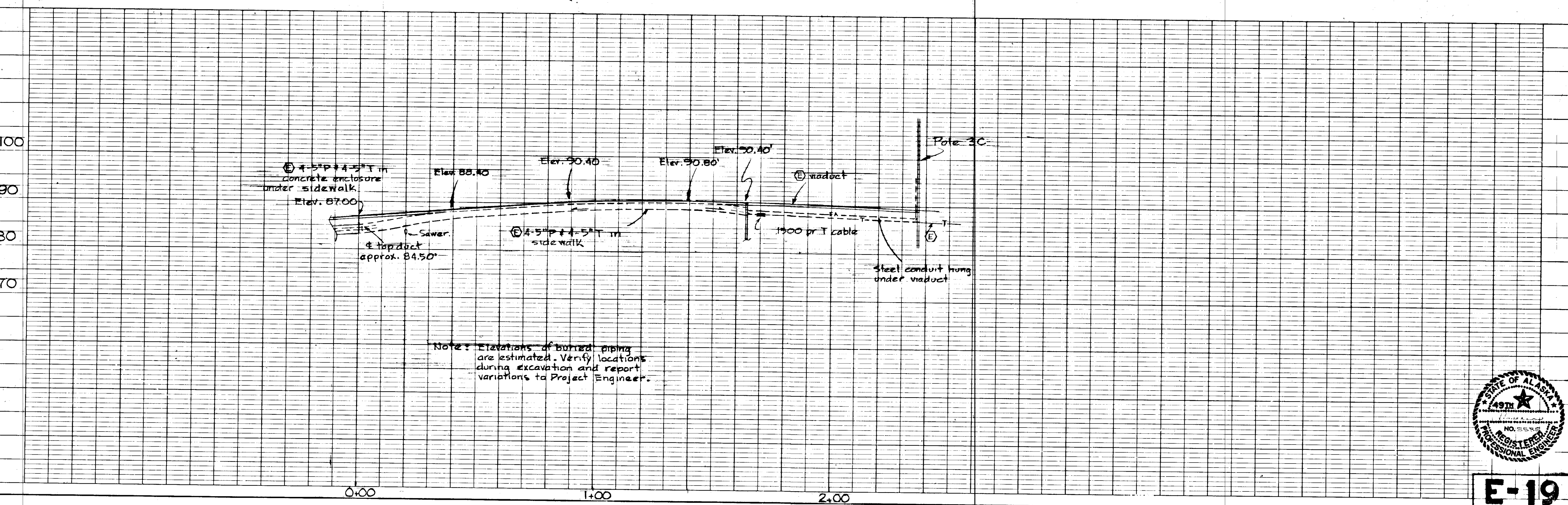
E-18

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-1(A)	1973	48	

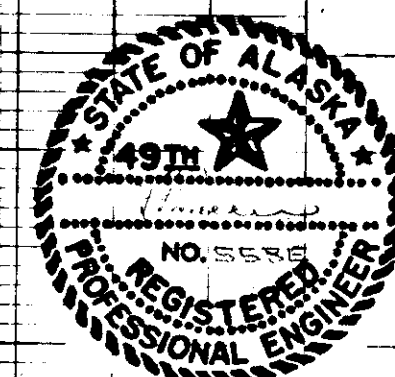


CALHOUN STREET PLAN

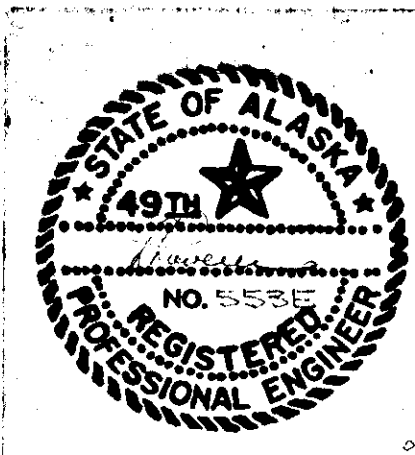
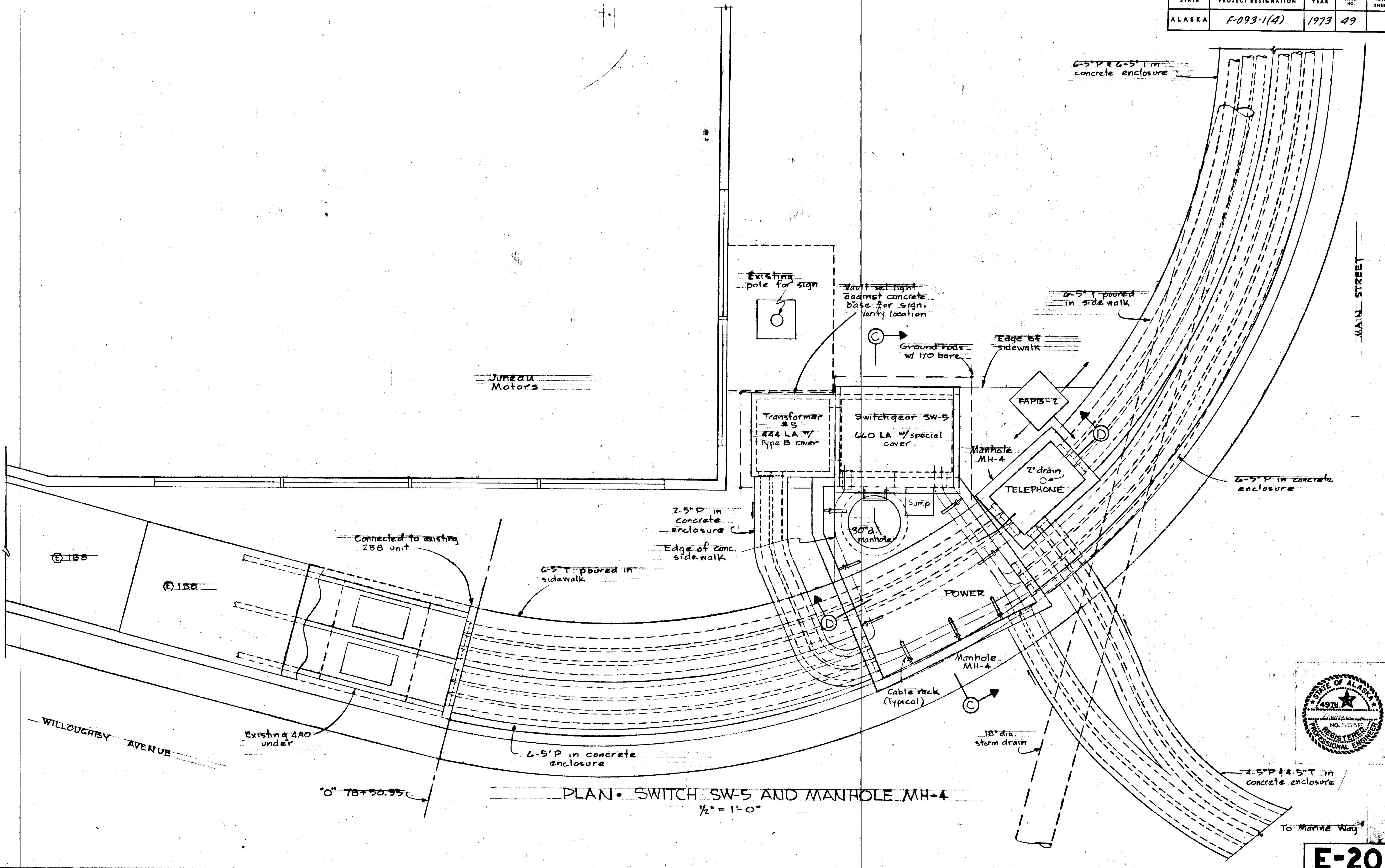
1" = 20'-0"



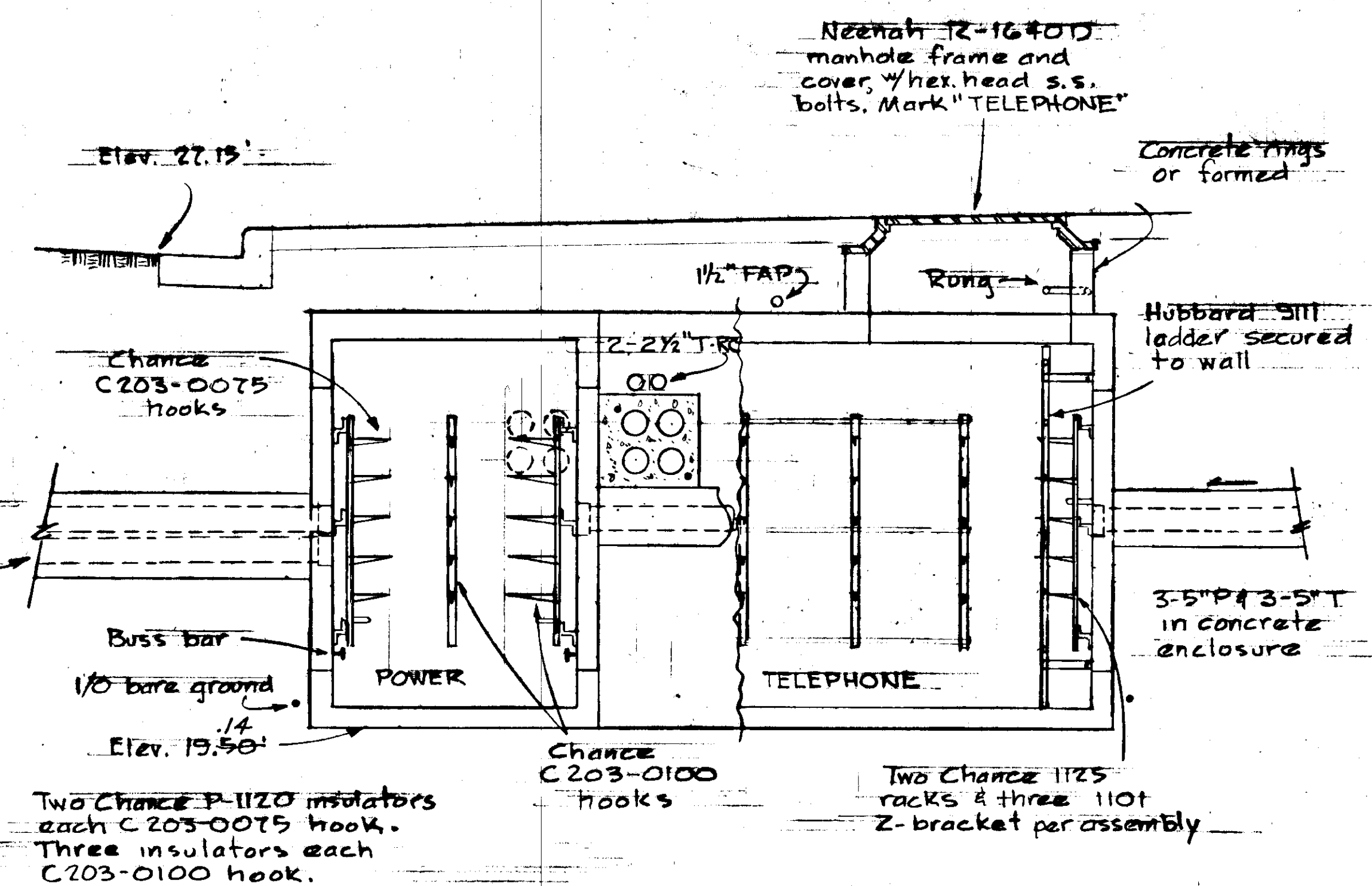
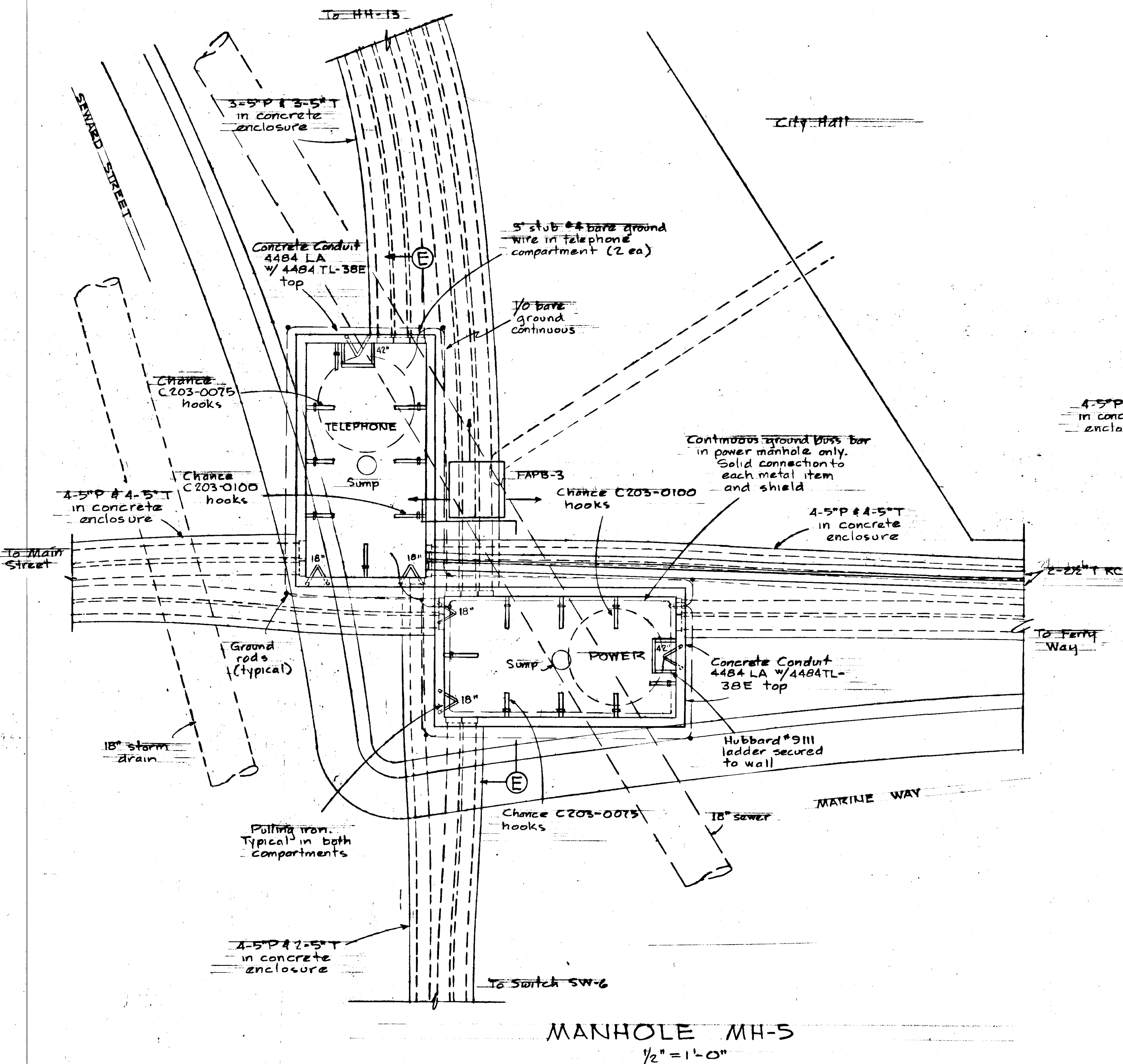
Note: Elevations of buried piping are estimated. Verify locations during excavation and report variations to Project Engineer.



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-1(4)	1973	49	

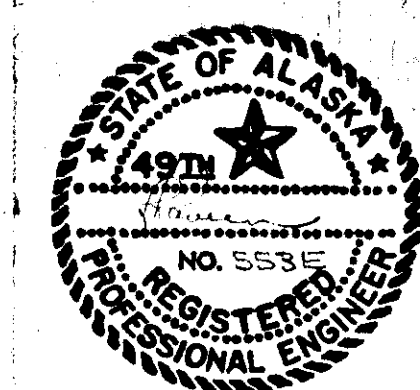


STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-1(4)	1973	51	



SECTION E-E

1/2" = 1'-0"



E-22


$$1/2'' = 1' - 0''$$

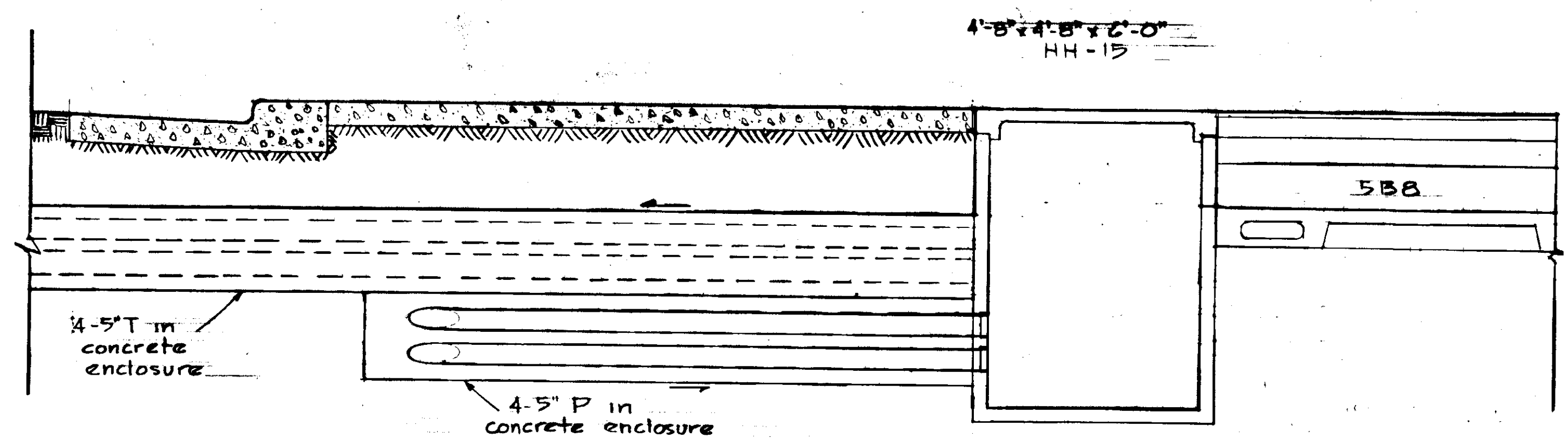
See Sheet E-11


$$\frac{1}{2}'' = 1'-0''$$

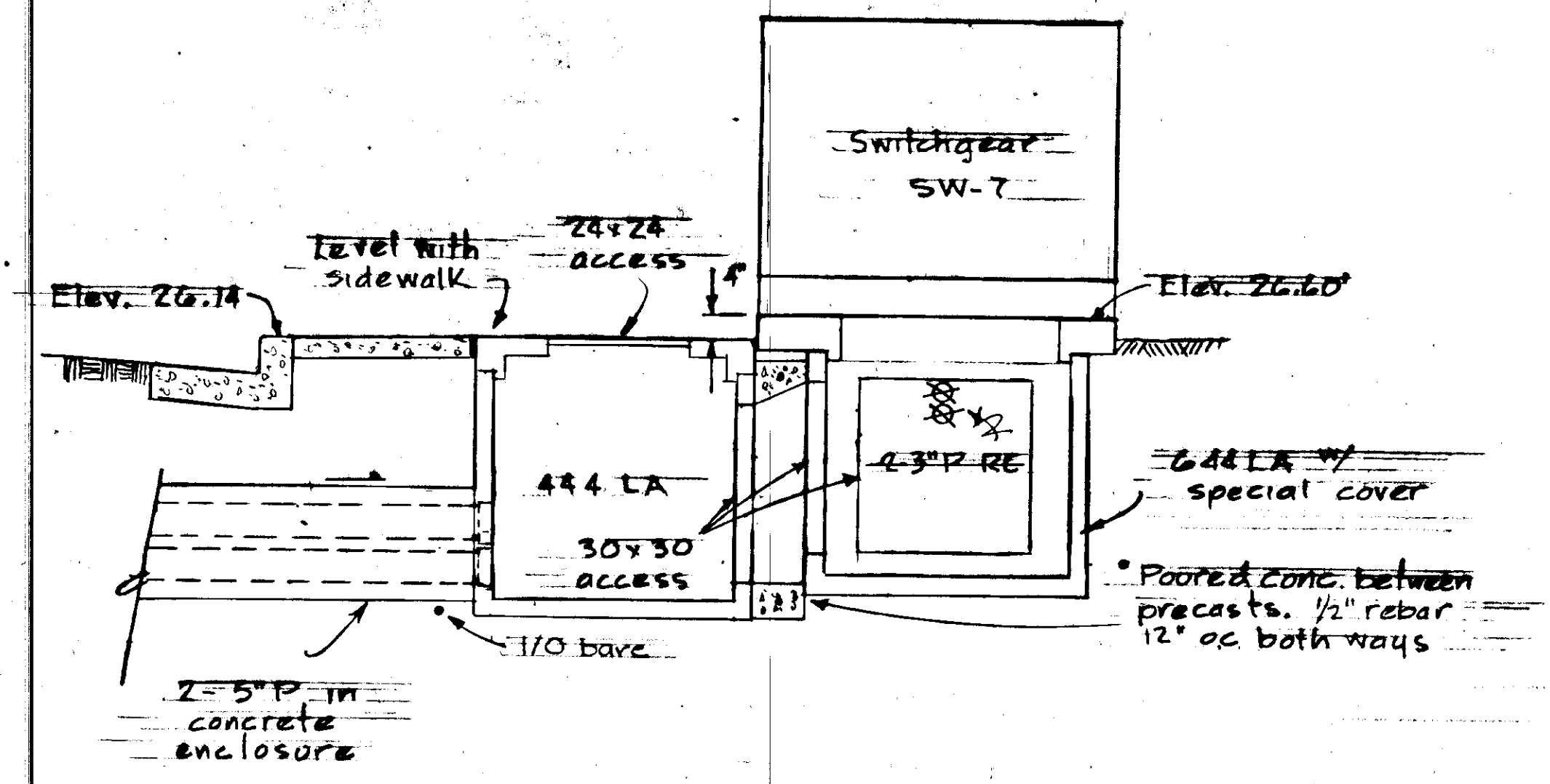
- * Concrete Conduit Company
- △ All covers with top surface at 2% slope
- Special cover. See sheet E-40



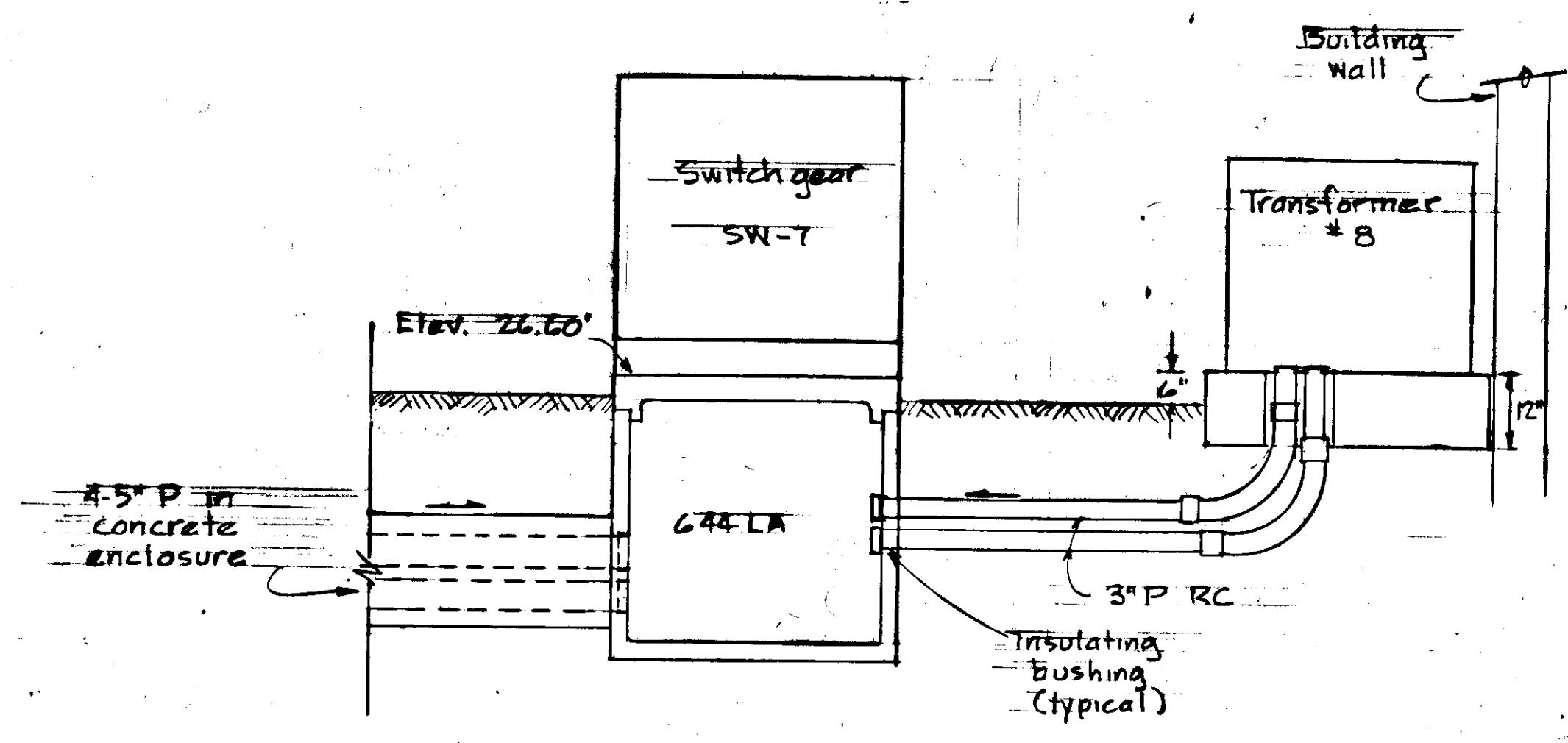
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOT SHEETS
ALASKA	F-093-1(4)	1973	54	



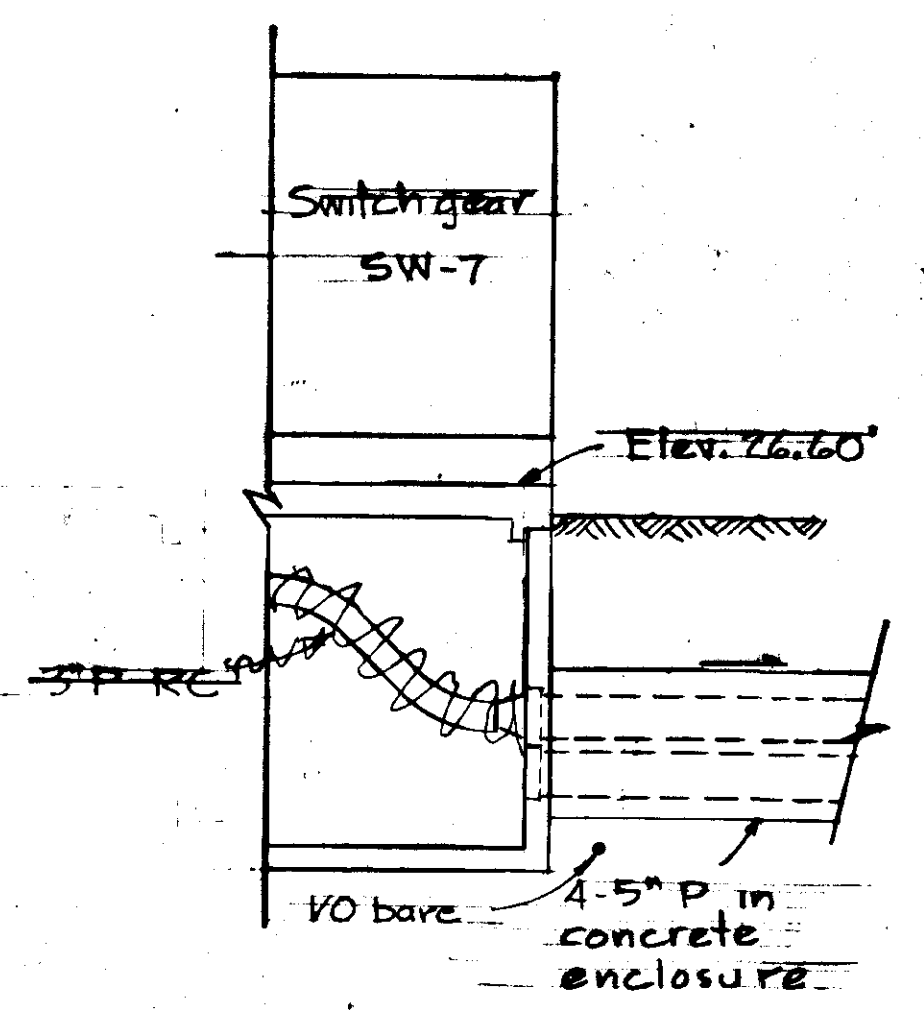
SECTION G-G
1/2" = 1'-0"



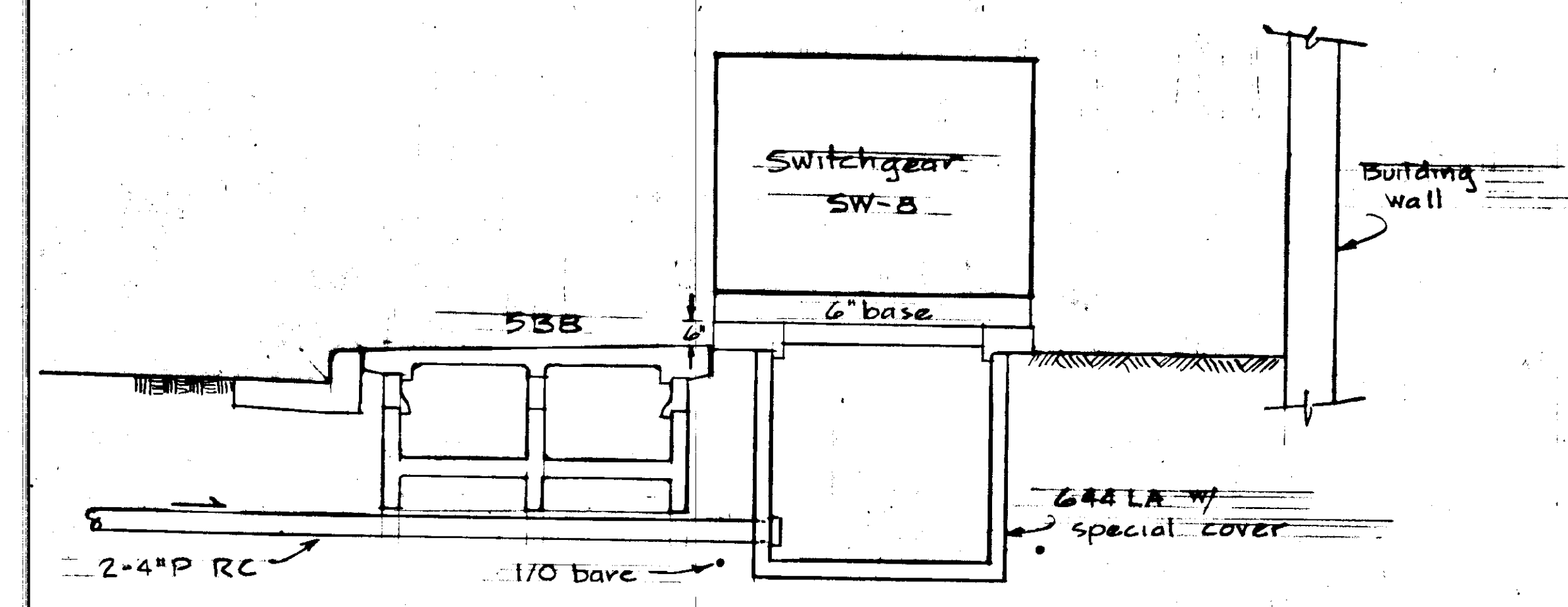
SECTION H-H
1/2" = 1'-0"



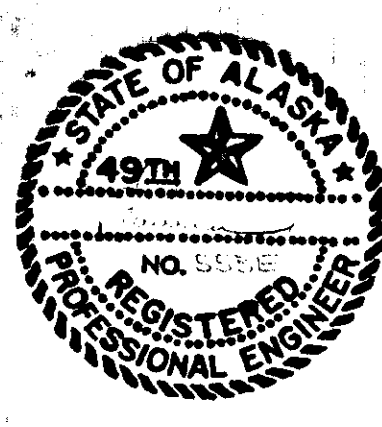
SECTION I-I
1/2" = 1'-0"

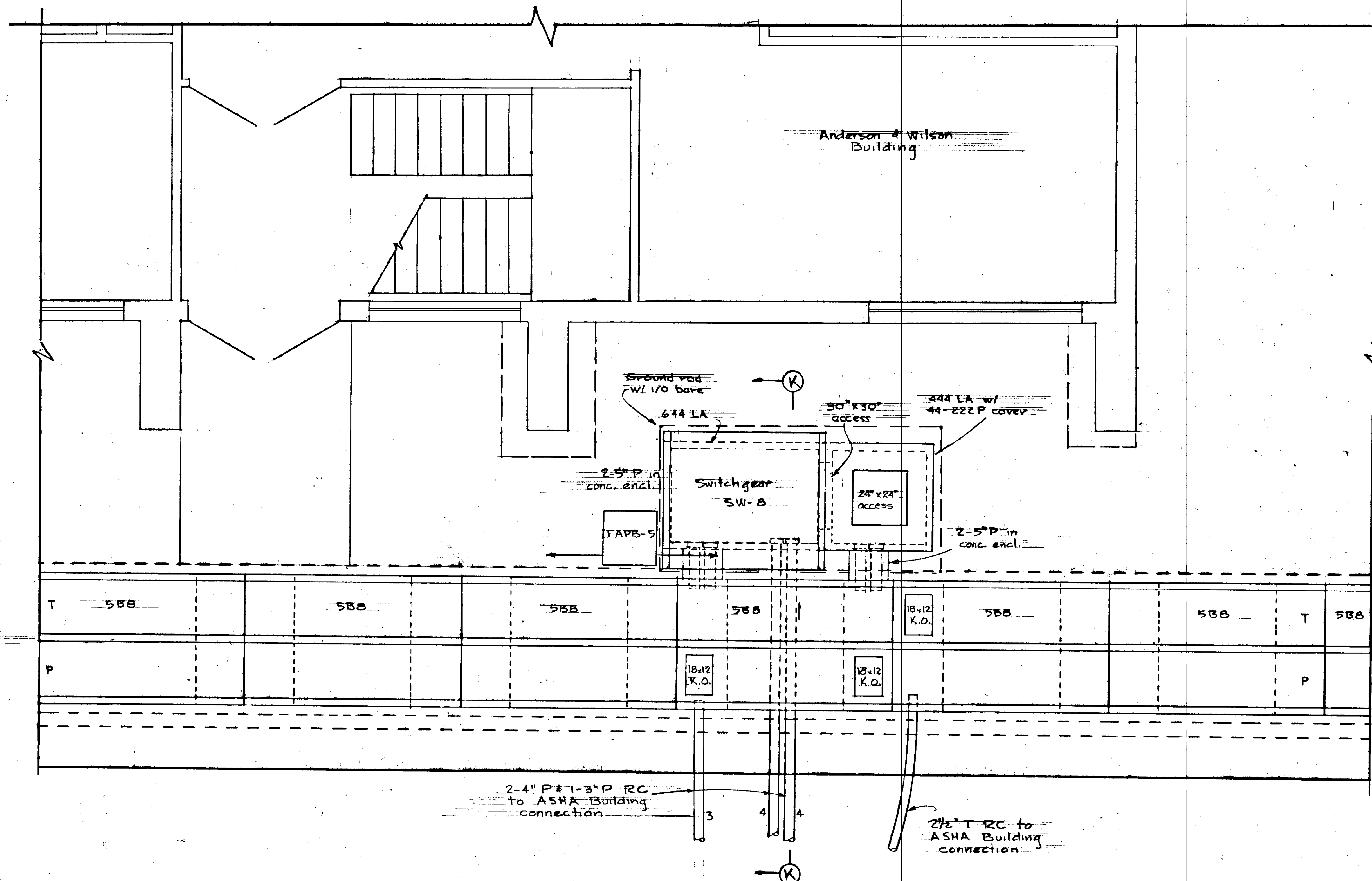


SECTION J-J
1/2" = 1'-0"

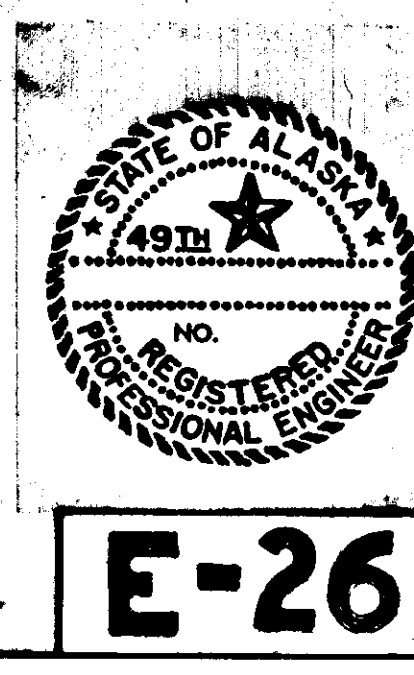


SECTION K-K
1/2" = 1'-0"

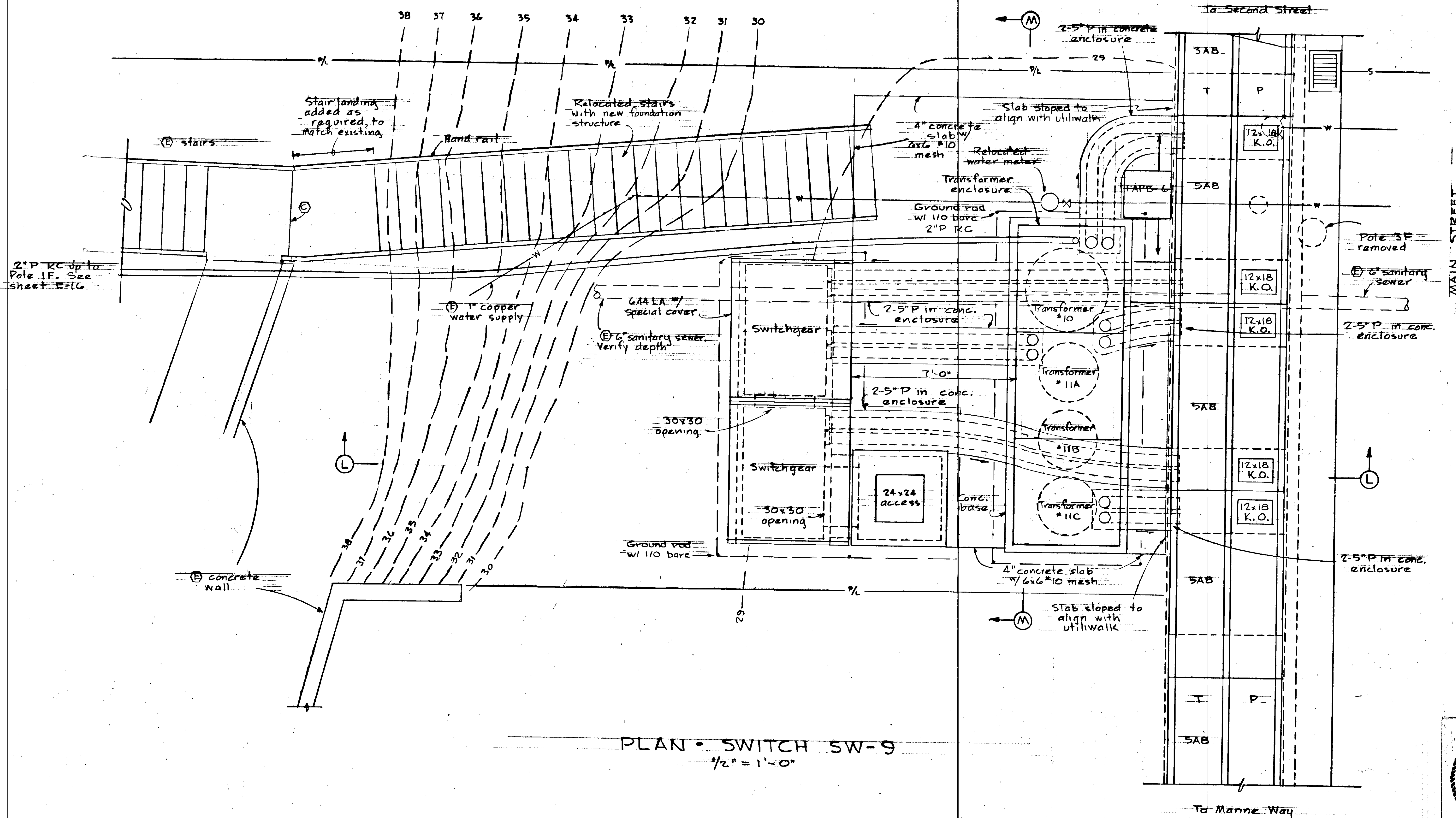




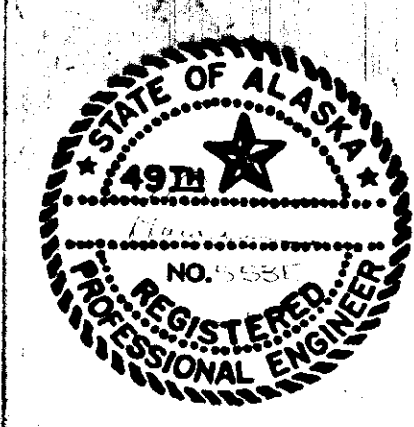
PLAN • SWITCH SW-8
1/2" = 1'-0"

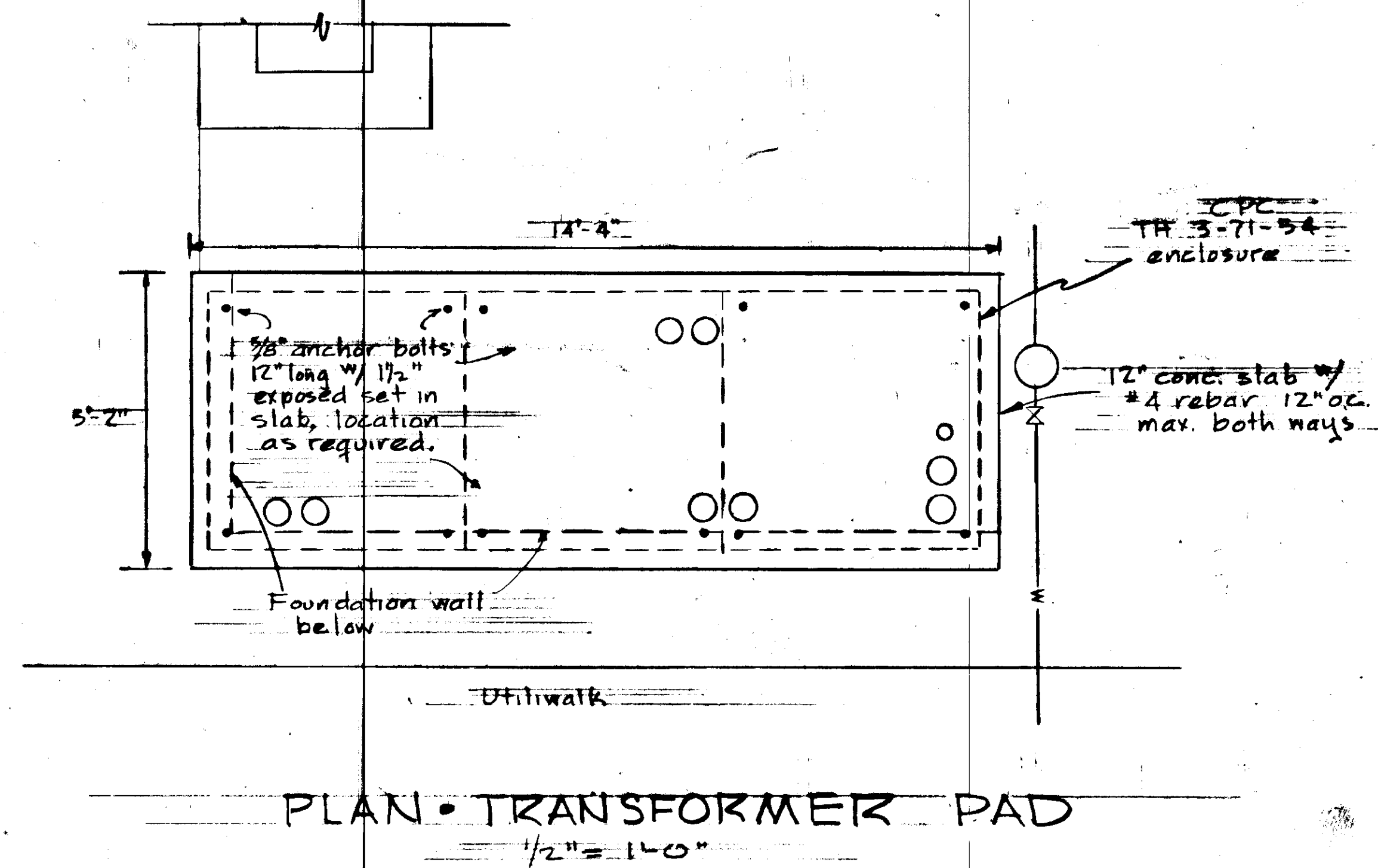
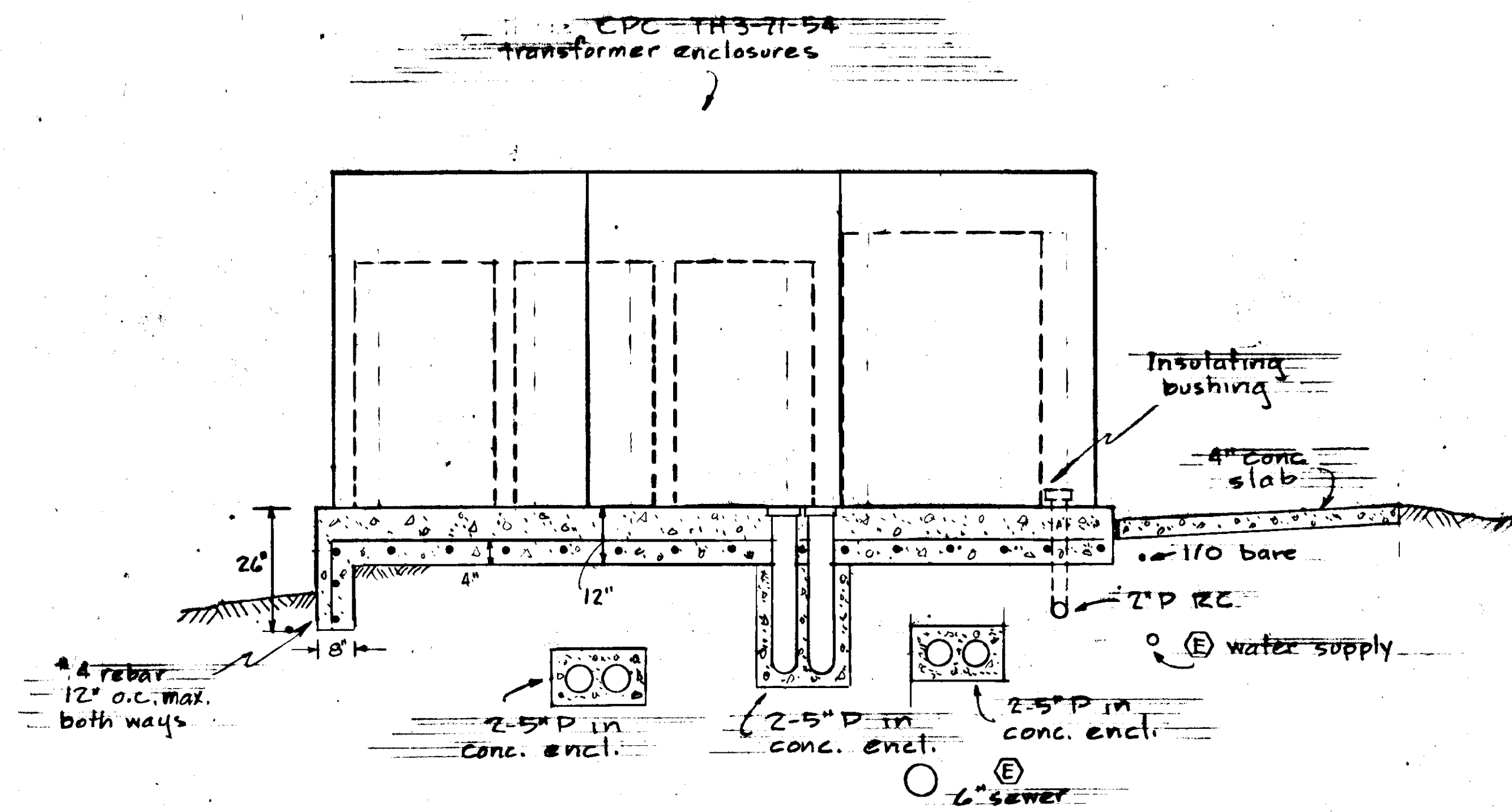
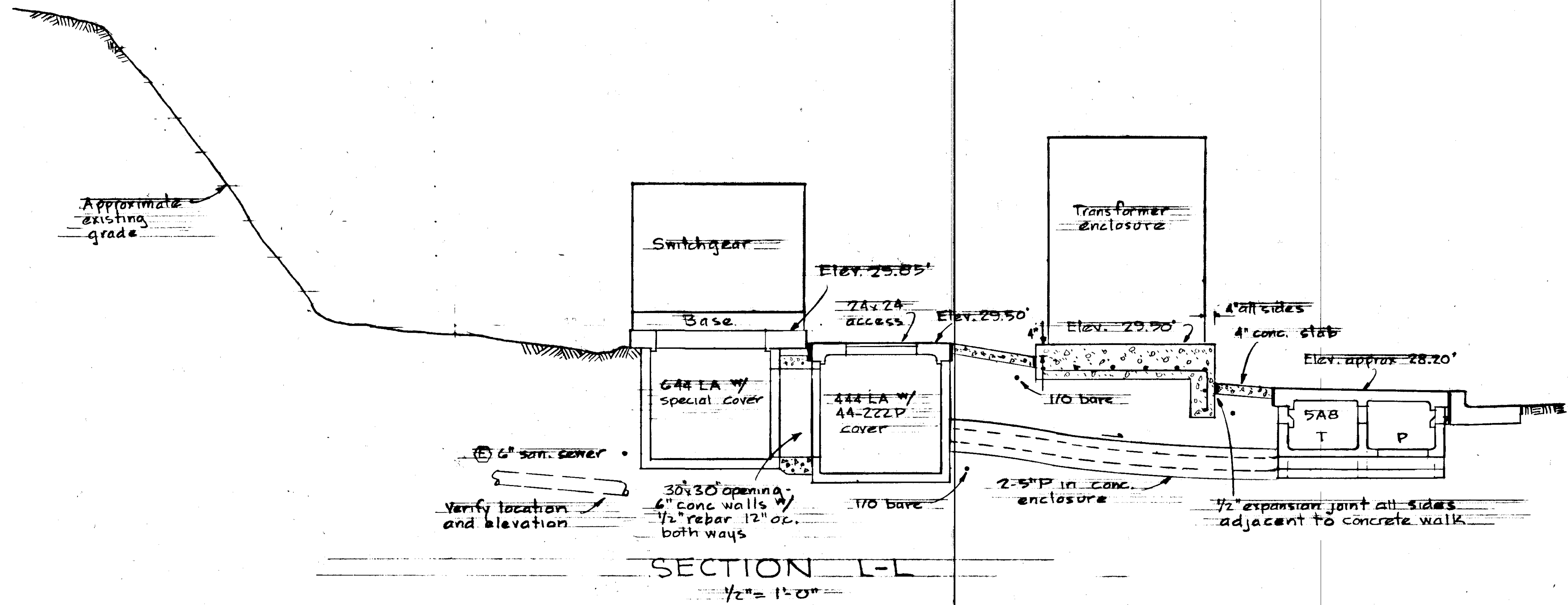


STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOT SHE
ALASKA	F-093-1(4)	1973	56	

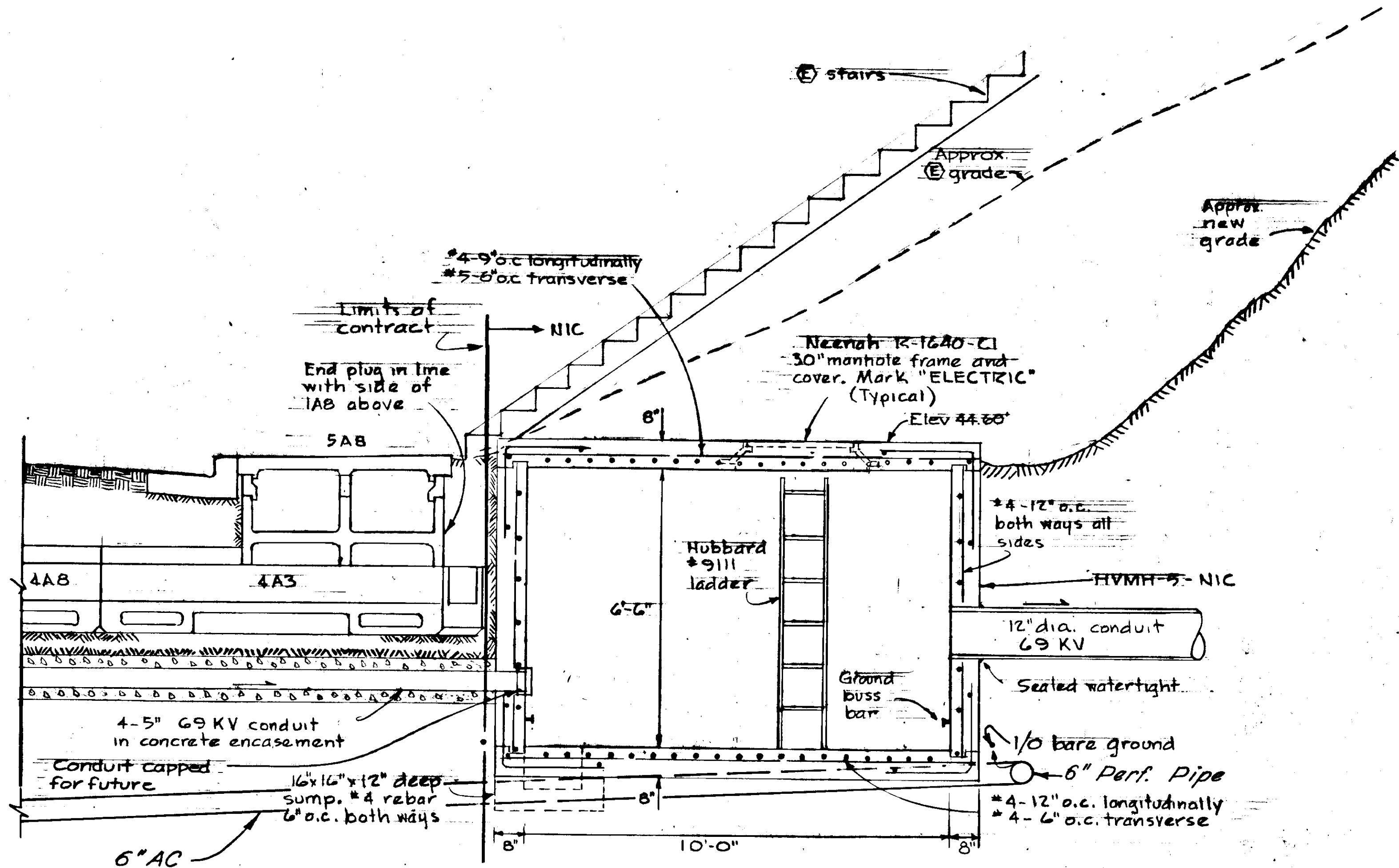


PLAN • SWITCH SW-9
1/2" = 1'-0"

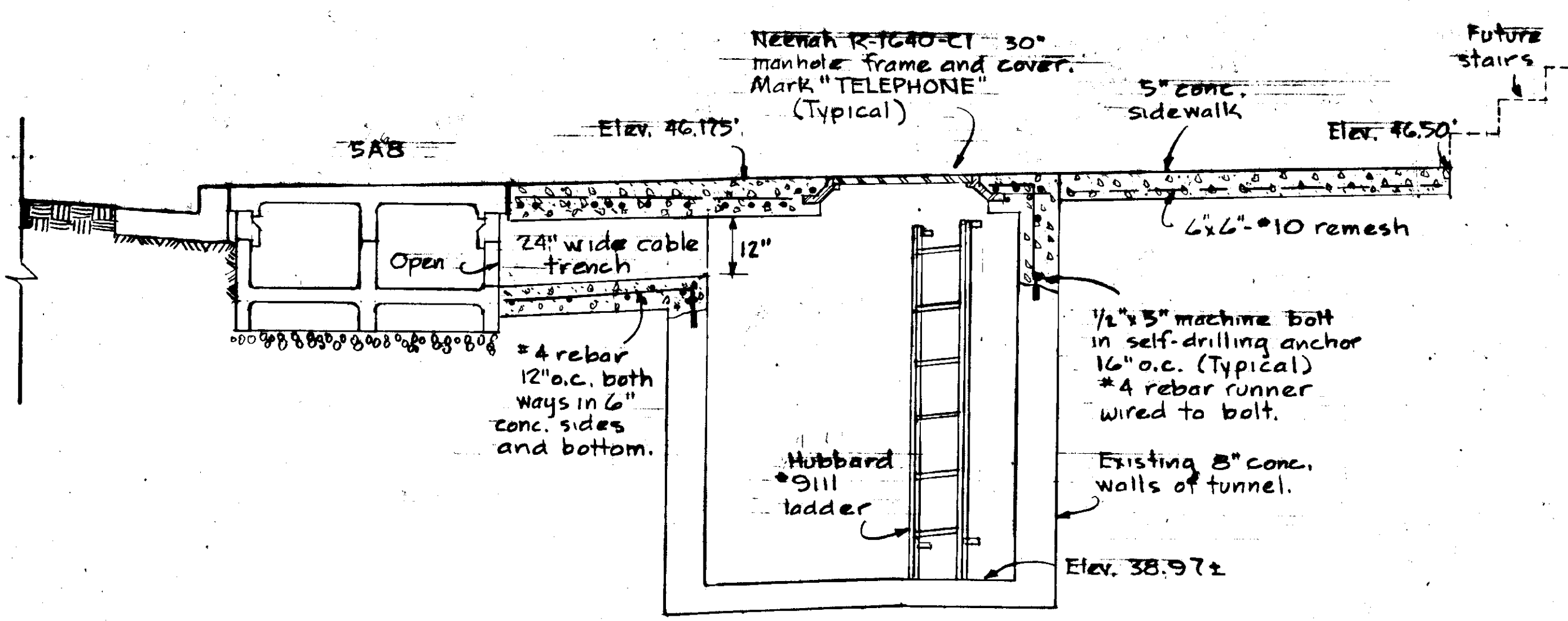




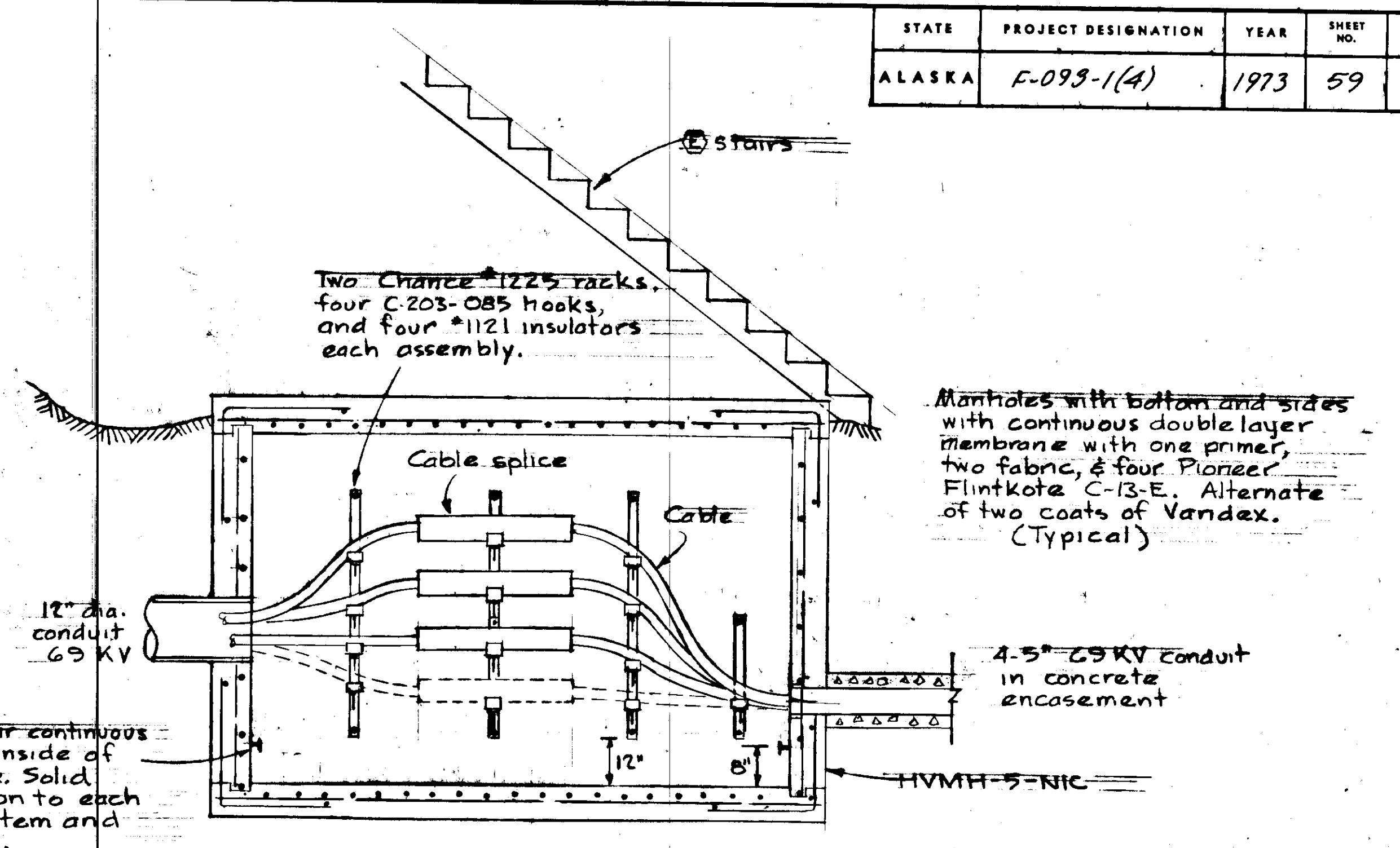
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-099-1(4)	1973	59	



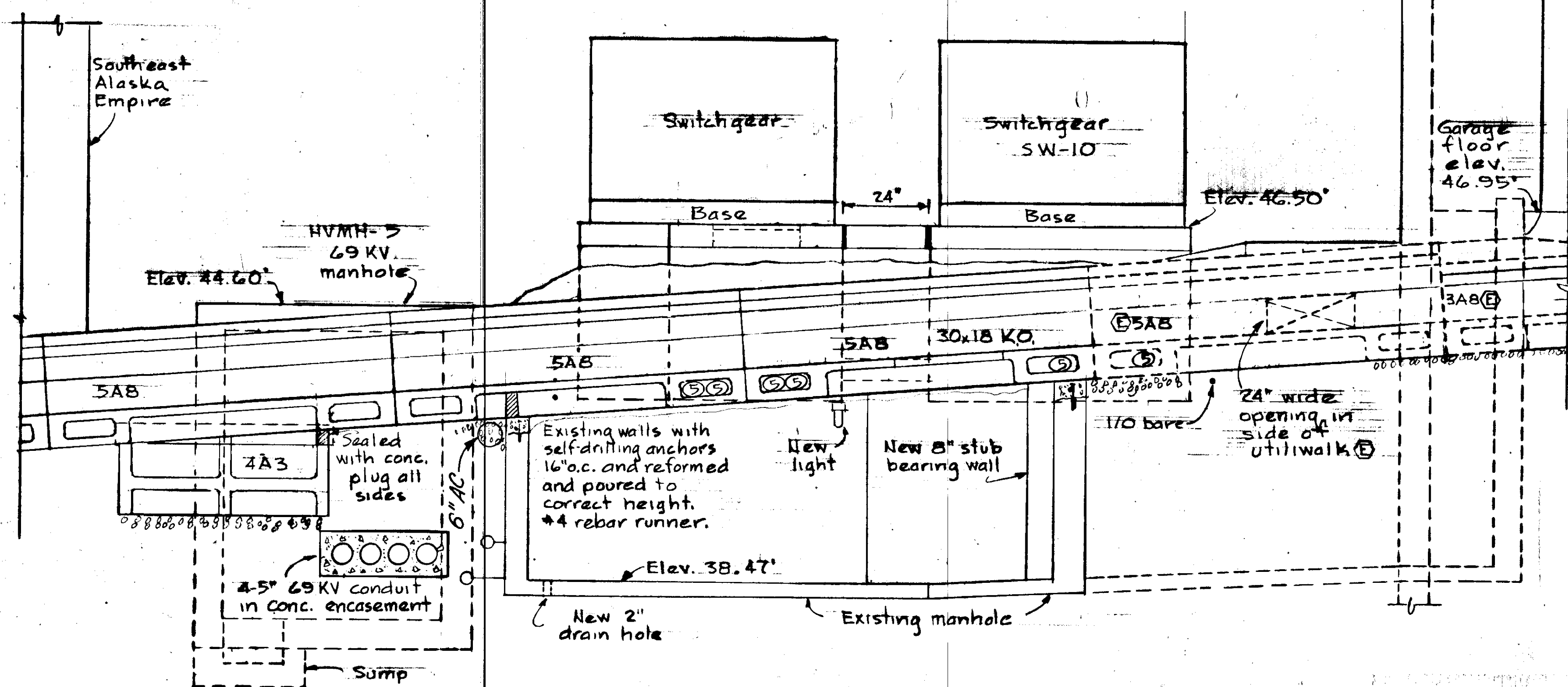
SECTION N-N
1/2" = 1'-0"



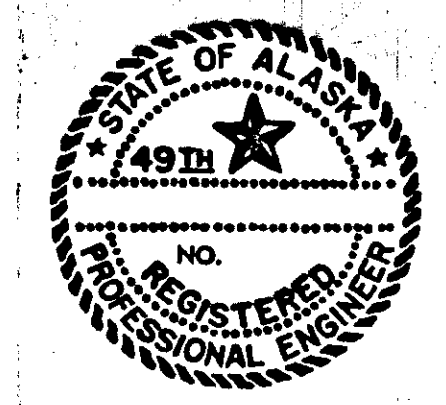
SECTION P-P
1/2" = 1'-0"



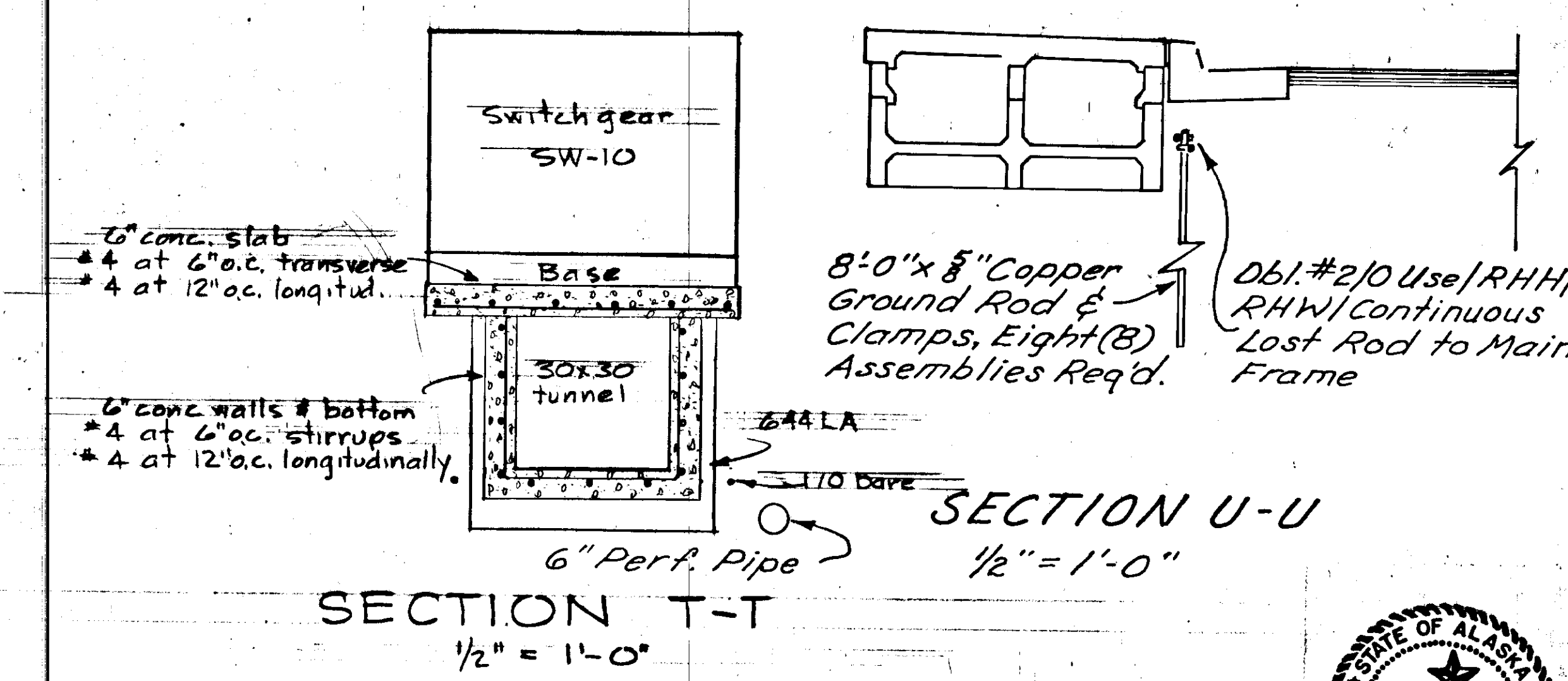
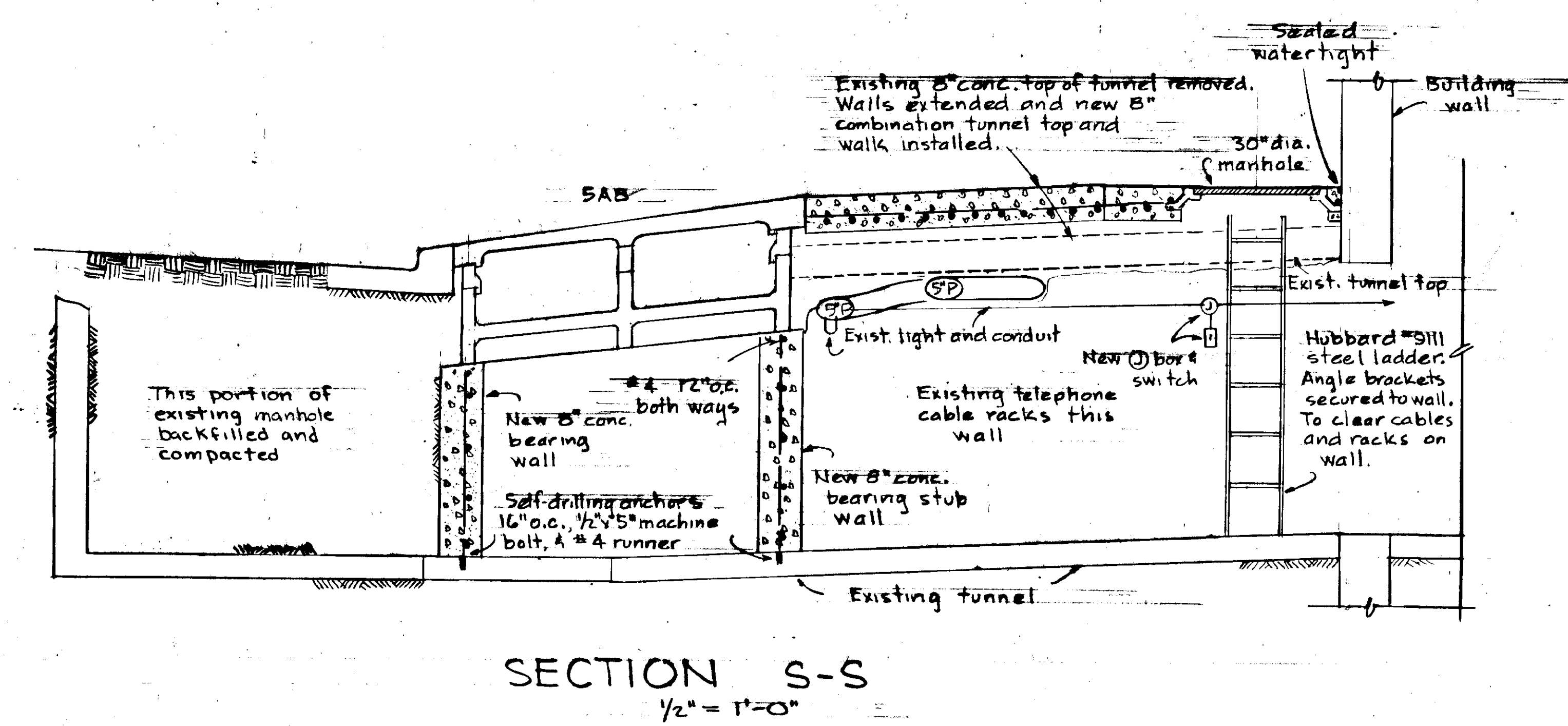
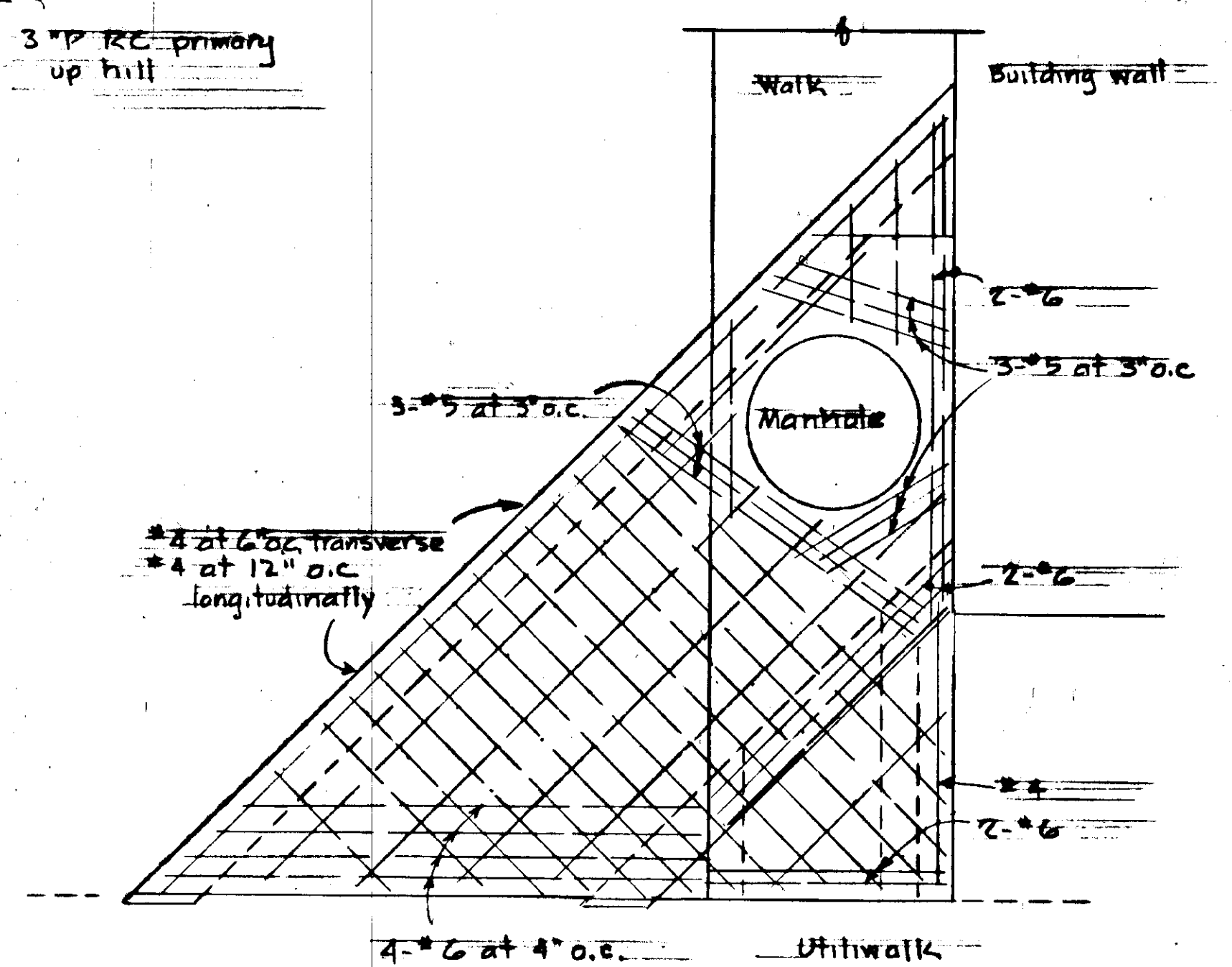
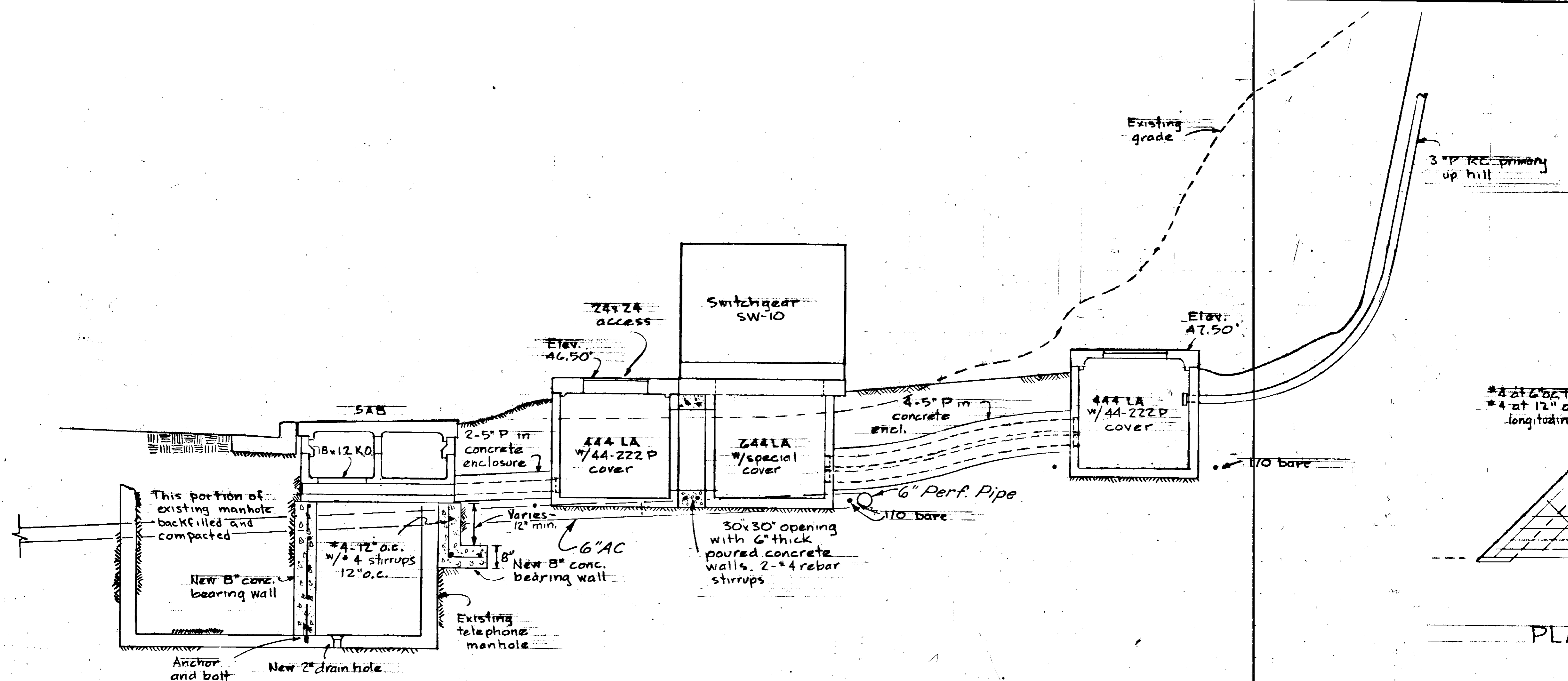
SECTION O-O
1/2" = 1'-0"



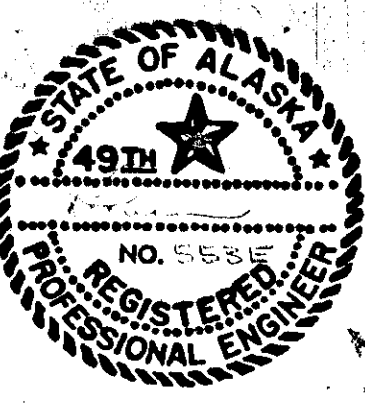
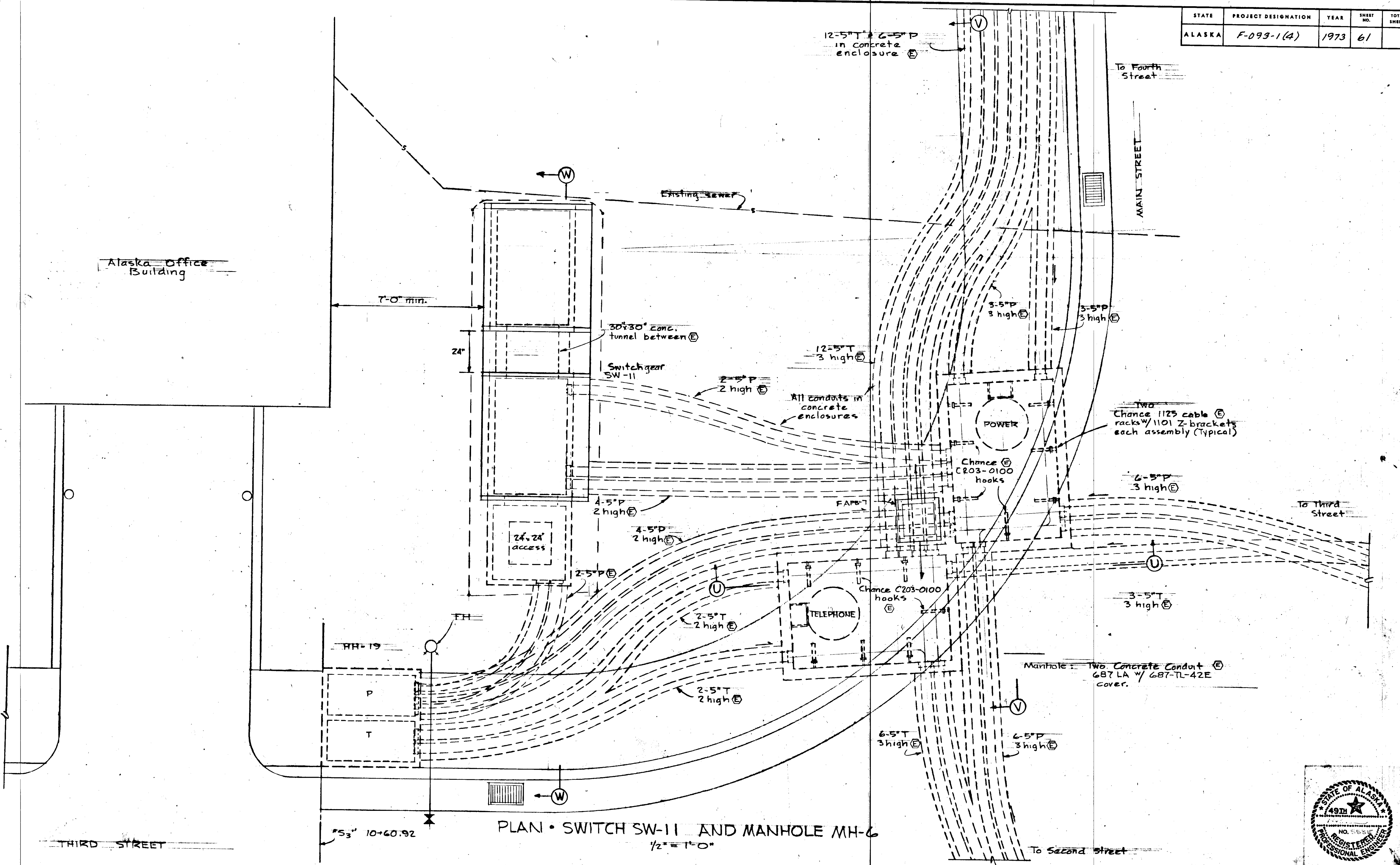
SECTION Q-Q
1/2" = 1'-0"



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOT SHE.
ALASKA	F-093-1(4)	1973	60	

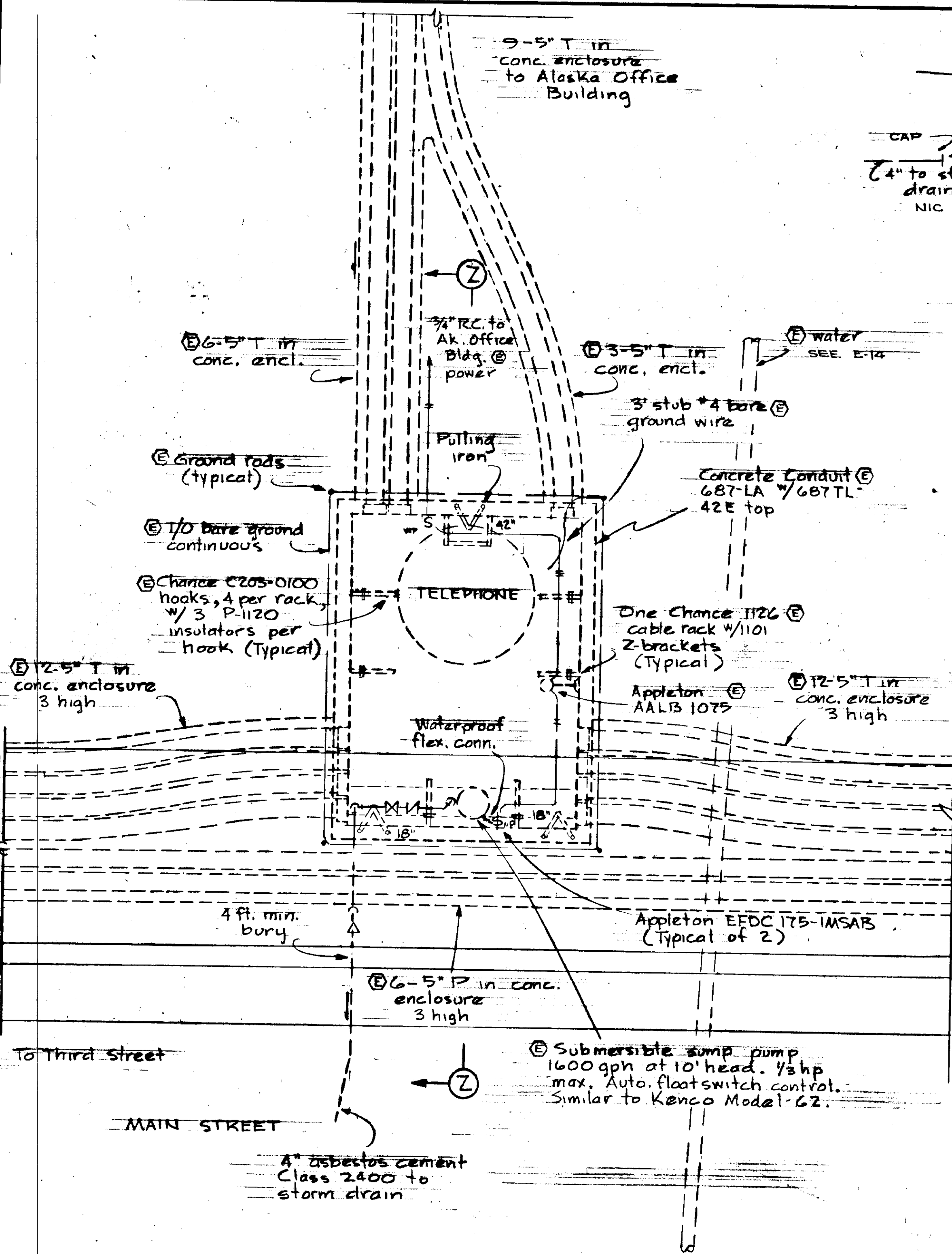


STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOT SHEETS
ALASKA	F-093-1(4)	1973	61	



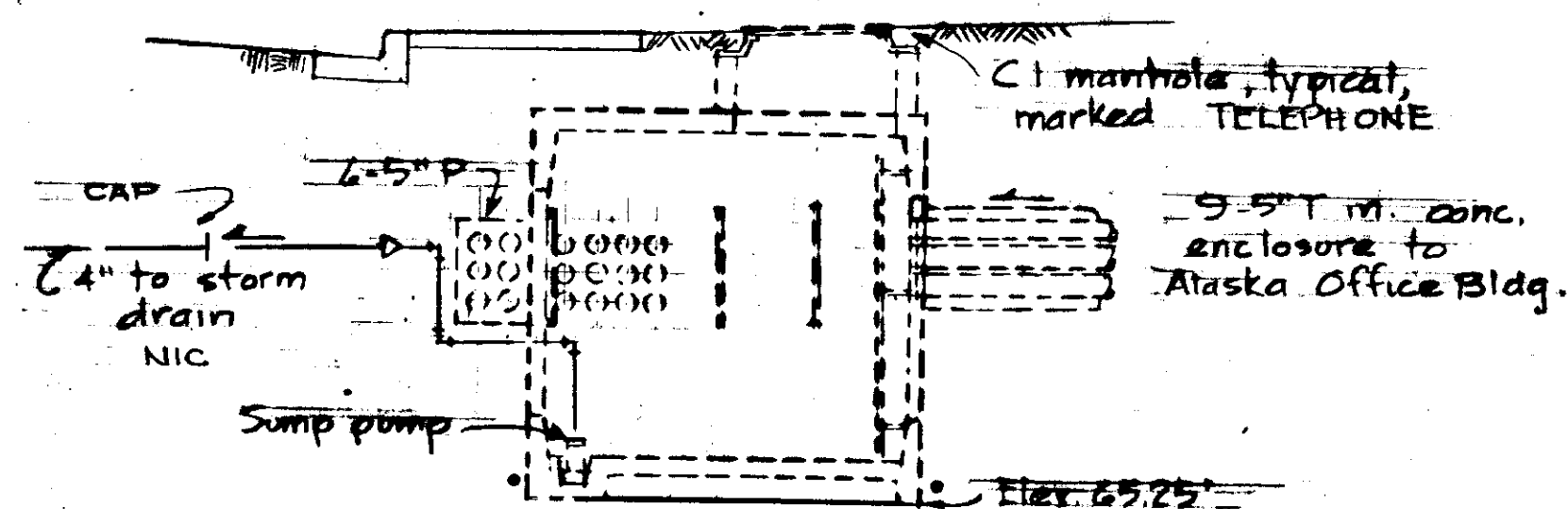
E-32

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOT SHE.
ALASKA	F-093-1(4)	1973	63	



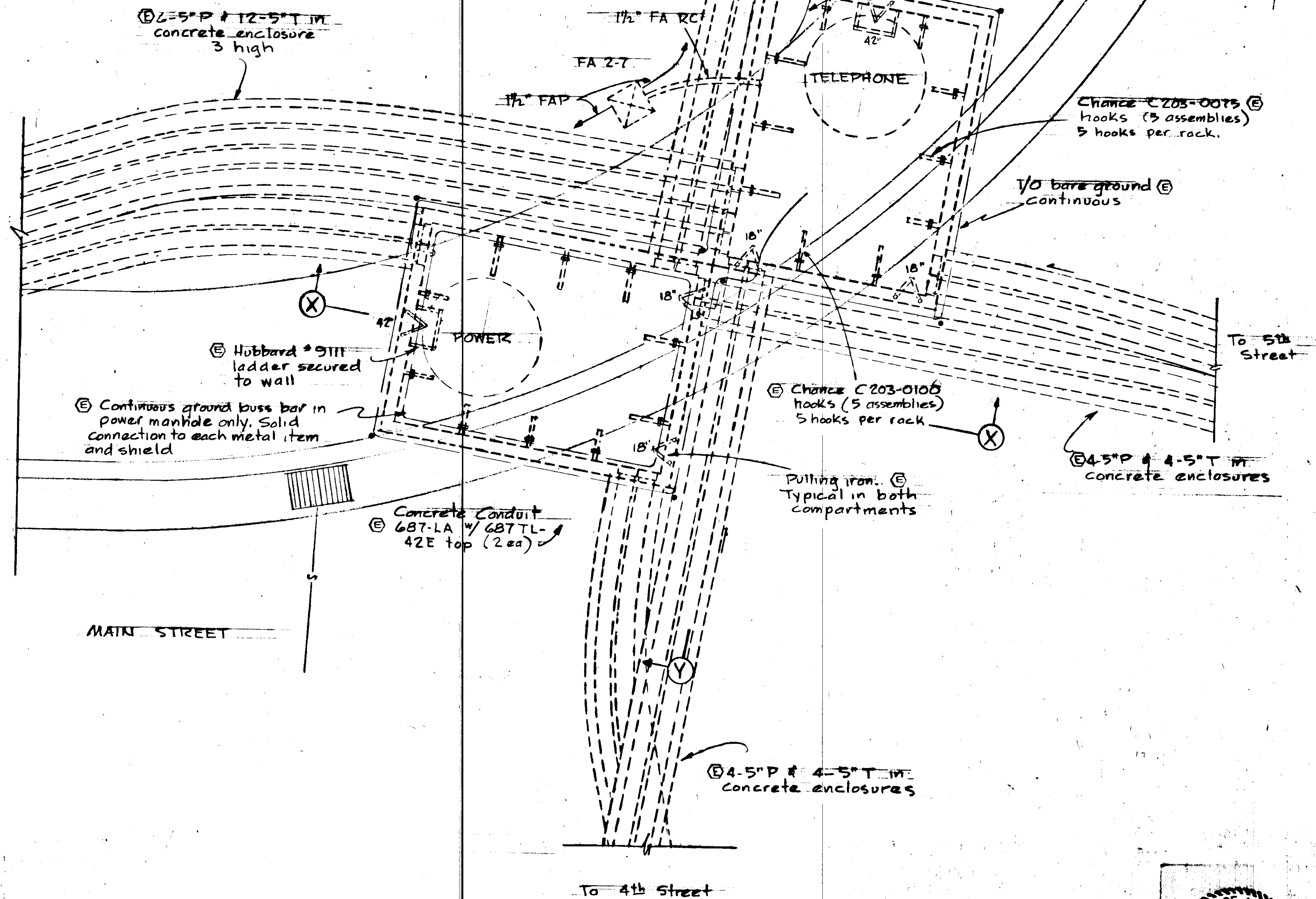
PLAN - MANHOLE 6A

1/2" = 1'-0"



SECTION Z-Z

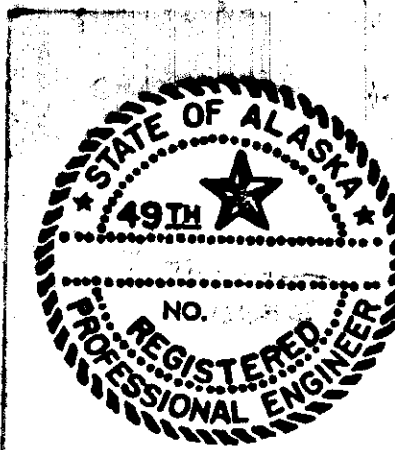
1/4" = 1'-0"



PLAN - MANHOLE MH-7

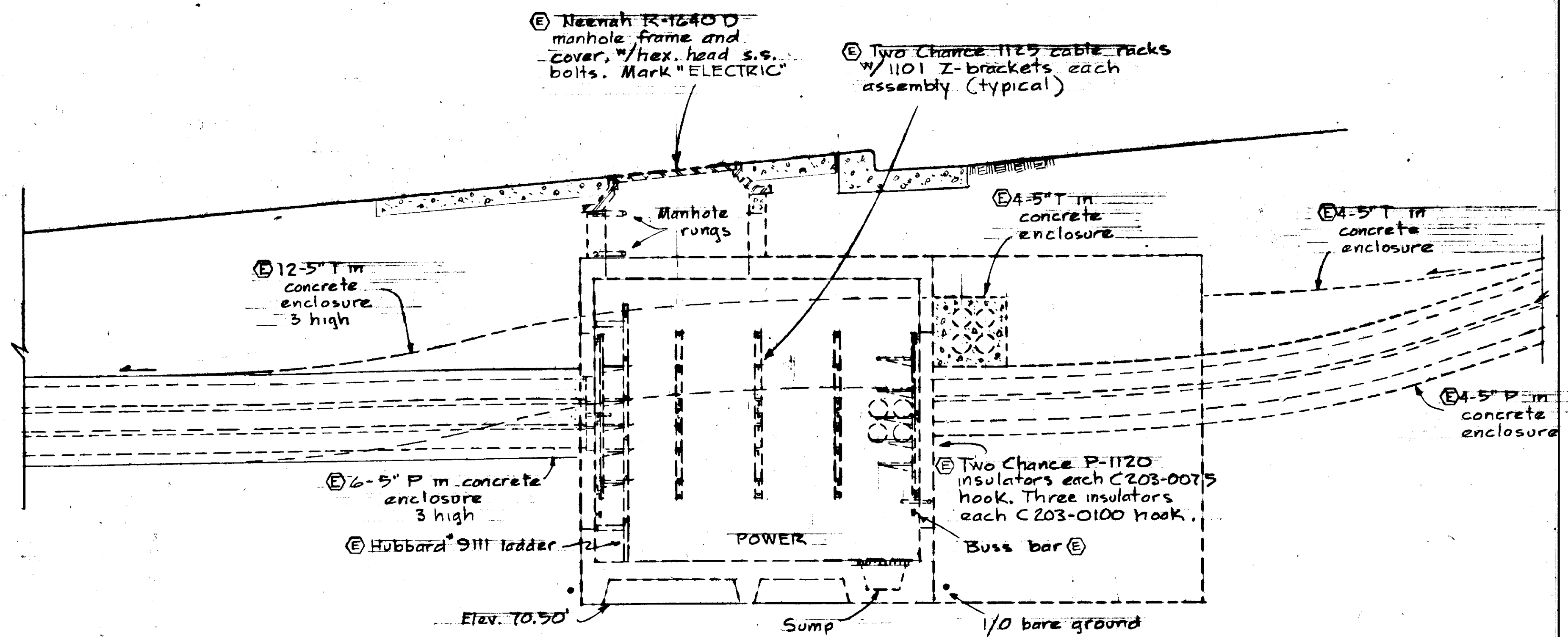
1/2" = 1'-0"

Note: Adjust all MH frames to new grade

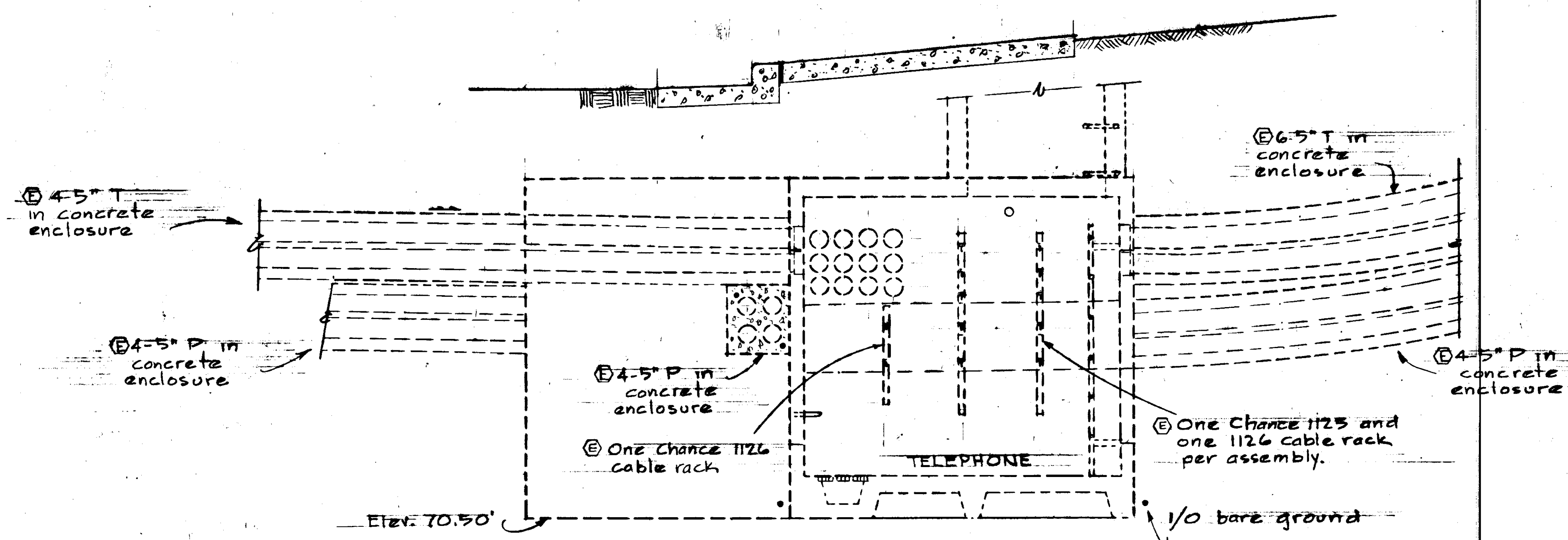


E-34

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-1(4)	1973	64	

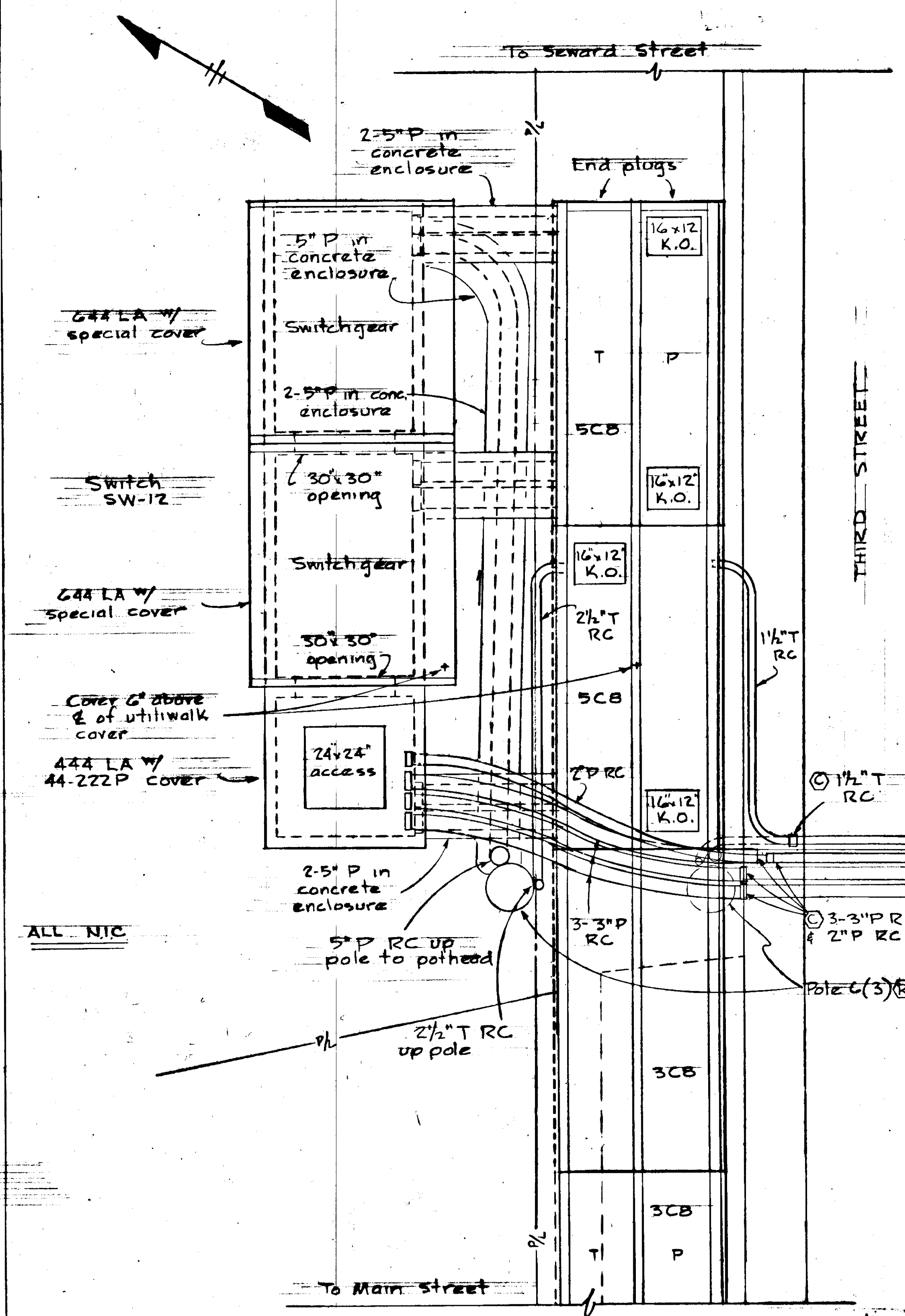


SECTION X-X
1/2" = 1'-0"

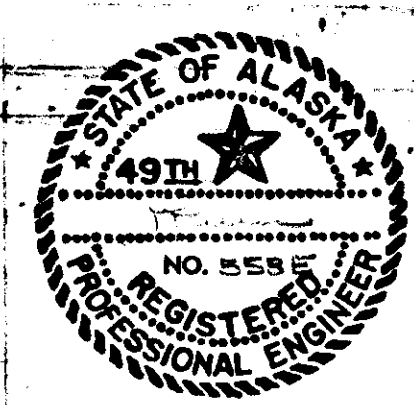


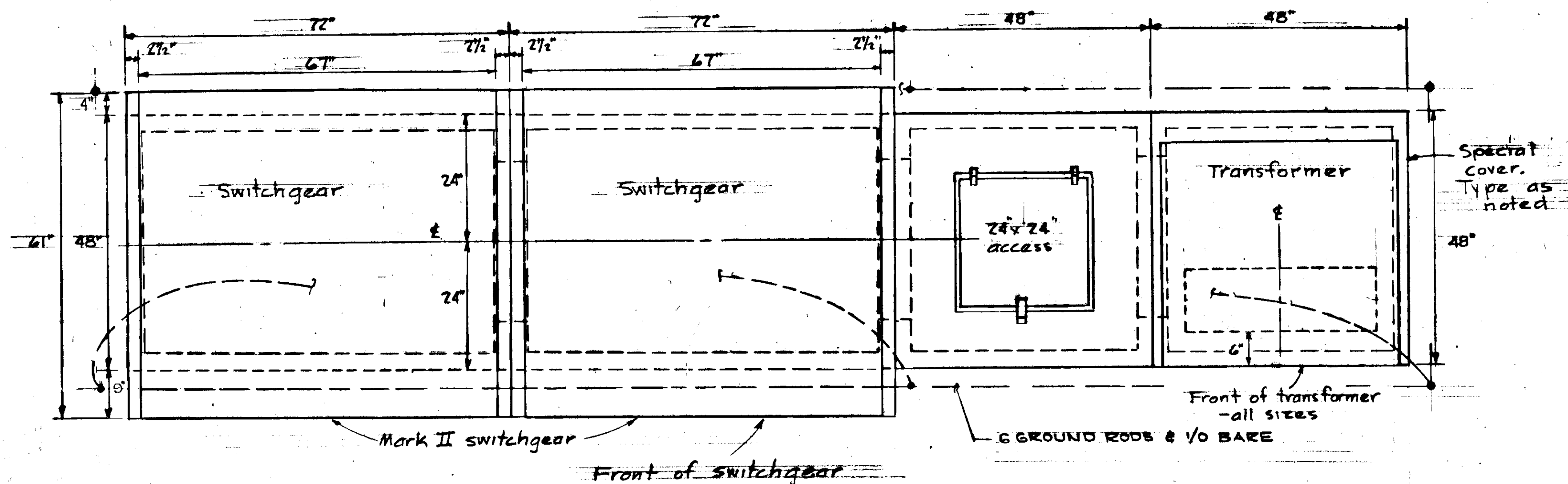
SECTION Y-Y
1/2" = 1'-0"

Note: Adjust all MH frames to new grade

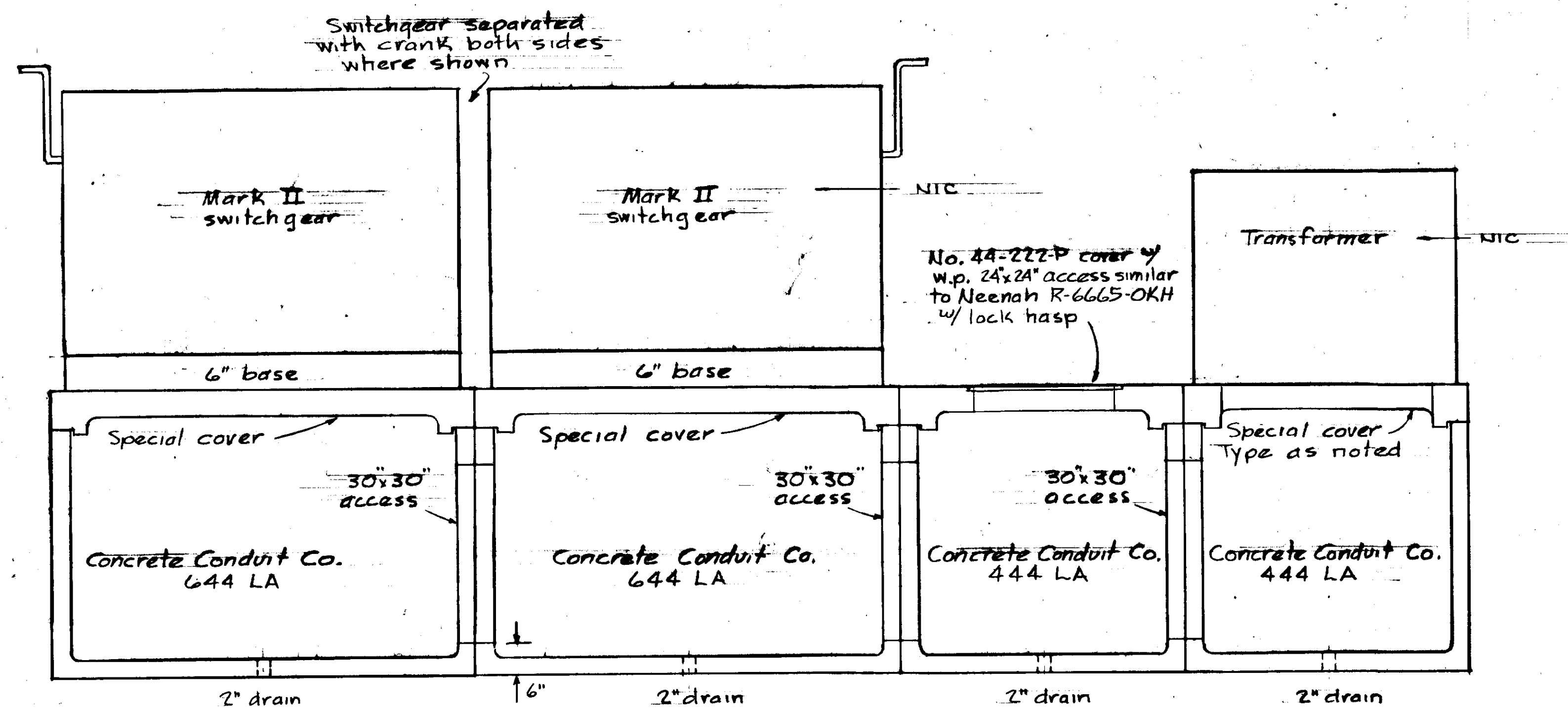


PLAN - SWITCH SW-12
1/2" = 1'-0"

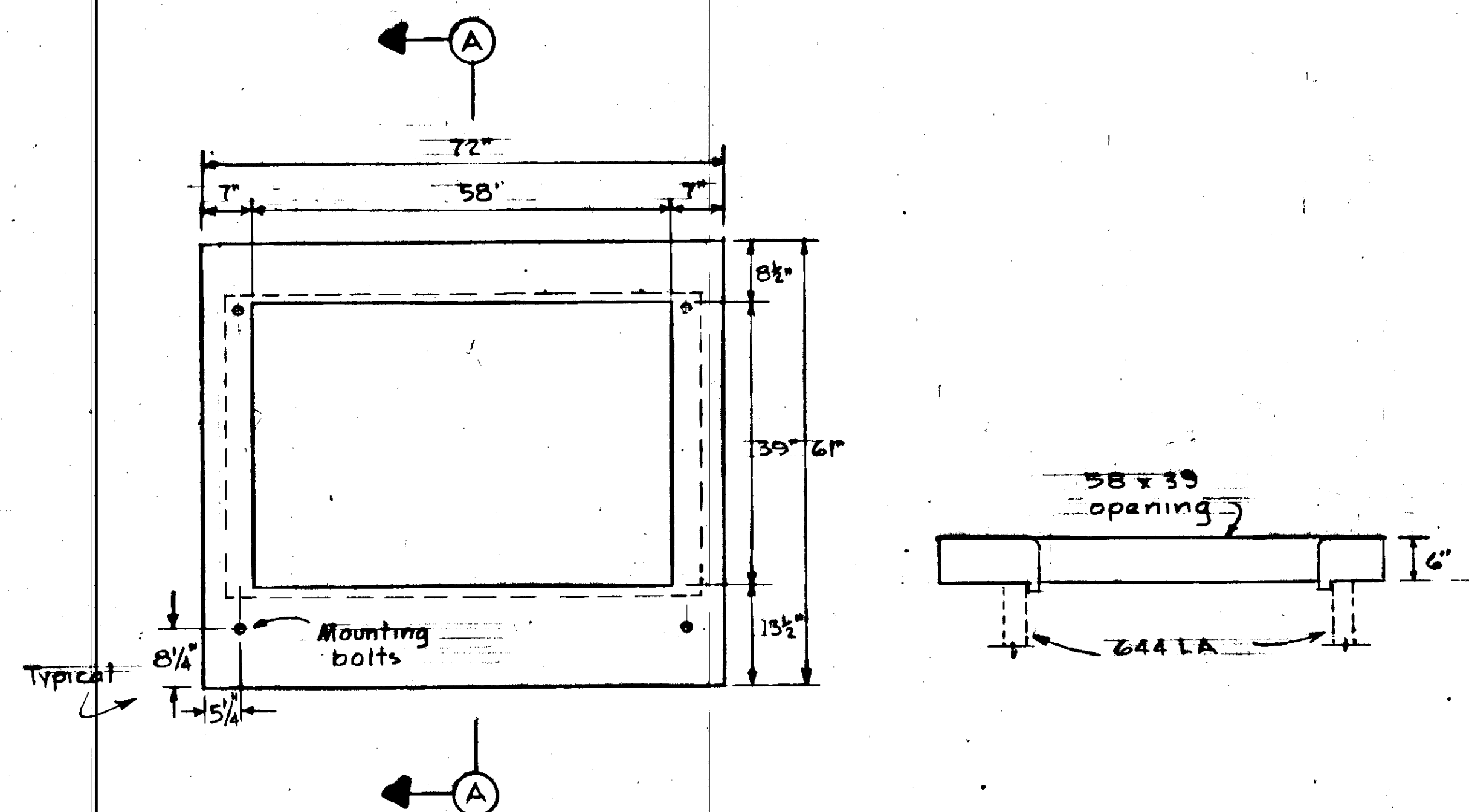




PLAN - TYPICAL SWITCH INSTALLATION
3/4" = 1'-0"

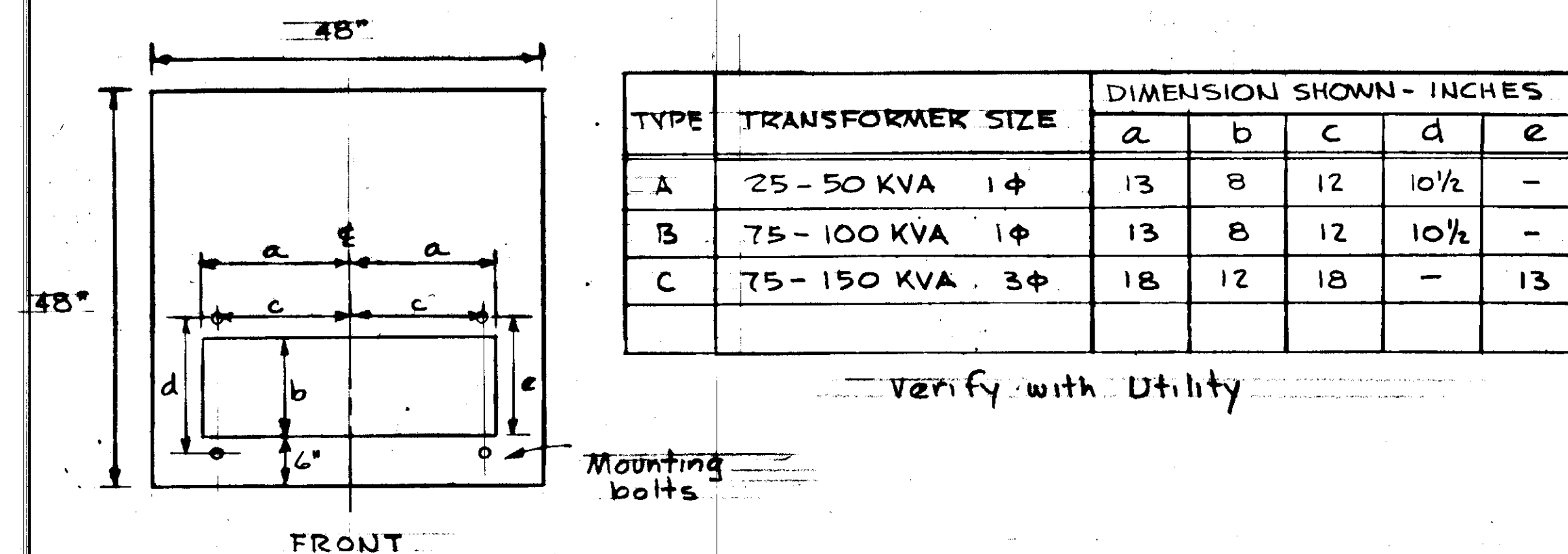


SECTION - TYPICAL SWITCH INSTALLATION
3/4" = 1'-0"



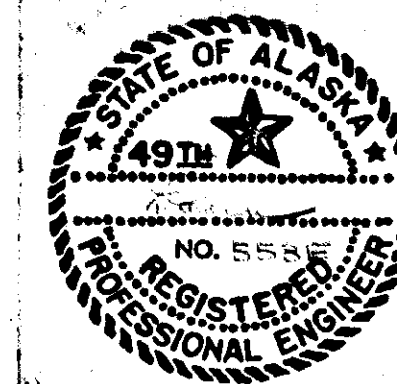
PLAN
SECTION A-A
SPECIAL COVER FOR MARK II SWITCHGEAR
3/4" = 1'-0"

NOTE THAT COVER IS NOT SYMMETRICAL & SHALL BE FABRICATED AS SHOWN.

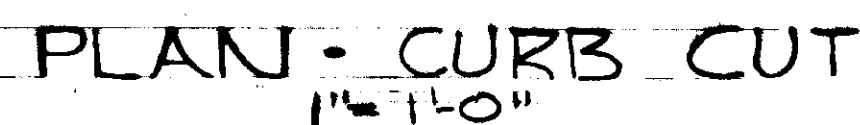
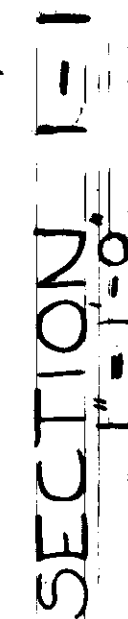


PLAN
SPECIAL COVER FOR TRANSFORMER
3/4" = 1'-0"

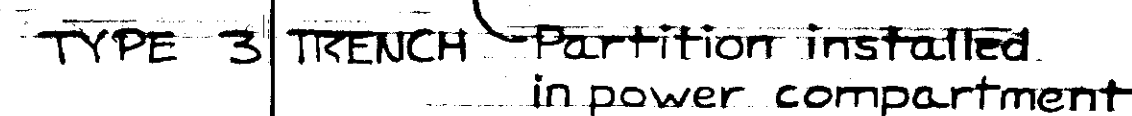
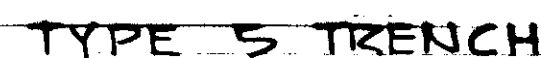
N.I.C.



E-36



1. At offsets in alignment of
utiliwalk sections, ends of
both sections bevelled equally.
2. Concrete topping placed on
compacted gravel under each
end of each utiliwalk section to
24" from end. Three 2" diam. min.
holes canned in concrete under each
utiliwalk section junction for
drainage.
3. Plastic or nylon plug for each
opening not used for conduit
connections, typical of all sections.
Openings with conduit connections
sealed with grout around conduit.

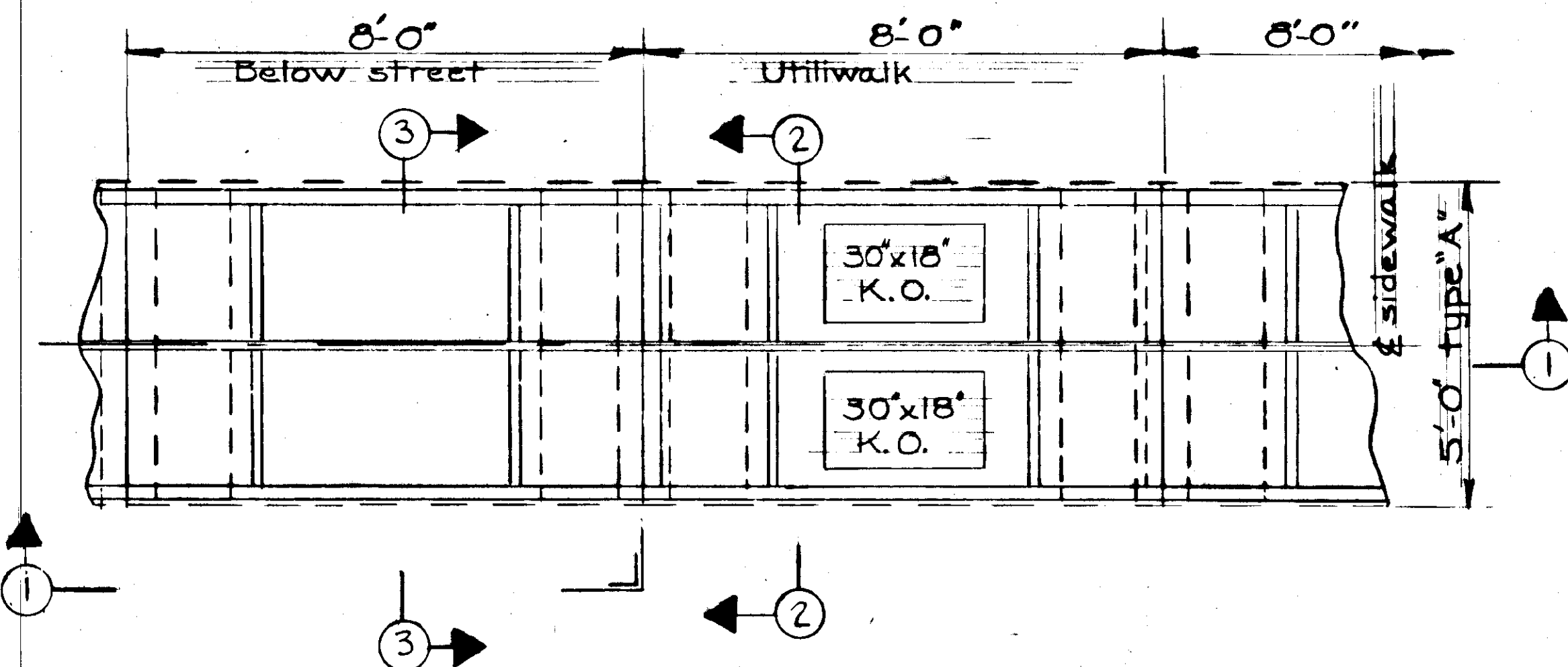

$$1^2 = 1 - 0^2$$

TRENCH TYPE

COVER TYPE

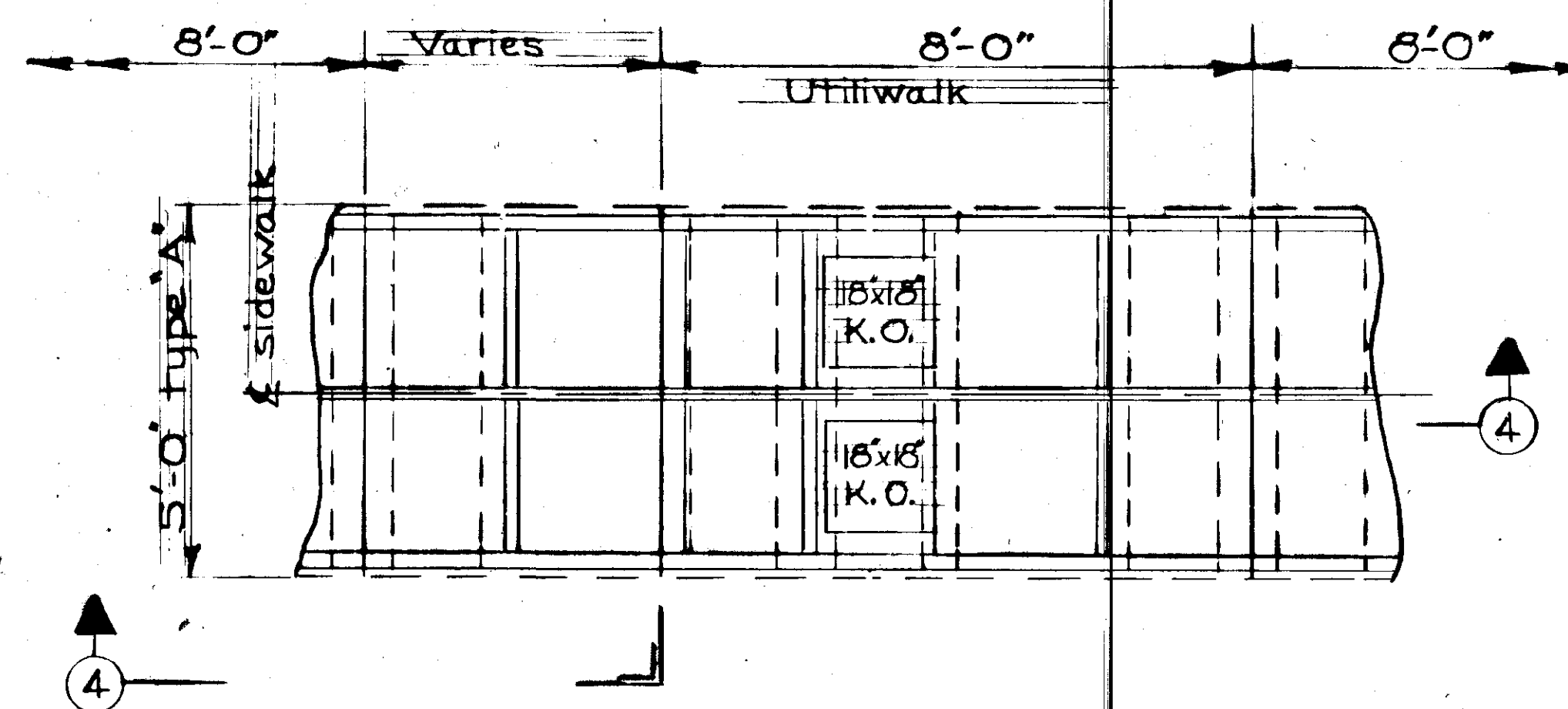
UTILIWALK DESIGNATION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-1(4)	1973	67	



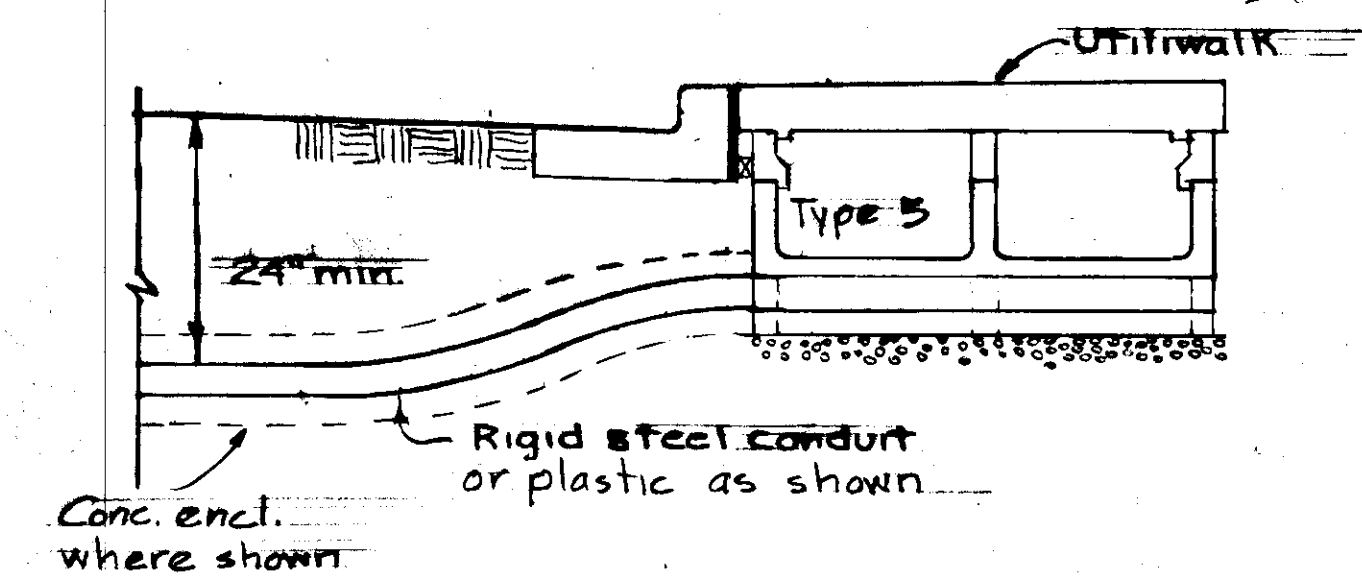
PLAN - UNDERCROSSING - FULL LAP

1/2" = 1'-0"



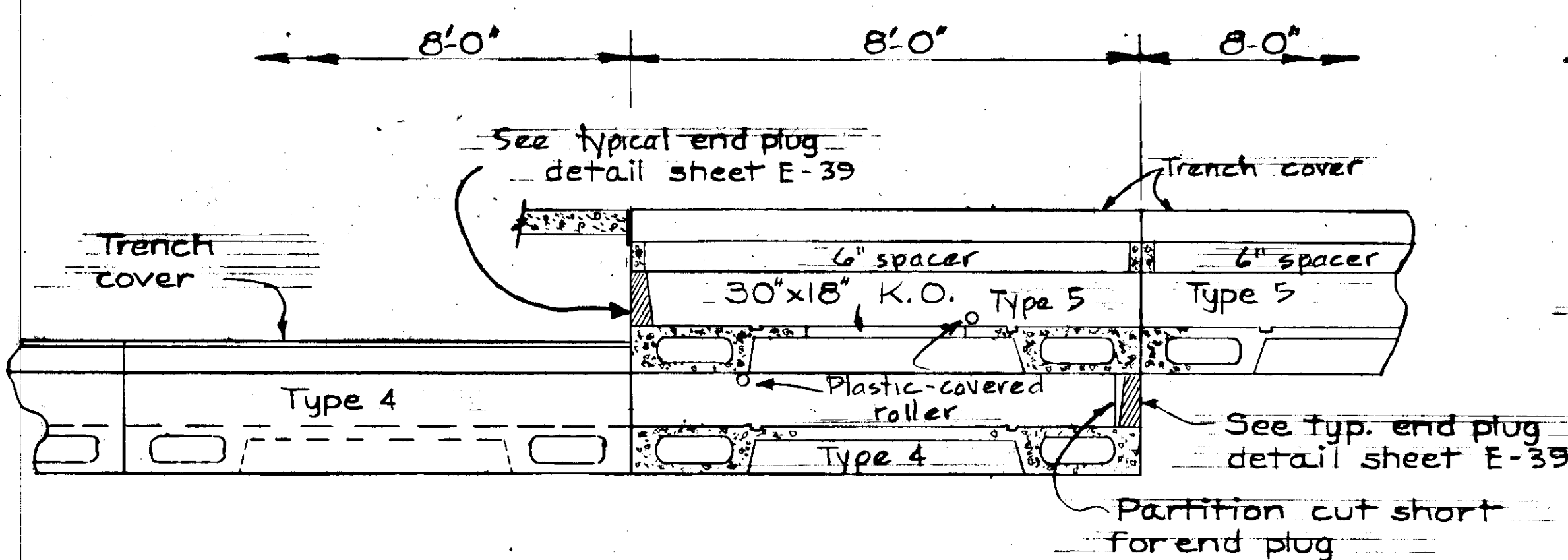
PLAN - UNDERCROSSING - PARTIAL LAP

1/2" = 1'-0"



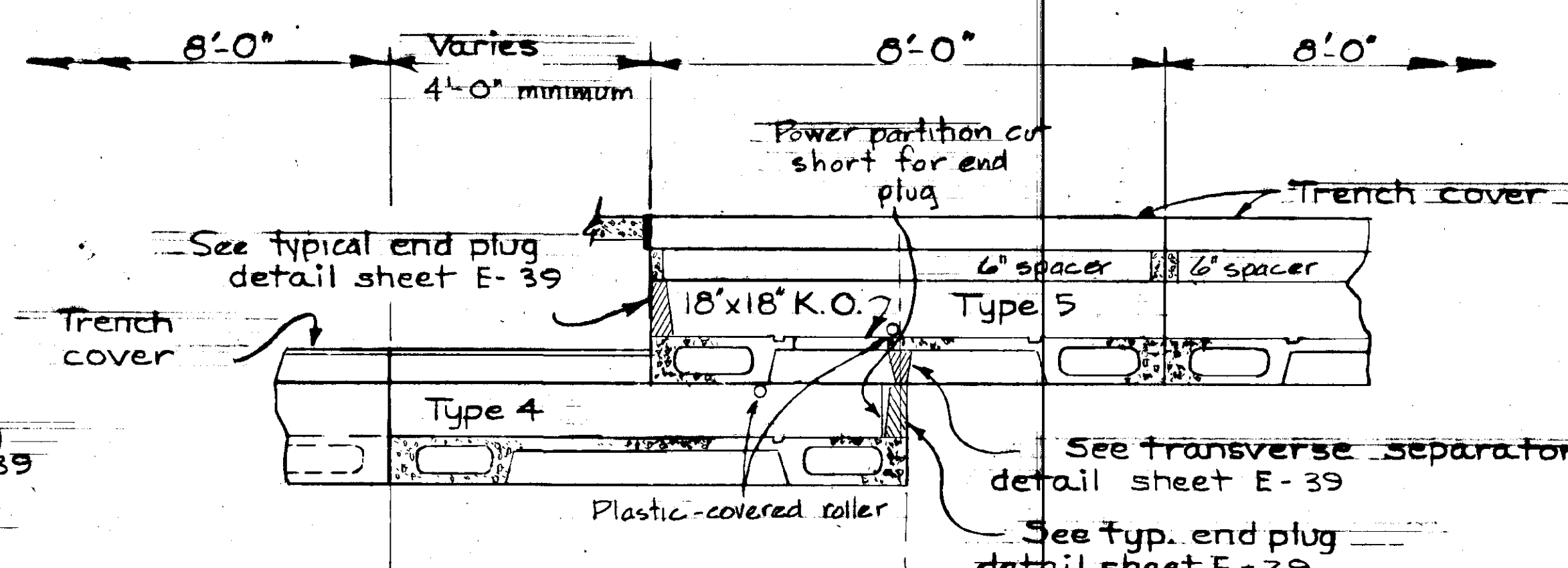
TYPICAL CONDUIT CONNECTION TO UTILITY WALK

1/2" = 1'-0"



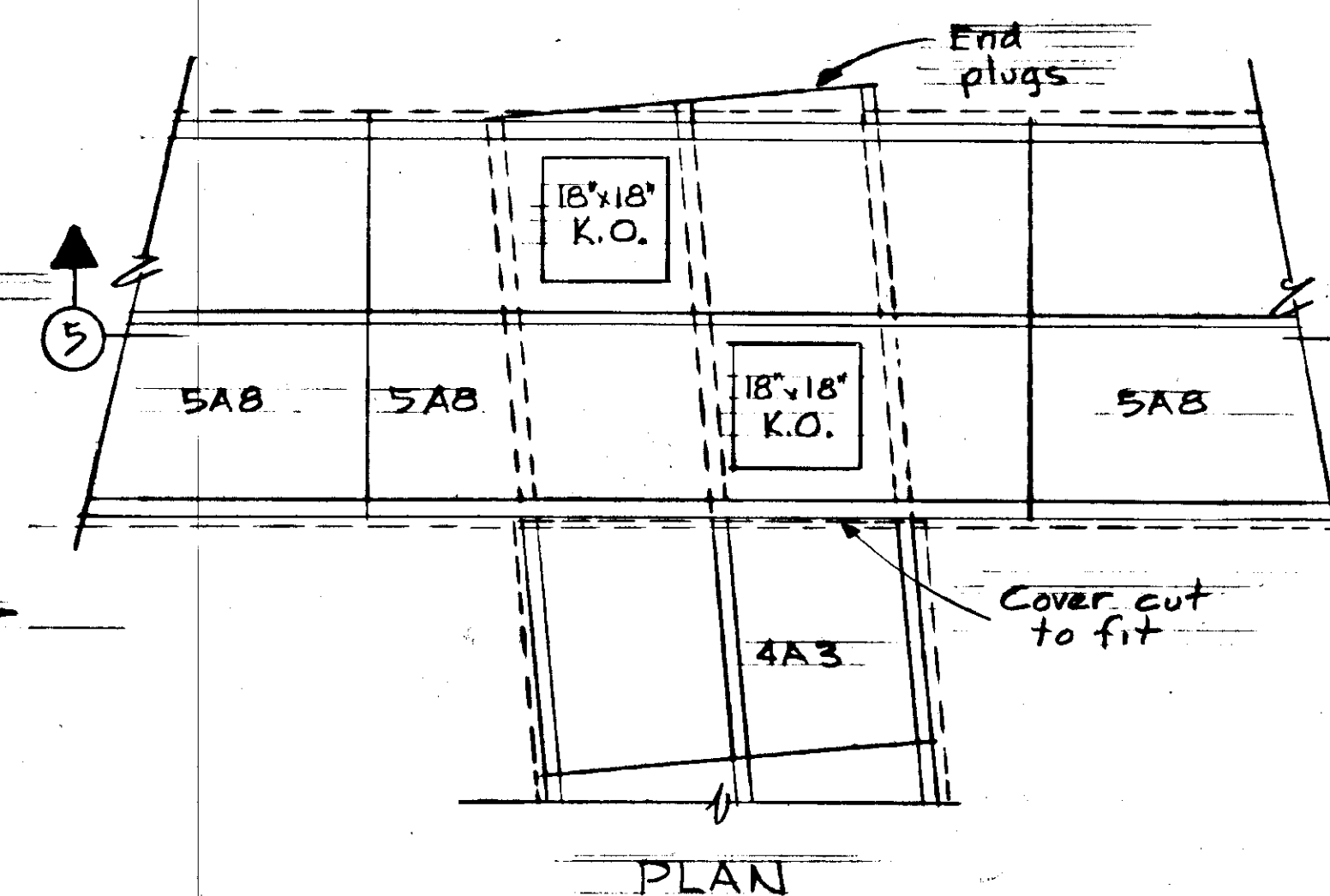
SECTION 1-1

1/2" = 1'-0"

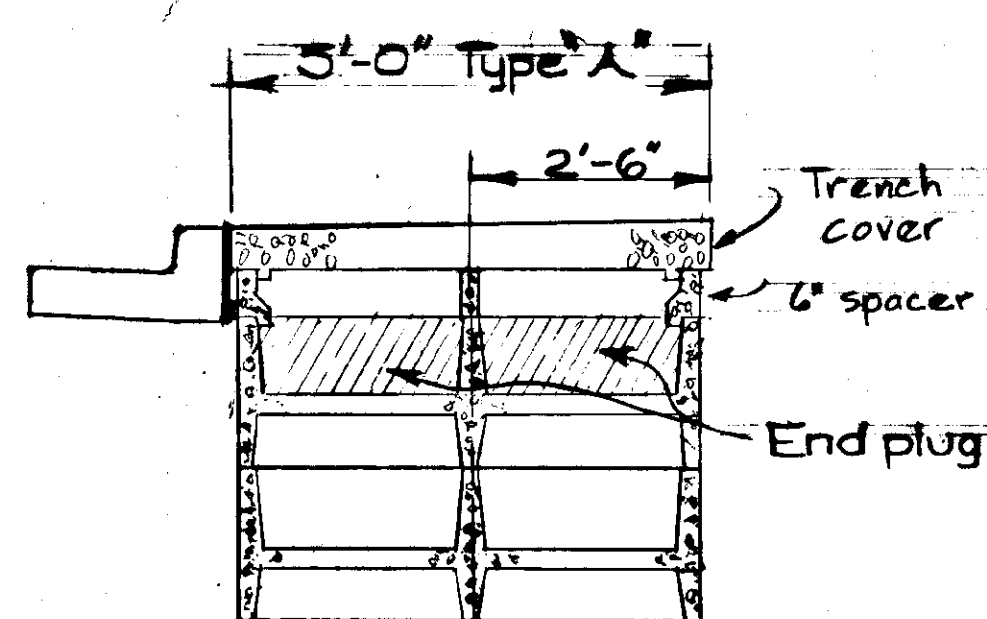


SECTION 4-4

1/2" = 1'-0"

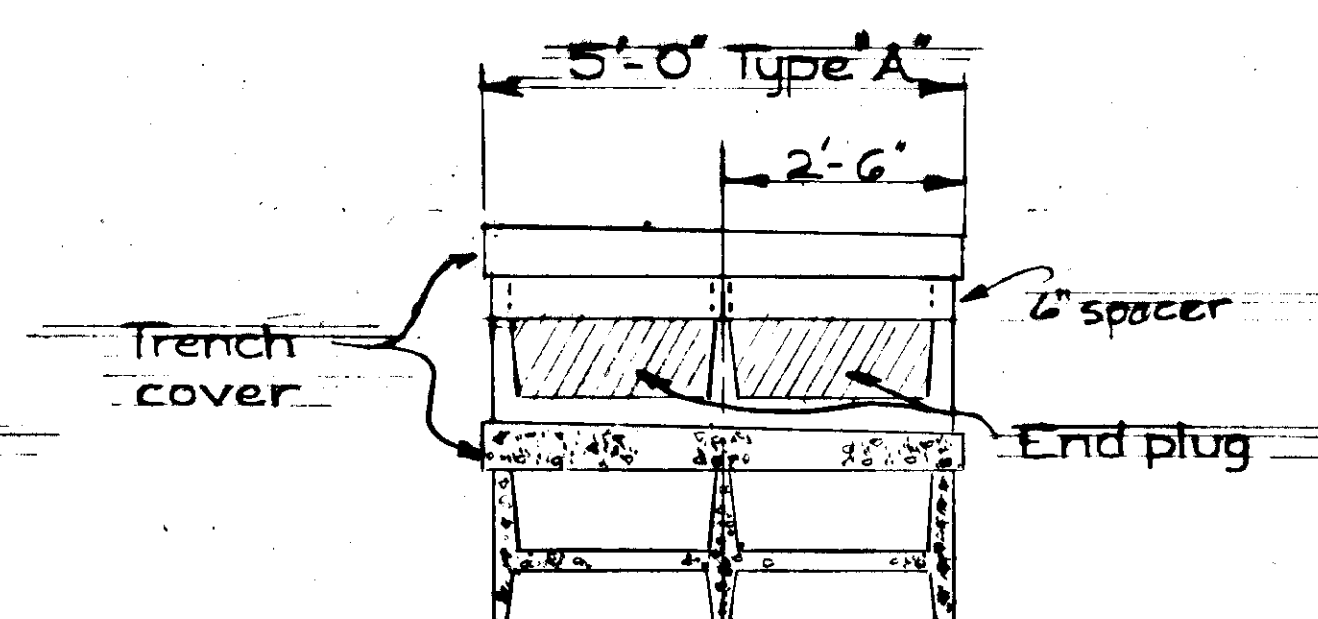


PLAN



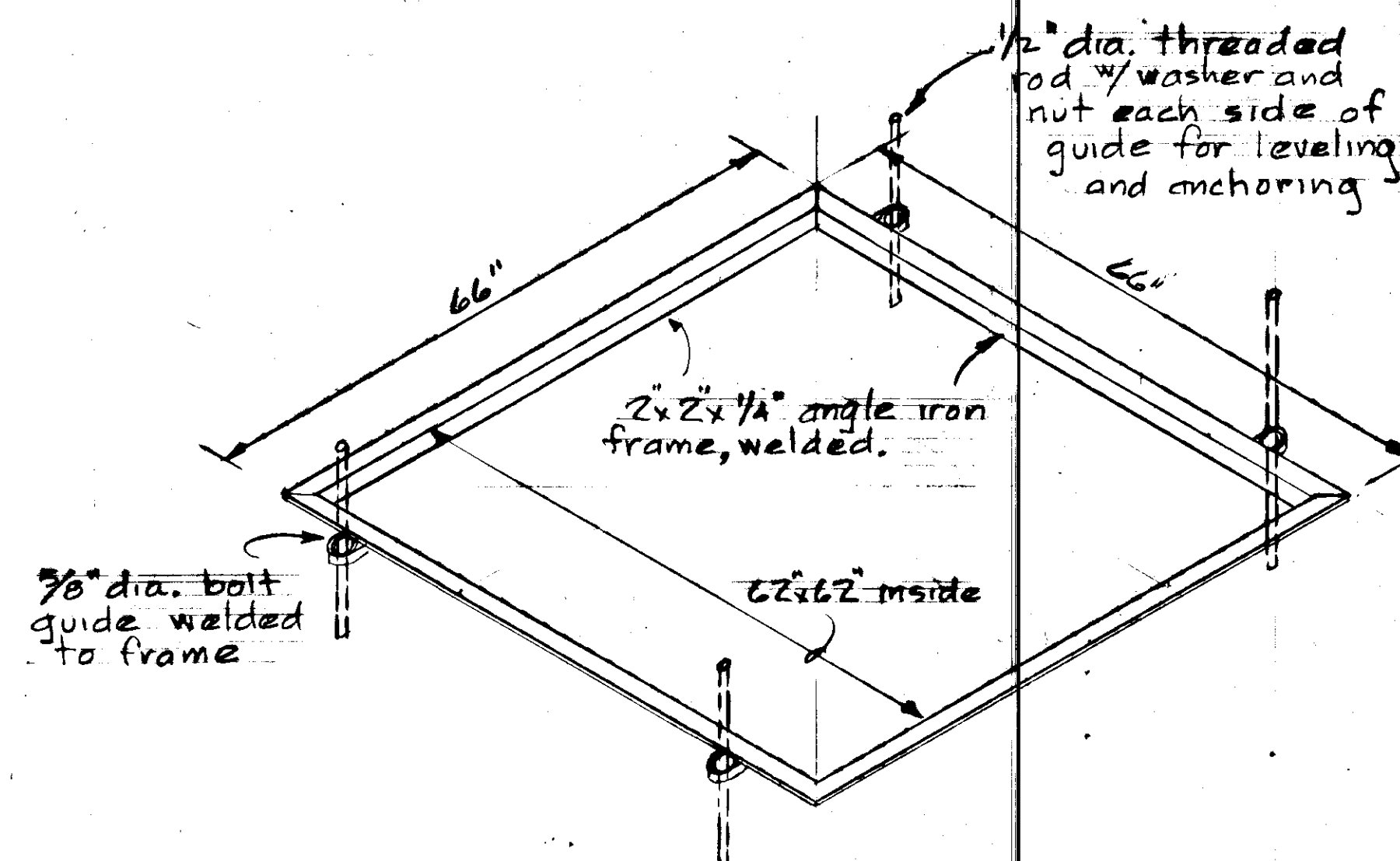
SECTION 2-2

1/2" = 1'-0"



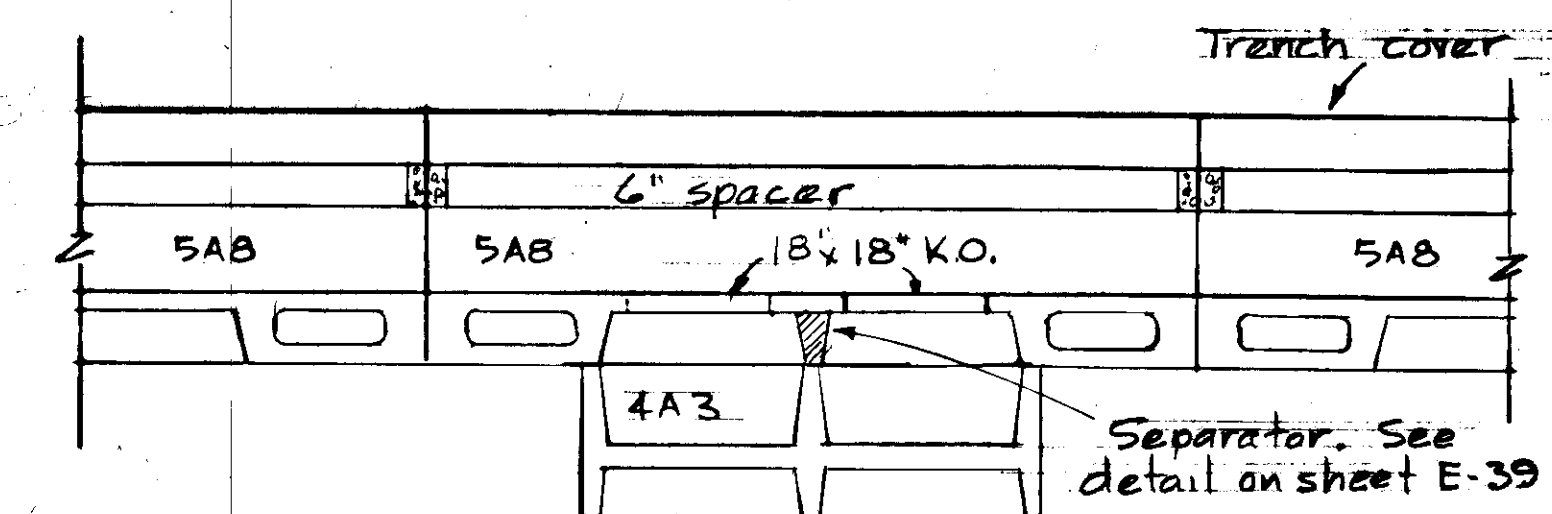
SECTION 3-3

1/2" = 1'-0"



SUGGESTED CONCRETE PAD FRAME

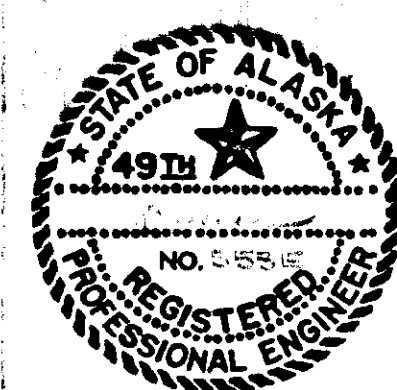
No Scale



SECTION 5-5

UTILITY WALK JUNCTION DETAIL

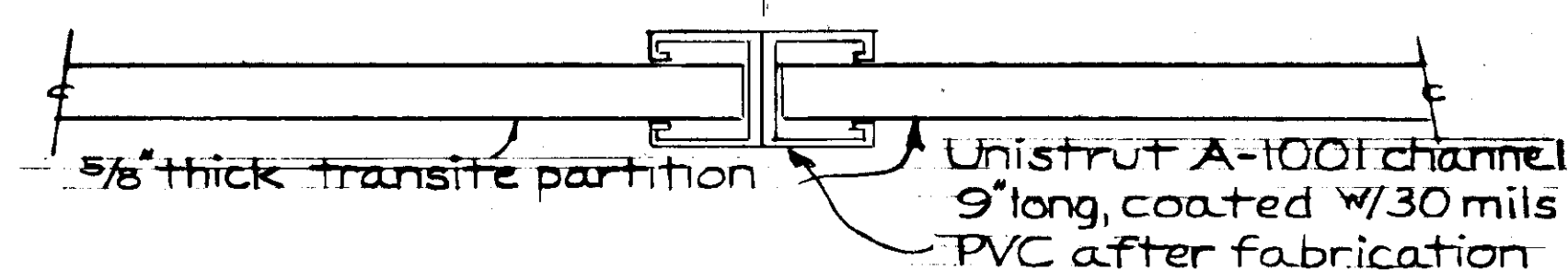
1/2" = 1'-0"



E-38

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-1(4)	1973	68	

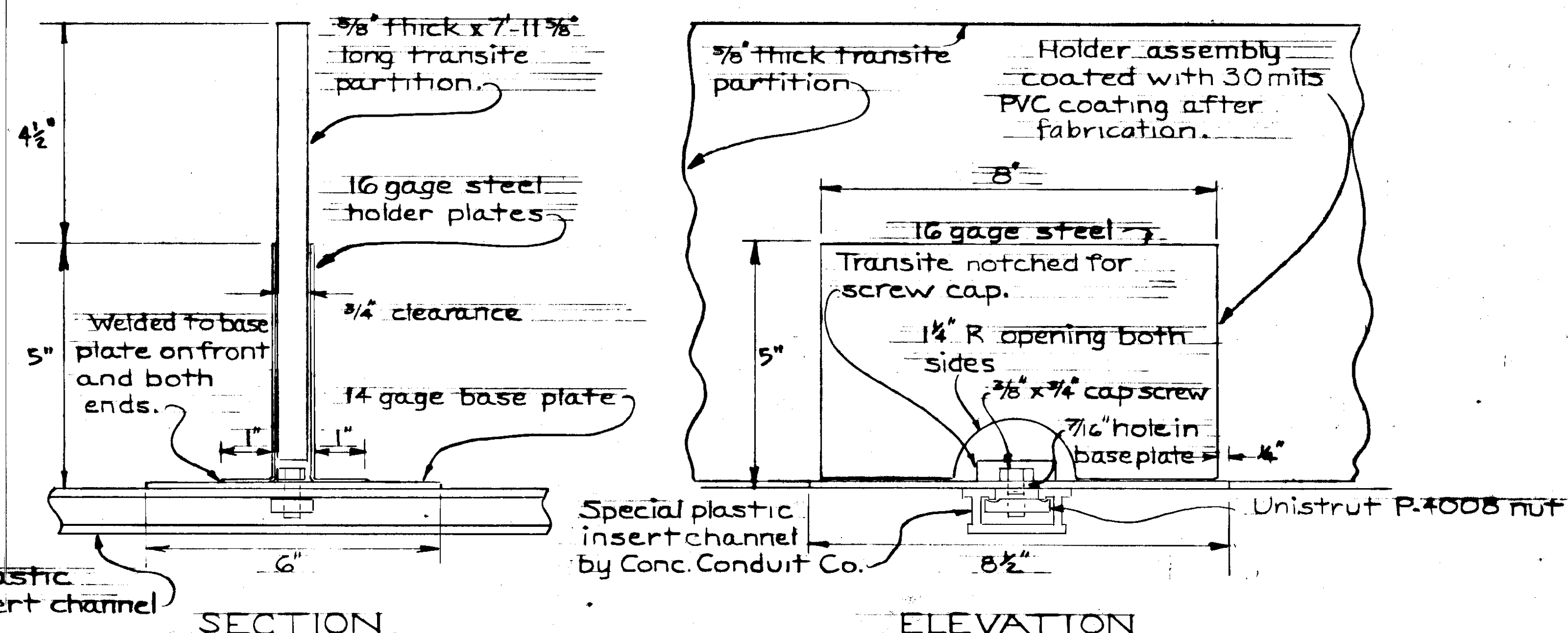
8'-0" utilwalk section



PLAN

NOTES:

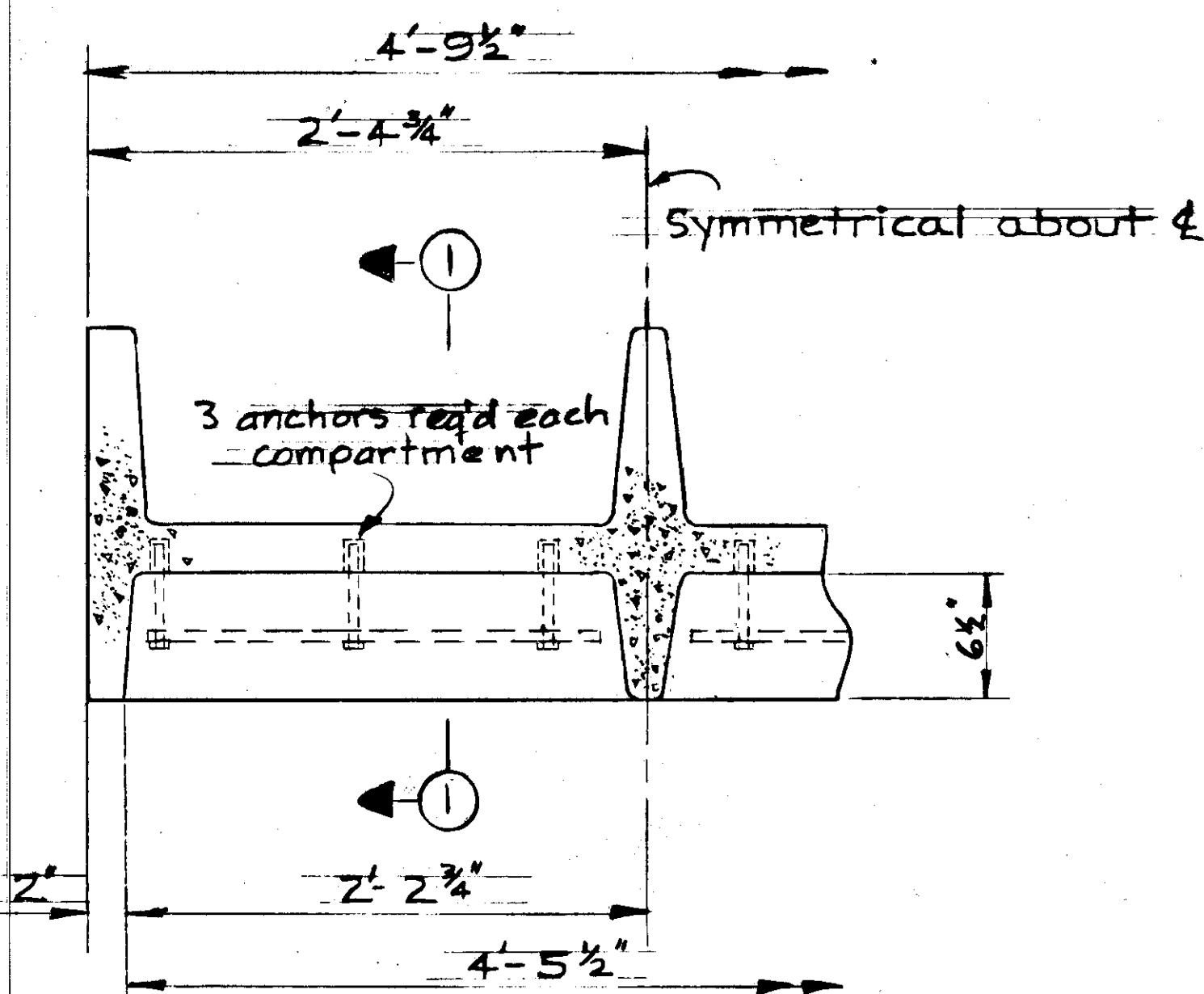
1. Partition assembly required
ALL NEW UTILWALK SECTIONS & E-10 sections
2. Partition installed at center of power compartment only.
3. Two holder assemblies required per utilwalk section.



ELEVATION

DETAIL - PARTITION HOLDER ASSEMBLY

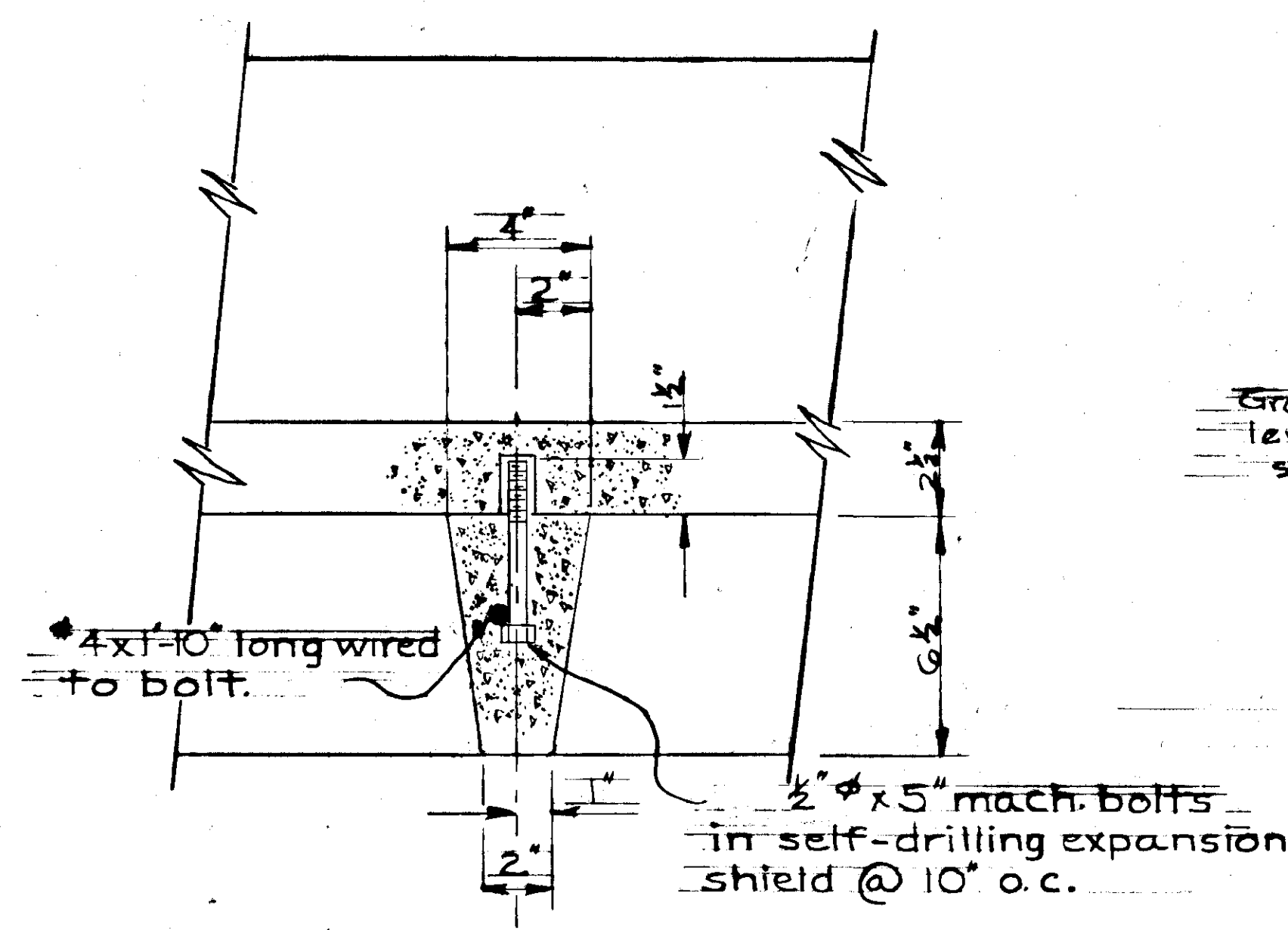
6" = 1'-0"



ELEVATION

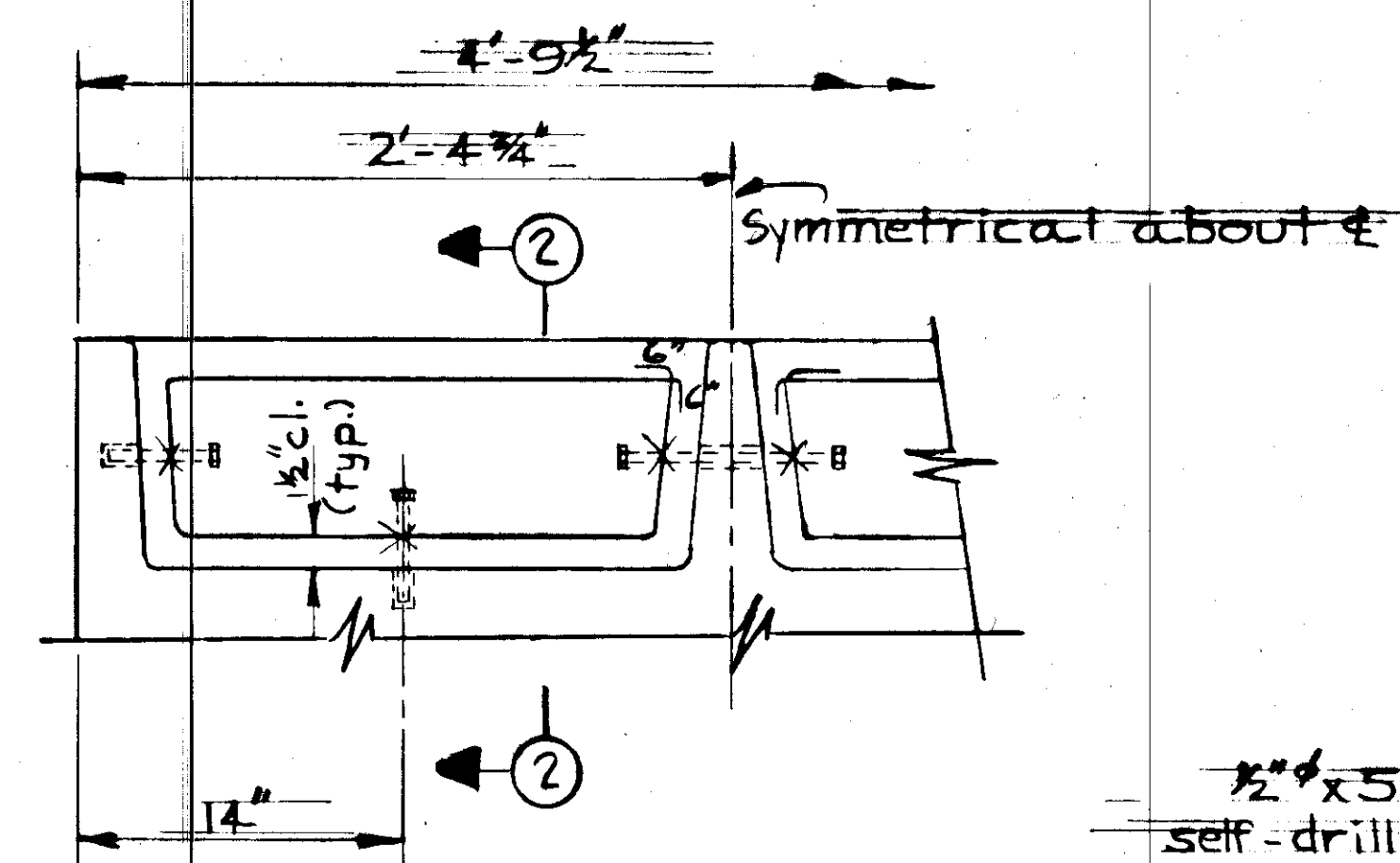
1 1/2" = 1'-0"

DETAIL - TRANSVERSE SEPARATOR



SECTION 1-1

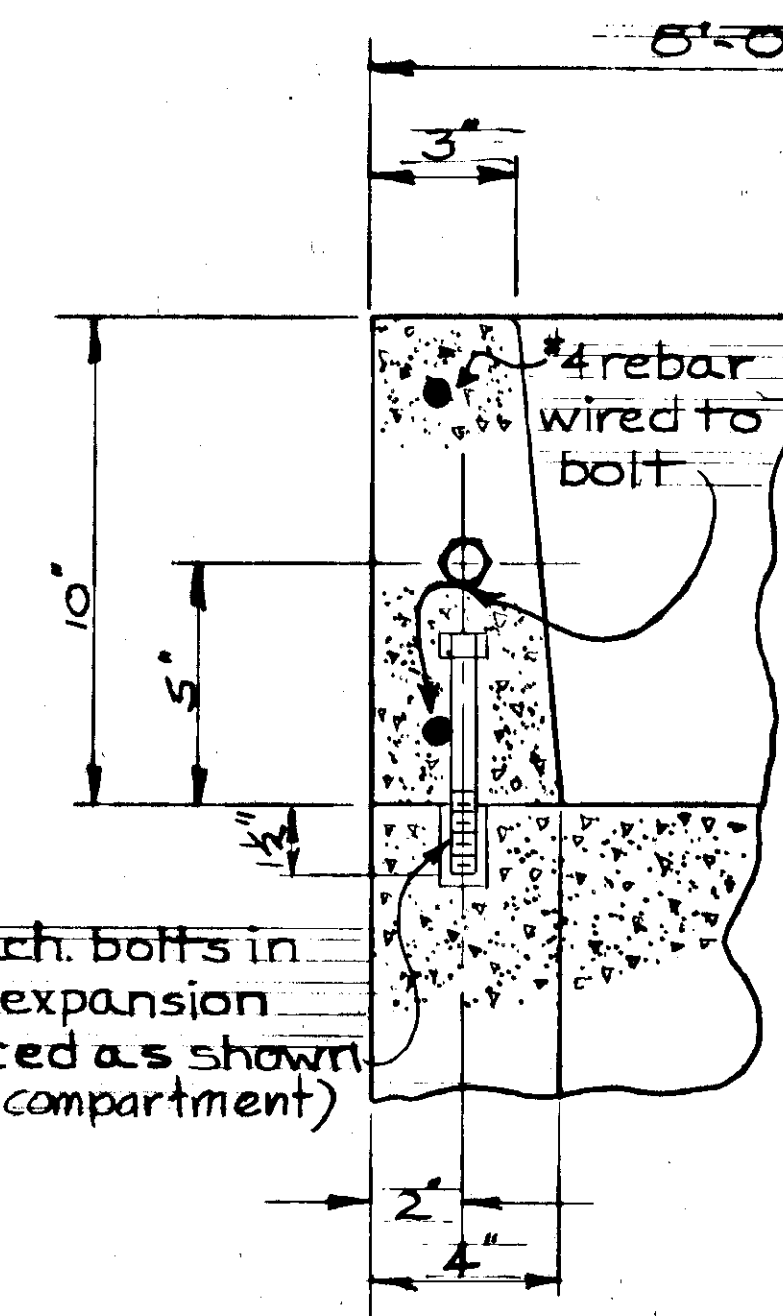
3" = 1'-0"



ELEVATION

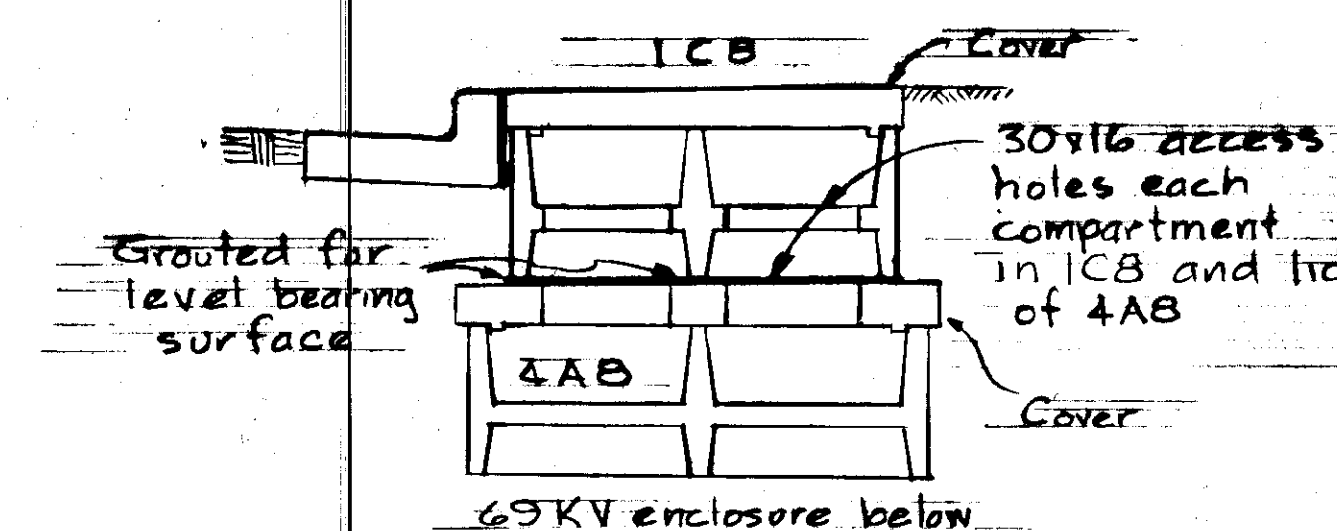
1 1/2" = 1'-0"

TYPICAL END PLUG



SECTION 2-2

3" = 1'-0"

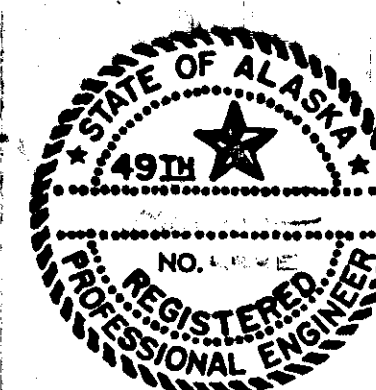
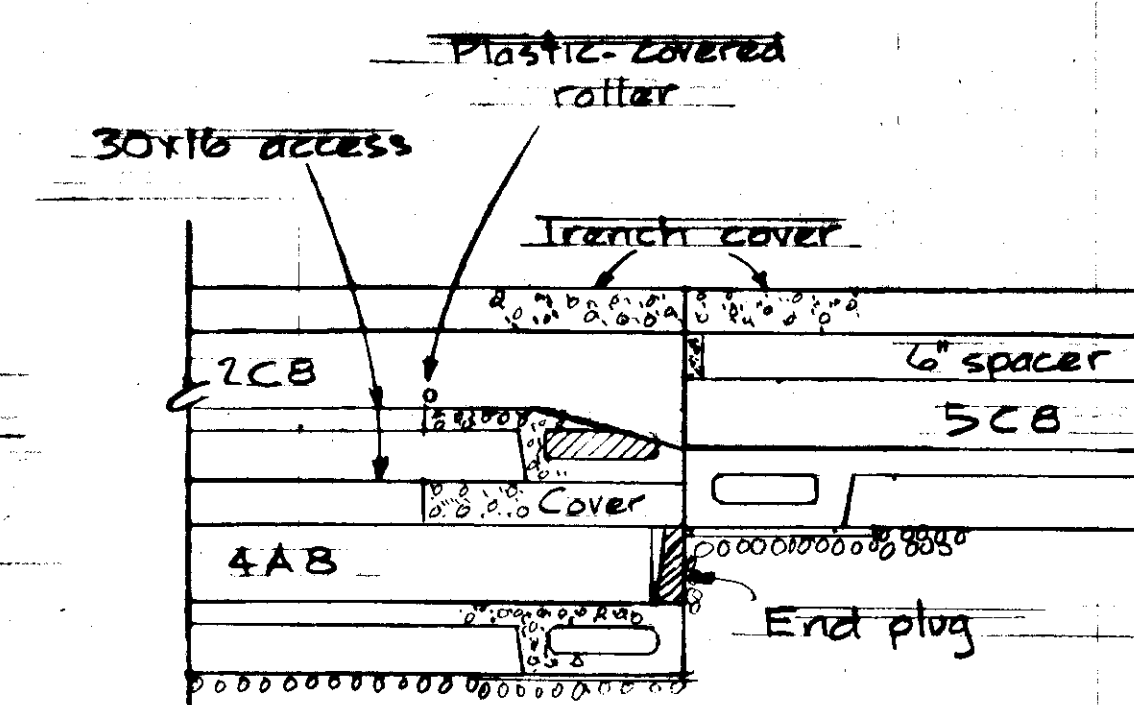


TRANSVERSE SECTION

LONGITUDINAL SECTION

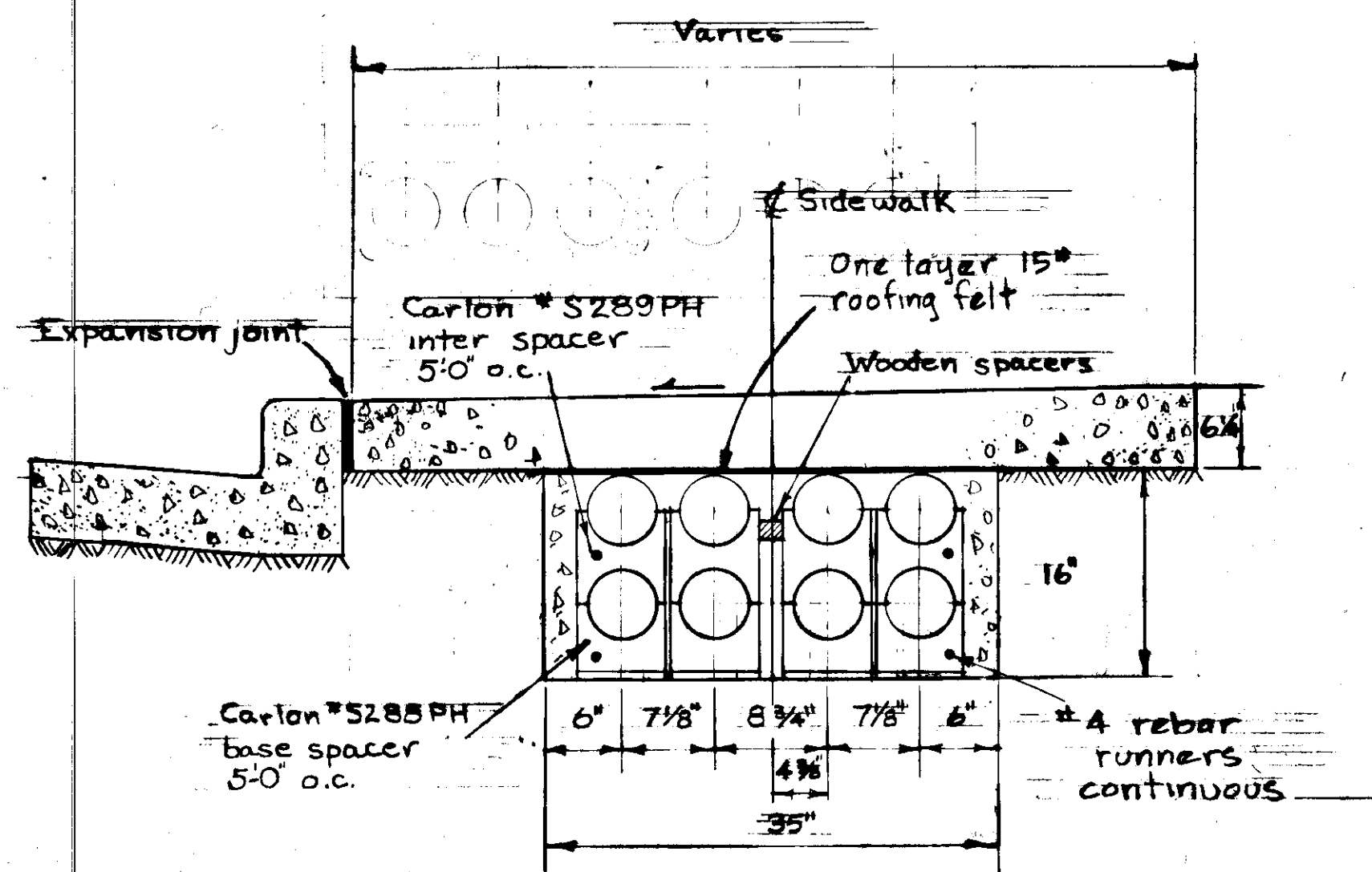
UTILWALK CONNECTION TYPE A TO TYPE C ON SECOND STREET

1/2" = 1'-0"



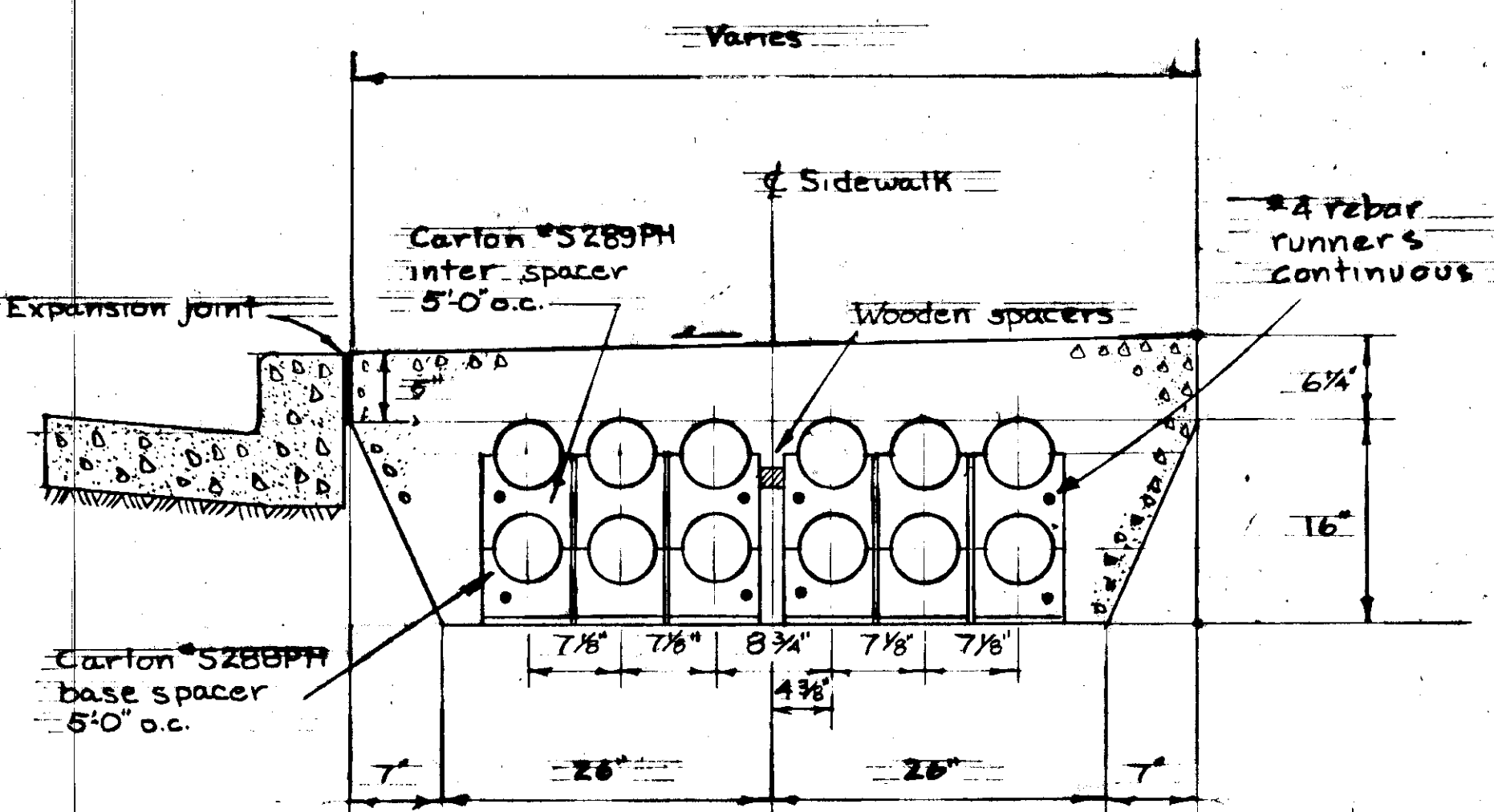
E-39

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-1(4)	1973	69	



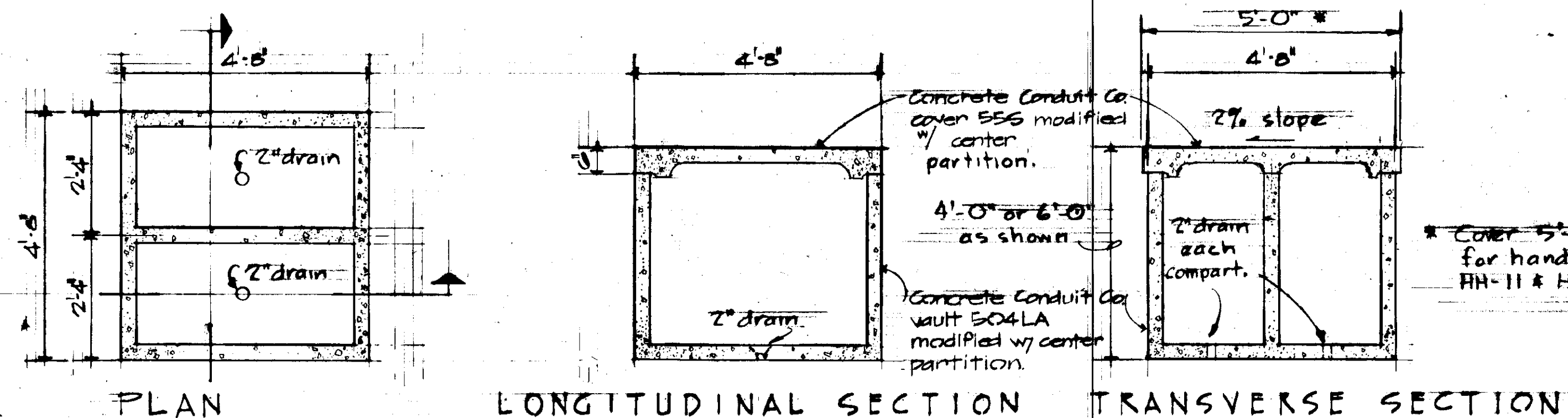
TYPICAL CONDUIT ENCLOSURE
UNDER SIDEWALK

1" = 1'-0"



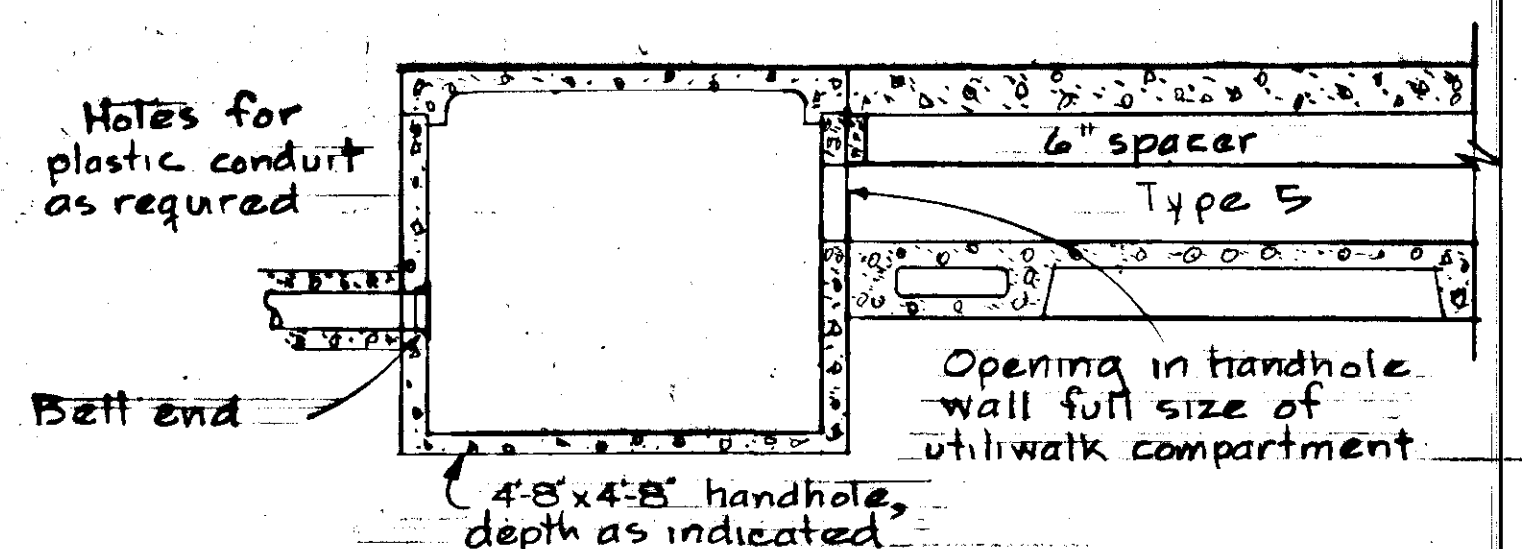
TYPICAL CONDUIT ENCLOSURE
IN SIDEWALK

1" = 1'-0"



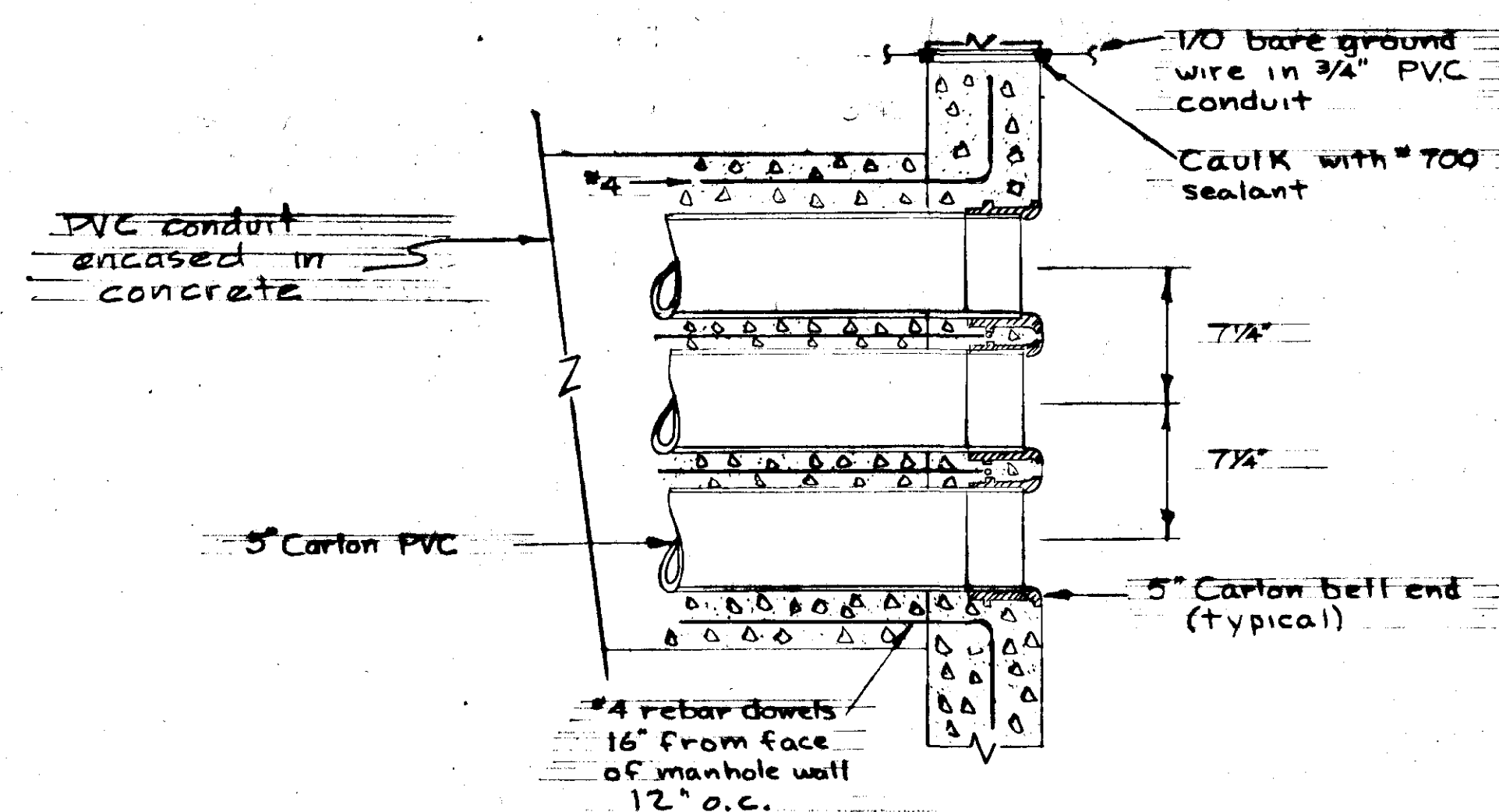
DETAIL - TYPICAL HANDHOLE

1/2" = 1'-0"



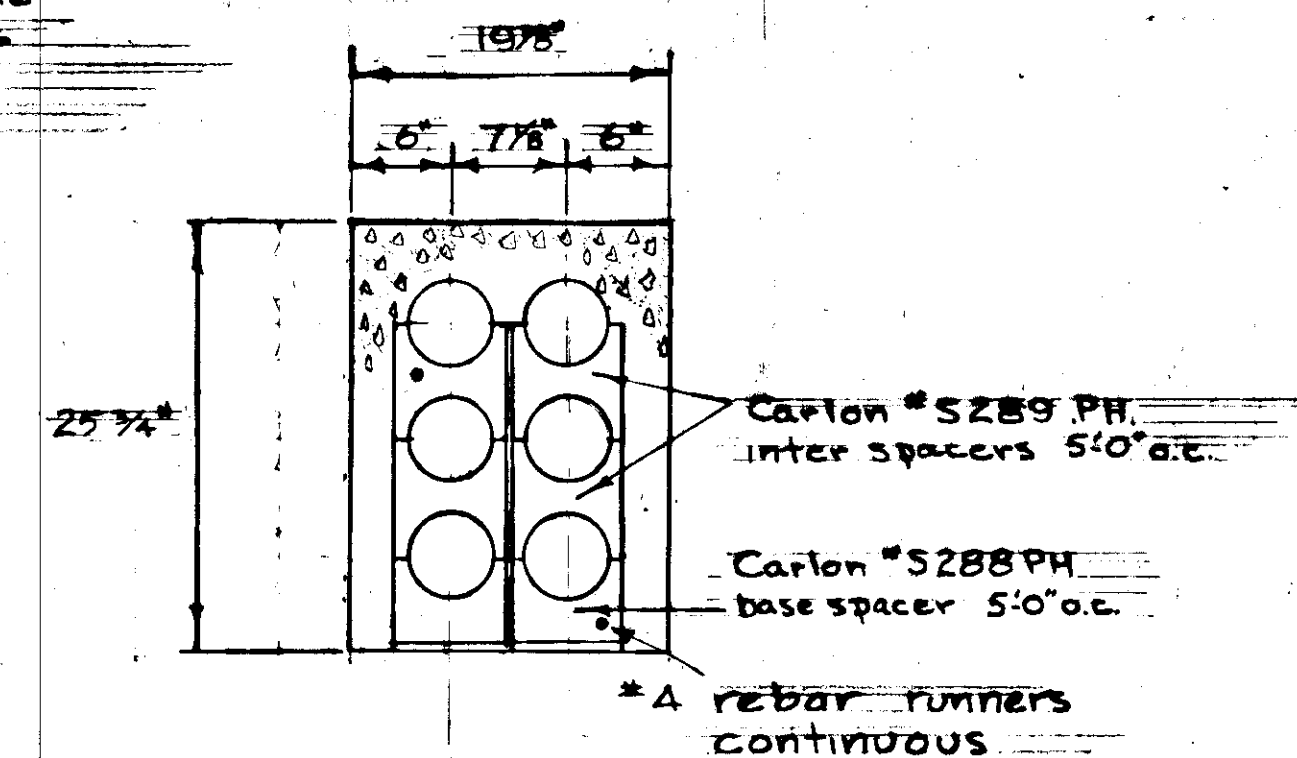
TYPICAL UTILWALK CONNECTION
TO HANDHOLE

1/2" = 1'-0"



TYPICAL DUCT ENCLOSURE
CONNECTION AT MANHOLE

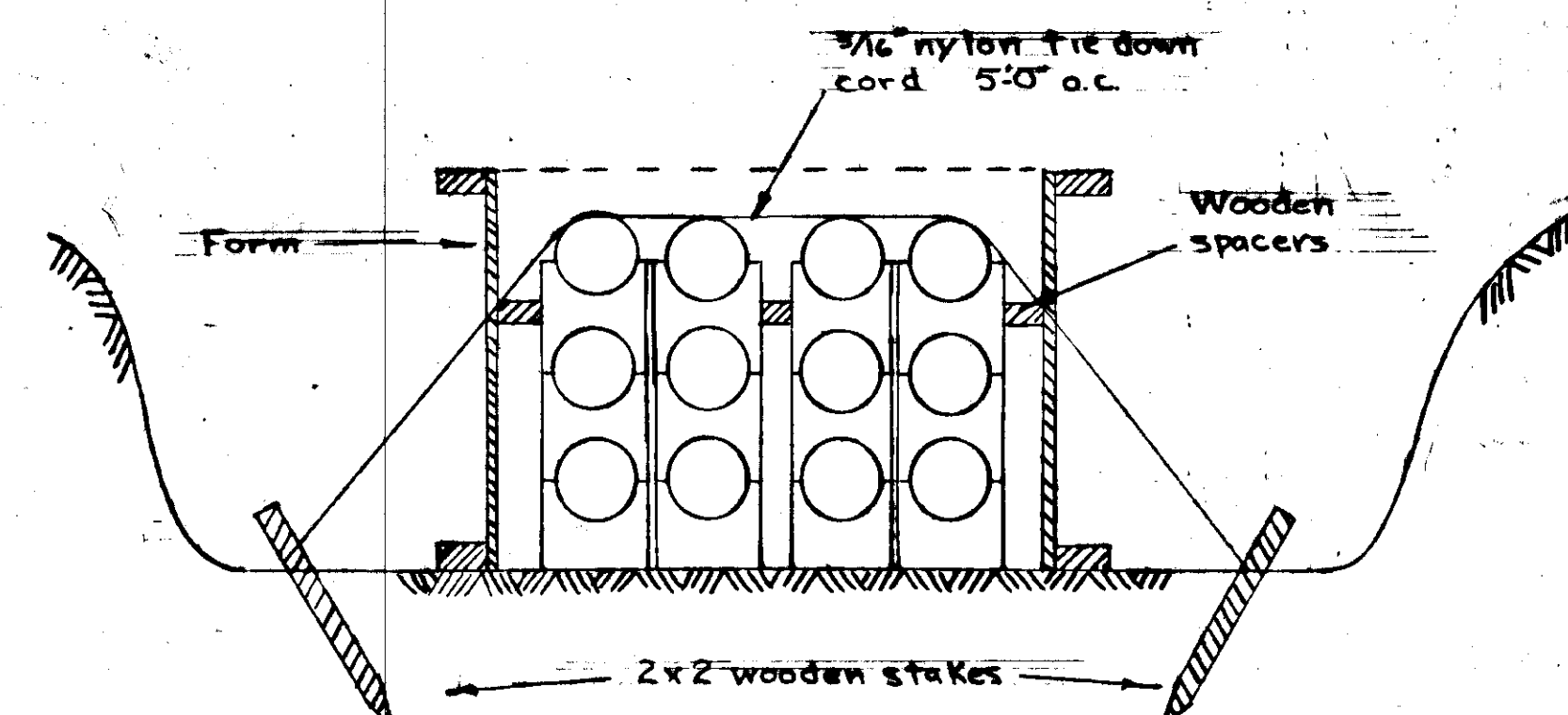
1 1/2" = 1'-0"



TYPICAL DUCT
CONCRETE ENCLOSURES

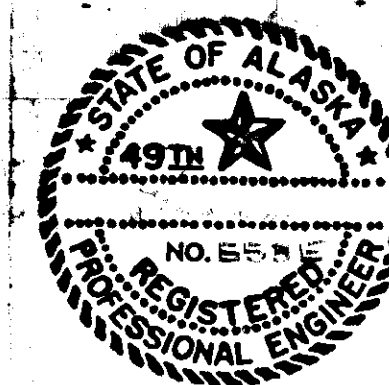
1" = 1'-0"

Other arrangements similar

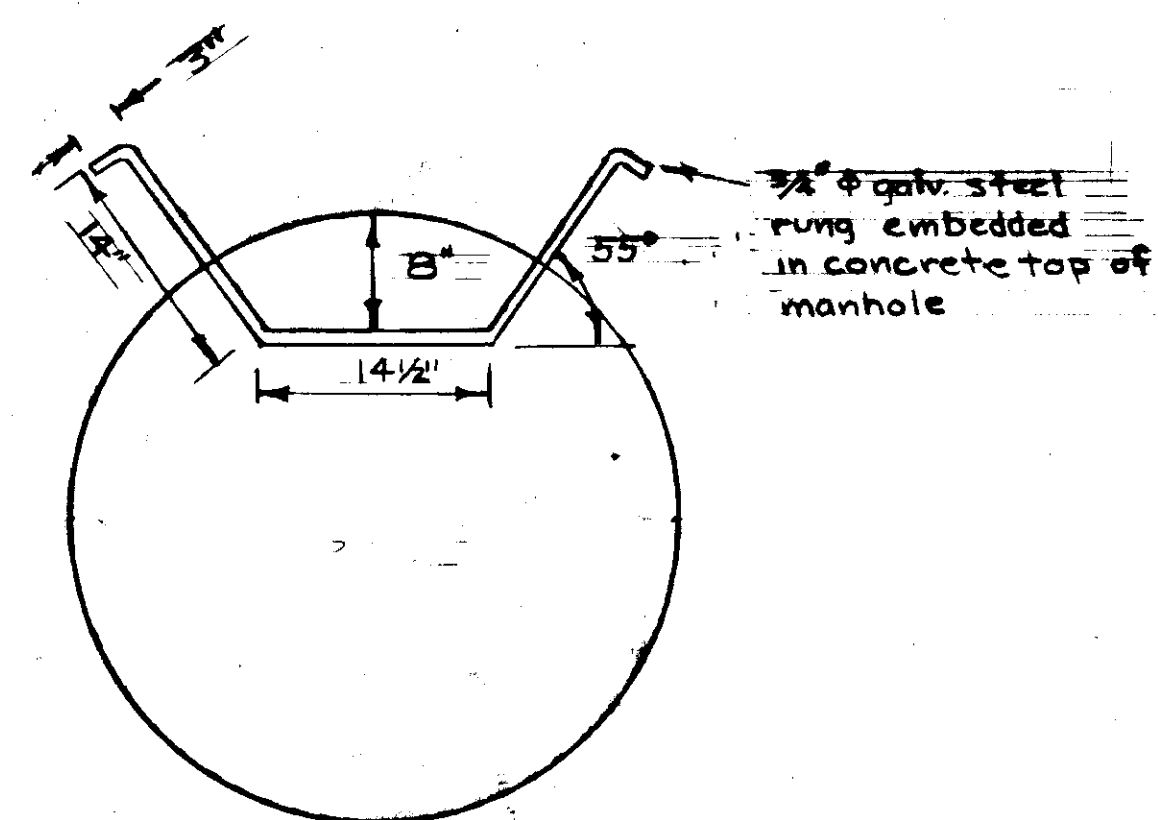


TYPICAL DUCT
TIEDOWN DETAIL

1" = 1'-0"

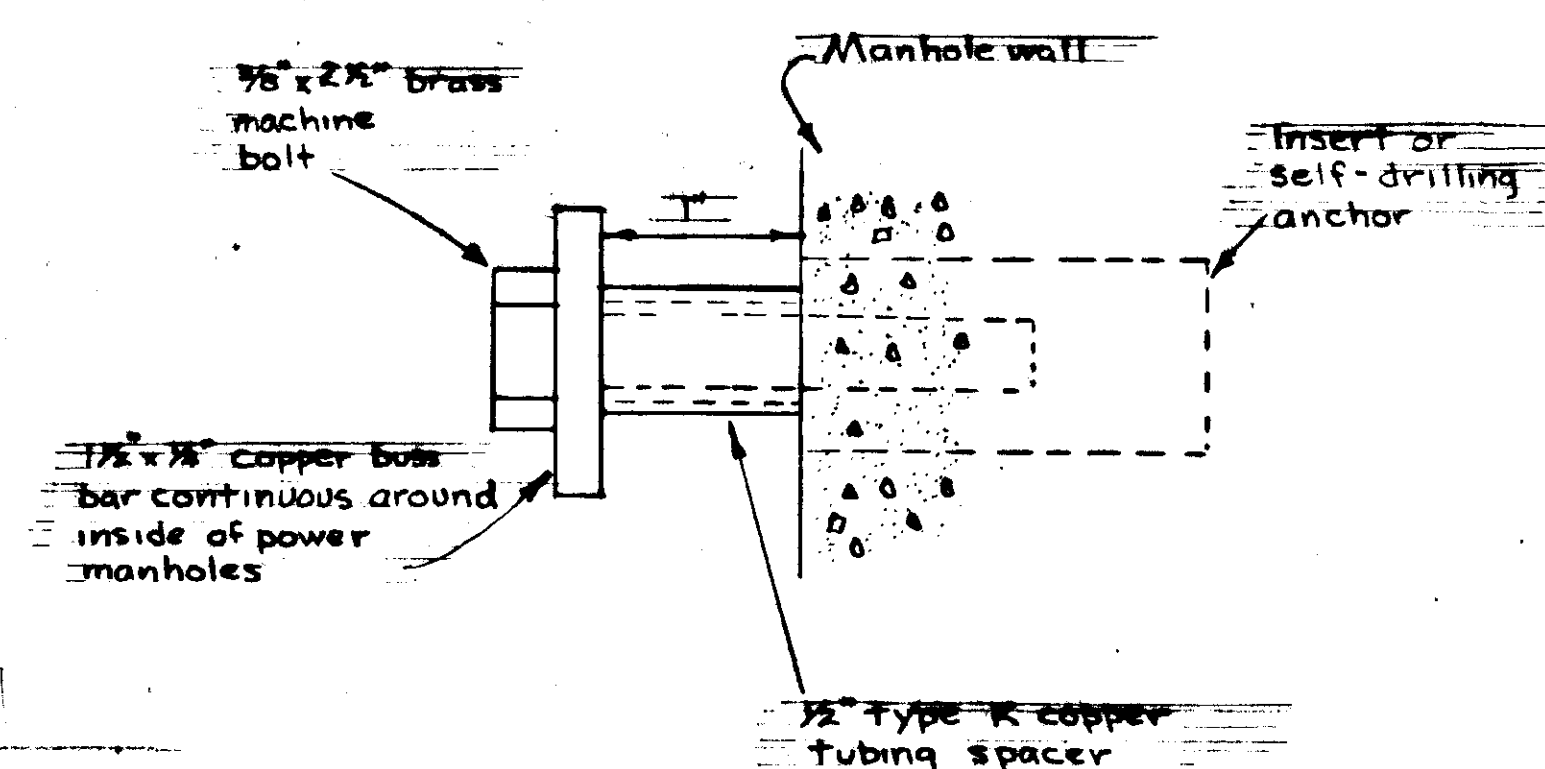


E-40



RUNG IN MANHOLE TOP

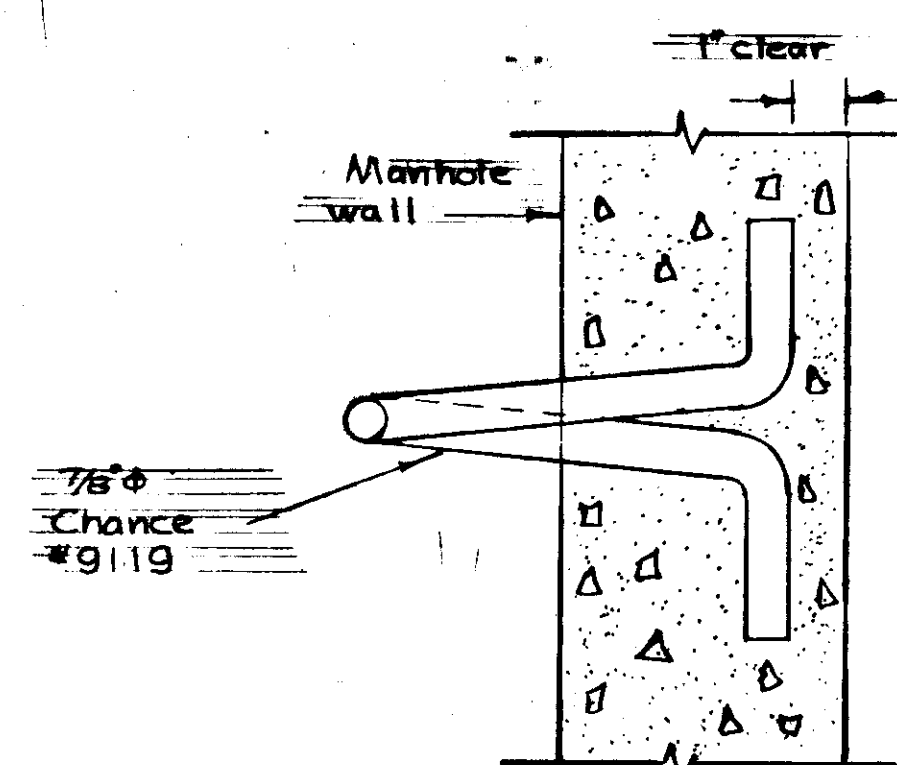
1" = 1'-0"



GROUND BUSS BAR SUPPORT

1" = 1'-0"

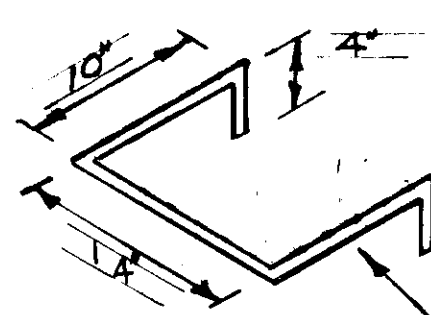
Supports located 24" o.c. maximum and 6" from each corner.



PULLING IRON DETAIL

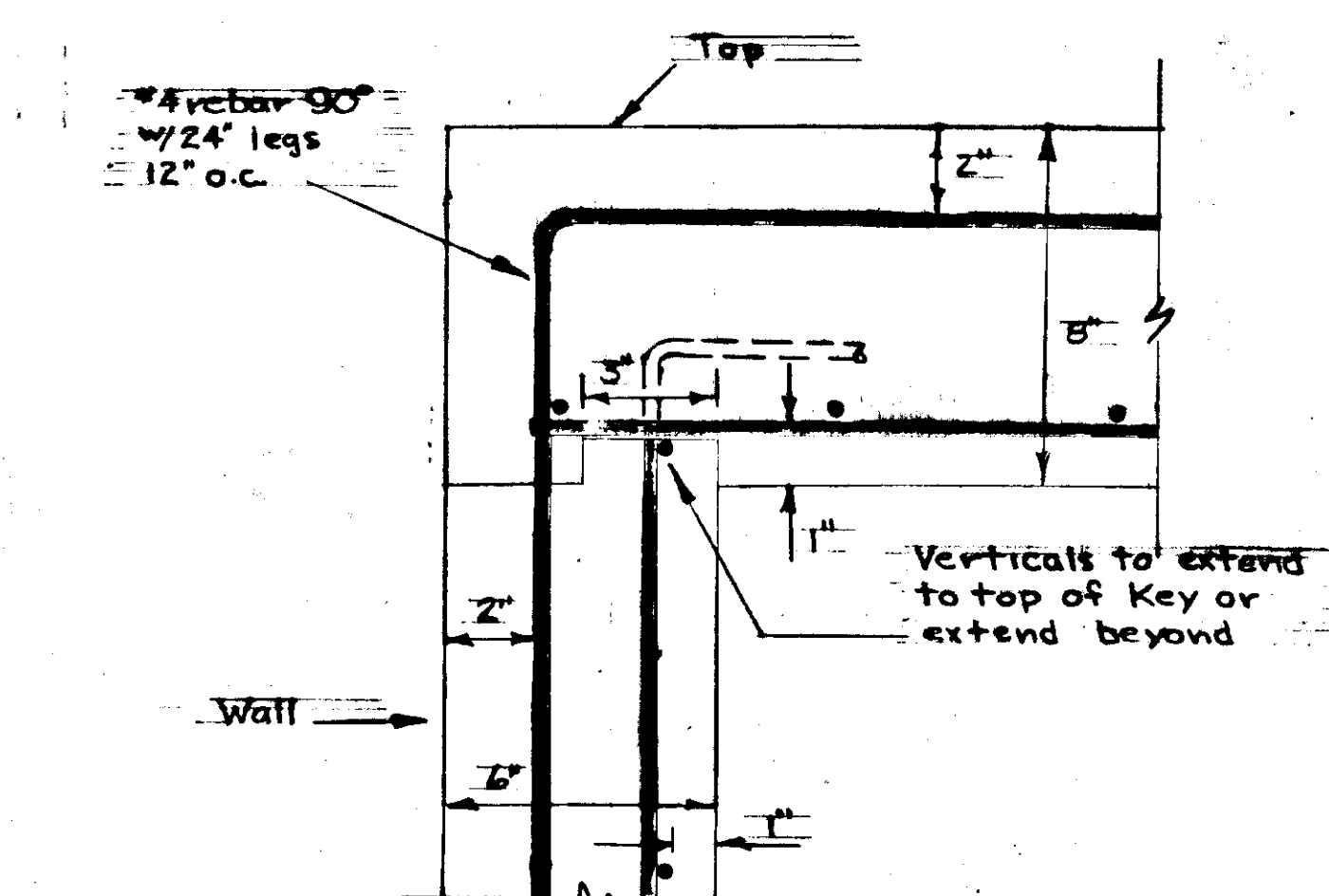
3" = 1'-0"

Putting irons in precast concrete units. 1/8" U-bolt through 1" dia. drilled holes in wall w/ 16" x 8" x 1/2" thick plate on outside. All steel outside w/ 2 coats emulsified asphalt.



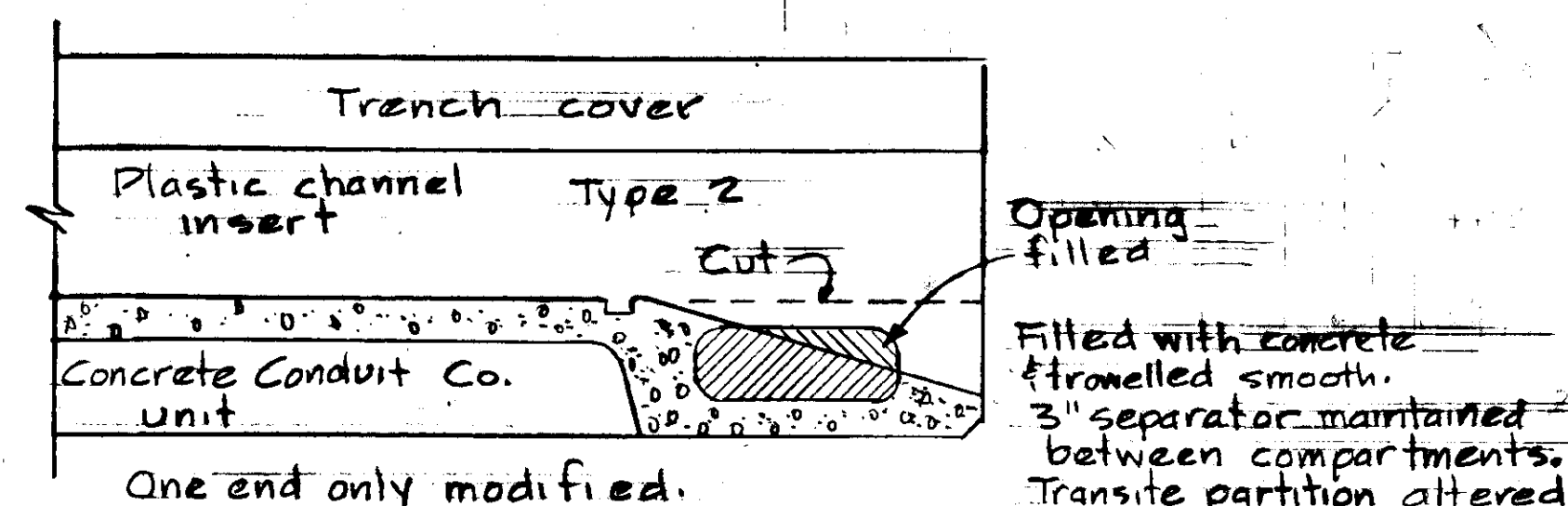
RUNG IN MANHOLE RISER

No Scale



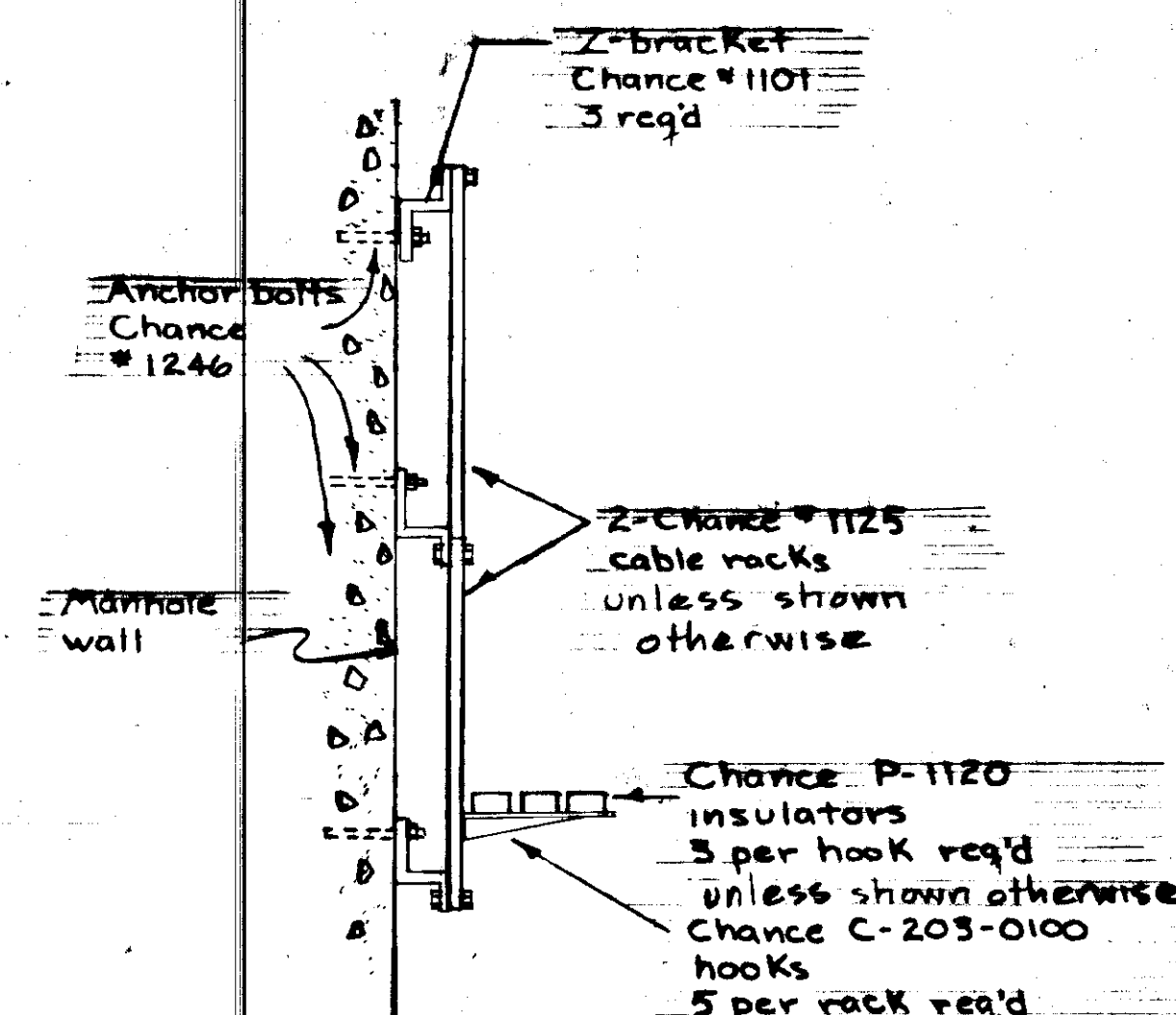
TYPICAL CONSTRUCTION JOINT IN MANHOLE

3" = 1'-0"



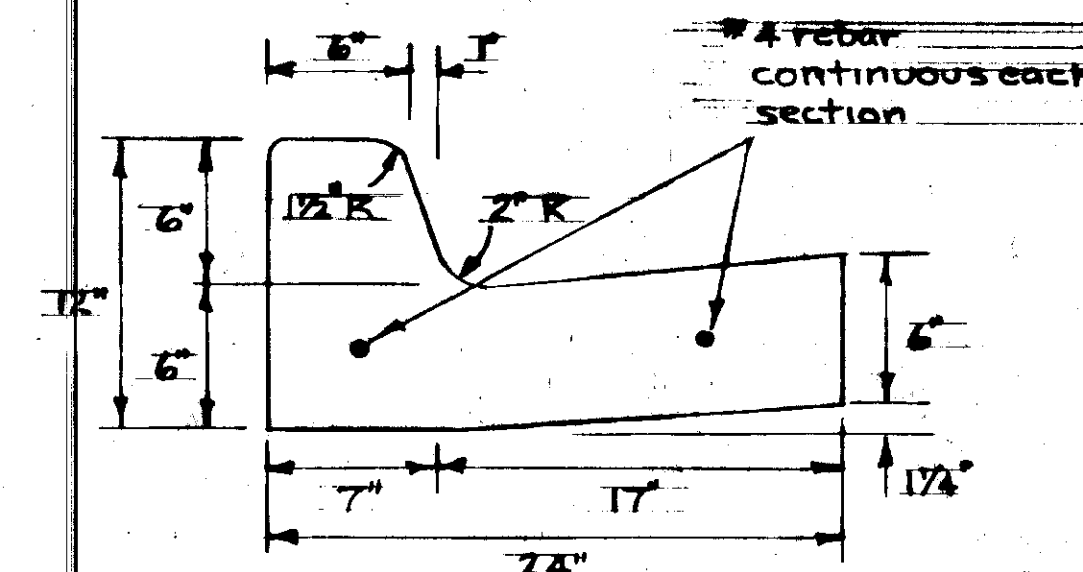
TYPE 2 UTILIWALK MODIFICATION

1" = 1'-0"



CABLE RACK DETAIL

1" = 1'-0"

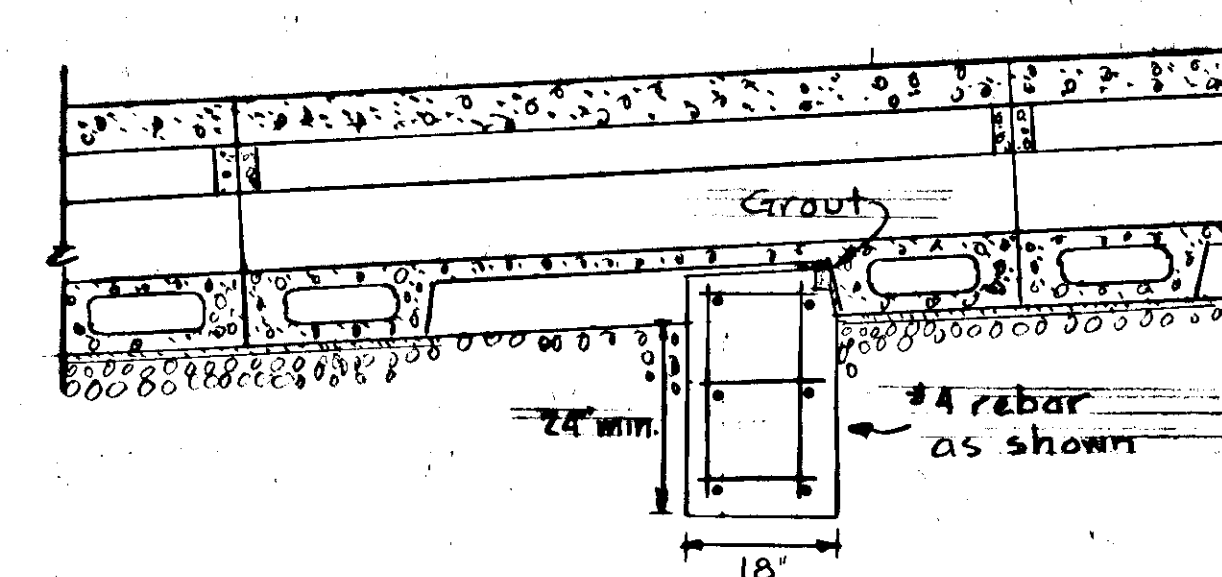


CURB SECTION DETAIL

1 1/2" = 1'-0"

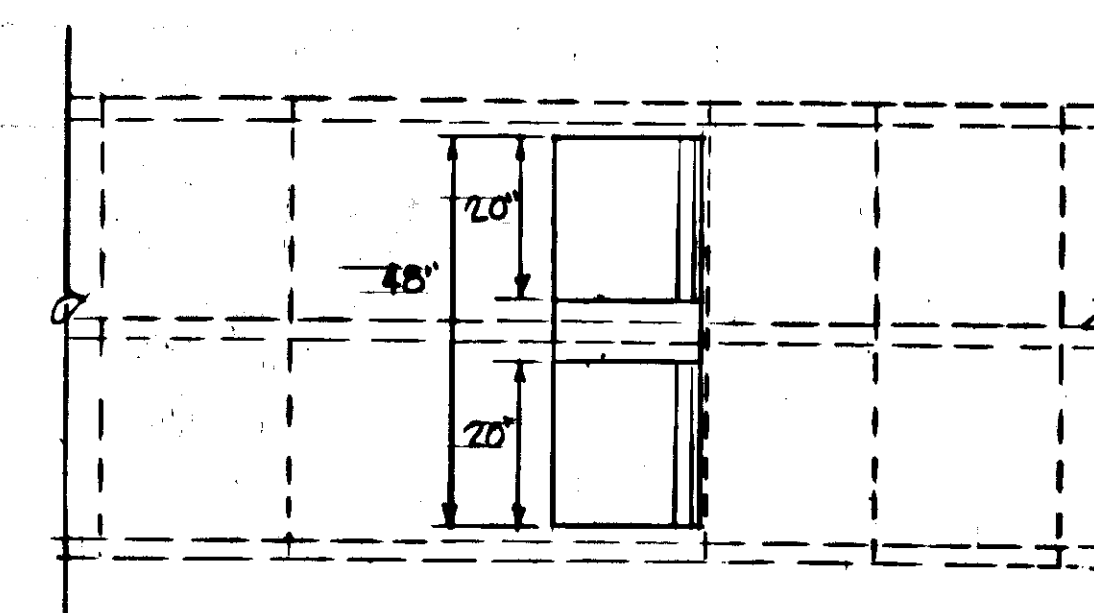
Expansion joints at maximum spacing of 50 ft.

PERMANENT ONLY



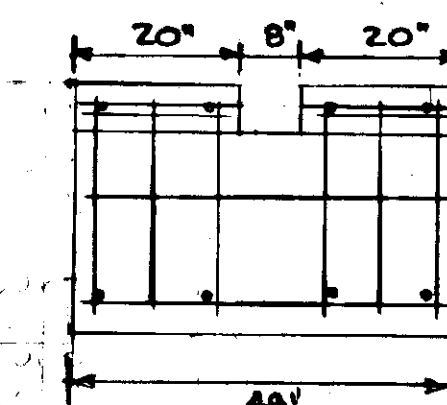
SECTION

1/2" = 1'-0"



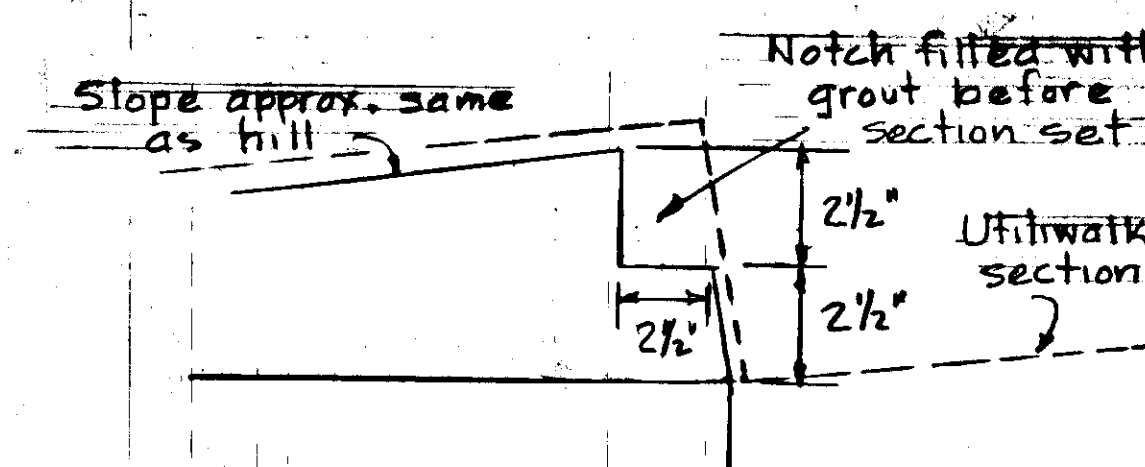
PLAN

1/2" = 1'-0"



FACE VIEW

1/2" = 1'-0"

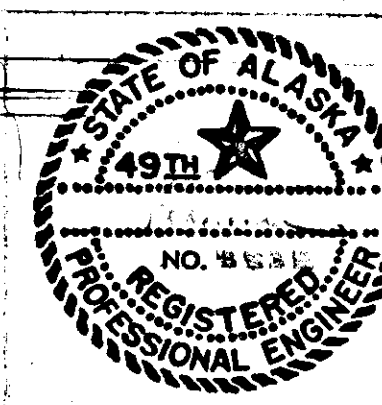


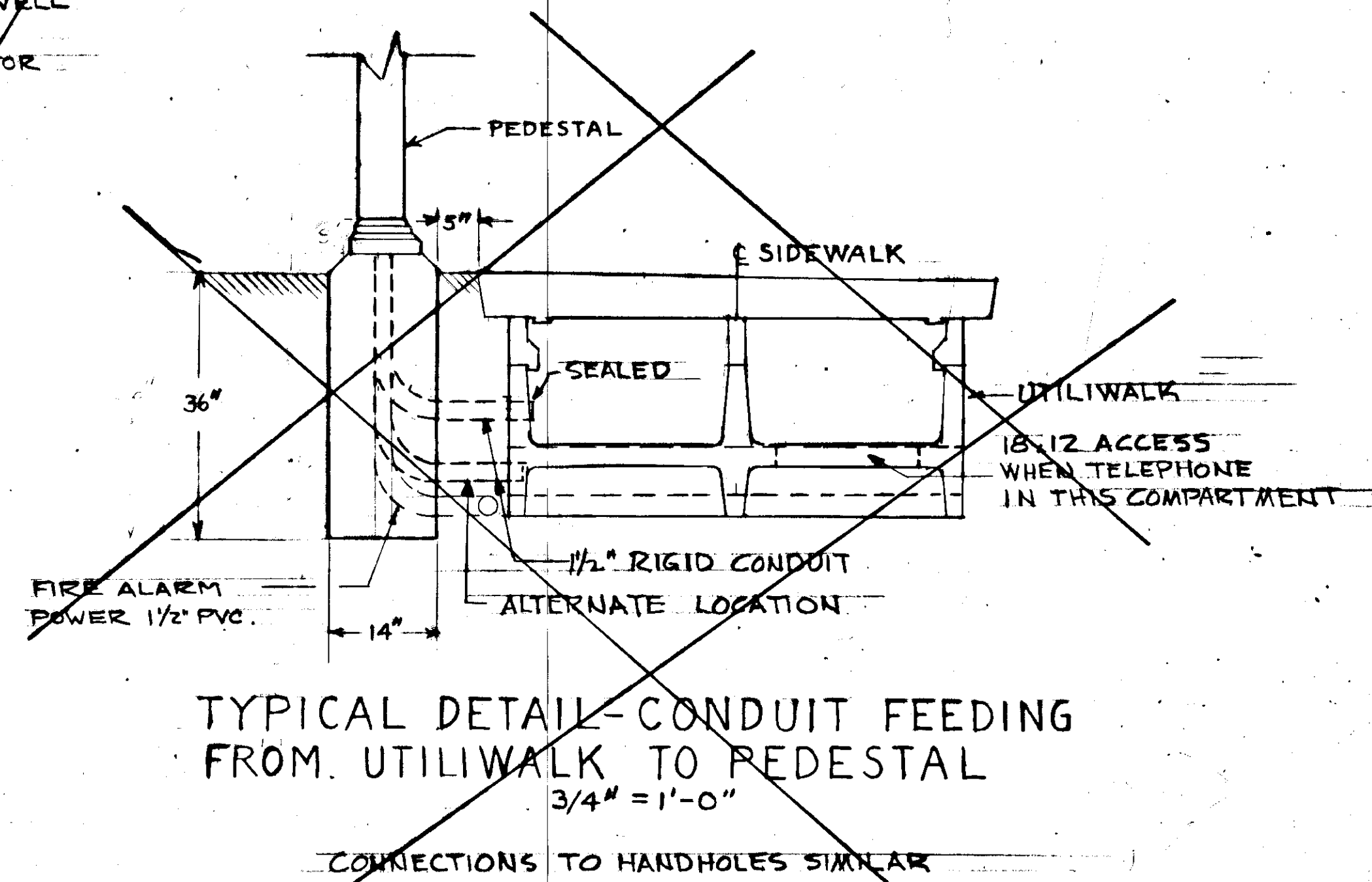
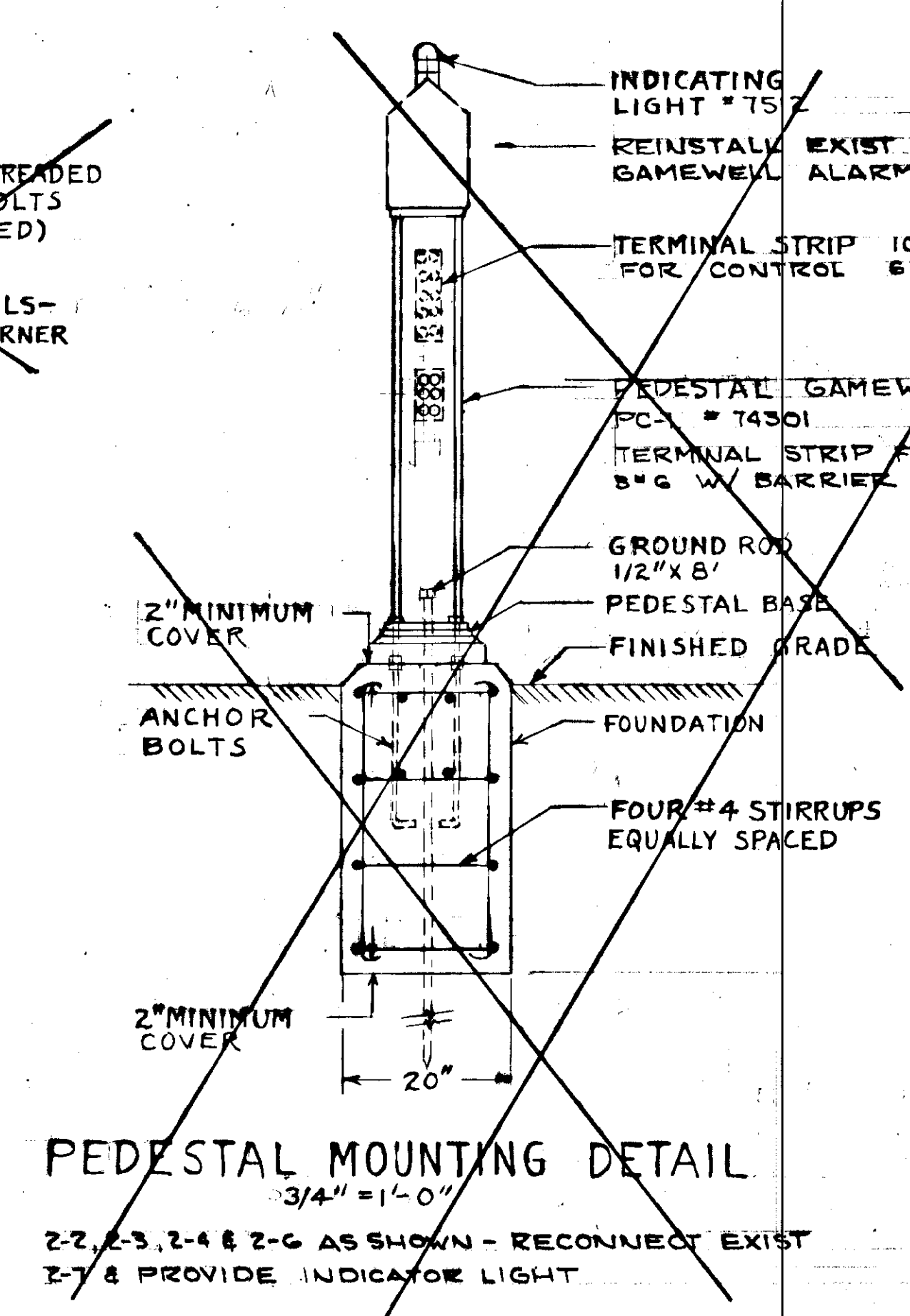
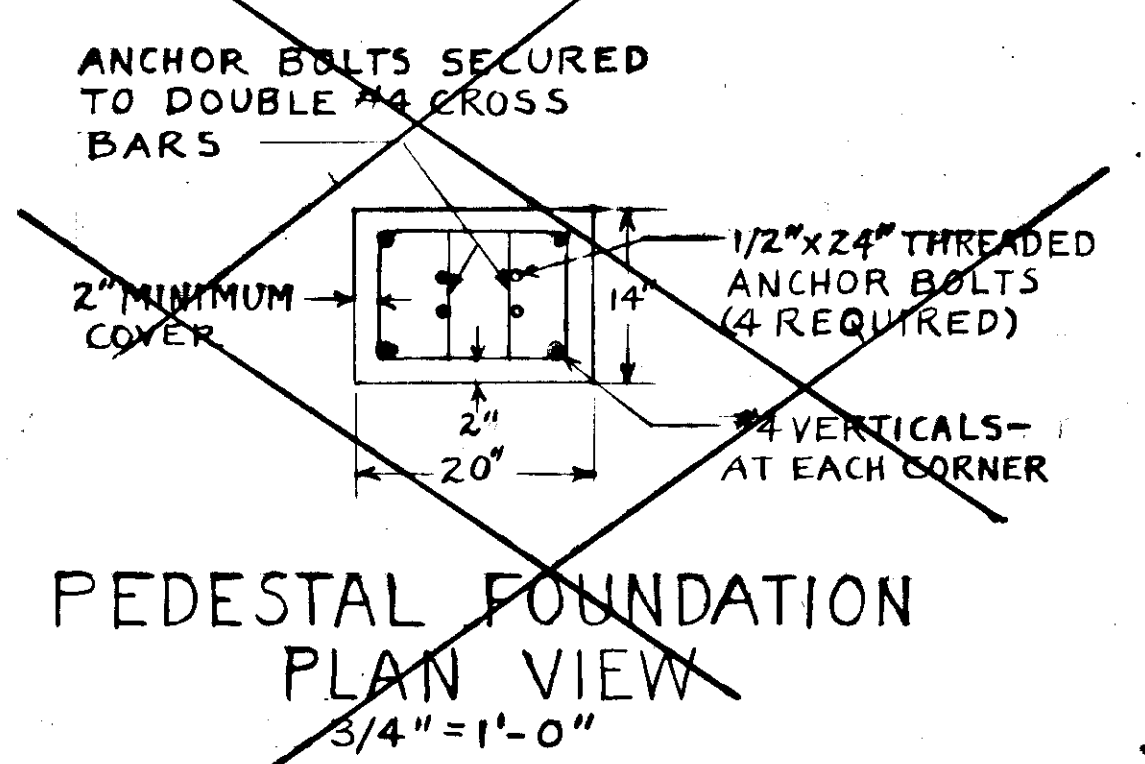
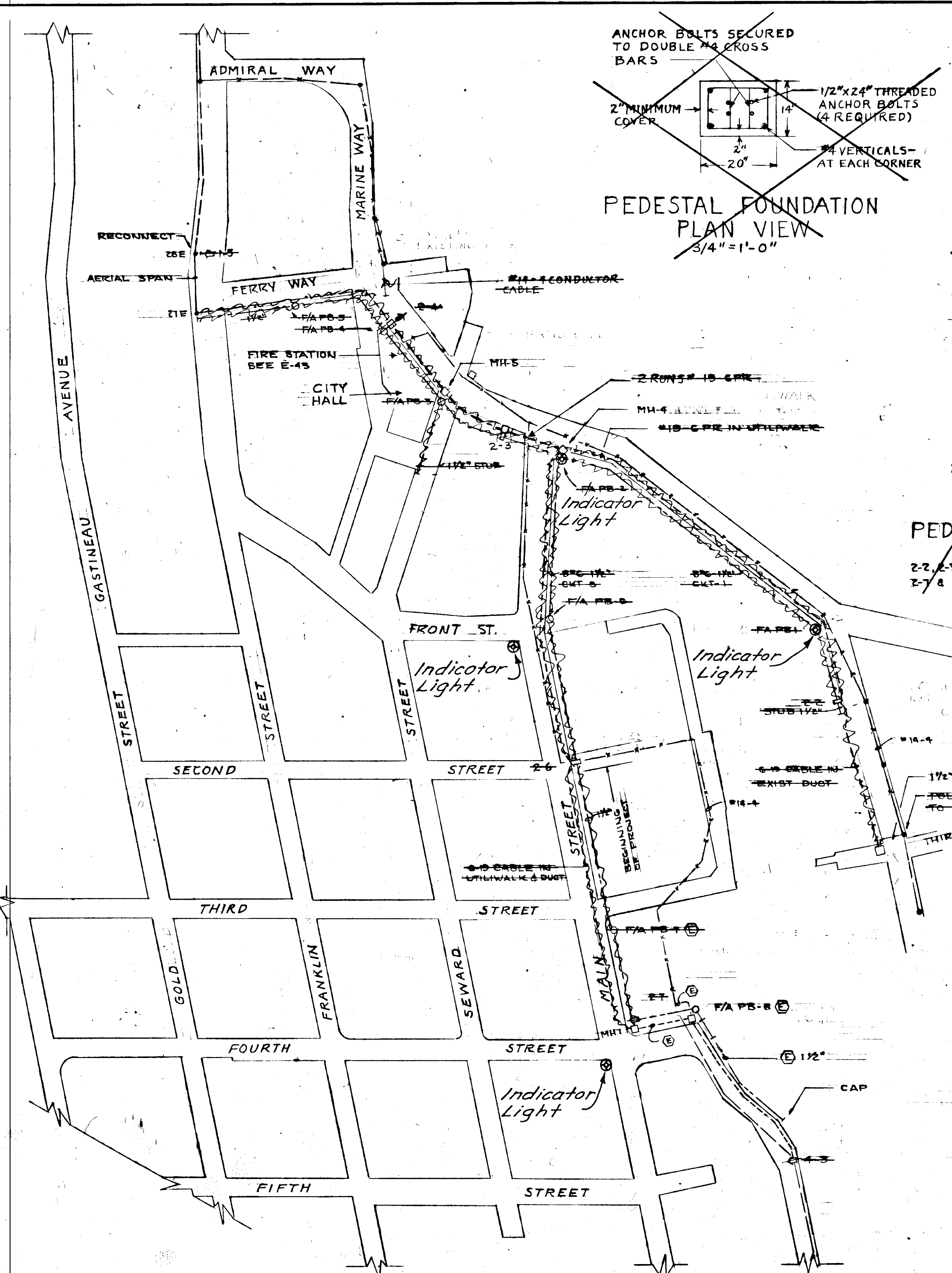
ANCHOR LIP DETAIL

No Scale

UTILIWALK SECTION ANCHOR ON HILLS

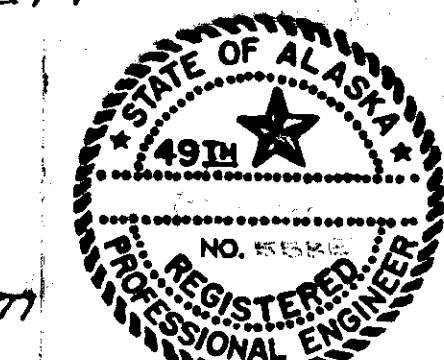
Scale as shown



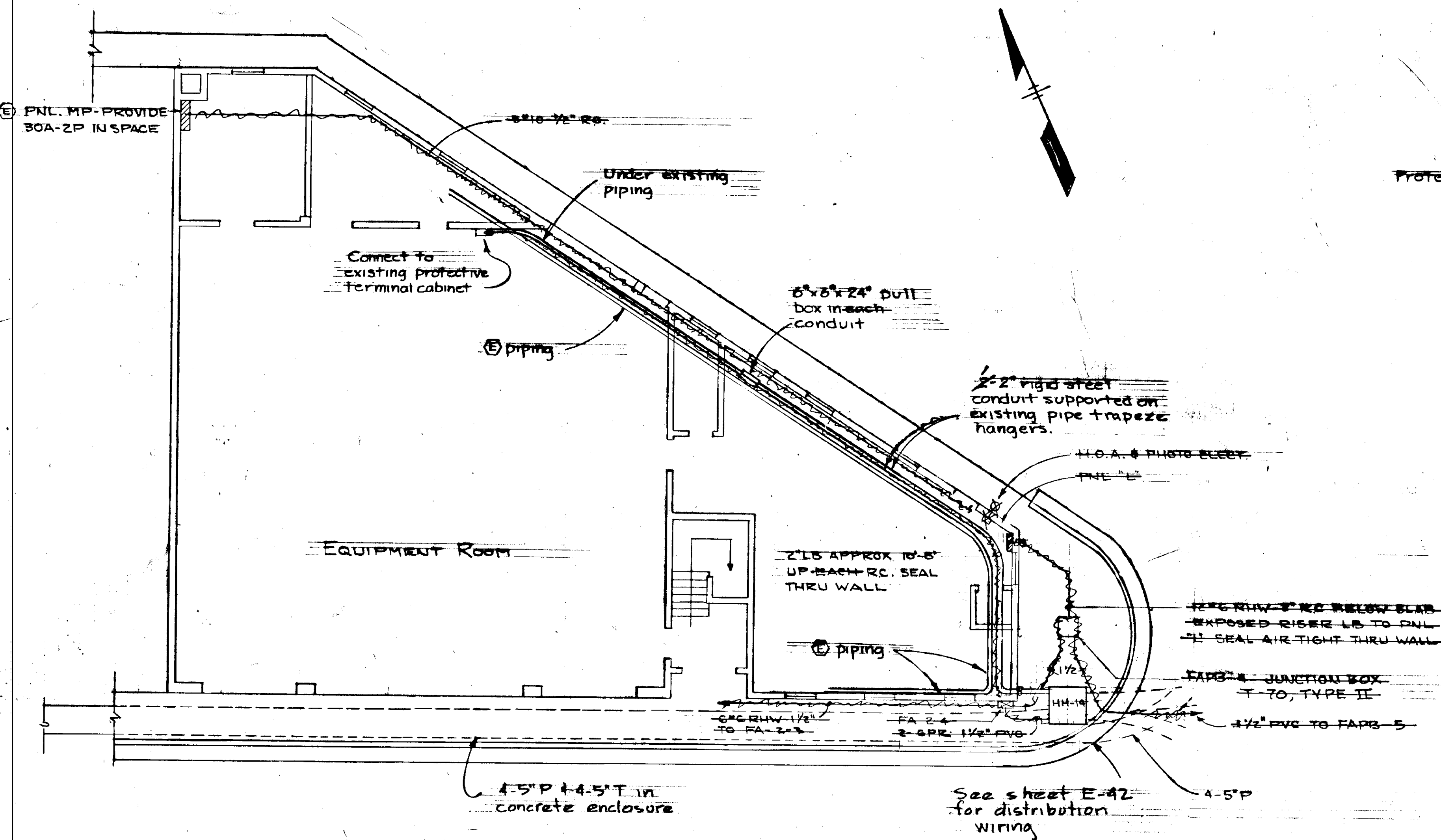


- LEGEND**
- EXIST OVERHEAD
 - NEW
 - - - EXIST " REMOVED
 - - - NEW GPR-15AWG TEL-CU IN DUCT OR UTILIWALK
 - - - FIRE ALARM POWER 120/240V 1Ø
 - FIRE ALARM PEDESTAL & BOX
 - MANHOLE OR HANDHOLE
 - FIRE ALARM POWER JUNCTION BOX 1-TO-TYPE 1
 - ⊙ Indicator Light
- NOTES**
1. ALL WORK PER NEC & NFPA-72 (MUNICIPAL FIRE ALARM SYSTEM) & GAMEWELL INSTRUCTIONS
 2. EXTEND #8 GROUND FROM ROB TO PEDESTAL, NEUTRAL & SYSTEM GROUND
 3. AT POLES 15E & 21E PROVIDE COOK PLX-452-1311 (WITH ARRESTER)
 4. NEW OR END OF AERIAL WITH DEAD END CLEVIS
 5. AERIAL SPAN (21E TO 28E) NEW OR FROM SALVAGE CONTRACTOR'S OPTION
 6. VERIFY PEDESTAL SIZE DIMENSIONS FROM GAMEWELL

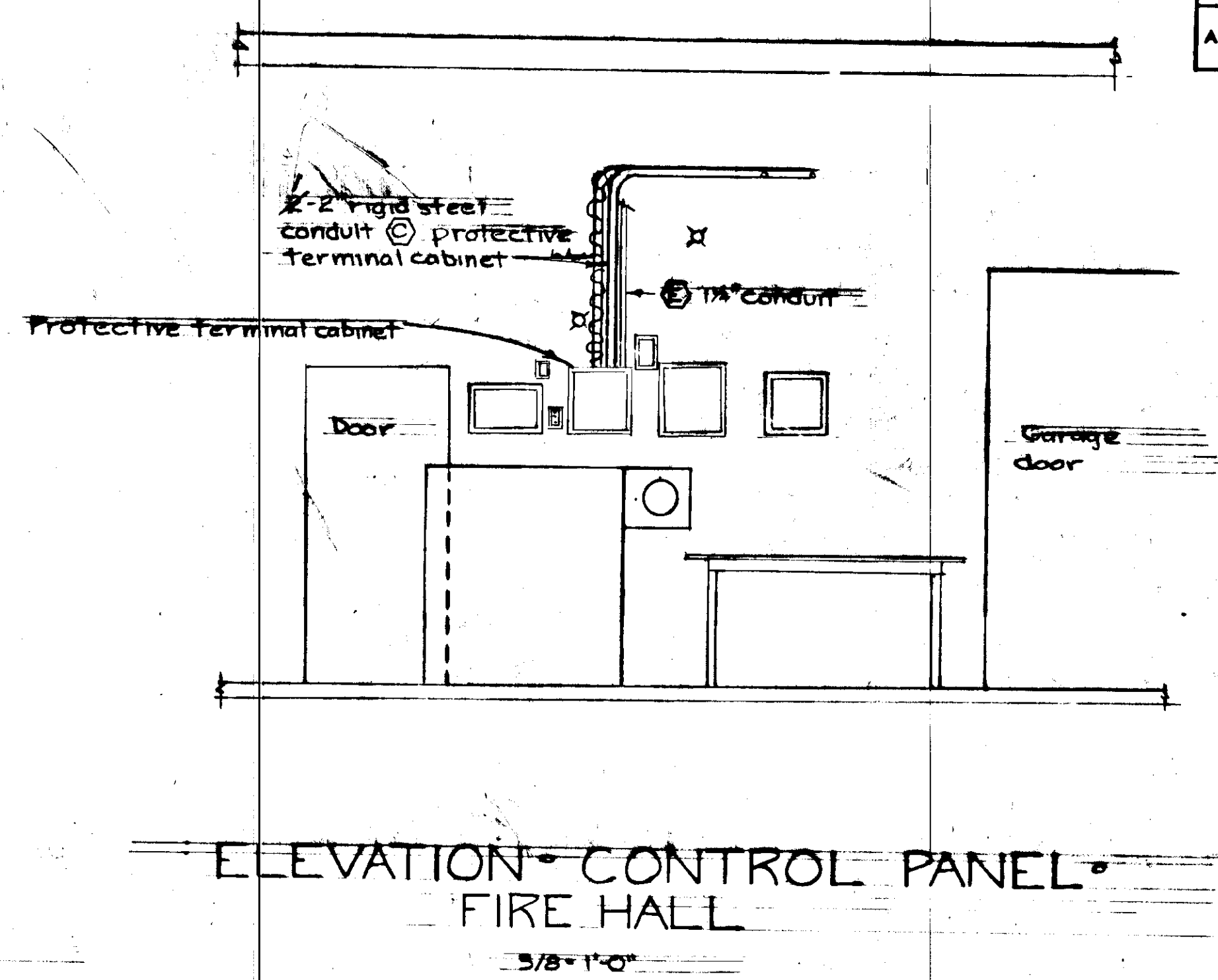
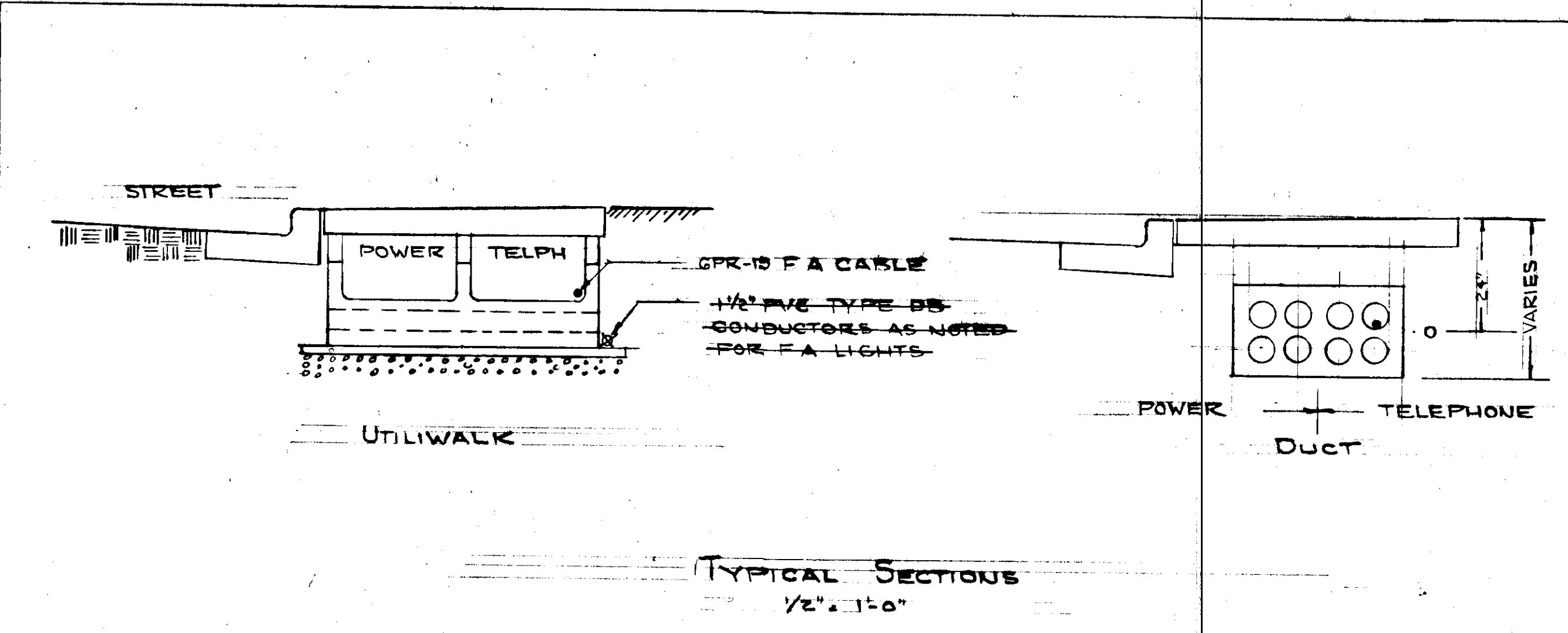
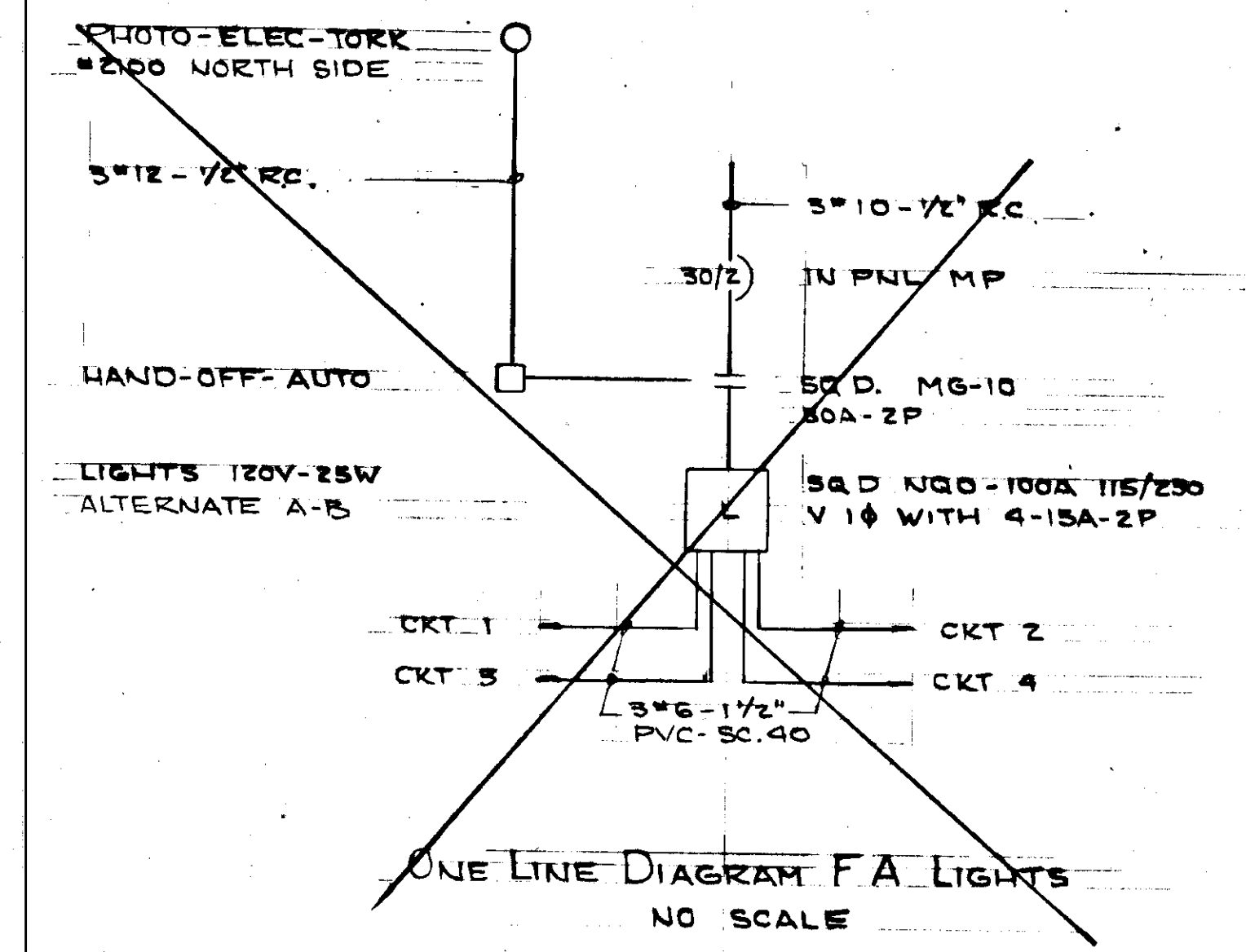
Install, (Crouse-Hinds #V1759 Indicator Light w/Guard, Red Reflector, & 240 Volt, 50 Watt Globe) on Following Luminaire Poles:
At Locations - Sta. "0"78+64 35' Lt.
Sta. "E"13+56 28' Rt.
Sta. "E"20+50 17' Rt.
Sta. "0"73+45 65' Lt.
And Circuit w/ Luminaire Power System



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOT SHE
ALASKA	F-093-1(4)	1973	72	



PART PLAN FIRE HALL
1/8" = 1'-0"



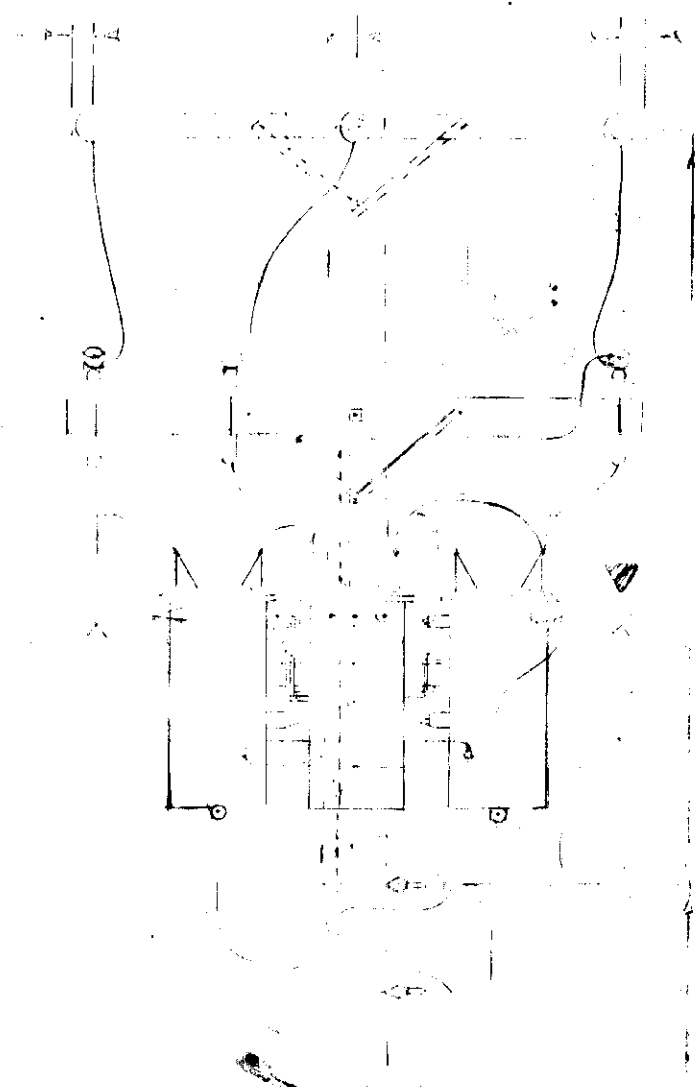
FIRE ALARM SYSTEM

STATE OF ALASKA

49th

REGISTERED PROFESSIONAL ENGINEER

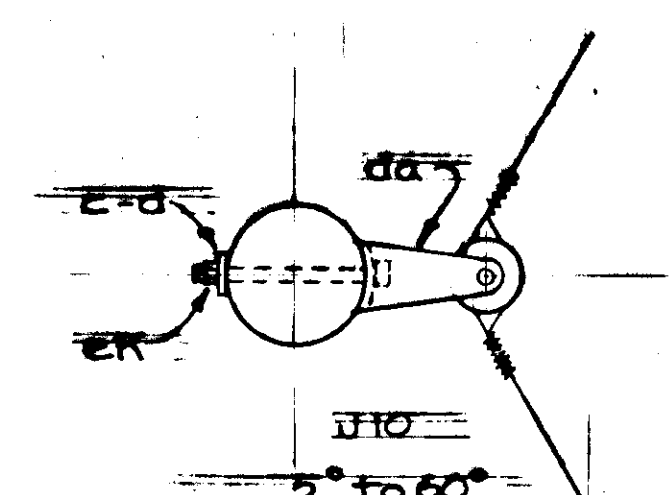
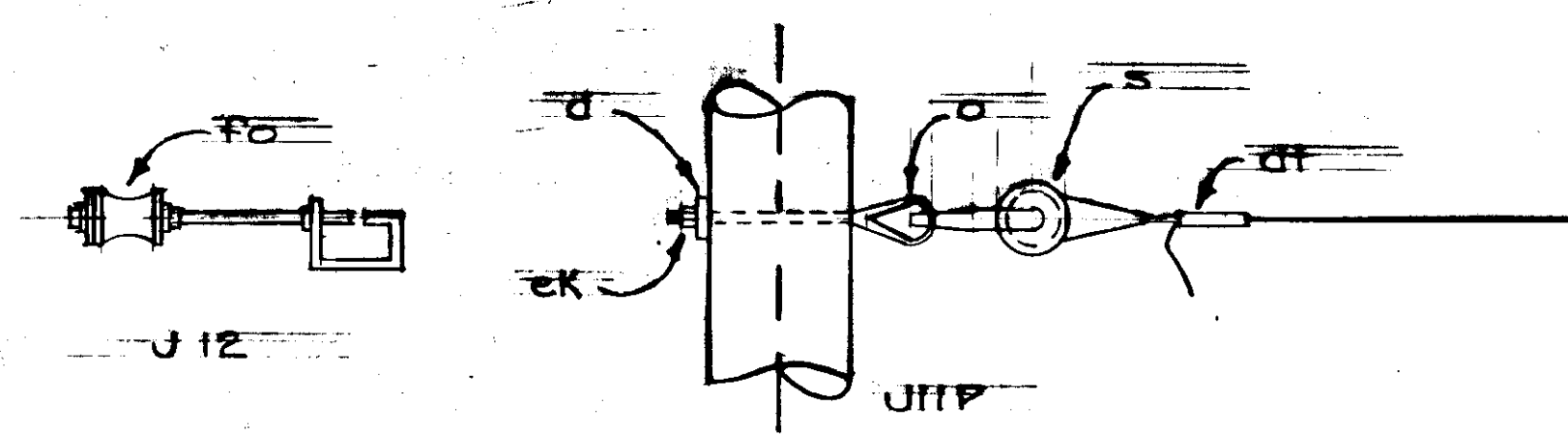
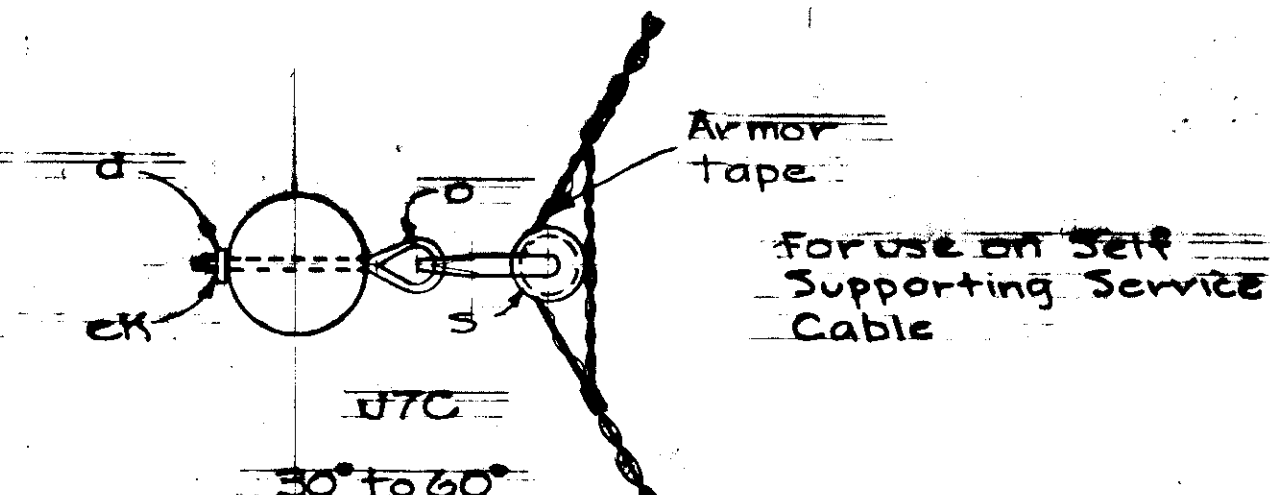
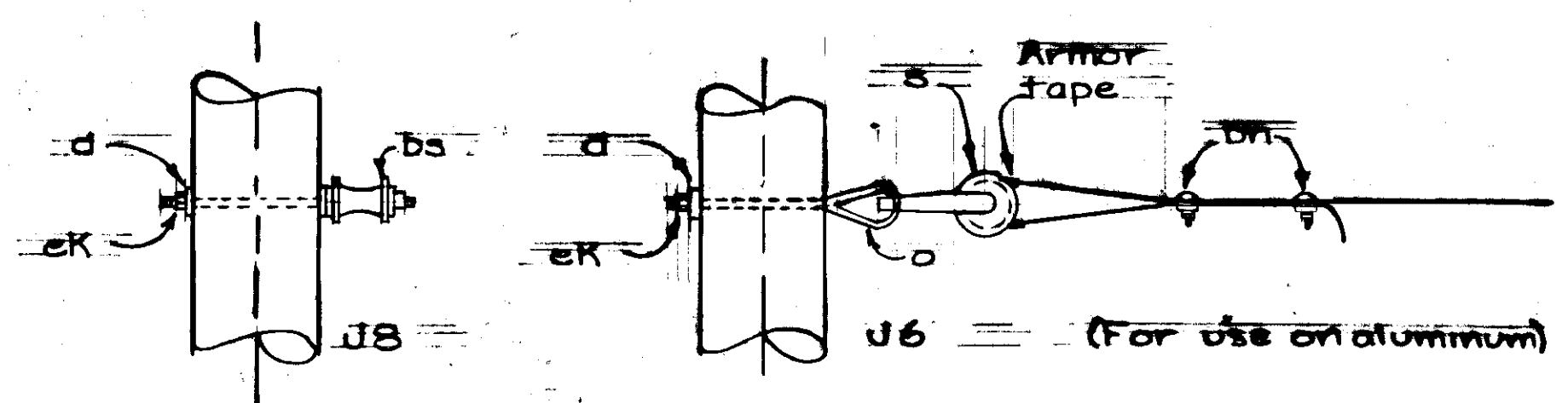
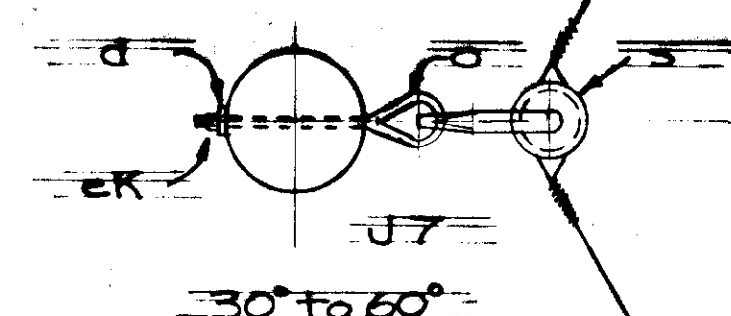
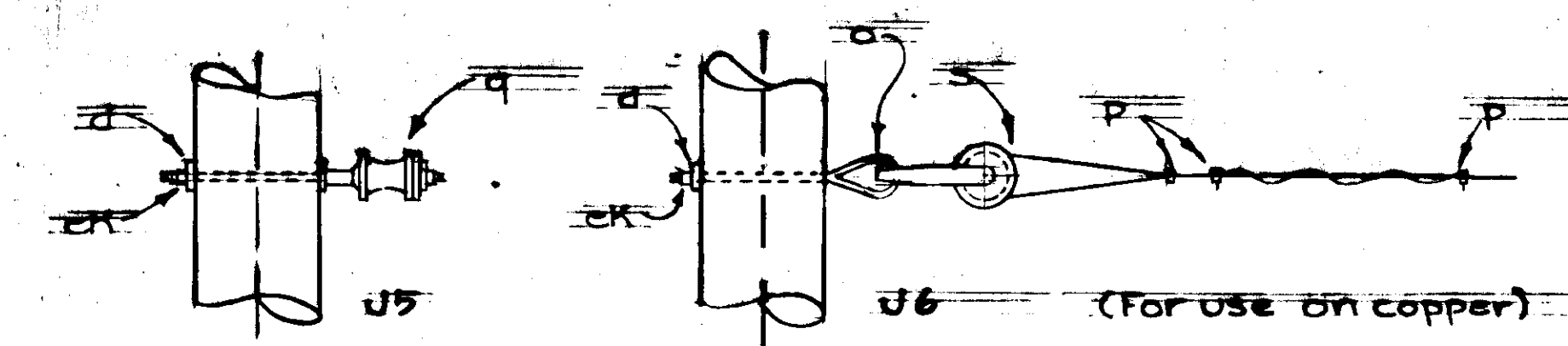
E-43



SECTION X-X

7/16\"/>

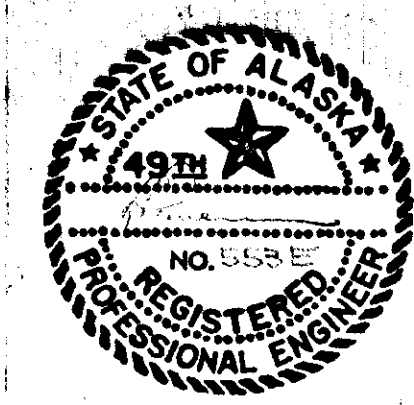
150



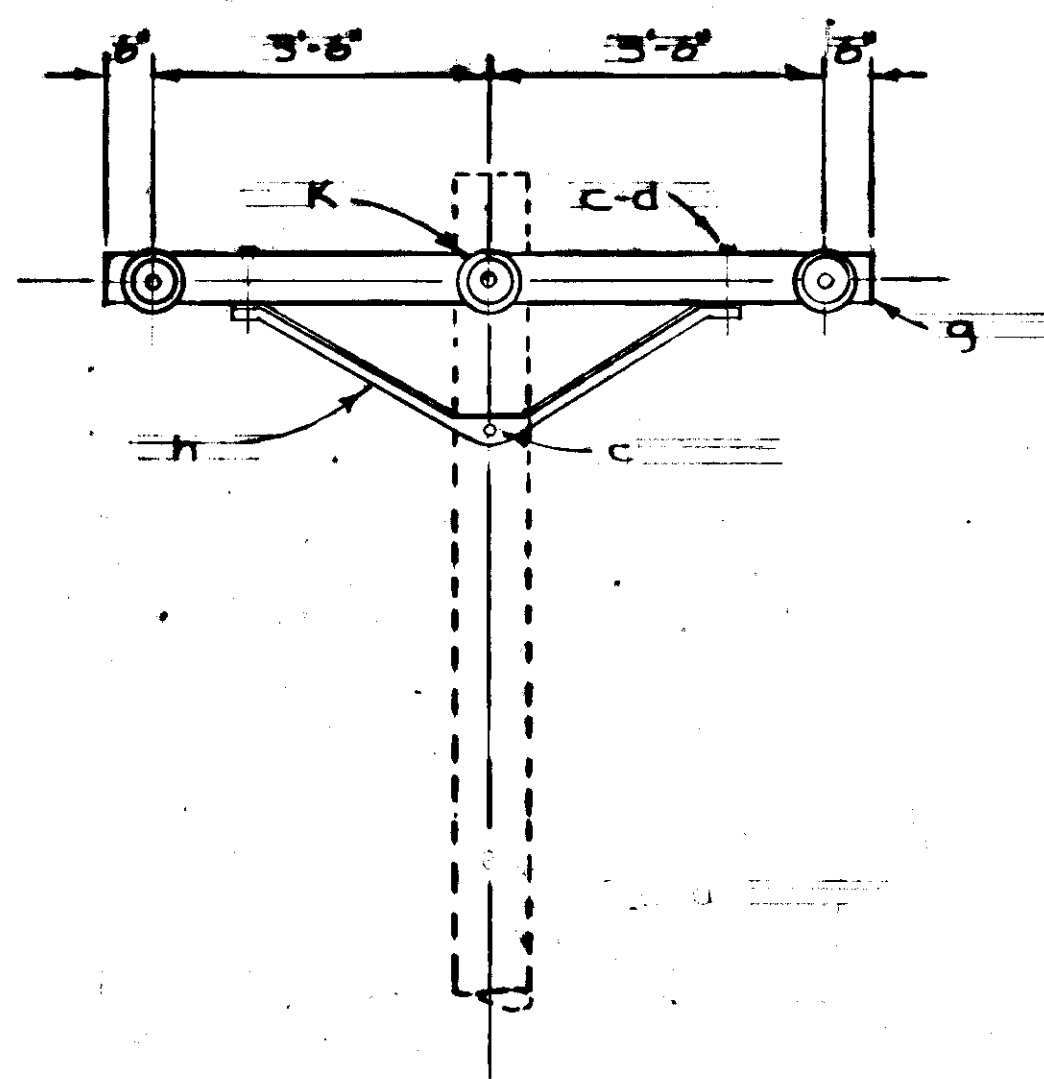
ITEM	NO.	MATERIAL
c		Bolt, machine, 5/8 x req'd lgth
d		Washer, 2 1/4\"/>

SECONDARY ASSEMBLIES

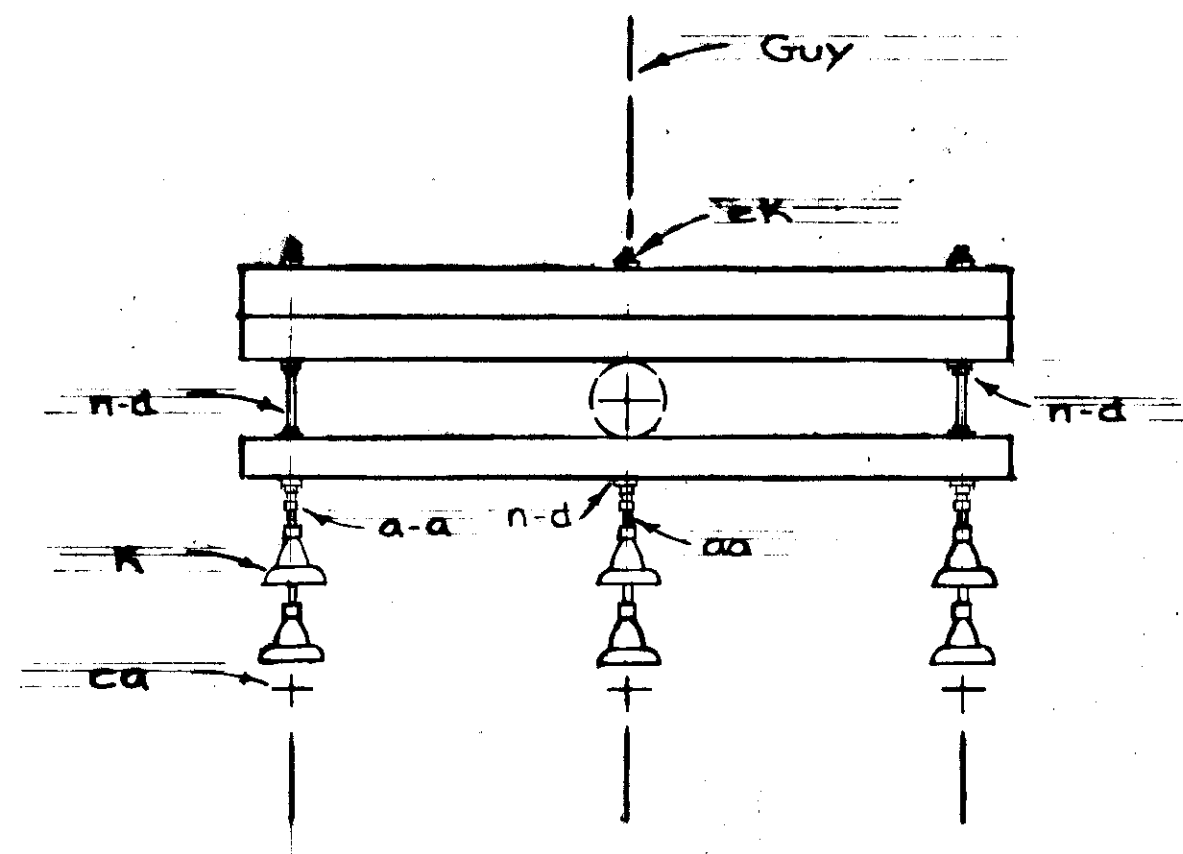
No Scale



E-44



ELEVATION

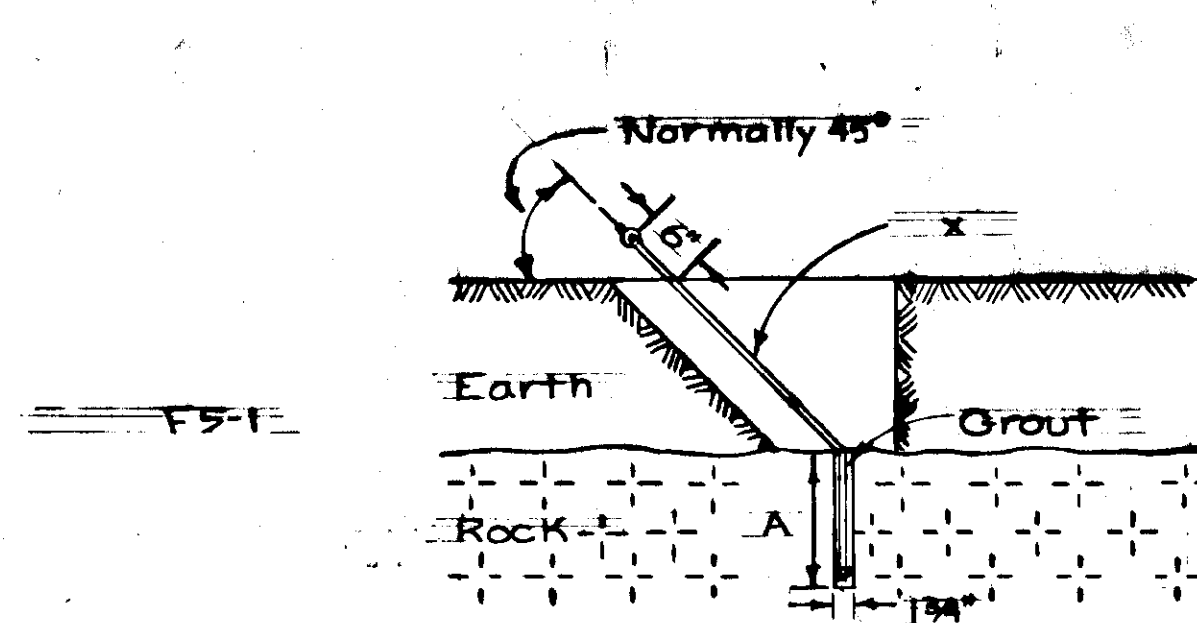


PLAN

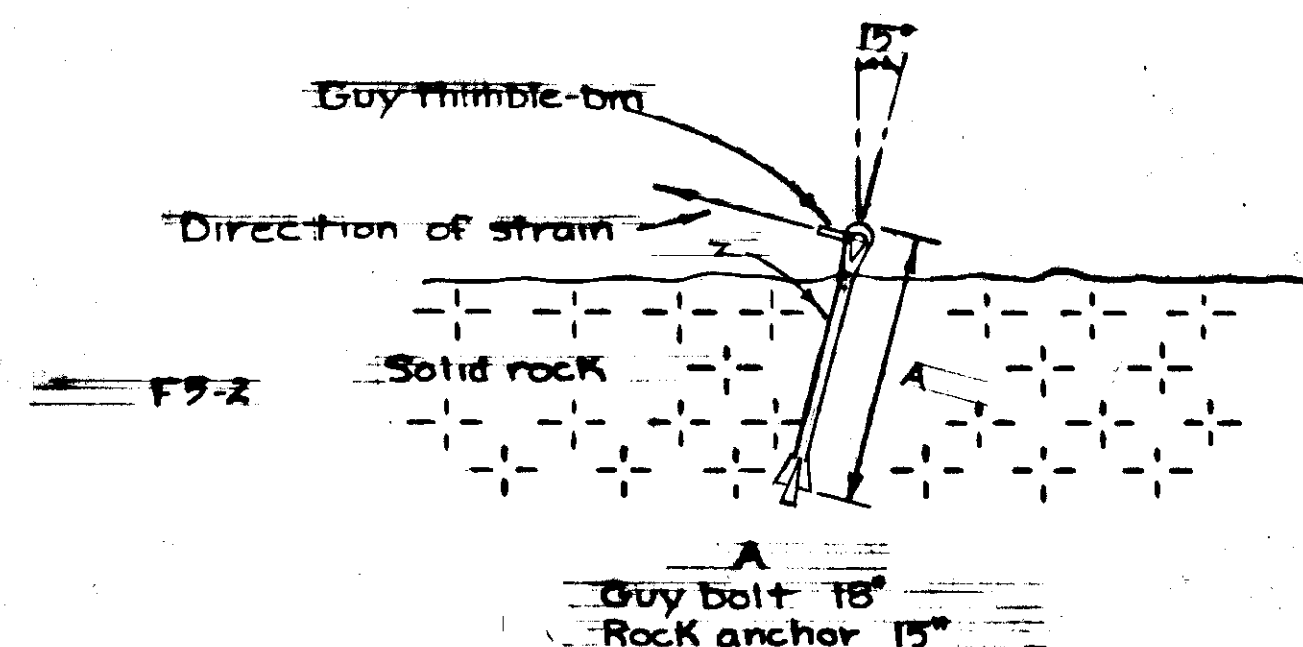
ITEM	NO.	MATERIAL C7-3
d	12	Washer, 2 1/4" x 2 1/4" x 3/16", 1/16" hole
g	3	Crossarm, 4 3/4" x 5 3/4" x 8'-0"
h	2	Brace, angle, 1 1/2" x 1 1/2" x 3/16", 60" span
c	4	Bolt, machine, 1/2" x req'd length
j	2	Screw, lag, 1/2" x 4", washer, rd 3/8" dia.
K	6	Insulator, suspension
n	2	Bolt, double arming, 5/8" x req'd l'gth
aa	3	Nut, eye, 5/8"
ca	3	Deadend assembly, Primary
ck		Locknuts

3-PHASE CROSSARM CONSTRUCTION
DEADEND (SINGLE) C7-3

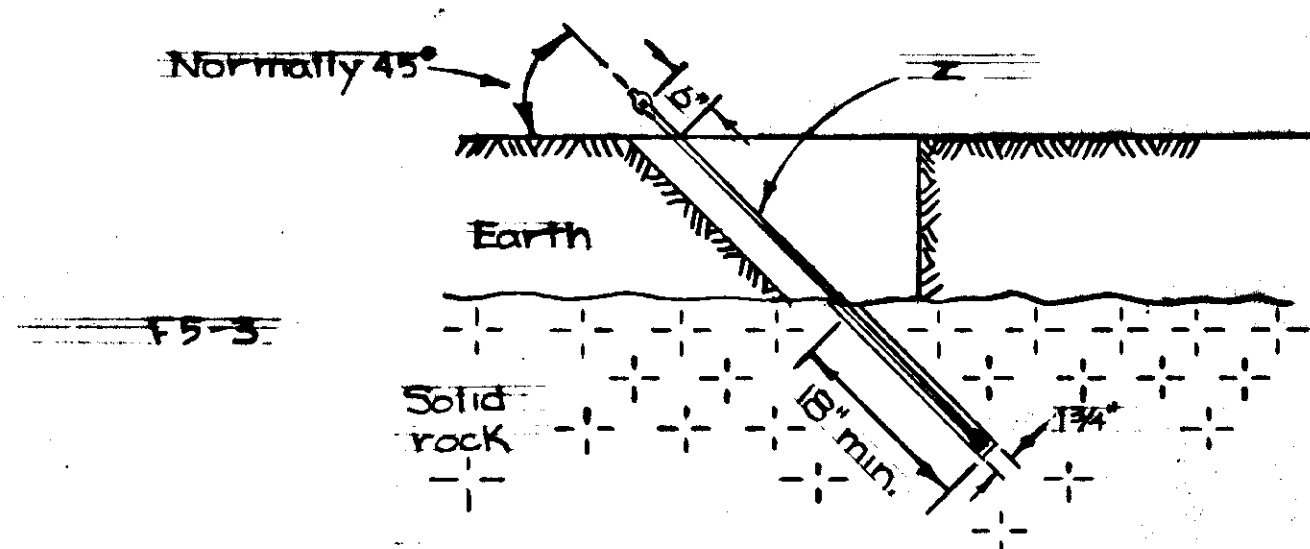
No Scale



A
18" min. for sound solid rock
30" min. for stratified rock



A
Guy bolt 18"
Rock anchor 15"



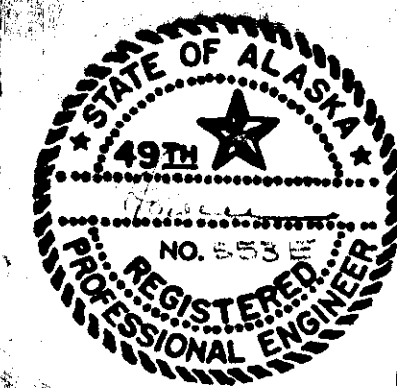
NOTES:

1. Only one guy shall be attached to a rock anchor. Where more than one guy is required space anchors 2 ft. minimum and where practical they shall be indirect line with pole.
2. Do not anchor to any boulder measuring less than 5 ft. in two directions at right angles to each other.

ROCK ANCHOR ASSEMBLIES

No Scale

ITEM	MATERIAL	ASSEMBLY UNIT		
		F5-1	F5-2	F5-3
x	Rod anchor or thimble type eye	No. REQ'D	No. REQ'D	No. REQ'D
z	Anchor, rock	—	1	1
bm	Thimble, guy	—	1	—



E-45

STAKING SHEET

SYSTEM DESIGNATION _____
LOCATION _____
TWP _____ RANGE _____ SECTION _____
MAP REFERENCE _____

NO. OF MEMBERS _____
PRIMARY LINE (FEET) _____
SECONDARY* (FEET) _____
SERVICE DROPS (FEET) _____

Sketch of Work: RETIREMENT

CONTR. OR NO.	POLE NO.	LINE ANGLE	SPAN BACK	WIRE SIZE	POLES HAC	PRI. UNIT	R/W CLEAR	TRANS. "G"	GROUND	UNIT "E"	Lead	Anchor Unit "F"	UNIT "J" or "K"	SPAN Under Sec. Build Only	NO. WIRES & SIZE	UNIT "K"	SPAN	NO. WIRES & SIZE	LOOP	METER SIZE	NAME AND REMARKS
E-9	17E																				
E-9	18E		160	3"2	45/2	C-7			✓				VAR				VAR				S/L F/A
E-9	18EA		150	3"2	45/2	C-7			✓				PUSH				TRI	60	TRI		ZUG - 100 PR.
E-10	19E		140	3"2	45/2	C-1			✓						3"2						S/L F/A
E-10	20E		140	3"2	45/2	C-1			✓						2"2			TRI			S/L F/A 2 PR.
E-10	21E		154	3"2	45/2	C-1			✓				154A/C		2"2			3"2			S/L RISER
E-10	22E		126	3"2	45/2	C-9			✓				126		30		QUAD	30			S/L F/A (2-3)
E-11	23E		144	3"2	45/2	M-3			✓				EI-212725A		2"2		75	TRI			2-F/A - SL TEL.
E-15	23EA		127		30/3								EI-2326F		75		QUAD	30			10 30 S/L
E-4	23EB		92		20/3										2"2						S/L
E-11	24E		115	3"2	45/2	C-1							EI-260 F/H		2"2		45	TRI			10 30 2F/A S/L TEL
E-12	25E		122	3"2	45/2	C-1									2"2						10 30 F/A (2-4) F/A
E-12	25EA		145	3"2											2"2						10 30 S/L
E-12	26E		70	3"2	45/2	C-1									2"2						10 30 S/L F/A 3" UG

0 NEW

STAKED BY _____
CHECKED BY _____
RELEASED FOR CONST. _____
LINE LEAD _____
SHEET NO. OF _____

STAKING SHEET

SYSTEM DESIGNATION _____
LOCATION _____
TWP _____ RANGE _____ SECTION _____
MAP REFERENCE _____

NO. OF MEMBERS _____
PRIMARY LINE (FEET) _____
SECONDARY* (FEET) _____
SERVICE DROPS (FEET) _____

Sketch of Work: RETIREMENT

CONTR. OR NO.	POLE NO.	LINE ANGLE	SPAN BACK	WIRE SIZE	POLES HAC	PRI. UNIT	R/W CLEAR	TRANS. "G"	GROUND	UNIT "E"	Lead	Anchor Unit "F"	UNIT "J" or "K"	SPAN Under Sec. Build Only	NO. WIRES & SIZE	UNIT "K"	SPAN	NO. WIRES & SIZE	LOOP	METER SIZE	NAME AND REMARKS
2(2)																					
3(2)																					TEL F/A (2-6)
4(2)			150		45/2	C-7			✓				EI-2130(12)		150	2"2		3"2			10 30 S/L
5(2)					25/3								EI-2229(43)					3"2			TEL
6(2)			108		45/2			2/50	✓			2	108								3" PRI 12" SEC. U.G. 10-30 S/L
11(3)																					F/A
2(3)																					TEL
3(3)					25/2																3" PRI U.G. 2"1" SEC. U.G.
4(3)			180	3"2	45/2	C-1			✓				EI-21802-3								RELOCATE
6(3)			103	3"2																	UG 8" VMD TEL
2(5)					25/3																
3(5)					2"2																
3"2 TRI					3"2/0 TRI																

* CONVERTED 7.2/12.47 VERIFY DISPOSITION BEFORE RETIREMENT

STAKED BY _____
CHECKED BY _____
RELEASED FOR CONST. _____
LINE LEAD _____
SHEET NO. OF _____

STAKING SHEET

SYSTEM DESIGNATION _____
LOCATION _____
TWP _____ RANGE _____ SECTION _____
MAP REFERENCE _____

NO. OF MEMBERS _____
PRIMARY LINE (FEET) _____
SECONDARY* (FEET) _____
SERVICE DROPS (FEET) _____

Sketch of Work: RETIREMENT

CONTR. OR NO.	POLE NO.	LINE ANGLE	SPAN BACK	WIRE SIZE	POLES HAC	PRI. UNIT	R/W CLEAR	TRANS. "G"	GROUND	UNIT "E"	Lead	Anchor Unit "F"	UNIT "J" or "K"	SPAN Under Sec. Build Only	NO. WIRES & SIZE	UNIT "K"	SPAN	NO. WIRES & SIZE	LOOP	METER SIZE	NAME AND REMARKS
E-11	22E		40	3"2		C-8															
1M			117	3"2	45/2	C-1		25	✓												F/A S/L TEL
2M			137	3"2	45/2	C-1			✓				2 157 IM		2"2						F/A S/L TEL
4F			90	3"2	45/2	C-8/2			✓				EI-2270 F-3		2"2						TEL. S/S
1F																					
2F																					
3F						20/3															F/A TEL
4F			0																		TO IF
5F			95	3"2	45/2	C-1		100	✓				EI-2533F		137	3"2					3-10 2-30
3M						25/3															TEL. F/A
27E					45/1	C-1		100	✓				2 EI-2		3"4/0		2 TRI				8" B/C 200 L + 13 1PR

STAKED BY _____
CHECKED BY _____
RELEASED FOR CONST. _____
LINE LEAD _____
SHEET NO. OF _____

STAKING SHEET

SYSTEM DESIGNATION _____
LOCATION _____
TWP _____ RANGE _____ SECTION _____
MAP REFERENCE _____

NO. OF MEMBERS _____
PRIMARY LINE (FEET) _____
SECONDARY* (FEET) _____
SERVICE DROPS (FEET) _____

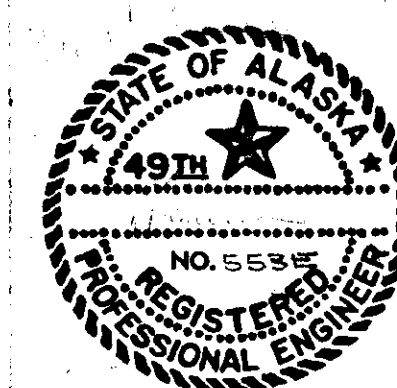
Sketch of Work: NEW CONSTRUCTION

CONTR. OR NO.	POLE NO.	LINE ANGLE	SPAN BACK	WIRE SIZE	POLES HAC	PRI. UNIT	R/W CLEAR	TRANS. "G"	GROUND	UNIT "E"	Lead	Anchor Unit "F"	UNIT "J" or "K"	SPAN Under Sec. Build Only	NO. WIRES & SIZE	UNIT "K"	SPAN	NO. WIRES & SIZE	LOOP	METER SIZE	NAME AND REMARKS
E-9	17E																				
E-12	26E				45/2	C-7.3							M-2 EI-2 65 F/H		2						
E-16	5F				45/2	C-7.3							M-2 EI-2 200 F-52		2						RECONNECT SEC SEE E-48 FOR U.G.
6F													EI-2 160 A/L		1						SEE E-48 FOR U.G.
2(2)					45/2	C-7.3							M-2 EI-2 60 F-52		1						RECONNECT TEL
5(2)					30/3																RECONNECT SEC SEE E-48 FOR U.G. RECONNECT SEC & TEL
6(2)					45/2	C-7.3		2-50					M-2 EI-2 195 F-52		5						SEE E-48
2(3)					45/2																REMOVE ARM
5(3)					45/2	C-1		100					M-2 EI-2 200 A/B		2						RECONNECT EXIST SEE E-47 FOR U.G.
E-17	27E				45/2	C-1							2 EI-2 60 F-5		3"4/0		2 TRI				#
E-15	2(5)																				

II RELOCATE EXIST 2(5) ADJUST PRIMARY SEC. GUY-TRANSFER TEL FROM 3(5) NOTE 7.2/12.47 KV-NEUTRAL FUTURE BY OTHERS

• REINSTALL SECONDARY ASSY

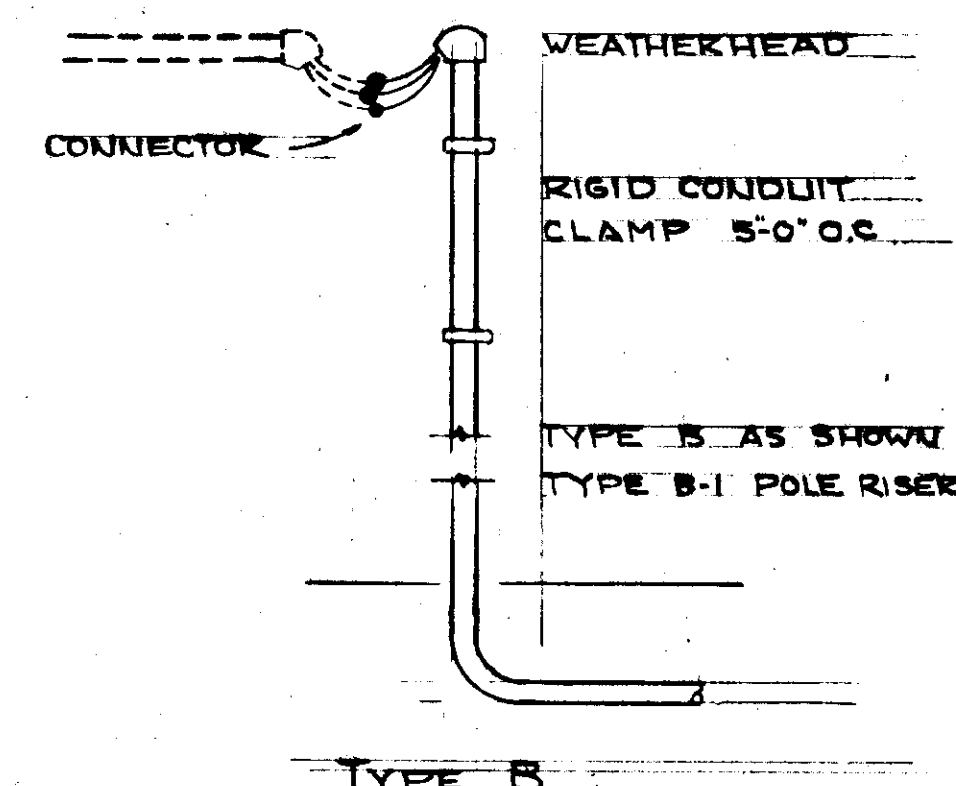
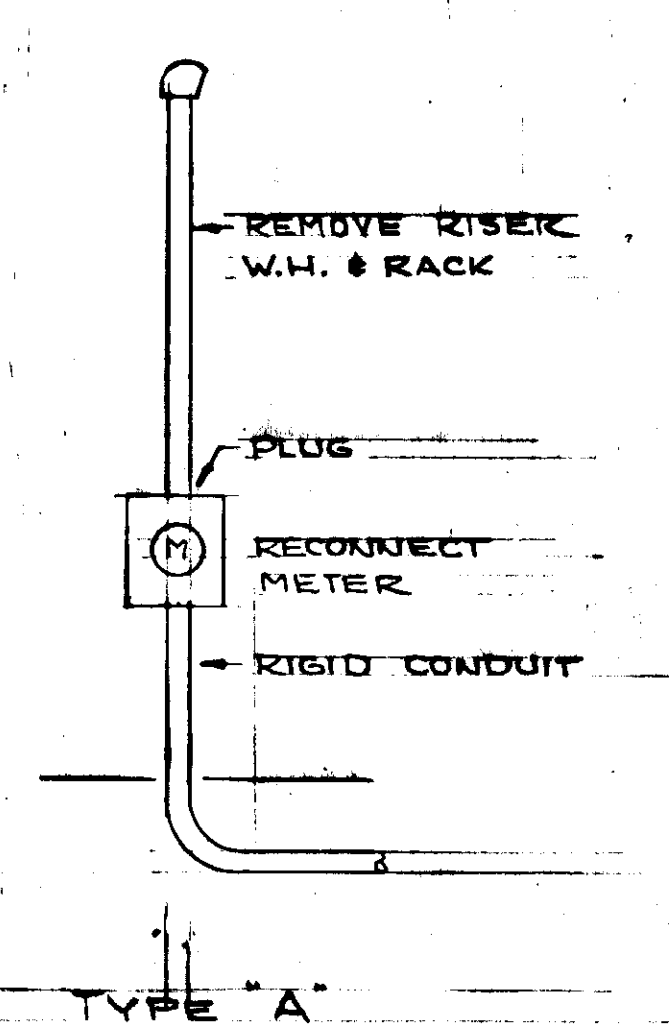
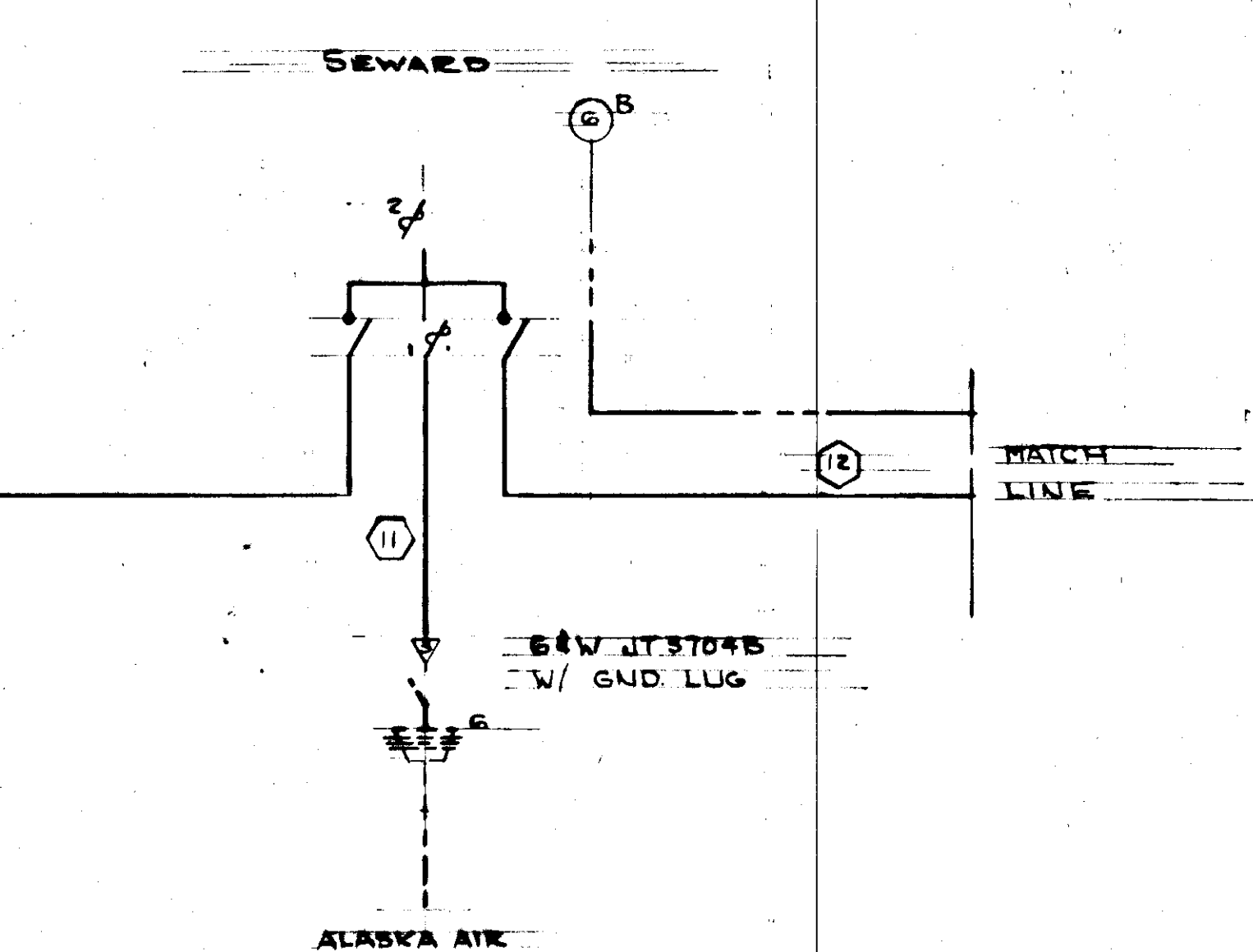
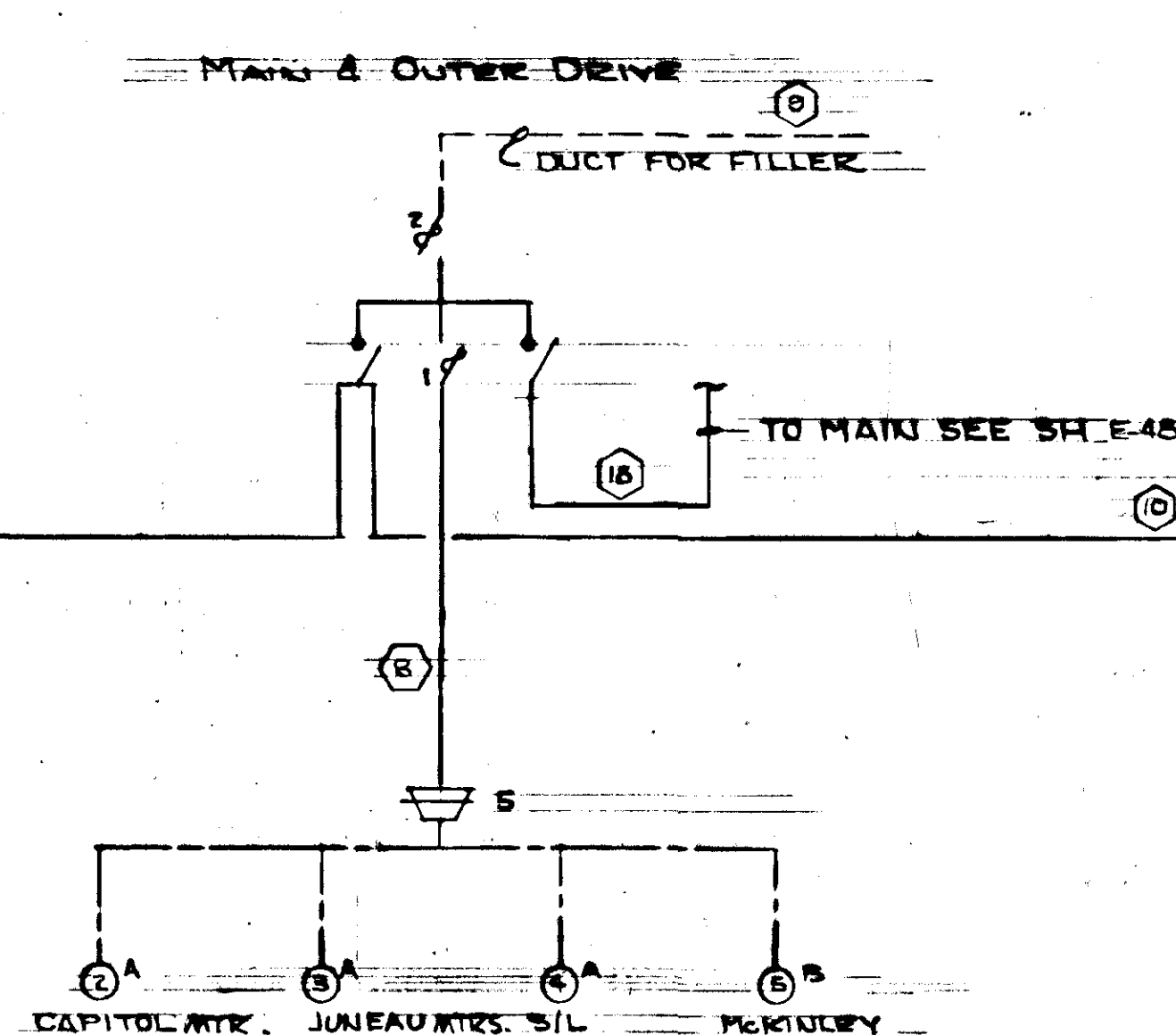
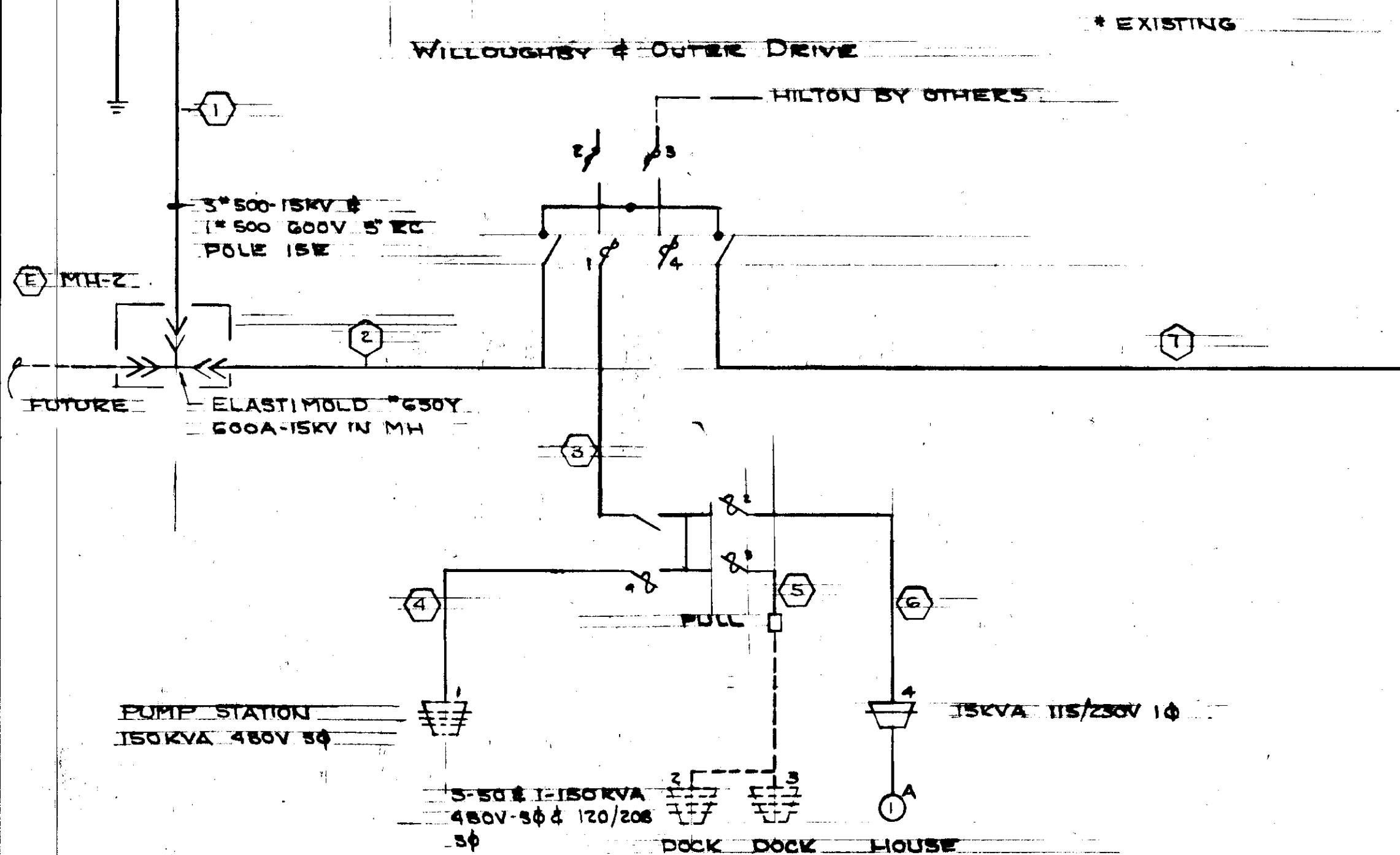
STAKED BY _____
CHECKED BY _____
RELEASED FOR CONST. _____
LINE LEAD _____
SHEET NO. OF _____



SW-4 EXIST					SW 4A				
TAP	SVC	CABLE	C.	FUSE	TAP	SVC	CABLE	C.	FUSE
1	3Ø	4" 2/0			SW				
2	SPARE				1Ø	2" 2-15			
3	3Ø				5Ø	4" 2			
4	SPARE				5Ø	4" 2			

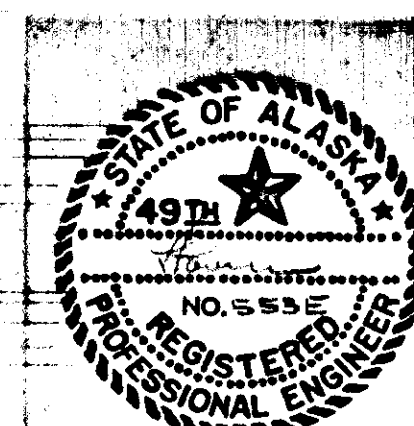
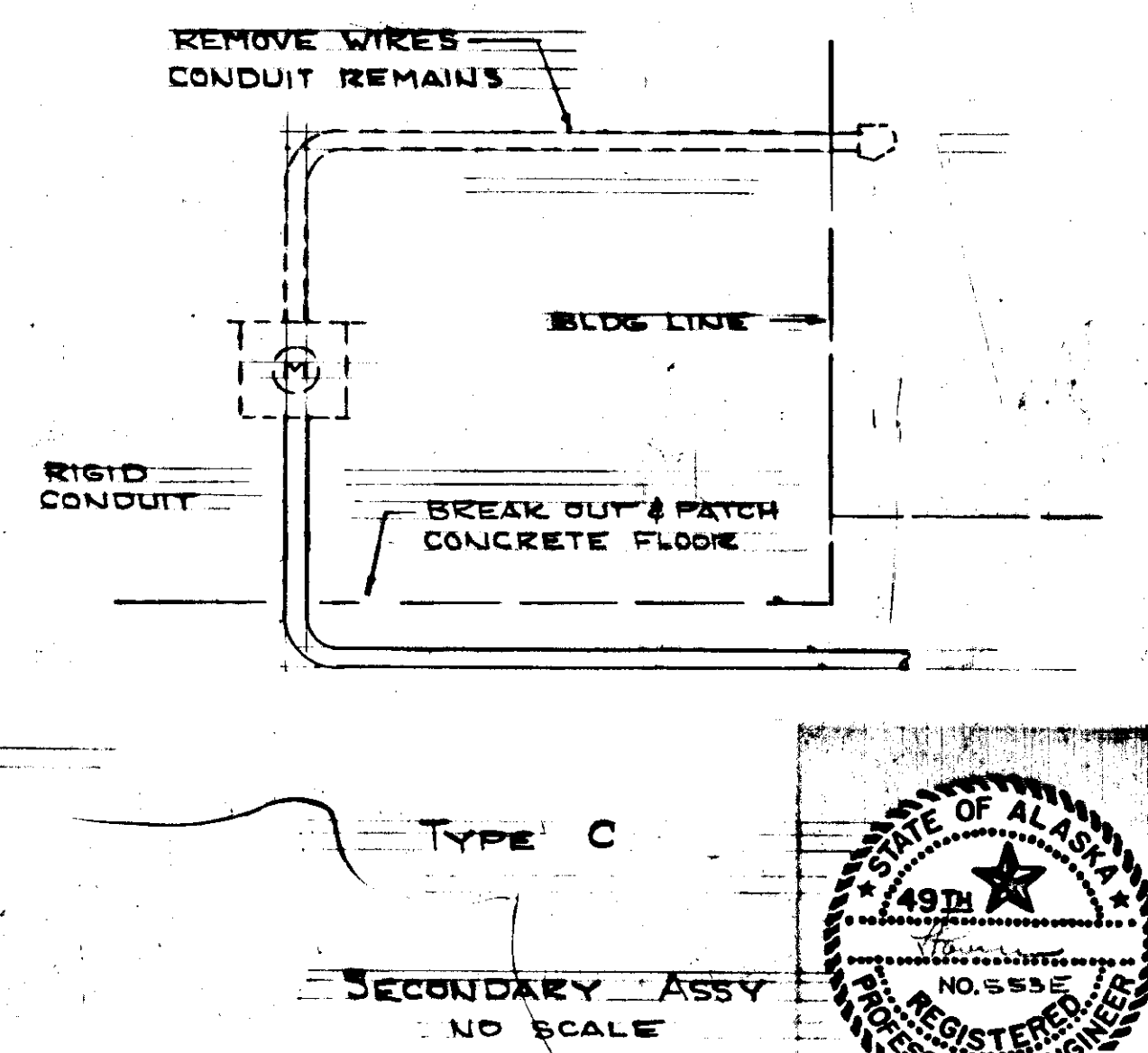
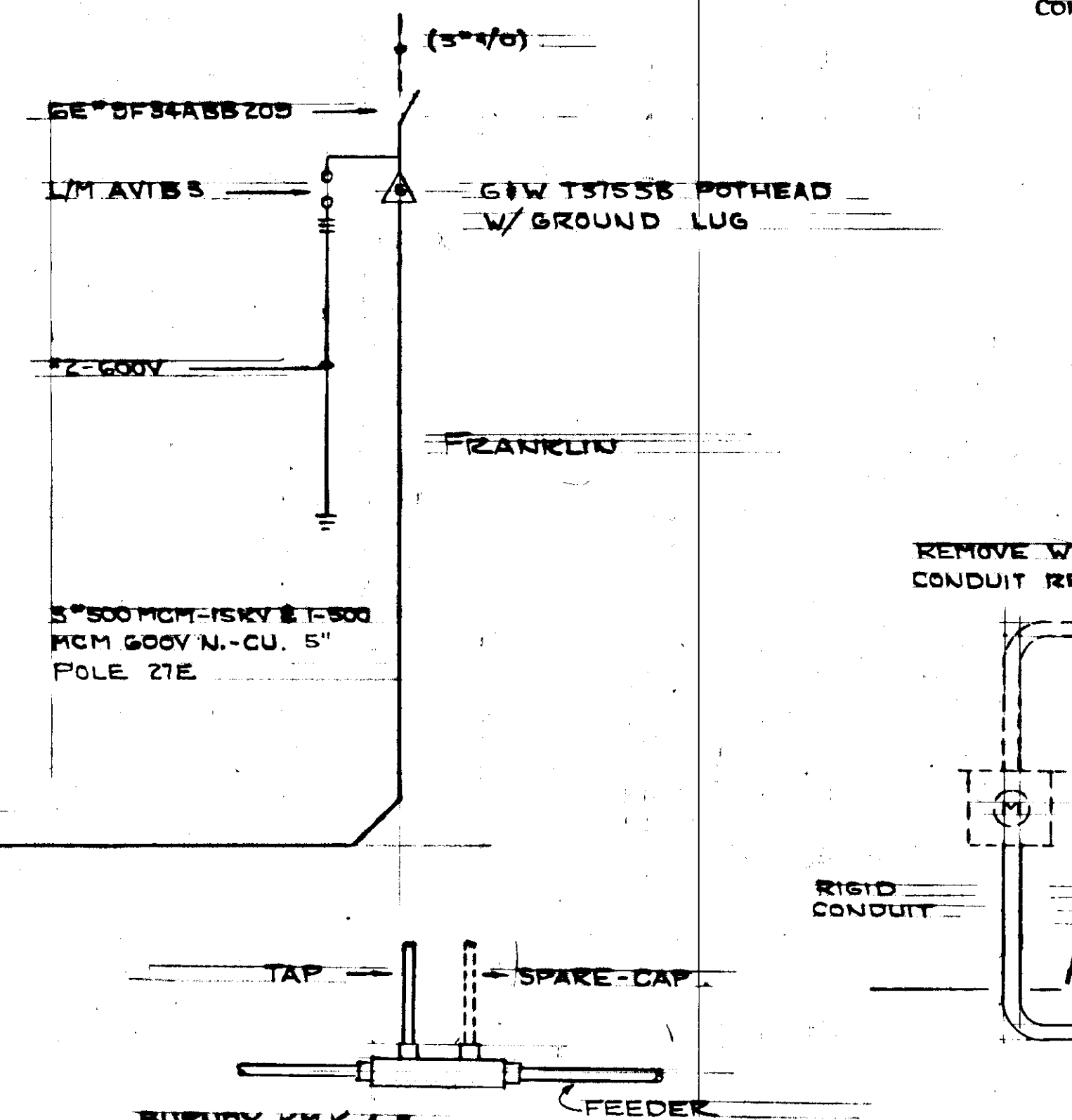
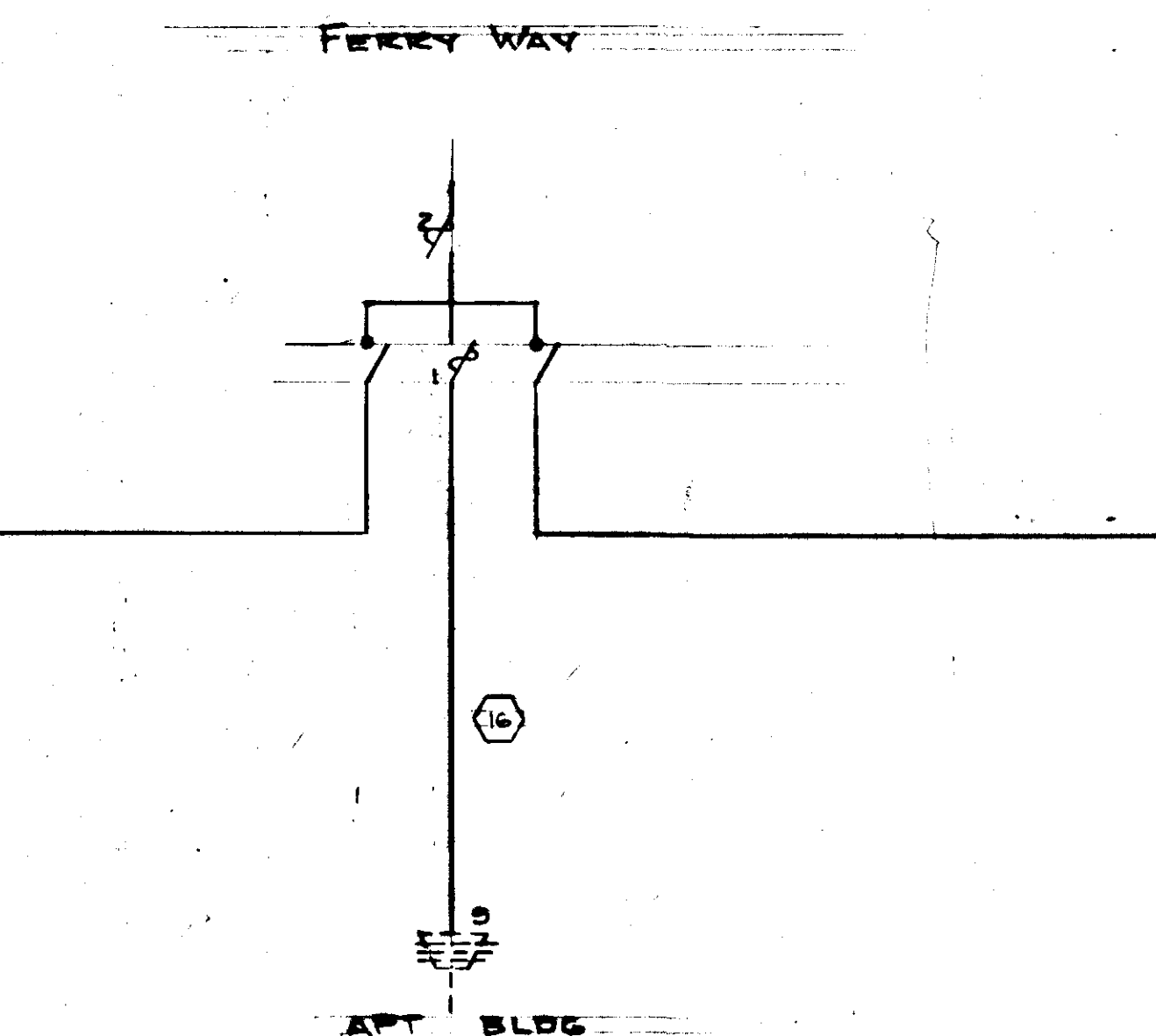
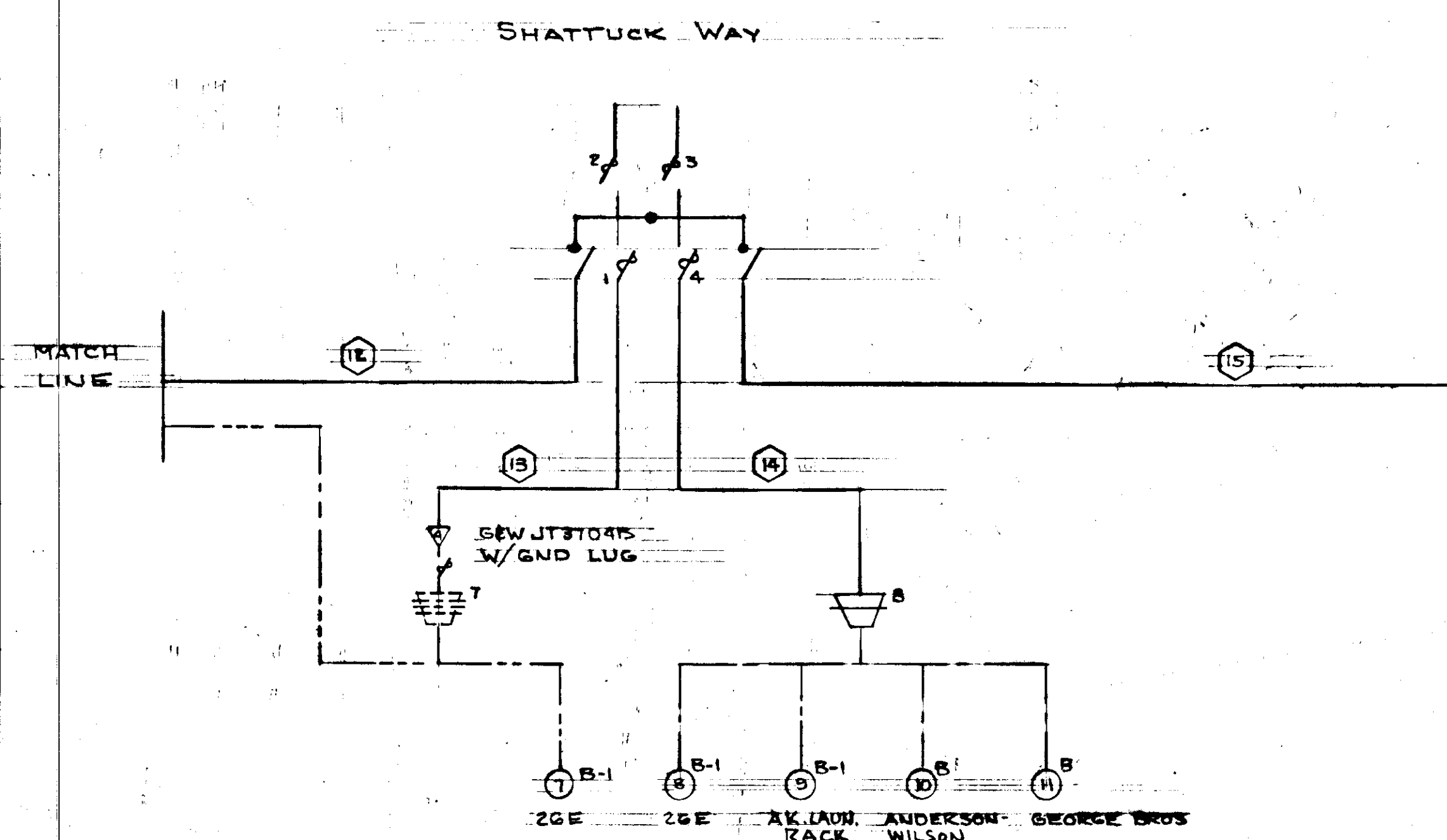
SW-5				
TAP	SVC	CABLE	C.	FUSE
1	1Ø	2" 2-15		
2	3Ø		2-4"	

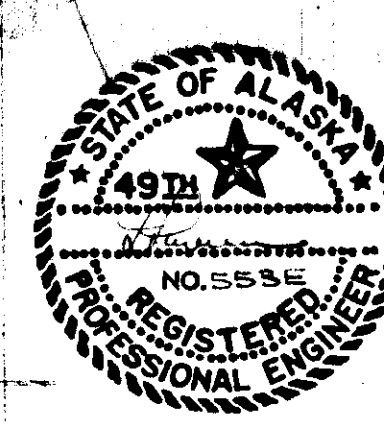
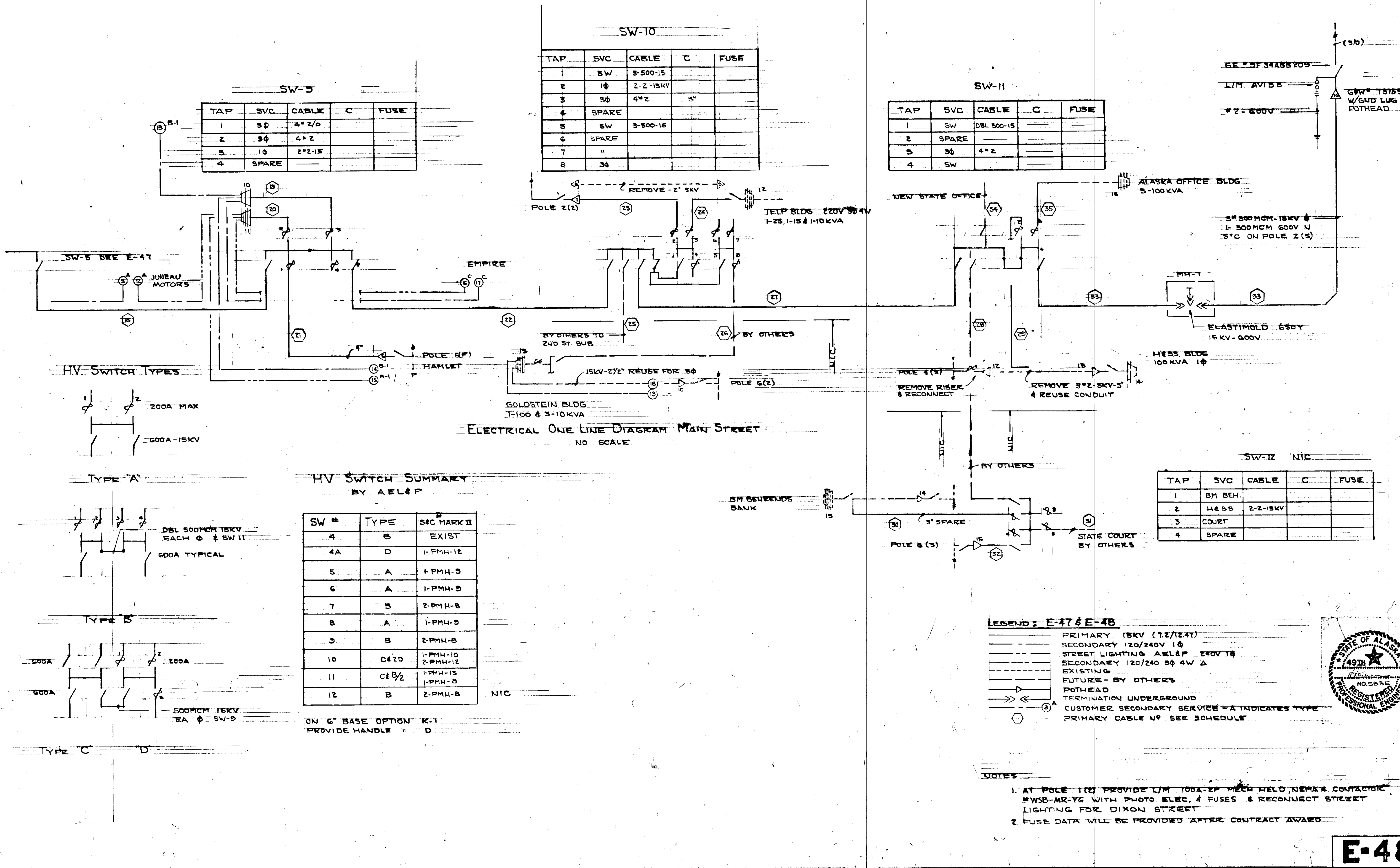
SW-6				
TAP	SVC	CABLE	C.	FUSE
1	3Ø	4" 2	3	
2	SPARE			



SW-7				
TAP	SVC	CABLE	C.	FUSE
1	3Ø	4" 2	3	
2	SPARE			
3	1Ø	2" 2-15	3"	
4	1Ø	2" 2-15	3"	

SW-8				
TAP	SVC	CABLE	C.	FUSE
1	3Ø	4" 2	4"	
2	SPARE			





PRIMARY SCHEDULE

NO.	FROM	TO	WIRE	DISTANCE	TOT. LENGTH (FT.)		CONDUIT		REMARKS
					15 KV	600 V	SIZE	LENGTH	
1	POLE 15E	MH-2	4*500	95	285	95	5" 5"	75 + 4" PER MIN. 45	ELASTIMOLD CONNECTOR #650Y
2	MH-2	SW-4	4*500	370	1110	370	EXIST. DUCT		
3	SW-4	SW-4A	4*210	170	510	170	SAME		
4	SW-4A-4	TR-1	4*2	25	75	25			
5	SW-4A-3	TR-2 & 3	4*2		EXIST		3"	10	* EXISTING 2 1/2" COROFLO
6	SW-4A-2	TR-4	2*2	20	40				
7	SW-4	SW-5	4*500	580	1740	580	UTILIWALK		
8	SW-5-1	TR-5	2*2	15	30				
9	SW-5-2	FILLER					2-4"	110'	FUTURE
10	SW-5	SW-6	4*500	310	930	310	DUCT		
11	SW-6-1	ALASKA AIR TR-6	4*2	170	510	170	3"	150'	
12	SW-6	SW-7	4*500	200	600	200	DUCT		
13	SW-7-1	POLE 25EA	4*2	95	285	95	3"	90'	CONNECT TO TRANSFORMER #7
14	SW-7-4	TR-8	2*2	15	30		3"		
15	SW-7	SW-8	4*500	140	420	140			Δ UTILIWALK / DUCT
16	SW-8-1	APT. BLDG. TR-9	4*2	130	390	130	3" 4"	55' 110'	
17	SW-8	POLE 27E	4*500	235	705	235	5"	40'	
18	SW-9	SW-9	4*500	335	1005	335			Δ UTILIWALK / DUCT
19	SW-9-3	TR-10	2*2	20	40		DUCT		
20	SW-9-2	TR-11	4*2	20	60	20	DUCT		
21	SW-9-1	POLE 5F	4*210	260	780	260		65'	◇ UTILIWALK & 4" CONDUIT
22	SW-9	SW-10	4*500	270	810	270	UTILIWALK		
23	SW-10-2	POLE 2(2)	2*2	155	465	155	3"	135'	Extended Approx. 60'
24	SW-10-3	TR-12 JDTCO	4*2	70	210	70	3"	70'	J-BOX 18" x 12" x 6" SCREW COVER-MARKED
25	SW-10-8	2ND STREET	4*500						FUTURE FEEDER BY OTHERS
26	SW-10-8	TR-13 GOLD.	4*2	230	0	0	2-3"	0	
27	SW-10	SW-11	4*500	305	915	305			
28	SW-11	SW-12	4*500		0	0			BY OTHERS
29	SW-11-2	TR-14 HESS	4*2	180	540	180			
30	SW-12-1	TR-15 B.M.B	4*2		0	0	3"	0	BY OTHERS
31	SW-12-3	ALASKA COURT	4*210				4"		BY OTHERS
32	SW-12	POLE 6(5)	4*500		0	0	5"	0	" "
33-1	SW-11	MH-7	4*500	210	630	210			ELASTIMOLD CONNECTOR #650Y
33-2	MH-7	POLE 2(3)	4*500	295	885	295	5"	50'	+ 3.5' of Plastic Concrete
34	SW-11	NEW OFF. BLDG	4*500						BY OTHERS
35	SW-11-3	AK. OFF. BLDG	4*2	160	480	160			CONNECT TO EXISTING CONDUIT

NON ADD

SECONDARY CONNECTIONS SCHEDULE

NO.	FROM	TO	WIRE	Ø	DIST.	TOTL	TYPE	BURNDY CONNECT.	RIGID COND.	DIST. L.F.	CONNECT. UP APPROX.	REMARKS
1	TR-4	HOUSE	3*2	1	50	150	A	DIRECT	1 1/2"	50'	5'	PATCH ROOF
2-1	TR-5	STA. 0' 76+56	3*3/0	1	240	720		KMK4-B				
2-2	STA. 0' 7+56	CAPITAL MTR.	3*2	1	70	210	A	DIRECT	1 1/2"	60	5'	
3-1	TR-5	HH-17	3*3/0	1	90	270		KMK4-B				
3-2	HH-17	JUNEAU MTR	3*3/0	1	60	180	A	DIRECT	2"	55'	5'	
4-1	TR-5	HH-11	3*3/0	1	130	390		KMK4-B				
4-2	HH-11	ST. LIGHTING	3*10	1	85	255	A	DIRECT	2-2"	40' 40'	5'	SEE S.L. FOR LOCATION & COORDINATE
5-1	TR-5	TR-6A	3*3/0	1	305	915		KMK4-B				
5-2	TR-5	MCKINLEY B.	3*3/0	1	85	255	B	YSD		80'	20'	FLASH CONDUIT THRU MARQUE
6-1	POLE 25EA	MH-5	4*3/0	3	290	1160		Ø	3"	80'		VIA SW-7 & DUCT
6-2	MH-5	SKINNERS	4*2	3	210	840	B	ES	1 1/2"	120'	20'	PATCH PAVEMENT
7-1	POLE 25EA	HH-16	4*3/0	3	215	860		Ø	2-3"	25' 25'	25'	
7-2	HH-16	POLE 26E	3*3/0	3	70	210	B-1	KVS	3"	60'	30'	RECONNECT 3Ø - DEAD END NEUT.
8-1	TR-8	HH-16	3*3/0	1	175	525		KMK4-B				
8-2	HH-16	POLE 26E	3*3/0	1	70	210	B-1	KVS	3"	65'	25'	RECONNECT 1Ø
9	TR-8	POLE 25EA	3*300	1	85	255	B-1	KVS	2-2 1/2"	EXIST.	20'	PARALLEL SVC REUSE EXIST. & RECONNECT
10	TR-8		3*300	1	0							CONNECT TO ANDERSON BLDG.
11-1	TR-8	STA. 0' 84+33	3*3/0	1	165	495		KMK4-B				
11-2	STA. 0' 84+33	GEORGE BROS	3*2	1	50	150	B	ES	1 1/2"	40'	20'	OWNER TO EXT. COND. TO BLDG. WALL 15' UP
12-1	TR-11	HH-17	4*2	3	260	1040		KMK4-B				
12-2	HH-17	JUNEAU MTR.	4*2	3	60	240	A	DIRECT	1 1/2"	60'	5'	
13	TR-10	POLE 1-F	3*3/0	1	125	375	B-1	KVS	2"	110'	20'	RECONNECT 1Ø SECONDARY
14	TR-10	POLE 5-F	3*500	1	240	720	B-1	KVS	3"	60'	25'	SAME
15	TR-10	POLE 5-F	4*3/0	3	245	960	B-1	KVS	2 1/2"	65'	30'	RECONNECT 3Ø SEC. DEAD END NEUT.
16-1	TR-10	STA. E' 14+90	4*3/0	3	170	680		KMK4-B				
16-2	STA. E' 14+90	EMPIRE	4*3/0	3	20	80	C	DIRECT	2 1/2"	15'	5'	
17-1	TR-10	STA. E' 14+90	3*500	1	160	480		KVS				
17-2	STA. E' 14+90	EMPIRE	3*500	1	20	60	C	DIRECT	3"	15'	5'	
18	TR-13	POLE 6(2)	4*3/0	3	155	0			2 1/2"	EXIST.		BY OTHERS
19	TR-13	POLE 6(2)	3*500	1	150	0			3"	0		" "
20	TR-9	SW-7	4*3/0	3			B					
21	SW-7	Pole 25EA	4*3/0	3			B-1					Connect to exist. 3Ø Overhead

KVS / KMK4-B

TRANSFORMER SCHEDULE

NO.	LOCATION	TYPE	SIZE KVA	VOLTAGE	Ø	STATUS	COVER TYPE	REMARKS
1	PUMP STA.	PAD	+50 285	480	3	BY OTHERS	C	COORDINATE
2	DOCK	PAD	150	120/208	3	EXIST.		
3	DOCK	POLE	3-50	480	3	EXIST.		
4	PUMP STA.	POLE	15	120/240	1	REQ'D	B	*
5	JUNEAU MTRS	PAD	+60 30	120/240	1	REQ'D	B	
6	ALASKA AIR	POLE	1-50 20	120/240	3	EXIST.		ON ROOF
6A	SEWARD ST.	PAD				FUTURE	PLAIN	
7	ALASKA LAUN	POLE	3-25 1-100 30 4W	120/240	3	EXIST.		ON POLE - REMOVE 100 KVA
8	ANDERSON BLD	PAD	+100 75	120/240	1	REQ'D	PAD	
9	APT BLDG.	POLE	3-50 100	120/240	3	BY OTHERS		CONNECTION IN VAULT
10	FRONT	POLE	100	120/240	1	REQ'D		*
11	FRONT	POLE	3-25	240	3	REQ'D		*
12	JDTCO	POLE	10, 15 & 25	120/240 1W	3	EXIST.		RECONNECT IN VAULT
13	GOLDSTEIN	POLE	3-10 & 1-100	120/240	1	EXIST.		BY OTHERS
14	HESS	POLE	100	120/240	1	EXIST.		RECONNECT IN VAULT
15	BEHREND'S	POLE	3-15 & 1-25	120/240	1	EXIST.		BY OTHERS

* TEMPORARY ON 100 KVA 1Ø PAD PROVIDE WESTON POWER PRODUCTS INC. FIBER GLASS ENCLOSURE
* PROVIDE CPC STEEL TRANSFORMER ENCLOSURE TH-3-71-54

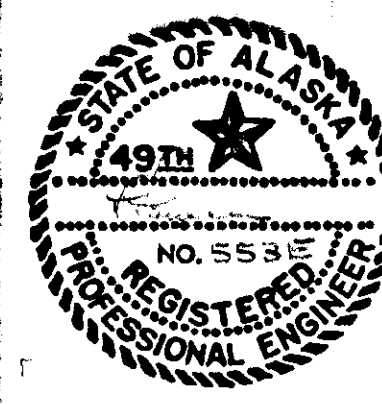
POTHEAD SCHEDULE

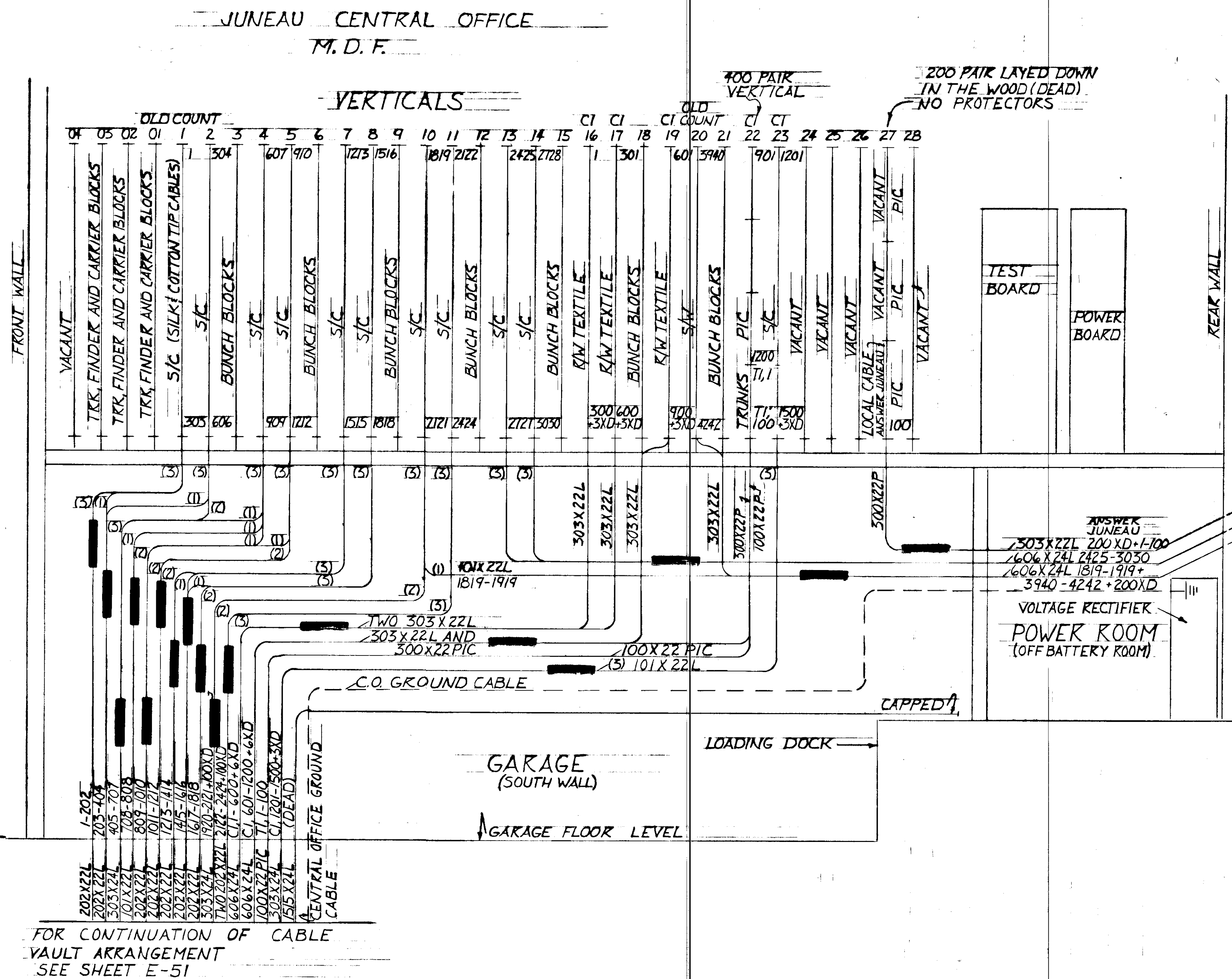
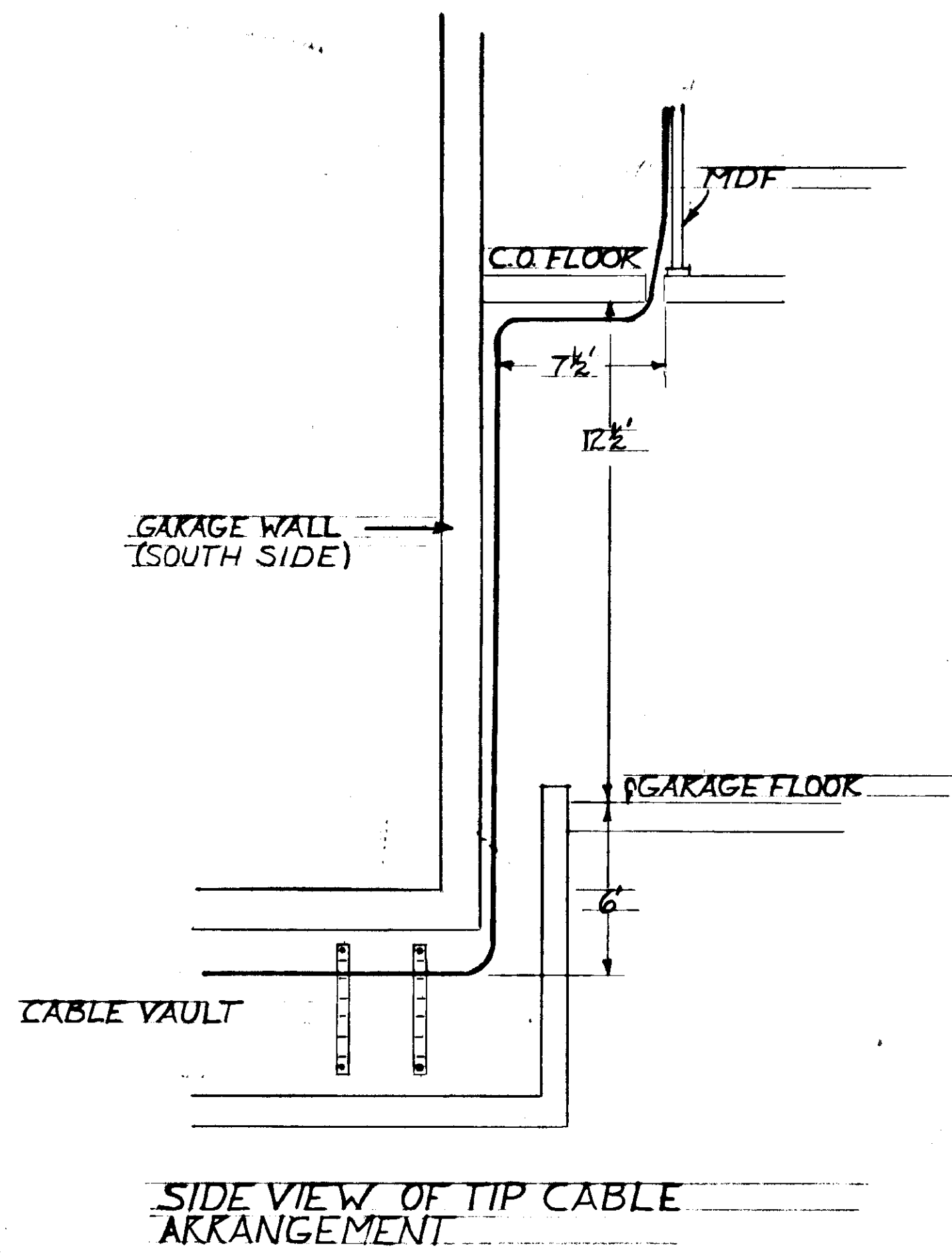
NO.	LOCATION	G.W. TYPE	CONDUIT	CONDUIT	K.V.	STATUS	REMARKS
1	15E	T3755B	4*500		15	REQ'D	
2	IBEA				5	EXIST	REMOVE
3	ALASKA AIR	UT 3704B	4*2	3"	15	REQ'D	
4	ALASKA LAUN	UT 3704B	4*2	3"	15	REQ'D	
5	POLE 27E	T3755B	4*500	5"	15	REQ'D	
6	POLE 5F	T3725B	4*210	4"	15	REQ'D	
7	POLE 2(2)	UT 3704B	4*2	3"	15	REQ'D	
8	POLE 2(2)				5	EXIST	REMOVE
9	JDTCO VAULT				5	EXIST	REMOVE
10	POLE 6(2)				15	EXIST	REMOVE
11	POLE 2(3)				5	EXIST	
12	POLE 4(3)				5	EXIST	REMOVE
13	HESS VAULT				5	EXIST	REMOVE
14	POLE 6(3)				15	EXIST	REMOVE
15	POLE 6(3)	T3755B	4*500	5"	15		BY OTHERS
16	POLE 2(5)	T3755B	4*500	5"	15	REQ'D	

* WITH NEUTRAL LUG

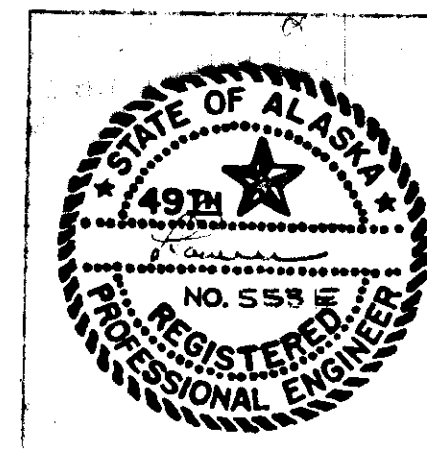
CABLE AND CONDUIT SUMMARY

CABLE	LENGTH	K.C. POWER	LENGTH
500MCM-15	10,035'	5"	210
2/0-15 KV	1290'	4"	285'
2-15 KV	3155'	3"	840'
		2 1/2"	80'
500MCM-600	4605'	2"	325'
300-600	255'	1 1/2"	330'
3/0-600	8305'		
2/0-600	430'		
1/0-600	255'		
2-600	3635'		

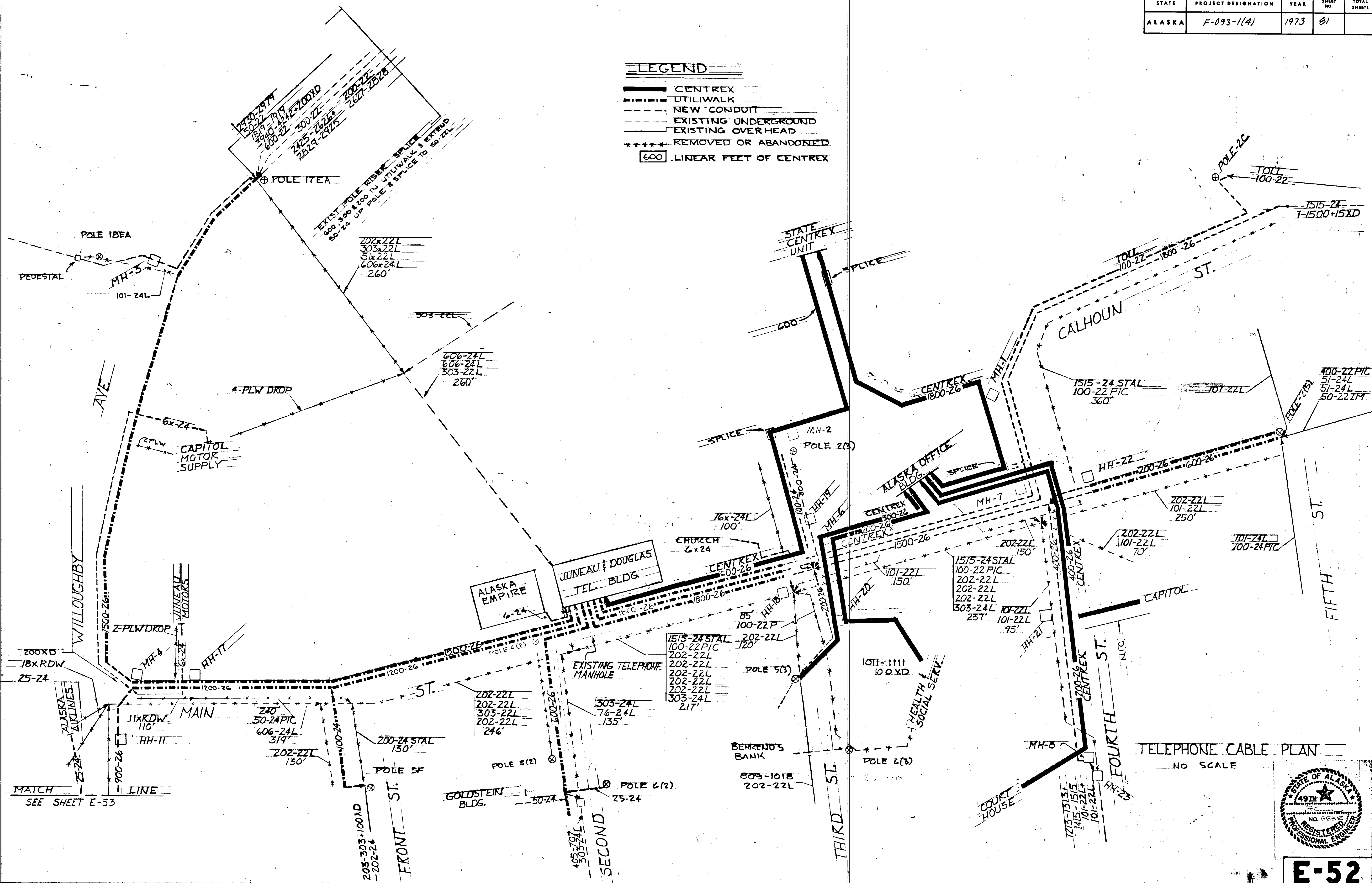


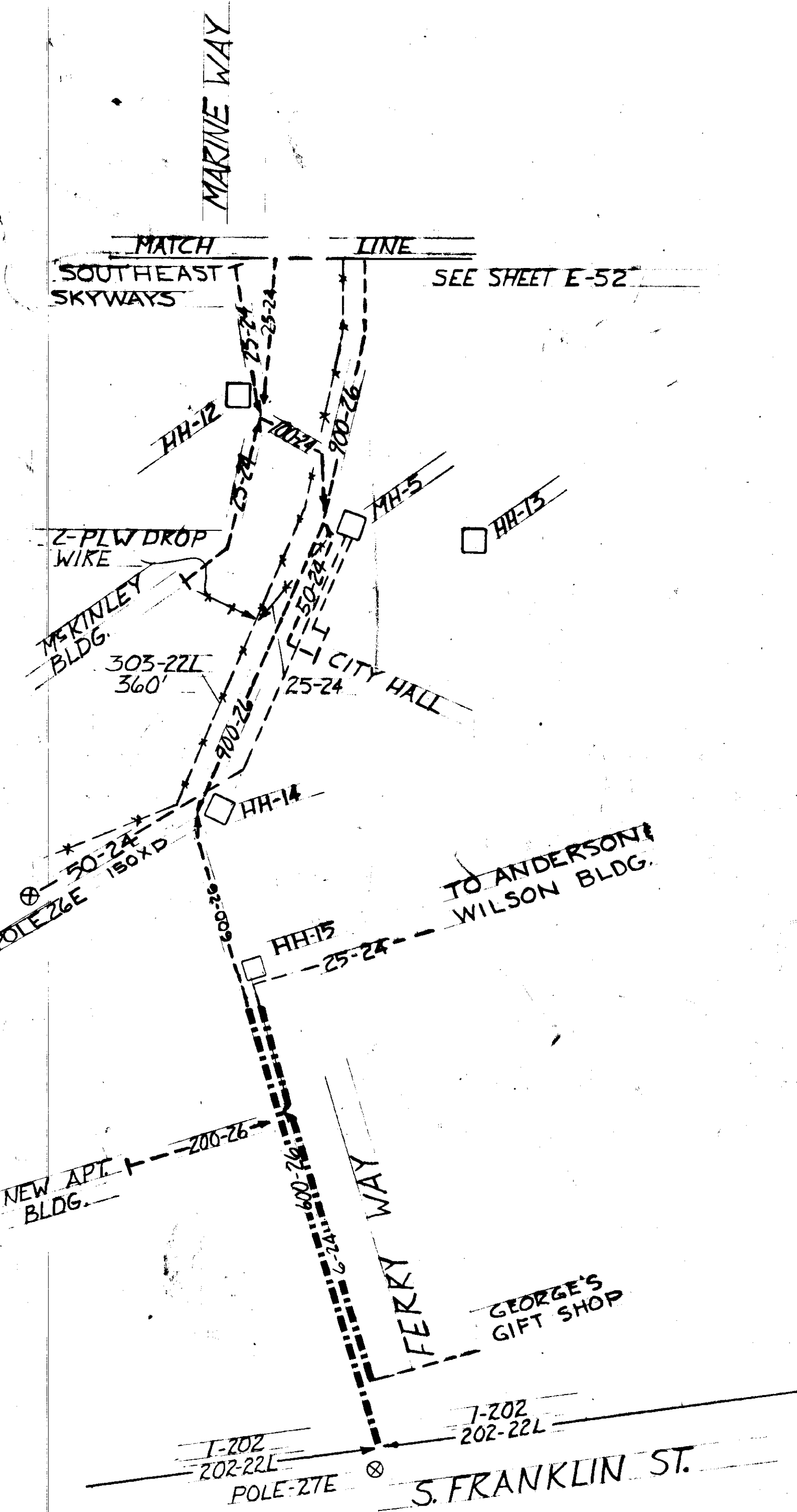


EXISTING ARRANGEMENT
GARAGE WALL - TELEPHONE BUILDING
NO SCALE



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-093-1(4)	1973	81	





TELEPHONE CABLE SCHEDULE

LOCATION	REMOVED OR ABANDONED															NEW FACILITY												ALL TEL-CU		
	1515 24STAL	606 24L	303 22L	303 24L	202 22L	200 24STAL	101 22L	100 22PIC	76 24L	50 24	25 24	16x 24L	18x 24L	51 22L	1800 24TEL-U	1500 26TEL-U	1200 26TEL-U	900 26TEL-U	600 26TEL-U	400 26TEL-U	300 26TEL-U	200 26TEL-U	100 24TEL-U	100 22TEL-U	50 24TEL-U	25 24TEL-U	6x 24TEL-U			
C.O. TO WILLOUGHBY		780	520		260									260																
C.O. TO FRONT			246		738											310	310													
FRONT TO MARINE		319								240		110				215	275													
MAIN TO WILLOUGHBY																720														
MAIN TO POLE-25E			360																											
MH-4 TO HH-14																		400												
HH-14 TO POLE-27E																		370												
HH-15 TO APT.																														
HH-15 TO GEORGES																														
MH-5 TO CITY HALL																														
MH-5 TO HH-12																														
HH-12 TO MCKINLEY																														
HH-12 TO SE SKY																														
HH-12 TO ALASKA A																														
CAPITOL MTR.																														
JUNEAU MTR.																														
FRONT ST.						130	130																							
SECOND ST.				135						135																				
C.O. TO THIRD	217			217	1085				217						580															
THIRD TO FOURTH	237			237	861			150	237						225	225														
FOURTH TO FIFTH					260			250																						
CALHOUN ST.	360								360						875 1600															
FOURTH ST.					70			260																						
THIRD ST.					120			85						100																
WILL TO SUBPT.																														
CITY HALL																														
TO POLE 26E																														
HH-13 TO ANDS. B.																														
CO TO AK. EMP.																														
3RD TO CHURCH																														
CO TO ANS.			300																											
TOTALS:																														
CENTREX															600					740	330	715	750							
LOCAL DIST.															1130	1530	585	400	885	290	160	585								
GRAND TOTAL	780	1099	1426	589	3514	130	660	899	135	240	180	100	740	150	1730	1530	585	400	1625	420	845	835	700	840	575	545	755			

18,810 ESTIMATED SPLICING UNITS
(DIRECT REPLACEMENT)
* U.G. CITY HALL TO POLICE STATION

NOTE: PROVIDE A CONTINUOUS BARE STRANDED #6 GROUND CONDUCTOR THROUGH ALL TELEPHONE UNDERGROUND SYSTEM. GROUND ALL RIGID CONDUIT, AND AT EACH SPlice, THE CABLE SHIELD SHALL BE CONNECTED TO THE GROUND SYSTEM PER REA STANDARDS.

TELEPHONE RIGID CONDUIT SCHEDULE

FROM	TO	SIZE	LENG	UP APPROX	REMARKS
15E	MH-2	3"	45'	1'-0"	STUB 12" UP & CAP
5E	TERMINAL	2"	15'	1'-0"	
UTILIWALK	CAPITOL	1 1/2"	60'	10'	
HH-12	SE. SKYWAYS	1 1/2"	50'	10'	
HH-12	ALASKA AIR	1 1/2"	130'	20'	
HH-12	MCKINLEY	1 1/2"	90'	20'	FLASH MARQUEE
HH-13	SKINNERS	1 1/2"	55'	1'-0"	STUB & CAP
MH-5	CITY HALL	2-2 1/2"	85/90	18'	
HH-10	POLE 26E	2"	50'	20'	
HH-15	ANDERSON	1 1/2"	10'		
UTILIWALK	APT.	2 1/2"	60'		
UTILIWALK	GEORGE BRO.	1 1/2"	50'	20'	
UTILIWALK	POLE 27E	3"	30'	20'	
HH-17	JUNEAU MOT	1 1/2"	40'	10'	
UTILIWALK	POLE 5F	2 1/2"	50'	20'	
UTILIWALK	POLE 6(2)	2"	45'	20'	
UTILIWALK	GOLDSTEIN	2-2 1/2"			NTC
UTILIWALK	EMPIRE	1 1/2"	15'	10'	
UTILIWALK	CHURCH	1 1/2"	10'	8'	
HH-20	H#35	3"			(E)
MH	POLE 2(3)	2-2 1/2"		20'	(E)
HH-21	CAPITOL BLDG	2-4"		8'	(E)
HH-20	POLE 3(3)	3"		15'	(E)
UTILIWALK	POLE 2(5)	3" 1/4"	15'	15'	

□ CORE DRILL THRU WALL - FLASH MARQUEE
* CORE DRILL THRU WALL & PATCH

TELEPHONE R.C. SUMMARY

R.C. TELEP.	LENGTH
4"	15'
3"	90'
2 1/2"	290'
2"	110'
1 1/2"	510'

