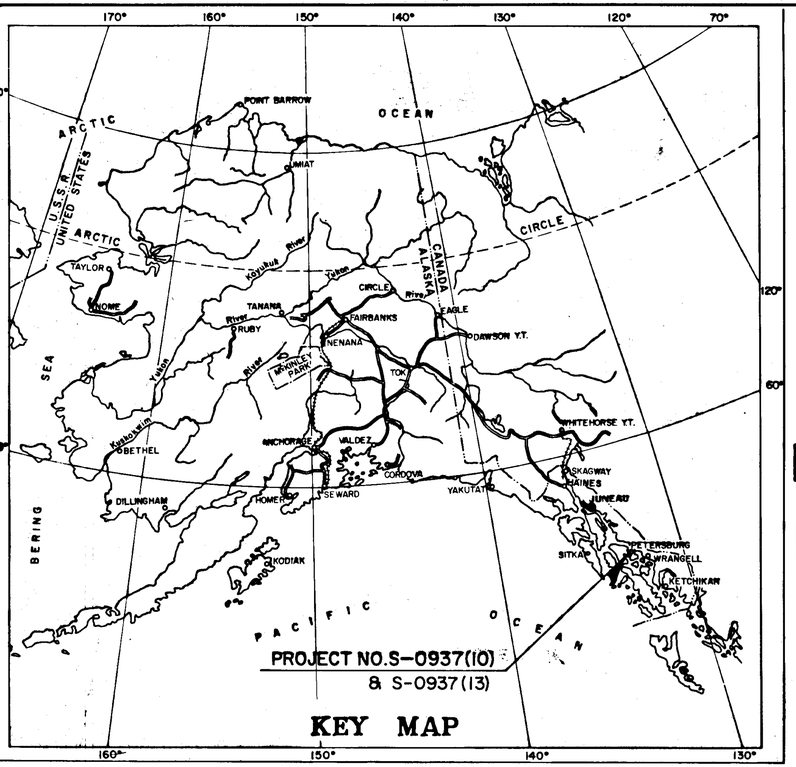
B57052 224

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10) S-0937(13)	1	175



KEY MAP

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

PLAN AND PROFILE
PROPOSED HIGHWAY PROJECT

S-0937(10) & BRS-0937 (13)
PETERSBURG THROUGH ROUTE, PHASE I
FERRY TERMINAL TO "F" STREET
GRADING, DRAINAGE, PAVING
& BRIDGE

"AS BUILT"

CONTRACTOR: LINDBROOK CONSTRUCTION - LYNNWOOD WASHINGTON
PROJECT ENGINEER: ED JOHNSON-P.E. BEGIN CONSTRUCTION: APRIL 30, 1974
END CONSTRUCTION: 1976

INDEX OF SHEETS

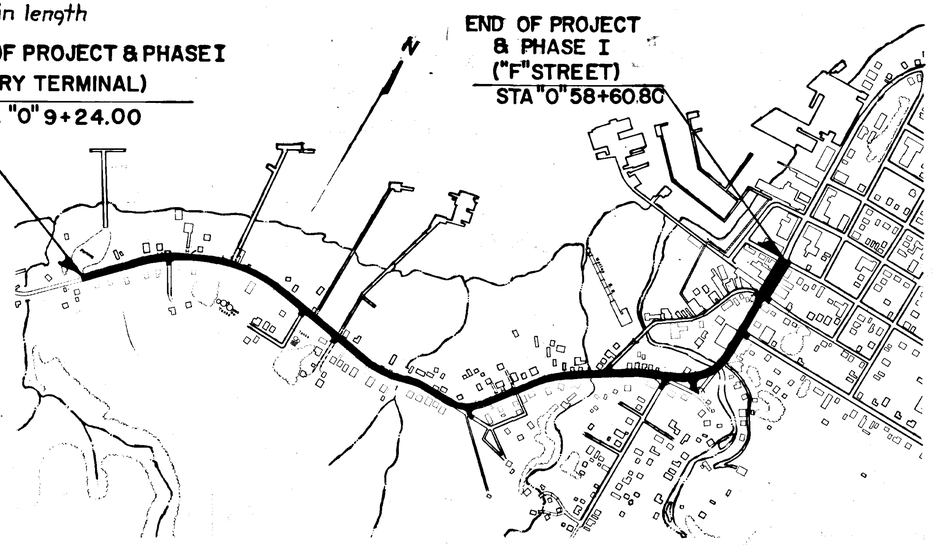
SHEET NO.	DESCRIPTION
1	Title Sheet
2	Typical Section Sheet
3-8	Demolition Plans
9	State Furnished Material Source
10-17	Estimate of Quantities
18-19	Superelevation Tables
20	Sumary Tables
21-29	Plan & Profile Sheets
30-35	Intersection Details
36-42	Storm Drainage Details & Profiles
43	Wooden Structure Connection Details
44-65	Retaining Wall Details
66-68	Utility Details at Standard & Union Oil
69-70	Headwall Details
71-72	Birch Alley Connection Details
73-81	Hammer Slough Bridge Details
82-87	Illumination & Signing Plans
88-101	Water & Sewer Plans
102-126	Power Plans
127-145	Telephone Plans
146-162	Power Staking Sheets
163 175	Telephone Staking Plans

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT: A-1, C-00.00, C-10.00, C-11.00, D-02.00, D-03.00, D-20.00, D-24.00, G-04.00, G-04.11, G-10.00, I-40.00, L-03.00, L-14.00, L-23.00, L-30.00, M-01.00, M-05.00, M-13.00 M-16.00, S-00.00, S-05.00, S-20.00, T-20.00, T-21.00, T-22.00, U-03.00

No change in length

BEGINNING OF PROJECT & PHASE I
(FERRY TERMINAL)
STA "0" 9+24.00

END OF PROJECT
& PHASE I
("F" STREET)
STA "0" 58+60.80



DESIGN SPEED

STA 9+24	to	STA 34+00	40 M.P.H.
STA 34+00	to	STA 37+00	25 M.P.H.
STA 37+00	to	STA 58+60	30 M.P.H.

DESIGN DESIGNATION

		FERRY TERMINAL TO HAMMER SLOUGH	HAMMER SLOUGH TO "F" STREET
ADT(1972)	=	2150	3500
ADT(1995)	=	4060	6600
DHV	=	490	790
D	=	40-60	40-60
T	=	5%	5%

PROJECT SUMMARY

STA 9+24.00 TO STA	58+60.80
WIDTH OF SUBGRADE	55'
WIDTH OF PAVEMENT	41'
LENGTH OF GRADING	4841.97' = 0.917 Mi.
LENGTH OF PAVING	4841.97' = 0.917 Mi.
LENGTH OF BRIDGE	7900 = 0.015 Mi.
LENGTH OF PROJECT	4936.80 = 0.935 Mi.

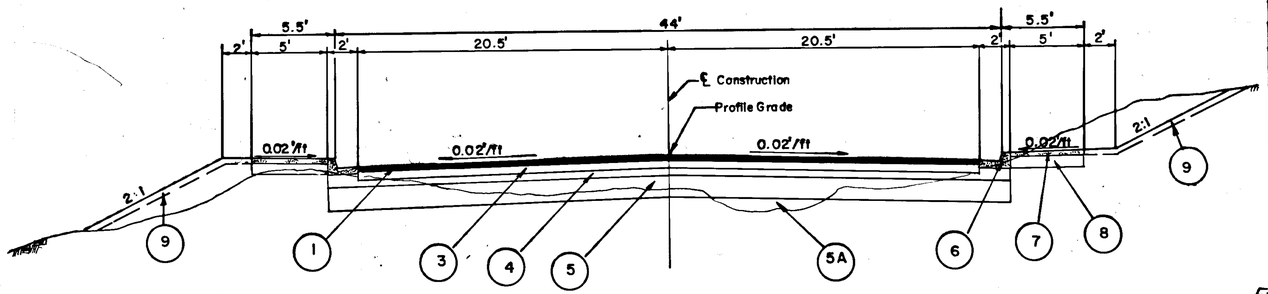
STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

APPROVED
Allan E. Wold Date 11/26/73
SOUTHEAST DISTRICT ENGINEER

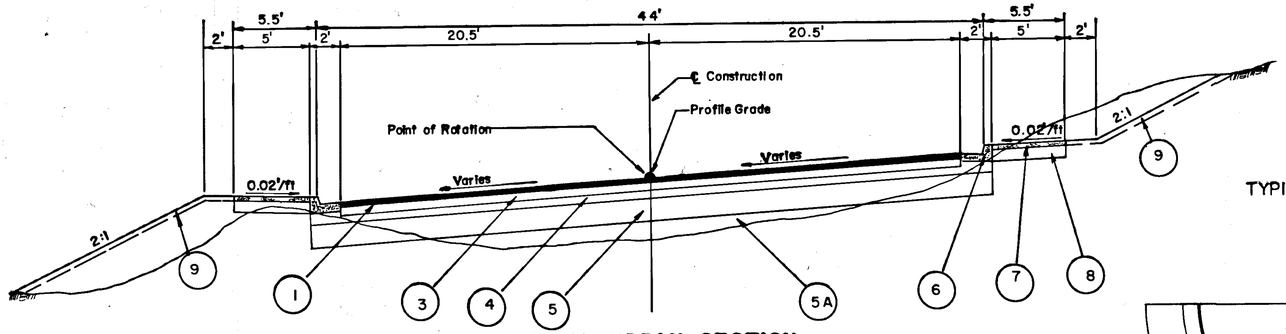
APPROVED
D. Campbell Date 12/19/73
COMMISSIONER OF HIGHWAYS

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	2	175

TYPICAL SECTION OF IMPROVEMENT



TYPICAL URBAN SECTION



TYPICAL URBAN SECTION
WITH SUPERELEVATION

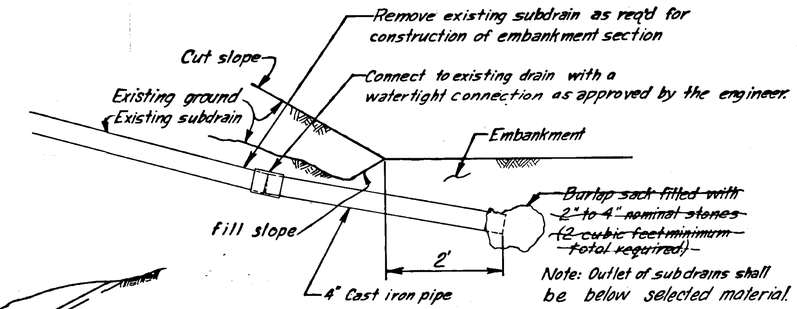
LABELING INDEX

1. 3" Hot Bituminous Pavement (2-1½" Layers)
3. 6" Crushed Aggregate Base, Grading D-1
4. 6" Subbase, Grading A
5. Selected Material-Depth Varies (See Table)
5A. Useable Unclassified Excavation and/or Borrow and/or Rock Borrow
6. Curb and Gutter - Barrier Type (See Std. Dwg.)
7. 4" Concrete sidewalk
8. 8" Subbase, Grading A
9. 4" Topsoil and Seed

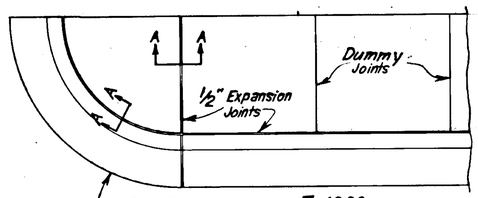
Minimum Depth of Selected Material		
Station	to Station	Depth
9+24	50+23	17"
50+23	51+02	0
51+02	52+10	17"
52+10	53+70	9"
53+70	58+60	17"

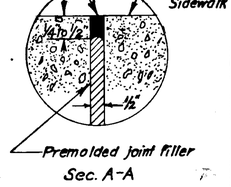
BASIS OF ESTIMATE	
Item	Estimating Factor
203(5B)	1.80 Tons per cu. yd.
301(1)	1.96 Tons per cu. yd.
304(1)	1.87 Tons per cu. yd.
401(1)	112 lbs. per sq. yd. inch depth
401(2)	T.4 % of Item 401 (1)

DELETE
SUBDRAIN DETAIL

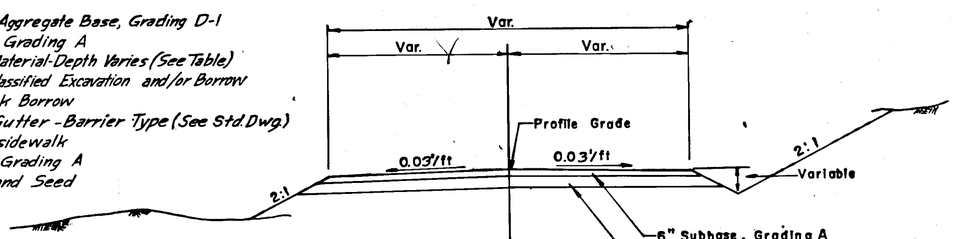


TYPICAL CONCRETE CURB & SIDEWALK JOINT DETAILS





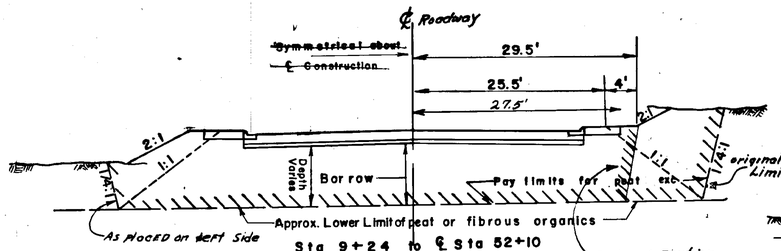
Notes:
1. Premolded expansion joint filler and liquid polymer joint sealer (see specifications) shall be considered incidental to pay item 608(1) "Concrete Sidewalk" and no separate payment shall be made therefore.
2. Curb and gutter expansion joints shall be at the end of the curb return, and immediately following and preceding curb cuts. Thereafter expansion joints shall be spaced intermediately at intervals of 30' except where shorter sections are needed for closure.
3. Sidewalk expansion joints shall be opposite expansion joints in adjoining curb and gutter. Dummy joints shall be equally spaced between expansion joints spacing shall not exceed 6'
4. Premolded expansion joint material ½" thick shall be placed longitudinally where sidewalk abuts concrete structures.



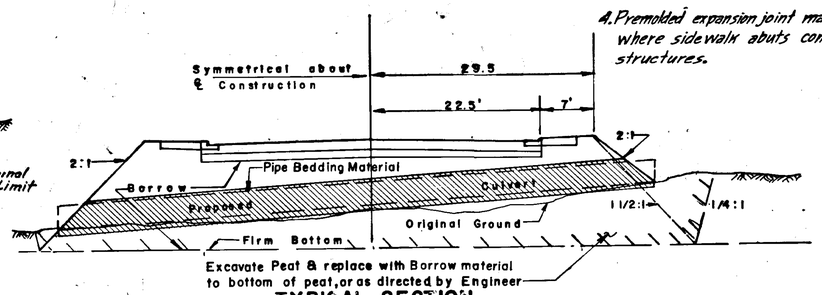
TYPICAL SECTION
CROSS STREET

GENERAL NOTES

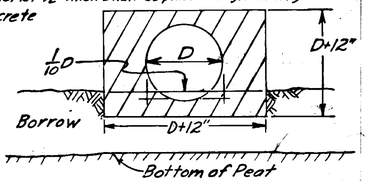
1. Grades and alignment shown on the plans are subject to minor revisions.
2. Storm inlets, culvert location and lengths are subject to minor revisions.
3. For clarity, utilities are shown only on the Utility Plans.
4. The clearing and grubbing limits shall be a neat line 15 feet beyond the construction limits or to the construction permit line, whichever is less.
5. Topsoil and seeding will not be required on embankment slopes intersecting undeveloped beach areas.
6. Piling, foundations and other appurtenances within the construction permit line and not specified to be removed shall be protected during construction by shoring, bracing, or other approved means. Such protection will be incidental to other items of work.
7. Existing piling within the roadway construction limits shall be removed in its entirety and payment shall be as provided in Section 202 under Pay Item 202(1).
8. Borrow material required to replace peat removal shall be rock as specified in Section 203-3.02
9. Regrade all existing approaches at curb cuts with Subbase Grading "A" as directed by the engineer.
10. No approach work will be required for curb cuts having no existing approach.
11. Existing signs will be removed by others.
12. At retaining wall locations, the sidewalk width shall be extended to the face of the retaining wall.
13. All Concrete walks and/or stairs except for those constructed with retaining walls, and to be reconstructed outside of the R/W, shall be measured and paid for as 4" sidewalk. All concrete driveways shall be measured and paid for as 6" sidewalk.
14. Where concrete stairs are required and are not indicated on the plans except as sidewalk to be replaced, they shall be field fit to give a suitable approach to the property owner and shall conform to Standard Drawing M-01.00.
15. In areas indicated on the plans as Rock Embankment, only the outer three feet of the roadway prism and the channel detailed on the bridge plans must meet the requirements of Rock Embankment as specified in Section 203 of the Special provisions.



TYPICAL SECTION
Reduced PEAT REMOVAL



TYPICAL SECTION
EXCAVATION LIMITS FOR CULVERTS



Note: This detail shall be used in lieu of Standard Drawing D-02.00 to bed pipes

BEDDING DETAIL

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	B	175

SUMMARY REMOVAL OF STRUCTURES & OBSTRUCTIONS

CULVERT REMOVAL SUMMARY

STATION	SIZE	OFFSET
"0" 9+87	18"×54'	28' Rt.
"0"10+18	18"×50'	℄
"0"10+53	8"×6'	17' Rt.
"0"10+96	12"×17'	16' Rt.
"0"11+22	12"×17'	18' Rt.
"0"11+45	24"×56'	26' Lt.
"0"11+92	18"×49'	℄
"0"12+20	8"×16'	24' Rt.
"0"12+36	8"×6'	22' Rt.
"0"13+~~72~~76	8"×6'	16' Rt.
"0"14+~~73~~20	12"×34'	℄
"0"14+58	12"×20'	12' Rt.
"0"16+~~20~~23	12"×33'	℄
"0"16+77	12"×20'	12' Rt.
"0"17+58	12"×34'	℄
"0"17+93	12"×29'	21' Rt.
"0"18+50	12"×76'	℄
"0"19+35	12"×33'	℄
"0"19+58	12"×6'	27' Rt.
"0"20+38	12"×6'	27' Rt.
"0"20+62	12"×20'	28' Rt.
"0"21+19	12"×52'	℄
"0"23+09	12"×~~36~~25'	25' Rt.
"0"23+34	12"×34'	℄
"6th" 50+85	8"×30'	22' Lt.
"0"24+69	8"×72'	23' Rt.
"0"25+27	18"×48'	℄
"0"25+56	10"×18'	22' Rt.
"0"25+75	10"×6'	22' Rt.
"0"26+10	10"×31'	22' Rt.
"0"27+62	10"×47'	19' Rt.
"0"28+16	10"×17'	18' Rt.
"0"28+30	12"×36'	℄
"0"28+88	12"×49'	℄
"0"29+10	12"×18'	21' Rt.
"0"29+56	8"×9'	20' Rt.
"0"30+67	12"×35'	29' Rt.
"0"31+28	36"×61'	℄
"0"32+03	8"×25'	13' Lt.
"0"32+20	10"×7'	16' Rt.
"0"32+59	12"×33'	10' Rt.
"0"32+90	10"×44'	16' Lt.
"0"33+27	10"×6'	16' Lt.
"0"34+00	12"×88'	16' Lt.
"0"34+37	8"×6'	10' Rt.
"0"34+70	10"×~~78~~35'	℄
"0"35+15	10"×50'	25' Rt.
"0"35+55	12"×6'	2' Lt.
"0"36+55	10"×6'	7' Rt.
"0"36+90	10"×8'	18' Lt.
"0"36+96	10"×22'	8' Rt.
"0"37+15	10"×18'	18' Lt.
"0"37+48	10"×8'	10' Rt.
"0"38+10	10"×16'	14' Lt.
"0"38+26	10"×8'	13' Rt.
"0"38+66	10"×17'	13' Lt.
"0"39+05	16"×18'	12' Lt.
"0"39+65	8"×19'	10' Lt.
"0"39+97	10"×8'	19' Rt.
"0"40+32	12"×39'	10' Lt.
"0"40+49	12"×7'	17' Rt.
"0"41+05	12"×62'	12' Lt.
"0"41+24	12"×46'	15' Rt.
"0"41+70	18"×25'	11' Lt.
"0"42+23	12"×8'	20' Rt.
"0"42+76	12"×76'	12' Lt.
"0"44+15	8"×8'	12' Rt.
"0"45+63	8"×8'	15' Lt.
"0"45+63	12"×37'	13' Rt.
"0"45+95	12"×33'	13' Lt.
"0"46+58	12"×7'	14' Lt.
"0"46+86	12"×7'	13' Lt.

CONCRETE SIDEWALK REMOVAL

STATION	SIZE	OFFSET	SQUARE YARD
"0" 13+74	5'×18'	18' Rt.	10
"0"19+57	4'×5'	24' Rt.	2
"0"27+44	2'×4'	27' Rt.	1
"0"29+57	3'×15'	22' Rt.	5
"0"32+20	3'×15'	19' Rt.	5
"0"34+38	5'×20'	12' Rt.	11
"0"36+92	4'×22'	20' Lt.	10
"0"42+21	3'×20'	19' Rt.	7
"0"45+50	8'×7'+4'×11'	20' Rt.	11
"0"51+90 to "0"52+15	3'×25'	14' Rt.	8
"0"52+15 to "0"53+29	5'×114'	12' Rt.	63
"0"52+21 to "0"53+61	4'×140'	22' Lt.	62
"0"52+38	5'×10'	17' Rt.	6
"0"53+25	5'×12'	13' Rt.	7
"0"53+59	4'×7'	26' Lt.	3
"0" 53+75 to "0"55+61	55'×186'	12' Rt.	114
"0"53+96 to "0"55+91	5'×134'	18' Lt.	108
"0"55+61 to "0"56+00	5'×40'	15' Rt.	22
"0"55+63 to "0"55+83	20'×20'	19' Rt.	44
"0"56+15 to "0"56+64	5'×50'	5' Lt.	28
"0"56+30 to "0"58+34	7'×204'	24' Rt.	159
"0"56+89 to "0"58+25	6'×196'	℄	91
"0"58+23	4'×32'	1' Rt. to 31' Lt.	14
		Total	791

WOODEN SIDEWALK SUMMARY

STATION	SIZE	OFFSET	SQUARE FEET
"0"10+53	5'×23'	16' Rt.	115
"0"12+~~86~~56	4'×13'	24' Rt.	52
"0"13+30	5'×34'	5' Lt.	170
"0"13+48	5'×41'	6' Lt.	205
"0"15+11	8'×4'	27' Lt.	32
"0"15+28	7'×4'	28' Lt.	28
"0"15+59	8'×5'	21' Rt.	40
"0"16+89	4'×23'	16' Lt.	92
"0"20+37	4'×5'	27' Rt.	20
"0"20+54	4'×4'	28' Rt.	16
"0"24+21	4'×9'	29' Lt.	36
"0"25+74	5'×16'	20' Rt.	80
"0"27+64	4'×22'	12' Lt.	88
"0"30+51	3'×18'	25' Rt.	54
"0"31+55	5'×32'	12' Lt.	160
"0"32+11	4'×32'	14' Lt.	128
"0"32+65	5'×27'	8' Rt.	135
"0"32+73	3'×21'	22' Lt.	63
"0"33+28	3'×14'	16' Lt.	42
"0"33+76	5'×7'	29' Lt.	35
"0"33+84	3'×14'	20' Rt.	42
"0"33+90	5'×10'	25' Lt.	50
"0"35+07	5'×3'	27' Lt.	15
"0"35+55	5'×41'	2' Lt.	205
"0"36+54	4'×36'	5' Rt.	144
"0"37+49	5'×29'	14' Rt.	145
"0"37+94	5'×20'	20' Lt.	100
"0"38+27	4'×24'	18' Rt.	96
"0"38+84	4'×21'	17' Rt.	84
"0"39+57	4'×15'	27' Lt.	60
"0"39+96	3'×19'	18' Rt.	57
"0"40+49	4'×20'	18' Rt.	80
"0"41+01	4'×21'	20' Lt.	84
"0"41+38	6'×7'	23' Rt.	42
"0"41+84	4'×8'	23' Lt.	32
"0"42+41	4'×13'+4'×10'+4'×22'	11' Lt.	180
"0"44+15	4'×20'	10' Rt.	80
"0"45+63	3'×18'	20' Lt.	36
"0"46+07	4'×20'	13' Lt.	80
"0"46+60	4'×18'	17' Lt.	72
"0"46+86	4'×22'	10' Lt.	88
"0"47+23	3'×15	11' Lt.	45

REMOVAL OF FENCE

STATION	TO STATION	LENGTH	OFFSET
"0"13+21	"0"13+70	50'	25' Rt.
"0"13+74	"0"13+90	42'	21' Rt.
"0"27+47	"0"27+60	15'	14' Lt.
"0"27+66	"0"27+87	35'	18' Lt.
"0"30+28	"0"30+51	39'	27' Rt.
"0"36+38	"0"36+88	71'	22' Lt.
"0"37+30	"0"37+55	55'	25' Lt.
"0"37+69	"0"38+05	52'	21' Lt.
"0"39+18	"0"39+94	87'	24' Rt.
"0" 39+99	——	16'	23' Rt.
"0"41+41	"0"42+20	78'	22' Rt.
"0"42+22	"0"43+03	78'	21' Rt.
"0"46+68	"0"46+84	37'	16' Lt.
"0"46+89	"0"47+14	48'	15' Lt.
"0"52+17	"0"52+36	28'	17' Rt.
"0"52+41	"0"52+69	28'	17' Rt.

REMOVAL OF BUILDINGS

STATION	OFFSET	SIZE	SQUARE FEET	REMARKS
"0"14+24	23' Lt.	27'×17'	459	Frame shed
"0"19+12	9' Lt.	59'×60'	3540	warehouse on piling
"0"19+93	14' Lt.	18'×35'	630	conc. foundation & pad
"0"20+57	21' Lt.	25'×32	800	garage
"0"24+86	14' Lt.	12'×19'	228	shed
"0"27+40	14' Lt.	14'×22	308	garage
"0"29+89	12' Lt.	14'×25'	350	garage on piling
"0"30+43	6' Lt.	15'×23'	345	garage on piling
"0"31+56	45' Lt.	21'×42'	882	frame boathouse on piling
"0"31+99	21' Lt.	15'×20'	300	garage
"0"32+52	14' Rt.	14'×19'	266	frame garage
"0"36+14	21' Lt.	13'×23'	299	frame garage
"0"35+95	Planks 22' Lt.	12'×21'	252	garage foundation
"0"36+95	22' Rt.	14'×22'	308	garage
"0"38+11	19' Lt.	13'×22'	286	garage
"0"42+28	14' Lt.	31'×38'	1178	frame house on piling
"0"42+72	10' Lt.	19'×33'	627	frame house on piling
"0"43+05	15' Lt.	14'×22'	308	garage on piling
"0"47+26	28' Lt.	23'×30'	690	frame house on piling
"0"49+10	8' Lt.	32'×52'	1664	frame warehouse on piling

CULVERT REMOVAL SUMMARY

STATION	SIZE	OFFSET
"0"47+23	8"×8'	10' Lt.
"0"47+32	10"×57'	℄
"0"48+03	12"×48'	5' Rt.
"0"55+84	18"×53'	16' Lt.
"0"56+34	18"×24'	30' Lt.
"0"56+35	18"×55'	℄
"0"56+45	18"×25'	48' Lt.
"0"56+57	18"×125'	24' Lt. to 89' Rt.
"0" St. 50+22	18"×8'	20' Lt.
H St. 57+34	12"×46'	
"H" St. 57+59	12"×36'	
"O" 9+61	18"×92'	30' Rt.
"O" 47+75	18"×26'	50' Rt.
Total	2,477 L.F. ~~2,379 L.F.~~	

REMOVAL OF PLANK DOCK

STATION	OFFSET	SIZE	SQUARE FEET
"0" 13+91	33' Lt.	9'×9'	81
"0"16+25	25' Lt.	10'×18'	180
"0"18+94	21' Lt.	14'×22'	308
"0"19+21	5' Lt.	19'×9'	171
"0"19+46	5' Lt.	18'×42'	756
"0"22+83	31' Lt.	10'×11'	110
"0"24+69	8' Lt.	45'×17'	765
"0"31+99	12' Lt.	9'×13'	117
"0"36+31	22' Lt.	18'×22	396
"0"37+51	18' Lt.	9'×7'	63
"0"40+76	29' Lt.	12'×21'	252
"0"43+75	27' Lt.	40'×10'	400
"0"57+64	2' Lt.	10'×40'	400

LOG RETAINING WALL REMOVAL

STATION	OFFSET	LENGTH
"0"13+20	20' Lt.	20'
"0"14+84	24' Lt.	21'
"0"15+21	29' Lt.	45'
"0"15+40	22' Lt.	11'
"0"18+94	38' Lt.	12'
"0"30+80	24' Rt.	5'
"0"32+79	18' Lt.	17'
"0"43+19	18' Rt.	18'
"0"43+23	15' Lt.	16'
"0"43+49	18' Lt.	12'
"0"43+67	20' Rt.	28'
"0"45+00	20' Rt.	38'
"0"31+87 Added	29' Lt.	9'

CONCRETE RETAINING WALL REMOVAL

STATION	OFFSET	LENGTH
"0"29+45	21' Rt.	23'
"0"29+72	22' Rt.	32'
"0"45+32	20' Rt.	53'
"0"45+89	19' Rt.	50'

CONCRETE PAVEMENT REMOVAL

STATION	TO STATION	WIDTH	SQUARE YARD
"0"51+88	"0"53+78	varies	~~670~~ 774'
"0"53+78	"0"55+00	varies	~~667~~ 488'
"0"55+00 "0"58+~~57~~05		varies	764' } 1,304'
"0"57+05	"0"58+60.80	varies	597' }
"0"52+88	"0"53+25		~~2,698~~ 28.66
"H" 51+40	Parking Area		13.83
TOTAL			2,608.49'

BRIDGE REMOVAL

STATION	WIDTH	OFFSET	SQ. FT.
"0"43+39	30'	℄	300
"0"49+77 to "0"51+88	varies -	97' Rt. ℄	9,019

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	4	175

DEMOLITION PLANS

BEGINNING OF PROJECT
S-0937(10)
STA. "L" 8+"0" 9+24.00

All existing improvements indicated with ▨ shall be removed and disposed of in accordance with Section 202 of the specifications See Sheet No. 3 for Summary.

See Standard Drawing A-1 for Symbols.

Ferry Terminal

For Intersection Details See sheet Nos. 21 & 30.

Frame house on piling

Frame bldg.

Line of Pavement Removal

R/W

Existing Ditch

Frame boat house on piling

Wooden sidewalks

Log retaining wall

Fuel Tank

Frame warehouse on piling with wooden drive

to be removed by others

R/W

Fence to be removed by others

Garage on piling

Wooden sidewalk

Remove and dispose of fence

Concrete sidewalk

Garage to be removed by others

Wooden sidewalk

1 story frame bldg. (motel)

1 story frame bldg. (motel)

Frame house w/ crawl space

Garage

Garage

Frame house w/ crawl space

BAKER STREET

Frame house w/ crawl space

Frame house on concrete basement

MATCH LINE

"0" 14+40.00

9 10 11 12 13 14

Frame garage

Frame warehouse on piling

Metal bldg.

Frame shed

Plank dock

2½ story frame house on piling

Log retaining wall

Log retaining wall

Frame house on piling

R/W

Wood. Walks

Wooden sidewalk

"0" 14+40.00

15 16 17 18

Note: The dock and platform at Standard Oil Co. shall be removed only to facilitate new construction.

STANDARD OIL CO.

Log retaining wall timber deck

Frame warehouse w/ metal siding on piling

Wood ramp

Garage to be removed by others concrete foundation to be removed by the contractor

Concrete Pad

Concrete Pad

Pumping station

Concrete pad

Wooden sidewalk

Log retaining wall

Oil & gas pipelines

Flagpole

Frame bldg. w/ crawl space

Oil tank

MATCH LINE

R/W

Wood Porch

MATCH LINE

R/W

Concrete sidewalk

Frame house w/ concrete basement & garage

2 story frame house w/ garage

1½ story frame house w/ concrete garage & basement

STANDARD OIL CO.

N

K&E 10 1252 5-71 45998

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	4	175

DEMOLITION PLANS

N

STANDARD OIL CO.

Frame warehouse on piling

Plank dock

Wooden sidewalk

Storage shed

Timber dock & causeway

Garage

Oil & Gas pipelines

Shed

R/W

AVENUE

SEVENTH

SIXTH

MATCH LINE

"Q" 22+00.00

"Q" 26+00.00

21

22

23

24

25

6" Subdrain

Frame house w/ basement & garage

Wooden sidewalk

STANDARD OIL CO.

Frame house on concrete basement

2 story frame house on concrete basement & garage

6" C.M.P.

Concrete loading pad & curb

Wooden Sidewalk

2 story frame house on concete foundation

Planked Street

Storage Shed

2 story frame house on piling

Buried Oil Tank

Frame house on piling

Shed

Garage

Remove and dispose of fence

"Q" 28+00.00

"Q" 31+50.00

27

28

29

30

31

Boathouse on piling

Garage on piling

Garage on piling

2 story frame house on concrete foundation

Existing concrete steps

Concrete retaining wall

Log retaining wall

Concrete steps

Concrete sidewalk

Garage (dirt floor)

Garage

Remove and dispose of fence

2 story frame house

1½ story frame house w/ crawl space

1½ story frame house w/ garage & basement

1½ story frame house w/ garage & basement

1½ story frame house on concrete basement

2 story frame house on concrete basement

51

FIFTH

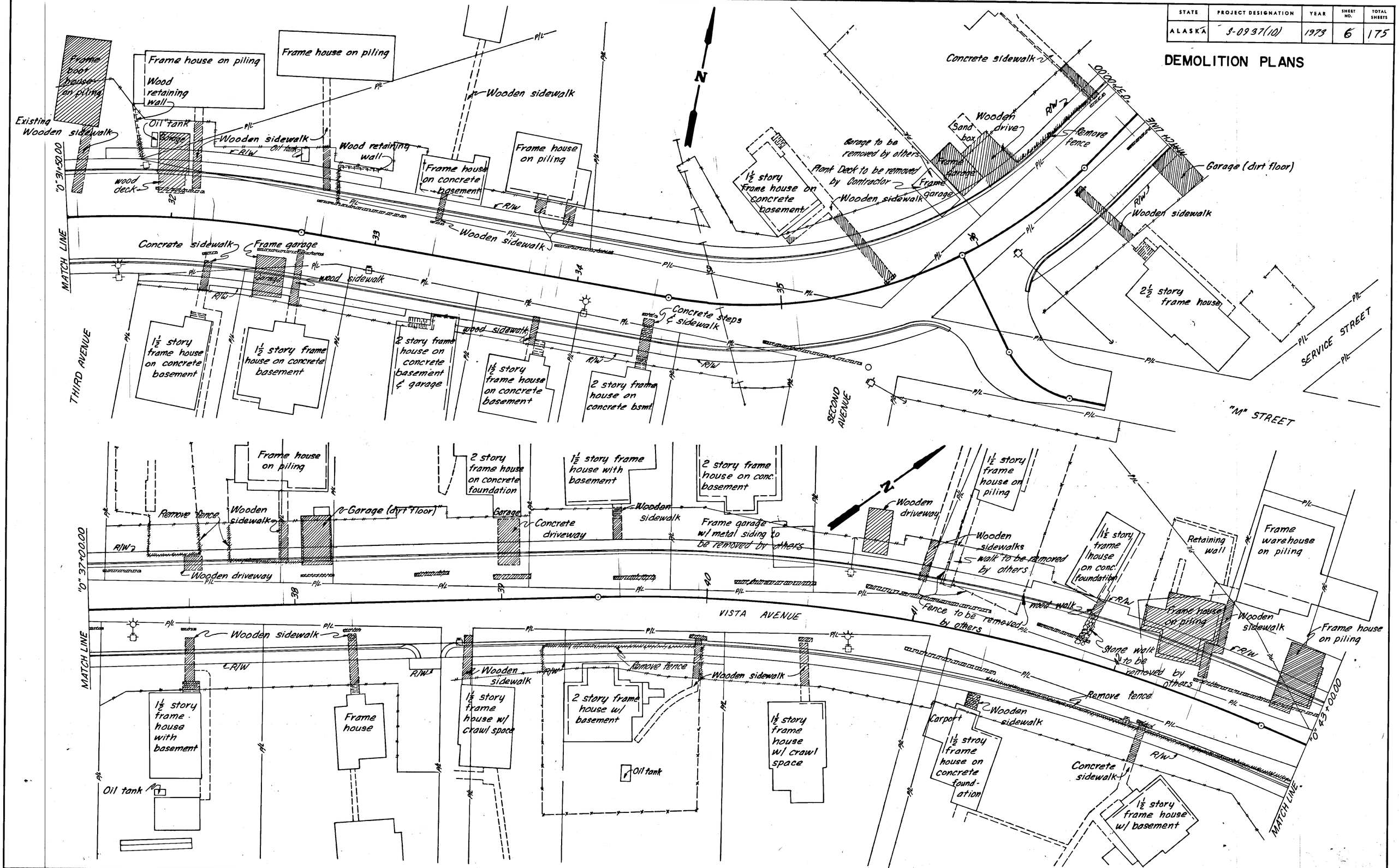
FOURTH

THIRD AVENUE

K&E 10 1252 5-71 45998-

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	6	175

DEMOLITION PLANS



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	16	175

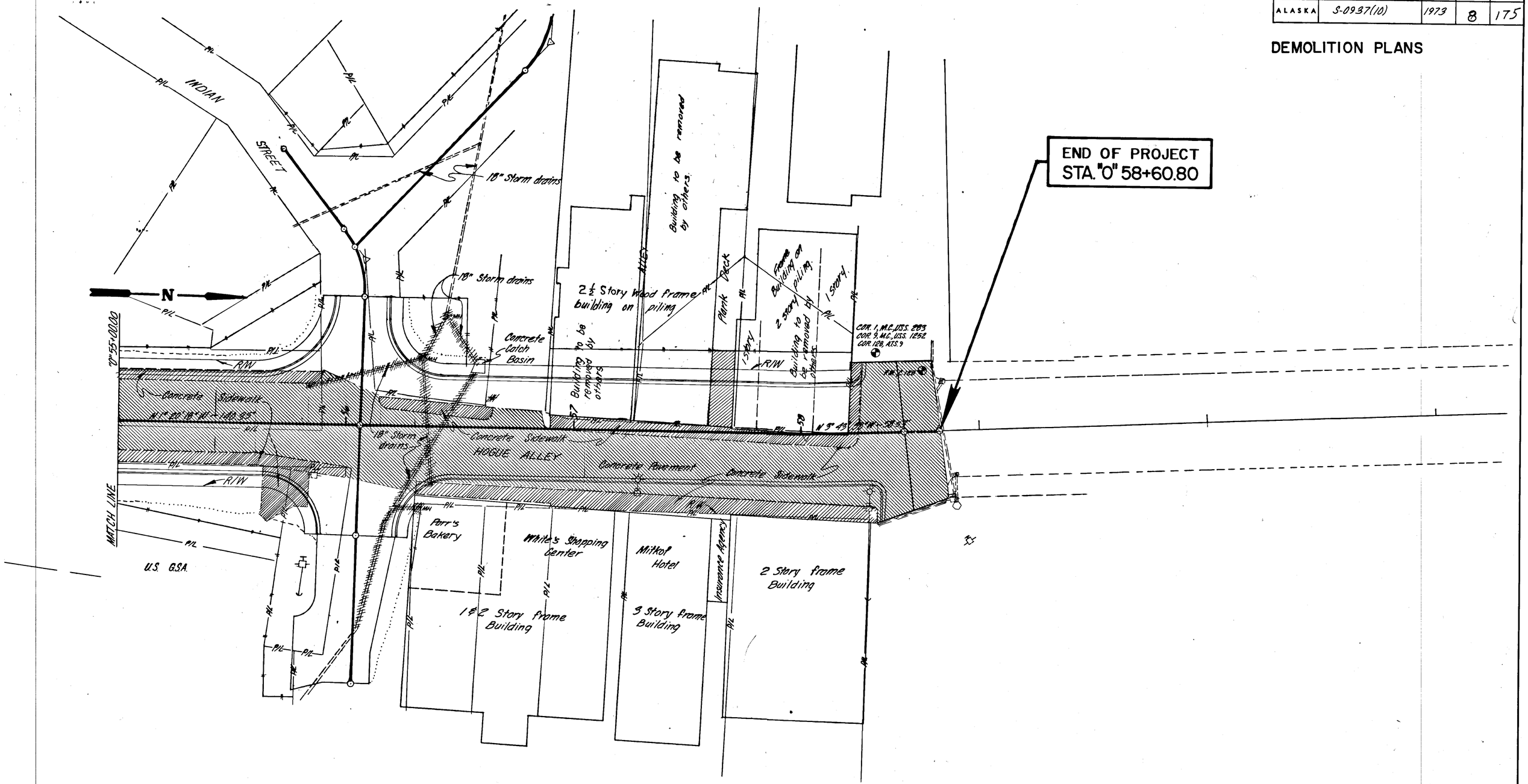
DEMOLITION PLANS

N

Patio
storage shed
Float
Existing Retaining Wall
Frame house on piling
Frame house on piling
INDIAN STREET
R/W
P/L
Plank retaining wall
piling
Timber Bridge
Fence to be removed by others
Match Line
Piling
Guard posts
Existing Wooden Sidewalk
Existing Wooden Retaining Wall
Existing Concrete steps
1½ story frame house w/basement
Carport
1½ story frame house on piling
Existing Wooden sidewalk
car port
1½ story frame house on piling
Frame house w/ crawl space
1½ story frame house w/ crawl space
Existing Wooden Sidewalks
Fence to be removed by others
Fence to be removed by others
carport to be removed by others
Existing Concrete Retaining Wall
Frame house w/ concrete basement & garage
Frame house on piling
Existing Wooden Sidewalk
remove fence
HAMMER SLOUGH
LUMBER STREET
Match Line
Frame warehouse on piling
HAMMER SLOUGH
Existing Wooden Bridge on piling
Walkway
Wood handrails
Wood deck on piling
BIRCH
concrete Building
Municipal Building & Fire Station
City Clerk & Library
Gravel parking area
Flag Pole to be removed by others
Chevron Sign to be removed by others
concrete sidewalk
ALLEY
HOGUE
concrete pavement
concrete sidewalk
concrete sidewalk
remove fence
Power Plant Steel Building
Power Plant Sheet metal covered wood frame building
"H" STREET
New GSA Service building
Match Line
Match Line

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	8	175

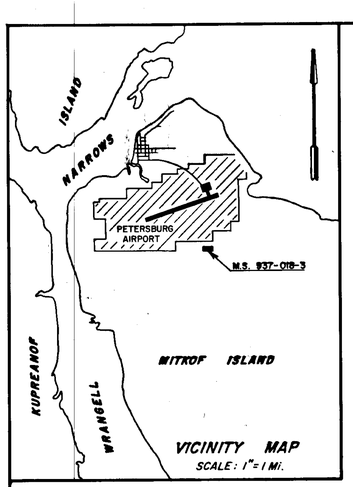
DEMOLITION PLANS

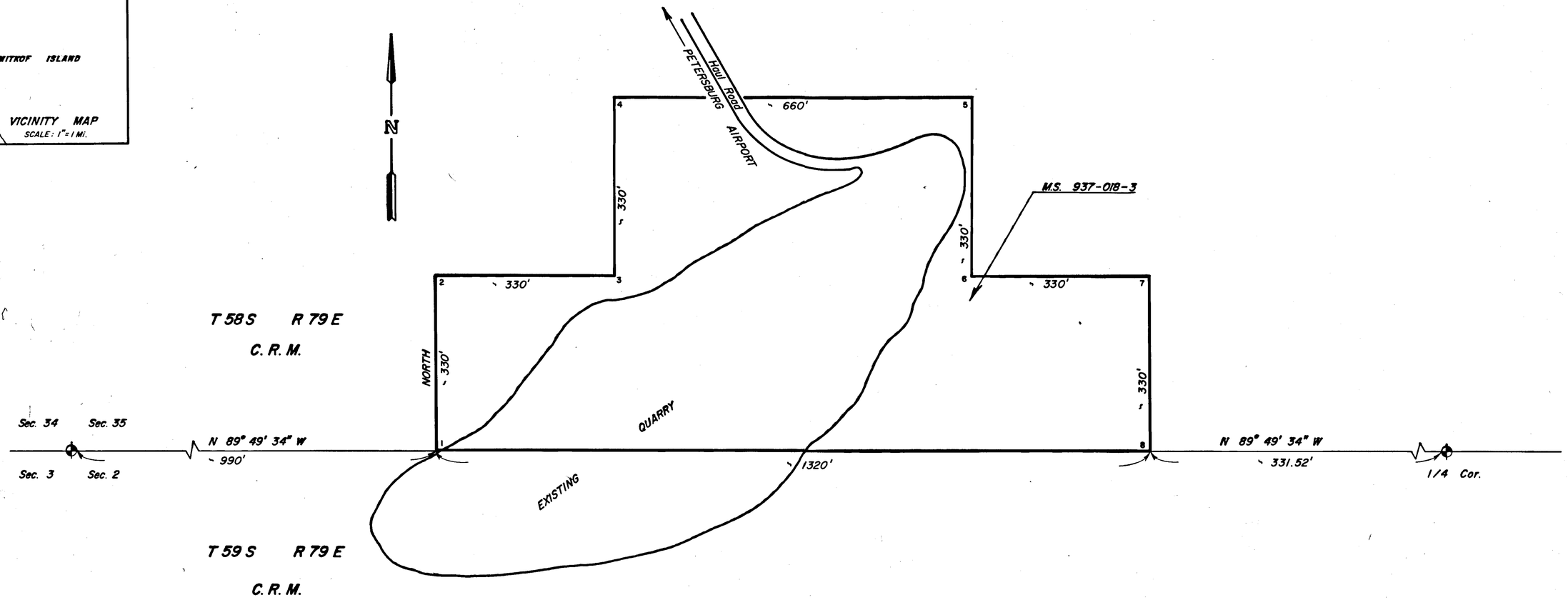


STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(12)	1973	9	175

STATE FURNISHED MATERIAL

SITE LOCATION





K&E 10 1252 5-71 45998

ESTIMATE OF QUANTITIES

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937 (10)	1973	10	175

ITEM No	ITEM	UNIT	SHEET NUMBERS 21	22	23	24	25	26	27	28	29	Total
1	Furnishing and Maintaining Engineering Facilities	Lump Sum										All Req'd
110(1)	Mobilization	Lump Sum										All Req'd
111(1)	Temporary Erosion and Pollution Control	Cont. Sum										All Req'd -0-
112(1)	Training Program in accord with FHWL order Interim 7-2(2)	Cont. Sum										All Req'd Cont. Sum
113(1)	Flagging	Man-Hrs.										~~5000~~ 6,643.5
201(3B)	Clearing Grubbing	Lump Sum										All Req'd
202(1)	Removal of Structures and Obstructions	Lump Sum										All Req'd
202(2)	Removal of Concrete Pavement	Sq. Yds.								1336	1,362	~~2698~~ 2680.3
202(3)	Removal of Concrete Sidewalks	Sq. Yds.	10	2	0	6	16	7	11	371	358	791
202(4)	Removal and Disposal of Culvert Pipe	Lin. Ft.	311	251	317	303	319	375	213	0	290	~~5,377~~ 2,559
202(9)	Removing Existing Structures&Maintaining Traffic	Lump Sum										All Req'd
203(3)	Unclassified Excavation	Cu. Yd.	4755	6,486	6,124	5,357	9,296	12,915	5,318	2,657	1,925	~~54,833~~ 50,698
203(5B)	Borrow	Ton	9,041	12,915	11,113	10,565	15,701	22,669	14,709	27,414	1,798	~~125,925~~ 133,159
206(1)	Class 1 Excavation for Structures	Cu. Yd.	94	83			581	175	215	341		~~1489~~ 2,138.5
301(1)	Crushed Aggregate Base Course, Grading D-1	Ton	950	833	953	872	858	894	1,004	846	615	~~7825~~ 13,164
304(1)	Subbase Grading A	Ton	1108	1230	1328	1243	1205	1243	1436	1452	1,003	11248
401(1)	Hot Asphalt Pavement	Ton	489	429	490	448	441	459	517	469	317	~~8098~~ 4978.2
401(2)	AR-10 Asphalt Cement	Ton	36.2	31.7	36.3	33.2	32.6	34.0	38.3	34.3	23.5	~~303.3~~ 272.9
501(1)	Class A Concrete	Lump Sum										All Req'd
503(1)	Reinforcing Steel	Lump Sum										All Req'd
505(3)	Structural Steel piles furnished and Driven	Lin. Ft.								872		~~872~~ 956
505(8)	Structural Steel Sheet Piles	Sq. Ft.							724			~~724~~ 719
506(2)	Treated Timber	MBM	1.421	2.011	1.945	0.331	1.348	1.495	0.432	2.900		~~11883~~ 12,515
507(1)	Metal Bridge Railing	Lin. Ft.								460		416 619
510(1)	Metal Bin Wall	Sq. Ft.				1773						1773
602(1)	120" Aluminum Structural Plate Pipe	Lin. Ft.							74			74
603(13E)	18" Corrugated Aluminum Pipe	Lin. Ft.	82	192	292	274		146	176	252	226	~~7640~~ 1815
603(13G)	24" Corrugated Aluminum Pipe	Lin. Ft.	230	148	82				74		92	~~666~~ 620
603(13H)	30" Corrugated Aluminum Pipe	Lin. Ft.	162	12								~~174~~ 170
603(13I)	36" Corrugated Aluminum Pipe	Lin. Ft.		82								~~82~~ 70
603(14A)	50"x31" Corrugated Aluminum Pipe Arch	Lin. Ft.			72							~~72~~ 18
603(14B)	72"x44" Corrugated Aluminum Pipe Arch	Lin. Ft.		80								80
603(22E)	18" Pipe Conduit	Lin. Ft.	54		38	250	606	186	34	42		~~1210~~ 1247
603(22G)	24" Pipe Conduit	Lin. Ft.					50			40		~~90~~ 438
603(22I)	36" Pipe Conduit	Lin. Ft.				104						~~104~~ 103
604(1)	Storm Sewer Manhole	Each				1	1				2	4
604(5A)	Type A Inlet	Each	4	4	2	4	3	4	6	4	6	~~37~~ 34
604(5B)	Type B Inlet	Each	1		1		1					~~3~~ 4
604(7A)	24" CMP Inlet	Each		5	2	4	3		3		2	~~18~~ 18
604(7B)	36" CMP Inlet	Each		1								~~7~~ 4
605(6)	Subdrain Connections	Each	4	5	2	3	1	2				~~7~~ 7
606(1)	Beam Type Guardrail, Type 1 Post	Lin. Ft.					125	6	156.5			287.5
608(1A)	Concrete Sidewalk 4 inch depth	Sq. Yd.	422	481	519	391	548	546	620	427	536	4,490 4245.2
608(1B)	Concrete Sidewalk 6 inch depth	Sq. Yd.	97	158	116	168	96	163	44	74		916 1183.3
609(2)	Curb and Gutter, Barrier Type	Lin. Ft.	1044	1,114	1170	1110	409	1195	1,239	1,040	698	9719 9624.3
614(1)	Survey Monuments	Each	6	2	3	5	4	2	5	3	5	35 32
614(2)	Monument Cases	Each	6	2	3	5	4	2	5	3	5	35 32
615(1)	Standard Signs	Sq. Ft.	39.25	6.25	10.05	9.97	9.02	6.25	28.28	22.98	36.34	165.39
618(1)	Seeding	MSF	3.0	7.5	4.5	5.5	4.0	6.0	5.0	8.0	1.0	445
618(2)	~~Water for Maintenance~~	~~MG~~										~~3.8~~ Deleted
620(1)	Topsoil	MSF	3.0	7.5	4.5	5.5	4.0	6.0	5.0	8.0	1.0	445
627(1)	Watering	MG										~~30~~ 133
660(3)	Highway Lighting System Complete	Lump Sum										All Req'd
670(1)	Painted Traffic Markings	Lump Sum										All Req'd
672(1)	Standard Oil Line Relocation	Lump Sum										All Req'd
672(2)	Union Oil Line Relocation	Lump Sum										All Req'd
604(6)	Catch Basin	Each					2					2
625(1)	Pipe Handrail	L.F.		44				38	7			~~89~~ 91
501(1) "A"	Class "A" Concrete Bridge	L.S.										All Req'd
503(1)	Reinforcing Steel Bridge	L.S.										All Req'd
506(2)	Treated Timber	L.S.										All Req'd
401(3) "B"	Membrain Waterproofing	Sq. Yd.										~~387~~ 387
501(3)	Class "A" Concrete (Bridge)	L.S.										All Req'd
501(5)	Class A-A Concrete (Bridge)	L.S.										All Req'd
502(1)	Prestressed Concrete Girders	Ea.										8
503(1)	Reinforcing Steel (Bridge)	L.S.										All Req'd

ESTIMATE OF QUANTITIES

STATE	PROJECT	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937-(10)	1973	11	175

ITEM No	ITEM	UNIT	SHEET NUMBERS 3	4	5	6	7	8	9	10	11	TOTAL	
G26(1A)	8-INCH SEWER CONDUIT	L.F			517	596	729			216		~~2058~~	2287
G26(1B)	10-INCH SEWER CONDUIT	L.F								122	378	~~500~~	265
G26(1C)	12-INCH SEWER CONDUIT	L.F		20							40	~~60~~	30
~~G26(1D)~~	~~18-INCH SEWER CONDUIT~~ Deleted EWO #27	L.F									41	41	Deleted EWO #27
G26(2)	6-INCH SEWER SERVICE CONDUIT	L.F	193	133	207	294	354			98	277	~~556~~	2904
G26(3)	STANDARD MANHOLES	EACH			2	3	3			1	2	~~1~~	10
G26(4)	STANDARD CLEAN-OUTS	EACH					1			1		~~2~~	3
G26(5)	SEWER C.S.P CROSSING	L.S.							L.S.			~~All Req'd~~	L.S.
G28(2A)	6-INCH CAST IRON (D.I) WATER CONDUIT CLASS 2	L.F	87		52	56	62		56	238	231	~~782~~	833
G28(2B)	8-INCH CAST IRON (D.I) WATER CONDUIT CLASS 2	L.F	510	560	600	550	532	600	468			~~3820~~	3945
G28(2C)	10-INCH CAST IRON (D.I.) WATER CONDUIT CLASS 2	L.F							132	430		562	
G28(5)	FIRE HYDRANT ADJUSTMENT	EACH				1						1	
G28(6)	FIRE HYDRANT INSTALLATION	EACH	1		1		1	1	1	1	2	8	
G28(7)	FIRE HYDRANT RELOCATION	EACH				1						1	
G28(8)	FIRE HYDRANT REMOVAL	EACH	1					1	1	1	1	5	
G28(9A)	3/4-INCH WATER SERVICE CONNECTION	EACH	9	7	8	2	12	18	5	2		~~63~~	60
G28(9B)	1-INCH WATER SERVICE CONNECTION	EACH	3	2					2		3	~~10~~	13
G28(9C)	2-INCH WATER SERVICE CONNECTION	EACH		1	1	1				2		5	
G28(10A)	INSTALL 6 INCH GATE VALVE	EACH	2		1	1	1		2	2	2	11	
G28(10B)	INSTALL 8 INCH GATE VALVE	EACH			1		1		1			~~3~~	7
G28(11)	ADJUSTMENT OF VALVE BOXES	EACH									3	~~3~~	8
G28(12A)	3/4-INCH SERVICE PIPE	L.F	325	173	264	8	333	408	20	104		~~1635~~	1682.5
G28(12B)	1-INCH SERVICE PIPE	L.F	108	59					104		138	~~409~~	689.8
G28(12C)	2-INCH SERVICE PIPE	L.F		4	4	4				55		~~67~~	72
G28(13)	BRIDGE CROSSING	L.S.								L.S.		L.S.	
G28(14)	WATER C.S.P CROSSING	L.S.							L.S.			L.S.	

CH2M HILL ALASKA
ANCHORAGE • JUNEAU

CITY OF PETERSBURG, ALASKA
PETERSBURG THRU-ROUTE
PHASE I
FERRY TERMINAL TO "F" ST.
UTILITIES
ESTIMATE OF QUANTITIES

DES. W.K.E	SHEET 2
DR D.V.K.	OF
CK W.K.E	DATE 8-15-73
RN J3082.01	SCALE: AS SHOWN
DRAWING NO.	J3082.01-2

ESTIMATE OF QUANTITIES

POWER

STATE ALASKA | PROJECT S-0937(10) | YEAR/HT OF 73 12 175

ITEM NO.	ITEM	UNIT	Sheet 1	Sheet 2	Sheet 3	Sheet 4	Sheet 5	Sheet 6	Sheet 7	Sheet 8	Sheet 9	Sheet 10	Sheet 11	Sheet 12	Sheet 13	Sheet 14	TOTAL		
681	Wood Poles																		
(1a)	30 Ft. Class 5	EA.		1	1	2	2	4	2	2							~~15~~	15	
(1b)	30 Ft. Class 4	EA.		1	2	1		1	2	1	1						9		
(1c)	45 Ft. Class 2	EA.		2	4	5	4	5	4	4	1					2	~~32~~	36	
(1d)	50 Ft. Class 2	EA.								1							~~5~~	4	
(1e)	55 Ft. Class 2	EA.										2			4		~~13~~	9	
(2a)	D.E. Pole w/steel Push Brace	EA.									1						1		
(2b)	Wood Pole supported by Piles	EA.									1						1		
681	Gravel Backfill for Poles																		
(3a)	Setting Dept. plus 1 ft.(TA-5)	EA.		4	7	8	6	6	8	6							~~85~~	70	
(3b)	10 Ft. Total Depth (TA-5A)	EA.						1									~~1~~	0	
(3c)	12 Ft. Total Depth (TA-5B)	EA.						1									1		
(3d)	14 Ft. Total Depth (TA-5C)	EA.						1									1		
(3e)	16 Ft. Total Depth (TA-5D)	EA.						1									1		
(3f)	Gravel Backfill for Anchors	EA.		5	6	4	7	11	6	11	1						~~91~~	81	
(4)	Steel Crossarm	EA.										2					2		
681	A.S.C. Pri Dist. Units																		
(5a)	CCA - 1A	EA.		1	2	1	1	2	2								9		
(5b)	CCA - 1B	EA.									2						2		
(5c)	CCA - 1C	EA.								1		1			1		~~5~~	4	
(5d)	CCA - 1D	EA.								1							1		
(5e)	CCA - 2	EA.										1					~~3~~	2	
(5f)	CCD - 1	EA.		2								4					~~13~~	9	
(5g)	CCD - 2	EA.													2		~~6~~	4	
(5i)	CCD - 4	EA.								2							2		
(5j)	CCD - 5	EA.									2						~~5~~	3	
(5k)	CCD - 8	EA.		1						1							~~7~~	6	
(5l)	CCT - 1A	EA.		1	2	4	3	3	2	3					1	3	~~26~~	23	
(5m)	CCT - 1B	EA.										1			2		~~3~~	1	
(5n)	CCT - 2A	EA.													3		~~4~~	1	
(5o)	CCT - 2B	EA.										1					~~6~~	5	
(5r)	CCX - 2	EA.										1					1		
(6a)	Openwire Pri. Dist. A7	EA.			1			1	1	1							~~10~~	7	
(6b)	Openwire Pri. Dist. A8	EA.					1										~~4~~	3	
(7)	A.S.C. Spacer Assembly	EA.		14	13	25	24	23	24	25	27	22			30	20	~~347~~	324	

ESTIMATE OF QUANTITIES

POWER

STATE ALASKA | PROJECT S-0937(10) | YEAR/HT OF 73 13 175

ITEM NO.	ITEM	UNIT	Sheet 1	Sheet 2	Sheet 3	Sheet 4	Sheet 5	Sheet 6	Sheet 7	Sheet 8	Sheet 9	Sheet 10	Sheet 11	Sheet 12	Sheet 13	Sheet 14	TOTAL	
681	O.H. Cond. A.S.C. 5KV Alum.																	
(8a)	336.4 MCM	L.F.								840	1143						~~1977~~	1986
(8b)	E4/0 AWG	L.F.		1569	1641	1773	1677	1770	1758	1803	1143	2412			4540	750	~~20835~~	29451
(8d)	Triplex AAAC - #2 AWG	L.F.		58	15	60	181	159	229	140							~~702~~	1666
(8e)	Triplex AAAC - #1/0 AWG	L.F.		222	393	388	123	360	443	507	10						~~4446~~	2796
(8f)	Quadruplex AAAC - #1/0	L.F.			165												~~165~~	716
681	Transfer Existing Line																	
(9a)	3 Ø #1/0 A.S.C.	EA.										2					~~7~~	9
(9c)	Triplex / Quad #1/0 or smaller	EA.		1	1	2	2	2	2								~~8~~	16
681	Guy Units																	
(10a)	E1-3A	EA.		3	4	4	7	7	4	2							~~31~~	35
(10b)	E1-3B	EA.						1		2					1		~~4~~	8
(10c)	E1-4A	EA.		2	2			1	2								~~5~~	8
(10d)	E1-4B	EA.						2		7	1	8			5	1	~~24~~	38
(10e)	E2-3A	EA.		1	2			1	2								~~3~~	10
(10f)	E2-3B	EA.								2	2				1		~~5~~	9
(10g)	E2-4A	EA.				1											1	
681	Anchor Units																	
(12a)	F1-4	EA.		5	6	4	7	9	6	3					1		~~45~~	49
(12b)	F1-5	EA.						2		5		6			1		~~14~~	22
(12d)	F3-1	EA.								3	1	2			4	1	~~11~~	20
(13)	O.H. Dist. Transformer (Instal)	EA.		1	3	4	2	2	3	2	1	1			1		~~19~~	23
(14)	Grounding Assembly	EA.		2	2	2	2	2	2	2	2	2			1		~~17~~	24
(15)	Secondary Assembly	EA.		4	8	7	7	12	12	8		1					~~59~~	72
(16a)	Service Assembly	EA.		9	6	8	4	11	19	9	1	1					~~72~~	96
(16b)	Transfer Service	EA.		7	4	8	3	12	14	6							~~74~~	87
(17)	Pole Riser Assembly	EA.									3	4					~~7~~	9
(18)	Underground Vault	EA.									2						~~2~~	1
681	Conduit																	
(19a)	Rigid Steel Galv. 5"	L.F.									25						~~26~~	49
(19b)	Rigid Steel Galv. 4"	L.F.									65	110					~~175~~	225
(19c)	Rigid Steel Galv. 3"	L.F.									30						~~30~~	40
(19f)	PVC 5"	L.F.									87						~~82~~	85
(19g)	PVC 4"	L.F.									1164	704					~~1868~~	2475
(19h)	PVC 3"	L.F.									320						~~110~~	210
(19i)	PVC 2"	L.F.									8						~~8~~	0

ESTIMATE OF QUANTITIES

POWER

STATE PROJECT — ALASKA S-0937(10) — YEAR OF — 1973 14 175

ITEM NO.	ITEM	UNIT	Sheet 1	Sheet 2	Sheet 3	Sheet 4	Sheet 5	Sheet 6	Sheet 7	Sheet 8	Sheet 9	Sheet 10	Sheet 11	Sheet 12	Sheet 13	Sheet 14	TOTAL	
681	Conductor 5 KV Shielded																	
(20a)	1000 MCM Alum.	L.F.									360						360	
(20b)	500 MCM Alum.	L.F.									1074	3196					~~4270~~	4242
(20c)	#2 AWG Alum.	L.F.									320						~~340~~	340
681	Conductor 600 V																	
(21a)	#4/0 Alum.	L.F.									120						120	
(21b)	#1/0 Alum.	L.F.									500	1000					~~1414~~	1414

ESTIMATE OF QUANTITIES (NEW RECONDUCTORING) POWER

STATE PROJECT — ALASKA S-0937(10) — YEAR OF — 73 15 175

ITEM NO.	ITEM	UNIT	Sheet 1	Sheet 2	Sheet 3	Sheet 4	Sheet 5	Sheet 6	Sheet 7	Sheet 8	Sheet 9	Sheet 10	Sheet 11	Sheet 12	Sheet 13	Sheet 14	TOTAL
681	Wood Poles																
(1a)	Pole 35' Class 5	EA.										1					1
(1b)	Pole 30' Class 4	EA.														1	1
(1d)	Pole 50' Class 2	EA.		1													1
(1e)	Pole 55' Class 2	EA.										2					2
681	Gravel Backfill for Poles																
(3a)	Setting depth plus 1 ft. (TA-5)	EA.		1													1
(4)	Steel Crossarm	EA.										1					1
(5c)	Assembly CCA - 1C	EA.												1			1
(5e)	Assembly CCA - 2	EA.										1					1
(5f)	Assembly CCD - 1	EA.										2					2
(5g)	Assembly CCD - 2	EA.											1	1		1	3
(5k)	Assembly CCD - 8	EA.										2			2		4
(5l)	Assembly CCT - 1A	EA.										1					1
(5m)	Assembly CCT - 1B	EA.											1				1
(5n)	Assembly CCT - 2A	EA.													1		1
(5o)	Assembly CCT - 2B	EA.											3	1			4
(5p)	Assembly CCT - 3	EA.										2					2
(5q)	Assembly CCX - 1	EA.											4	2			6
(7)	Aerial Cable Spacer	EA.										19	45	23	9	6	102
(8b)	#4/0 AWG 5KV	L.F.										1416	3516	1803	1080	543	8358
(8c)	#1/0 AWG 5KV	L.F.										900					900
(9a)	3 Phase # 1/0 Aerial Spacer	Span										2	4	3			9
(9c)	Triplex - Quad #1/0 - Smaller	EA.										2					2
(10b)	Guy Assembly E1 - 3B	EA.										1			2		3
(10d)	Guy Assembly E1-4B	EA.										7		4	2	1	14
(10f)	Guy Assembly E2 - 3B	EA.												1		1	2
(12b)	Anchor Assembly F1 - 5	EA.										3		1		1	5
(12d)	Anchor Assembly F3 - 1	EA.										5		3	2		10
(14)	Grounding Assembly M2 - 1	EA.										1					1
(15)	Secondary Assembly	EA.										2					2
(16a)	Service Assembly	EA.										2					2
(16b)	Transfer Service	EA.										2					2
(17)	Pole Riser Assembly	EA.										2					2
(19b)	Rigid Steel 4" Conduit	L.F.										70					70
(19g)	PVC 4" Conduit	L.F.										400					400

ESTIMATE OF QUANTITIES (PARTICIPATING) TELEPHONE

STATE: ALASKA | PROJECT: S-0937(10) | YEAR 73 | SHT 16 | OF 175

ITEM NO.	ITEM	UNIT	Sheet 1	Sheet 2	Sheet 3	Sheet 4	Sheet 5	Sheet 6	Sheet 7	Sheet 8	Sheet 9	Sheet 10	Sheet 11	Sheet 12	Sheet 13	Sheet 14	TOTAL
680	Aerial Cable & Wire																
(1a)	300 pr. #22	L.F.								155							056
(1b)	200 pr. #22	L.F.					526	590	586	436							2149
(1d)	6 pr. #19	L.F.		130		60			170	110	230						797
(1e)	3 pr. #19	L.F.				45	136	95									290
(1f)	Dist. Wire 2 pr. #19	L.F.		720	101	540	098	1084	832	844							45
(1g)	Dist. Wire 1 pr. #18 cwc.	L.F.															5056
680	Transfer existing													0			
(2b)	Span 100 pr. #22	EA.		3	5	5				1							14
(2c)	Span 50 pr. #22	EA.															1
680	Transfer Service (one end)																
(3)	1 to 12 pr.	EA.		1	5	2	8	2	10	6							75
680	RA Cable Closure Assembly																
(6a)	Reliable Type 100 - MC	EA.				1			0	1	1						8
(6b)	Reliable Type 200 - MB	EA.			1	1	2	1	4	4	1						19
680	Splice Assemblies																
(8b)	200 pr. splice	EA.								1							3
(8c)	100 pr. splice	EA.					1			1							1
(8d)	50 pr. splice	EA.															
680	Guys and Anchors																
(10a)	Guy Assembly	EA.		1	2	2	3	3	4	3	2						34
(10b)	Anchor Assembly	EA.				1	2	2		2	1						18
(10c)	Sidewalk Guy Arm	EA.								1							1
680	Wood Poles																
(11a)	30' Class 5	EA.								2							2
(11b)	30' Class 4	EA.								1							1

ESTIMATE OF QUANTITIES TELEPHONE

STATE: ALASKA | PROJECT: S-0937(10) | YEAR 73 | SHT 17 | OF 175

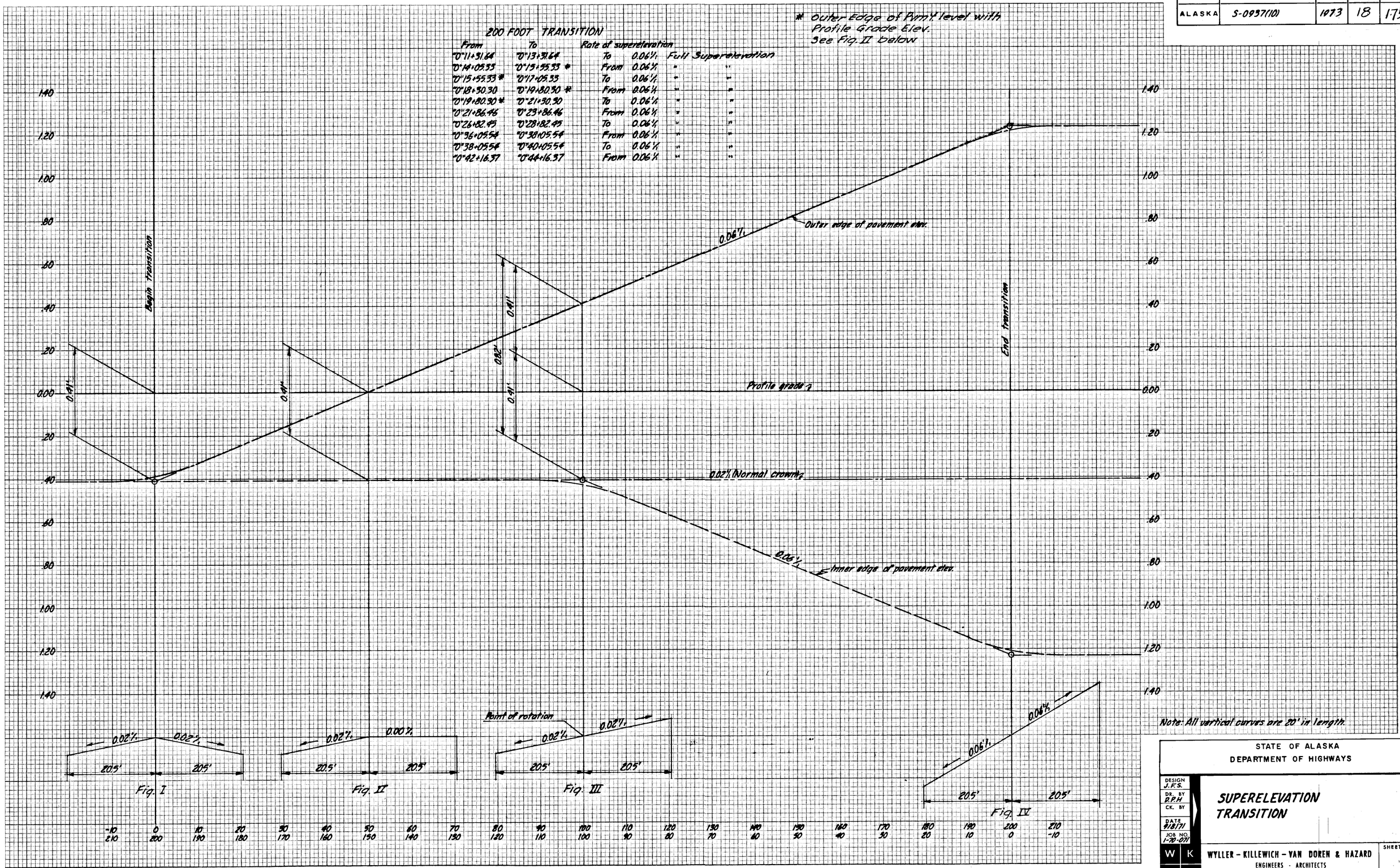
ITEM NO.	ITEM	UNIT	Sheet 1	Sheet 2	Sheet 3	Sheet 4	Sheet 5	Sheet 6	Sheet 7	Sheet 8	Sheet 9	Sheet 10	Sheet 11	Sheet 12	Sheet 13	Sheet 14	TOTAL
680	Aerial Cable & Wire																
(1a)	300 Pr. #22 cu.	L.F.										110	421				531
(1c)	100 Pr. #22 cu.	L.F.												590			590
(1g)	Dist. Wire 1 Pr. # 18 cu.	L.F.										145					145
680	Transfer Existing																
(2a)	Span 300 Pr. #22 cu.	EA.												2			2
(2d)	Span 25 Pr. #22 cu.	EA.					1							2			3
(3)	Transfer Service	EA.										3		1			4
680	U.G. Cable in Conduit																
(4a)	300 Pr. #22 cu.	L.F.									230	310					540
(4b)	50 Pr. #22 cu.	L.F.									120						120
(4c)	25 Pr. #22 cu.	L.F.									150						150
(5)	Precast Concrete Vault	EA.									1	1					2
680	R.A. Cable Closure Assembly																
(6a)	Type 100 MC	EA.									1						1
(6b)	Type 200 MB	EA.									1	1	2				4
680	Splice Case Closure																
	Type 21 - C1	EA.									2	1					3
680	Splice Assemblies																
(8a)	300 Pr. Splice	EA.									2	2	1				5
(8c)	100 Pr. Splice	EA.												1	1		2
(8d)	50 Pr. Splice	EA.									3						3
(8e)	25 Pr. Splice	EA.									2	1		2			5
680	Conduit																
(9a)	4" Rigid Steel	L.F.									49	26					75
(9b)	2" Rigid Steel	L.F.									70						70
(9c)	4" PVC	L.F.									480	380					860
(9d)	2" PVC	L.F.									385						385
680	Guy & Anchor Assemblies																
(10a)	Guy Assembly	EA.										2	1	4			7
(10b)	Anchor Assembly	EA.										2	1	3			6

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	18	175

200 FOOT TRANSITION

From	To	Rate of superelevation		Full Superelevation
"0"11+91.64	"0"13+91.64	To	0.06%	" "
"0"14+09.33	"0"19+99.33 *	From	0.06%	" "
"0"15+55.33 *	"0"17+05.33	To	0.06%	" "
"0"18+30.30	"0"19+80.30 *	From	0.06%	" "
"0"19+80.30 *	"0"21+30.30	To	0.06%	" "
"0"21+86.46	"0"23+86.46	From	0.06%	" "
"0"26+82.45	"0"28+82.45	To	0.06%	" "
"0"36+05.54	"0"38+05.54	From	0.06%	" "
"0"38+05.54	"0"40+05.54	To	0.06%	" "
"0"42+16.37	"0"44+16.37	From	0.06%	" "

* Outer Edge of Pvm't level with Profile Grade Elev. See Fig. II below



Note: All vertical curves are 20' in length.

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

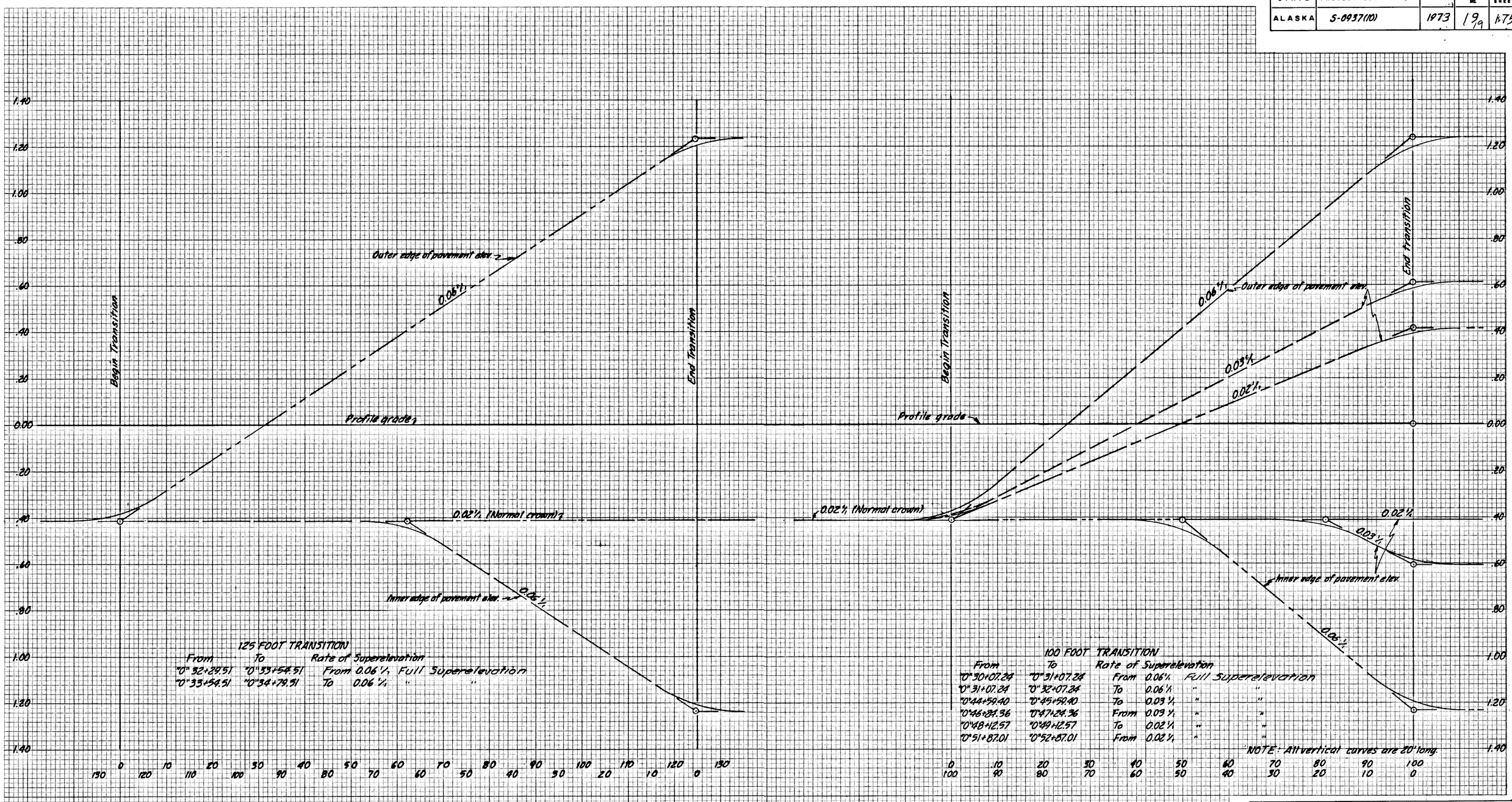
DESIGN J.F.S.
DR. BY D.P.H
CK. BY
DATE 9.13.71
JOB NO. 1-70-071

SUPERELEVATION TRANSITION

WYLLER - KILLEWICH - VAN DOREN & HAZARD
ENGINEERS - ARCHITECTS
JUNEAU, ALASKA

SHEET
OF

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	19	175



125 FOOT TRANSITION

From	To	Rate of Superelevation
"0" 32+29.51	"0" 33+54.51	From 0.06 ½ Full Superelevation
"0" 33+54.51	"0" 34+79.51	To 0.06 ½ " "

100 FOOT TRANSITION

From	To	Rate of Superelevation
"0" 30+07.24	"0" 31+07.24	From 0.06½ Full Superelevation
"0" 31+07.24	"0" 32+07.24	To 0.06 ½ " "
"0" 44+59.40	"0" 45+59.40	To 0.03 ½ " "
"0" 46+24.36	"0" 47+24.36	From 0.03 ½ " "
"0" 48+12.57	"0" 49+12.57	To 0.02 ½ " "
"0" 51+87.01	"0" 52+87.01	From 0.02 ½ " "

NOTE: All vertical curves are 20' long.

NOTE: See previous sheet for method of obtaining superelevation

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

DESIGN J.F.S.
DR. BY D.P.H.
CK. BY
DATE 9/3/71
JOB NO. F-70-071

SUPERELEVATION TRANSITIONS

WYLLER - KILLEWICH - VAN DOREN & HAZARD
ENGINEERS · ARCHITECTS
JUNEAU, ALASKA

SHEET
OF

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	20	175

SUMMARY TABLES

GUARDRAIL SUMMARY

STANDARD PLATE				
Station				Linear Feet
"0"31+73.96	Lt.	"0"32+93.40	Lt.	125.00
"0"42+94.00	Lt.	"0"43+69.00	Lt.	75.00
"0"43+08.50	Rt.	"0"43+96.00	Rt.	87.50
Bridge Rail				
"0"47+22.01	Lt.	"0"50+14.00	Lt.	280.00
"0"49+56.69	Rt.	"0"50+30.00	Rt.	80.00
"0"51+02.00	Lt.	"0"51+68.01	Lt.	60.00
"0"51+02.00	Rt.	"0"51+38.67	Rt.	40.00

MONUMENT SUMMARY

Station	Location	Point	*Monument
"0"9+24.00	℄	B.O.P.	1
"0"9+62.22		P.O.T.	1
"0"10+00.00		P.I.	1
"0"11+35.00		P.O.T.	1
"0"12+81.64		P.C.	1
"0"14+38.50		P.T.	1
"0"16+77.17		P.C.	1
"0"18+88.65		P.T.	1
"0"20+71.95		P.C.	1
"0"22+36.46		P.T.	1
"0"24+04.71		P.O.T.	1
"0"26+58.31		P.O.T.	1
"0"28+32.45		P.C.	1
"0"30+72.94	℄	P.T.	1
"0"30+76.00	±23 Lt.	Existing	1
"0"31+41.54	℄	P.C.	1
"0"32+63.83		P.T.	1
"0"34+45.19		P.C.	1
"0"35+91.07		P.O.C.	1
"0"36+63.94		P.T	1
"0"39+47.14		P.C.	1
"0"42+76.37		P.T.	1
"0"43+98.32		P.O.T.	1
"0"45+29.40		P.C.	1
"0"46+54.36		P.T.	1
"0"48+00.87		P.O.T.	1
"0"48+82.57		P.C.	1
"0"49+31.78		P.O.C.	1
"0"52+17.00		P.T.	1
"0"53+56.22		P.O.T.	1
"0"56+06.25		P.O.T.	1
"0"58+02.27	℄	P.I.	1
~~"0"58+31.00~~	~~±34' Lt.~~	~~Existing~~	~~1~~ Delete
"0"58+54.00	±26' Lt.	Existing	1
"0"58+60.80	℄	E.O.P.	1
TOTAL			35

* Monument case shall be installed at each location.

CURB CUT SUMMARY

Station	Length Lt.	Length Rt.	Station	Length Lt.	Length Rt.	Station	Length Lt.	Length Rt.
"0"9+80		18'/20	"0"23+05		~~14~~'20	"0"37+~~84~~86	~~14~~'20	
"0"10+~~92~~95		14'/20	"0"24+75	~~20~~'26		"0"38+10	~~14~~'20	
"0"11+~~80~~24		14'/19.2	"0"24+~~78~~75		~~24~~'30	"0"38+~~67~~64	~~16~~'22	
"0"12+~~14~~ 14		14'/20.2	"0"25+47		20'	"0"39+04.02	~~14~~'20	
"0"12+~~57~~ 60	~~X~~'20		"0"26+11.~~97~~ 15 Rt.	~~20~~'24	~~20~~'26	"0"39+66	~~14~~'23	
"0"13+~~02~~ 10		20'/26.5	"0"26+56.~~54~~	~~14~~'18		"0"40+~~37~~33	~~18~~'20	
"0"13+~~35~~ 34	~~14~~'20		"0"27+~~75~~ 28	~~14~~'36		"0"40+77	~~18~~'22	
"0"13+~~91~~ 65	~~18~~'20		~~"0"27+52~~	~~14~~'		"0"41+~~20~~17		~~38~~'38
"0"14+~~52~~ 53		14'/21.3	"0"27+~~63~~5		~~14~~'21	"0"41+~~95~~ 60	~~14~~'20	
"0"14+61	~~34~~'41		"0"28+~~16~~25		~~14~~'26	"0"42+50	~~24~~'30	
"0"15+~~89~~86	18'/10		"0"28+70		~~14~~'21	"0"42+~~85~~88	~~14~~'20	
"0"16+31	14'/20		"0"29+~~78~~13		~~14~~'20			
~~"0"16+30~~		~~14'~~	"0"30+~~87~~09		~~24~~'40	"0"43+~~77~~85	~~14~~'20	
"0"16+~~89~~ 17		~~14~~'40	"0"30+~~54~~22	~~24~~'35		"0"45+~~68~~64		~~14~~'22.6
"0"16+71	14'/20		"0"30+77.~~13~~		~~24~~'42	"0"45+88	~~14~~'20	
"0"17+~~24~~20	14'/20					"0"47+~~80~~26		~~14~~'28.8
"0"17+87	14'/26.3		"0"31+~~68~~72		~~14~~'20			
"0"18+00.~~14~~96		~~24~~'30	"0"33+07.08	~~14~~'20		"0"51+98	~~18~~'24	
"0"18+~~75~~80		~~24~~'30	"0"33+98	14'		"0"52+06		~~14~~'24
"0"18+94.~~40~~	14'/20		"0"33+~~20~~38		~~14~~'20	"0"52+~~38~~	14'/22 SP.	
			"0"34+05	~~14~~'20		"0"52+~~88~~52	~~24~~'	
"0"20+~~33~~40	~~34~~'40		"0"34+56		~~14~~'20	"0"53+~~94~~88	~~18~~'24	
"0"20+~~64~~61		~~14~~'20	"0"35+00.~~34~~96		~~14~~'20	"0"37+47		20'
"0"22+~~78~~ 62		~~30~~'26	"0"36+00	~~16~~'27		"0"41+25	20'	
"0"22+85	~~14~~'20		"0"37+00	~~14~~'20		"0"52+97		20'

"0"21+~~31~~~ 20' "0"24+01 "0"33+95 ← 26' "0"51+~~10~~ 30' 20'

CULVERT SUMMARY

STATION	Driveway Culvert	18" Pipe Conduit L.F.	24" C.A.P. Arch L.F.	36" C.A.P. Arch L.F.	50"×31" C.A.P. Arch L.F.	72"×44" C.A.P. Arch L.F.		120" Aluminum S.P.Pipe L.F.	Height of Fill Feet	Skew Angle Degree
"0"9+80 Rt.	x	~~54'~~ 96							2'	
"0"11+91			90'						6'	
"0"19+04						80'			8'	1° Lt. Ahd.
"0"24+96					72'				8'	9° Rt. Ahd.
"6th" 50+80		~~38'~~ 36							1'	23° Rt. Ahd.
"0"25+26			~~80'~~ 82						5'	
"0"30+09 Rt.	x	38'		Delete					3'	
~~"0"30+68 Rt.~~	x	30'		Delete					2'	
"0"31+32				~~108'~~ 113					8'	4° Lt. Ahd.
~~40~~"31+68 Rt.	x	14'		Delete					4'	
"0"43+29								74'	3'	
~~"0"~~50+60			40'	Delete						30° Lt. Ahd.
"0"16+31		108'								added
"0"21+00		80'								10° Lt. Ahd.

For Storm Drainage Details See Sheet Nos. 36 to 42

SIGN SCHEDULE

NO.	STATION	Distance From ℄ Ft. Lt.	Distance From ℄ Ft. Rt.	CODE NO.	LEGEND	Sign Pannel Thickness Area Sq.Ft.	Un-framed	Framed	Size (inches)	Post No. of Posts	Post Type	Post Size	Post Length	Post Embedment	FACING TRAFFIC	REMARKS
1	"0"9+47	58.0		R5-1.30	DO NOT ENTER	6.25		/	30x30	1		2"	13.5'	3'	SB	
2	"0"9+47	58.0		R6-1L	ONE WAY ←	3.00			36x12						EB	Same post as above
3	"0"9+47	58.0		R6-1R	ONE WAY →	3.00			36x12						WB	" " " "
4	"0"11+10	27.0		D3-1.0	MITKOF HWY	2.00			8x36	1		2"	13.5'	3'	NB	*4" Uc. Series C.
5	"0"11+10	27.0		R1-1.30	STOP	6.25			30x30						SB	Same post as above.
6	"0"11+10	27.0		R6-1L	ONE WAY ←	3.00			36x12						EB	" " " "
7	"0"11+10	27.0		R6-1R	ONE WAY →	3.00			36x12						WB	" " " "
8	"0"11+80	28.5		W5-1.30	ROAD NARROWS	6.25			30x30	1		2"	13.5'	3'	WB	
9	"0"11+84		28.5	D1-1.0	PETERSBURG ←	6.50			12x78	2		2"	10.0'	3'	SB	6" Uc. 4" Lc.
10	"0"15+31		29.0	R1-1.30	STOP	6.25			30x30	1		2"	12.5'	3'	NB	*
11	"0"24+33		44.0	D3-1.0	MITKOF HWY	2.00			8x36	1		2"	12.5'	3'	NB	4" Uc. Series C.
12	"0"24+33		44.0	D3-1.0	SIXTH AVE	1.80			8x32						EB	4" Uc. Series C.
13	"0"24+33		44.0	R1-1.30	STOP	6.25			30x30						NB	Same Post as Above
14	"0"26+88		40.0	D3-1.0	MITKOF HWY	2.00			8x36	1		2"	12.5'	3'	NB	4" Uc. Series C.
15	"0"26+88		40.0	D3-1.0	FIFTH AVE	1.72			8x31						EB	4" Uc. Series C.
16	"0"26+88		40.0	R1-1.30	STOP	6.25			30x30						NB	same post as above
17	"0"36+10		33.0	D3-1.0	VISTA AVE	1.67			8x30	1		2"	12.5'	3'	NB	4" Uc. Series C.
18	"0"36+10		33.0	D3-1.0	"M" ST.	1.10			8x20						EB	4" Uc. Series C.
19	"0"36+10		33.0	R1-1.30	STOP	6.25			30x30						NB	same post as above
20	"0"38+73		30.0	R1-1.30	STOP	6.25			30x30	1		2"	12.5'	3'	WB	
21	"0"44+17	38.5		D3-1.0	VISTA AVE.	1.67			8x30	1		2"	13.5'	3'	SB	4" Uc. Series C.
22	"0"44+17	38.5		D3-1.0	INDIAN ST.	1.72			8x31						EB	4" Uc. Series C.
23	"0"44+17	38.5		R1-1.30	STOP	6.25			30x30						SB	same post as above
24	"0"44+17	38.5		R6-1L	ONE WAY ←	3.00			36x12						EB	" " " "
25	"0"44+17	38.5		R6-1R	ONE WAY →	3.00			36x12						WB	" " " "
26	"0"48+00		40.0	D3-1.0	VISTA AVE	1.67			8x30	1		2"	12.5'	3'	NB	4" Uc. Series C.
27	"0"48+00		40.0	D3-1.0	LUMBER ST.	1.72			8x34						EB	4" Uc. Series C.
28	"0"48+00		40.0	R1-1.30	STOP	6.25			30x30						NB	Same Post as above
29	"0"49+46		38.0	D3-1.0	VISTA AVE	1.67			8x30	1		2"	12.5'	3'	NB	4" Uc. Series C.
30	"0"49+46		38.0	R1-1.30	STOP	6.25			30x30						WB	Same post as above
31	"0"51+58		28.0	R1-1.30	STOP	6.25			30x30	1		2"	12.5'	3'	NB	*
32	"0"53+78		48.0	D3-1.0	MAIN ST.	1.50			8x27	1		2"	12.5'	3'	NB	*4" Uc. Series C.
33	"0"53+78		48.0	D3-1.0	"H" St.	1.06			8x19						NB	4" Uc. Series C.
34	"0"53+78		48.0	R1-1.30	STOP	6.25			30x30						WB	Same Post as above
35	"0"55+86	48.0		D3-1.0	MAIN ST.	1.50			8x27	1		2"	12.5'	3'	EB	4" Uc. Series C.
36	"0"55+86	48.0		D3-1.0	INDIAN ST.	1.72			8x31						NB	4" Uc. Series C.
37	"0"55+86	48.0		R1-1.30	STOP	6.25			30x30						EB	Same post as above
38	"0"56+27		50.0	D3-1.0	MAIN ST.	1.50			8x27	1		2"	12.5'	3'	WB	4" Uc. Series C
39	"0"56+27		50.0	D3-1.0	"G" ST.	1.06			8x19						NB	4" Uc. Series C.
40	"0"56+27		50.0	R1-1.30	STOP	6.25			30x30						WB	Same post as above
41	"G"48+67	10.0		R6-2L	ONE WAY ←	3.00			18x24	1		2"	12.0'	3'	WB	
42	"A"9+73		22.0	R1-1.30	STOP	6.25			30x30	1		2"	12.5'	3'	SB	
43	"0"58+23	32.0		D3-1.0	MAIN ST.	1.50			8x27	1		2"	12.5'	3'	EB	4" Uc. Series C.
44	"0"58+23	32.0		D3-1.0	"F" ST.	1.06			8x19						NB	4" Uc. Series C.
45	"0"58+23	32.0		R1-1.30	STOP	6.25			30x30						EB	Same post as above

1. All posts shall be perforated galvanized Steel Tubing 12ga., See Standard Drawing S-30.00.
2. All sign blanks shall be 0.063 inch thickness Aluminum as indicated in Section 615 of the Standard Specifications.
3. Sign locations are approximate only and shall be located by the Engineer.
4. *Where noted in the summary, signs shall be placed in a 6"×6" block out in back of sidewalk adjacent to the R/W line.
5. All blockouts shall be filled with Subbase grading "A" to top of sidewalk grade.

K&E 19 12 52 5-71 45998-

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	21	175

▲=Indicates wooden stairs and/or walks to be reconstructed
⬟=Indicates concrete stairs and/or walks to be reconstructed
●=Indicates wooden and/or concrete drives to be reconstructed

HORIZONTAL CONTROL
Bearings for this project are based on U.S.C. & G.S. triangulation stations "USE #10" and "NOVA" for the B.O.P. and stations "E" and "LEW" for the E.O.P.

BEGINNING OF PROJECT
S-0937(10)
STA. "L" & "0" 9+24.00

VERTICAL CONTROL
Vertical Control was derived from U.S.C. & G.S. Benchmark #10. A standard disk stamped No. 10 (1958), set in East curb of Main Street approx. one half foot above street level, 12' West of main entrance to Petersburg Bank and 12' South of a yellow fire hydrant. U.S.C. & G.S. Elevation 24.12

Earthwork Equation:
Embankment = Excavation - waste × Grading factor + Borrow

B.M. #82, Spike in power pole
"L" 11+10.00 70.0' Lt.
Elev. 24.61

Embankment = 5023 Cu.Yd.
Unclassified Excavation = 4755 Cu.Yd. (All Waste)
Borrow = 9041 Tons (Includes 259 Tons Selected Material)

Ferry Terminal
For Details see sheet No. 30.
Line of Pavement Removal
N36°52'05"W ~73.93'
N45°37'E ~200'
N43°07'55"E ~ 76.00'
N41°22'59"E ~ 281.64'
"0" 9+62.22
"L" 49+98.93
"0" 11+35.00 = "X" 50+00.00
MITKOF HIGHWAY
BAKER STREET
MATCH LINE
R/W
P/L
Inlet Elev. 22.50
Outlet Elev. 20.50
Invert Elev. 15.50 ~~15.00~~
Outlet Elev. 14.00
Invert Elev. 18.~~00~~.50
Frame boathouse on piling
Log retaining wall
Wooden Sidewalk
Frame warehouse on piling w/ wooden driveway
Wooden driveway
4" Subdrain
C.B. Subdrain
12"x74 CMP
12"x66 CMP
18"x24" CMP
Δ=15°41'08" Rt.
D=10°00'
T=78.92'
R=572.96'
L=156.86'
S=0.06'/FT.
Δ=44°56'12" Lt.
D=11°00'
T=43.56'
L=80.00'
"0" 12+81.64 P.C.
"0" 13+60.56 P.I.
"0" 14+40.00
"0" 14+58.50 P.T.
Retaining Wall "A"
1 story frame building (motel)
(Motel)
Frame house w/ crawl space
Garage
Frame house on concrete basement
"0" 9+64 P.I. Begin Curb & Gutter
Sta. "0" 9+80 P.I. Install 18" x 54" pipe conduit.
Install 24"x36" 16 M.C. Pipe conduit
Elev. 24.83
Elev. 25.46 100' V.C.
Elev. 24.30 50' V.C.
-0.83%
+0.40%
-0.40%
Finished Profile Grade
Existing ground
"0" 10+90 V.P.I.
"0" 13+90 V.P.I.
Approximate limits peat removal

NOTE BOOK | ALIGNMENT CHECKED | NO. OF NAT CHECKED
GRADES CHECKED | BY: [illegible] | STRUCTURE NOTATING CH'KD | NO.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	22	175

Frame warehouse on piling

Frame garage

Metal building

Frame shed

Plank dock outlet El. 6.8

2½ story frame house on piling

Cor. 25, A.Y.S.D.
Cor. 1, M.C., USS. 289
Cor. 1, M.C., USS. 2499

For Standard Oil Dock Connection Details see Sheet No. 43

STANDARD OIL CO.

"D" 19+04 Install 72"x44'+80' Corrugated Aluminum Pipe Arch. See Sheet No. 67

For Standard Oil Parking Detail see sheet No. 66

Retaining Wall "B"

Frame house on piling

"D" 14+40.00

"D" 15+17.27 = N 10+00.00

N 57°04'06" E ~ 238.67'

"D" 17+84.46 P.I.

"D" 20+00.00

N 80°51'36" E ~ 183.30'

Sta. "D" 14+71 Ft. End Retaining Wall "A"

MATCH LINE

Added Retaining Wall A-1

4" Subdrain

S 37°31'06" E ~ 610'

For "N" Alley Detail see Sht. No. 35

Frame house w/ concrete basement & garage

2 Story frame house w/ garage

A" Subdrain

6" Subdrain

Inlet El. 19.8

Added 0'16+32.18 24" CMP Subdrain 36 Ft. @ 6.65%

4" Subdrain

Retaining Wall "C"

1½ story frame house w/ concrete garage & basement

"D" 16+77.17 P.C.

Δ = 23°47'29" Rt.
D = 11°15'00"
T = 107.29'
R = 509.30'
L = 211.48'
S = 0.06'/Ft.

Pumping Station

Inlet El. 17.00

Delete flag pole

Frame Building w/ crawl Space

4" Subdrain

Oil tank

"D" 18+08.65 P.T.

Oil & Gas Pipelines

▲ = Indicates wooden stairs and/or walks to be reconstructed
● = Indicates concrete stairs and/or walks to be reconstructed
● = Indicates wooden and/or concrete drives to be reconstructed

B.M. #1 Spike in lower pole "L" 17+49.00 6.0' Lt. Elev. 24.06

Embankment = 7175 Cu. Yd.
Unclassified Excavation = 6486 Cu Yd. (All Waste)
Borrow = 12915 Tons (Includes 2689 Tons Selected Material)

Elev. 22.90 50' Lt.

Existing ground

-0.40%

+0.48%

Finished Profile Grade

Elev. 24.10 100' Lt.

-0.40%

"D" 16+50 V.P.I.

Approximate limits of peat removal

"D" 18+08.65

14+40 15+00 16+00 17+00 18+00

26 24 22 20 18 16 14

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	23	173

▲=Indicates wooden stairs and/or walks to be reconstructed.
⬟=Indicates concrete stairs and/or walks to be reconstructed
●=Indicates wooden and/or concrete drives to be reconstructed

For Union Oil Dock Connection Details see Sheet No. 43

R.M.C. 26, AT 3.9

N

STANDARD OIL CO

For Standard Oil parking detail see sht. No. 66a

Frame warehouse on piling

Frame house w/ basement & garage

STANDARD OIL CO.

MATCH LINE

"M" STREET

SEVENTH AVENUE

SIXTH AVENUE

"M" 20+71.95 P.C.

"M" 21+54.93 P.I.

"M" 22+36.46 P.T.

"M" 24+04.71 = "6th" 50+04.00

N80°51'36"E ~ 183.30

S80°37'59"E ~ 595.99'

Δ=18°30'25" Rt.
D=11°15'00"
T=82.98'
R=509.30'
L=164.51'
S-0.06' Rt.

Added 24" CMP Inlet 15'+8.0 OMP Sta. 0+12.00

Inlet El. 17.00

6" Subdrain

Inlet El. 18.86

Outlet El. 17.88

Outlet El. 18.20

Outlet El. 17.53

Outlet El. 17.10

Oil & Gas Pipelines

Timber Dock

OFFICE

Invert Elev. 17.70

Inlet El. 18.40

Invert Elev. 19.60

20.00

4" Subdrain

2 Story frame house on concrete foundation

2 Story frame house on concrete basement & garage

Frame house on concrete basement

For Intersection Detail see sht. No. 30.

9'R.

Concrete loading pad & curb

Invert Elev 23.50

S07°16'45"E ~ 98.00

Invert Elev. 26.70

8.1'+50.63 Rt. Construct 18' Residential Approach

6'4" SD-80 Install 18'3.8" pipe conduit Skew 23° Rt. Ahd.

0'24.9" Install 10'3.1" 72" Corrugated Aluminum Pipe Arch. See Sheet No 68

0'25.6 Install 24'8.2" pipe conduit.

Slope

+54 +38 +85 +22 +56

P-16 P-17 P-18 P-19 P-20

S-16 S-17 S-18 S-19 S-20

207 206

1 2 3 4

PLAN	SURVEYED	PLOTTED	QUANTITY CHECKED	ST. OF WAY CHECKED
NOTE BOOK				
NO.				

B.M. #2 Spike in power pole
"L" 24+33.00 21.5 Rt.
Elev. 25.58

Embankment = 6174 Cu.yd.
Unclassified Excavation = 6124 Cu.yd. (All Waste)
Borrow = 11113 Tons (Includes 3110 Tons Selected Material)

Existing ground

Elev. 22.90 50' V.C.

-0.40%

+0.40%

Finished Profile Grade

Elev. 24.30 100' V.C.

-0.60%

"M" 22+00 V.P.I.

"M" 25+25 V.P.I.

Approximate limits of peat removal

26
24
22
20
18
16
14

20+00 21+00 22+00 23+00 24+00 25+00 26+00

PROFILE	SURVEYED	PLOTTED	NOTE BOOK	NO.

GRADES CHECKED
B. MK. NOTED
STRUCTURE NOTATIONS CH'KD.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	24	175

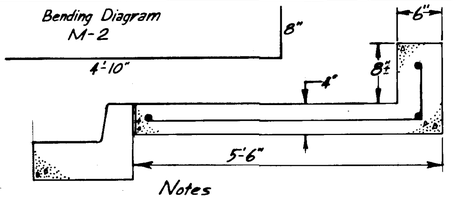
▲=Indicates wooden stairs and/or walks to be reconstructed
⬢=Indicates concrete stairs and/or walks to be reconstructed
●=Indicates Wooden and/or Concrete Drives to be reconstructed

"D"
Δ= 24°02'55"
D= 10° Lt.
T= 122.04'
R= 572.96'
L= 240.49'
S= 0.06'/ft.

Storage shed
Planked Street
2 Story frame house on piling
Buried Oil tank
Frame house on piling
Shed
Outfall El. 15.80
Outfall El. 15.70
0°20'32.45"P.C.
0°26'10.00"
0°26'53.31" = "5th" 50+08.04
S 80°37'59"E ~ 595.99'
"M" STREET
MATCH LINE
2 Story frame house on concrete foundation
"5th" 50+43
For intersection Detail see sheet No. 31
S 0°16'45"E ~ 141.96
FIFTH AVENUE
2 Story frame house
1½ Story frame house with crawl space
1½ story frame house w/ garage & basement.
6" Subdrain Connection
1½ Story frame house w/ garage & basement
6" Subdrain Connection
Garage
4" Subdrain
FOURTH AVENUE
1½ story frame house on concrete basement
Garage dirt floor
4" Subdrain
2 Story frame house on Concrete basement.
0°30'09"Rt. Install 18"x36" pipe conduit. Outlet connected to C.M.P. Inlet.
0°31'32" Install 36"x10" pipe conduit. Skew +1° Rt. Ahd.
THIRD AVENUE
Invert Elev. 16.35
0°31'41.54"P.C.
0°31'50.00"
Invert Elev. 13.20
0°30'12.94"P.T.
0°30'46" Rt. Install 18"x36" pipe conduit
COR. 28, A.T.S. 9
COR. 5, M.C., USS. 289
COR. 1, M.C., USS. 1252
R/W
P-21
P-22
P-23
P-24
P-25
P-26
P-27
P-27A
P-28
P-28A
S-21
S-22
S-23
S-24
S-25
S-26
S-27
S-28
S-28A
206
205
Retaining Wall "M"

Embankment= 5869 Cu.Yd.
Unclassified Excavation = 5375 Cu.Yd. (All Waste)
Borrow = 10565 Tons (Includes 2942 Tons Selected Material)

Bending Diagram M-2



Bar Schedule for Wall "M"			
Mark	Size	No.	Length
M-1	4	3	Continuous
M-2	4	12	5'-6"

Notes
1. 0°29+36 Rt. to 0°29+66 Rt. conc. shall be Class A conc. and paid for as specified in section 501.
2. There shall be an expansion joint at the beginning and end of this section.

Summary of Quantities Wall "M"	
Class A concrete	2.41 cu. yd.
Reinforced steel	104 lbs.

Elev. 22.80 100' V.C.
Existing ground
-0.60%
+0.64%
Finished Profile Grade
Elev. 24.56 100' V.C.
+2.50%
0°30+37 V.P.I.
Approximate limits of peat removal

28
26
24
22
20
18
16
26+00
27+00
28+00
29+00
30+00
31+00
32+00

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	25	175

▲=Indicates wooden stairs and/or walks to be reconstructed
⬟=Indicates concrete stairs and/or walks to be reconstructed
●=Indicates wooden and/or concrete drives to be reconstructed

"D" 31+73.96 Lt. to "D" 32+93.40 Lt. Install 123 L.F. of Beam Type guard rail, Type I Posts. See detail sht No. 43

"D" 31+50.00

"D" 32+02.98 P.I. Bk.
"D" 32+02.39 P.I. Ahd.

Frame House on Piling

Frame house on piling

Retaining Wall "D"

Frame house on concrete basement

Frame house on piling

N 75°19'06" E ~ 6860'

N 89°04'32" E ~ 181.36'

MATCH LINE

"D" 31+68 Rt. Install 18" x 14' pipe conduit.

Δ=13°45'25" Rt.
D=11°15'00"
T=61.44'
R=509.30'
L=122.29
S=0.06%

6" Subdrain

"D" 32+63.83 P.T.

1½ story frame house on concrete basement A

1½ story frame house on concrete basement

Retaining Wall "E"

4" Subdrain

2 story frame house on concrete basement + garage

1½ story frame house w/concrete basement

2 story frame house on basement

Subdrain

Retaining Wall "F"

203

109

N

Δ=54°41'16" Lt.
D=25°00'00"
T=118.51'
R=229.18'
L=218.75
S=0.06½%

Outfall Elev. 21.19

"D" 34+45.19 P.C.

1½ story frame house on concrete basement

"D" 35+91.07 = "M" 50+01.82

"D" 36+63.94 P.T.

"D" 35+63.70 P.I.

2nd Ave

SECOND AVENUE

202

VISTA AVENUE

N 34°23'16" E ~ 283.20'

4" Subdrain

2½ story frame house

For Intersection Detail See Sheet No. 91.

"M" STREET

108

SERVICE STREET

110

P.I.

B.M. #3 Spike in power pole "L" 36+18.00 16.0' Rt. Elev. 35.26

Embankment= 8723 Cu. Yd.
Unclassified Excavation= 9296 Cu. Yd. (All Waste)
Borrow= 15701 Tons (Includes 2818 Tons Selected Material)

Elev. 30.18
50' V.C.

+1.52%

+2.50%

"D" 33+00.00 V.P.I.

Existing ground

Approximate limits of peat removal

Finished Profile Grade

Elev. 34.80
100' V.C.

-0.10%

"D" 36+50.00 V.P.I.

34 32 30 28 26 24 22

36 34 32 30 28 26 24 22 20

+50 32+00 33+00 34+00 35+00 36+00 37+00

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	26	175

Frame house on piling
2 story frame house on concrete foundation
1½ story frame house w/ basement
2 story frame house on concrete basement
1½ story frame house on piling
Retaining Wall "K"
T-78
T-80
T-83
T-82
1½ story frame house on concrete
Frame warehouse on piling
109
N 34°23'16"E ~283.20'
VISTA AVENUE
"0" 37+00.00
"0" 38+65.00 = "R" 10+00.00
"0" 43+00.00
N 59°04'47"E 253.03'
MATCH LINE
4" Subdrain
1½ story frame house w/ basement
Frame house
Oil tank
For "R" Alley intersection Detail see sht. No. 35.
S 55°36'44"E ~73.0'
Frame house w/ crawl space
2 story house
frame w/ basement.
Retaining Wall "H"
Work
"0" 39+47.14 P.I.
1½ story frame house w/ crawl space
Δ = 24°41'31" Rt.
D = 7°30'00"
T = 167.21'
R = 763.94'
L = 329.23'
S = 0.06' Rt.
Carport
1½ story frame house on concrete foundation
1½ story frame house w/ basement
"0" 42+76.37 P.T.
▲ = Indicates wooden stairs and/or walks to be reconstructed
⬟ = Indicates concrete stairs and/or walks to be reconstructed
● = Indicates wooden and/or concrete drives to be reconstructed
110
108
B.M. #4 Spike in power pole "L" 42+15.00 28.0' Rt. Elev. 26.30
Embankment = 12,594 Cu. Yd.
Unclassified Excavation = 12,915 Cu. Yd. (All Waste)
Borrow = 22,669 Tons (Includes 2,783 Tons Selected Material)
-0.70%
-3.24%
Elev. 23.16 150' V.C.
"0" 40+25 V.P.I.
Finished Profile Grade
Existing ground
Approximate limits of peat removal
34
32
30
28
26
24
22
20
18
37+00
38+00
39+00
40+00
41+00
42+00
43+00
STRUCTURE NO. & NAME CH. NO.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	27	175

"0"43+28 Install 120"x74" Structural Aluminum Plate Pipe and Construct Headwalls see sheet Nos. 69 & 70 for details.

"0"42+94.00 Lt. to 43+69.00 Lt. Install 75 L.F. of beam type guardrail, type I posts.

"0"49+08.50 Rt. to 43+96.00 Rt. Install 87.5 L.F. of beam type guardrail, type I posts.

"0"43+22.00 Lt. to "0"50+14.00 Lt. Install 280 L.F. Bridge rail. See Sheet Nos. 29 & 80 for Details

▲ = Indicates wooden stairs and/or walks to be reconstructed

⬢ = Indicates concrete stairs and/or walks to be reconstructed

● = Indicates wooden and/or concrete drive to be reconstructed

T-81 T-82 T-86 T-102 T-103 T-104 T-105 T-106 T-107 T-113 T-114 T-116 T-118 T-119 T-120 T-121 T-122

HAMMER SLOUGH

INDIAN STREET

UMBER STREET

Patio, storage shed, Float, Frame house on piling, 1½ story frame house on piling, Frame house w/ Crawl Space, 1½ story frame house w/ crawl space, 1½ story frame house w/ basement, Frame house w/ concrete basement & garage

For Intersection Detail see sheet No. 32

For Intersection Detail See sheet No. 33

Construct Residential Approach

N 15°06'05"E ~ 103.80'

N 59°04'47"E ~ 259.03'

N 62°12'13"E ~ 228.21'

"0"43+98.32 = "J" 50+23.80

"0"48+00.87 = "U"49+69.53

"0"43+00.00

"0"49+00.00

"0"45+29.40 P.C.

"0"46+19.36 P.T.

"0"42+82.57 P.C.

"0"47+78.47

Δ = 3°07'26" Rt.
D = 2°30'00"
T = 62.49'
R = 2291.83'
L = 124.96'
S = 0.03'/ft.

Retaining Wall "T"

Retaining Wall "J"

12'x52' CMP, 18" CMP outlet, 12"x80' CMP Sweep, 6" Subdrain, 4" Subdrain, Support

P-39, P-39B, P-40, P-41, P-42, P-43, P-44, P-45, P-46, P-47

S-39, S-40, S-41, S-42, S-43, S-44, S-45, S-46, S-47

36" Plastic Pipe, 24" Plastic Pipe

existing Right of Way

29

B.M. #5 Spike in power pole
"U"46+70.50 20.0' Rt.
Elev. 23.82

Embankment = 8172 Cu. Yd.
Unclassified Excavation = 5318 Cu. Yd. (All Waste)
Borrow = 14 709 Tons (Includes 3454 Tons Selected Material)

Existing ground

Finished Profile Grade

Approximate limits of peat removal

+2.08%

-3.24%

-2.52%

+1.48%

Elev. 22.12 100' V.C.

"0"43+35.62 V.P.I.

Elev. 26.59 100' V.C.

"0"45+91.89 V.P.I.

Elev. 22.31 100' V.C.

"0"48+00.87 V.P.I.

28 26 24 22 20 18 16 14

43+00 44+00 45+00 46+00 47+00 48+00 49+00

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	28	175

PLAN — SURVEYED, PLOTTED, NOTE BOOK, ALIGNMENT CHECKED, ST. OF WAY CHECKED, NO.

PROFILE — SURVEYED, PLOTTED, NOTE BOOK, GRADES CHECKED, BRIDGE LOCATED, NO., STRUCTURE NO'S & N'S CH'KD., DATE, BY

"V" 50-60.00 Install 24"x40" pipe conduit skew 30° Lt. Ahd.
"D" 47+50.11 to "D" 51+45 Lt. Construct Rock Embankment
"D" 47+22.01 Lt. to "D" 50+14 Lt. Install 280 L.F. of Bridge rail. See Sheet Nos. 29 & 80 for Details.

T-121 T-185 T-186 T-123 T-183 T-181

HAMMER SLOUGH

N

"D" 49+00.00

"D" 51+02.00 Lt. to "D" 51+68.01 Lt. Install 60 L.F. of Bridge Rail.
"D" 51+02.00 Rt. to "D" 51+38.67 Rt. Install 40 LF. of Bridge Rail. See Sheet Nos. 29 & 80 for Details

Δ = 63°32'31" Lt.
D = 19°00'00"
T = 186.76'
R = 301.56'
L = 334.43'
S = 0.02'/ft.

"D" 52+17.00 P.T.

MATCH LINE

For Intersection Detail See Sht. No. 33

"D" 49+31.78 = "I" 50+00.00

S 37°08'43" W

"D" 49+25 Rt. to "D" 51+10 Rt. Construct Rock Embankment

"D" 49+56 Rt. to "D" 50+30 Rt. Install 80 L.F. of Bridge rail. See Sheet Nos. 29 & 80 for Details

"D" 50+69.34 P.I.

existing R/W

R/W

Begin Bridge "D" 50+22.76

End Bridge "D" 51+02.17

For Detail see Sht. No. 33, 71 & 72

P-48 P-49 P-50 P-51 S-48 S-49 S-50 S-51

See sheet 34 for conduit placement Plan & Profile.

N 1°20'18" W ~ 585.26'

Municipal Building & Fire Station

City Clerk & Library

Gravel parking area

HOGUE

54 ALLEY

HIGH

"D" 53+55.22 = "H" 50+03.88 55.01 9.71

Retaining Wall "L"

U.S. G.S.A. Building

For Intersection Detail see Sheet No. 33

"H" 51+43.11 End Retaining Wall

N 89°43'06" E ~ 222.0'

"H" STREET

Power Plant Sheet metal covered wood frame building

Power Plant Steel Building

BIRCH ALLEY

16 17 15 12 14 2 9 8 6 5 7 36 37

B.M. #6 Spike inside guardrail at west end of bridge.
"L" 51+94.00 30' Rt. Elev. 25.48

Embankment = 15230 Cu.Yd.
Unclassified Excavation = 2657 Cu.Yd. (All Waste)
Borrow = 27414 Tons (Includes 2864 Tons Selected Material and 2100 Tons Rock Embankment)

Elev. 27.05 200' Lc.

Elev. 23.79 120' V.C.

Elev. 23.22 300' V.C.

Elev. 28.32 100' V.C.

Elev. 27.94 100' V.C.

+1.48% -2.08% +2.52% -2.38%

Existing ground

Finished Profile Grade

Begin Bridge Sta. "D" 50+22.76 Elevation 26.19

End Bridge Sta. "D" 51+02.17 Elevation 25.63

"D" 51+00 V.P.I.

"D" 53+80 V.P.I.

28 26 24 22 20 18 16

49+00 50+00 51+00 52+00 53+00 54+00 55+00

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	29	175

4" Subdrain

S-60 S-59 P-59 S-58 P-58 S-56 P-57 S-57 P-60

SD

C

Bank Duck

COR 1, M.C. U.S.S. 2252
COR 9, M.C. U.S.S. 1252
COR 168, A.T.S. 9

R.M. C.128

R/W

P/L

"0"55+00.00

INDIAN ST.

N 1° 20' 18" W ~ 585.26'

N 9° 43' 58" W ~ 58.53'

"0"56+06.25"
"6"49+87.44

P-56

HOGUE ALLEY

S-55 P-55

"G" STREET

MATCH LINE

S-53 P-52 P-54 S-54 P-53

6" Subdrain

White's Shopping Center

Mitkof Hotel

Insurance Agency

Parr's Bakery

6" Subdrain

1 & 2 Story Frame Building

9 Story Frame Building

2 story frame bldg.

2238.02 P.I.
Δ-2°23'40" Rt.
NO Curve

For intersection Detail No. 34 see sht.

For Intersection Detail see sht. 34

US GSA Building

S-52

12" R.

8"-50'-85 Ft. Construct Service Approach. Match Existing Radius.

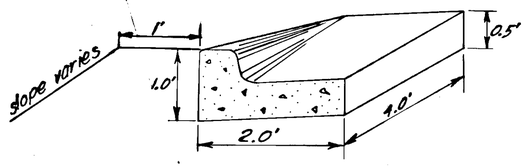
SD. 2 N 89°43'06" E ~ 91.07'

26 18 9 8 5 1 2 3 25 C 4 10 37 38

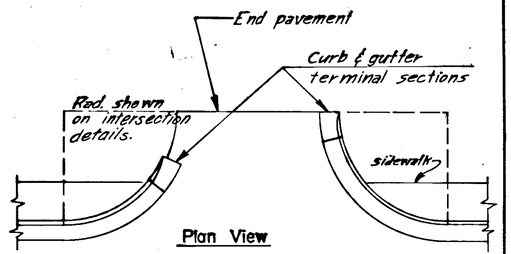
END OF PROJECT
S-0937(10)
STA. "0" 58+60.80

CURB AND GUTTER TERMINAL SECTION

Note: This detail shall be used at all terminal points of curb and gutter, unless noted otherwise on intersection details



Isometric View

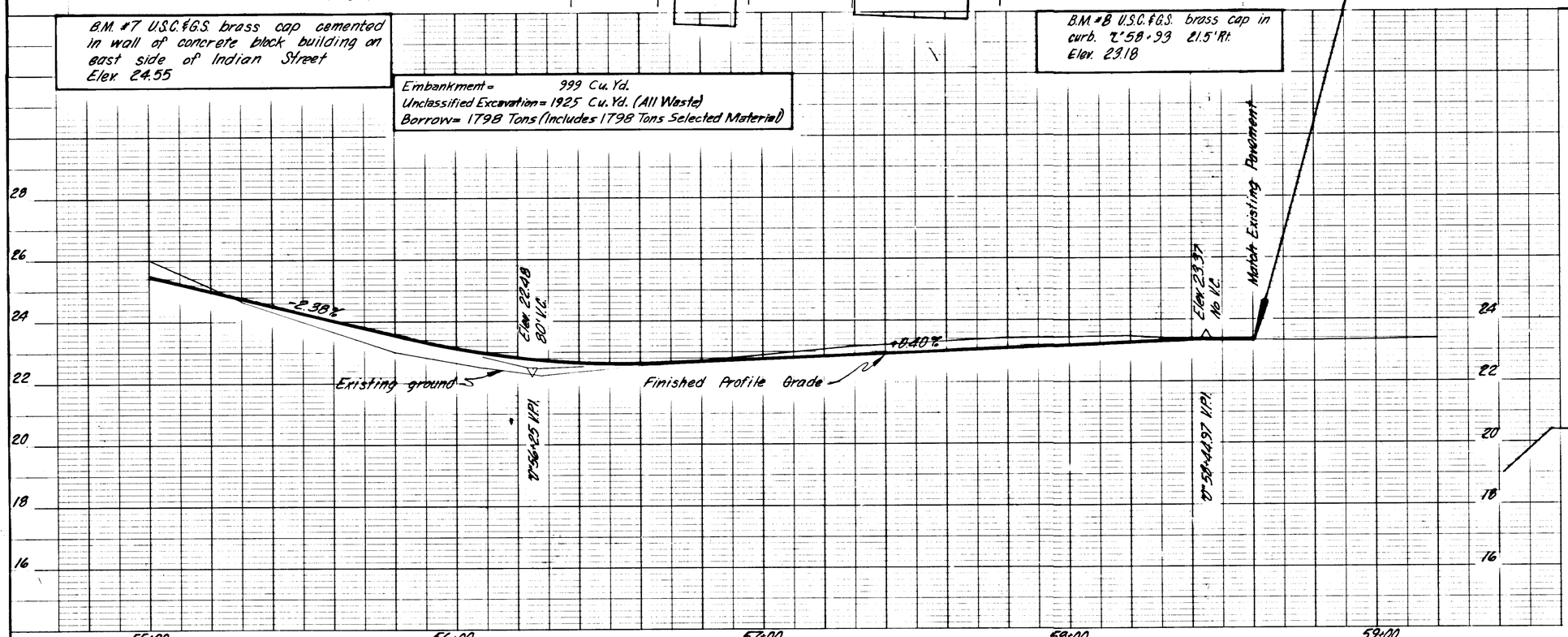


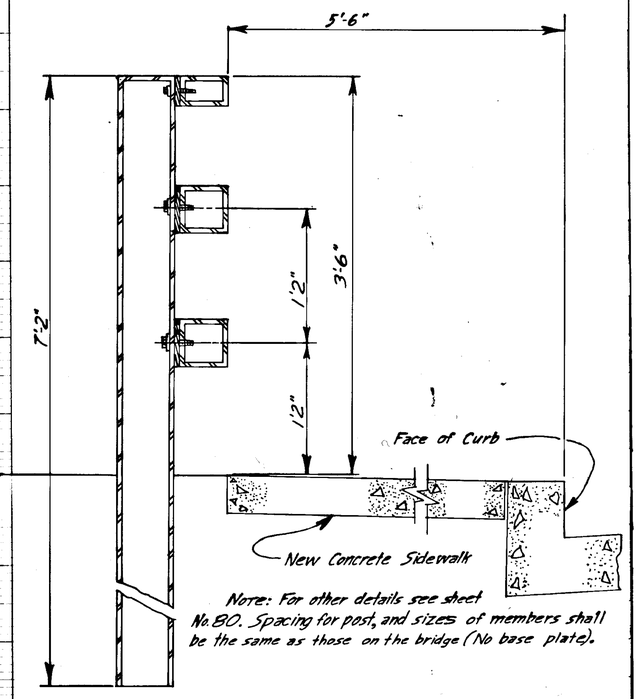
Plan View

B.M. #7 U.S.C.&G.S. brass cap cemented in wall of concrete block building on east side of Indian Street
Elev. 24.55

B.M. #8 U.S.C.&G.S. brass cap in curb. 7°58+93 21.5' Rt.
Elev. 23.18

Embankment = 999 Cu. Yd.
Unclassified Excavation = 1925 Cu. Yd. (All Waste)
Borrow = 1798 Tons (Includes 1798 Tons Selected Material)



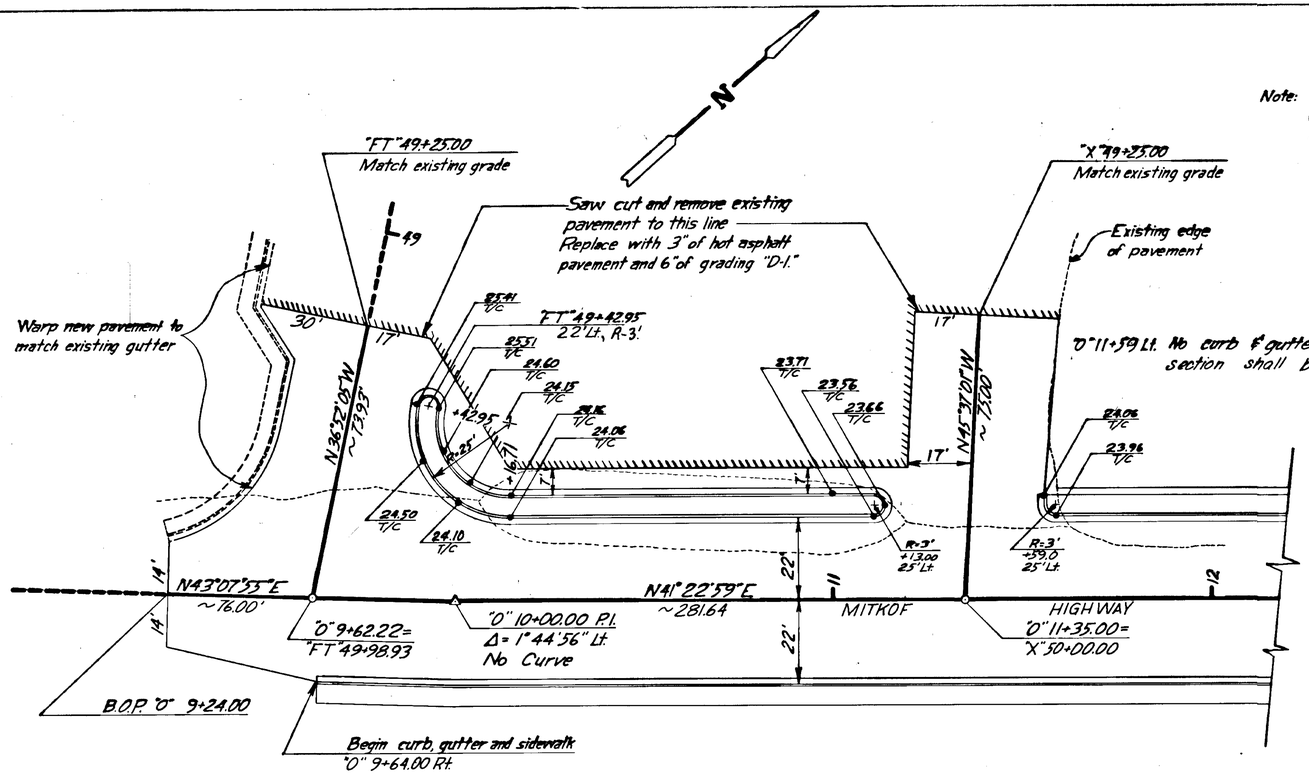


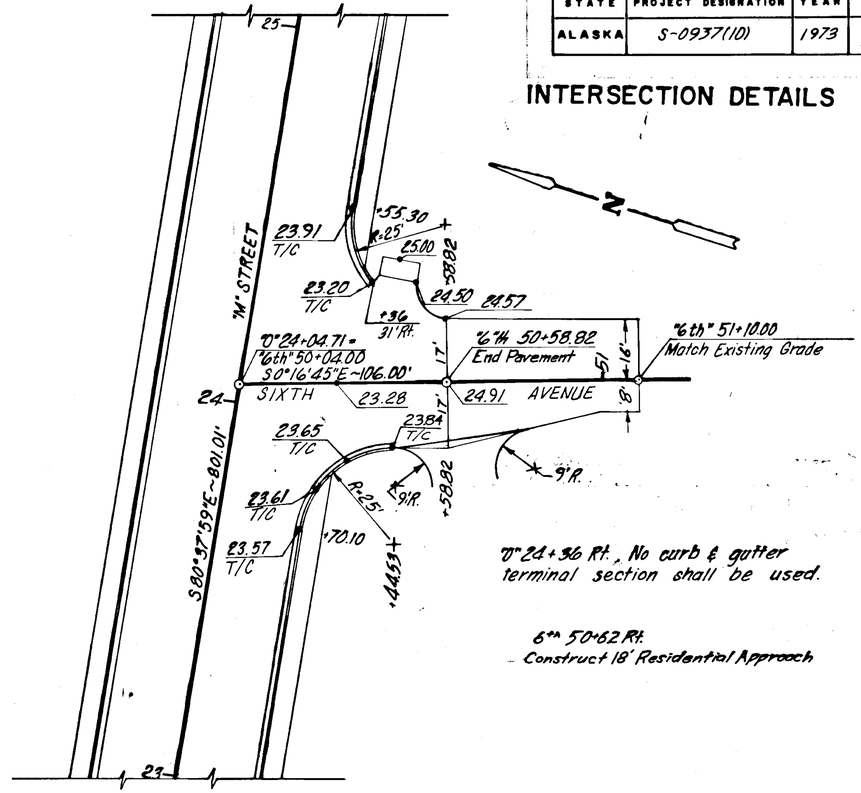
Note: For other details see sheet No. 80. Spacing for post, and sizes of members shall be the same as those on the bridge (No base plate).

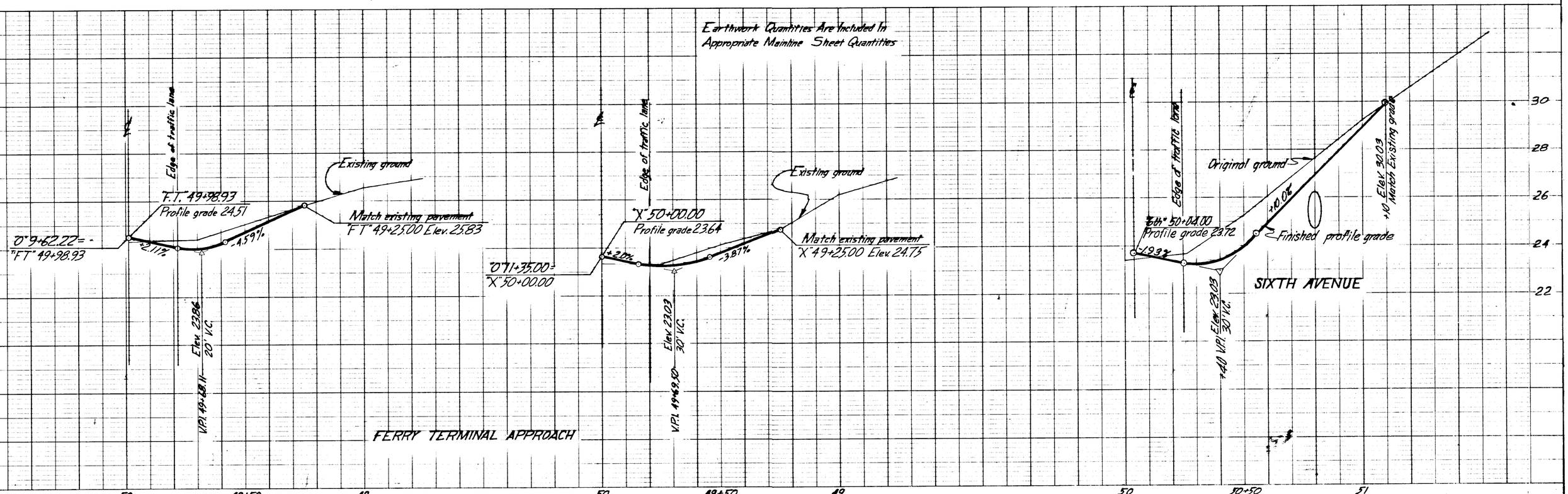
BRIDGE RAILING AND POST DETAIL

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	30	175

INTERSECTION DETAILS

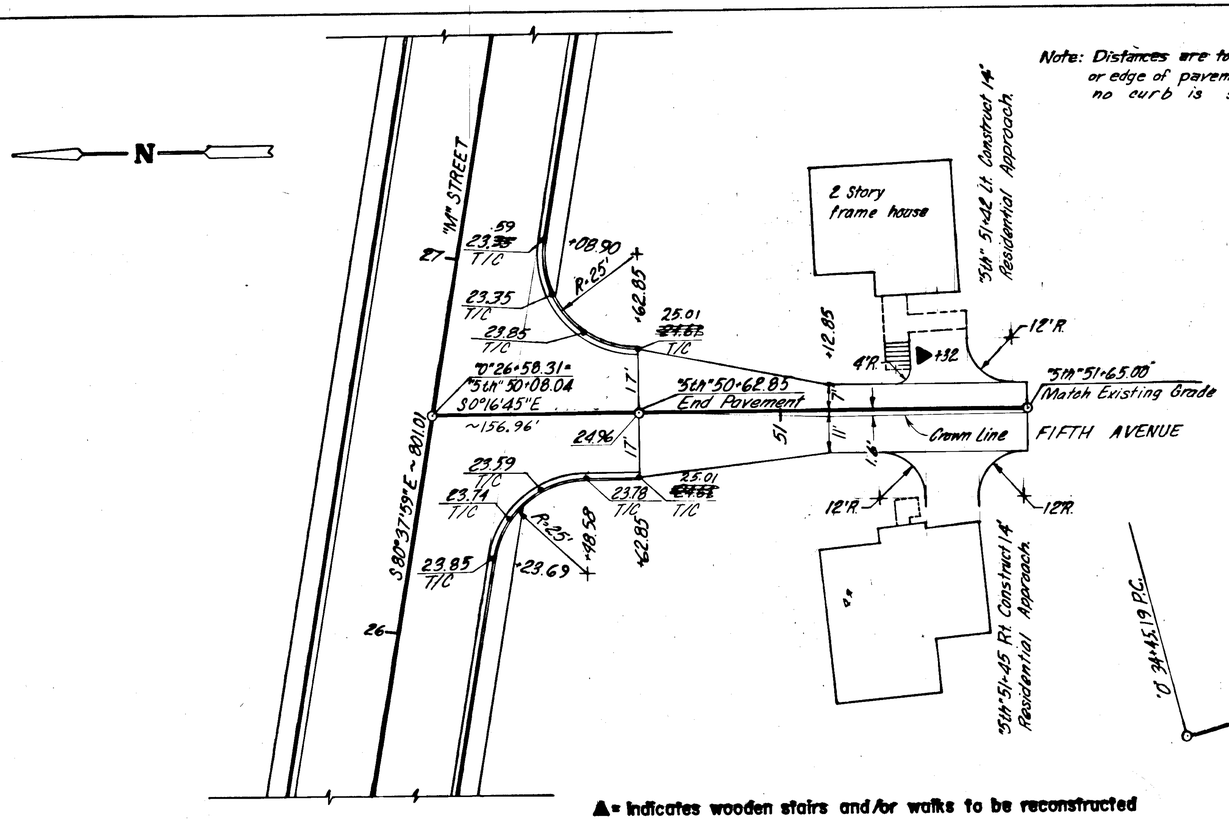


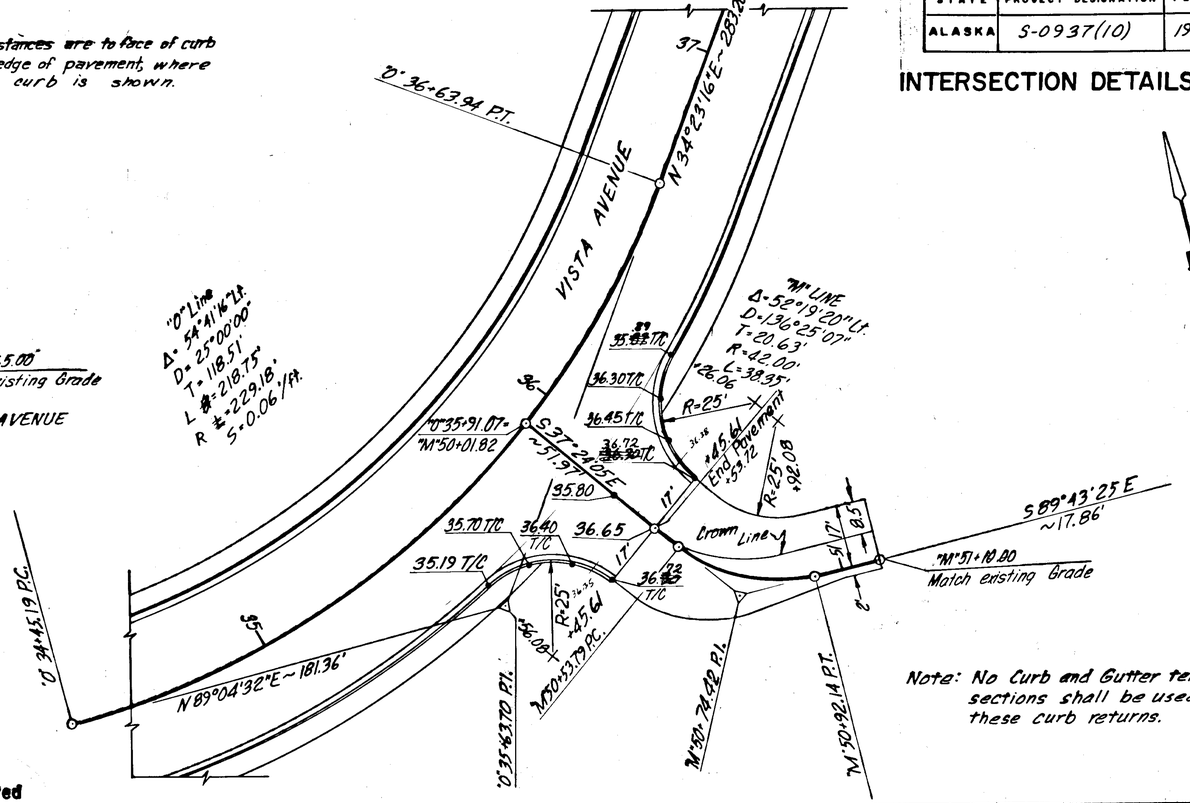




STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	31	175

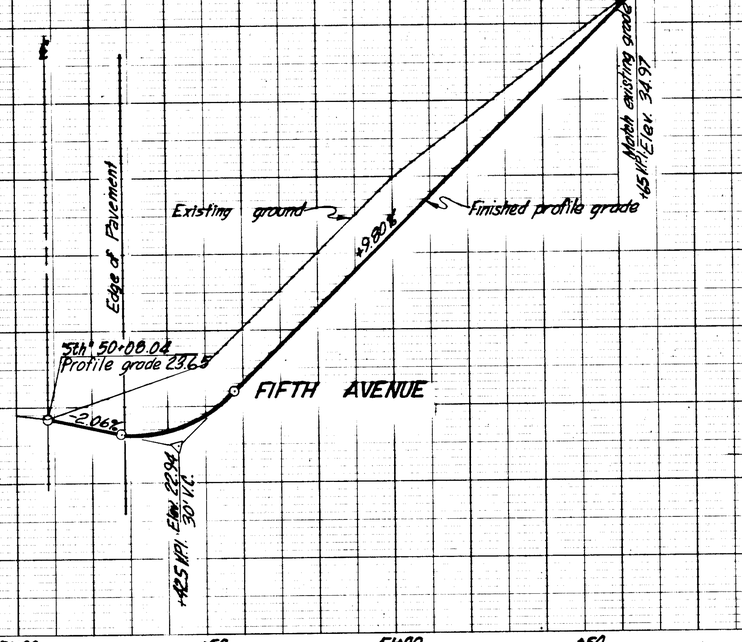
INTERSECTION DETAILS

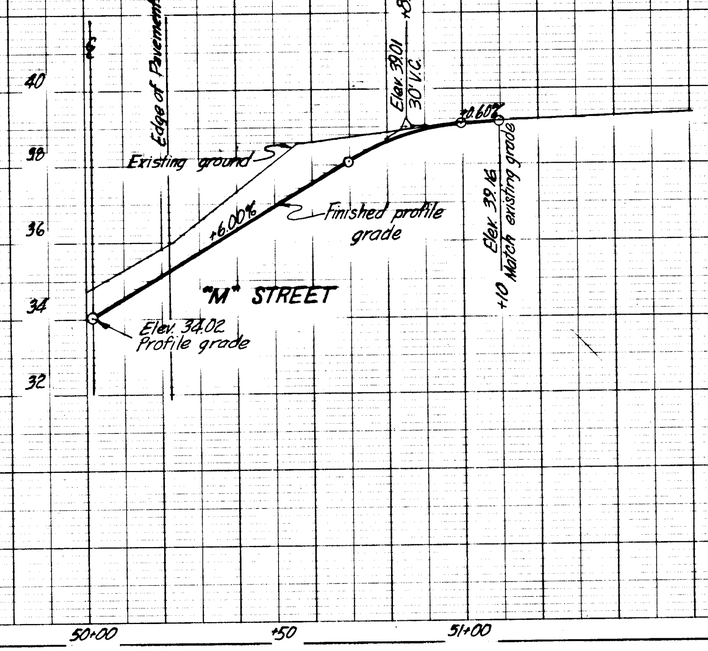




▲= Indicates wooden stairs and/or walks to be reconstructed

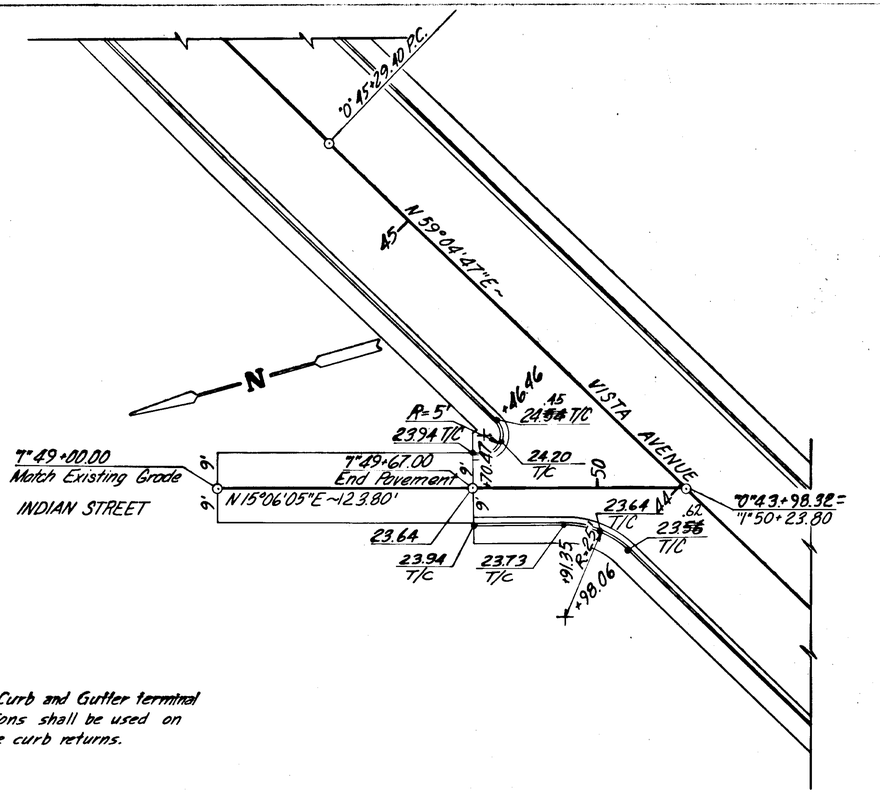
Earthwork Quantities Are Included In Appropriate Mainline Sheet Quantities



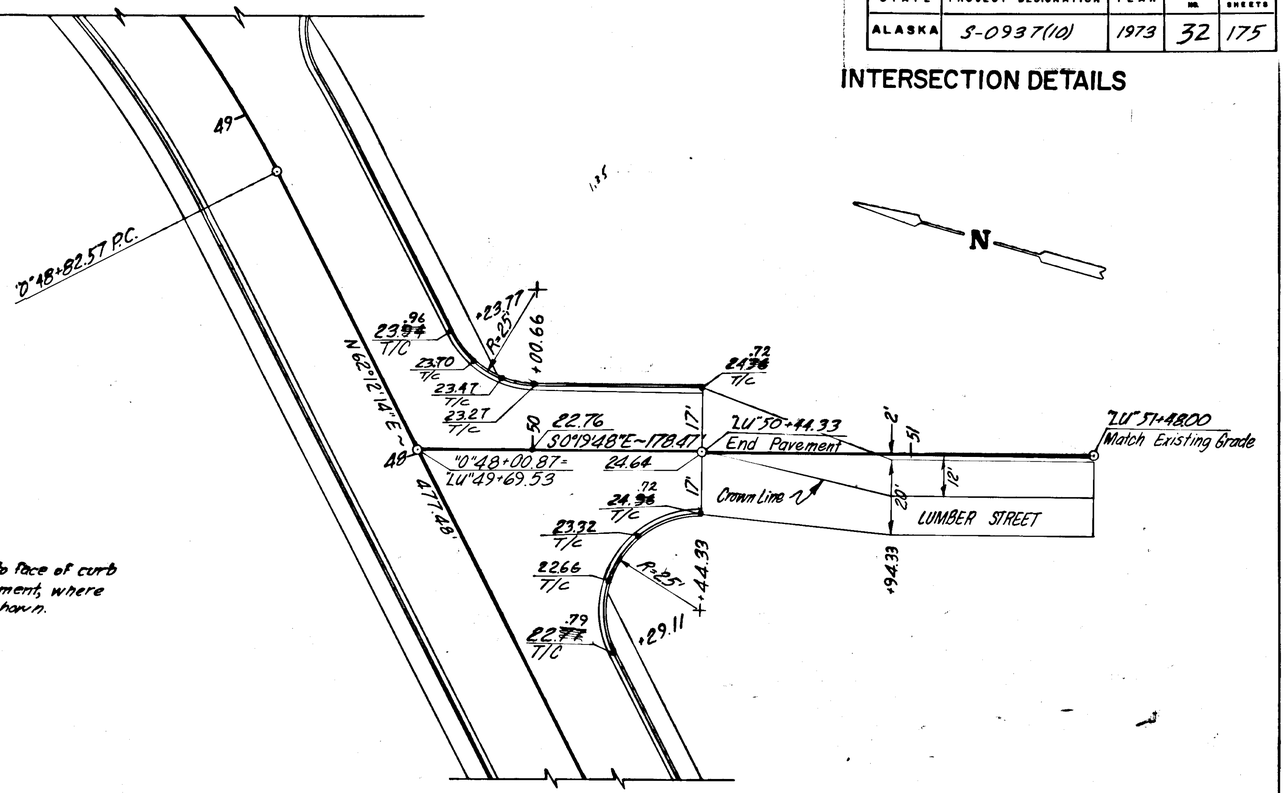


STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	32	175

INTERSECTION DETAILS

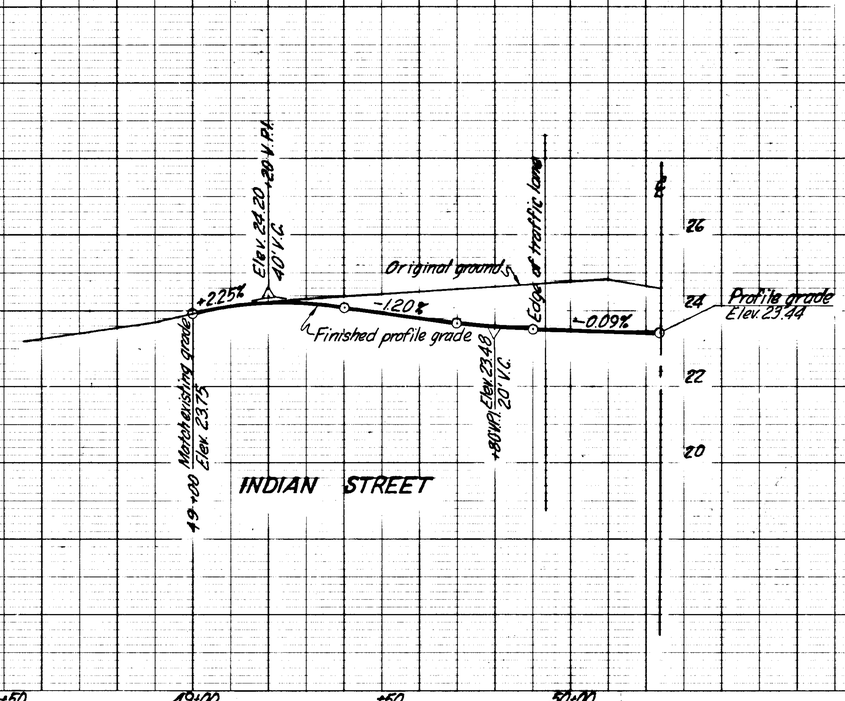


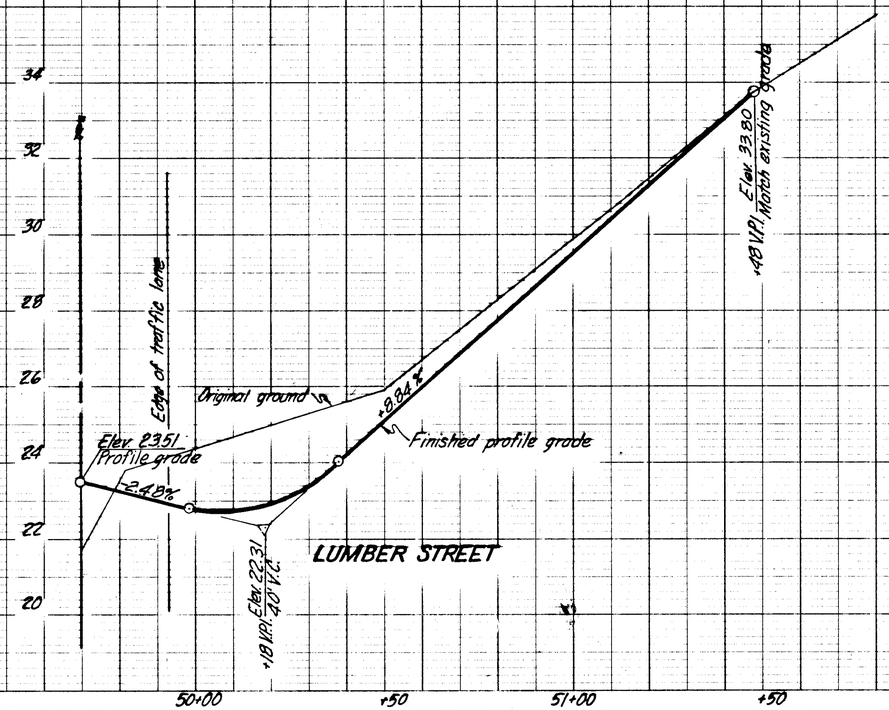
Note: No Curb and Gutter terminal sections shall be used on these curb returns.



Note: Distances are to face of curb or edge of pavement, where no curb is shown.

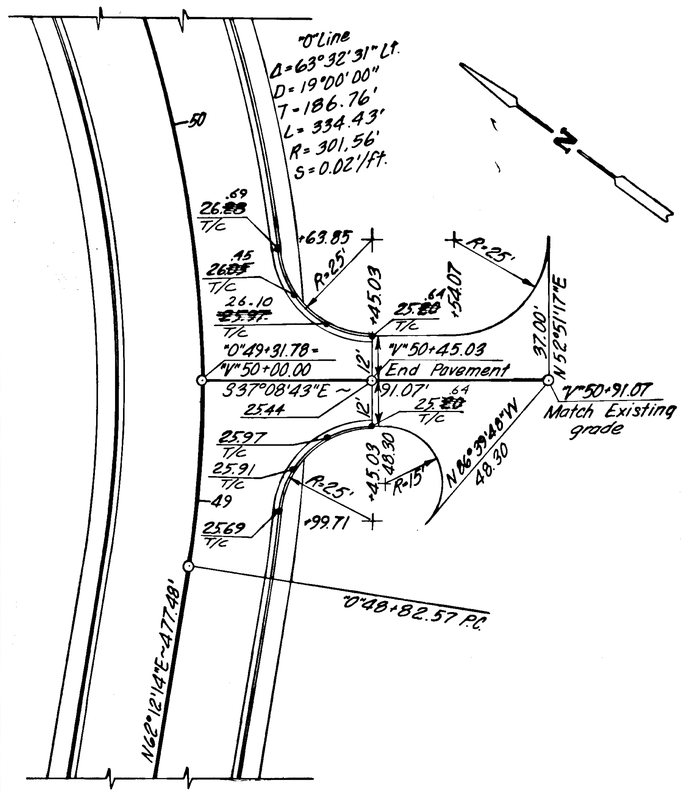
Earthwork Quantities Are Included in Appropriate Mainline Sheet Quantities

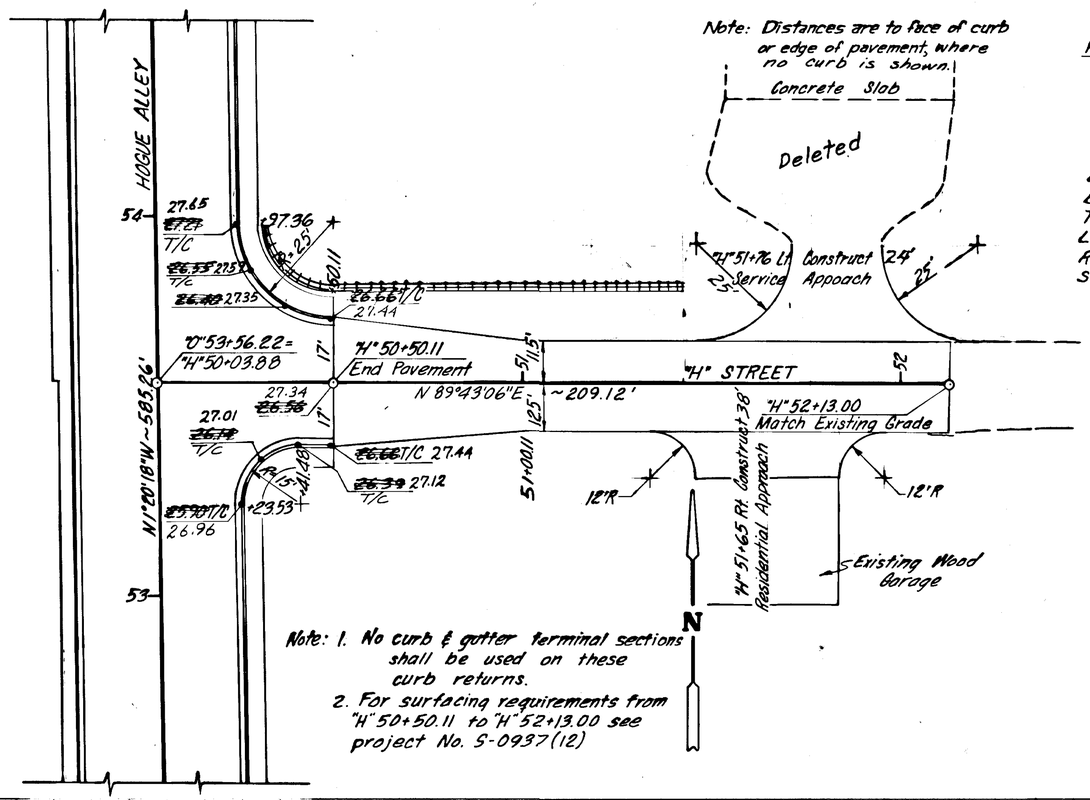


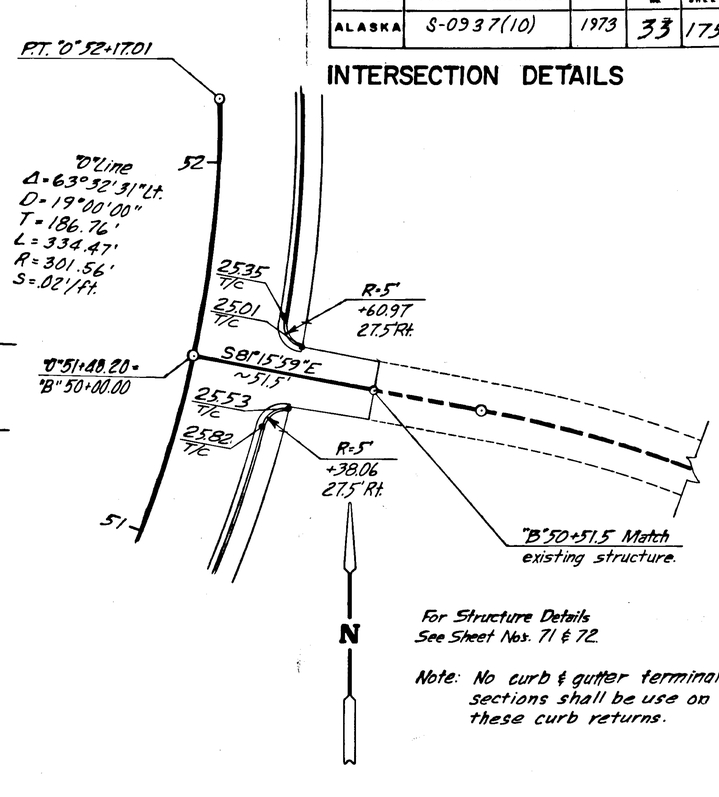


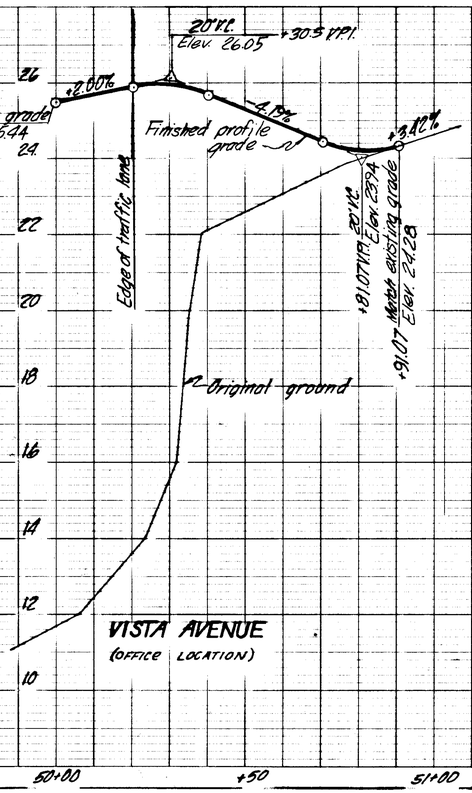
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	33	175

INTERSECTION DETAILS

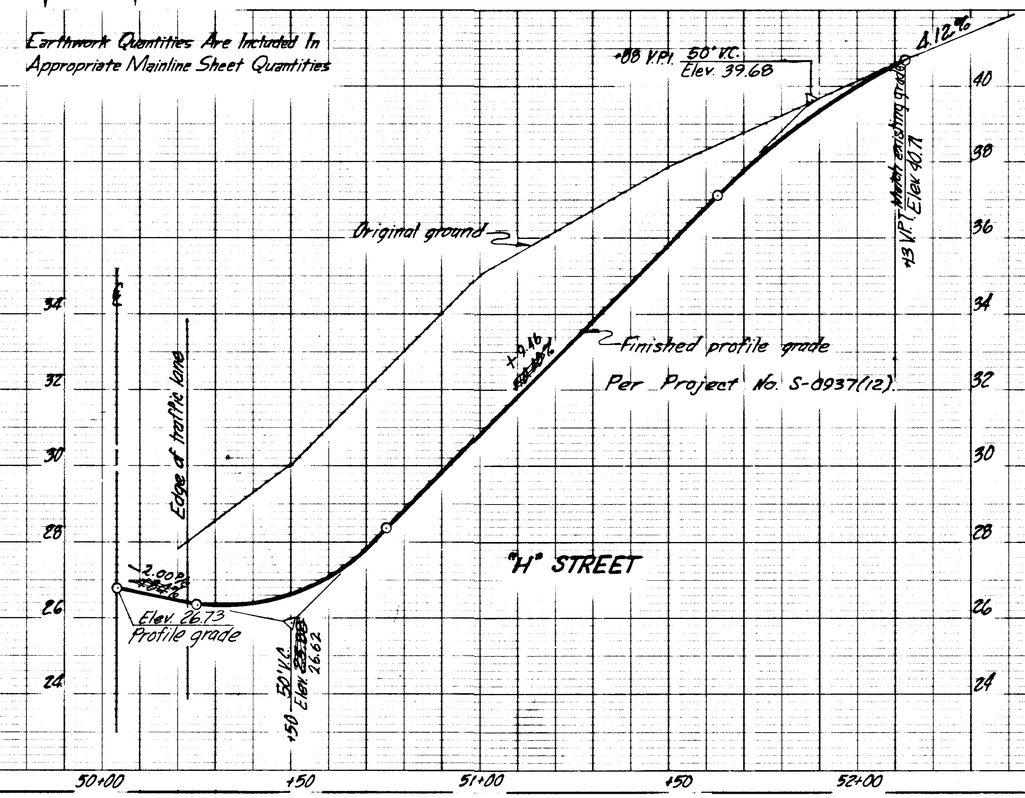


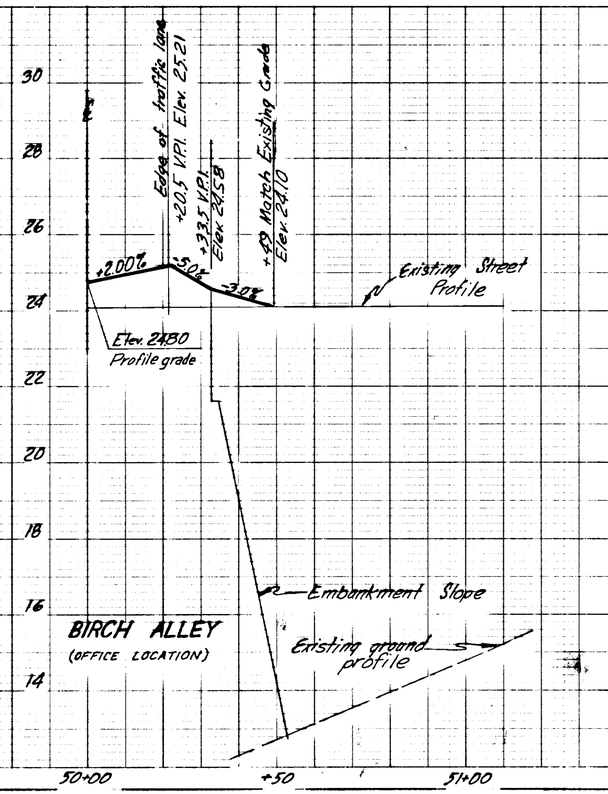






Earthwork Quantities Are Included In Appropriate Mainline Sheet Quantities





50+00 +50 51+00 50+00 +50 51+00 +50 52+00 50+00 +50 51+00

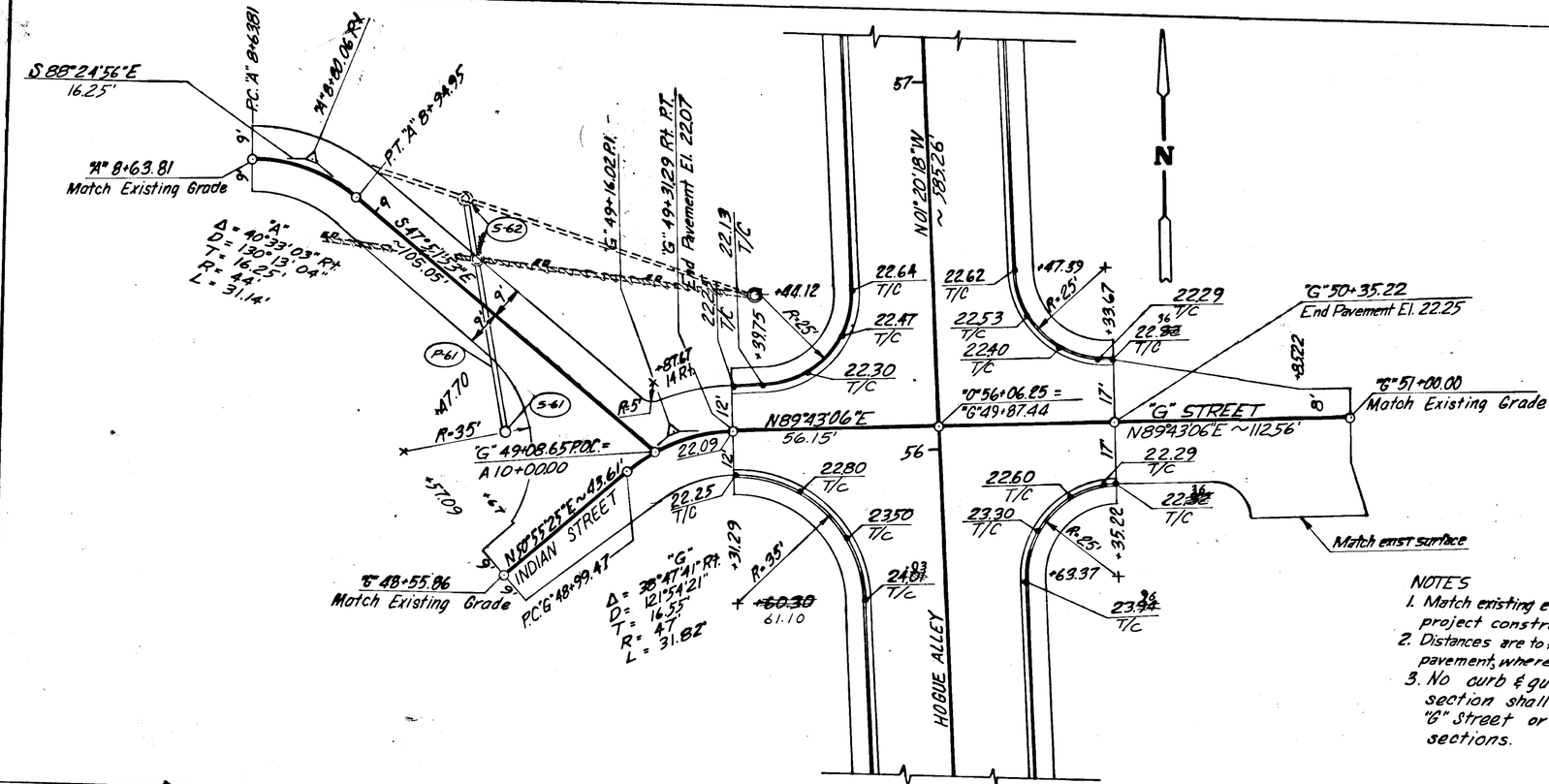
ST. OF WAY CHECKED

NO. STRUCTURE NOTATIONS CHKD.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	34	175

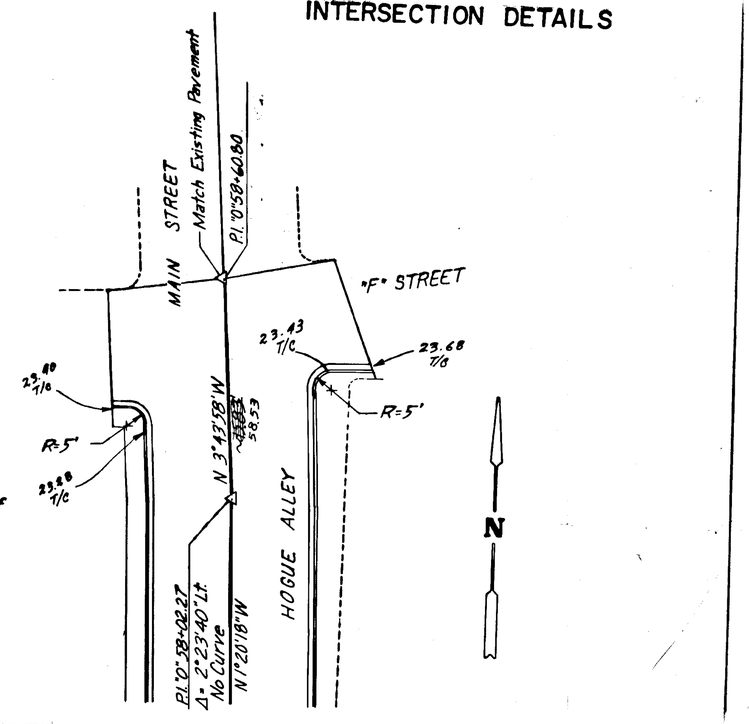
Geometrics

INTERSECTION DETAILS



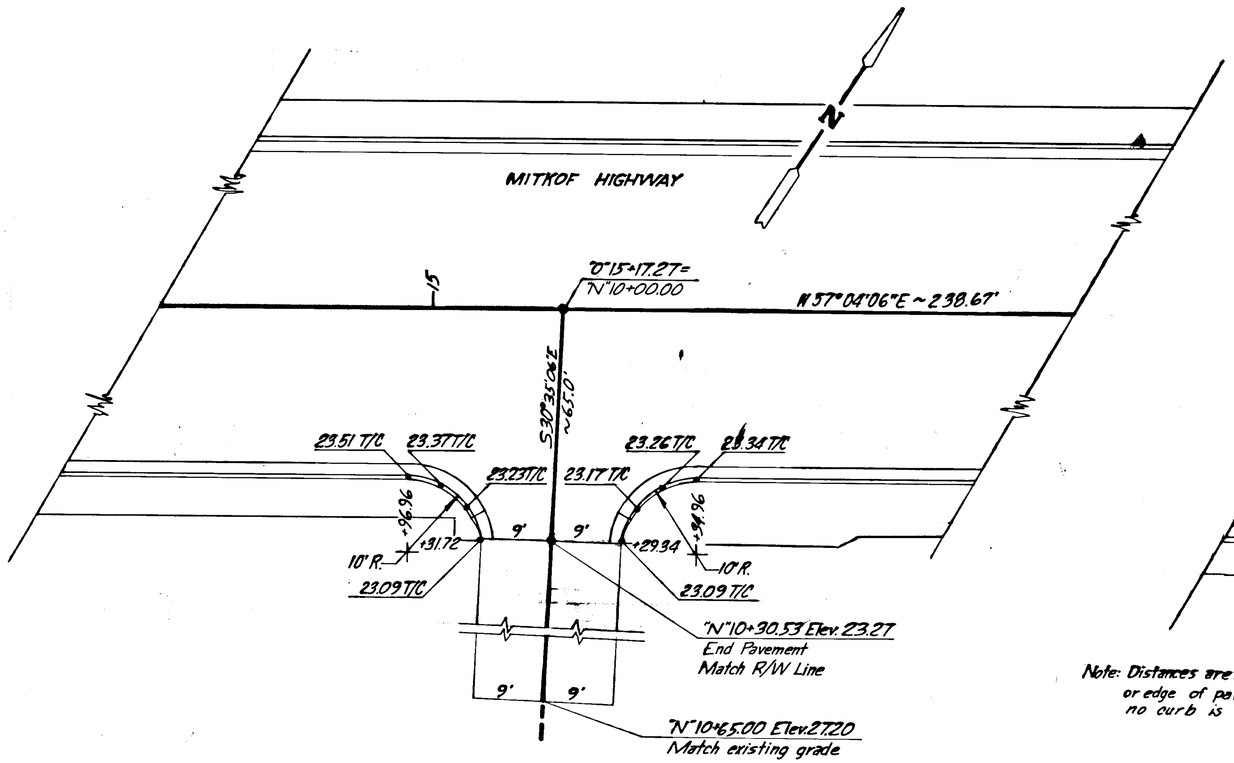
NOTES

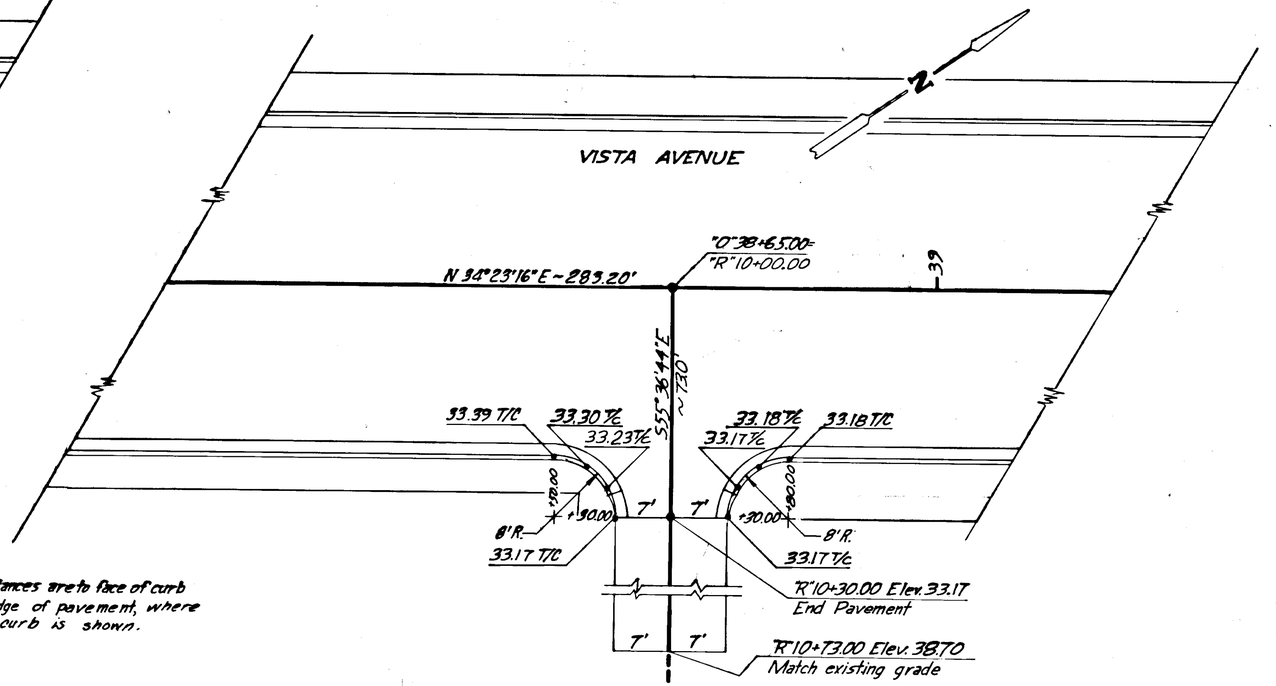
1. Match existing elevations at periphery of project construction.
2. Distances are to face of curb or edge of pavement, where no curb is shown.
3. No curb & gutter terminal section shall be used on the "G" Street or "F" Street intersections.



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	35	175

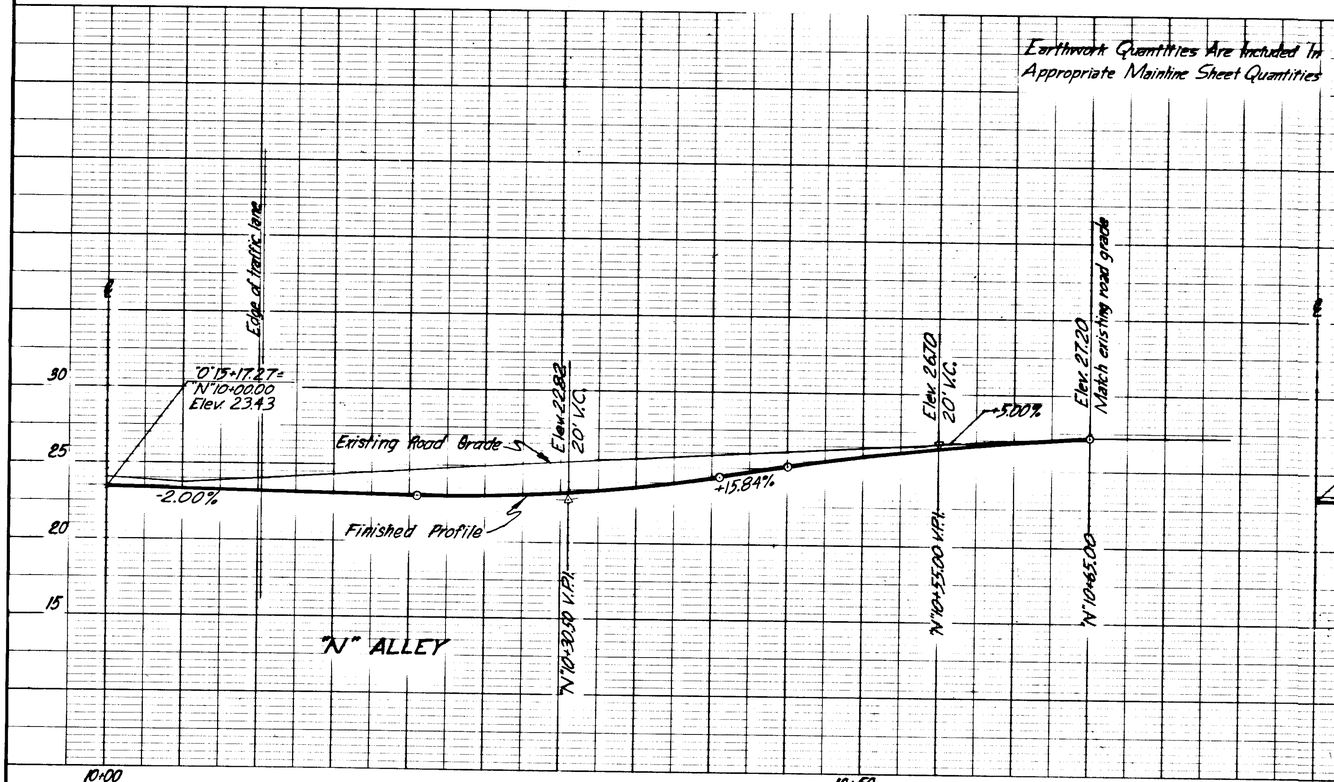
INTERSECTION DETAIL

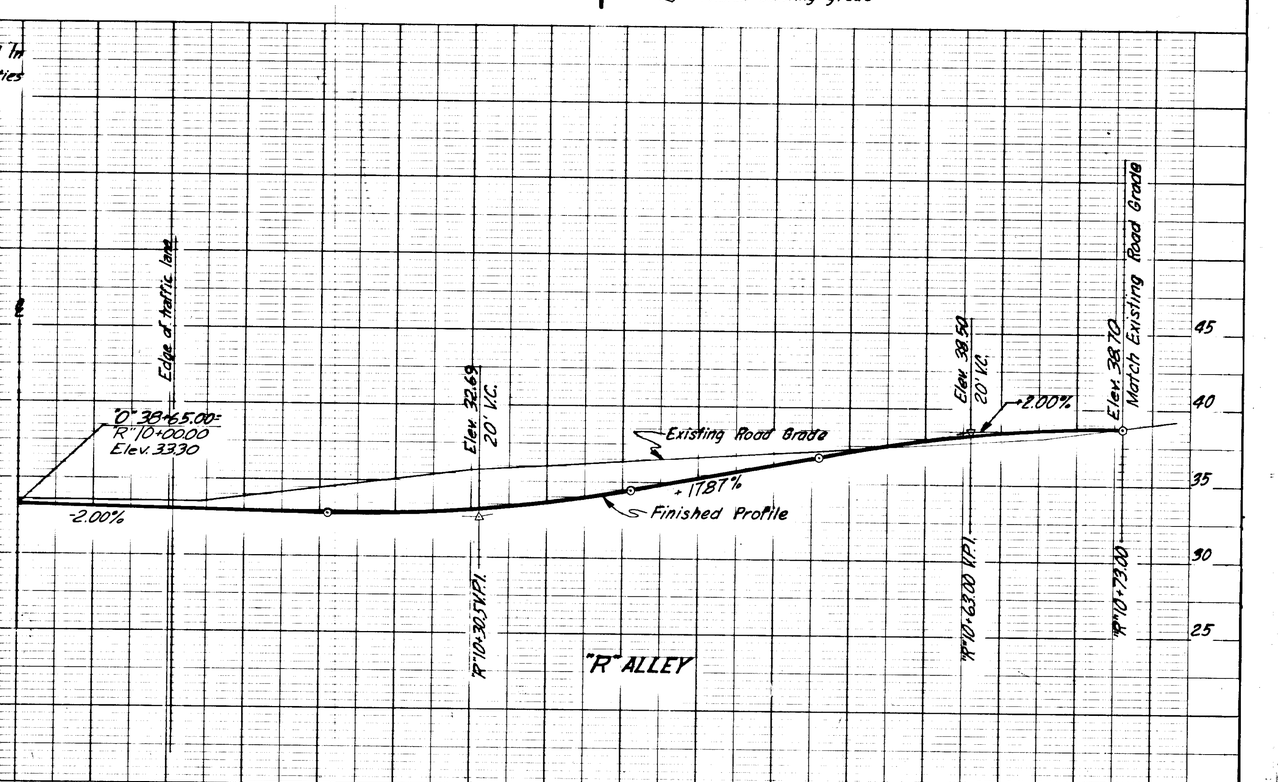




Note: Distances are to face of curb or edge of pavement, where no curb is shown.

Earthwork Quantities Are Included In Appropriate Mainline Sheet Quantities

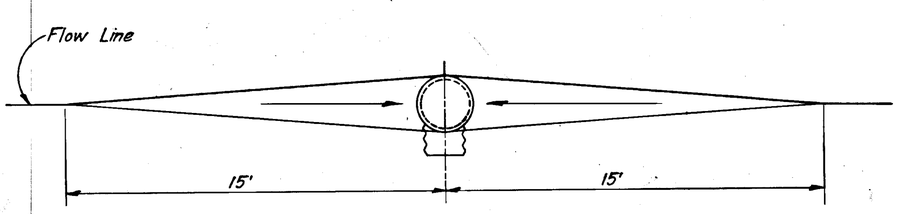




STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	36	175

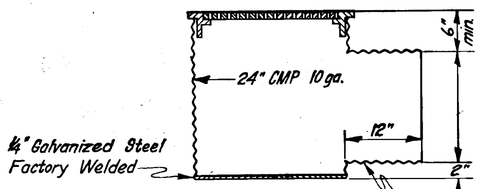
DRAINAGE DETAILS

24" CMP INLET

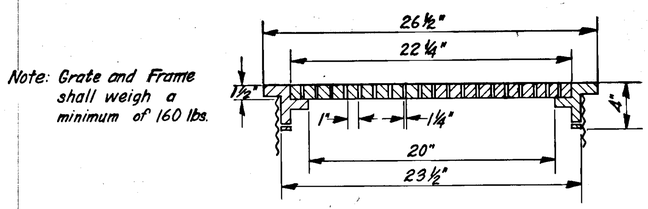


Transition from "V" to Flat Bottom Ditch

PLAN

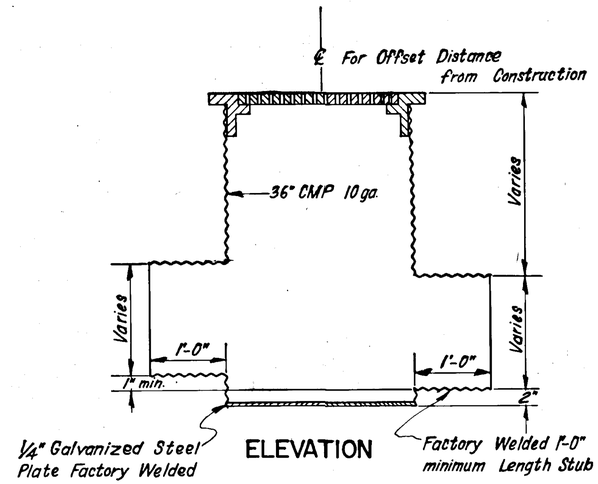


ELEVATION

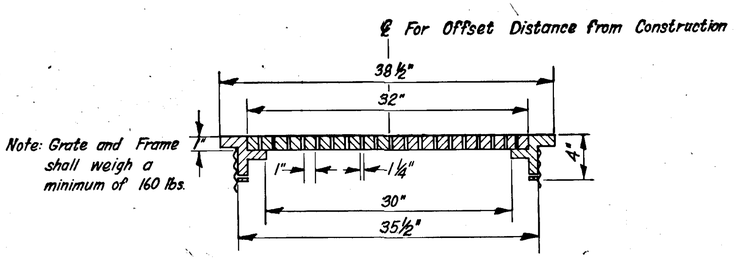


GRATE DETAIL

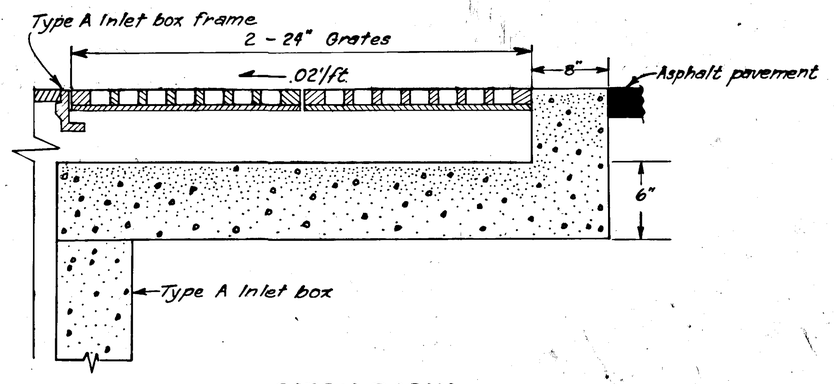
36" CMP INLET



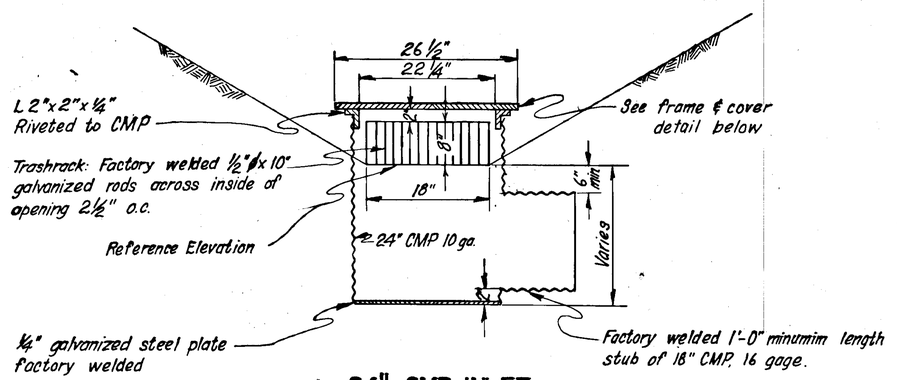
ELEVATION



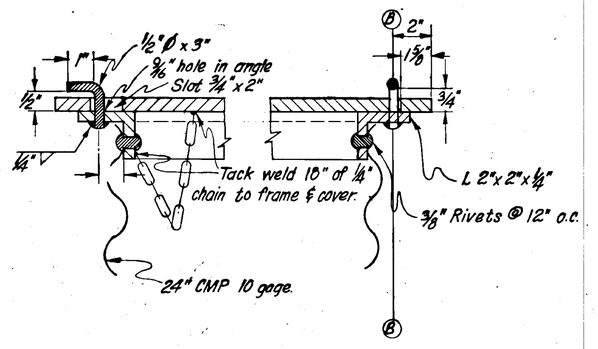
GRATE DETAIL

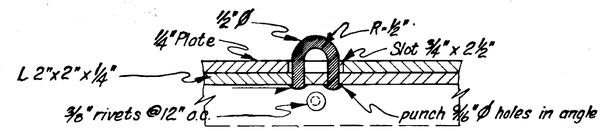


CATCH BASIN

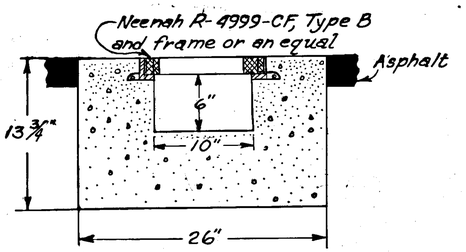


24" CMP INLET





SECTION B-B



SECTION

K&E 10 1252 5-71 45998

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	37	175

DRAINAGE PROFILE

T/I ~ 24" or 36" C.M.P. Inlet with Grate & Frame.
S/I ~ 24" or 36" C.M.P. Inlet with trashrack.
See sheet No. 36 for details.
T/B ~ Top of Grate T/C ~ Top of Curb.
Note: Location of utilities as shown are approximate. Offset distance is to back of curb for type A & B inlets to centerline of C.M.P. inlets.

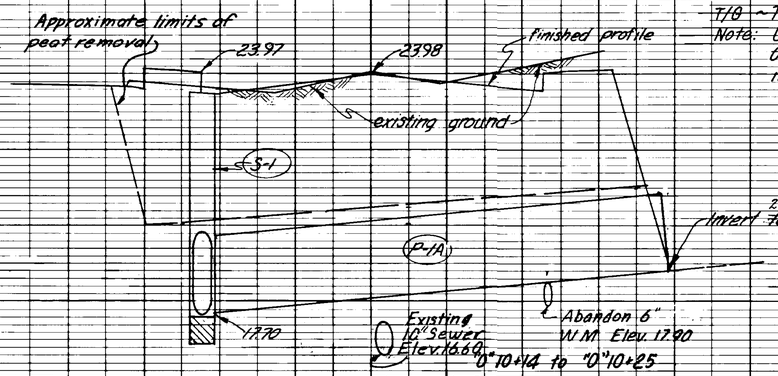
DRAINAGE STRUCTURE SUMMARY

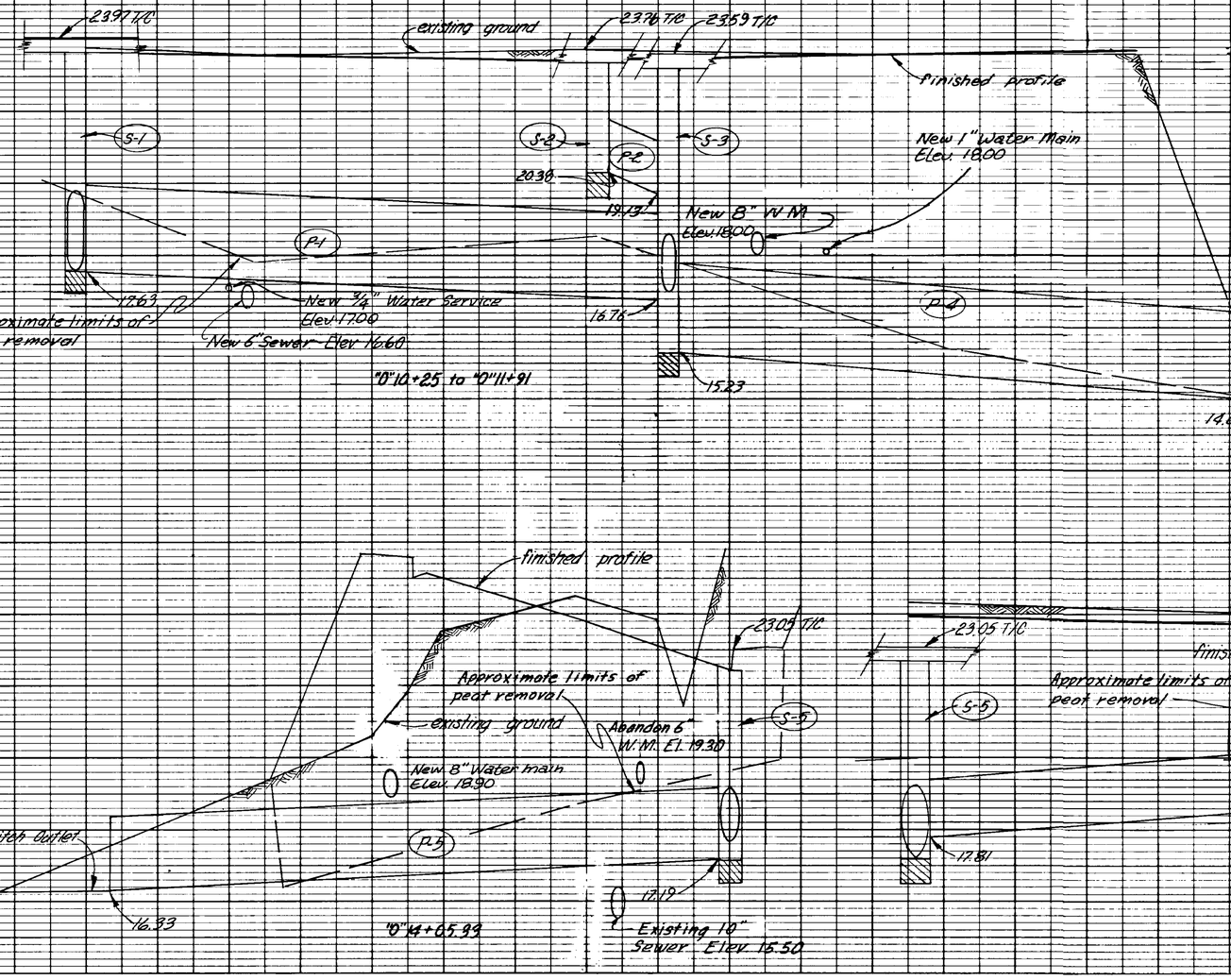
Inlet Number	Type Inlet	Location Station	Location Offset	Elev. Top of Curb	Invert Elev.	C.M.P. Inlet Size
S-1	A	"0"10+25	22.5'Lt.	23.97	17.63	
S-2	A	"0"11+00	28.5'Lt.	23.76	20.38	
S-3	B	"0"11+10	22.5'Lt.	23.59	15.23	
S-4	A	"0"11+10	22.5'Rt.	23.59	20.31	
S-5	A	"0"14+05.33	22.5'Rt.	23.05	17.19	
S-6	A	"0"14+80	22.5'Rt.	23.36	19.04	
S-7	*	"R"10+33	9.0'Rt.	23.29 †	19.27	24" T/I
S-8	*	"R"10+33	9.0'Lt.	23.29 †	19.55	24" T/I
S-9	A	"0"15+55.33	22.5'Lt.	23.68	20.40	
C.M.P.	Added	"0" 12+59	32.0 Rt.		20.01	18"
C.M.P.	Added	"0" 13+23	32.0 Rt.		19.50	18"

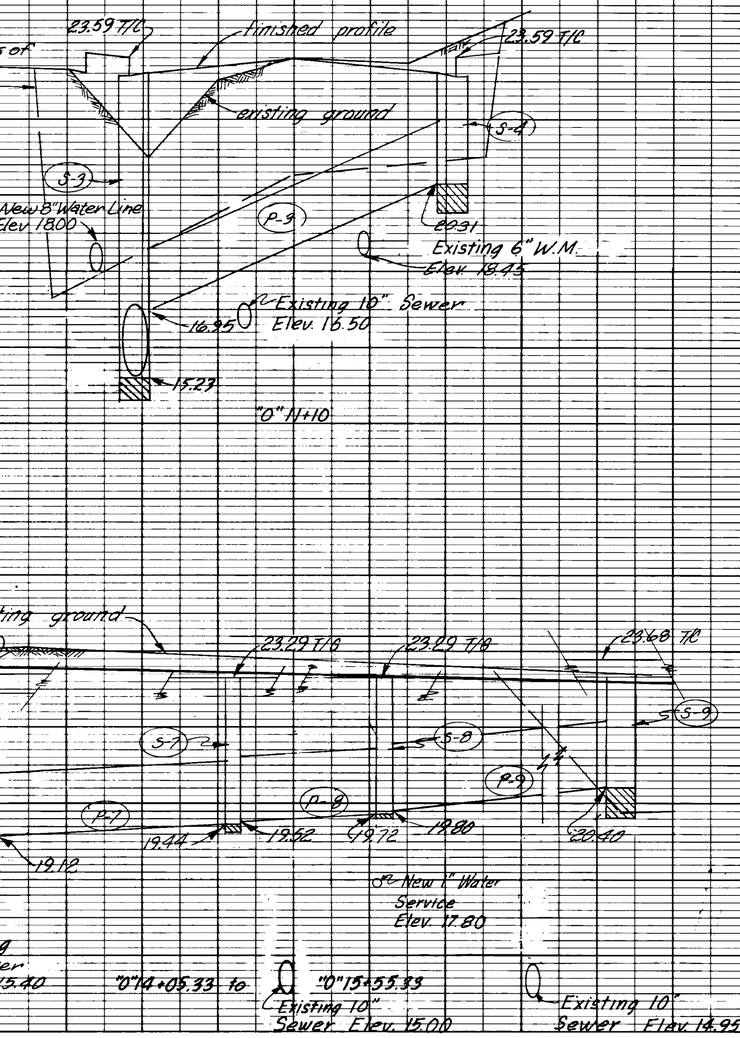
† = Top of Grate Elevation.
* = C.M.P. Inlet See Sheet 36 for Detail.

PIPE SUMMARY

Pipe Number	Pipe Diameter	Pipe Length	From Structure	From Invert Elev.	To Structure	To Invert Elev.
P-1A	24"	~~54'~~ 57'		~~18.74~~ 20.00	S-1	17.70
P-1	30"	~~80'~~ 79'	S-1	17.63	S-3	16.76
P-2	18"	~~8'~~ 9.6'	S-2	20.38	S-3	19.73
P-3	18"	42'	S-4	20.31	S-3	16.95
P-4	30"	82'	S-3	15.23	Outfall	14.00
P-5	24"	86'	S-5	17.19	Outfall	16.33
P-6	18"	~~74'~~ 70'	S-6	19.04	S-5	17.81
P-7	18"	~~30'~~ 25'	S-7	19.44	S-6	19.12
P-8	18"	18'	S-8	19.72	S-7	19.52
P-9	18"	60'	S-9	20.40	S-8	19.80
	12"	55'	19+59 18"CMP Inlet		13+59 18" INLET	
	12"	74'	13+59 18" CMP Inlet		11+91 24" Pipe Conduit	







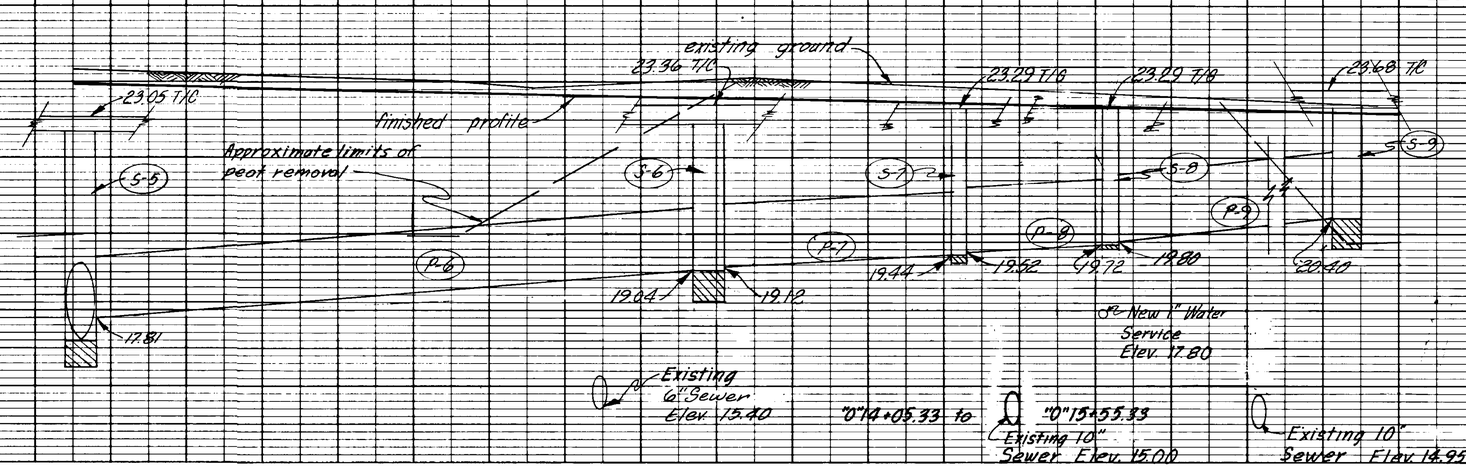
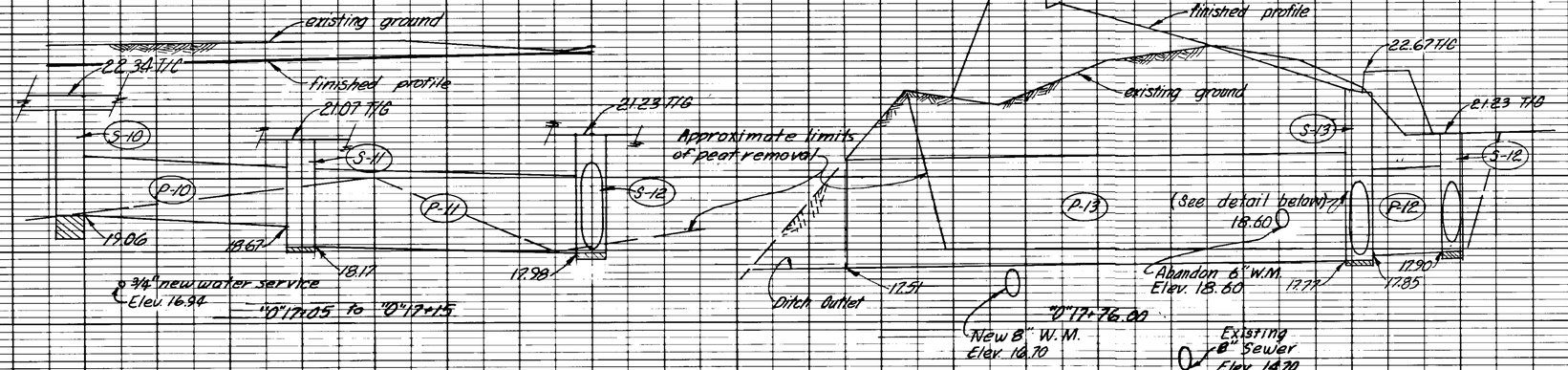


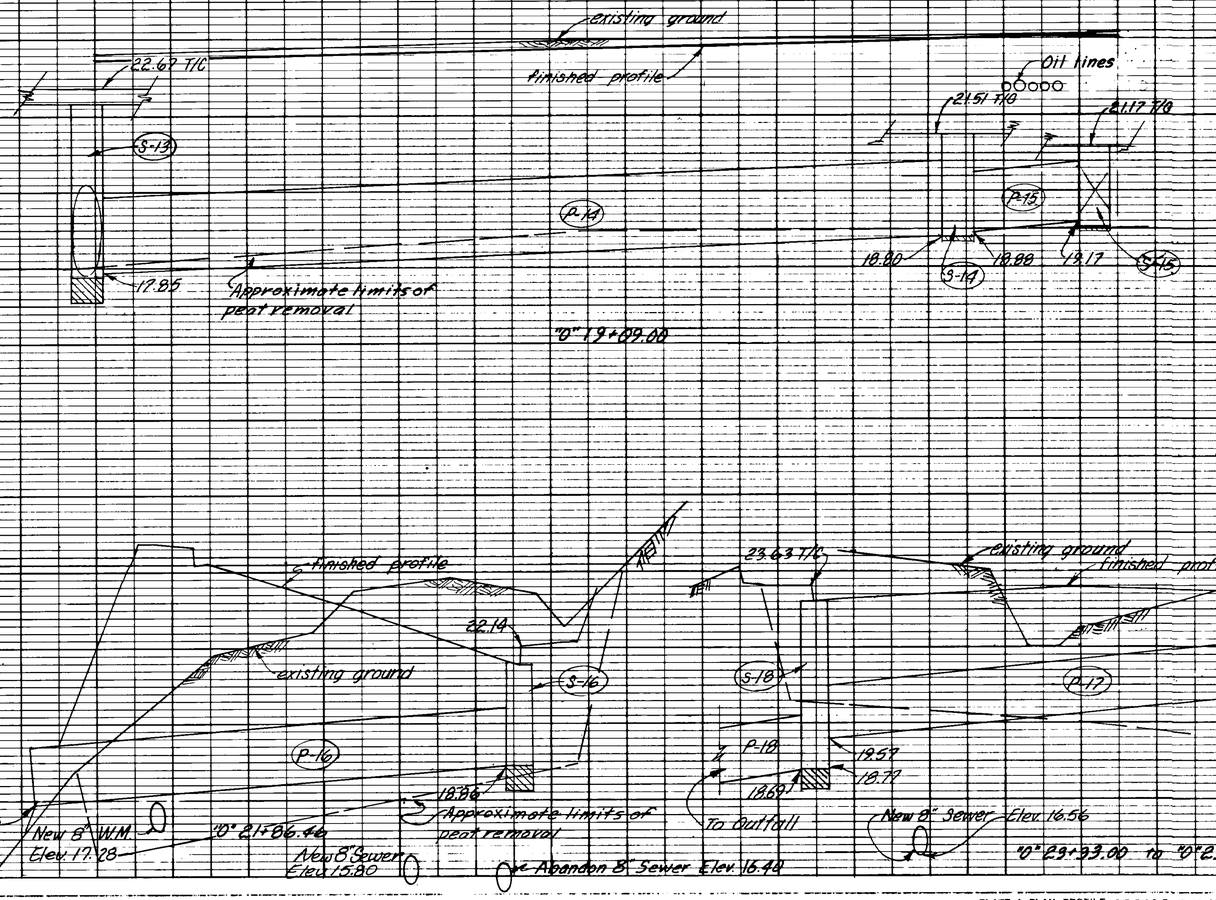
PLATE 1-PLAN-PROFILE C.P.R.&P.E. STANDARD
1/8IN. & 1/2IN. GRID ON WEATHERPROOF FILM. MADE AND PRINTED IN U.S.A.

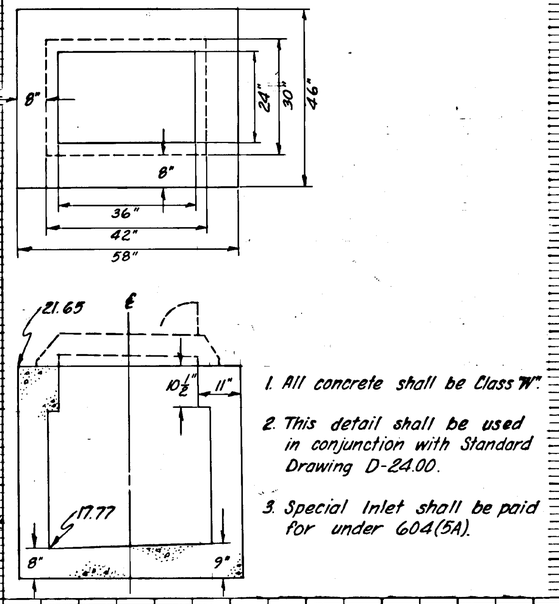
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	38	175

DRAINAGE PROFILE

T/I ~ 24" or 36" C.M.P. Inlet with Grate & Frame.
S/I ~ 24" or 36" C.M.P. Inlet with trashrack.
See Sheet No. 36 for details.
T/G ~ Top of Grate T/C ~ Top of Curb.
Note: Location of utilities as shown are approximate.
Offset distance is to back of curb for type A & B inlets and to centerline of C.M.P. inlets.
Note: All peat removal as shown on plans is approximate







SPECIAL INLET DETAIL

1. All concrete shall be Class "A".
2. This detail shall be used in conjunction with Standard Drawing D-24.00.
3. Special Inlet shall be paid for under 604(5A).

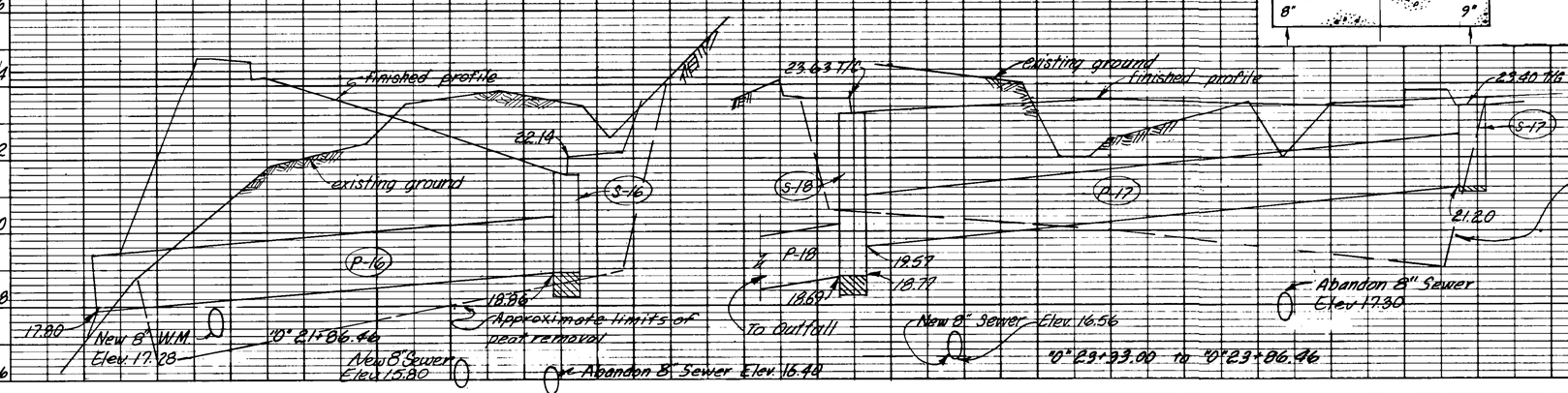
DRAINAGE STRUCTURE SUMMARY

Inlet Number	Type Inlet	Location Station	Location Offset	Elev. Top of Curb	Invert Elev.	C.M.P. Inlet Size
S-10	A	"0"17+05.33	22.5'Rt.	22.34	19.06	
S-11	*	"0"17+36.00	30.0'Rt.	21.07 †	18.00	24" T/I
S-12	*	"0"17+75	34.0'Rt.	21.23 †	17.73	36" T/I
S-13	Special	"0"17+75	22.5'Rt.	22.67	17.77	
S-14	*	"0"18+93	31.0'Rt.	21.51 †	18.63	24" T/I
S-15	DELETE	"0"19+09	31.0'Rt.	21.17 †	19.00	24" T/I
S-16	A	"0"21+86.46	22.5'Rt.	22.14	18.86	
S-17	*	"0"23+33	31.0'Rt.	23.40 †	21.03	24" T/I
S-18	B	"0"23+86.46	22.5'Lt.	23.63	18.69	

† = Top of Grate Elevation.
* = C.M.P. Inlet

PIPE SUMMARY

Pipe Number	Pipe Diameter	Pipe Length	from Structure	from Invert Elev.	To Structure	To Invert Elev.
P-10	18"	28'	S-10	19.06	S-11	18.67
P-11	24"	~~36~~ 32'	S-11	18.17	S-12	17.98
P-12	30"	~~42~~ 9	S-12	17.90	S-13	17.85
P-13	36"	70'	S-13	17.77	Outfall	17.51
P-14	24"	~~72~~ 109'	S-14	18.80	S-13	17.85
P-15	18"	Delete 14'	S-15	19.17	S-14	18.88
P-16	18"	64'	S-16	18.86	Outfall	17.80
P-17	18"	~~78~~ 71'	S-17	21.20	S-18	19.57
P-18	18"	56'	S-18	18.69	Outfall	17.53

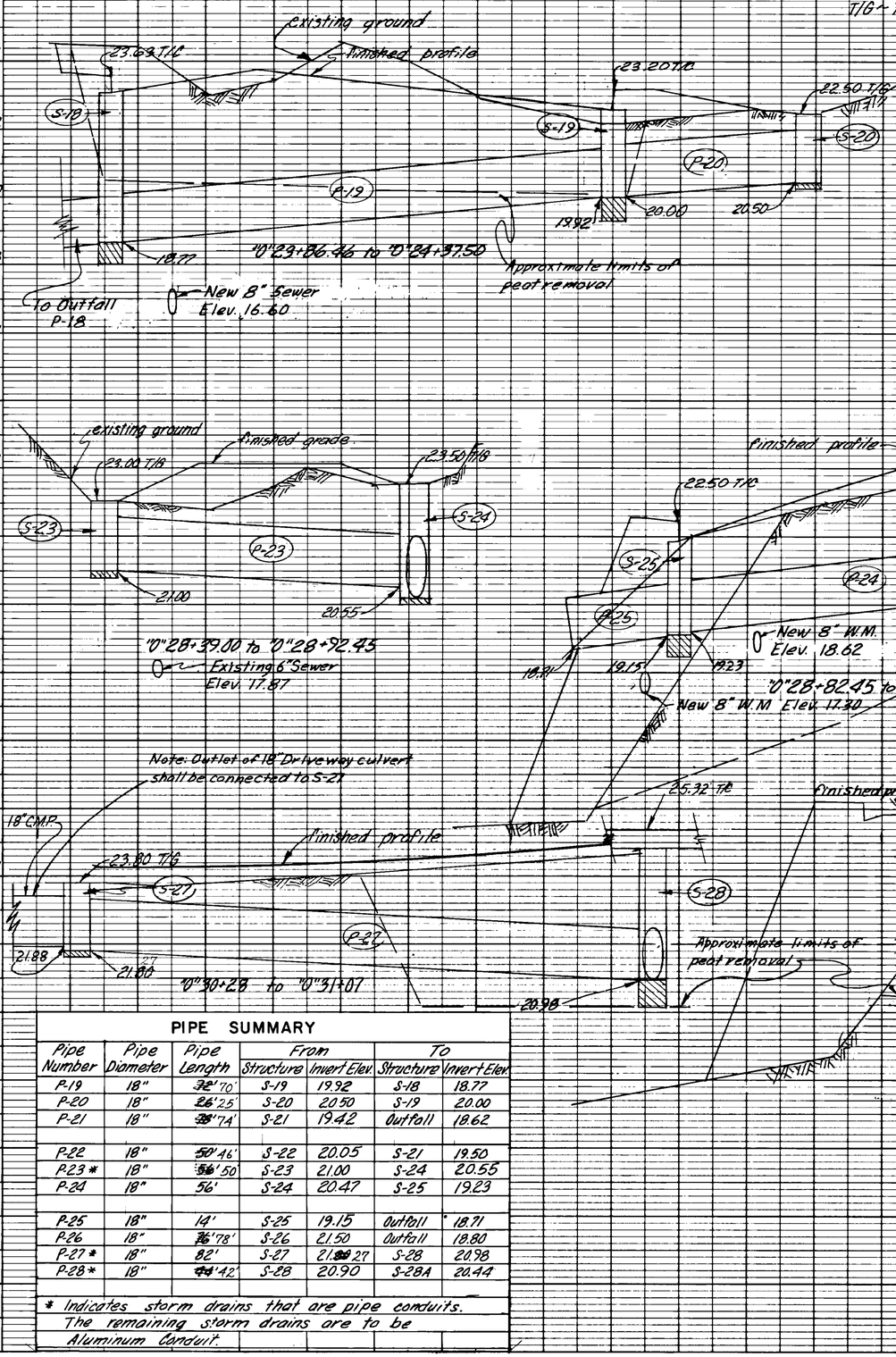


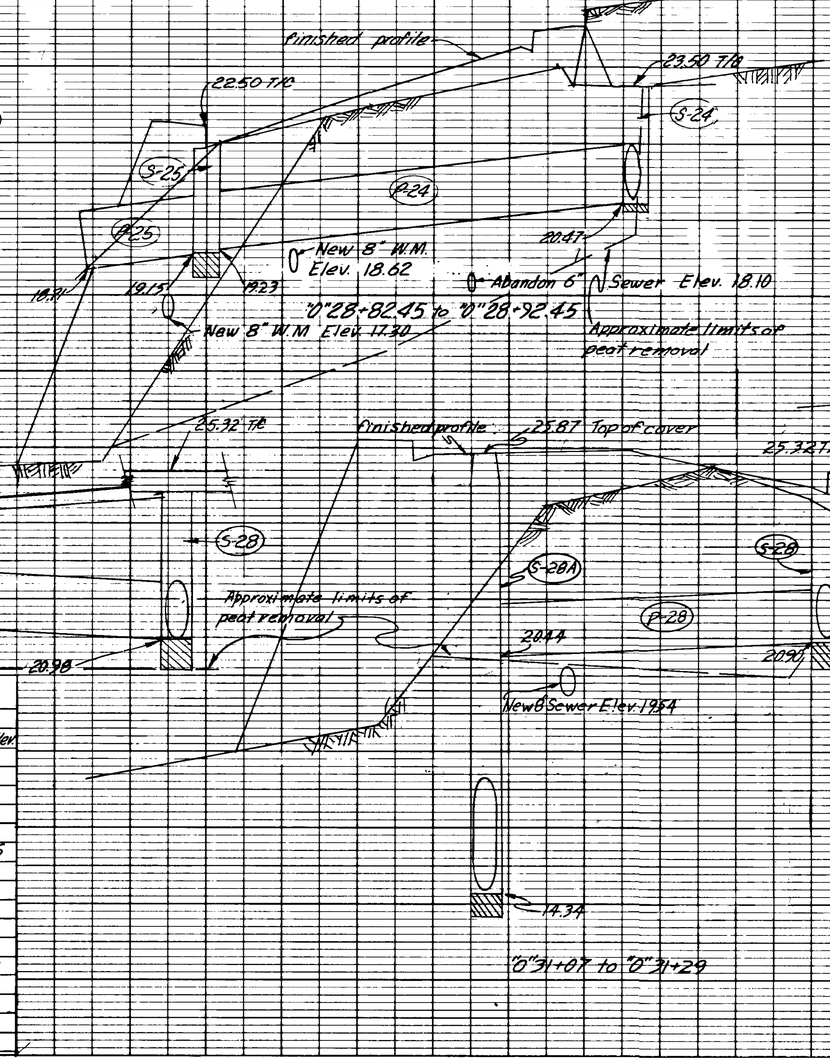
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	39	175

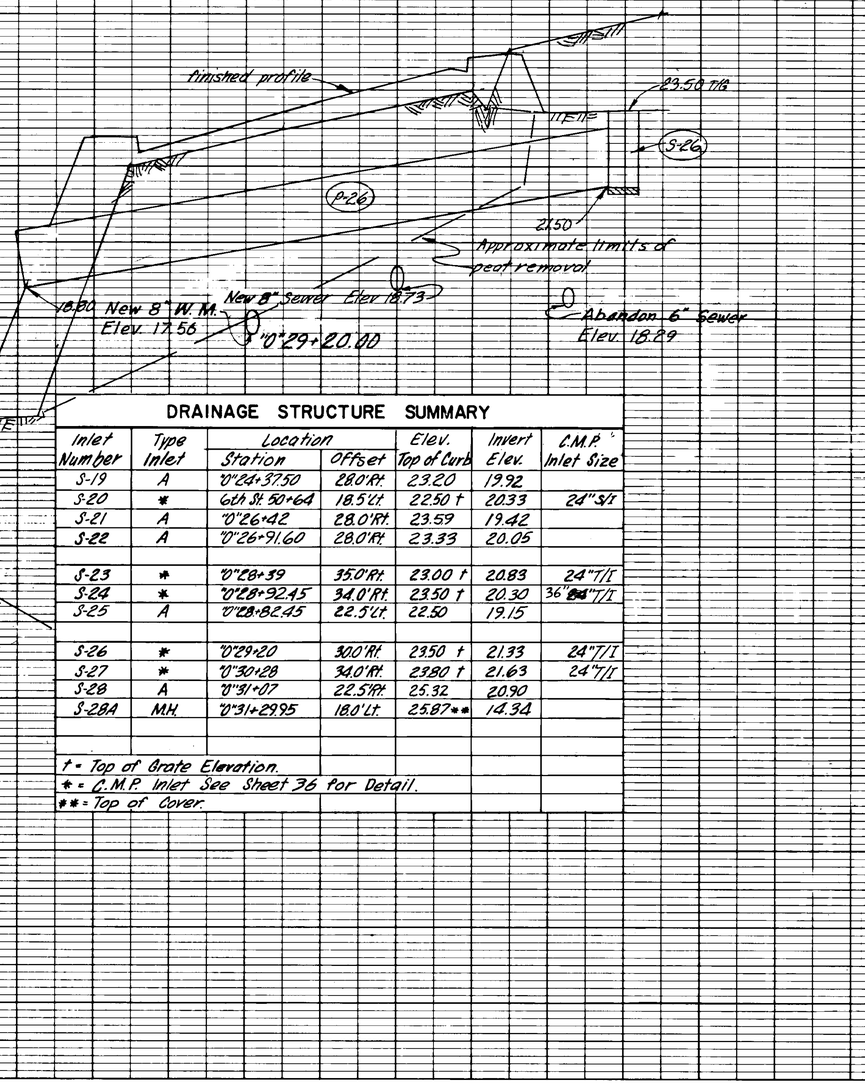
T/I = 24" or 36" C.M.P. Inlet with Grate & Frame.
S/I = 24" or 36" C.M.P. Inlet with trashrack.
See sheet No. 36 for details.
T/G = Top of Grate T/C = Top of Curb

Note: Location of utilities as shown are approximate.
Offset distance is to back of curb for type A & B inlets and to centerline of C.M.P. Inlets.

DRAINAGE PROFILE







DRAINAGE STRUCTURE SUMMARY

Inlet Number	Type Inlet	Location: Station	Location: Offset	Elev. Top of Curb	Invert Elev.	C.M.P. Inlet Size
S-19	A	"0"24+37.50	28.0' Rt.	23.20	19.92	
S-20	*	6th St. 50+64	18.5' Lt.	22.50 †	20.33	24" S/I
S-21	A	"0"26+42	28.0' Rt.	23.59	19.42	
S-22	A	"0"26+91.60	28.0' Rt.	23.33	20.05	
S-23	*	"0"28+39	35.0' Rt.	23.00 †	20.83	24" T/I
S-24	*	"0"28+92.45	34.0' Rt.	23.50 †	20.30	36" ~~24"~~ T/I
S-25	A	"0"28+82.45	22.5' Lt.	22.50	19.15	
S-26	*	"0"29+20	30.0' Rt.	23.50 †	21.33	24" T/I
S-27	*	"0"30+28	34.0' Rt.	23.80 †	21.63	24" T/I
S-28	A	"0"31+07	22.5' Rt.	25.32	20.90	
S-28A	M.H.	"0"31+29.95	18.0' Lt.	25.87 **	14.34	

† = Top of Grate Elevation.
* = C.M.P. Inlet See Sheet 36 for Detail.
** = Top of Cover.

PIPE SUMMARY

Pipe Number	Pipe Diameter	Pipe Length	From: Structure	From: Invert Elev.	To: Structure	To: Invert Elev.
P-19	18"	~~72'~~ 70'	S-19	19.92	S-18	18.77
P-20	18"	~~26'~~ 25'	S-20	20.50	S-19	20.00
P-21	18"	~~89'~~ 74'	S-21	19.42	Outfall	18.62
P-22	18"	~~50'~~ 46'	S-22	20.05	S-21	19.50
P-23 *	18"	~~56'~~ 50'	S-23	21.00	S-24	20.55
P-24	18"	56'	S-24	20.47	S-25	19.23
P-25	18"	14'	S-25	19.15	Outfall	18.71
P-26	18"	~~76'~~ 78'	S-26	21.50	Outfall	18.80
P-27 *	18"	82'	S-27	21.~~88~~ 27	S-28	20.98
P-28 *	18"	~~44'~~ 42'	S-28	20.90	S-28A	20.44

* Indicates storm drains that are pipe conduits. The remaining storm drains are to be Aluminum Conduit.

PLATE 1 - PLAN - PROFILE O.P.R. & P.E. STANDARD

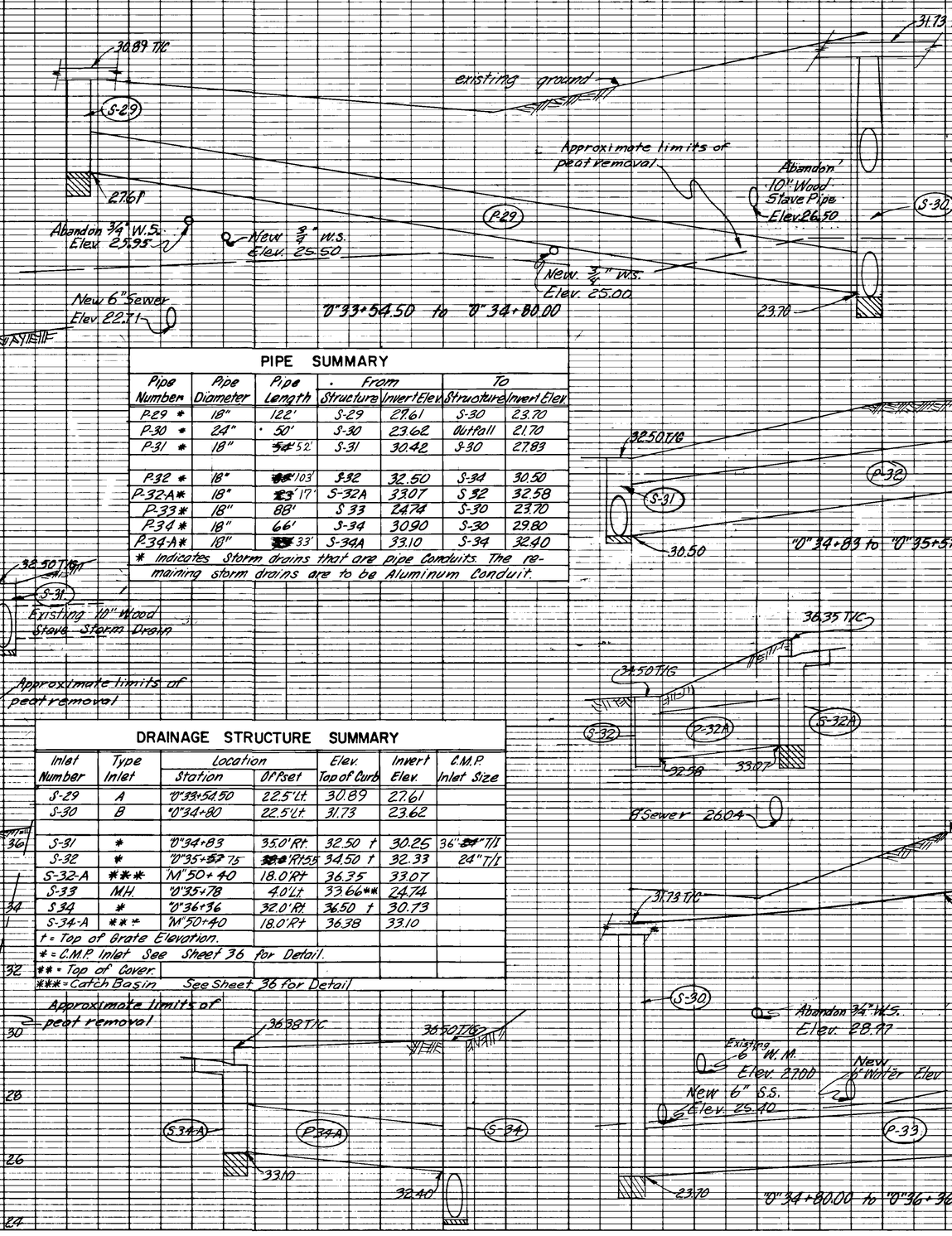
PLOTTED
DESIGN CHECKED
QUANTITIES CHECKED
ALIGNMENT CHECKED
B. MKS. NOTED
STRUCTURE NOTATIONS CHECKED
NOTE BOOK
NO.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	40	175

DRAINAGE PROFILE

T/I ~ 24" or 36" C.M.P. Inlet with Grate & Frame.
S/I ~ 24" or 36" C.M.P. Inlet with trashrack.
See sheet No. 36 for details.
T/G ~ Top of Grate. T/C ~ Top of Curb.

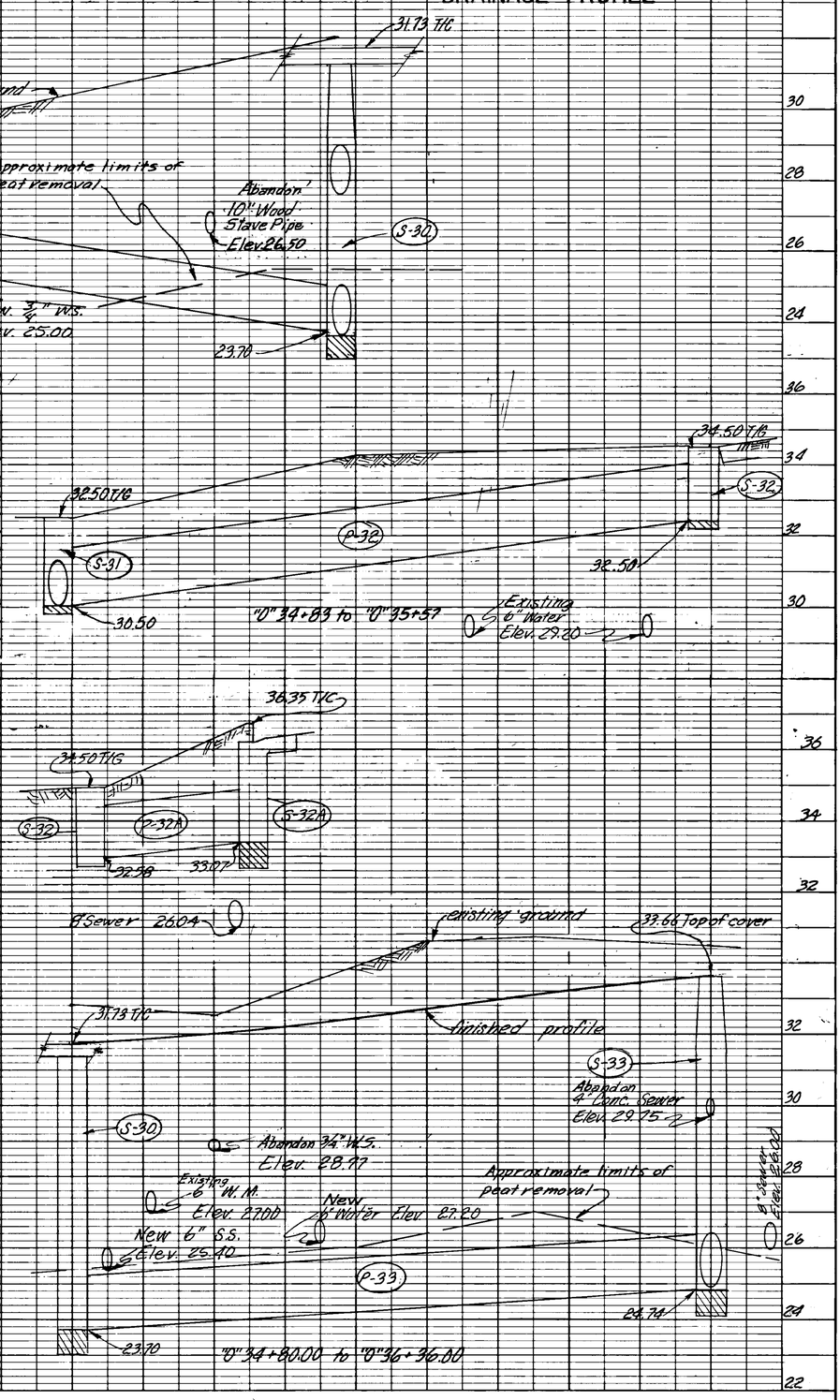
Note: Location of utilities as shown are approximate.
Offset distance is to back of curb for type A & B inlets and to centerline of C.M.P. Inlets.



PIPE SUMMARY

Pipe Number	Pipe Diameter	Pipe Length	From Structure	From Invert Elev.	To Structure	To Invert Elev.
P-29 *	18"	122'	S-29	27.61	S-30	23.70
P-30 *	24"	50'	S-30	23.62	Outfall	21.70
P-31 *	18"	~~54~~ 52'	S-31	30.42	S-30	27.83
P-32 *	18"	~~105~~ 103'	S-32	32.50	S-34	30.50
P-32-A *	18"	~~23~~ 17'	S-32A	33.07	S-32	32.58
P-33 *	18"	88'	S-33	24.74	S-30	23.70
P-34 *	18"	66'	S-34	30.90	S-30	29.80
P-34-A *	18"	~~33~~ 33'	S-34A	33.10	S-34	32.40

* Indicates Storm drains that are pipe Conduits. The remaining storm drains are to be Aluminum Conduit.



DRAINAGE STRUCTURE SUMMARY

Inlet Number	Type Inlet	Location Station	Location Offset	Elev. Top of Curb	Invert Elev.	C.M.P. Inlet Size
S-29	A	"0" 33+54.50	22.5' Lt.	30.89	27.61	
S-30	B	"0" 34+80	22.5' Lt.	31.73	23.62	
S-31	*	"0" 34+83	35.0' Rt.	32.50 †	30.25	36" ~~24~~ T/I
S-32	*	"0" 35+~~57~~ 75	~~32.0~~ 81.5' Rt.	34.50 †	32.33	24" T/I
S-32-A	***	"M" 50+40	18.0' Rt.	36.35	33.07	
S-33	MH	"0" 35+78	4.0' Lt.	33.66**	24.74	
S-34	*	"0" 36+36	32.0' Rt.	36.50 †	30.73	
S-34-A	**	"M" 50+40	18.0' Rt.	36.38	33.10	

† = Top of Grate Elevation.
* = C.M.P. Inlet See Sheet 36 for Detail.
** = Top of Cover.
*** = Catch Basin See Sheet 36 for Detail

PLATE 1 - PLAN - PROFILE O.P.R.&W.E. STANDARD

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	41	175

DRAINAGE PROFILE

T/I ~ 24" or 36" CMP Inlet with Grate & Frame.
S/I ~ 24" or 36" C.M.P. Inlet with trashrack.
See sheet No 36 for details
T/B ~ Top of grate, T/C ~ Top of curb.

Note: Location of utilities as shown are approximate.
Offset distance is to back of curb for type A & B inlets and to centerline of C.M.P. inlets.

33.66 Top of Cover
S-33
24.84
P-35
Exist. 3/4" W.S. Elev. 29.20
New 3/4" W.S. Elev. 27.75
New 6" Sewer Cross over Culvert.
Abandon 3/4" W.S. Elev. 28.73
New 3/4" W.S. Elev. 29.00
Abandon 6" W.S. Elev. 28.60
28.46
33.70 T/C
S-35
Existing 6" Sewer Elev. 25.80
"D" 35+78.00 to "D" 38+24.00
Approximate limits of peat removal
33.70 T/C
S-35
33.45 T/C
S-36
33.15 T/C
S-37
29.87
P-37
29.52
29.44
Abandoned 4" W.M.
Elev. 28.53
28.54
New 3/4" W.S. Elev. 27.50
P-36
8" Sewer Elev. 25.20
8" Sewer Elev. 24.60
"D" 38+24.00 to "D" 38+84.00
27.28 T/C
S-38
24.00
Abandon 3/4" W.S. Elev. 22.93
New 3/4" W.S. Elev. 21.53
Existing 6" Sewer Lateral Elev. 21.14
Abandon 3/4" W.S. Elev. 21.25
New 3/4" W.S. Elev. 19.83
P-38
"D" 41+50.00 to "D" 43+48.00
Approximate Limits of Peat Removal
23.14 T/C
S-39
22.87 T/C
S-40
19.86
19.78
P-39
P-40
19.59
Existing 6" Sewer Elev. 17.30
12.0" S.A.P.
17.00
18.00
14.60
*Note: 18" C.A.P. Stubs shall be a minimum of 1' in length and shall be shop fabricated. The invert elevation may be adjusted to allow placement of stubs.
23.38 T/C
S-41
20.10
P-41
17.00
18.00
12.0" S.A.P.
Approximate limits of peat removal
"D" 43+28.00 to "D" 43+63.00
22.76 T/C
S-42
16.36
New 8" W.M. Elev. 15.40
15.74
16.44
Exist. 8" Sewer A.C.P. Elev. 15.80
16.72
16.80
P-42
P-43
Abandon 6" W.M. Elev. 19.00
S-43
Existing 6" Water Main Elev. 18.90
"D" 47+38.00 to "D" 48+17
22.67 T/C
22.78 T/C
S-44
P-44
17.23
Existing 8" A.C.P. Sewer Elev. 15.90
21.70 T/G
S-47
P-47
19.70
18.73

PIPE SUMMARY

Pipe Number	Pipe Diameter	Pipe Length	From Structure	From Invert Elev.	To Structure	To Invert Elev.
P-35 *	18"	~~240~~ 241'	S-35	28.46	S-33	24.84
P-36 *	18"	98'	S-36	29.44	S-35	28.54
P-37 *	18"	~~96~~ 38'	S-37	29.87	S-36	29.52
P-38	18"	154'	S-38	24.00	S-39	19.86
P-39	18"	~~78~~ 20'	S-39	19.78	Outfall	~~18.00~~ 17.00
P-40	18"	~~76~~ 14'	S-40	19.59	Outfall	~~18.00~~ 17.00
P-41	18"	30'	S-41	20.10	Outfall	~~18.00~~ 17.00
P-42	24"	22'	S-42	16.36	Outfall	15.74
P-43	24"	52'	S-43	16.72	S-42	16.44
P-44	18"	52'	S-44	17.23	S-43	16.80
P-47	18"	~~20~~ 17'	S-47	19.70	S-44	18.73

* Indicates storm drains that are pipe conduits. The remaining storm drains are to be Aluminum Conduit.

DRAINAGE STRUCTURE SUMMARY

Inlet Number	Type Inlet	Location Station	Location Offset	Elev. Top of Curb	Invert Elev.	C.M.P. Inlet Size
S-35	A	"D" 38+24	22.5' Lt.	33.70	28.46	
S-36	A	"D" 38+42	22.5' Rt.	33.45	29.44	
S-37	A	"D" 38+84	22.5' Rt.	33.15	29.87	
S-38	A	"D" 41+50	22.5' Rt.	27.28	24.00	
S-39	A	"D" 43+10	22.5' Rt.	23.14	19.78	
S-40	A	"D" 43+48	22.5' Rt.	22.87	19.59	
S-41	A	"D" 43+63	22.5' Lt.	2338	20.10	
S-42	A	"D" 47+33	22.5' Lt.	22.76	16.36	
S-43	A	"D" 47+47	29.0' Rt.	22.67	16.72	
S-44	A	"D" 50+08	17.0' Rt.	22.78	17.23	
S-47	*	"D" 48+17	46.0' Rt.	21.70 †	19.53	24" S/I

† = Top of Grate Elevation
* = C.M.P. Inlet See Sheet 36 for Detail.

PLATE 1 - PLAN - PROFILE O. P. R. & R. K. STANDARD
1280M 2 REPROOF FILM - MADE AND PRINTED IN U. S. A.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	42	175

DRAINAGE PROFILE

T/I ~ 24" or 36" C.M.P. Inlet with Grate & Frame.
S/I ~ 24" or 36" C.M.P. Inlet with trashrack.
See sheet No. 36 for details.
T/G ~ Top of Grate. T/C ~ Top of Curb.

Note: Location of utilities as shown are approximate. Offset distance is to back of curb for type A&B inlets and to centerline of C.M.P. Inlets.

DRAINAGE STRUCTURE SUMMARY

Inlet Number	Type Inlet	Location Station	Location Offset	Elev. Top of Curb	Invert Elev.	C.M.P. Inlet Size
S-45	*	"Lu" 50+46	18.0' Lt.	24.30 †	21.28	24" S/I
S-46	*	"Lu" 50+46	18.0' Rt.	24.30 †	21.72	24" S/I
S-48	A	"D" 52+~~14~~09	22.5' Lt.	23.87	18.04	
S-49	A	"D" 52+~~38~~50	22.5' Rt.	24.70	19.26	
S-50	A	"H" 50+31	20.0' Rt.	26.14	20.06	
S-51	A	"H" 50+33	25.0' Lt.	26.40	23.12	
S-52	A	"B" 50+31.50	17.0' Rt.	22.29	19.01	
S-53	M.H. (Std)	"B" 50+27.50	9.0' Lt.	22.07**	15.80	
S-54	A	"G" 50+31.50	17.0' Lt.	22.29	19.01	
S-55	A	"D" 56+48	22.5' Rt.	22.62	19.34	
S-56	M.H. (Std)	"D" 56+44	48.5' Lt.	21.50 * †	11.02	
S-57	A	"D" 56+53	22.5' Lt.	22.63	19.34	
S-58	A	"B" 49+33	12.0' Lt.	22.25	18.50	
S-59	A	"B" 49+33	12.0' Rt.	22.25	18.97	
S-60	*	"G" 49+42	18.0' Rt.	22.10 †	19.15	24" S/I
S-61	*	"G" 48+81	30.0' Lt.	21.60 †	19.43	24" S.I
S-62	Exist. M.H.	"A" 9+30	8.5' Rt.	22.55**	Existing	

† = Top of Grate Elevation.
* = C.M.P. Inlet See Sheet 36 for Detail.
** = Top of Cover.

PIPE SUMMARY

Pipe Number	Pipe Diameter	Pipe Length	From Structure	From Invert Elev.	To Structure	To Invert Elev.
P-45	18"	34'	S-45	21.36	S-44	18.73
P-46 *	18"	34'	S-46	21.80	S-45	21.44
P-48	18"	~~#8~~ 107'	S-48	~~18.04~~ 16.86	Outfall	~~16.00~~ 14.00
P-49	18"	~~70~~ 60'	S-49	~~19.26~~ 18.21	S-48	~~18.18~~ 17.17
P-50	18"	~~64~~ 130'	S-50	~~20.06~~ 18.17	S-~~49~~ 48	~~19.34~~ 16.86
P-51 *	18"	~~42~~ 41'	S-51	23.12	S-50	22.52
P-52	18"	~~26~~ 24'	S-52	19.01	S-53	17.90
P-53	18"	26'	EXIST. CONC. PIPE	19.35	S-53	17.90
P-54	18"	~~8~~ 5'	S-54	19.01	S-53	16.00
P-55	18"	~~38~~ 37'	S-55	19.34	S-53	18.33
P-56	24"	~~82~~ 90'	S-53	~~15.80~~ 14.72	S-56	~~14.96~~ 13.88
P-57	18"	~~28~~ 23'	S-57	19.34	S-56	17.78
P-58	18"	~~24~~ 29'	S-58	18.50	S-56	17.82
P-59	18"	~~22~~ 19'	S-59	18.97	S-58	18.58
P-60	18"	~~10~~ 9'	S-60	19.30	S-59	19.07
P-61	18"	~~43~~ 61'	S-61	19.60	S-62	17.43

* Indicates storm drains that are pipe conduits. The remaining storm drains are to be Aluminum Conduits.

"Lu" 50+08 to "Lu" 50+56

"Lu" 50+46

"D" 50+84 to "D" 52+14

"D" 52+14.00 to "G" 50+27.50

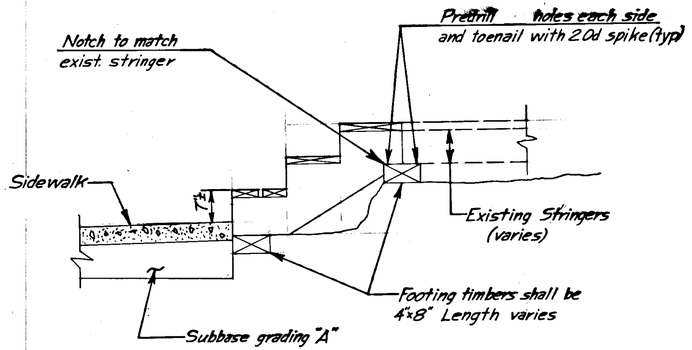
"G" 50+27.50

"D" 56+44.00 to "D" 50+27.50

"G" 48+19.00 to "X" 10+70.00

"D" 56+44.00 to "B" 49+33

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	43	175

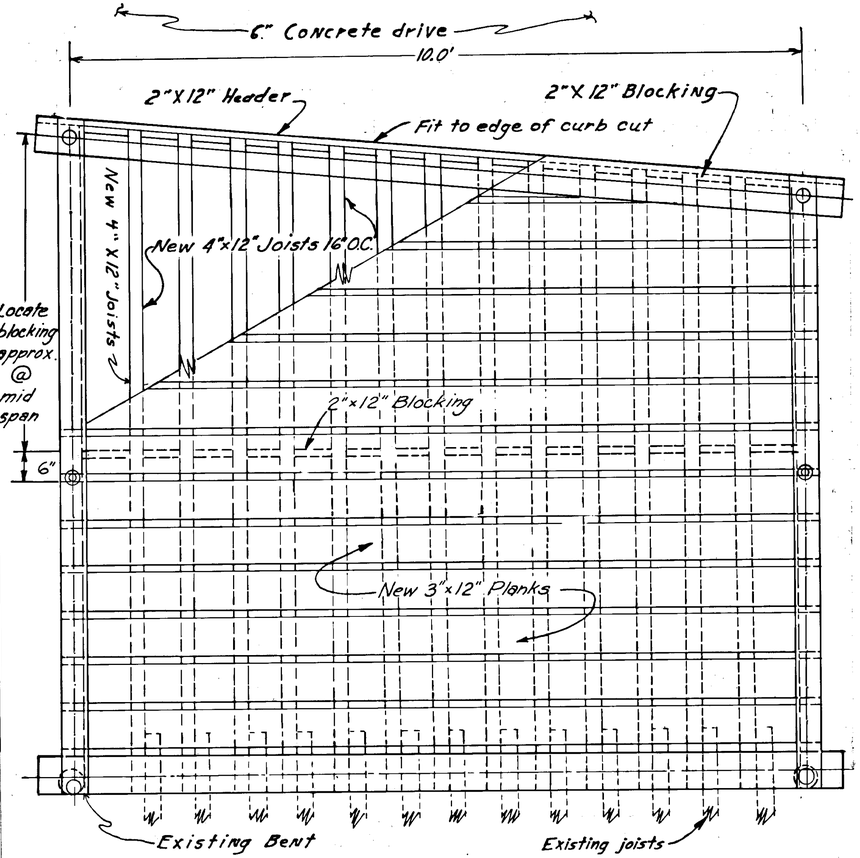


WOODEN STAIR & SIDEWALK DETAIL

NOTES

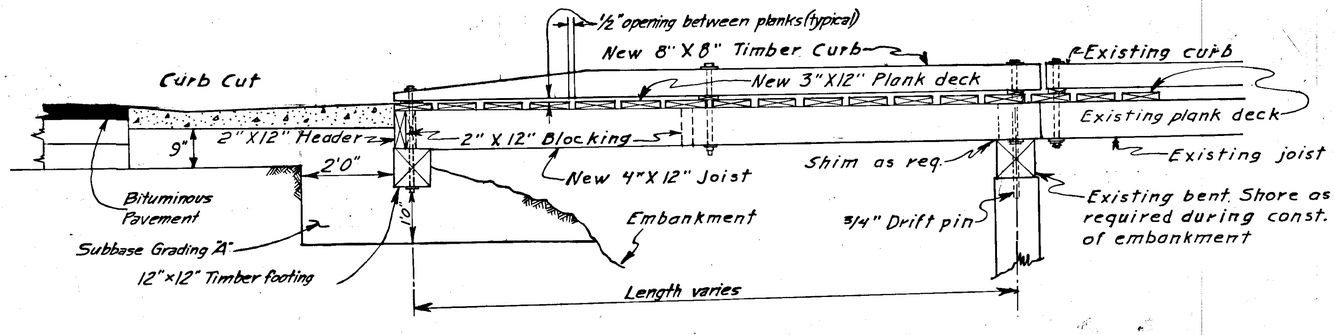
1. If stairs require 3 or more risers, Standard Drawing M-05.00 shall be used in lieu of this detail.
2. Wooden stairs and sidewalks shall be field fit to match existing walks to new concrete sidewalk.
3. Existing structures not being removed shall be protected during construction of embankment.
4. Handrails will not be required on sidewalks or on stairs with 3 risers or less.
5. Footing timbers shall extend 2" outside the outer stringers
6. All stairs with 3 risers or less and sidewalks wider than 3' shall have three stringers.
7. All lumber dimensions and nail sizes shall conform to Standard Drawing M-05.00 except 2"x8" stringers may be used on the wooden sidewalks or as directed by the engineer.
8. Wooden sidewalks shall have a 2.00% maximum slope, or as directed by the engineer.
9. The landing length and width shall be varied in lieu of Standard Drawing M-05.00 to fit field conditions.
10. Where applicable and the walk is in a down grade situation, Standard Drawing M-05.00 shall be utilized with the landing to match back of sidewalk grade.
11. Footings, posts, and field cuts in contact with the ground shall be treated with preservative creosote oils. Water born preservatives shall be used above ground in accordance with the latest standards of the American Wood Preserver's Association.
12. All timber shall be S-4-S, construction grade f=1200 p.s.i. minimum, Douglas fir or Hemlock.
13. The length and width of new timber approaches shall match the existing.
14. All ferrous metals shall be galvanized.
15. Furnish and install wood bracing as required by the engineer.

WOODEN STRUCTURES CONNECTION DETAILS



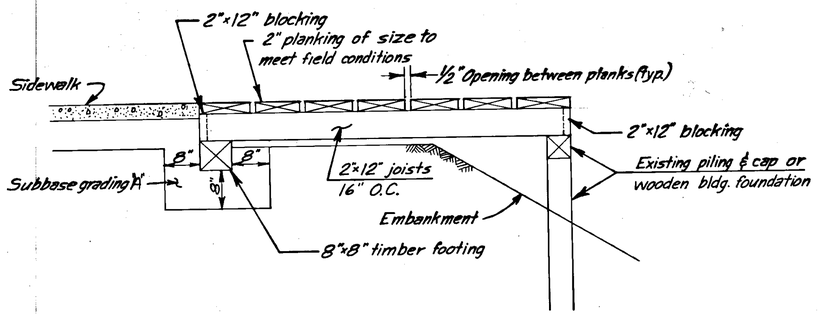
NOTES

1. All new dimensions are nominal and shall conform to match the existing construction.
2. All lumber shall be construction grade, 1200 p.s.i., S-4-S, Douglas Fir or Hemlock, pressure treated.
3. Pressure treatment shall be coal tar creosote or cresote coal tar solution 20 lbs per cubic foot in outer two inches as specified in Federal Specification TT-W-571g.
4. All ferrous metals shall be galvanized.



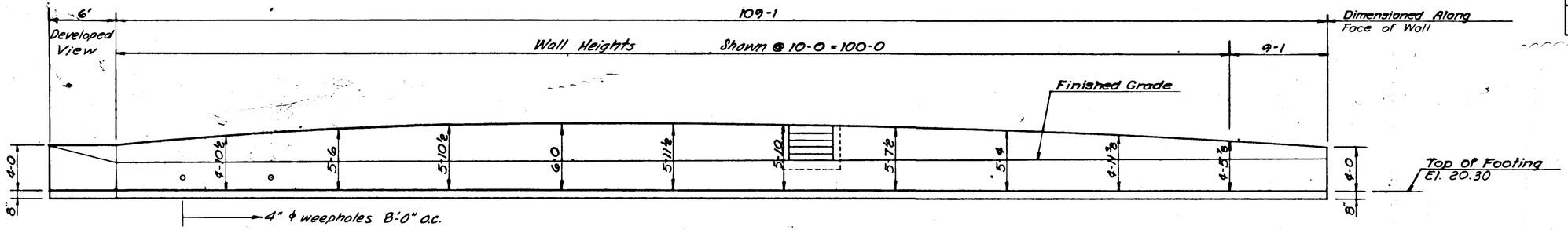
STANDARD & UNION OIL DOCK CONNECTION DETAILS

NOTE: All timber shall be securely fastened with 20d galvanized nails

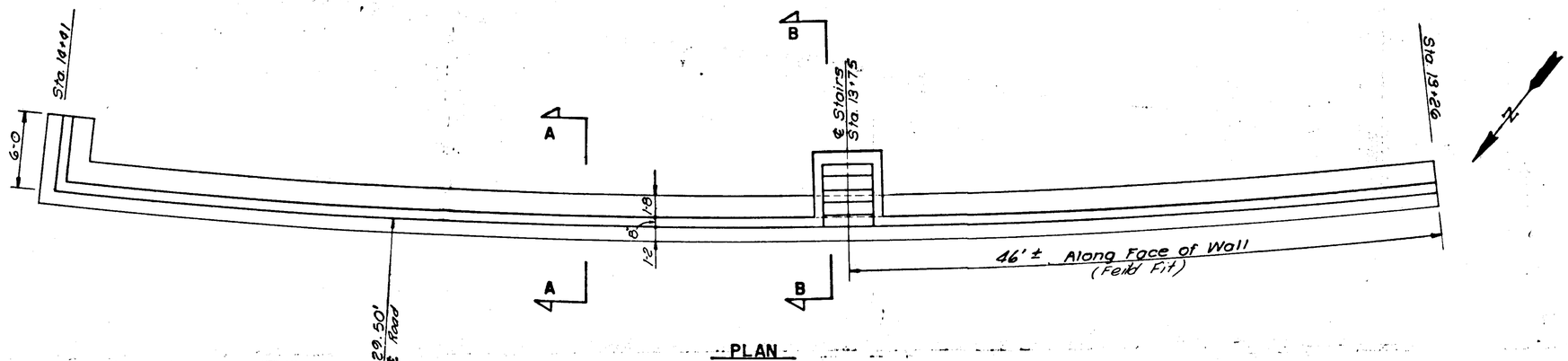


PLANK DRIVEWAY DETAIL

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	44	175



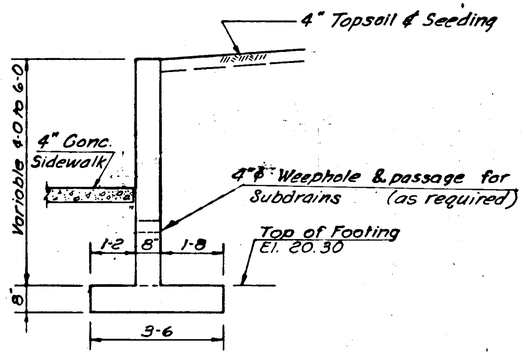
DEVELOPED ELEVATION



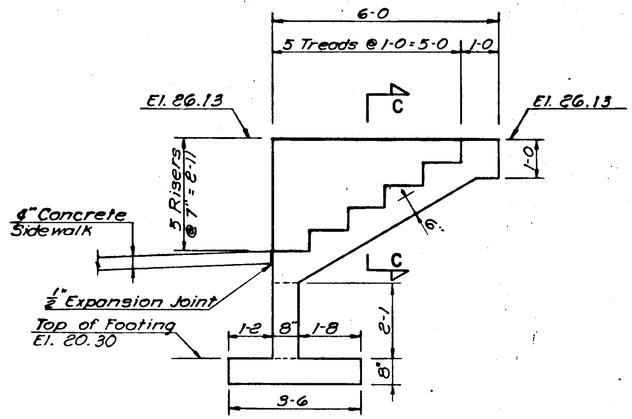
PLAN

Provide Expansion & Contraction Joints as required. See sheet No. 47.

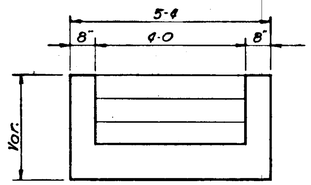
General Notes on sht. No. 47.



SECTION A-A



SECTION B-B



SECTION C-C

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

DESIGN RAW
DR. BY EES
CK. BY DS
DATE
JOB NO. 170-071

REINFORCED CONCRETE RETAINING WALL "A"

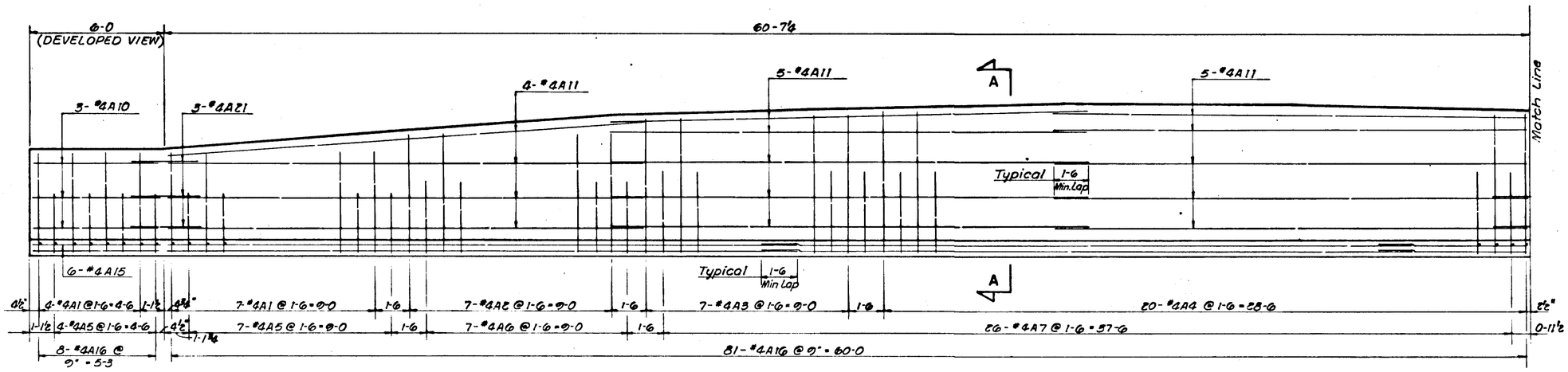
RT. STA. 13+26 TO STA. 14+41

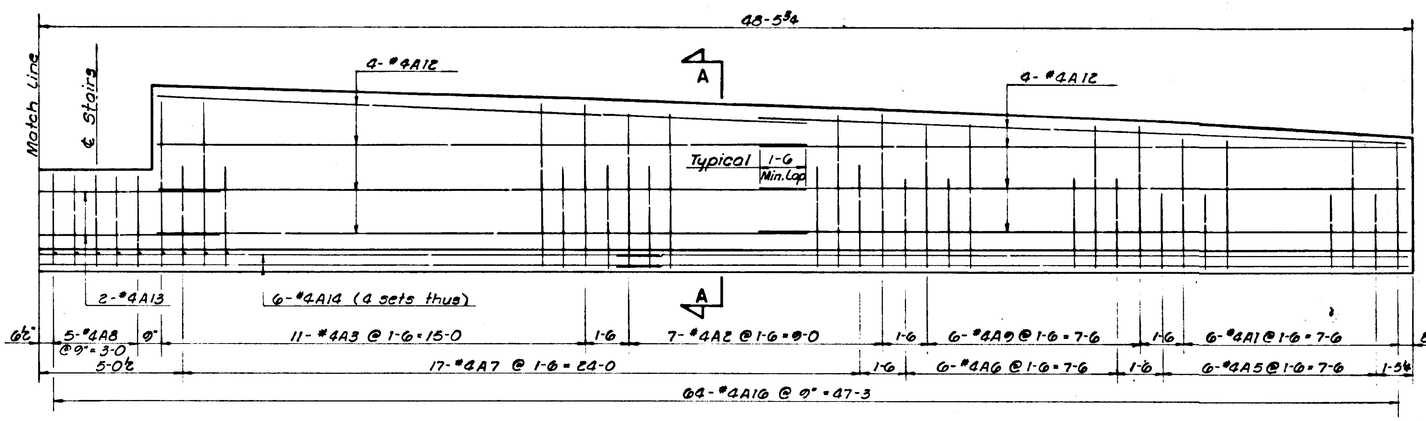
W K V H

WYLLER - KILLEWICH - VAN DOREN & HAZARD
ENGINEERS - ARCHITECTS
ANCHORAGE, ALASKA

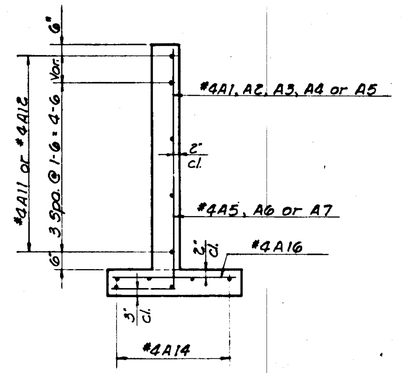
SHEET

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0927(10)	1973	45	175

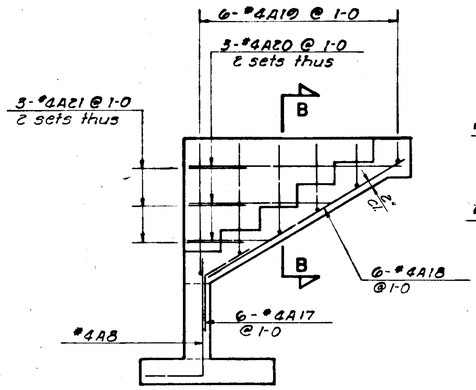


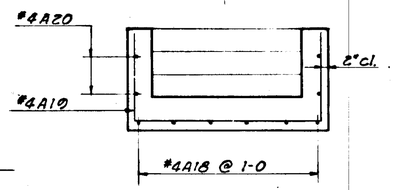


WALL ELEVATION



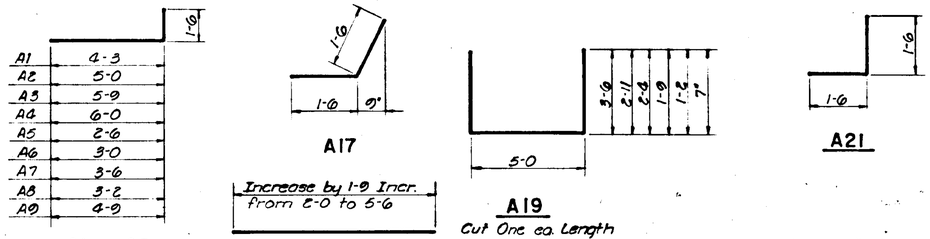
SECTION A-A





SECTION B-B

STAIR REINFORCING DETAILS



BENDING DIAGRAMS

Bar dimensions are Out to Out

BAR SCHEDULE WALL "A"			
Mark	Size	No.	Length
A1	4	17	5-9
A2	4	14	6-6
A3	4	18	7-3
A4	4	20	7-6
A5	4	17	4-0
A6	4	13	4-6
A7	4	43	5-0
A8	4	5	4-8
A9	4	6	6-3
A10	4	3	5-8
A11	4	14	21-0
A12	4	8	23-0
A13	4	2	9-0
A14	4	24	28-9
A15	4	6	5-8
A16	4	153	3-2
A17	4	6	3-0
A18	4	6	6-0
A19	4	6	*
A20	4	6	*
A21	4	9	3-0

* See Bending Diagrams
See General Note No. 6
Sheet #47 for Temperature

SUMMARY OF QUANTITIES WALL "A"	
Class A Concrete	25.8 Cu. Yds.
Reinforcing Steel	2547 Lbs.
Class 1 Excavation for Structures	94 Cu. Yds.

Note: For retaining wall General Notes, See Sht. No. 47.

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

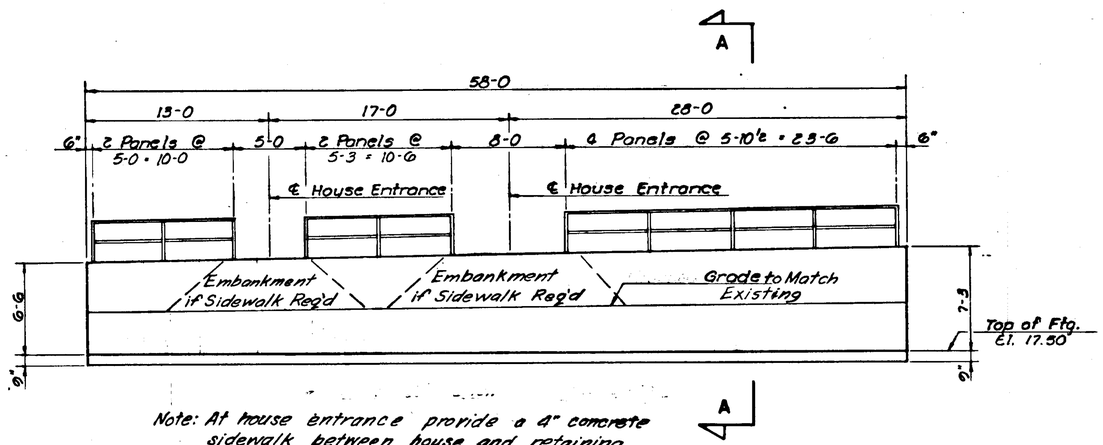
DESIGN RAW
DR. BY EES
CK. BY DS
DATE
JOB NO. 120-071

REINFORCED CONCRETE RETAINING WALL "A"
RT. STA. 13+26 TO STA. 14+41

WYLLER – KILLEWICH – VAN DOREN & HAZARD
ENGINEERS · ARCHITECTS

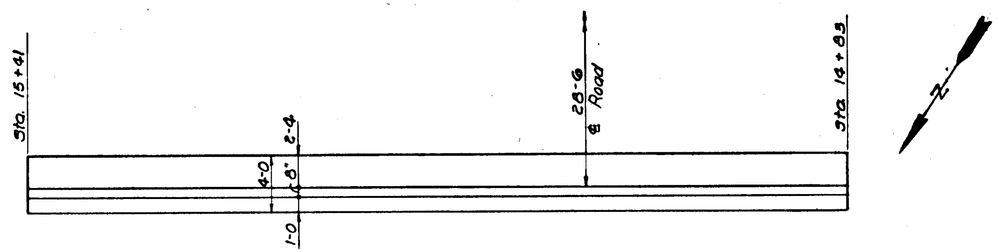
SHEET

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	46	175

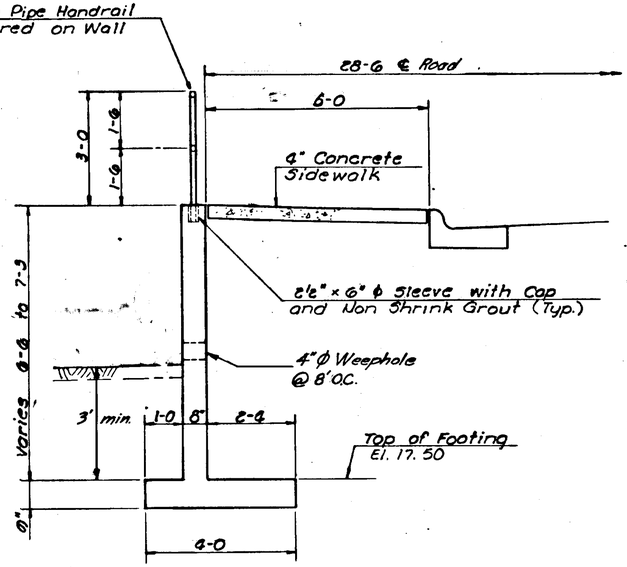


Note: At house entrance provide a 4" concrete sidewalk between house and retaining wall if required by Engineer. Sidewalks to be field dimensioned

ELEVATION



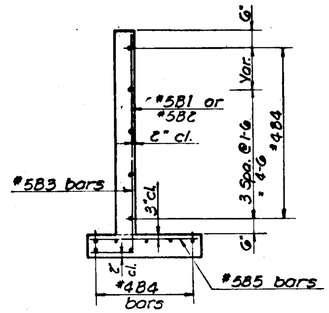
PLAN



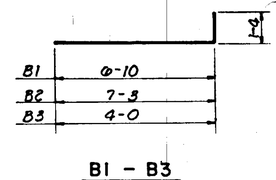
SECTION A-A

BAR SCHEDULE WALL "B"			
Mark	Size	No.	Length
B1	5	20	8-2
B2	5	19	8-7
B3	5	38	5-4
B4	4	24	20-8
B5	5	58	3-8

See General Note No 6 Sheet 47 For temperature steel placement

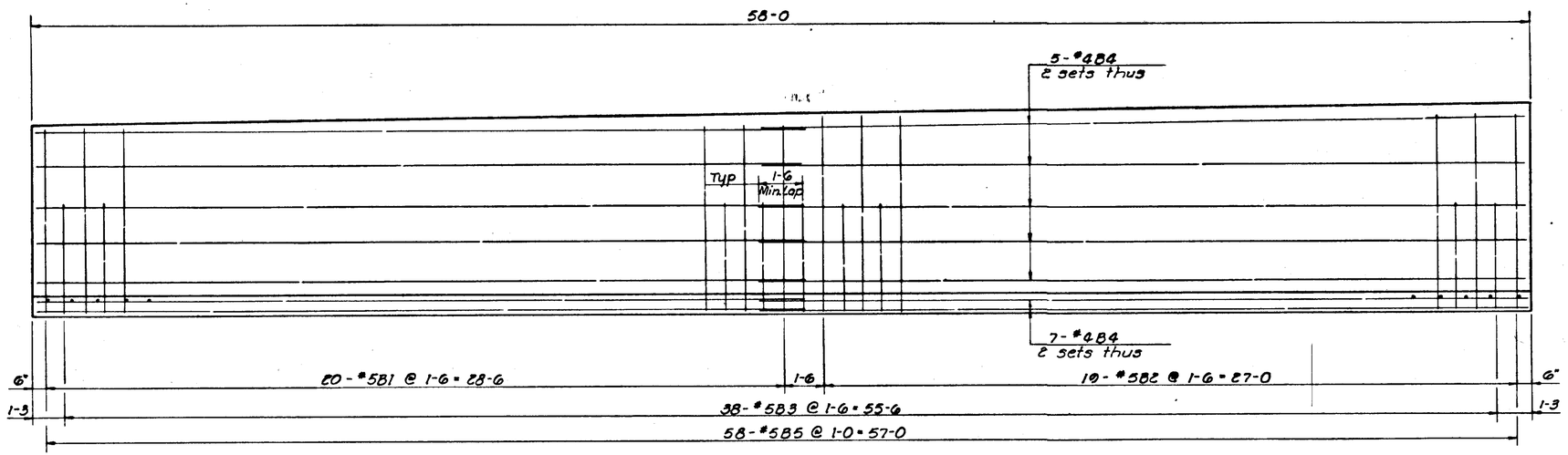


WALL SECTION



B1 - B3

BENDING DIAGRAMS
Bar Dimensions are Out to Out



WALL ELEVATION

SUMMARY OF QUANTITIES WALL "B"		
Class A Concrete	16.3	Cu. Yd.
Reinforcing Steel	1607	Lbs.
Class 1 Excavation for Structures	23	Cu. Yd.

Note: For retaining wall General Notes, See Sht. No. 47

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

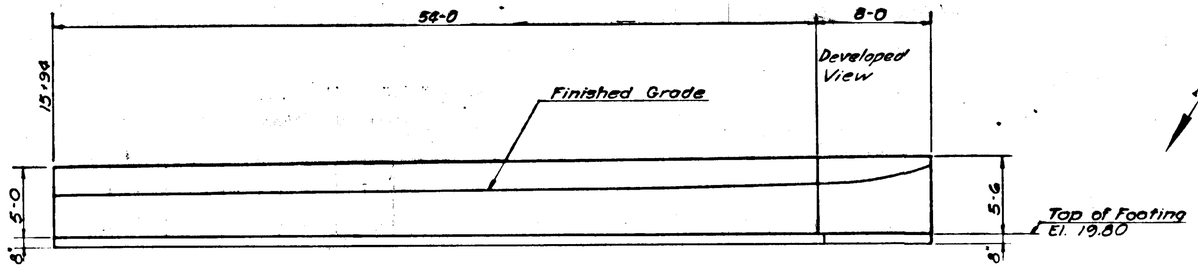
DESIGN	RAW
DR. BY	EES
CK. BY	DS
DATE	
JOB NO.	70-071

REINFORCED CONCRETE RETAINING WALL "B"
LT. STA. 14+83 TO STA. 15+41

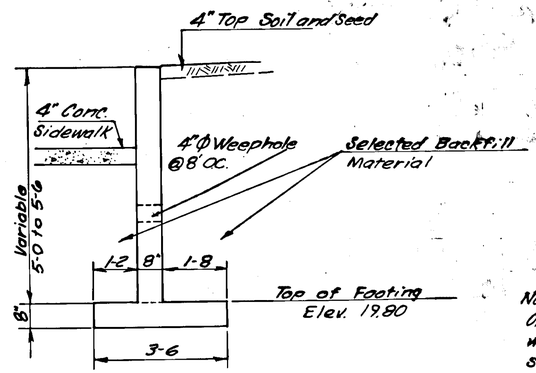
WYLLER - KILLEWICH - VAN DOREN & HAZARD
ENGINEERS - ARCHITECTS
JUNEAU, ALASKA

SHEET 21

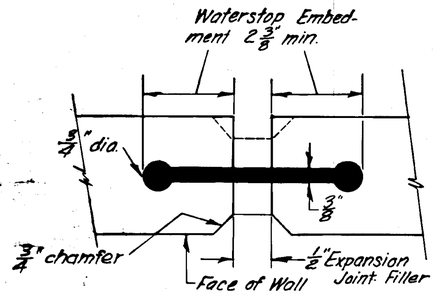
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	47	175



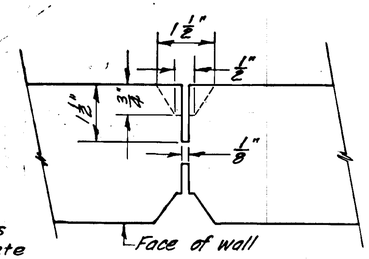
DEVELOPED ELEVATION OF WALL



SECTION A-A

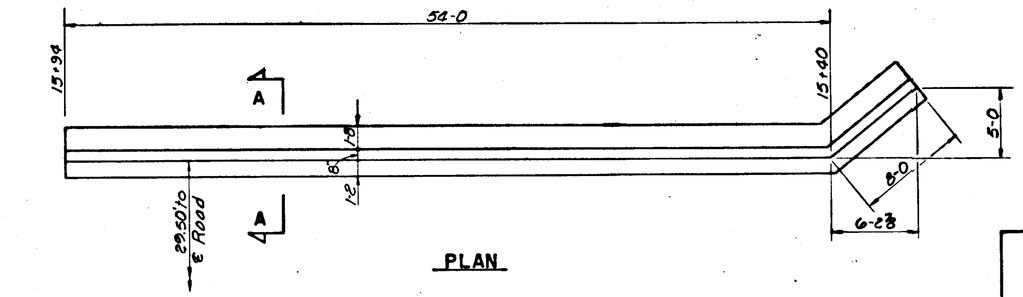


EXPANSION JOINT DETAIL

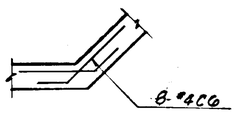


Note: Omit chamfers where concrete surfaces are not exposed.

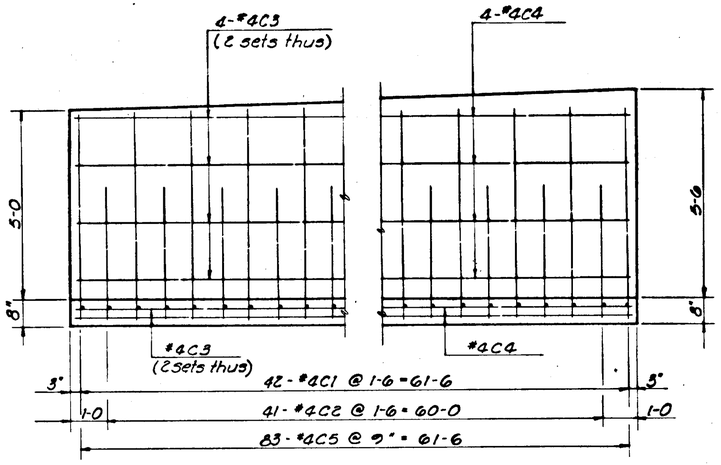
CONTRACTION JOINT DETAIL



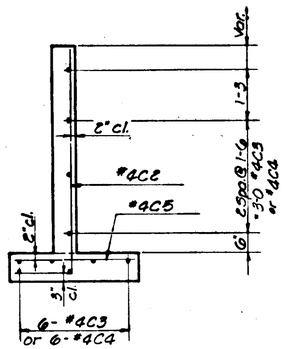
PLAN



CORNER DETAIL



ELEVATION

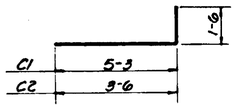


SECTION

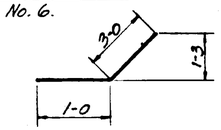
REINFORCING DETAILS

BAR SCHEDULE WALL "C"			
Mark	Size	No.	Length
C1	4	42	6-9
C2	4	41	5-0
C3	4	20	27-9
C4	4	10	7-10
C5	4	83	3-2
C6	4	8	4-0

See General Note No. 6.



C1 & C2



C6

BENDING DIAGRAMS

Bar dimensions are Out to Out

SUMMARY OF QUANTITIES WALL "C"	
Class A Concrete	13.3 Cu. Yds
Reinforcing Steel	1,321 Lbs.
Class 1 Excavation for Structures	60 Cu. Yds.

GENERAL NOTES FOR ALL RETAINING WALLS

1. Design Unit Stresses: f'c = 3,500 psi.; fc = 1,200 psi; fs = 20,000 psi.
2. Class A Concrete shall be used throughout. Bevel all exposed edges with a ¾" triangular molding unless otherwise noted.
3. All dimensions relative to reinforcing steel are to centerline of bar unless otherwise noted.
4. 4" weephole shall be placed on 8' centers and to bottom of selected material.
5. Coarse aggregate shall be placed behind each weephole to occupy a space extending 15" in all directions above weephole flowline.
6. Temperature reinforcing steel shall be placed in the face of all concrete walls not otherwise reinforced. The steel shall be #4 bars @ 1'-6" centers, both horizontal and vertical. See sheet No. 63 for details.
7. Expansion joints shall be placed at midpoints of each concrete retaining wall. See sheet No. 44 for Expansion joint details.
8. Contraction joints shall be equally spaced such that spacing does not exceed 25'.
9. Provide 4" weepholes where subdrains intersect the wall.

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

DESIGN RAW
DR. BY EES
CK. BY DS
DATE
JOB NO. 170-071

REINFORCED CONCRETE RETAINING WALL "C"

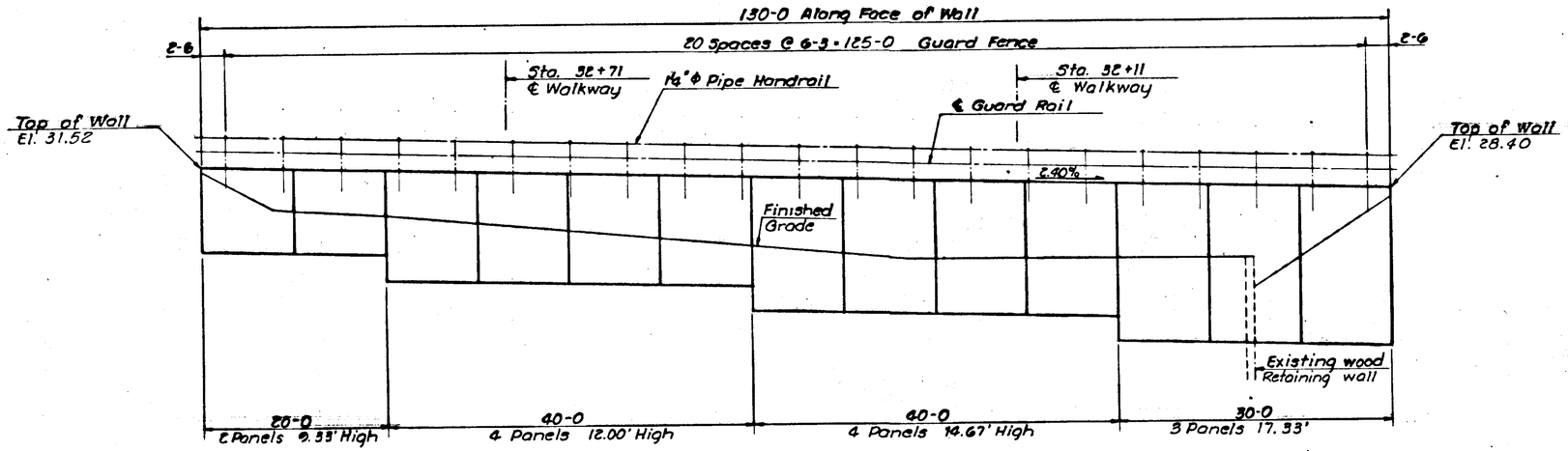
RT. STA. 15+40 TO STA. 15+94

W K

WYLLER - KILLEWICH - VAN DOREN & HAZARD
ENGINEERS - ARCHITECTS

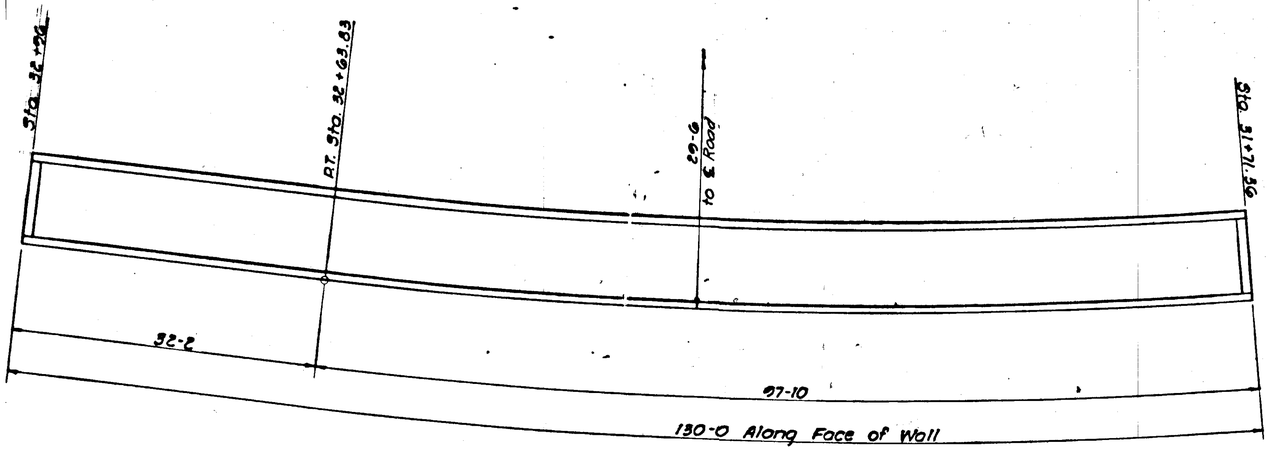
SHEET

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	48	175



DEVELOPED ELEVATION OF BIN WALL

Note: Openings in Guardrail for walkways shall be field determined and no deduction will be made in Guardrail quantity.



PLAN

SUMMARY OF QUANTITIES WALL "D"	
Bin Type Retaining Wall	1773 Sq. Ft.
Guardrail	125 Lin. Ft.
Class 1 Excavation for Structures	446 Cu. yds.

N

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

DESIGN RLF
DR. BY EES
CK. BY DS
DATE
JOB NO. 170-071

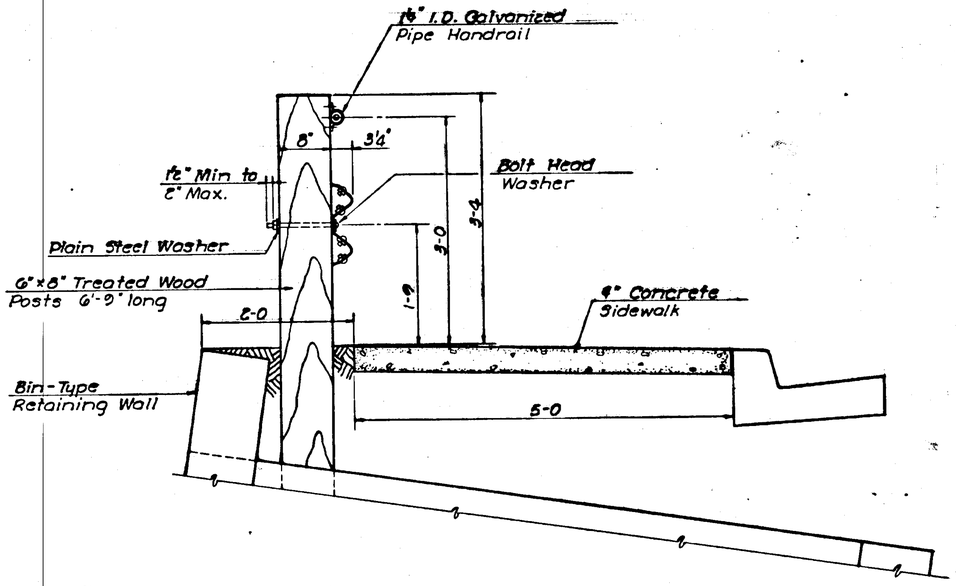
BIN – TYPE
RETAINING WALL "D"
LT. STA. 31+71.36 TO STA. 32+96

W K
V H

WYLLER – KILLEWICH – VAN DOREN & HAZARD
ENGINEERS - ARCHITECTS
JUNEAU, ALASKA

SHEET

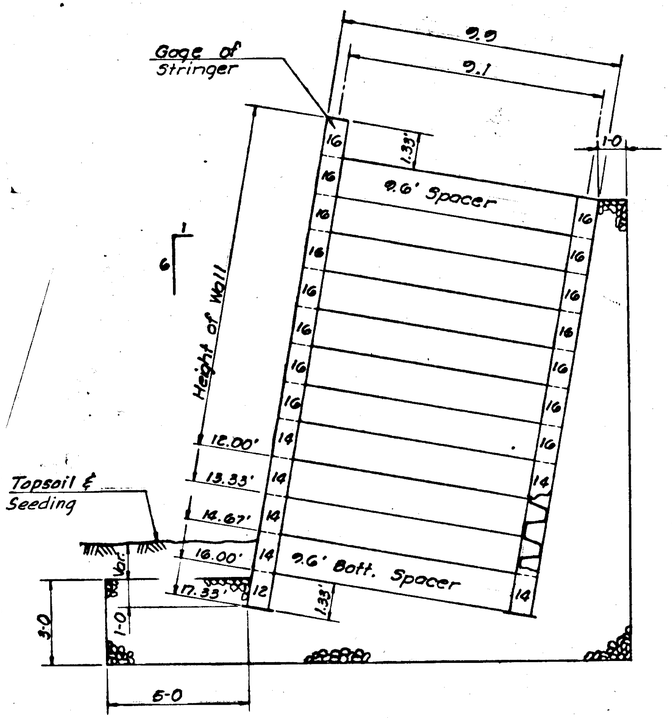
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	49	175



SECTION AT POST

NOTES

1. Guardrail for retaining wall "D" as detail on this sht. shall be standard Beam Type Guardrail.
2. Posts shall be as detailed on this sht.. No additional payment will be made for the additional length of post & pipe required to facilitate the handrail.
3. The contractor shall take care to avoid damaging the bin wall during guardrail installation.
4. Payment for Guardrail shall be as provided for under Section 606(1).

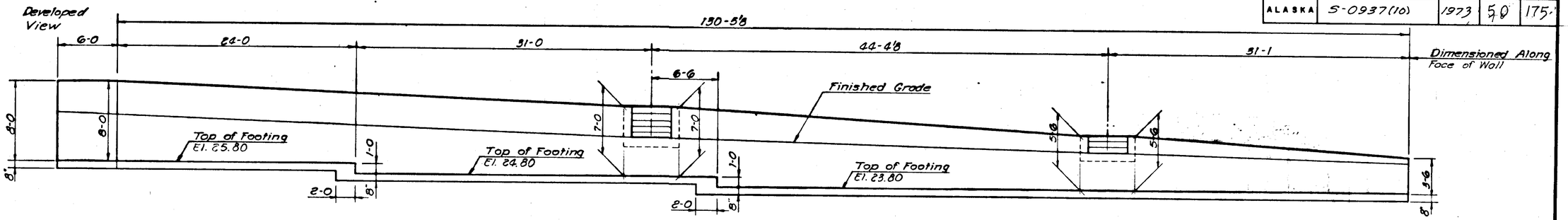


TYPICAL SECTION

Note: Fill and Backfill Bin Wall with Select Material

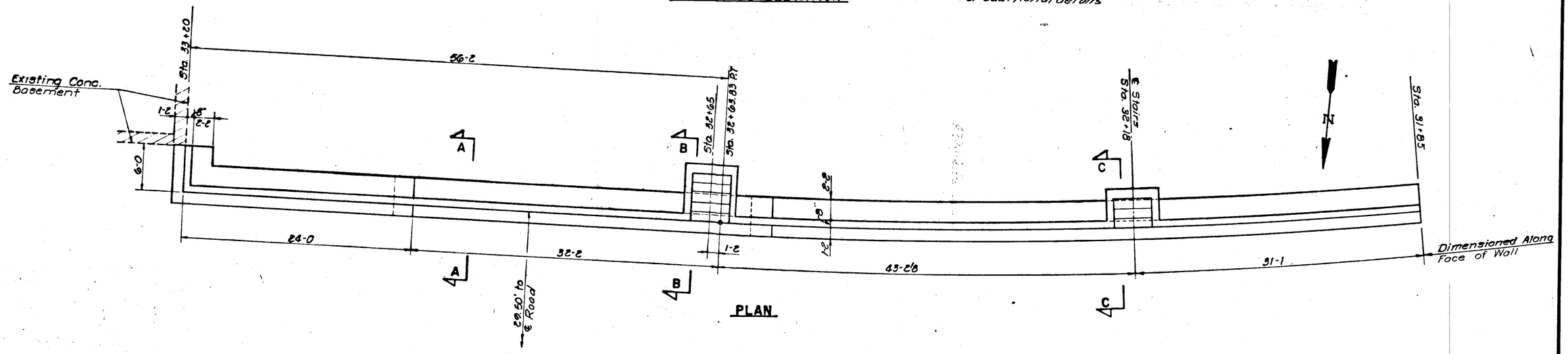
BIN - TYPE
RETAINING WALL "D"
LT. STA. 31+71.36 TO STA. 32+96

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	50	175

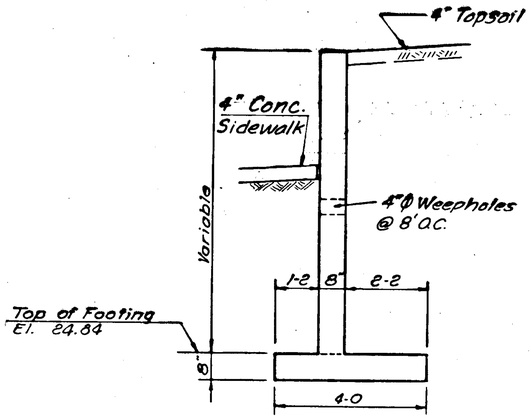


DEVELOPED ELEVATION

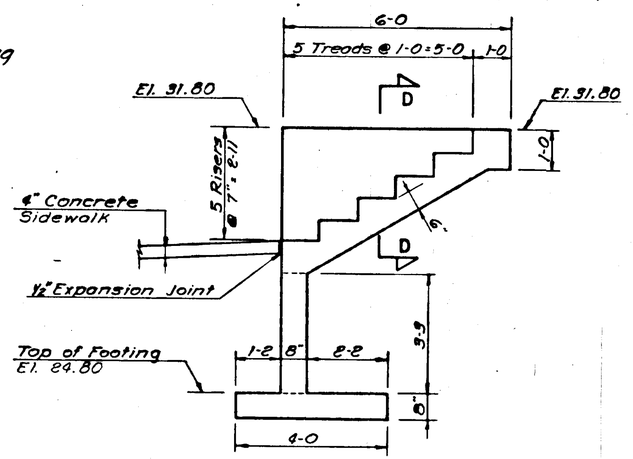
See General Notes on Sheet 47 for additional details



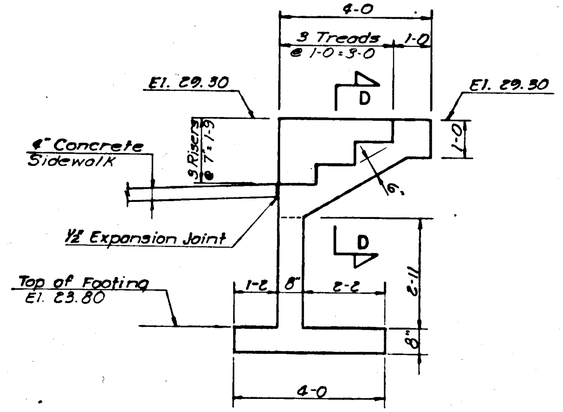
PLAN



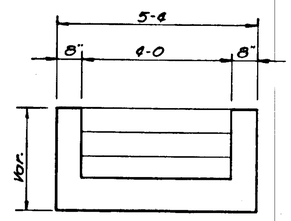
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

DESIGN RAW
DR. BY EES
CK. BY DS
DATE
JOB NO. 170-071

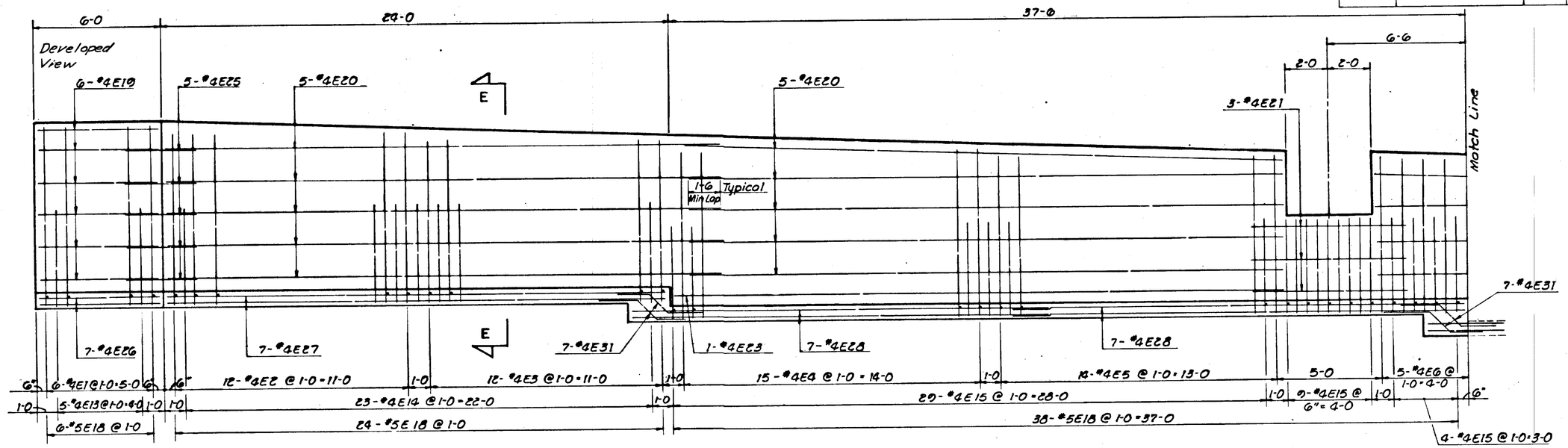
REINFORCED CONCRETE RETAINING WALL "E"

RT. STA. 31+85 TO STA. 33+20

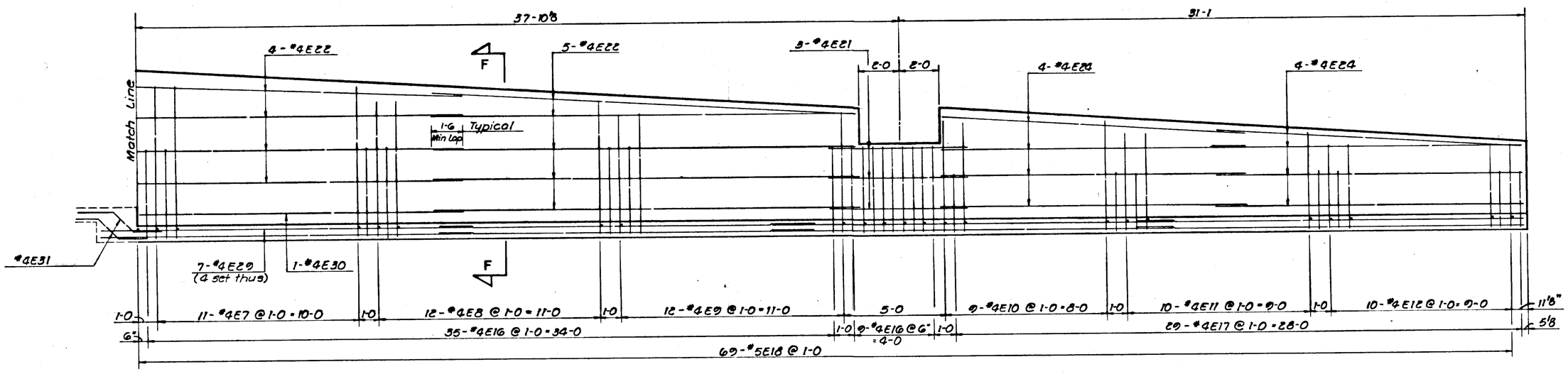
W K WYLLER - KILLEWICH - VAN DOREN & HAZARD

SHEET

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	51	175



DEVELOPED WALL ELEVATION



WALL ELEVATION

NOTE: For Sections E-E & F-F
See Sheet 52

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

DESIGN RAW
DR. BY EES
CK. BY DS
DATE
JOB NO. 170-071

REINFORCED CONCRETE RETAINING WALL "E"

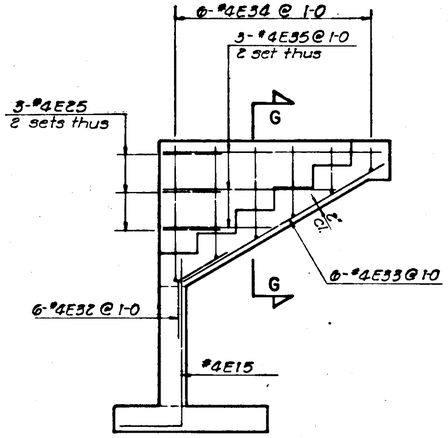
RT. STA. 31+85 TO STA. 33+20

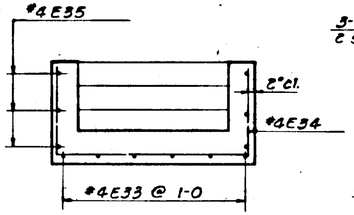
W K V H

WYLLER - KILLEWICH - VAN DOREN & HAZARD
ENGINEERS - ARCHITECTS
JUNEAU, ALASKA

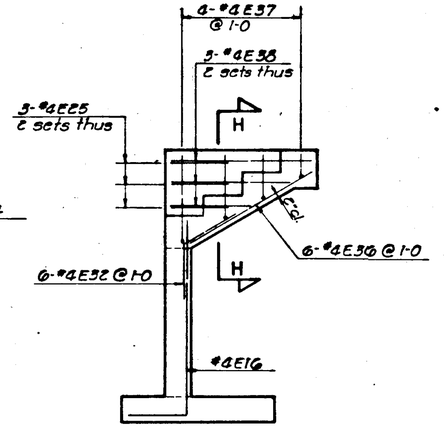
SHEET

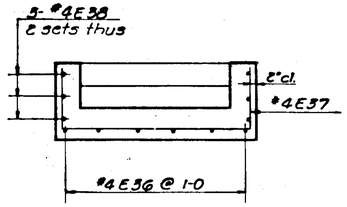
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937 (10)	1973	52	175





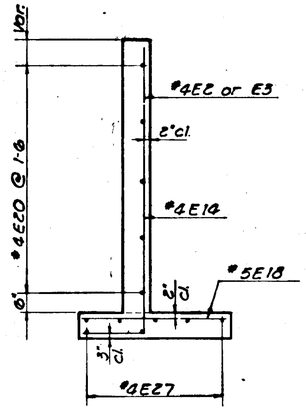
SECTION G-G



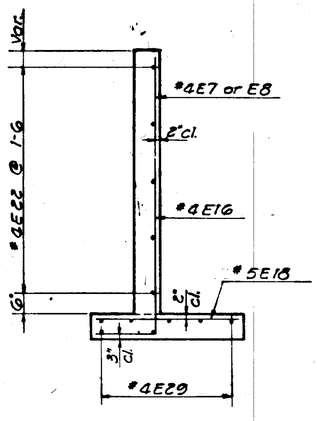


SECTION H-H

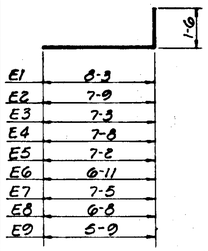
STAIR REINFORCING DETAILS



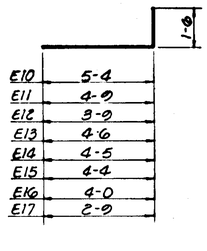
SECTION E-E



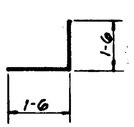
SECTION F-F



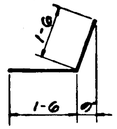
E1 - E9



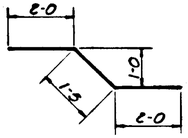
E10 - E17



E25



E32



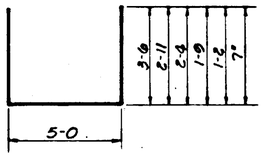
E31

Increase by 1-6 Incr.
From 3-0 to 5-8

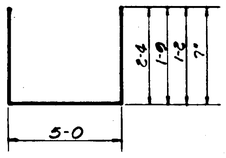
E35
Cut 2 Each Length

Increase by 0" Incr.
From 2-3 to 3-9

E38
Cut 2 Each Length



E34
Cut one each Length



E37
Cut one each Length

BENDING DIAGRAMS
Bar dimensions are Out to Out

BAR SCHEDULE
WALL "E"

Mark	Size	No.	Length	Mark	Size	No.	Length
E1	4	6	9-9	E21	4	6	8-0
E2	4	12	9-3	E22	4	9	20-9
E3	4	12	8-9	E23	4	1	89-0
E4	4	15	9-2	E24	4	8	15-2
E5	4	14	8-8	E25	4	17	3-0
E6	4	5	8-5	E26	4	7	6-10
E7	4	11	8-11	E27	4	7	24-10
E8	4	12	8-8	E28	4	14	20-5
E9	4	12	7-3	E29	4	28	18-10
E10	4	9	6-10	E30	4	1	16-3
E11	4	10	6-3	E31	4	14	5-5
E12	4	10	5-3	E32	4	12	3-0
E13	4	5	6-0	E33	4	6	6-3
E14	4	23	5-11	E34	4	6	*
E15	4	22	5-10	E35	4	6	*
E16	4	44	5-6	E36	4	6	4-0
E17	4	29	4-3	E37	4	4	*
E18	5	137	3-9	E38	4	6	*
E19	4	6	5-9				
E20	4	10	27-1				

* See Bending Diagrams
See General Note No. 6 for temperature steel placement.

SUMMARY OF QUANTITIES WALL "E"	
Class A Concrete	37.4 Cu. Yds.
Reinforcing Steel	3,986 Lbs
Class I Excavation for Structures	110 C.Y.

Note: For retaining wall General Notes, See sheet No. 47.

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

DESIGN RAW
DR. BY EES
CK. BY DS
DATE
JOB NO. 170-071

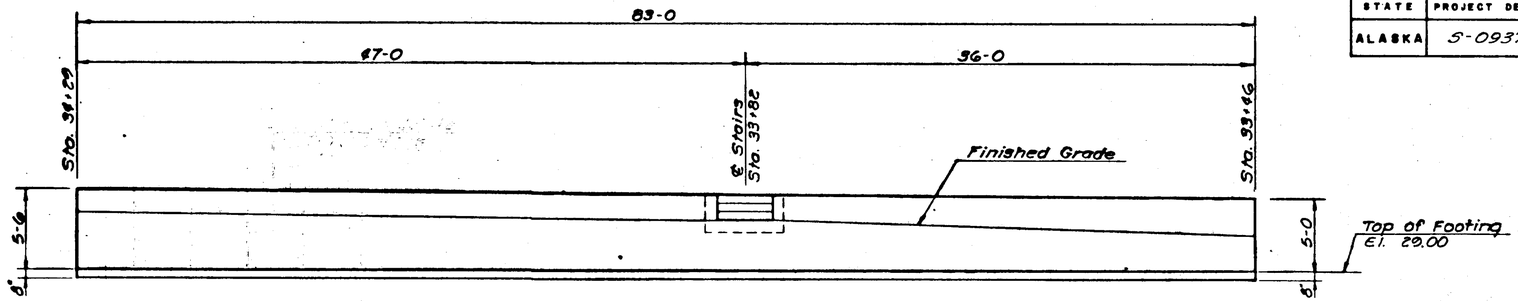
REINFORCED CONCRETE
RETAINING WALL "E"
RT. STA. 31+85 TO STA. 33+20

W K
V H

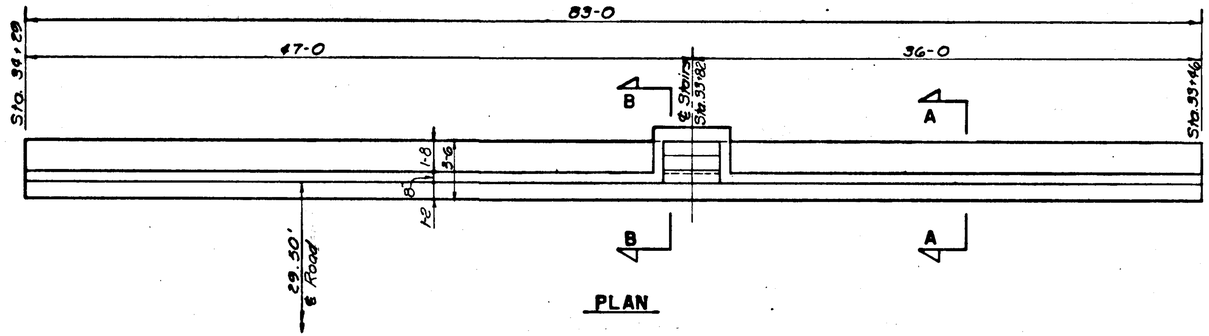
WYLLER - KILLEWICH - VAN DOREN & HAZARD
ENGINEERS - ARCHITECTS
JUNEAU, ALASKA

SHEET

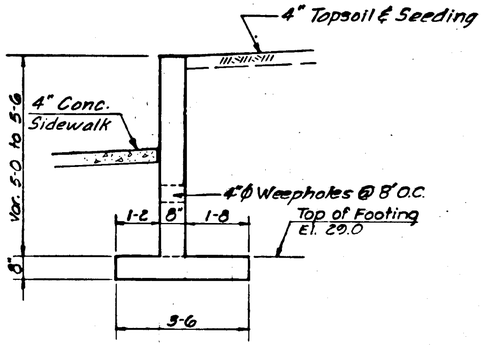
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	53	175



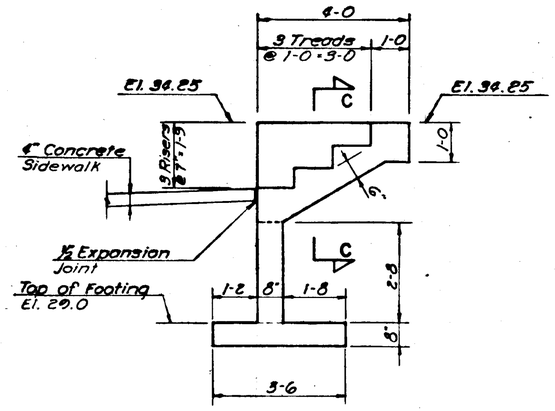
ELEVATION



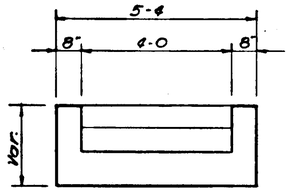
PLAN



SECTION A-A



SECTION B-B



SECTION C-C

For Retaining Wall General notes see Sheet No. 47

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

DESIGN	RAW
DR. BY	EES
CK. BY	DS
DATE	
JOB NO.	70-071

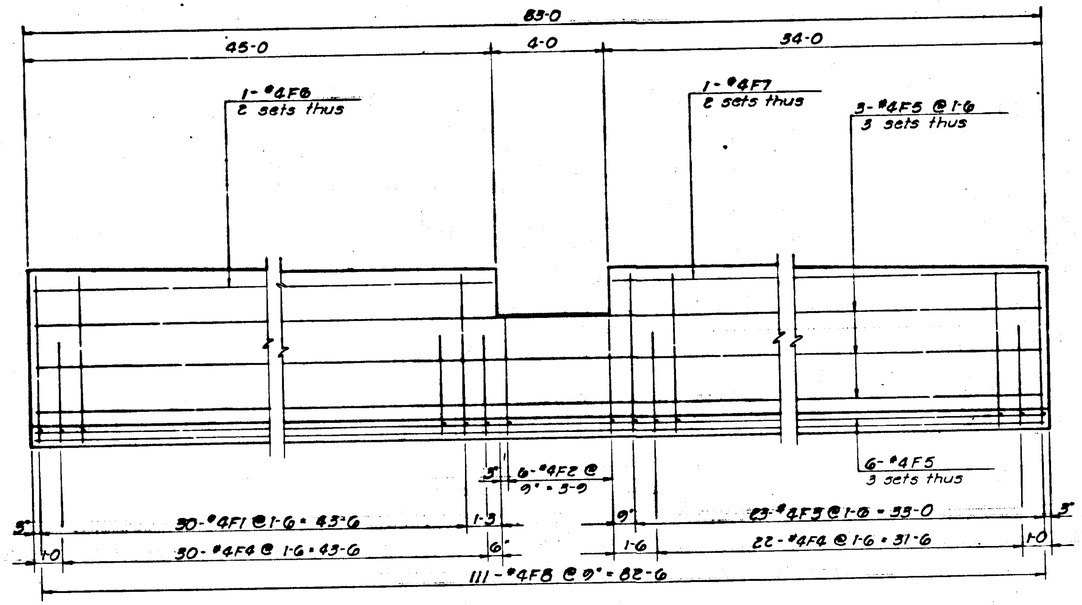
REINFORCED CONCRETE RETAINING WALL "F"

RT. STA. 33+46 TO STA. 34+29

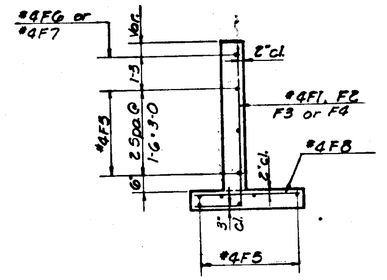
W K WYLLER - KILLEWICH - VAN DOREN & HAZARD
ENGINEERS - ARCHITECTS

SHEET

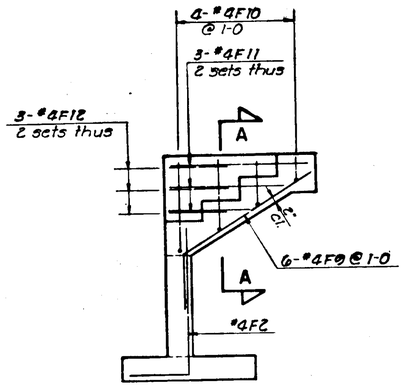
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	54	175

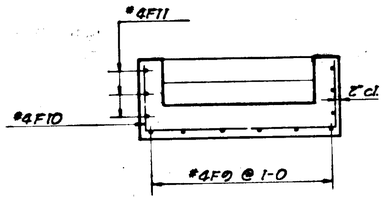


WALL ELEVATION



WALL SECTION



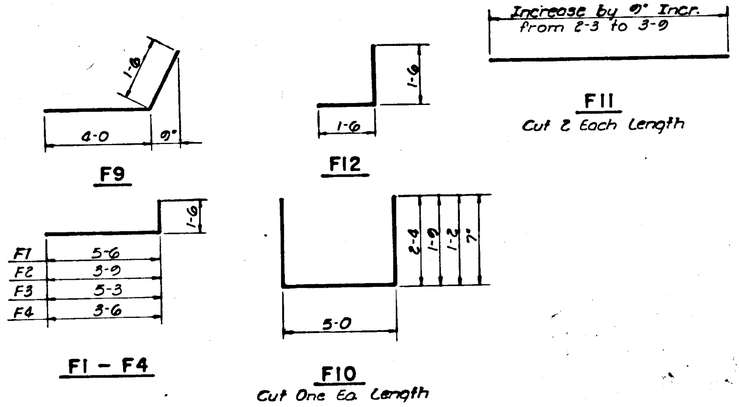


SECTION A-A

STAIR REINFORCING DETAILS

BAR SCHEDULE WALL "F"			
Mark	Size	No.	Length
F1	4	30	7-0
F2	4	6	5-3
F3	4	23	6-9
F4	4	52	5-0
F5	4	27	28-9
F6	4	2	23-3
F7	4	2	17-9
F8	4	111	3-2
F9	4	6	5-6
F10	4	4	*
F11	4	6	*
F12	4	6	3-0

* See Bending diagrams
See General Note No. 6 for temperature steel placement.



BENDING DIAGRAMS
Bar dimensions are Out to Out

SUMMARY OF QUANTITIES WALL "F"	
Class A Concrete	18.8 Cu. Yds.
Reinforcing Steel	1,820 Lbs.
Class 1 Excavation for Structures	24 Cu. Yds.

Note: For retaining wall General Notes, See Sht. No. 47.

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

DESIGN RJW
DR. BY EES
CK. BY DS
DATE
JOB NO. 170-071

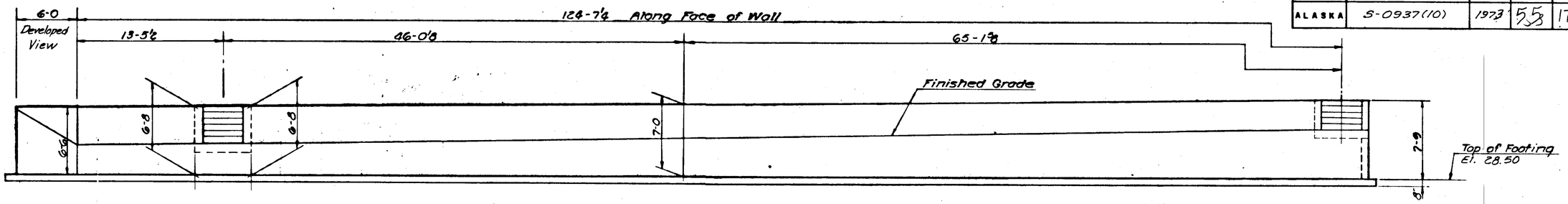
REINFORCED CONCRETE RETAINING WALL "F"
RT. STA. 33+46 TO STA. 34+29

WYLLER - KILLEWICH - VAN DOREN & HAZARD
ENGINEERS - ARCHITECTS
JUNEAU, ALASKA

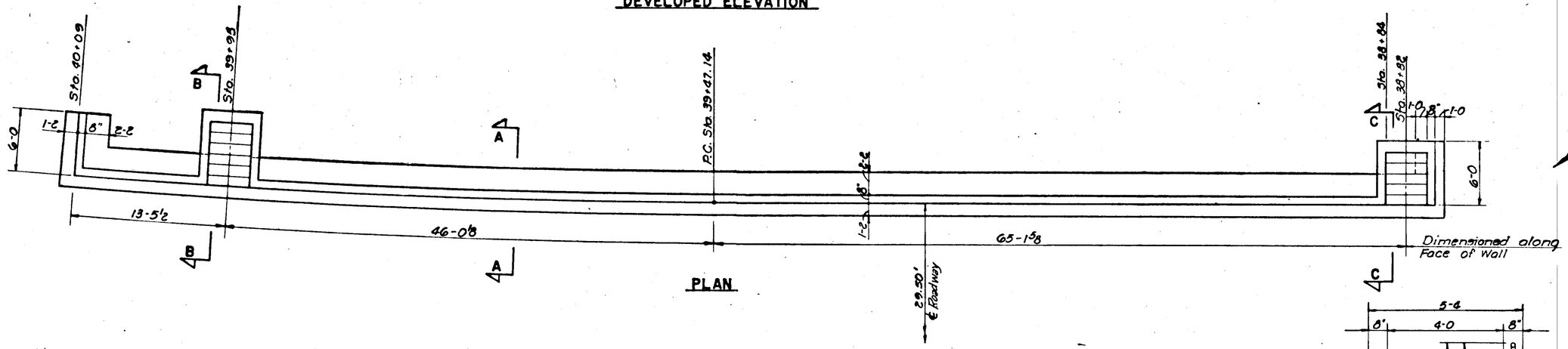
W K V H

SHEET
OF

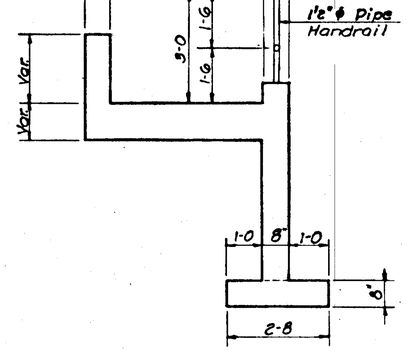
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	53	175



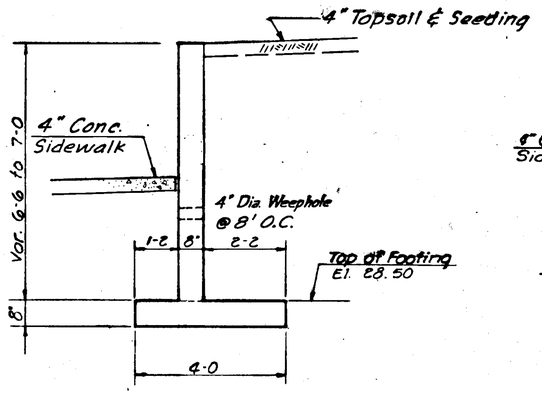
DEVELOPED ELEVATION



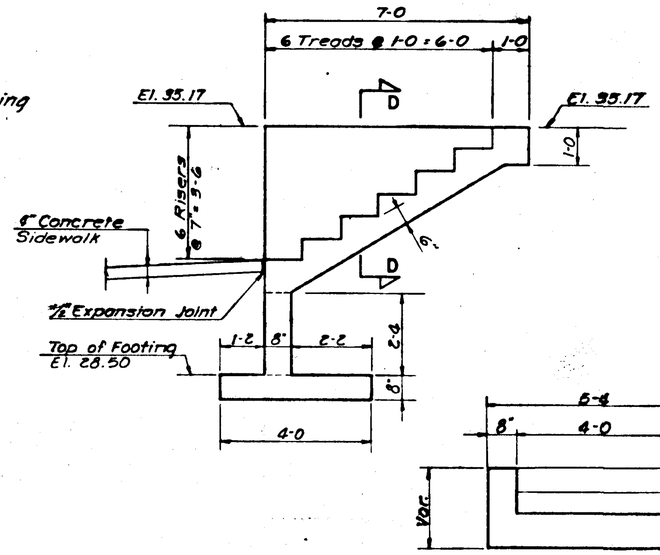
PLAN



SECTION E-E

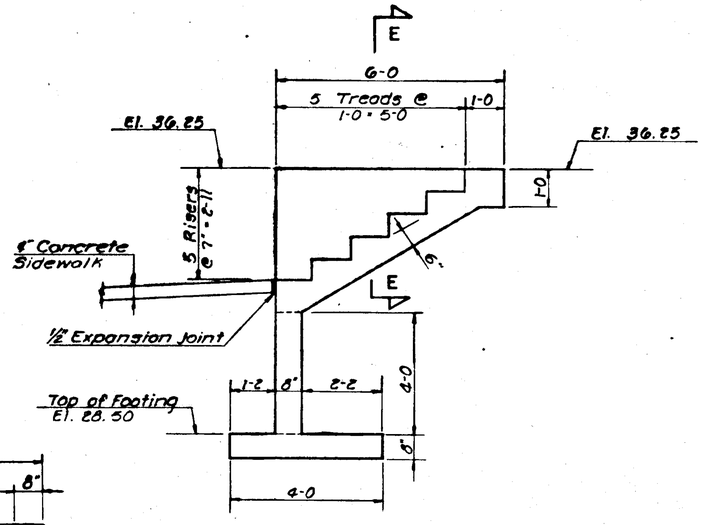


SECTION A-A



SECTION B-B

SECTION D-D



SECTION C-C

For Retaining Wall General Notes See Sheet No. 47

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

DESIGN RLF
DR. BY EES
CK. BY DS
DATE
JOB NO. 170-071

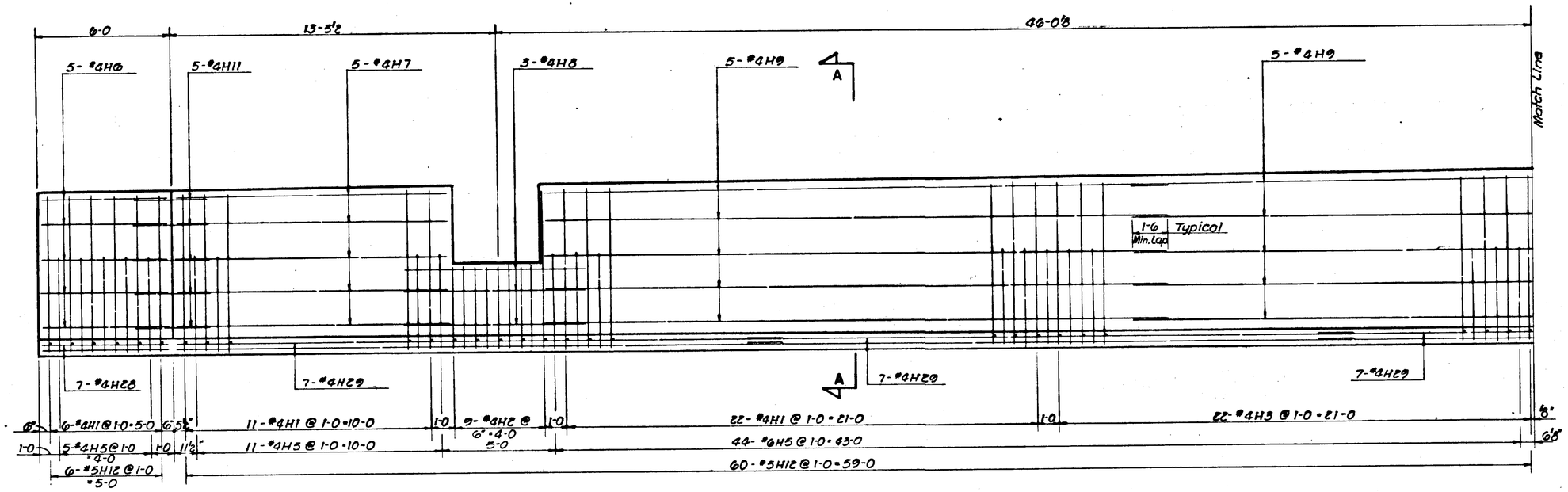
REINFORCED CONCRETE RETAINING WALL "H"

RT. STA. 38+84 TO STA. 40+09

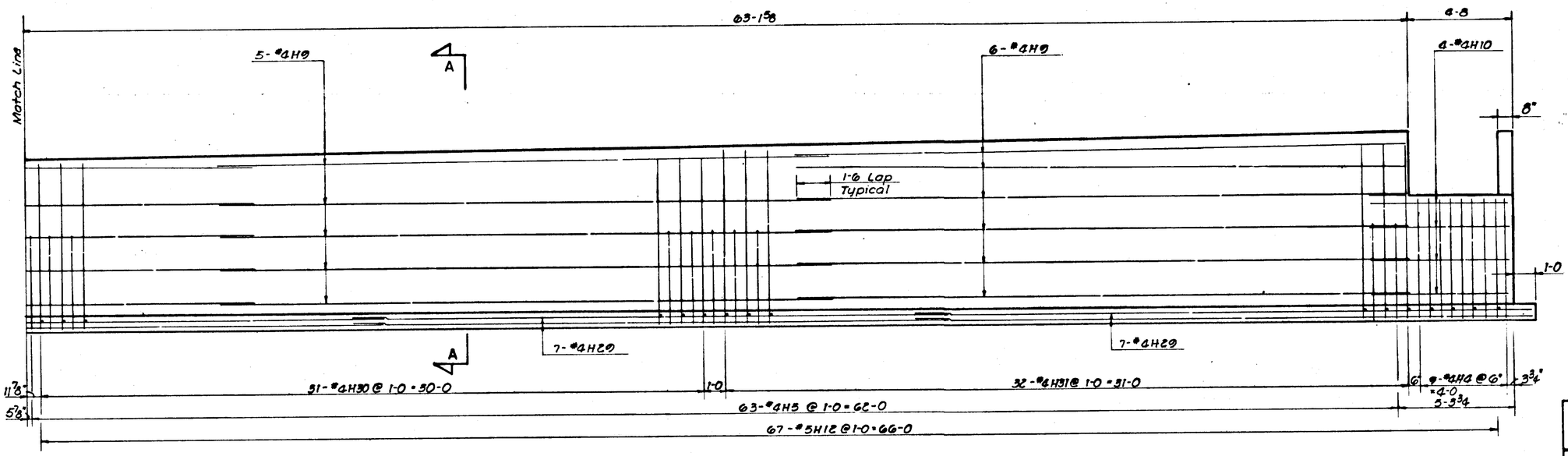
W K WYLLER - KILLEWICH - VAN DOREN & HAZARD
ENGINEERS - ARCHITECTS

SHEET

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	56	175



DEVELOPED WALL ELEVATION



WALL ELEVATION

Note: For Section A-A See Sheet No. 57

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

DESIGN RLF
DR. BY EES
CK. BY DS
DATE
JOB NO. 170-071

REINFORCED CONCRETE RETAINING WALL "H"

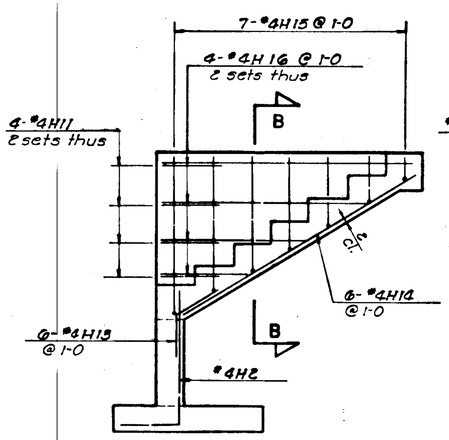
RT. STA. 38+84 TO STA. 40+09

W K V H

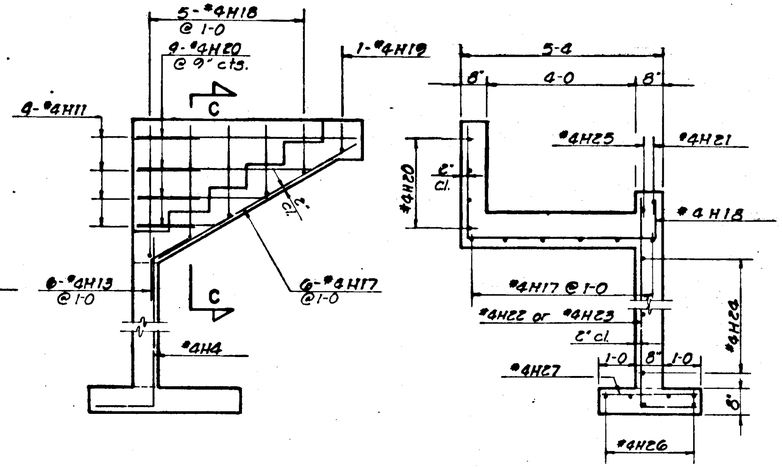
WYLLER - KILLEWICH - VAN DOREN & HAZARD
ENGINEERS · ARCHITECTS
JUNEAU, ALASKA

SHEET
OF

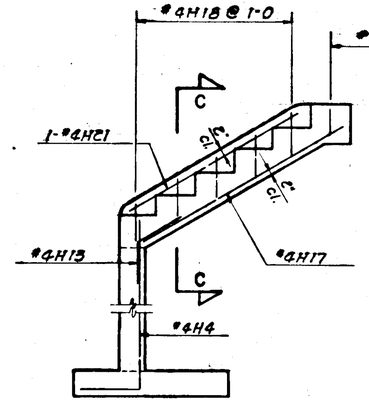
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	57	175

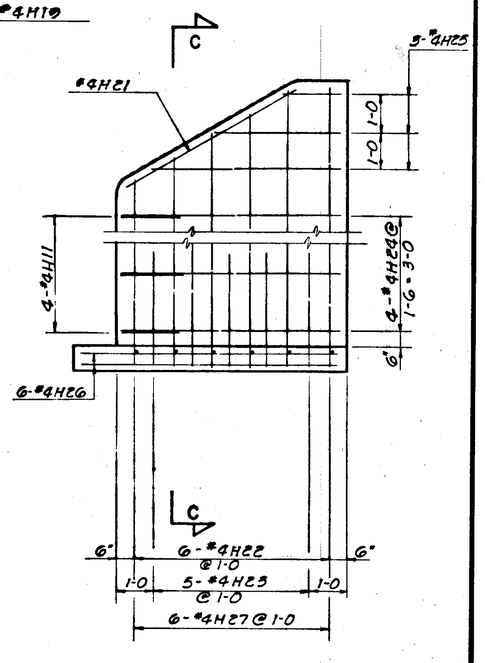


SECTION B-B

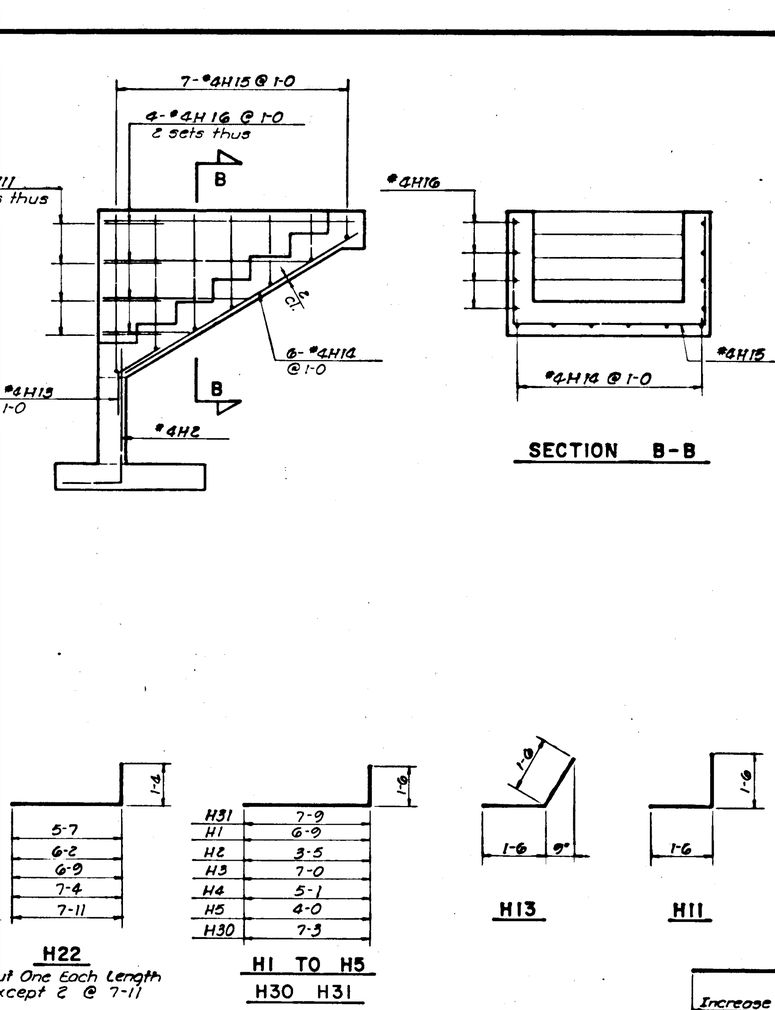


SECTION C-C





STAIR REINFORCING DETAILS



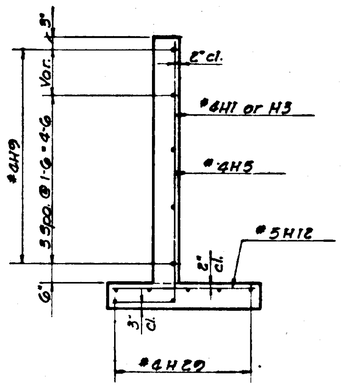
BENDING DIAGRAMS

Bar dimensions are Out to Out

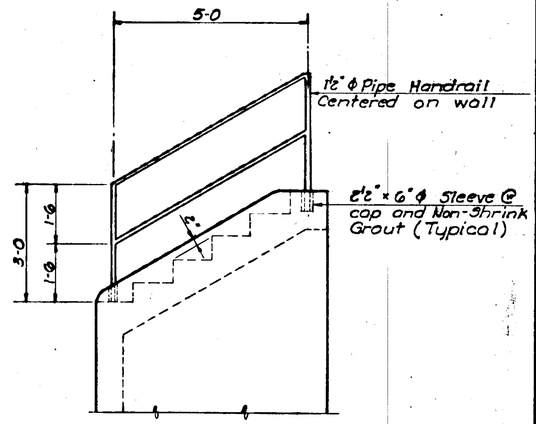
BAR SCHEDULE WALL "H"

Mark	Size	No.	Length
H1	4	30	8-3
H2	4	9	4-11
H3	4	22	8-6
H4	4	9	6-7
H5	4	123	5-6
H6	4	5	5-8
H7	4	5	11-1
H8	4	3	8-0
H9	4	21	27-10
H10	4	4	6-6
H11	4	21	3-0
H12	5	133	3-8
H13	4	12	3-0
H14	4	6	7-3
H15	4	7	*
H16	4	8	*
H17	4	6	6-0
H18	4	5	*
H19	4	1	6-2
H20	4	4	*
H21	4	1	5-4
H22	4	6	*
H23	4	5	4-4
H24	4	4	4-8
H25	4	3	*
H26	4	6	6-10
H27	4	6	2-4
H28	4	7	6-10
H29	4	35	27-3
H30	4	31	8-9
H31	4	32	9-3

* See Bending Diagrams.
See General Note No. 6 for temperature steel placement.



SECTION A-A



HANDRAIL DETAILS

SUMMARY OF QUANTITIES WALL "H"

Class A Concrete	39.2 Cu. Yds.
Reinforcing Steel	4,043 Lbs.
Class 1 Excavation for Structures	43 Cu. Yds.

Note: For retaining wall General Notes, See

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

DESIGN KLF
DR. BY EES
CK. BY DS
DATE
JOB NO. 170-071

REINFORCED CONCRETE RETAINING WALL "H"

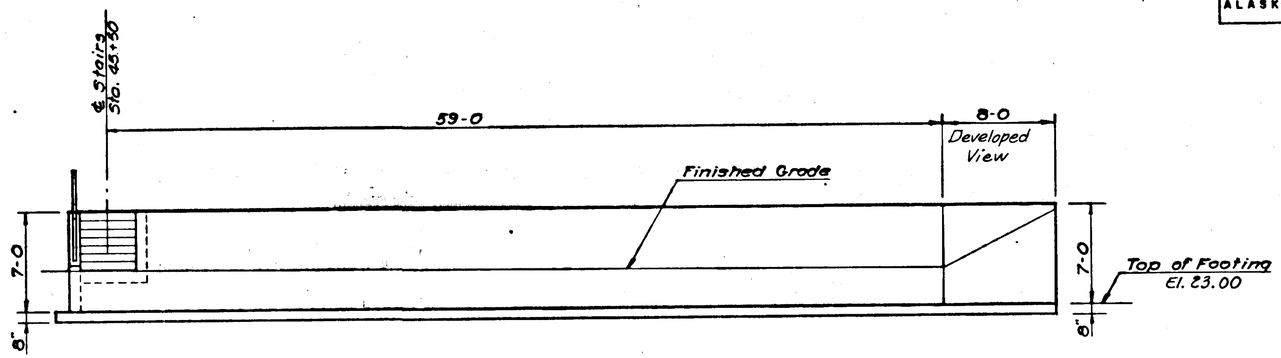
RT. STA. 38+84 TO STA. 40+09

W K

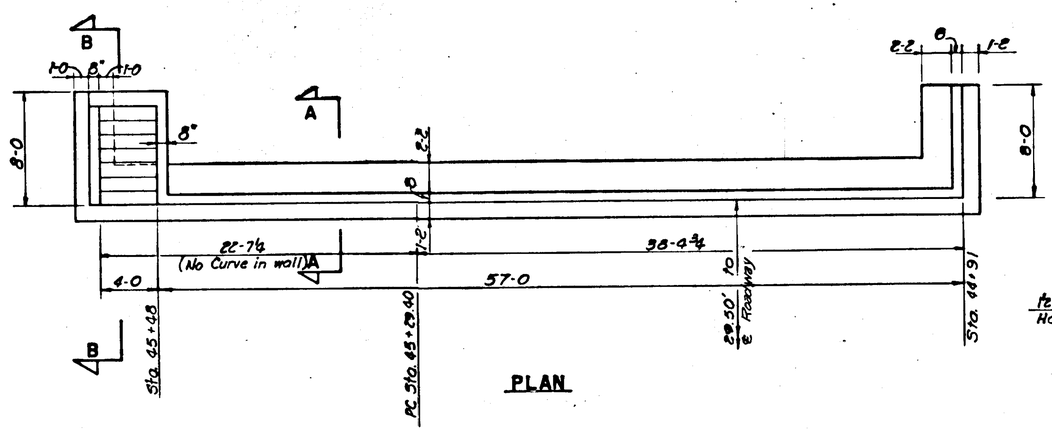
WYLLER - KILLEWICH - VAN DOREN & HAZARD
ENGINEERS - ARCHITECTS

SHEET

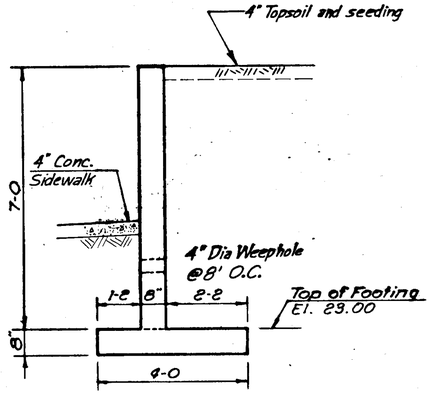
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937 (10)	1973	58	175



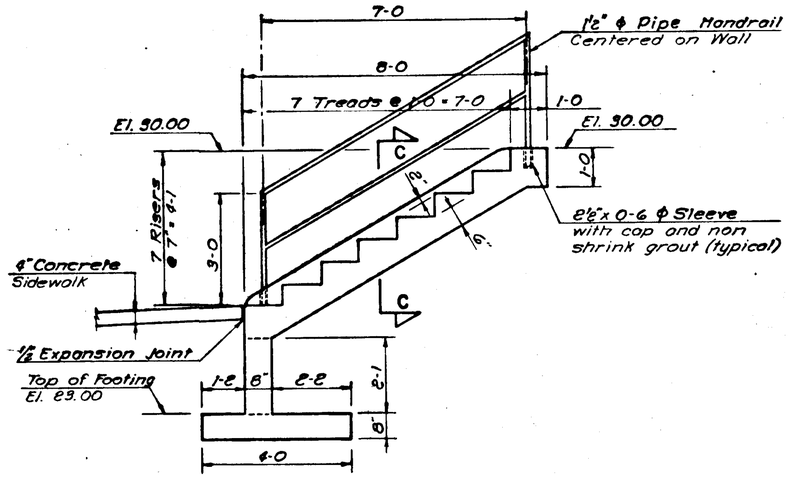
DEVELOPED ELEVATION



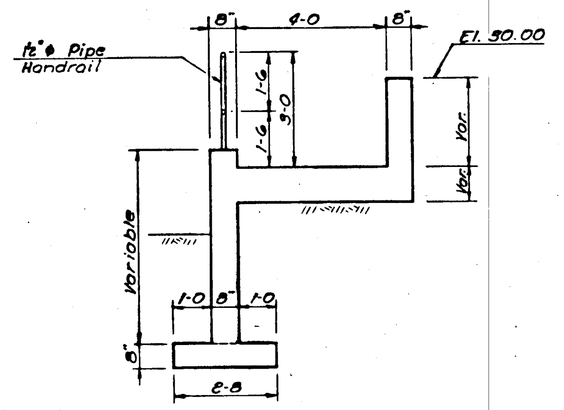
PLAN



SECTION A-A



SECTION B-B



SECTION C-C

For Retaining Wall General Notes See Sheet 47

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

DESIGN RLF
DR. BY EGS
CK. BY DS
DATE

JOB NO. 70-071

REINFORCED CONCRETE RETAINING WALL "I"

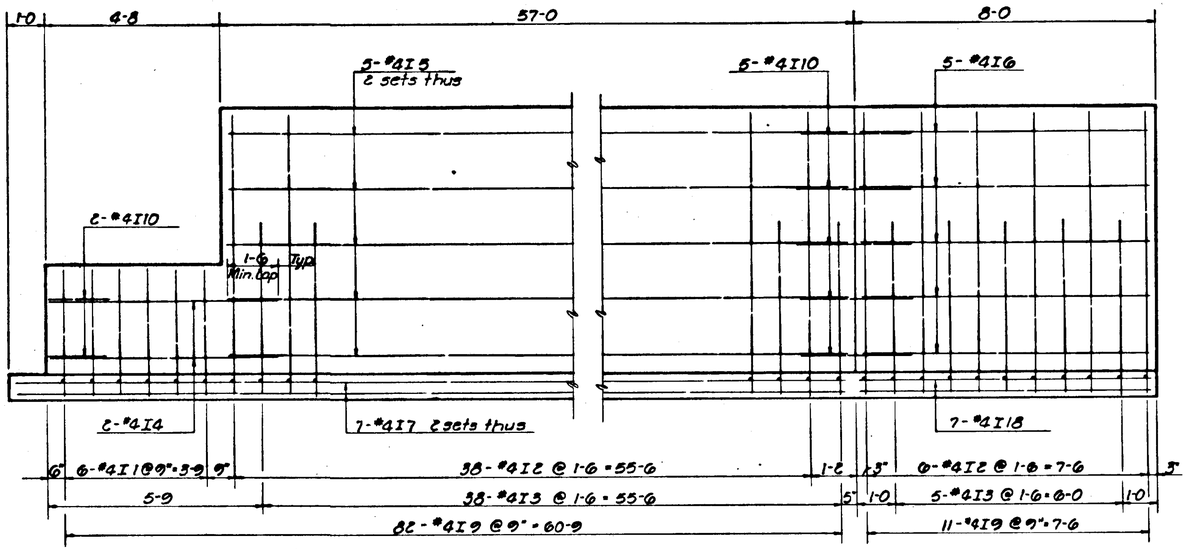
RT. STA. 44+91 TO STA. 45+48

W K
V H

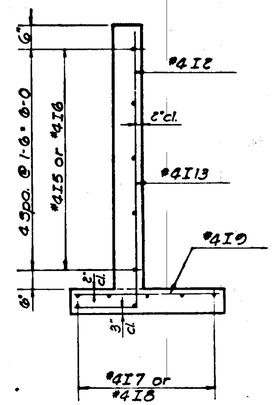
WYLLER - KILLEWICH - VAN BOREN & HAZARD
ENGINEERS - ARCHITECTS
JUNEAU, ALASKA

SHEET
OF

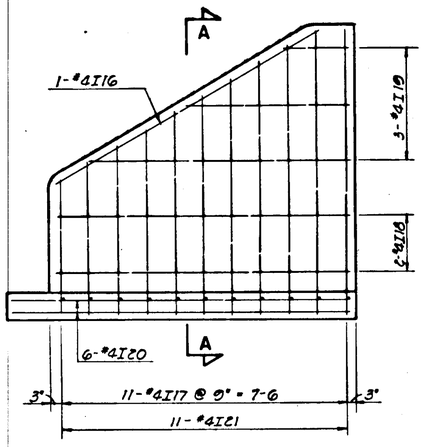
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	59	175



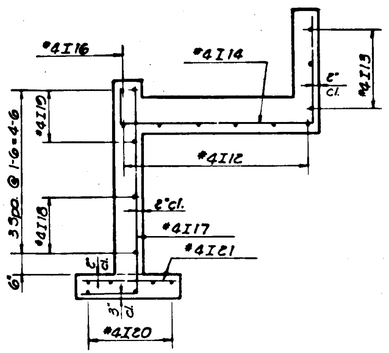
DEVELOPED WALL ELEVATION



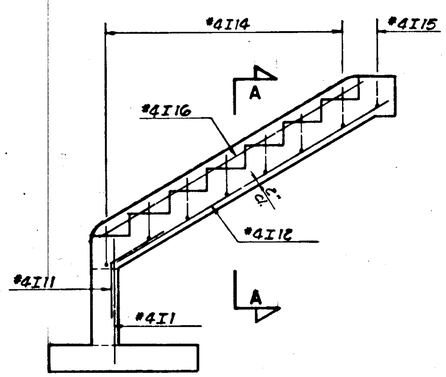
WALL SECTION



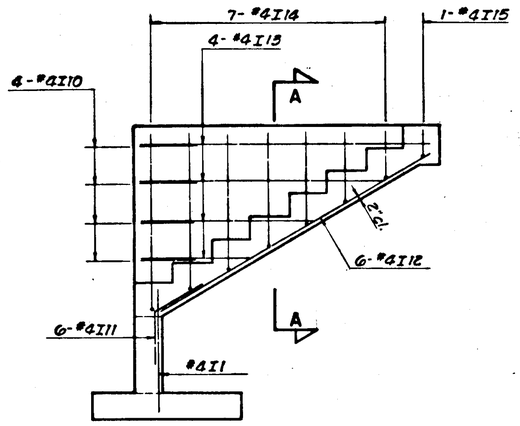
SECTION B-B



SECTION A-A



SECTION C-C

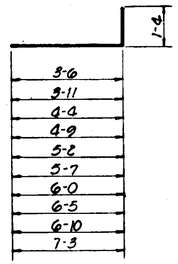


SECTION D-D

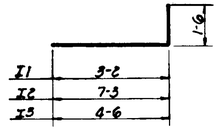
STAIR REINFORCING DETAILS

BAR SCHEDULE WALL "I"			
Mark	Size	No.	Length
I1	4	6	4-8
I2	4	44	8-9
I3	4	43	6-0
I4	4	2	6-2
I5	4	10	20-3
I6	4	5	7-8
I7	4	14	32-6
I8	4	7	8-10
I9	4	93	3-8
I10	4	11	3-0
I11	4	6	3-0
I12	4	6	8-6
I13	4	4	*
I14	4	7	*
I15	4	1	6-2
I16	4	1	8-0
I17	4	11	*
I18	4	2	7-8
I19	4	3	*
I20	4	6	8-10
I21	4	11	2-4

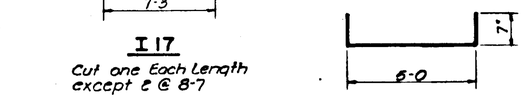
* See Bending Diagrams
See General Note No. 6 for temperature steel placement.



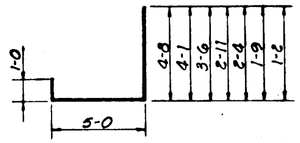
I17
Cut one Each Length except 2 @ 8-7



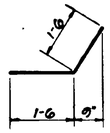
I1 - I3



I15



I14
Cut One Each Length



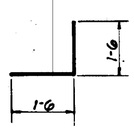
I11

Increase by 1-7 Incr.
From 3-0 to 7-9

I13
Cut One Each Length

Increase by 2-8 Incr.
From 1-8 to 7-0

I19
Cut One Each Length



I10

BENDING DIAGRAMS
Bar dimensions are Out to Out

SUMMARY OF QUANTITIES WALL "I"	
Class A Concrete	21.3 Cu. Yds.
Reinforcing Steel	1,926 Lbs.
Class 1 Excavation for Structures	75 Cu. Yds.

Note: For retaining wall General Notes, see Sheet No. 47

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

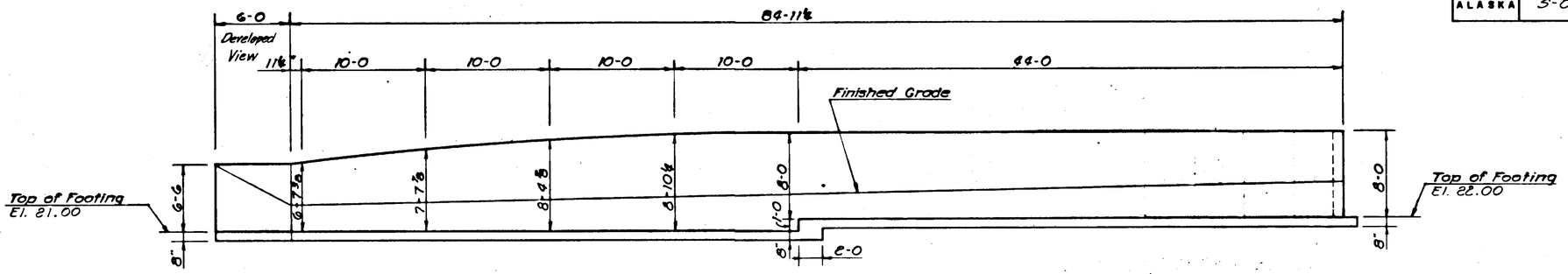
DESIGN RLF
DR. BY EFS
CK. BY DS
DATE
JOB NO. 170-071

REINFORCED CONCRETE RETAINING WALL "I"
RT. STA. 44+91 TO STA. 45+48

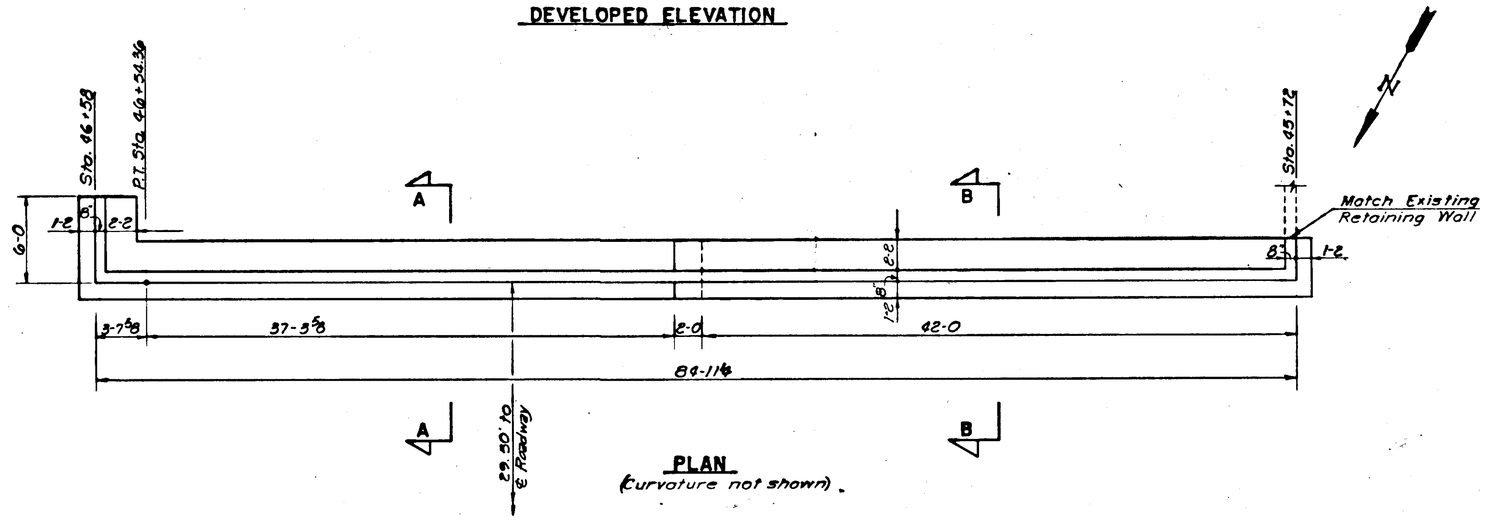
WYLLER - KILLEWICH - VAN DOREN & HAZARD
ENGINEERS - ARCHITECTS

SHEET

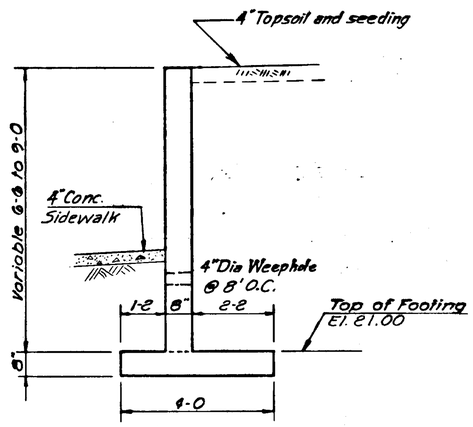
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937 (10)	1973	68	175



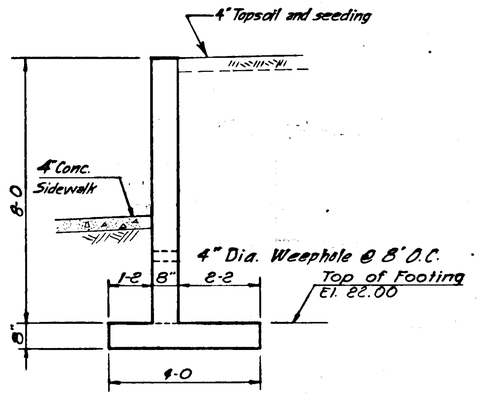
DEVELOPED ELEVATION



PLAN
(Curvature not shown)



SECTION A-A



SECTION B-B

For Retaining Wall General Notes See Sheet 47

STATE OF ALASKA,
DEPARTMENT OF HIGHWAYS

DESIGN	RLF
DR. BY	EES
CK. BY	DS
DATE	
JOB NO.	170-071

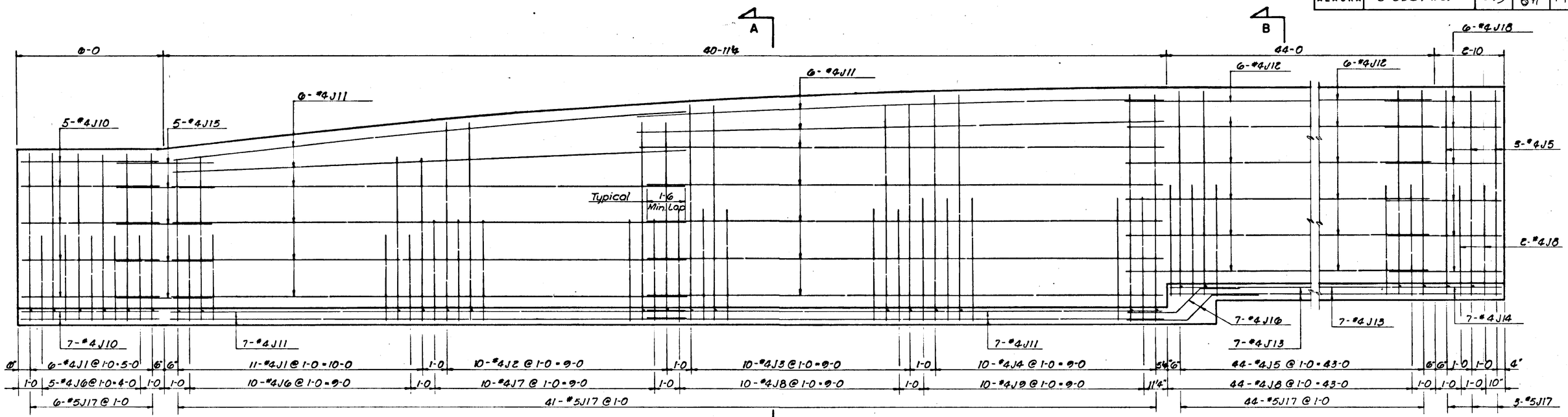
REINFORCED CONCRETE
RETAINING WALL "J"
RT. STA. 45+72 TO STA. 46+58

W K V H

WYLLER - KILLEWICH - VAN DOREN & HAZARD
ENGINEERS - ARCHITECTS
JUNEAU, ALASKA

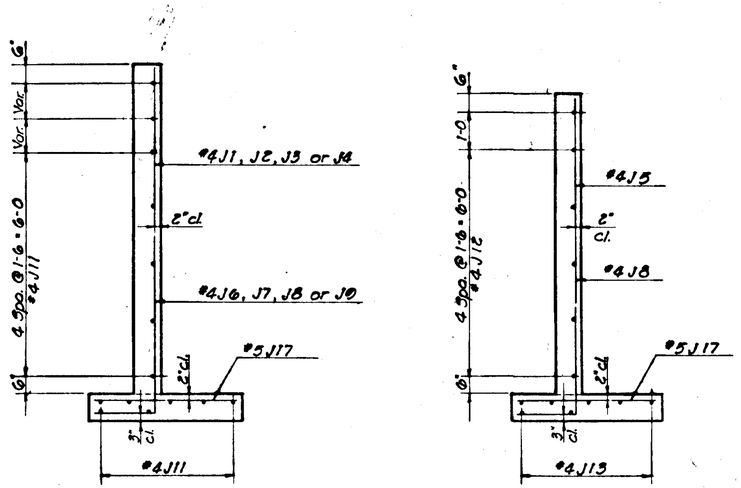
SHEET

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	64	175



A

DEVELOPED WALL ELEVATION



SECTION A-A

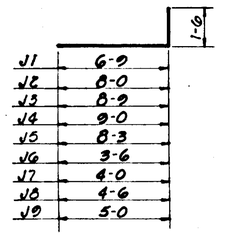
SECTION B-B

REINFORCING DETAILS

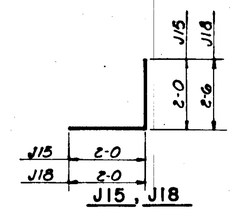
BAR SCHEDULE WALL "J"			
Mark	Size	No.	Length
J1	4	17	8-3
J2	4	10	9-6
J3	4	10	10-3
J4	4	10	10-6
J5	4	47	9-9
J6	4	15	5-0
J7	4	10	5-6
J8	4	56	6-0
J9	4	10	6-6
J10	4	12	5-8
J11	4	26	21-0
J12	4	12	24-0
J13	4	14	23-0
J14	4	7	3-6
J15	4	5	4-0
J16	4	7	5-5
J17	5	94	3-8
J18	4	6	4-6

See General Note No. 6. for temperature steel placement.

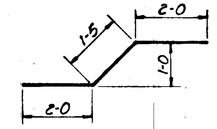
B



J1 - J9



J15, J18



J16

BENDING DIAGRAMS

Bar dimensions are Out to Out

SUMMARY OF QUANTITIES WALL "J"	
Class A Concrete	87.5 Cu. Yd.
Reinforcing Steel	2770 Lbs.
Class 1 Excavation for Structures	139 Cu. Yd.

Note: For retaining wall General Notes See Sheet No. 47.

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

DESIGN RLF
DR. BY EES
CK. BY DS
DATE
JOB NO. 170-071

REINFORCED CONCRETE RETAINING WALL "J"

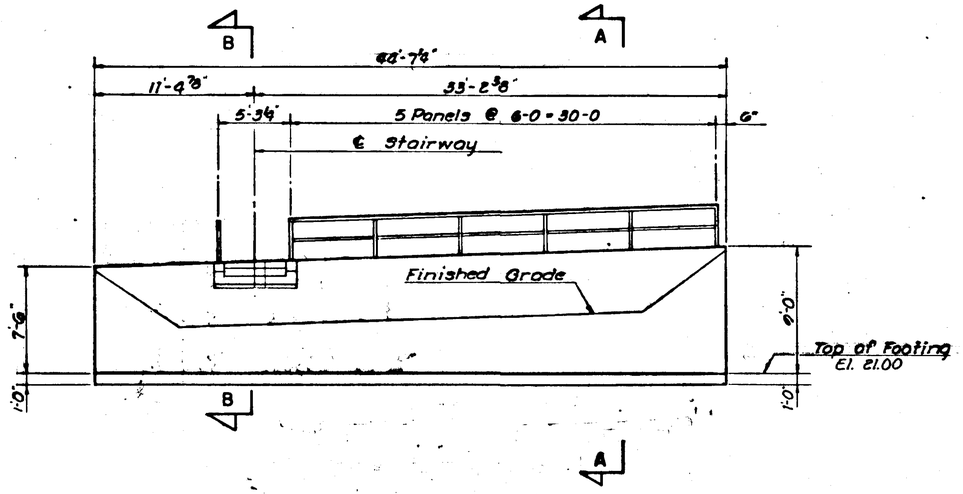
RT. STA. 45+72 TO STA. 46+58

W K V H

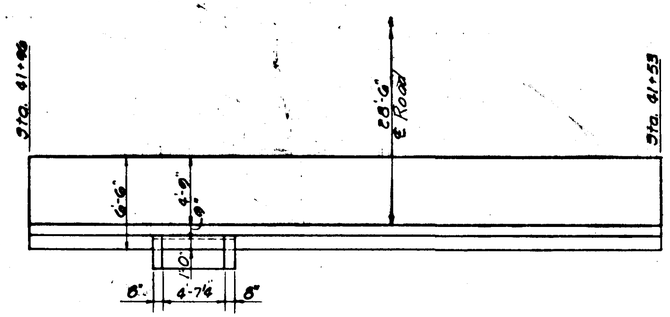
WYLLER - KILLEWICH - VAN DOREN & HAZARD
ENGINEERS - ARCHITECTS
JUNEAU, ALASKA

SHEET

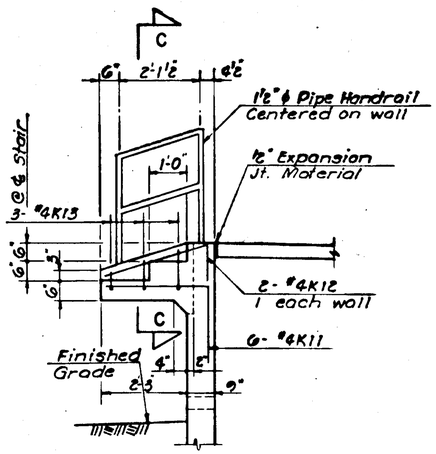
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	62	175



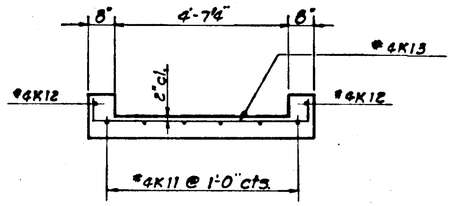
ELEVATION



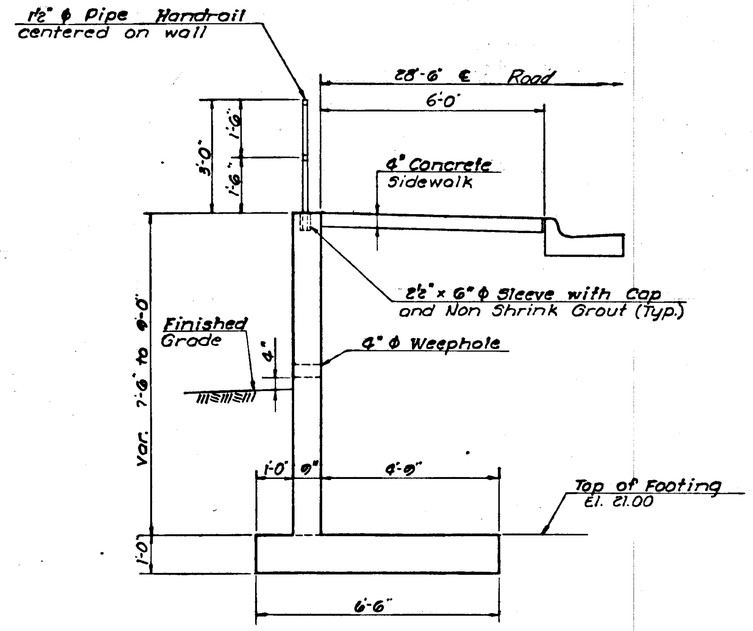
PLAN
(Curvature not shown)



SECTION B-B



SECTION C-C



SECTION A-A

Note: Openings in Handrail for curb cuts and walkway shall be field determined.

Note: For retaining wall General Notes, See sheet No. 47.

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

DESIGN	RLF
DR. BY	EES
CK. BY	DS
DATE	
JOB NO.	170-071

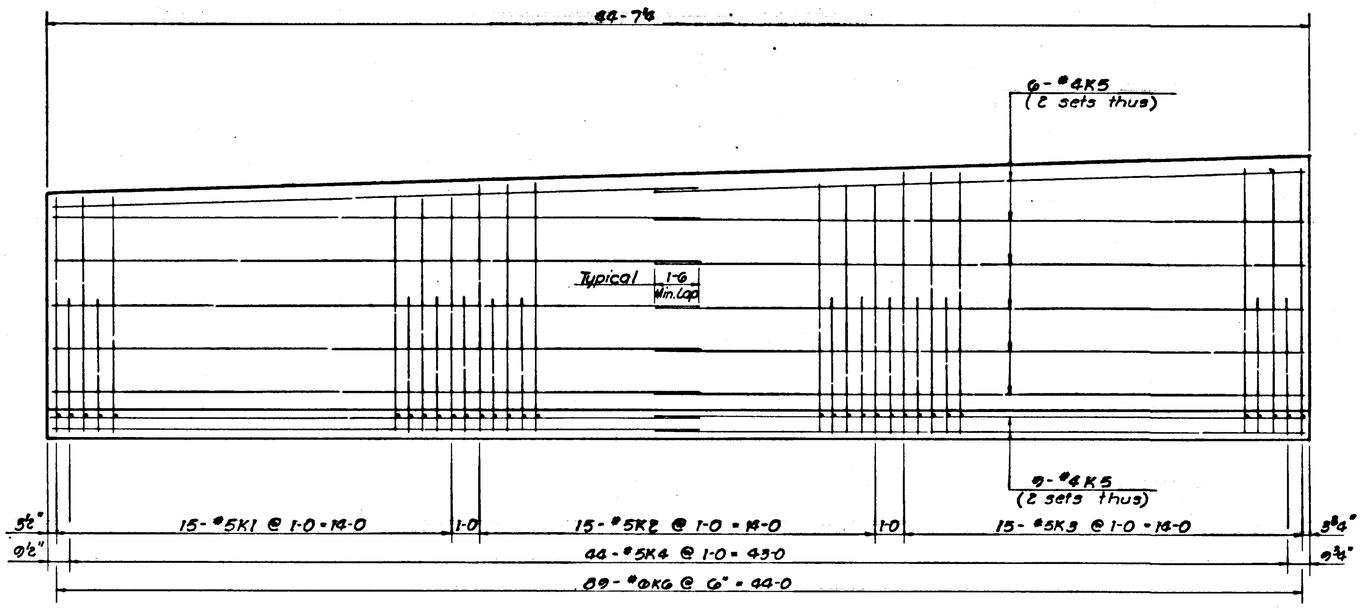
REINFORCED CONCRETE RETAINING WALL "K"

LT. STA. 41+53 TO STA. 41+96

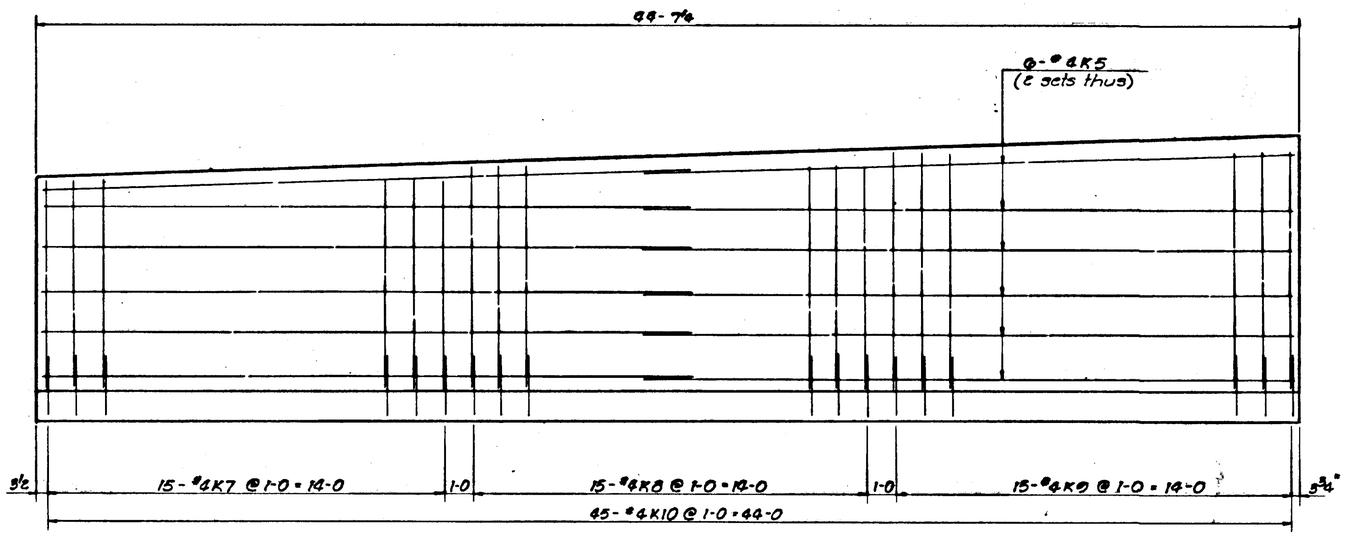
W K WYLLER - KILLEWICH - VAN DOREN & HAZARD
ENGINEERS · ARCHITECTS

SHEET

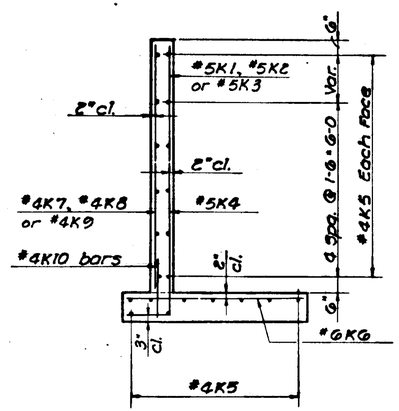
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	63	175



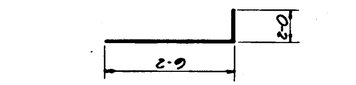
WALL ELEVATION SHOWING BACK FACE REINFORCING



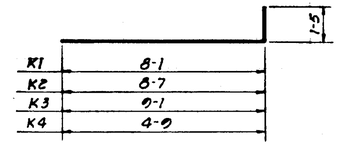
WALL ELEVATION SHOWING FRONT FACE REINFORCING



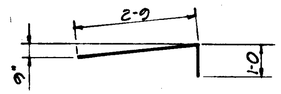
WALL SECTION



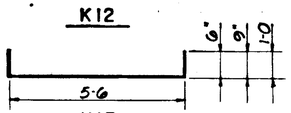
K11



K1 – K4



K12



K13

Cut one each Length

BENDING DIAGRAMS

BAR SCHEDULE
WALL "K"

Mark	Size	No.	Length
K1	5	15	0-6
K2	5	15	10-0
K3	5	15	10-6
K4	5	44	6-2
K5	4	42	23-0
K6	6	80	6-2
K7	4	15	8-0
K8	4	15	8-6
K9	4	15	9-0
K10	4	45	2-0
K11	4	6	4-9
K12	4	2	3-9
K13	4	3	*

* See Bending Diagrams
See General Note No. 6 for temperature steel placement.

SUMMARY OF QUANTITIES WALL "K"	
Class A Concrete	21.4 Cu. Yds.
Reinforcing Steel	2,844 Lbs.

Note: For retaining wall General Notes, See sheet No. 47.

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

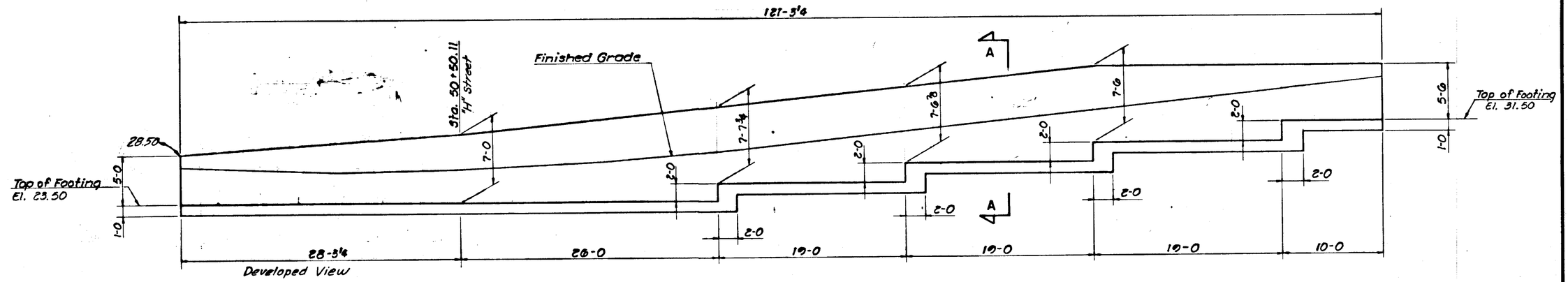
DESIGN RLF
DR. BY EES
CK. BY DS
DATE
JOB NO. 170-071

REINFORCED CONCRETE
RETAINING WALL "K"
LT. STA. 41+53 TO STA. 41+96

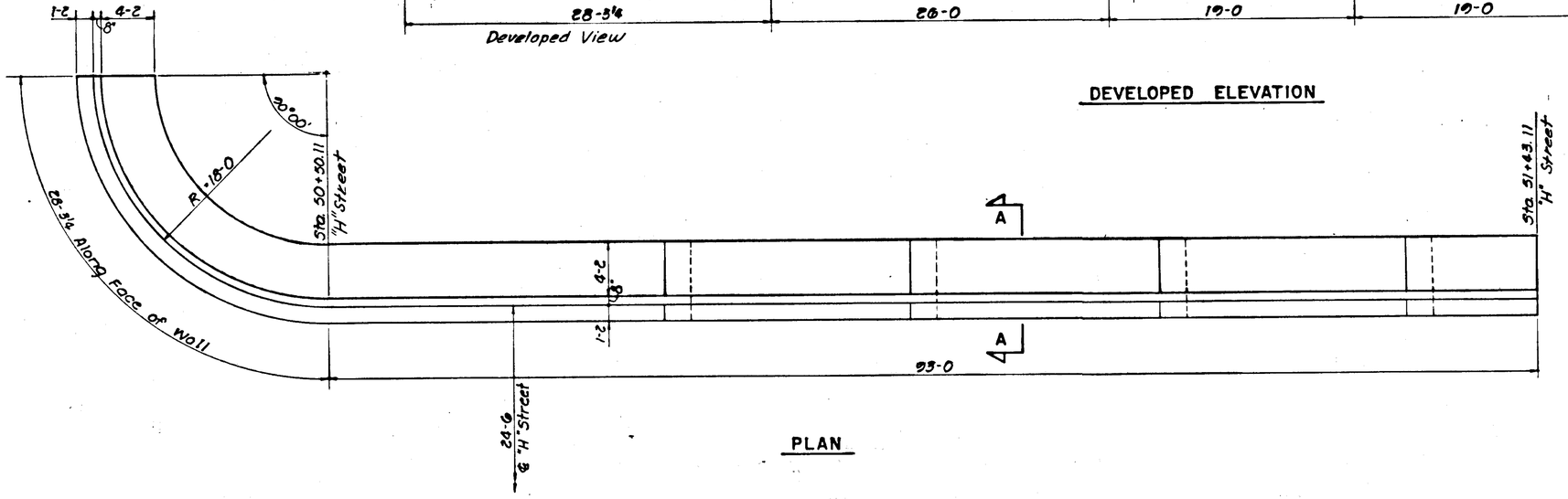
W K
WYLLER – KILLEWICH – VAN DOREN & HAZARD
ENGINEERS · ARCHITECTS

SHEET

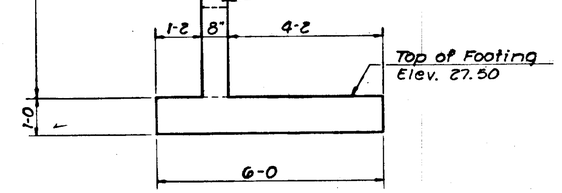
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	64	175



DEVELOPED ELEVATION



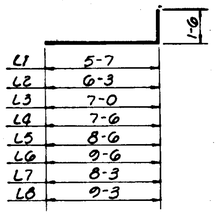
PLAN



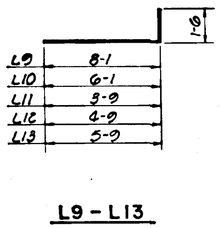
SECTION A-A

BAR SCHEDULE WALL "L"							
Mark	Size	No.	Length	Mark	Size	No.	Length
L1	4	10	7-1				
L2	4	10	7-9				
L3	4	9	8-6				
L4	4	9	9-0				
L5	4	9	10-0				
L6	4	8	11-0				
L7	4	20	9-9				
L8	4	18	10-9				
L9	4	19	9-7				
L10	4	9	7-7				
L11	5	20	5-3				
L12	5	10	6-3				
L13	5	91	7-3				
L14	4	9	16-0				
L15	4	13	13-3				
L16	4	42	20-6				
L17	4	4	11-6				
L18	4	24	20-0				
L19	4	8	9-6				
L20	4	32	6-9				
L21	5	282	5-8				

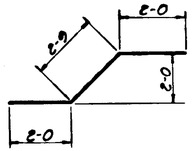
See General Note No. 6 for temperature steel placement.



L1 - L8



L9 - L13



L20

BENDING DIAGRAMS
Bar dimensions are Out to Out

SUMMARY OF QUANTITIES WALL "L"	
Class A Concrete	52.3 Cu. Yds.
Reinforcing Steel	5,126 Lbs.
Class 1 Excavation for Structures	341 Cu. Yds.

Note: For retaining wall General Notes, See sheet No. 47.

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

DESIGN RLF
DR. BY EES
CK. BY DS
DATE
JOB NO. 170-071

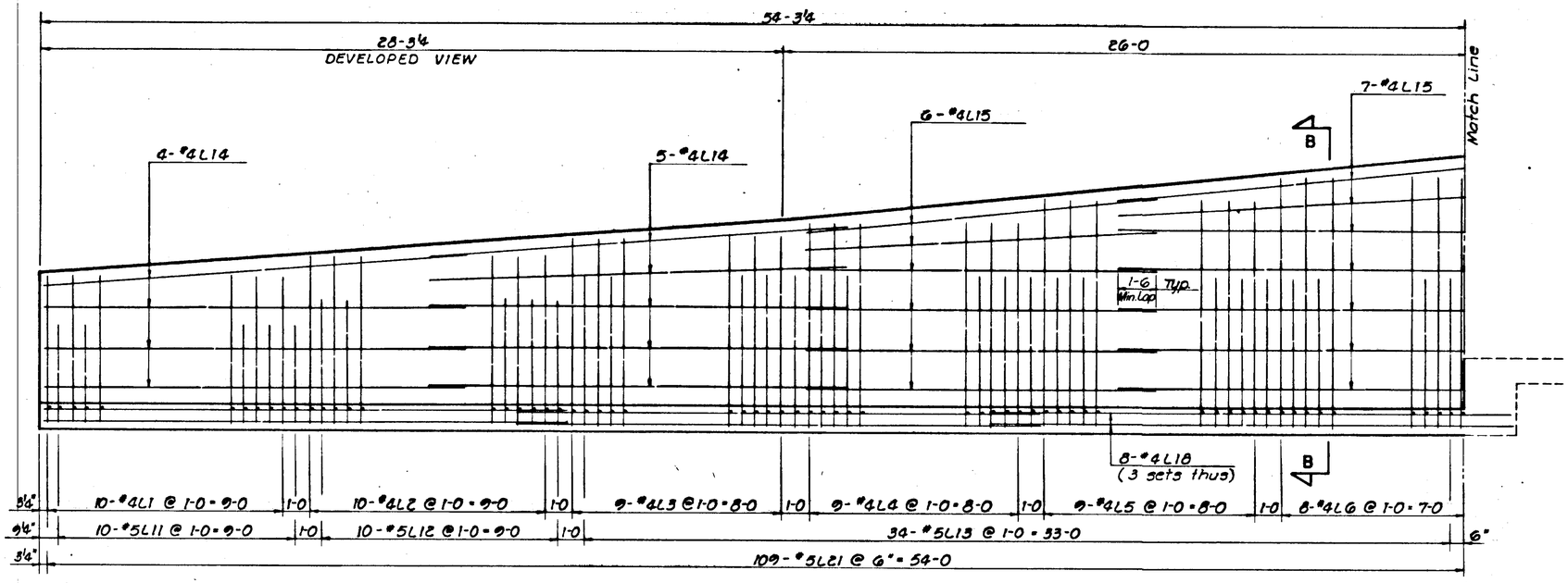
REINFORCED CONCRETE RETAINING WALL "L"
LT. STA. 50+50.11 TO STA. 51+43.11 "H" ST.

W K V H

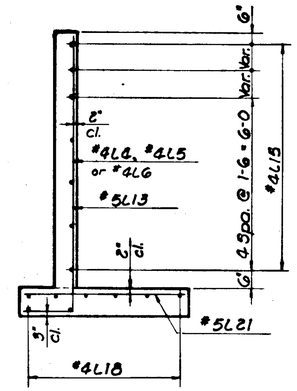
WYLLER - KILLEWICH - VAN DOREN & HAZARD
ENGINEERS · ARCHITECTS
JUNEAU, ALASKA

SHEET
OF

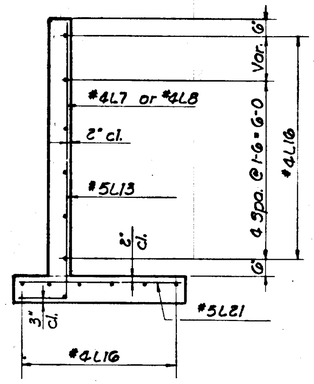
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	65	175



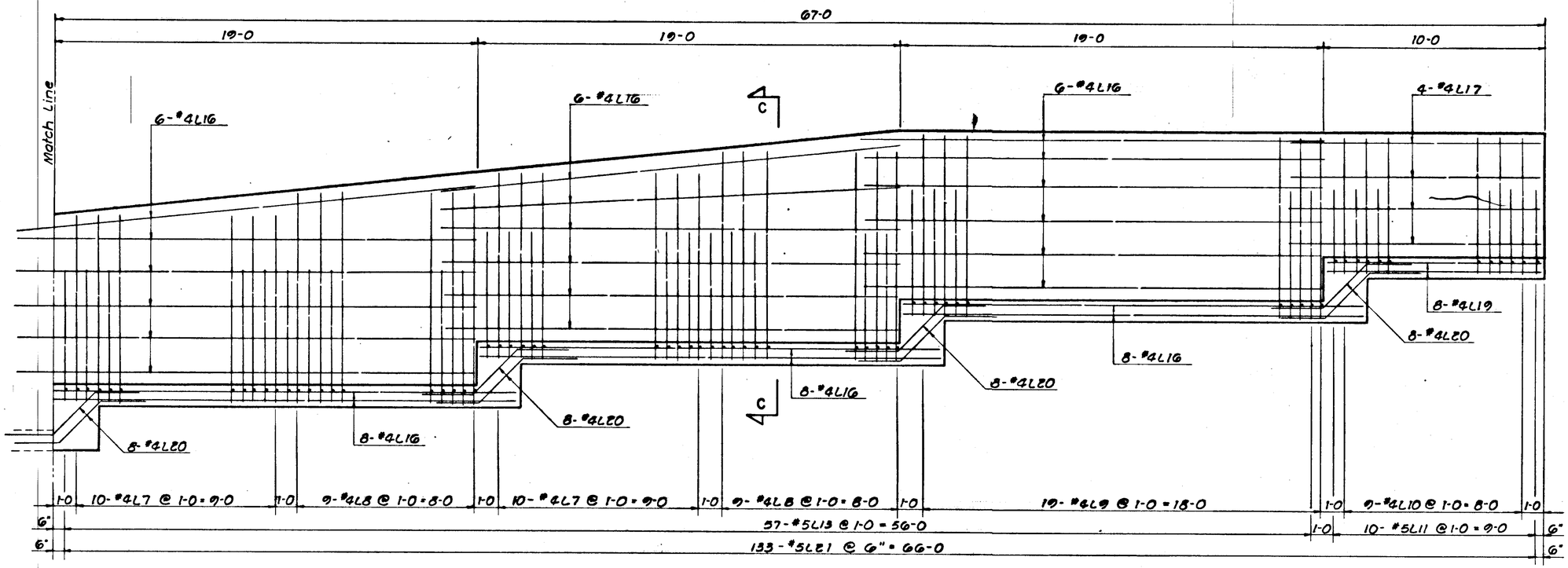
WALL ELEVATION SHOWING REINFORCING



SECTION B-B



SECTION C-C



WALL ELEVATION SHOWING REINFORCING

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

REINFORCED CONCRETE
RETAINING WALL "L"
LT. STA. 50+50.11 TO STA. 51+43.11 "H" ST.

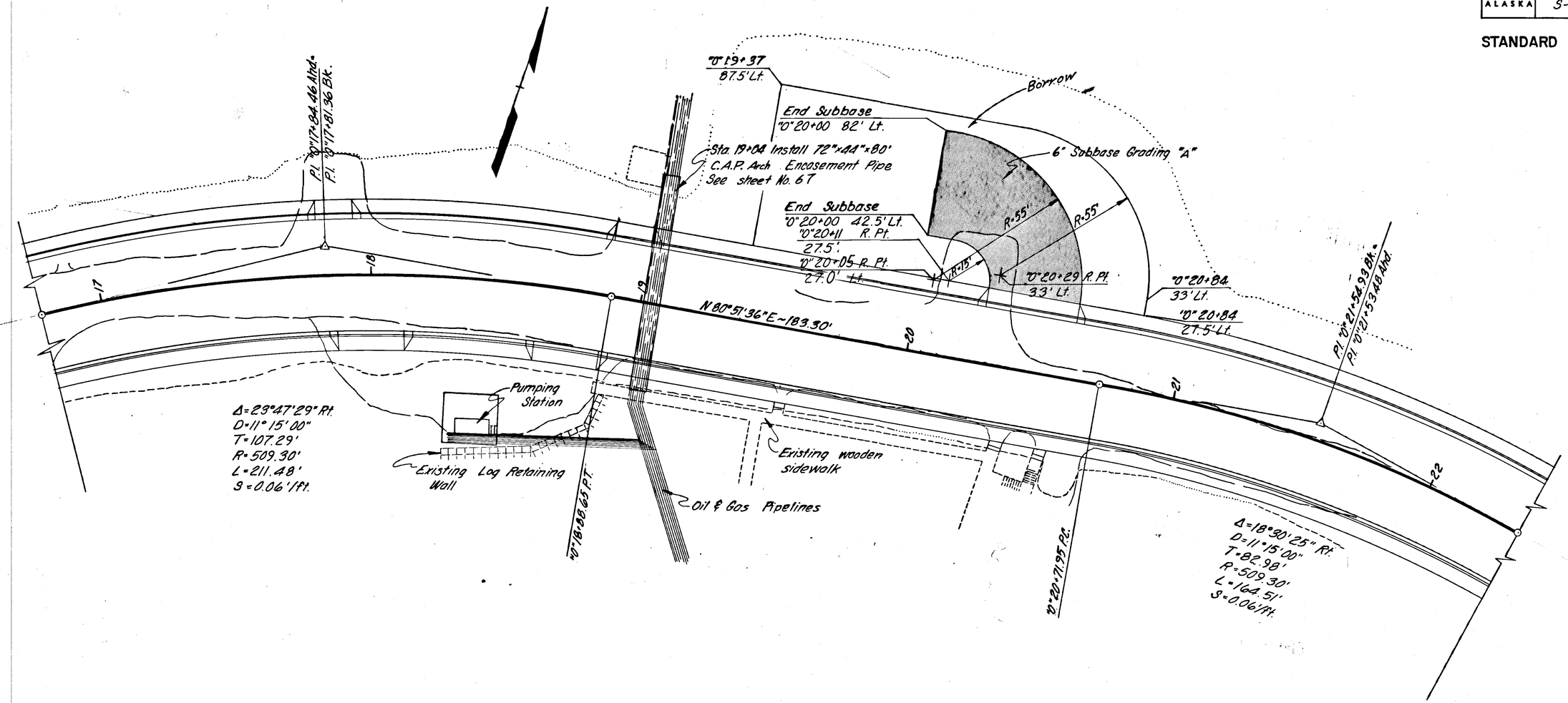
DESIGN	BLF
DR. BY	EPS
CK. BY	DS
DATE	
JOB NO.	170-071

WYLLER - KILLEWICH - VAN DOREN & HAZARD
ENGINEERS - ARCHITECTS

SHEET

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	66	175

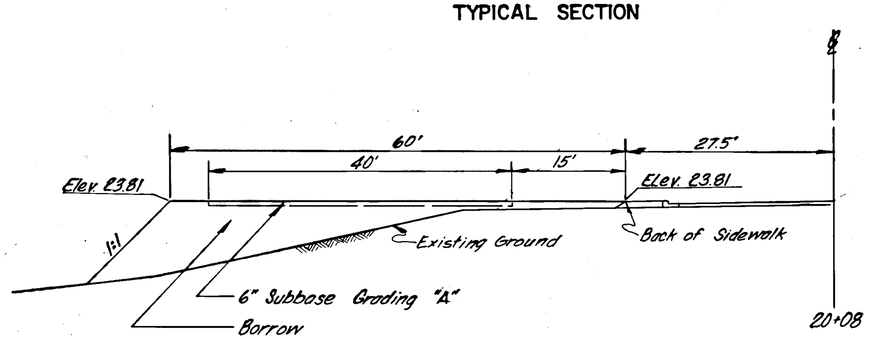
STANDARD OIL PARKING DETAIL



Note: Earthwork quantities are included in appropriate mainline sheet quantities.

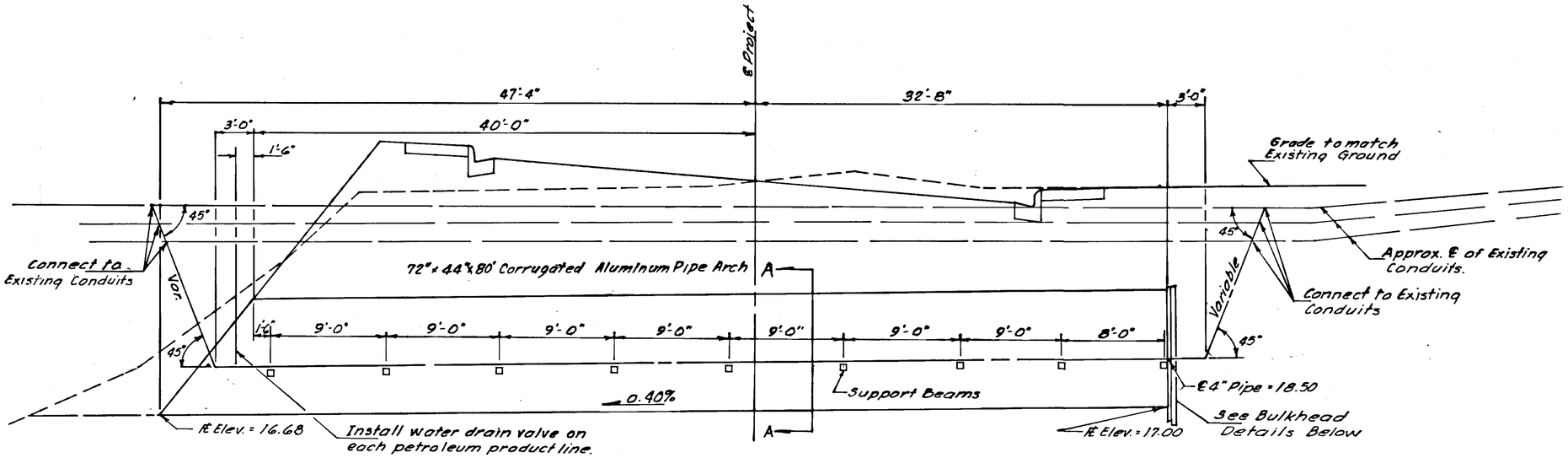
Borrow = 2909 Tons
Subbase Grading "A" = 71 Tons

TYPICAL SECTION

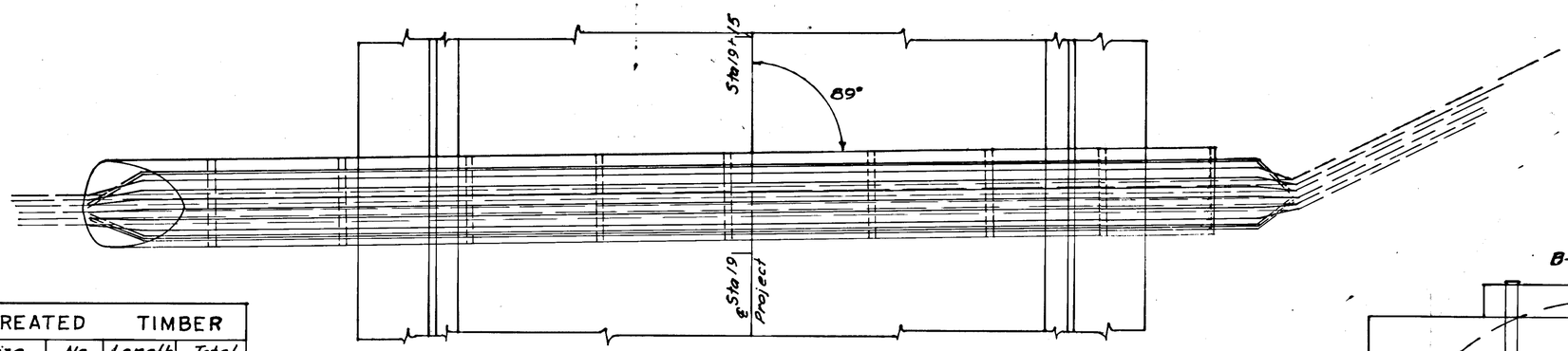


K&E 19 1252 5-71 45998-

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	67	175

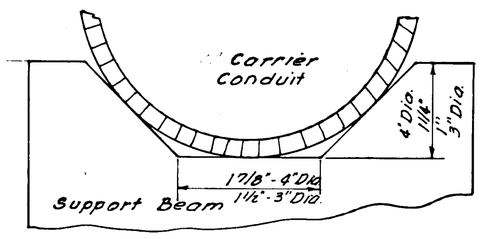


SECTION
CONDUIT ENCASEMENT PIPE
STA 19+04

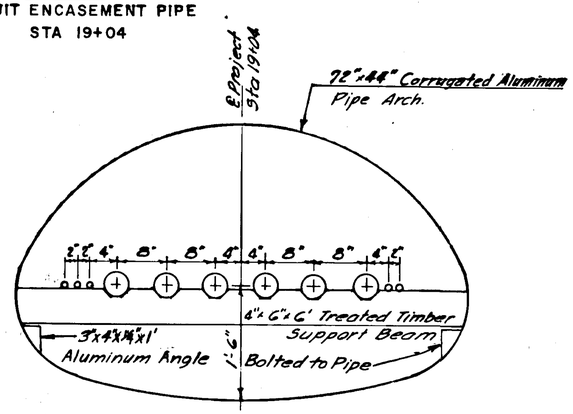


PLAN
CONDUIT ENCASEMENT PIPE
STA 19+04

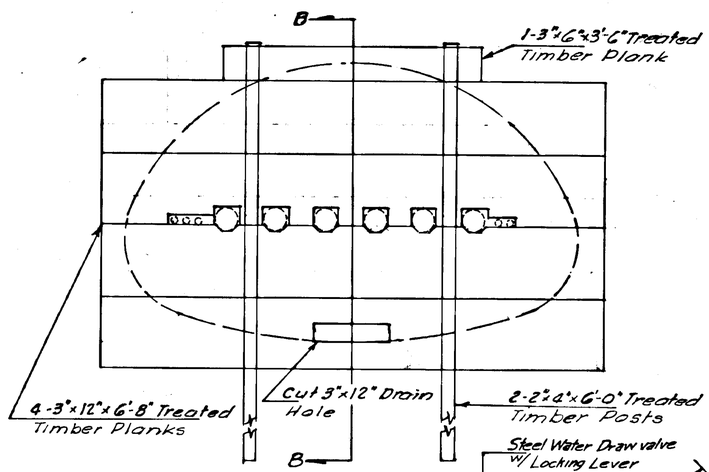
TREATED TIMBER			
Size	No.	Length	Total
3"x6"	1	3'-6"	3'-6"
3"x12"	4	6'-8"	26'-8"
2"x4"	2	6'-0"	12'-0"
4"x6"	9	6'-0"	54'-0"



NOTCH DETAIL
SUPPORT BEAM

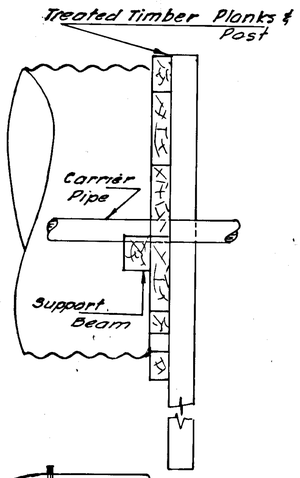


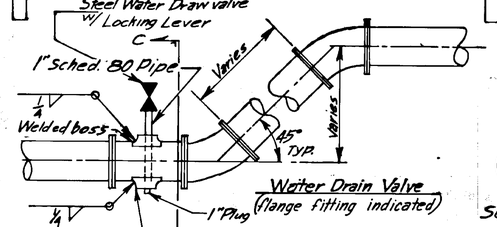
SECTION A-A
(INDICATING PIPE SPACING.)

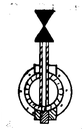


Note: Notch Bulkhead Planks as Indicated to Allow passage of Conduits.

BULKHEAD
END VIEW







Section C-C

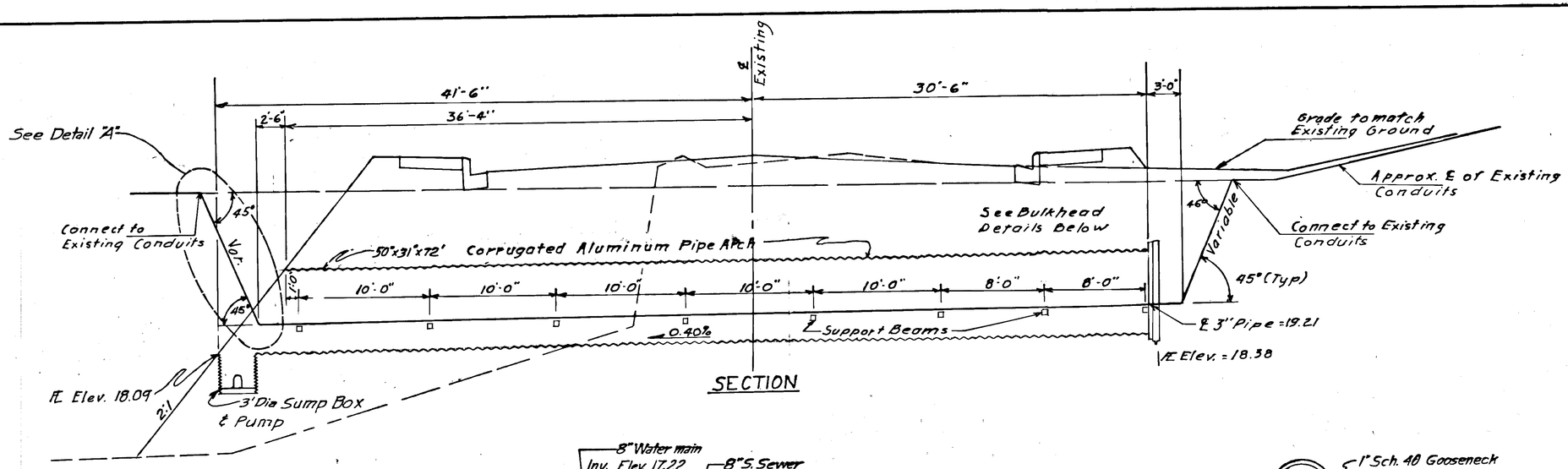
STANDARD OIL PIPING DETAIL

General Notes:

1. Overhead temporary service shall be provided during construction of oil line relocation
2. The constructor shall furnish the engineer 3 sets of shop drawings for approval for methods of furnishing temporary service.
3. Service shall not be interrupted except for transferring to temporary and back to permanent. Such interruptions shall be scheduled with Standard Oil Co.
4. All lumber shall be construction grade, 1200 p.s.i. S-4-S. Douglas fir or Hemlock, pressure treated.
5. Pressure treatment shall be coal tar creosote or cresote coal tar solution 20 lbs. per cubic foot in outer two inches as specified in Federal Specification TT-W-571g.
6. The contractor shall connect and bend pipes as necessary for required spacing and grade to meet new construction.
7. The contractor may use either flanged pipe or threaded pipe. If flanged pipe is used, adjacent flanges shall be staggered.
8. Bolts, Nuts, Metal washers shall be commercial quality cadmium plated steel.

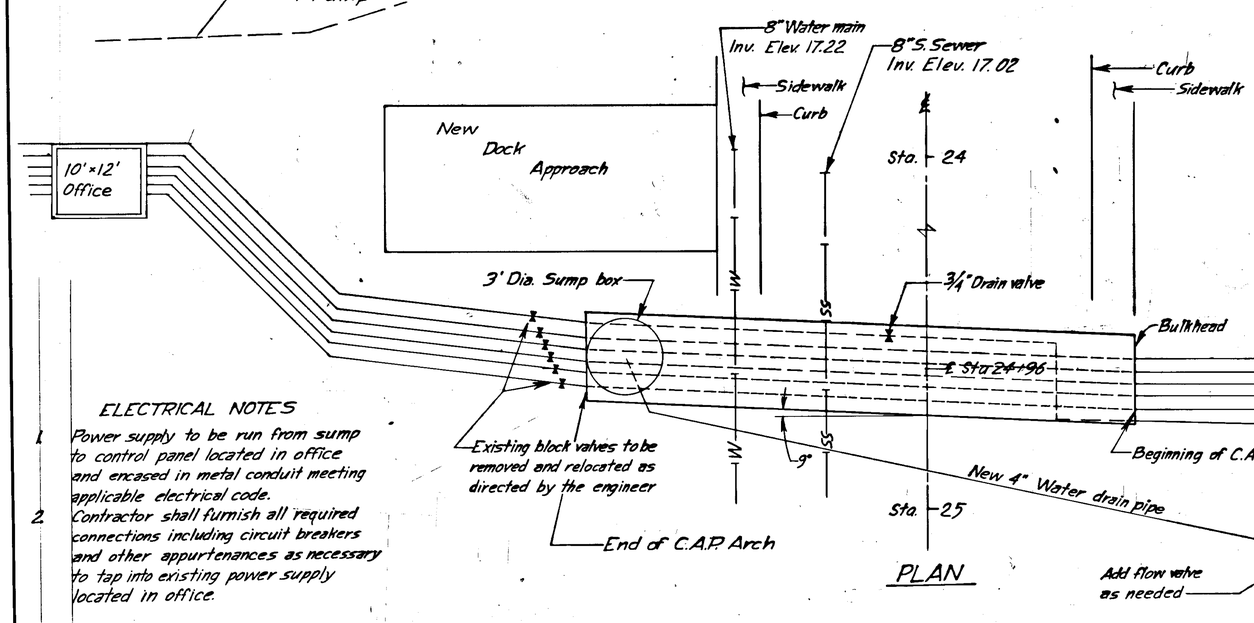
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	68	175

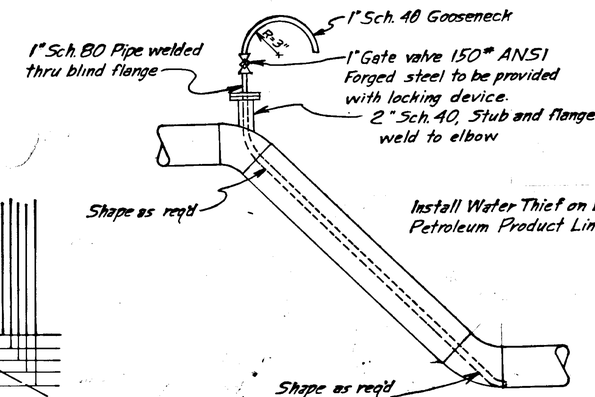
UNION OIL PIPING DETAIL



General Notes:

1. Overhead Temporary Service shall be provided during construction of oil line relocation.
2. The constructor shall furnish the Engineer 3 sets of shop drawings for approval for methods of furnishing temporary service.
3. Service shall not be interrupted except for transferring to temporary and back to permanent. Such interruptions shall be scheduled with Union Oil Co.
4. All lumber shall be construction grade, 1200p.s.i. S-4-S. Douglas fir or Hemlock, pressure treated.
5. Pressure treatment shall be coal tar creosote or cresote coal tar solution 20 lbs per cubic foot in outer two inches as specified in Federal Specification TT-W-571g.
6. The contractor shall connect and bend pipes as necessary for required spacing and grade to meet new construction.
7. The contractor may use either flanged pipe or threaded pipe. If flanged pipe is used, adjacent flanges shall be staggered.
8. Bolts, Nuts, Metal washers shall be commercial quality cadmium plated steel.

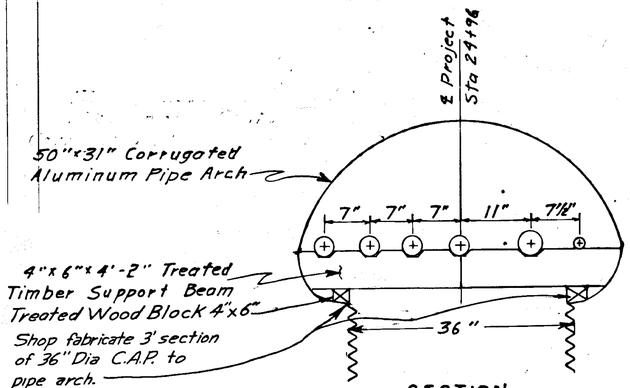




ELECTRICAL NOTES

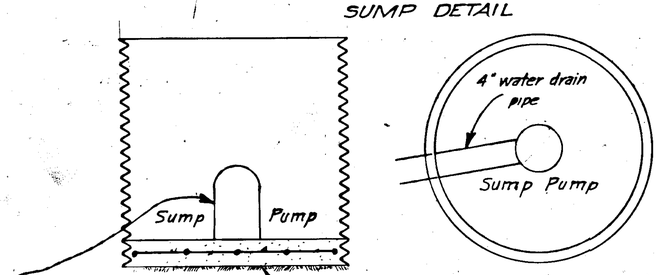
1. Power supply to be run from sump to control panel located in office and encased in metal conduit meeting applicable electrical code.
2. Contractor shall furnish all required connections including circuit breakers and other appurtenances as necessary to tap into existing power supply located in office.

TREATED TIMBER			
Size	No.	Length	Total
3"x12"	1	4'-0"	4'-0"
3"x12"	2	5'-0"	10'-0"
2"x4"	2	5'-0"	10'-0"
4"x6"	8	4'-2"	33'-4"

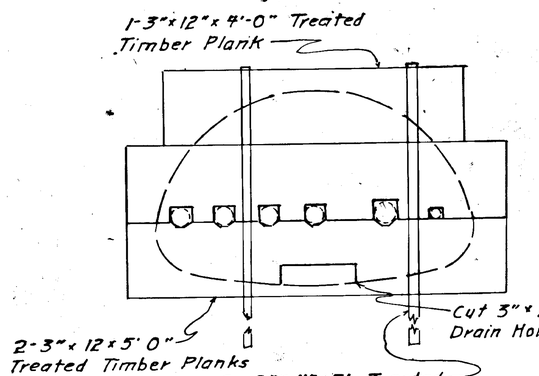


SECTION AT SUMP

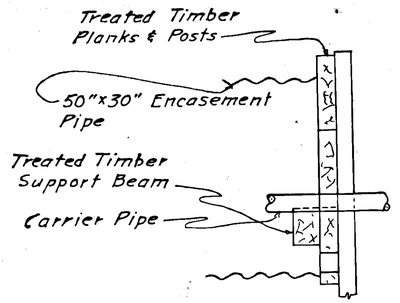
SUMP DETAIL



Note: Sump pump will be Pacific Pumping Co Mod 2½AR-T30 with ¾ H.P. TEFC Motor, Explosion proof Controls and DBL Bracket Motor Mount Sump or equal. 18"O.D.x30" Deep

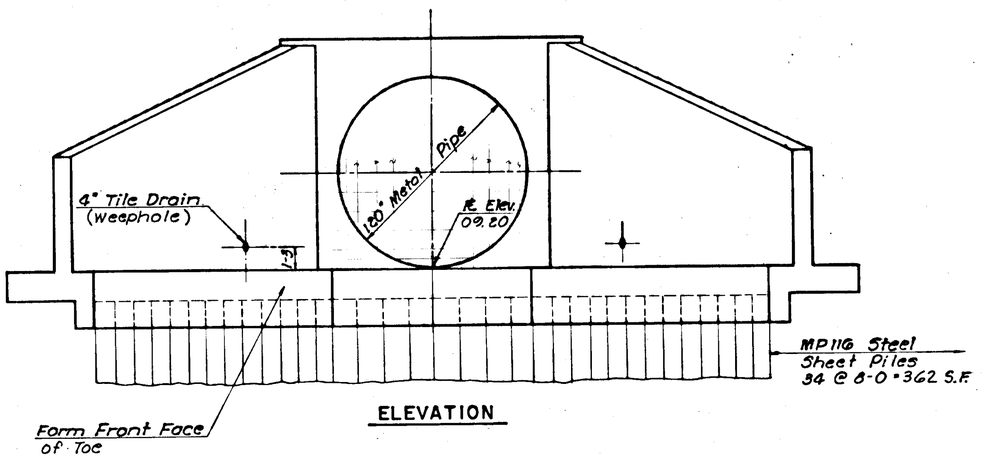


BULKHEAD

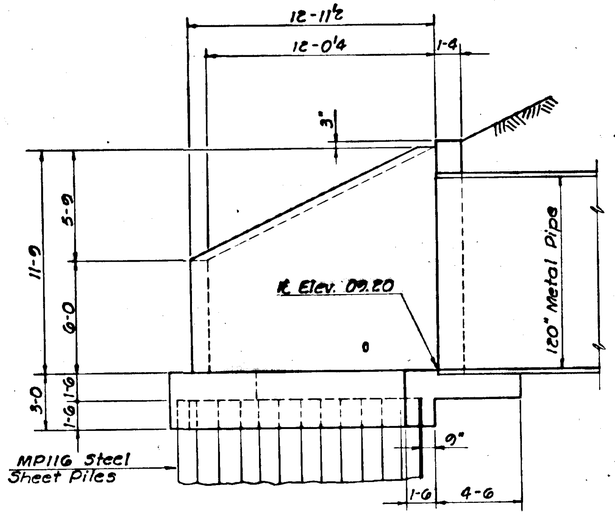


Note: Notch Bulkhead Planks as indicated to allow Passage of Conduits

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	69 (67)	175



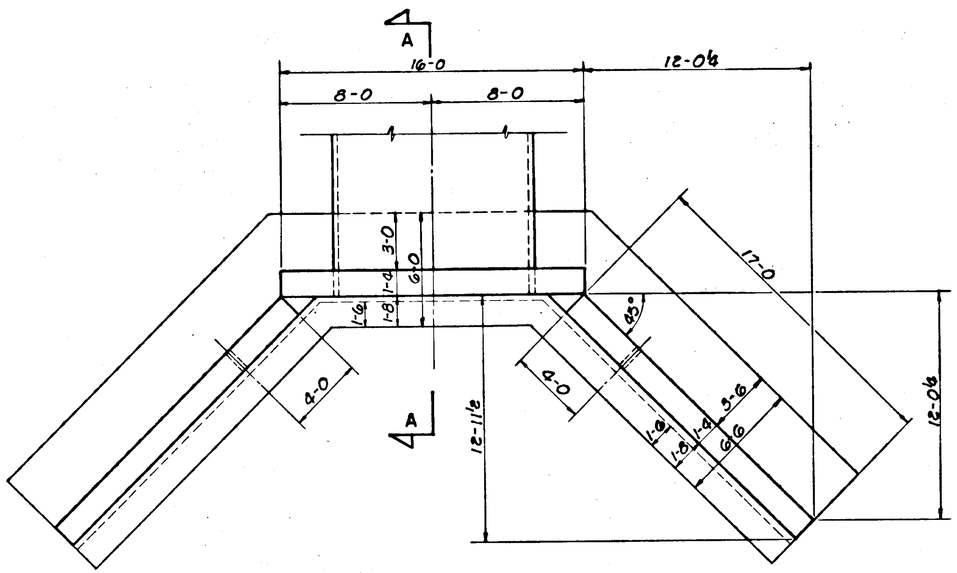
ELEVATION



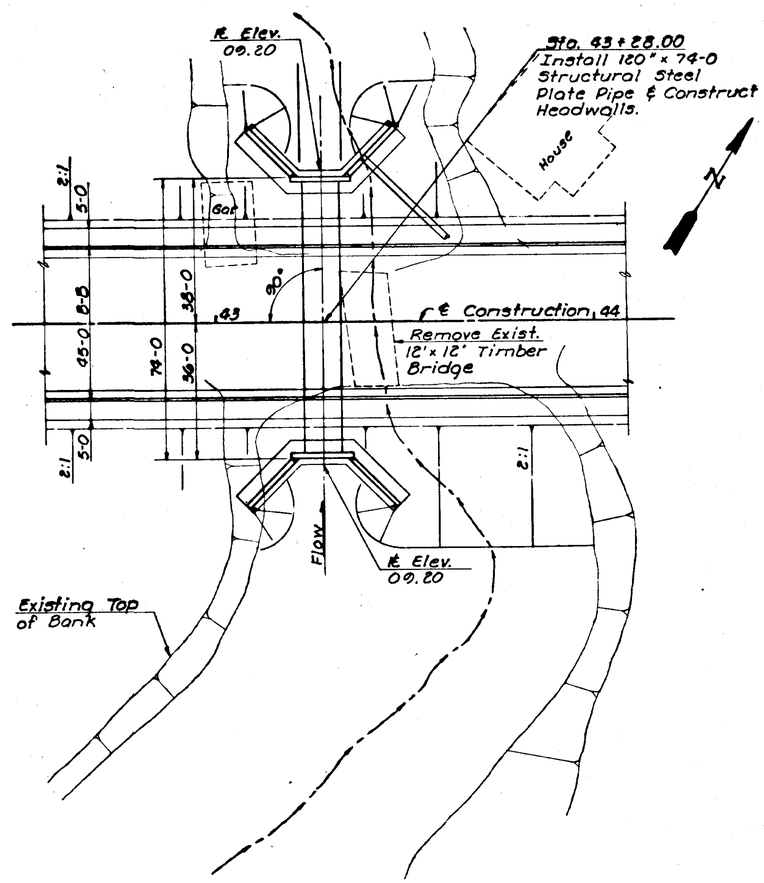
SECTION A-A

GENERAL NOTES

1. Design Unit Stresses: f'c = 3,500 psi., fc = 1,200 psi., fs = 20,000 psi.
2. Class A Concrete shall be used throughout. Bevel all exposed edges with a ¾" triangular molding unless otherwise noted.
3. All dimensions relative to reinforcing steel are to centerline of bar unless otherwise noted.
4. Coarse Aggregate shall be placed behind each weephole to occupy a space extending 15" in all directions above weephole flowline.
5. The Contractor shall excavate the channel thru the site to flowline elevation prior to installation of pipe and construction of headwalls.



PLAN



CONSTRUCTION LAYOUT

SUMMARY OF QUANTITIES

Class A Concrete	87.0	Cu. Yds.
Reinforcing Steel	6410	Lbs.
Steel Sheet Piles (MP116)	724	Sq. Ft.
Class I Excavation for Structures	132	Cu. Yds

Note: Quantities shown are for two headwalls

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

DESIGN	L.L.W.
DR. BY	E.E.S.
CK. BY	D.S.
DATE	
JOB NO.	170-071

REINFORCED CONCRETE HEADWALL DETAILS

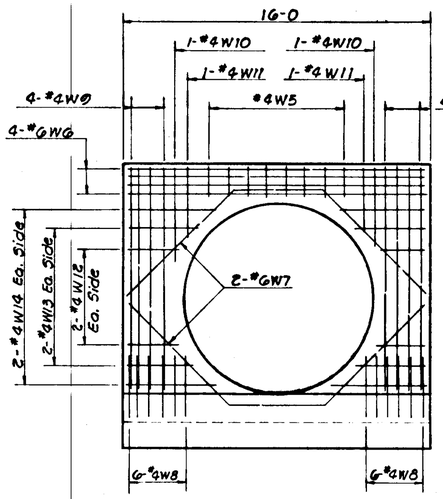
STA. 43+28.00

W K
V H

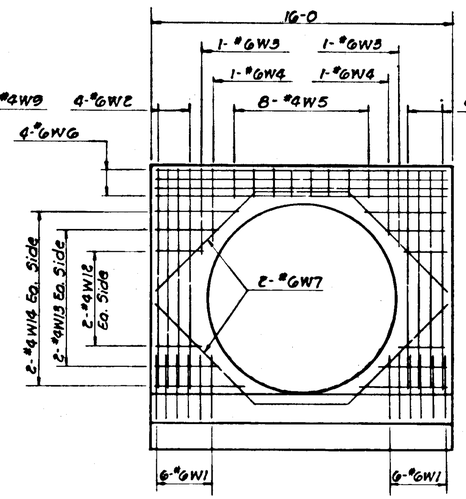
WYLLER - KILLEWICH - VAN DOREN & HAZARD
ENGINEERS - ARCHITECTS
JUNEAU, ALASKA

SHEET
OF

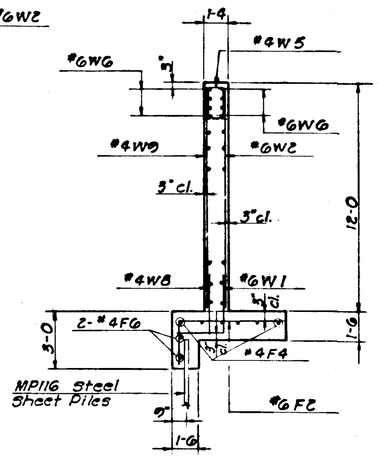
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	70/68	175



HEADWALL REINFORCING
(Front Face)

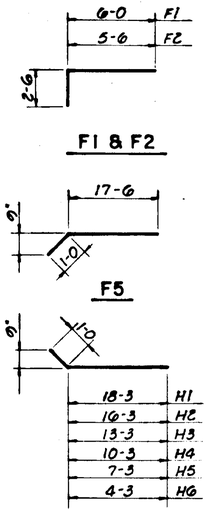


HEADWALL REINFORCING
(Back Face)



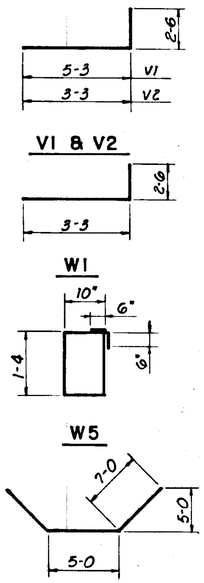
WALL SECTION

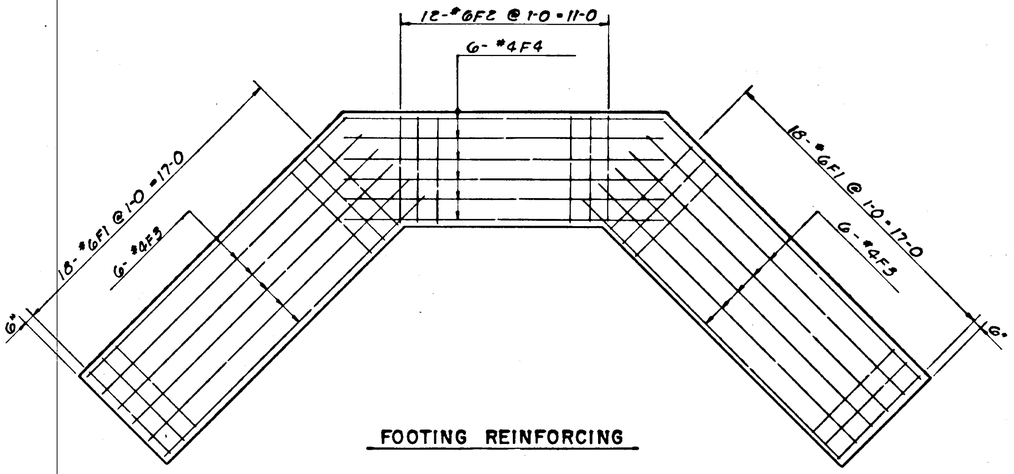
BAR SCHEDULE			
Mark	Size	No.	Length
F1	6	72	8-6
F2	6	24	8-0
F3	4	24	10-6
F4	4	12	16-6
F5	4	8	18-6
F6	4	4	10-6
H1	4	24	10-3
H2	4	4	17-3
H3	4	4	14-3
H4	4	4	11-3
H5	4	4	8-3
H6	4	4	5-3
H7	5	16	17-0
H8	4	24	19-0
H9	4	4	17-0
H10	4	4	14-0
H11	4	4	11-0
H12	4	4	8-0
H13	4	4	5-0



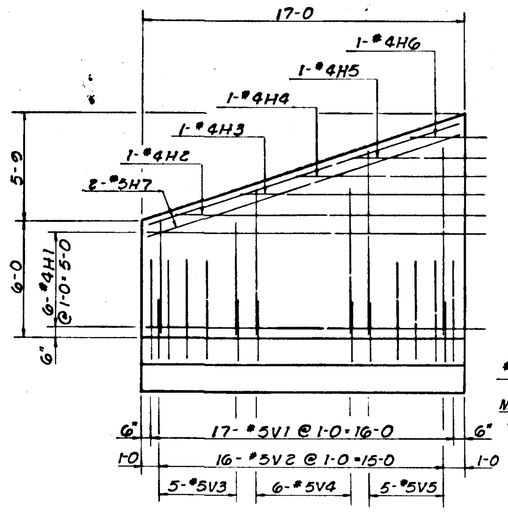
BAR SCHEDULE			
Mark	Size	No.	Length
V1	5	68	7-9
V2	5	64	5-9
V3	5	20	6-0
V4	5	24	7-6
V5	5	20	9-6
V6	4	64	3-3
V7	4	20	6-0
V8	4	24	7-6
V9	4	20	9-6
W1	6	24	5-9
W2	6	16	11-9
W3	6	4	4-0
W4	6	4	3-6
W5	4	16	5-4
W6	6	16	15-6
W7	6	8	19-0
W8	4	24	3-3
W9	4	16	11-9
W10	4	4	4-0
W11	4	4	3-6
W12	4	16	3-0
W13	4	16	3-6
W14	4	16	4-6
W15	4	4	3-0

(Bar dimensions are Out to Out)

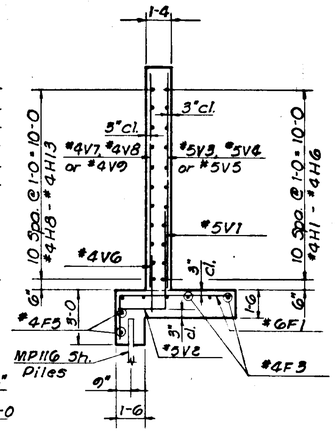




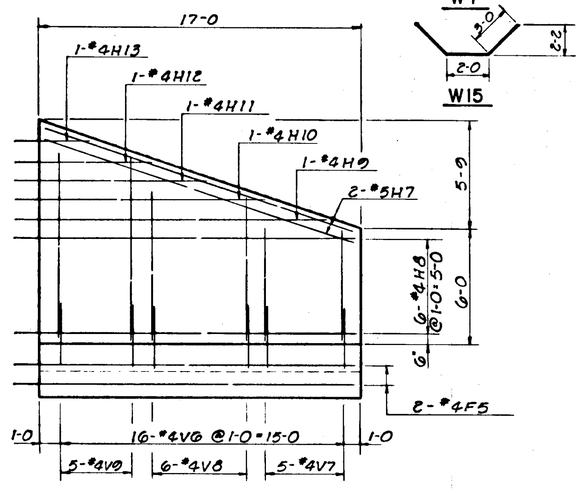
FOOTING REINFORCING



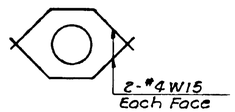
WING REINFORCING
(Back Face)



WING SECTION



WING REINFORCING
(Front Face)



ADDITIONAL REINFORCING
AT OPENING FOR 18" PIPE

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

DESIGN	LCW
DR. BY	EES
CK. BY	DS
DATE	
JOB NO.	170-071

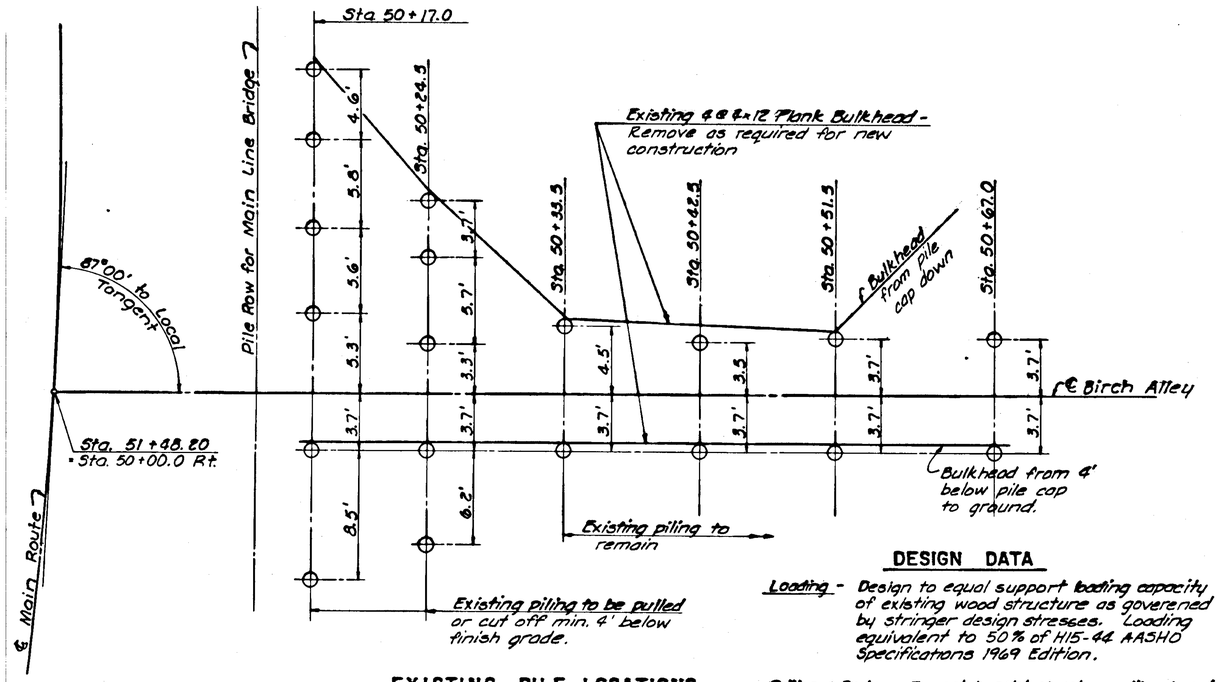
REINFORCED CONCRETE HEADWALL DETAILS

STA. 43+28.00

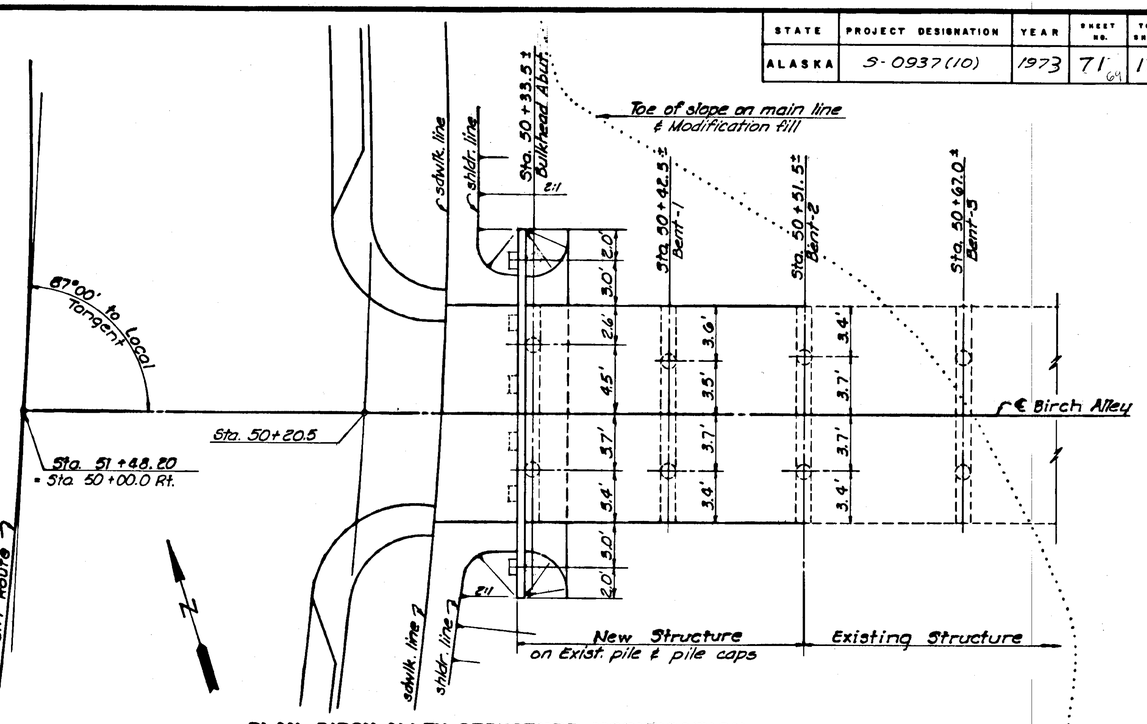
W K WYLLER - KILLEWICH - VAN DOREN & HAZARD
ENGINEERS ARCHITECTS

SHEET

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	71	175



EXISTING PILE LOCATIONS



PLAN - BIRCH ALLEY STRUCTURE MODIFICATION

DESIGN DATA

Loading - Design to equal support loading capacity of existing wood structure as governed by stringer design stresses. Loading equivalent to 50% of H15-44 AASHO Specifications 1969 Edition.

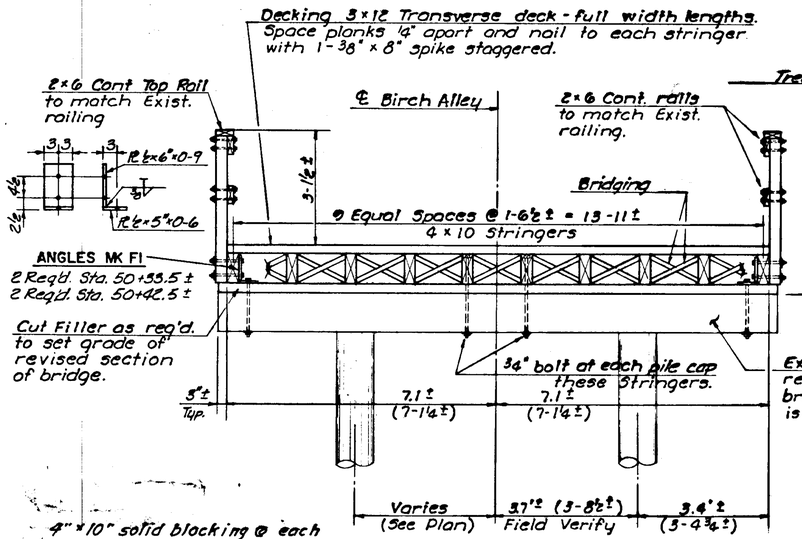
Railing & Posts - To match exist. structure railing & posts.

Design Pile Load
Existing Piles - Unmodified with capacity as provided for existing structure.

Treated Timber - All timber except piling shall be Douglas Fir, Coastal Region, 345 Lumber - 1500 p.s.i. Stress Grade in accordance with W.C.L.I.B. Grading & Dressing Rules. Minimum Allowable Working Stresses as follows:

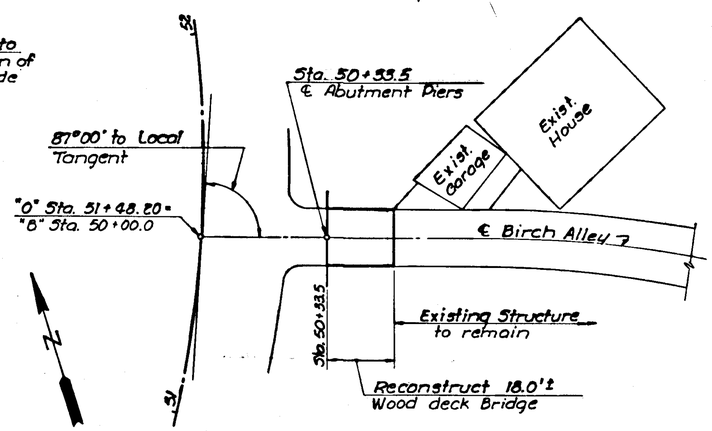
Flexure	= 1500 #/□".
Horiz. Shear	= 120 #/□".
Comp. ⊥ to Grain	= 390 #/□".
Comp. // to Grain	= 1200 #/□".
Modulus of Elasticity	= 1,760,000 #/□".

Pressure treatment shall be equal to that shown for Standard and Union Oil dock approaches.

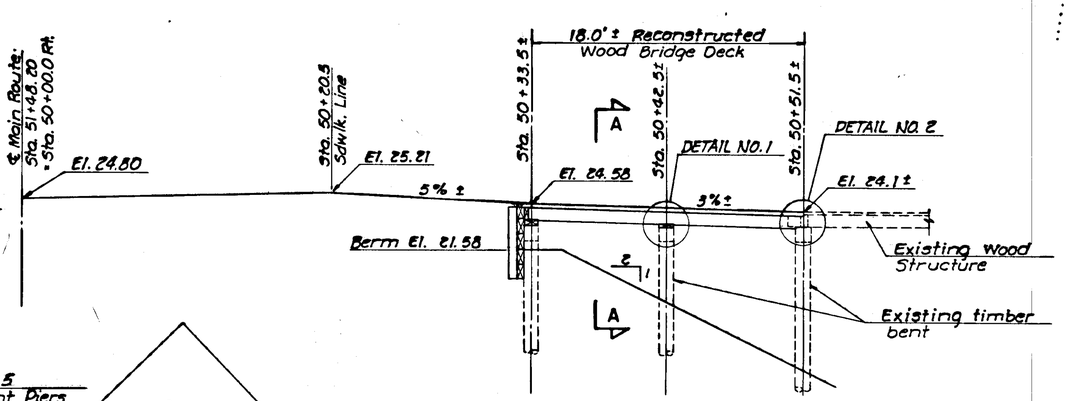


4" x 10" solid blocking @ each bent and 2" x 6" bridging at midspan. Each piece shall be nailed to stringers with 2-16d nails at each end. Stringers shall be nailed to each cap with 2-30d nails.

SECTION A-A



KEY LAYOUT - BIRCH ALLEY STRUCTURE MODIFICATION



PROFILE GRADE

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

DESIGN	L.L.W.
DR. BY	E.E.S.
CK. BY	J.W.H.
DATE	
JOB NO.	1-70-071

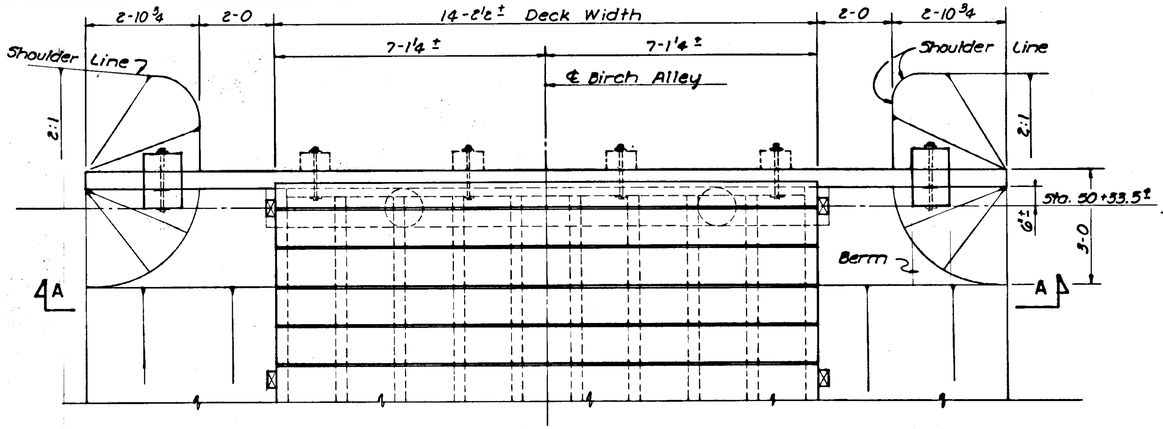
BIRCH ALLEY STRUCTURAL MODIFICATION

RT. STA. 51+48.20

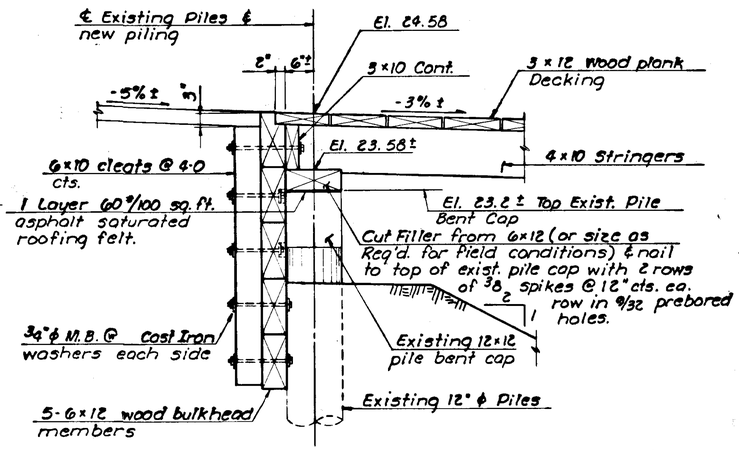
WYLLER - KILLEWICH - VAN DOREN & HAZARD
ENGINEERS - ARCHITECTS

SHEET

STATE	PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
ALASKA	S-0937(10)	1973	72	175



PLAN BULKHEAD ABUTMENT



SECTION B-B

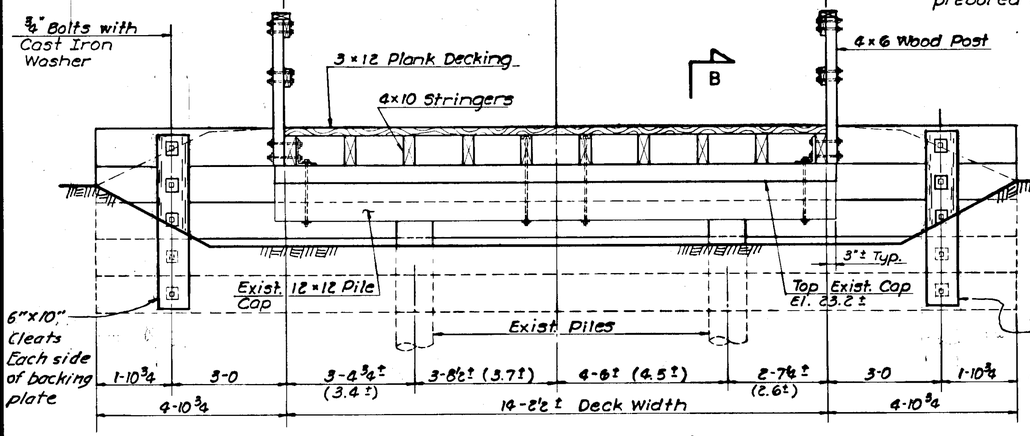
NOTES

1. All lumber shall be S4S
2. All new lumber and Timber shall be treated
3. Unless otherwise noted all Bolts shall be ¾" Machine bolts with square heads and nuts. All bolts shall be fitted with a cast iron O.G or malleable iron washer at each end unless otherwise noted. No washer Req'd. at steel Plate or angle.
4. All Hardware shall be Galvanized.
5. The Contractor shall Field verify dimensions and elevations of existing piles and pile bents of Exist. structure in area of structure modification.

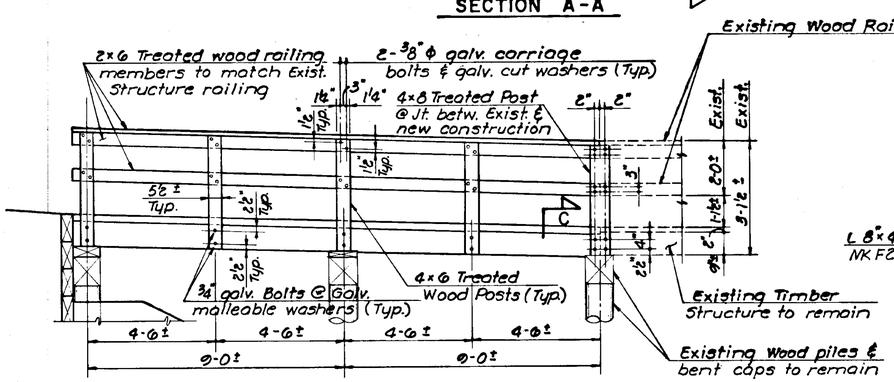
TIMBER - MATERIAL LIST				
ITEM	NO.	SIZE	LENGTH	BD. FT.
New 3" wood deck	19	3 x 12	14-2½±	798
New Wood Stringer	10	4 x 10	20-0	670
Bridging	36	2 x 6	1-7 ±	54
Pile Cap Filler Plate	1	Cut 6x12	14-8½±	90
" " " "	1	Cut 4x12	14-8½±	60
Abutment Bulkhead	5	6x12	24-0	720
" "	8	6x10	4-6	180
" "	1	3x10	14-2½±	38
Railing	6	2x6	18-6±	111
Railing Posts	8	4x6	4-0±	64
" "	2	4x8	4-0±	21
Stringer Spacers	8	1x8	9" ±	4
Solid blocking	18	4x10	1-6½±	90
			Total =	2800

SUMMARY TIMBER MATERIAL

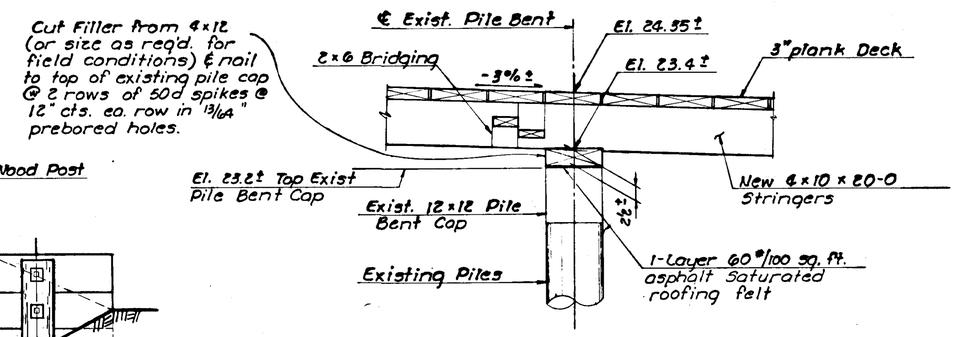
TREATED TIMBER — 2900 MBM



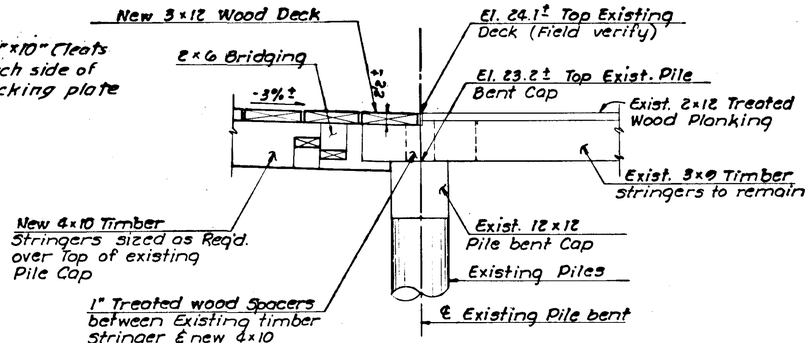
SECTION A-A



ELEVATION NEW RAILING SOUTH SIDE - NORTH SIDE SIMILAR



DETAIL - NO. 1



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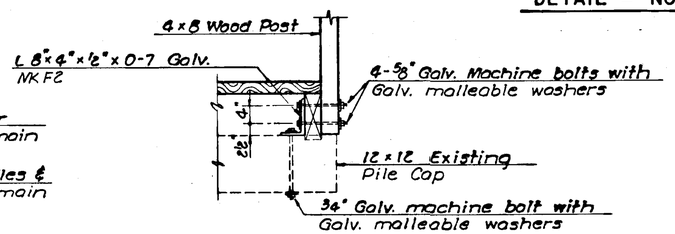


SECTION C-C

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

DESIGN C.C.W.
DR. BY E.C.S
CK. BY C.C.W.
DATE
JOB NO. 1-70-071

BIRCH ALLEY
STRUCTURAL MODIFICATION
RT. STA. 51+48.20

W K
V H

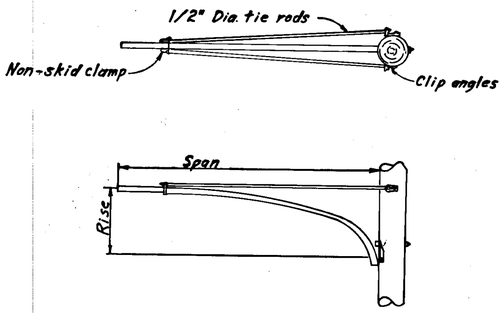
WYLLER - KILLEWICH - VAN DOREN & HAZARD
ENGINEERS · ARCHITECTS
HUMANA, ALASKA

SHEET

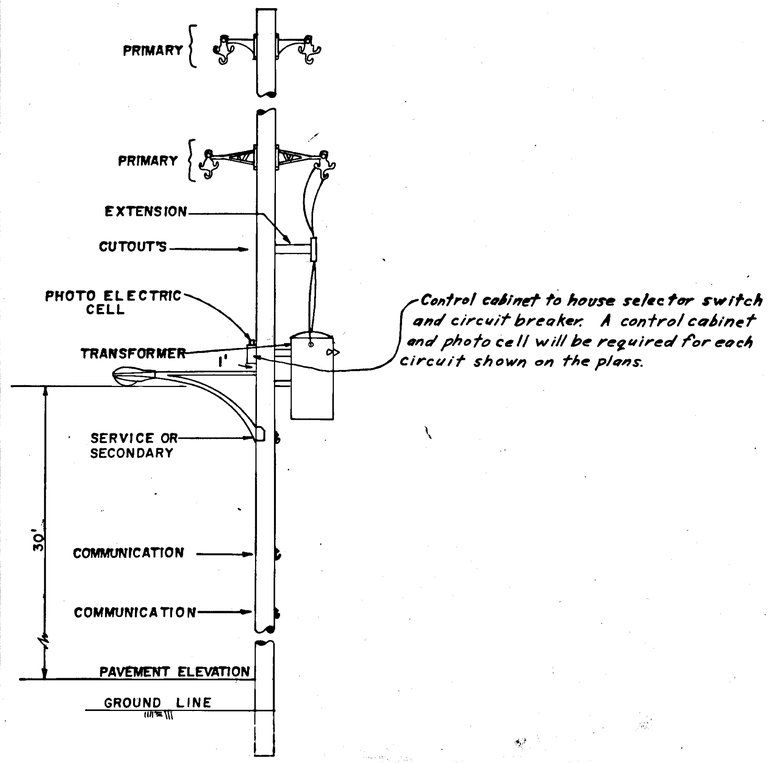
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937 (10)	1973	82	175

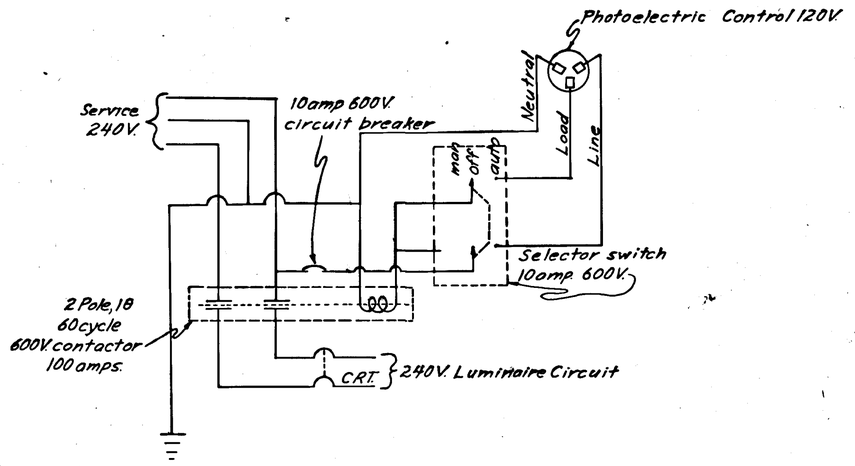
ILLUMINATION DETAILS

TIE ROD TYPE MAST ARMS



SPAN	RISE
6'	2' 3½"
7'	2' 3½"
8'	2' 6"
9	2' 6"
10'	2' 6"
11'	3' 0"
12'	3' 0"
13'	3' 0"
14'	3' 6"
15'	3' 6"
16'	3' 6"





240V. SCHEMATIC DIAGRAM WITH PHOTOELECTRIC CONTROL

GENERAL NOTES

1. All luminares shall be 250 watt high pressure sodium Type II or Type III as indicated on the plans. Semi-cut off. Mounted 30' above the roadway as per standard drawing L-03.00 or the pole mounting detail shown on this sheet. All luminares shall be equipped with glare shields.

2. All mast arms to be mounted on power poles shall meet the plans and specifications of the U-29 Series tie rod type mast arms manufactured by Universal Pole Bracket Corporation or equal.

3. Light standard locations given are approximate only and are subject to minor field adjustment by the engineer. For power pole locations see utility plans.

4. All junction boxes are TYPE I unless otherwise indicated on the plans.

5. All conduit sizes shall be 2 inch. There shall be rigid metal conduit from power sources to load centers, where wires pass under the roadway, under sidewalks, in concrete, and above grade.

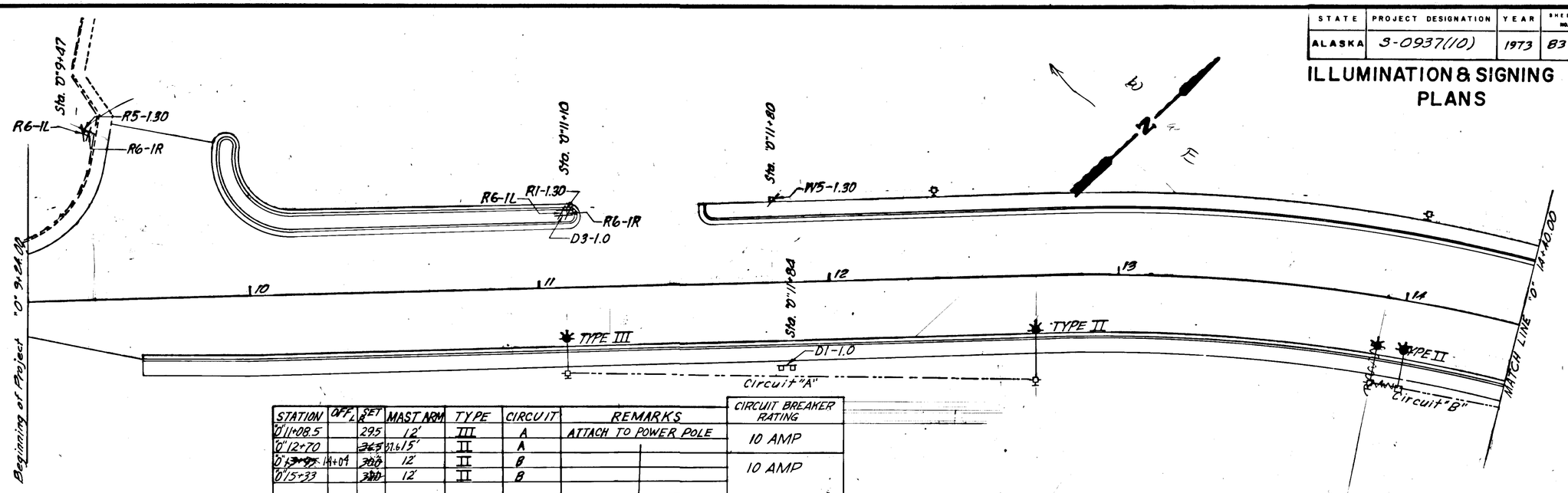
6. A copy of the schematic diagram is to be mounted on the inside face of cabinet door.

7. All Standards installed in sidewalk shall have the rear of the base plate in line with the back of sidewalk.

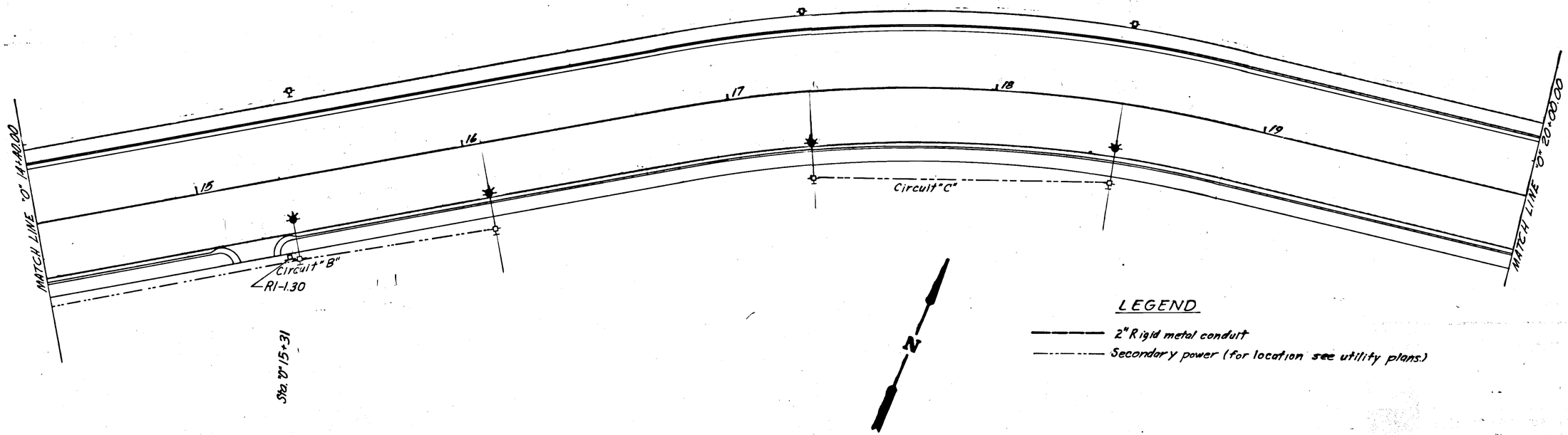
K&E 10 1252 5-71 45998

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	83	175

ILLUMINATION & SIGNING PLANS

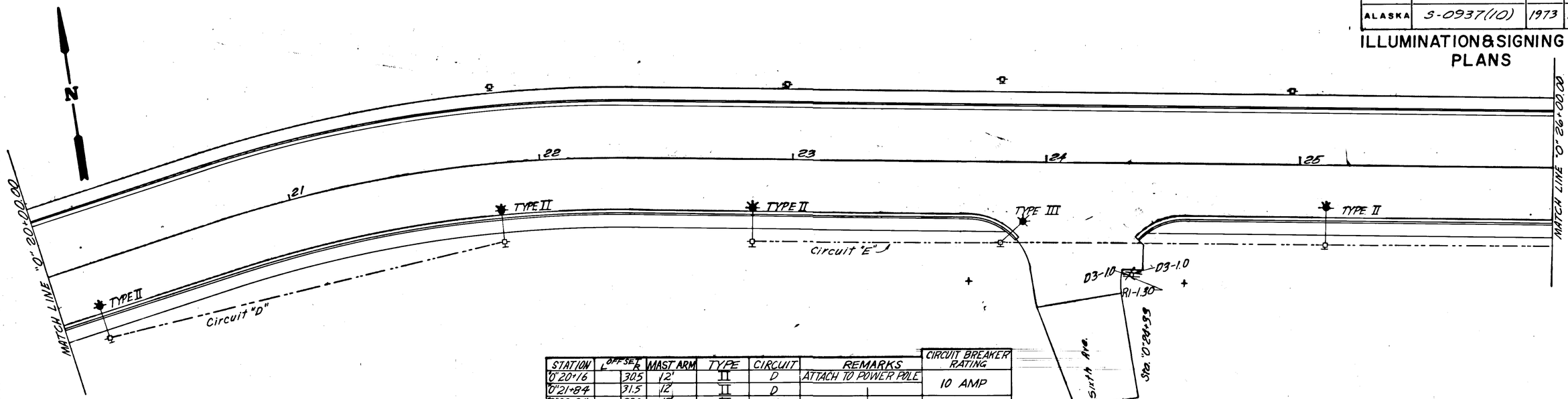


STATION	OFFSET L	OFFSET R	MAST ARM	TYPE	CIRCUIT	REMARKS	CIRCUIT BREAKER RATING
0"11+08.5		295	12'	III	A	ATTACH TO POWER POLE	10 AMP
0"12+70		~~365~~ 371	15'	II	A		
0"~~13+97~~ 14+09		~~300~~ 300	12'	II	B		10 AMP
0"15+33		~~300~~ 300	12'	II	B		
		321.6					
0"16+~~87~~ 19		~~320~~ 320	12'	II	B		
0"17+30		320	12'	II	C		10 AMP
0"18+46		305	12'	II	C		

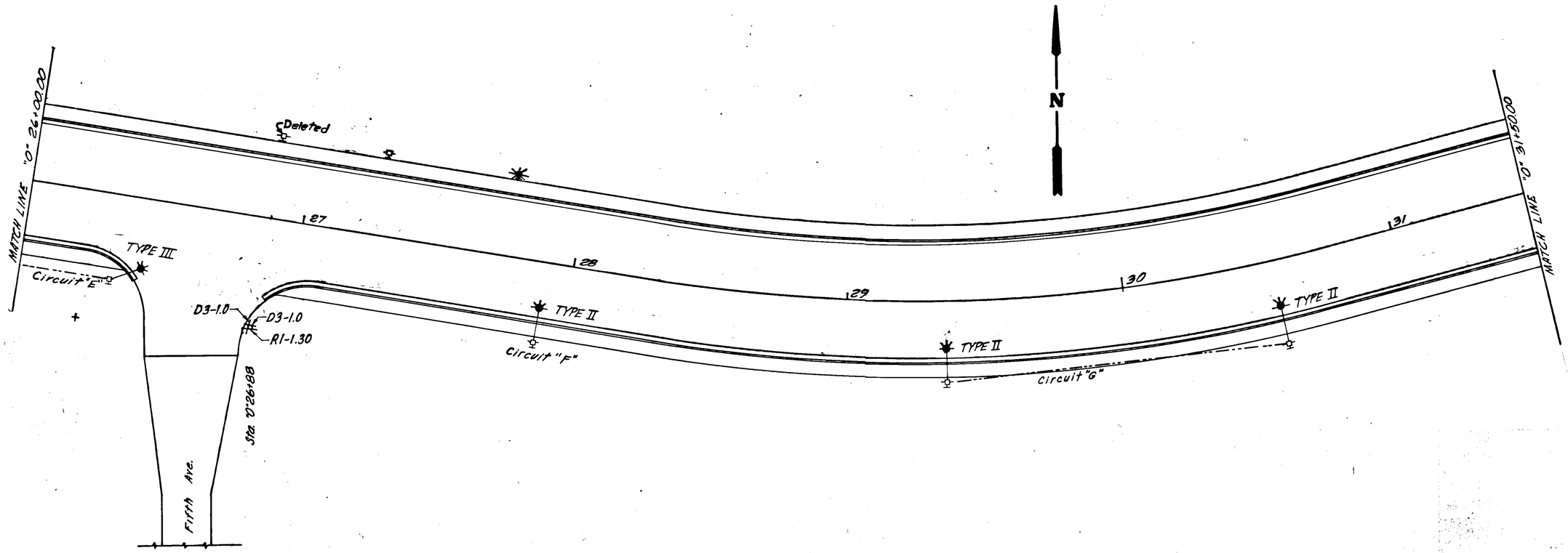


STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	84	175

ILLUMINATION & SIGNING PLANS



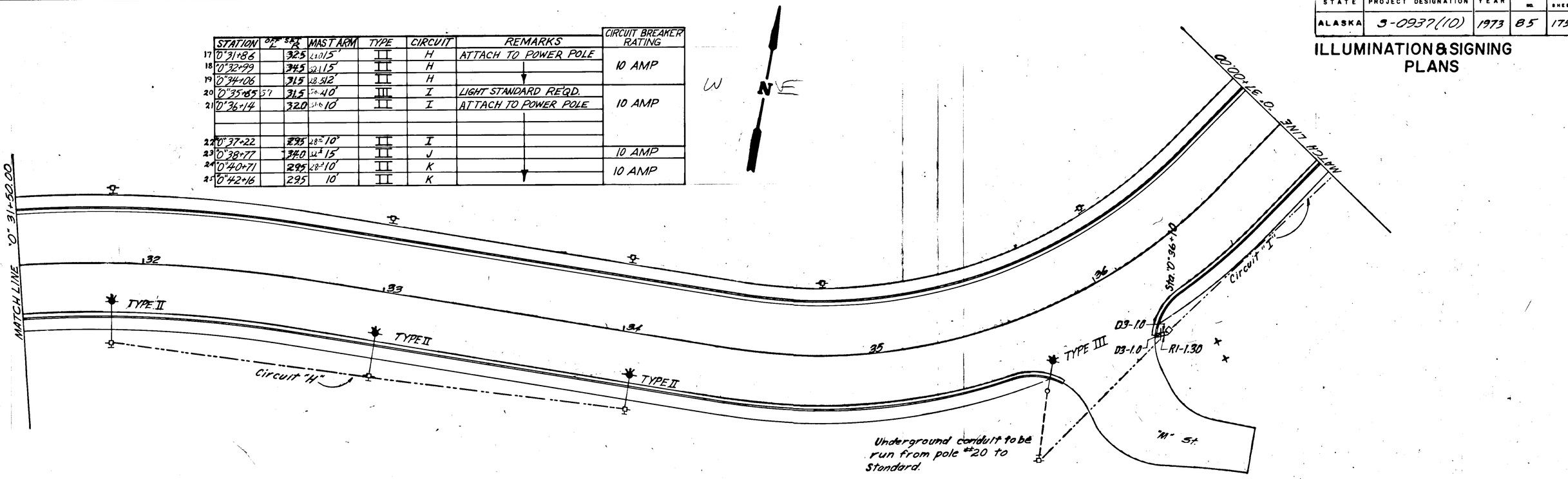
STATION	OFFSET L	OFFSET R	MAST ARM	TYPE	CIRCUIT	REMARKS	CIRCUIT BREAKER RATING
"O" 20+16		30.5	12'	II	D	ATTACH TO POWER POLE	10 AMP
"O" 21+84		31.5	12'	II	D		
"O" 22+84		33.0	12'	II	E		10 AMP
"O" 23+81		32.5	10'	III	E		
"O" 25+11		32.0	12'	II	E		
"O" 26+34		31.0	10'	III	E		
"O" 27+90	31.5	~~29.5~~	10'	II	F		10 AMP
"O" 29+36		29.5	10'	II	G		10 AMP
"O" 30+55		31.0	12'	II	G		



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	85	175

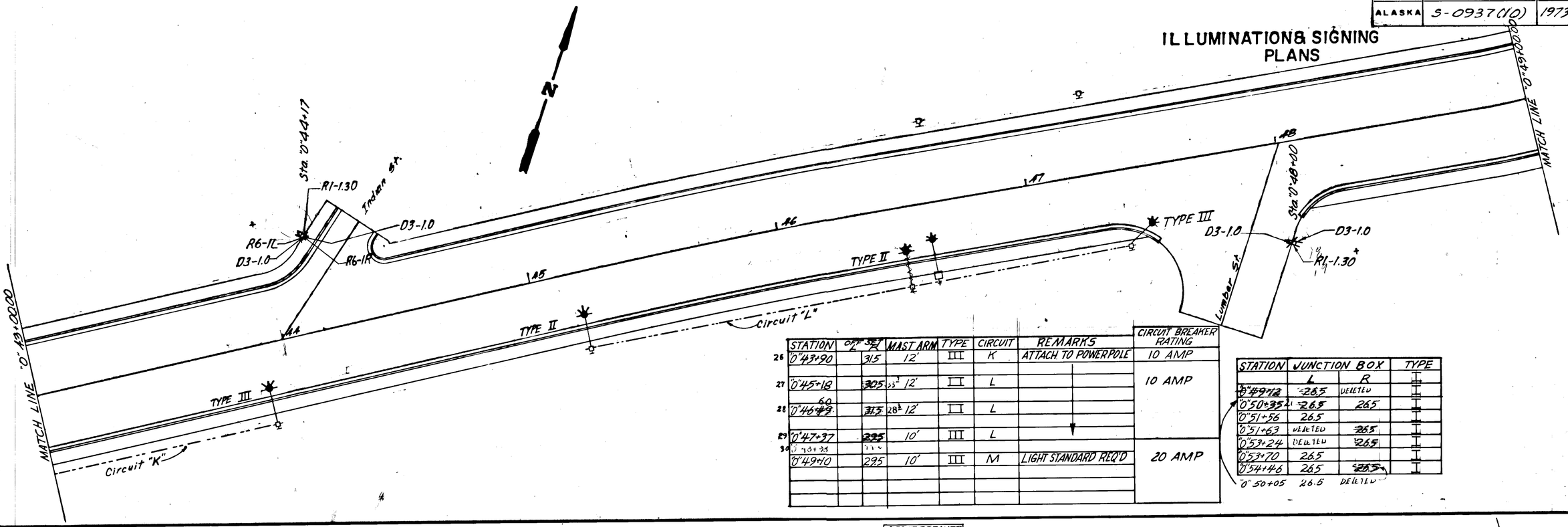
ILLUMINATION & SIGNING PLANS

	STATION	OFF SET L	OFF SET R	MAST ARM	TYPE	CIRCUIT	REMARKS	CIRCUIT BREAKER RATING
17	0"31+86		325	40 15'	II	H	ATTACH TO POWER POLE	10 AMP
18	0"32+99		345	52 15'	II	H		
19	0"34+06		315	48 5½'	II	H		
20	0"35+85	57	315	50 40'	III	I	LIGHT STANDARD RE'QD.	10 AMP
21	0"36+14		320	56 10'	II	I	ATTACH TO POWER POLE	
22	0"37+22		295	28 10'	II	I		
23	0"38+77		340	42 15'	II	J		10 AMP
24	0"40+71		295	28 10'	II	K		10 AMP
25	0"42+16		295	10'	II	K		



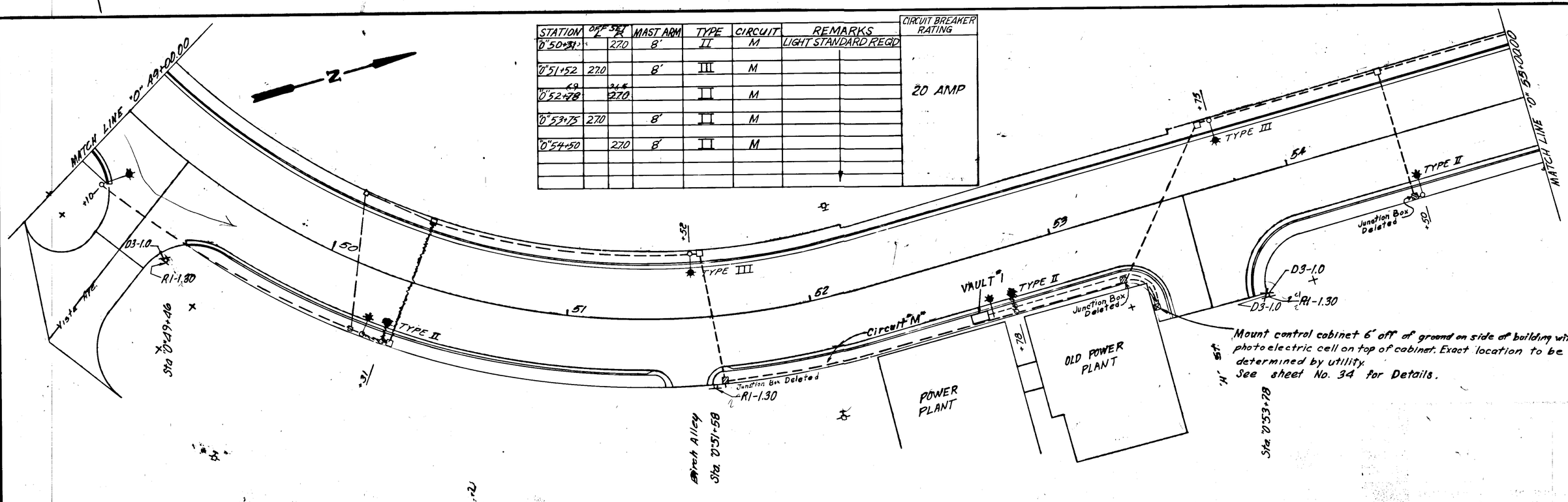
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	86	175

ILLUMINATION & SIGNING PLANS



STATION	OFF L	OFF R	MAST ARM	TYPE	CIRCUIT	REMARKS	CIRCUIT BREAKER RATING
26 "0"43+90		31.5	12'	III	K	ATTACH TO POWER POLE	10 AMP
27 "0"45+18		30.5	12'	II	L		10 AMP
28 "0"46+89		31.5	12'	II	L		
29 "0"47+37		33.5	10'	III	L		
30 "0"49+10		29.5	10'	III	M	LIGHT STANDARD REQ'D	20 AMP

STATION	JUNCTION BOX L	JUNCTION BOX R	TYPE
"0"49+12	28.5	DELETED	
"0"50+35	26.5	26.5	
"0"51+56	26.5		
"0"51+63	DELETED	26.5	
"0"53+24	DELETED	26.5	
"0"53+70	26.5		
"0"54+46	26.5	28.5	
"0"50+05	26.5	DELETED	

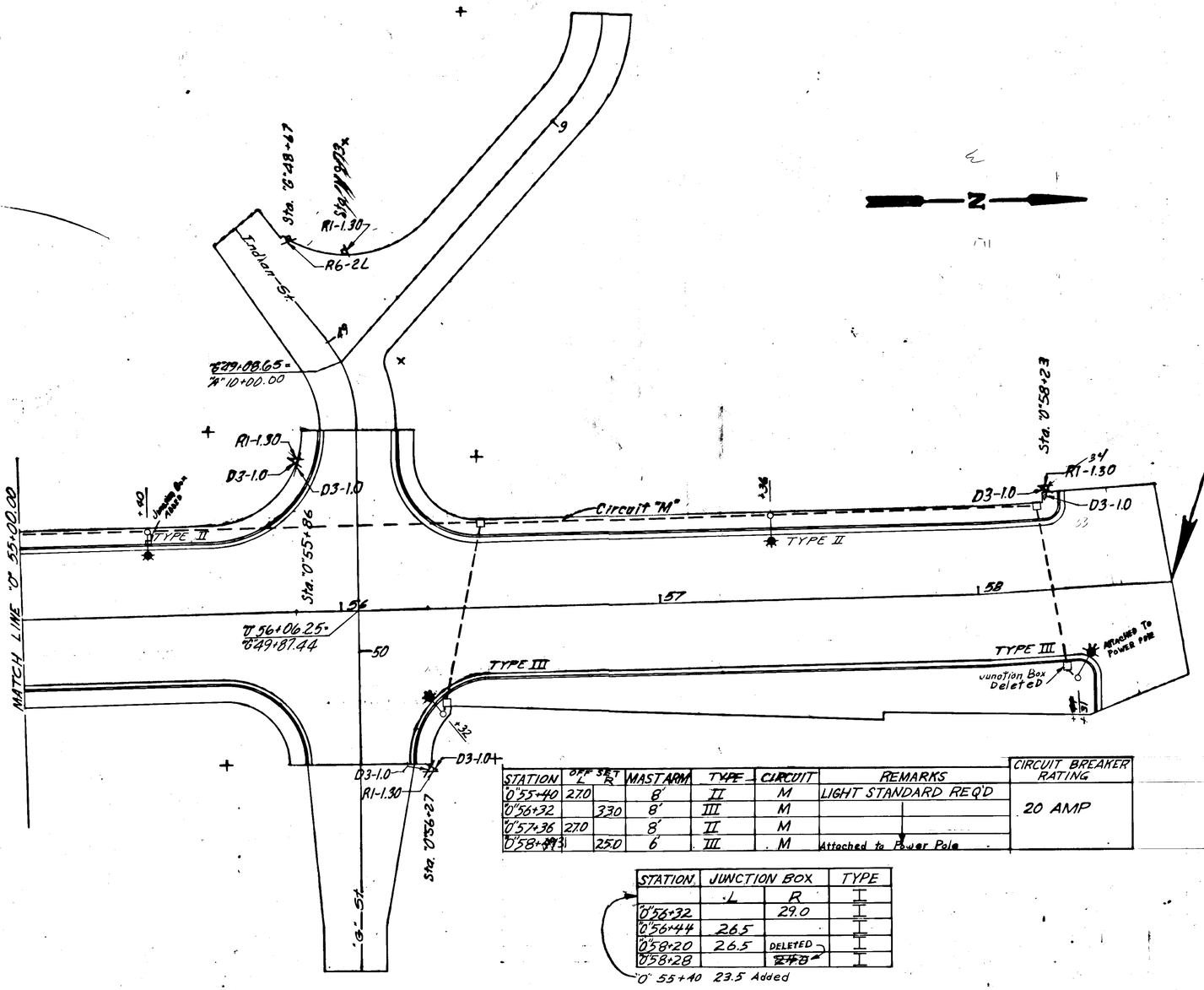


STATION	OFF L	OFF R	MAST ARM	TYPE	CIRCUIT	REMARKS	CIRCUIT BREAKER RATING
"0"50+31		27.0	8'	II	M	LIGHT STANDARD REQD	20 AMP
"0"51+52	27.0		8'	III	M		
"0"52+78		24.5 27.0		II	M		
"0"53+75	27.0		8'	II	M		
"0"54+50		27.0	8'	II	M		

Mount control cabinet 6' off of ground on side of building with photo electric cell on top of cabinet. Exact location to be determined by utility.
See sheet No. 34 for Details.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	197	87	175

ILLUMINATION & SIGNING PLANS



STATION	OFF SET L	OFF SET R	MAST ARM	TYPE	CIRCUIT	REMARKS	CIRCUIT BREAKER RATING
0'55+40	270		8'	II	M	LIGHT STANDARD REQ'D	20 AMP
0'56+32		330	8'	III	M		
0'57+36	270		8'	II	M		
0'58+~~93~~31		250	6'	III	M	Attached to Power Pole	

STATION	JUNCTION BOX L	JUNCTION BOX R	TYPE
0'56+32		29.0	I
0'56+44	26.5		I
0'58+20	26.5	DELETED	I
0'58+28		~~27.0~~	I

0' 55+40 23.5 Added

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	88	175

CITY OF PETERSBURG, ALASKA

PETERSBURG THROUGH-ROUTE, PHASE I
FERRY TERMINAL TO "F" STREET
WATER AND SEWER PLANS

ALASKA PROJECT
S-0937(10)

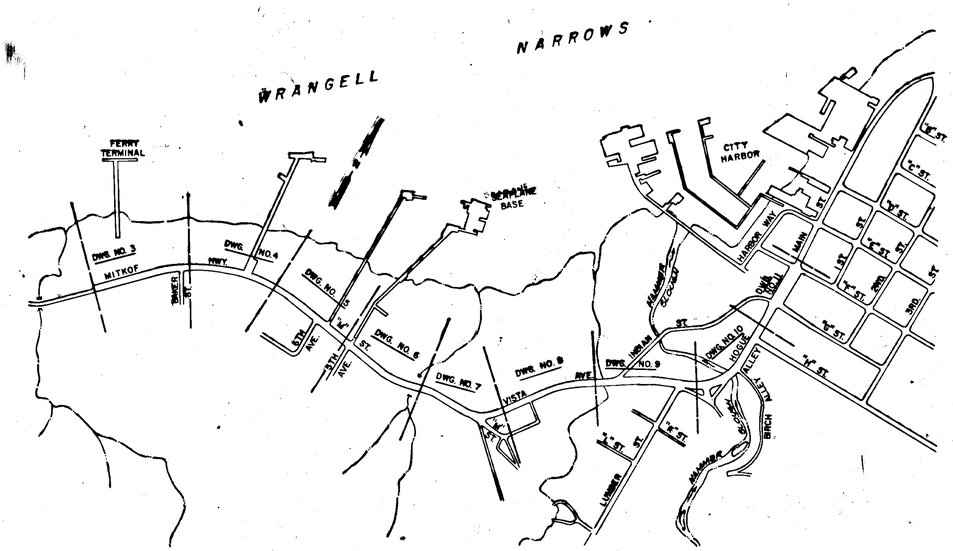
MAYOR
RICHARD KITO

OFFICIALS

HESDEN SCOUGAL	CITY MANAGER
L.B. JACOBSON	CITY ATTORNEY
KENNETH WELDE	DIRECTOR OF PUBLIC WORKS
JERRY VAN VLECK	CLERK/TREASURER

CITY COUNCIL

CARROLL CLAUSEN	W. GARY OINES
FRED HALTINER, JR.	TED SMITH
J.E. LONGWORTH	RALPH STRICKLAND



SCHEDULE OF DRAWINGS FOR CITY WATER

SHEET NO.	CONTENTS
1	GENERAL NOTES & STANDARD SYMBOLS
2	QUANTITIES
3	PLAN AND PROFILE
4	PLAN AND PROFILE
5	PLAN AND PROFILE
6	PLAN AND PROFILE
7	PLAN AND PROFILE
8	PLAN AND PROFILE
9	PLAN AND PROFILE
10	PLAN AND PROFILE
11	PLAN AND PROFILE
12	HAMMER SLOUGH CROSSING DETAILS
13	STANDARD DETAILS
14	STANDARD DETAILS

CH2M HILL
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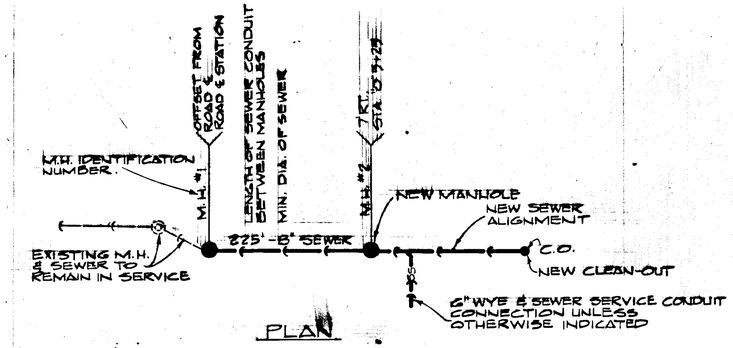
STATE	PROJECT	Year	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937-(10)	1973	89	175

LEGEND

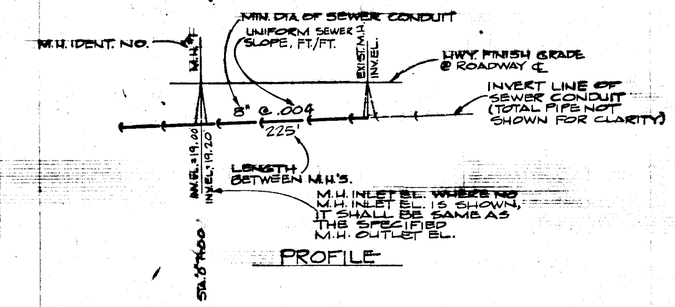
- PROPOSED HWY. ℄
- SEWER LINE
- SEWER SERVICE CONDUIT (SS)
- STORM SEWER (REFER TO HWY DRAINAGE PROFILES FOR CONST. DETS.)
- WATER MAIN CONDUIT
- WATER SERVICE PIPE (SIZE 3/4" UNLESS OTHERWISE SHOWN) (WS)
- REMOVE EXISTING FACILITY
- PERMIT LINE
- PROPERTY LINES
- EXISTING UNDERGROUND UTILITIES — SEWER, WATER, ELECTRICAL, TELEPHONE
- NEW GATE VALVE
- EXISTING GATE VALVE
- NEW FIRE HYDRANT
- EXISTING FIRE HYDRANT
- NEW CURB STOP & CURB BOX
- REDUCER (8" × 6")
- FLEXIBLE COUPLING
- THRUST BLOCKS & STANDARD WATER MAIN FITTINGS — THRUST BLOCKS, PLUG, TEE, 90° BEND

ABBREVIATIONS

A.C.P.	ASBESTOS CEMENT PIPE
APPROX.	APPROXIMATELY
ASS'Y	ASSEMBLY
℄	CENTERLINE
BRG.	BRIDGE
CL	CLASS
C.I.P.	CAST IRON PIPE
CO	CLEANOUT
Cu.	COPPER PIPE
CONC.	CONCRETE
CONN.	CONNECT (Connection)
DET	DETAIL
DIAPH.	DIAPHRAGM
D.I.	DUCTILE IRON PIPE
DIA	DIAMETER
DWG	DRAWING
EL.	ELEVATION
EXC.	EXCAVATION
EXIST.	EXISTING
F.C.	FLEXIBLE COUPLING
F.H.	FIRE HYDRANT
FIN.	FINISHED
FLG.	FLANGED
FT.	FEET
G.V.	GATE VALVE
HWY.	HIGHWAY
I.D.	INSIDE DIAMETER
IDENT.	IDENTIFICATION
INV.	INVERT
INT.	INTERSECTION
LT.	LEFT
MAT'L	MATERIAL
M.H.	MANHOLE
MAX.	MAXIMUM
MIN.	MINIMUM
M.J.	MECHANICAL JOINT
N	NORTH
NO.	NUMBER
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
P/L	PROPERTY LINE
P.V.C.	POLYVINYL CHLORIDE PIPE
RED.	REDUCER
REQ'D	REQUIRED
R/W	RIGHT-OF-WAY
RT.	RIGHT
STA	STATION
STD	STANDARD
SYM	SYMMETRICAL
TYP	TYPICAL
W.M.	WATER MAIN CONDUIT
W/	WITH
W.S.	WATER SERVICE PIPE
S.S.	SEWER SERVICE CONDUIT

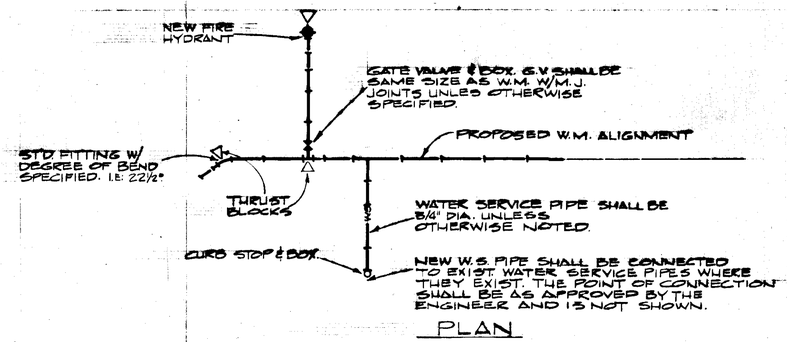


PLAN

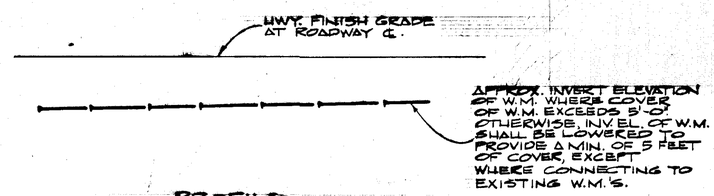


PROFILE

STANDARD NOTATION FOR SANITARY SEWER
N.T.S.



PLAN



PROFILE

STANDARD NOTATION FOR WATER LINES
N.T.S.

GENERAL NOTES

1. ALL NEW FIRE HYDRANT AND VALVE INSTALLATIONS SHALL BE MADE WITH NEW MATERIALS UNLESS OTHERWISE INDICATED.
2. ALL ABANDONED FIRE HYDRANTS SHALL BE REMOVED FROM THE JOB SITE AND DISPOSED OF BY THE CONTRACTOR.
3. WATER FOR FLUSHING & TESTING OF THE WATER SYSTEM WILL BE PROVIDED AT NO EXPENSE TO THE CONTRACTOR IF THE WATER IS USED DURING THE PERIODS OF BELOW AVERAGE DEMAND.
4. WHERE NEW SEWER SERVICE CONNECTIONS ARE SHOWN IMMEDIATELY ADJACENT TO EXISTING SEWER SERVICES TO BE ABANDON, THE ABANDONMENT OF THE EXISTING AND THE INSTALLATION OF THE NEW SHALL ONLY BE COMPLETED IF THE EXISTING FACILITIES ARE AFFECTED BY THE CONSTRUCTION OF THE ROADWAY.
5. EXCAVATION FOR ALL WATER AND SEWER CONDUITS AND APPURTENANCES SHALL NOT BE MADE UNTIL FINAL ROADWAY PRISM IS CONSTRUCTED TO FINAL SUBGRADE ELEVATION.
6. SEE ROAD PLANS FOR ROAD PLANS

STATE OF ALASKA — 49TH STATE — W. KIM ERICKSON No. 3415-E REGISTERED PROFESSIONAL ENGINEER

CH2M HILL — ALASKA — ANCHORAGE • JUNEAU

CITY OF PETERSBURG, ALASKA
PETERSBURG THRU-ROUTE
PHASE I
FERRY TERMINAL TO "F" ST.
UTILITIES
GEN. NOTES & STANDARD SYMBOLS

DES. W.K.E.	SHEET 1
DR. D.V.K.	OF
CK. WKE	DATE: 8-15-73
JN J3082.01	SCALE: AS SHOWN
DRAWING NO.	J3082.01-1

STATE	PROJECT	Year	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937-(10)	1973	99	175

CONC. THRUST BLOCKS & 8" PLUG

8"x8"x6" TEE W/M.J. x M.J. x FLG. JOINTS. 26' LT. OF STA. "0" 9+30.

6" G.V. W/FLG. x M.J. JOINTS

6" A.C. W.M.

EXISTING 6" W.M.

CONNECT NEW 6" W.M. TO EXIST. 6" W.M. WITH 6" TRANSITION FC.

6" 90° M.J. BEND

ABANDON EXIST. 6" W.M.

NEW 6" W.M.

NOTE: BEGIN PROJECT @ "0" 9+24

8"x8"x6" TEE W/M.J. x M.J. x FLG. JOINTS & 6" G.V. W/FLG. x M.J. JOINTS. TEE SHALL BE 26' LT. OF STA. "0" 11+78

STD. FIRE HYDRANT ASSEMBLY.

8" W.M.

INTAKOF

HIGHWAY

6" W.M.

PLUG

BAKER STREET

MATCH LINE - "0" 14+40

1" = 20'

EXISTING W.M.

FINISHED PROFILE GRADE

ABANDON

EXIST. 6" A.C.P.

8" W.M.

EXIST. 10" A.C.P.

INVE. 16.8±

INVE. 16.0±

STA. 0"11+78±

9+00 10+00 11+00 12+00 13+00 14+00

28 26½ 24 22½ 20 18½ 16 14

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STATE OF ALASKA 49TH W. KIM ERICKSON No. 3415-E REGISTERED PROFESSIONAL ENGINEER

CITY OF PETERSBURG, ALASKA
PETERSBURG THRU-ROUTE
PHASE I
FERRY TERMINAL TO "F" ST.
UTILITIES
PLAN & PROFILE

DES. WKE	SHEET 3
DR. D.V.K.	OF
CK. WKE	DATE: 8-15-73
JN J5082.01	SCALE: AS SHOWN
DRAWING NO. J5082.01-3	

STATE	PROJECT	Year	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937-(10)	1973	4	175

MATCH LINE - 0"14+40

MITKOF HIGHWAY

8" W.M.

RWJ

CONNECT TO EXISTING 1" W.S. WITH SERVICE UNION FITTING & INSTALL CURB STOP

20'-12" D.I. SEWER CONDUIT

PLUG

"M" STREET

Deleted
T-W.S. & CONNECT TO EXISTING 1" IRON PIPE

8" W.S. & CONNECT TO EXISTING 8" IRON PIPE

M.H. 19+20

PLUG

MATCH LINE - 0"20+00

1" = 20'

EXISTING M.H.

EXISTING M.H.

FINISHED PROFILE GRADE

ABANDON

EXIST. 6" A.C.P.

8" W.M.

EXIST. 10" A.C.P.

INVEL. = 15.54

INVEL. = 15.02

STA. 0"15+45.5

20'-12" D.I. SEWER CONDUIT.

PLUG END

INV.EL. = 14.50

INV.EL. = 14.40

INVEL. = 14.73

INVEL. = 14.63

STA. 0"17+48.5

EXIST. 8" A.C.P.

INVEL. IS E.

14+80 15+00 16+00 17+00 18+00 19+00 20+00

26 24 22 20 18 16 14

STATE OF ALASKA
49TH
W. KIM ERICKSON
No. 3415-E
REGISTERED PROFESSIONAL ENGINEER

CH2M HILL
ANCHORAGE · JUNEAU

CITY OF PETERSBURG, ALASKA
PETERSBURG TURU-ROUTE
PHASE I
FERRY TERMINAL TO "F" ST.
UTILITIES
PLAN & PROFILE

DES W.K.E.	SHEET 4
DR D.V.K.	OF
CK W.K.E	DATE: 8-15-73
JN J3082.01	SCALE: AS SHOWN
DRAWING NO. J3082.01-4	

STATE	PROJECT	Year	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937-(10)	1973	98	175

THRUST BLOCK
8" W.M.
8"x6"x8" FLG. TEE, 26' LT. OF STA. "0"21+65.
8" G.V. W/FLG. X.M.J. JOINTS
6" G.V. W/FLG. X.M.J. JOINTS
6" W.M.
N
AVENUE
8" W.M.
8" W.M.
CMW
7' RT. STA. "0"21+35
6" W.M.
45'-8" SEWER
New 8" Line
6" W.M.
MH 1+25
MATCH LINE ~ "0"20+00
ABANDON EXIST. TEE & CONNECT NEW 6" W.M. TO EXIST. W.M. WITH 6" TRANSITION FLEXIBLE COUPLING. CONNECT TO EXIST. W.M. OUTSIDE THE LIMITS OF MUCK EXCAVATION
SEVENTH
C/L W.M.
8" W.M.
SEWER
245'
8"
Sewer
8' Rt. Sta. 24+00
AVENUE
18' L.T. STA. "0"24+00
STD. FIRE HYDRANT ASSEMBLY, L.T. OF STA. "0"24+16.
2" W.S.
8" W.M.
CMW
275'
8" SEWER
STREET
MATCH LINE ~ "0"26+00
PLUG
SIXTH
C-2
EXIST MH
8" @ .007
27'
SEWER
DET. "A"
N.T.S.
1" = 20

26
24
22
20
18
16
14

FINISHED PROFILE GRADE
EXIST. 6" A.C.P.
ABANDON
EXIST. 8" CI.
C/W.M.
8" W.M.
ABANDON
8" W.M.
EXIST. 8" A.C.P.
8" @ .004
45'
ABANDON
8" @ .004
245'
EXIST. 8" A.C.P.
ABANDON
8" @ .004
275'
8" W.M.
INVEL. = 15.5 ± EXISTING MH STA. "0"21+05
INVEL. = 15.2 ± STA. "0"21+65
TIE TO EXIST. W.M.
MH EL. 15.9
STA "0"21+25
INVEL. = 15.0 ± STA. "0"21+55
TIE TO EXIST. W.M.
EXISTING MH STA. "0"24+00 INVEL. = 16.66'
SEE DET. "A" THIS DWG. FOR TIE BETWEEN NEW AND EXISTING M.H.'S.
M.H. STA "0"24+00 INVEL. = 16.66'

20+00
21+00
22+00
23+00
24+00
25+00
26+00

STATE OF ALASKA
49TH
W. KIM ERICKSON
No. 3415-E
REGISTERED PROFESSIONAL ENGINEER

CH2M HILL
ANCHORAGE • JUNEAU
ALASKA

CITY OF PETERSBURG, ALASKA
PETERSBURG THRU-ROUTE
PHASE I
FERRY TERMINAL TO "F" ST.
UTILITIES
PLAN & PROFILE

DES.	W.K.E.
DR.	D.V.K.
CK.	W.K.E.
RN.	J3082.01
SHEET	5
OF	
DATE:	8-15-73
SCALE:	AS SHOWN
DRAWING NO.	J3082.01-5

STATE	PROJECT	Year	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937-(10)	1973	93	175

MATCH LINE - "D" 26+00

FIFTH AVENUE

14" I.T. STA. "D" 26+85

6"x6"x6" TEE W/M.J.x.M.J.x.FLG. JOINTS. 26' Lt. OF STA. "D" 26+85

6" G.V. W/FLG.x.M.J. JOINTS.

8" W.S.

6" W.S.

6" W.M.

5'-0"

RW'J

8" W.M.

5.5

274'

"M"

New 8" Sewer Line

8" SEWER

5.5

28

STREET

S

5.5

5.5

5.5

29

FOURTH AVENUE

11" Rt. STA. "D" 29+52

8" W.M.

RW'J

260'

8" SEWER

New 8" Sewer Line

MATCH LINE - "D" 31+50

EXIST. F.H. SHALL BE LOWERED FOR CORRECT DEPTH OF BURY.

CONNECT NEW 6" W.M. TO EXIST. 6" W.M. WITH 6" TRANSITION F.C.

6" W.S.

6" ASBESTOS

FIFTH AVENUE

SPECIAL M.H.

8" W.S.

51

PLUG 1" W.S.

RELOCATE EXIST. FIRE HYDRANT TO 1'-0" BEHIND BACK EDGE OF SIDEWALK.

THIRD AVENUE

1" = 20'

N

28
26
24
22
20
18
16
14

FINISHED PROFILE GRADE

6" CONC. 8" W.M.

8" @ .004

274'

6" CONC.

EXIST. 18" C.M.P.

8" @ .004

260'

8" W.M.

INVEL. = 17.76'

INVEL. = 18.86'

11" RT. STA. "D" 29+52

26+00 27+00 28+00 29+00 30+00 31+00 +50

STATE OF ALASKA
49TH
W. KIM ERICKSON
No. 3415-E
REGISTERED PROFESSIONAL ENGINEER

CH2M HILL
ALASKA
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CITY OF PETERSBURG, ALASKA
PETERSBURG THRU-ROUTE
PHASE I
FERRY TERMINAL TO "F" ST.
UTILITIES
PLAN & PROFILE

DES. W.K.E.	SHEET 6
DR. B.V.K.	OF
CK. W.K.E.	DATE: 8-15-73
JN 15082.01	SCALE: AS SHOWN
DRAWING NO.	J5082.01-6

STATE	PROJECT	Year	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937-(10)	1973	94	175

N

MATCH LINE "0" 31+50

8" W.M.

6" G.V. W/FLG.X M.J. JOINTS

6" G.V. WITH FLG.X M.J. JOINTS.

8"x8"x6" FLG. TEE 25'± LT. OF STA. "0"35+20±

8" FLEXIBLE COUPLINGS

DETAIL "A" N.T.S.

22½° M.J. BEND 22.5'± LT. OF STA. "0"34+96±

22½° M.J. BEND 22.5'± LT. OF STA. "0"35+78±

C.O. 16 LT. OF STA. "0"36+55

MATCH LINE "0"37+00

VISTA AVENUE

8" W.M.

6" W.M.

6" M.J. TEE W/THRUST BLOCK & 6" 22½° M.J. BEND

CONNECT NEW W.M. TO EXISTING W.M. WITH 6" "TRANSITION" FLEXIBLE COUPLING

6" G.V. WITH M.J. & FLG. CONNECTIONS

FIRE HYDRANT WITH 6" FLG. CONNECTION

DETAIL "B" N.T.S.

12" C.M.P. S 12° W

8" Sewer Line

SEWER

(ABANDONED) 8" W.M.

181' STA "0"35+41

DETAIL "B" THIS DWG.

"M" STREET

332' 8" SEWER

188' 192'-8" SEWER

"M" STREET

6" W.M.

M.H.

INSTALL PLUG & THRUST BLOCK & ABANDON EXIST. W.M.

STD. FIRE HYDRANT ASS'Y.

SECOND AVENUE

INVEL-29.91 EXISTING

INVEL-29.26 EXISTING

1"=20'

NOTE: EXACT LOCATIONS OF EXISTING SEWER SERVICE CONNECTIONS ARE UNKNOWN.

C.O. (VISTA AVE.)

NOTE: EXISTING UTILITIES AND GROUND SURFACE SHOWN ARE FOR VISTA AVE. PROFILE.

FINISHED PROFILE GRADE

ABANDON

EXIST. 4" CONC. ST.

EXIST. 4" WOOD

6" W.M.

8" W.M.

8" @ .004

122 LFT (VISTA) 188'-8" ("M" ST.)

NOTE: SEWER PROFILE FOR "M" ST. & VISTA AVE. ARE BOTH SHOWN AS INDICATED

INVEL-26.86

8" @ .018 332'

EXIST. 8" CONC.

INVEL-25.89 INV. EL. 24.00

INVEL. STA "0"35+41

19.80 INVEL-19.90 INV. EL. 20.0

8" W.M.

8" W.M.

8" ST.

8" Ø SEWER

8" Ø SEWER

8" Ø SEWER

STATE	PROJECT	Year	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937-(10)	1973	95	175

MATCH LINE - STA 0+00

3' Rt. Sta 39+10 New Cleanout

8"W (ABANDONED)

STA 39+80 8" DI Valve & 6" Tee to be Contractor furnished (Not in Contract) No Payment made

STANDARD FIRE HYDRANT ASSEMBLY LT. OF STA. "O" 39+84.

VISTA AVENUE

NEW SEWER Connect to Existing, Sta. 39.79

8"W.M.

RAISED MANHOLE NO NEW CONSTRUCTION

1" = 20'

MATCH LINE - STA 0+00

NEW Cleanout

EXIST. 8" A.C.P. ABANDONED

18" C.M.P.

EXIST. 4" WOOD

ABANDON

8" W.M.

EXIST. 8" A.C.P.

Connect to Exist Sta 39+79

EXISTING M.H.

FINISHED PROFILE GRADE

EXIST. 4" WOOD

ABANDON

EXIST. 6" A.C.P.

8" W.M.

EXIST. 6" A.C.P.

INVERT = 23.41
INVERT = 23.15

STA. 0+40+25±

APPROX. LIMIT OF EXC. (SEE HIGHWAY DEPT. PLANS)

NOTE: WHERE EXISTING SEWER IS ABOVE ACTUAL LIMIT OF EXC. BETWEEN STA. 37+65 AND 40+25, CONTRACTOR WILL BE PAID FOR SEWER REMOVAL AND REPLACEMENT. SEWER REPLACEMENT SHALL BE IN FULL CONFORMANCE WITH THESE PLANS AND SPECIFICATIONS

34 32 30 28 26 24 22 20 18

37+00 38+00 39+00 40+00 41+00 42+00 43+00

CH2M HILL ALASKA
ANCHORAGE · JUNEAU

CITY OF PETERSBURG, ALASKA
PETERSBURG THRU-ROUTE
PHASE I
FERRY TERMINAL TO "F" ST.
UTILITIES
PLAN & PROFILE

DES	W.K.E.	SHEET	8
DR	D.V.K.	OF	
CK	W.K.E.	DATE	6-15-73
RN	J3082.01	SCALE	AS SHOWN
DRAWING NO.	J3082.01-8		

STATE OF ALASKA 49TH
W. KIM ERICKSON No. 3415-E
REGISTERED PROFESSIONAL ENGINEER

STATE	PROJECT	Year	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937-(10)	1973	96	175

6" G.V. W/FLG. & M.J. JOINTS

8"M.J.G.V.

8"X8"X6" WYE WITH M.J.XM.J.X FLG. JOINTS

EXISTING 6" A.C. W.M. CONNECT NEW W.M. TO EXIST. W/TRANSITION F.C.

8" ASBESTOS CEMENT PIPE EXISTING

INDIAN STREET

STD. FIRE HYDRANT ASSEMBLY LT. OF STA. "0"44+47.

SEE W.M. CROSSING DETAIL 4/12

SEE SEWER CROSSING DETAIL 3/12

VISTA AVENUE

MATCH LINE - "0"43+00

MATCH LINE - "0"49+00

10"X8" M.J. REDUCER LT. OF STA. "0"47+68±.

10"X10"X6" M.J.XM.J.XFLG. TEE LT. OF STA. "0"47+78± & 6" G.V. WITH FLG. CONNECTIONS.

6" 90° BEND WITH M.J. END CONNECTIONS.

CONNECT NEW W.M. TO EXIST. W/TRANSITION F.C.

LUMBER STREET

1" = 20'

NOTE: EXACT LOCATIONS OF EXISTING SEWER SERVICE CONNECTIONS ARE UNKNOWN

FINISHED PROFILE GRADE

EXISTING M.H.

HAMMER SLOUGH

ABANDON

EXIST. 6" A.C.P.

EXIST. 8" A.C.P.

8" W.M.

10" W.M.

10"X8" RED.

6" W.M.

SEE WATER & SEWER CROSSING DET'S, DWG. NO. 12.

EXIST. TIMBER BRIDGE (SEE HIGHWAY DEPT. PLANS)

STA. "0"44+61 INVEL. = 15.7±
INVEL. = 14.4±

STA. "0"48+44 INVEL. = 15.5±

43+00 44+00 45+00 46+00 47+00 48+00 49+00

STATE OF ALASKA 49TH
W. KIM ERICKSON No. 3415-E
REGISTERED PROFESSIONAL ENGINEER

CH2M HILL — ANCHORAGE · JUNEAU — ALASKA

CITY OF PETERSBURG, ALASKA
PETERSBURG THRU-ROUTE
PHASE I
FERRY TERMINAL TO "F" ST.
UTILITIES
PLAN & PROFILE

DES. W.K.E.	SHEET 9
DR. B.V.K.	OF
CK. W.K.E.	DATE 8-15-73
PN J3082.01	SCALE: AS SHOWN
DRAWING NO. J3082.01-9	

STATE	PROJECT	Year	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937-(10)	1973	97	175

HAMMER SLOUGH

MATCH LINE - "0"+47.00

VISTA AVENUE

8" W.M.

LUMP SUM BRIDGE CROSSING - SEE DWG. NO. 12.

22½° M.J. BEND. SEE DWG. NO. 12.

10" W.M.

22½° M.J. BEND. SEE DWG. NO. 12.

5"x2"F.F. 8" Sewer

8' Rt. Sta. 0" 52+10 Clean Out

REMOVE VALVE & INSTALL 6" PLUG IN EXIST. TEE.

BIRCH ALLEY

6"x6"x6" TEE WITH M.J. x M.J. x F.L.G. JOINTS 26' LT. OF STA. "0" 53+59

6" W.M.

4' RT. STA. "0" 53+78

ALLEY

10" SEWER

MATCH LINE - "0" 55+00

6" M.J. G.V. 26' LT. OF STA. "0" 53+40. 6"x10" REDUCER

6" G.V. W/ F.L.G. x M.J. JOINTS

HOGUE

ABANDON

111'-8" SEWER

CONSTRUCT M.H. AROUND EXIST. SERVICE CONNECTION & CONNECT EXIST. SERVICE CONNECTION TO NEW SEWER WHEN APPROVED BY THE ENGINEER.

CONNECT NEW 6" W.M. TO EXIST. 6" W.M. WITH 6" TRANSITION F.C.

ST. FIRE HYDRANT ASSEMBLY

6" W.M.

6" 120° I.W.M.

7½" STREET

7½" - 10" SEWER - 3.1%

CONSTRUCT NEW SEWER @ UNIFORM GRADE TO INTERCEPT EXISTING SEWER INVERT ELEVATION. CONNECT TO EXISTING SEWER AS APPROVED BY THE ENGINEER.

1"=20'

6" W.M.

8" Rt. Sta. 0" 52+10 Inv. El. 20.1

FINISHED PROFILE GRADE

EXIST. GROUND

EXIST. 6" A.C.P.

ABANDON

(SEE DWG. NO. 12 FOR DETAILS OF 10" W.M. BRIDGE CROSSING)

C.O.

EXIST. 6" C.I.P.

6" M.J. G.V.

6"x10" RED.

10" SEWER

INVEL. 21.40'

INVEL. 21.00

6" W.M.

INVE. 21.91' EXIST. M.H. INVEL. 21.21' STA. 0" 53+93

6" Rt. STA. 0" 53+28

49+00 50+00 51+00 52+00 53+00 54+00 55+00

STATE OF ALASKA 49TH W. KIM ERICKSON No. 3415-E REGISTERED PROFESSIONAL ENGINEER

CH2M HILL ANCHORAGE • JUNEAU

CITY OF PETERSBURG, ALASKA
PETERSBURG THRU-ROUTE
PHASE I
FERRY TERMINAL TO "F" ST.
UTILITIES
PLAN & PROFILE

DES W.K.E.	SHEET 10
DR B.V.K.	OF
CK W.K.E.	DATE: 8-15-73
RN J3082.01	SCALE: AS SHOWN
DRAWING NO.	J3082.01-10

STATE	PROJECT	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937-(10)	1973	98	175

MATCH LINE ~ 0+55+00

8" x 4" M.J. REDUCER

CONNECT EXIST. 4" WOOD TO NEW 4" W.M. W/ 4" TRANSITION F.C.

50'± Const. ℄ to ℄ Line

INV. EL. 17.4

NEW M.H.

INV. EL. 17.91

6" TEE & STD F.H. ASSEMBLY

8" STREET

INDIAN AVE. 86'-12"

5" RT. STA. 0+56+12

6" M.J. G.V.

5" HYD'T

6" W.M.

6"x6"x6" TEE 8"x8"

INV. EL. 17.6

1'W.S.

RW

1'W.S.

RW

1'W.S.

Plugged

CUT, REMOVE & REPLACE CONC. PAVEMENT AS AN INCIDENTAL ITEM OF CONSTRUCTION

Connection Made By City Contractor

8"W

MAIN STREET

8"W

S

W

238' 10" SEWER

10" SEWER

225'

10" SEWER

+9' 8" SEWER STUB

8"S

238' 10" SEWER

HOGUE 6" 90° M.J. BEND

CONN. TO EXIST. TEE (OR PIPE) & PLUG TEE BRANCH IF EXISTING

ALLEY

CONNECT W.M. TO EXIST. VALVE

ADJUST EXIST. VALVE BOXES

CONNECT SEWER TO EXIST. M.H. & RE-SHAPE M.H. FILLET TO FIT NEW SEWER.

8"x8"x6" M.J. TEE, 51'± RT. OF ℄

INSTALL FIRE HYDRANT 51' RT. OF STA. 0+55+81±

6" G.V. WITH FLG. x M.J. ENDS

TERMINATE NEW 8" W.M. & INSTALL PLUG 76'± RT. OF 0+55 ℄

8" STREET 16'-8"

8"W

12"W STREET

1" = 20'

EXISTING M.H.

FINISHED PROFILE GRADE

EXISTING M.H.

NOTE: FOR CONN. BETWEEN EXIST. & NEW M.H.'S, SEE DET. "A," THIS DWG.

10" @ .008

EXIST. 8" CONC.

238'

ABANDON

6" W.M.

EXIST. 6" C.I.P.

10" @ .004

ABANDON

225'

EXIST. 6" C.I.P.

EXIST. 8" CONC.

ABANDON

EXIST. 8" C.I.P.

ABANDON

6" W.M.

Outlet Elev 17.3

Invert Elev. 16.9

225' of 15" Sewer Conduit @ .004

EXIST. 24" C.M.P.

Outlet Elev 16.0

28' STUB

INV. EL. = 18.01

INV. EL. = 18.02

INV. EL. = 18.90

STA 0+34+05

STA 0+59+30

STA 0+59+38

INV. EL. = 13.2

STA 0+59+38

INV. EL. = 16.2

26

24

22

20

18

16

14

55+00

56+00

57+00

58+00

59+00

Inv. El. 18.2

Inv. El. 16.5

REPLACE 10" @ EXIST. GRADE ± 35'

15" @ .533 ± 9'±

End Plugged

Inv. El. 16.2

8" @ .005

18" @ .005

41' STUB

Inv. El. 16.2

DETAIL "A"
N.T.S.

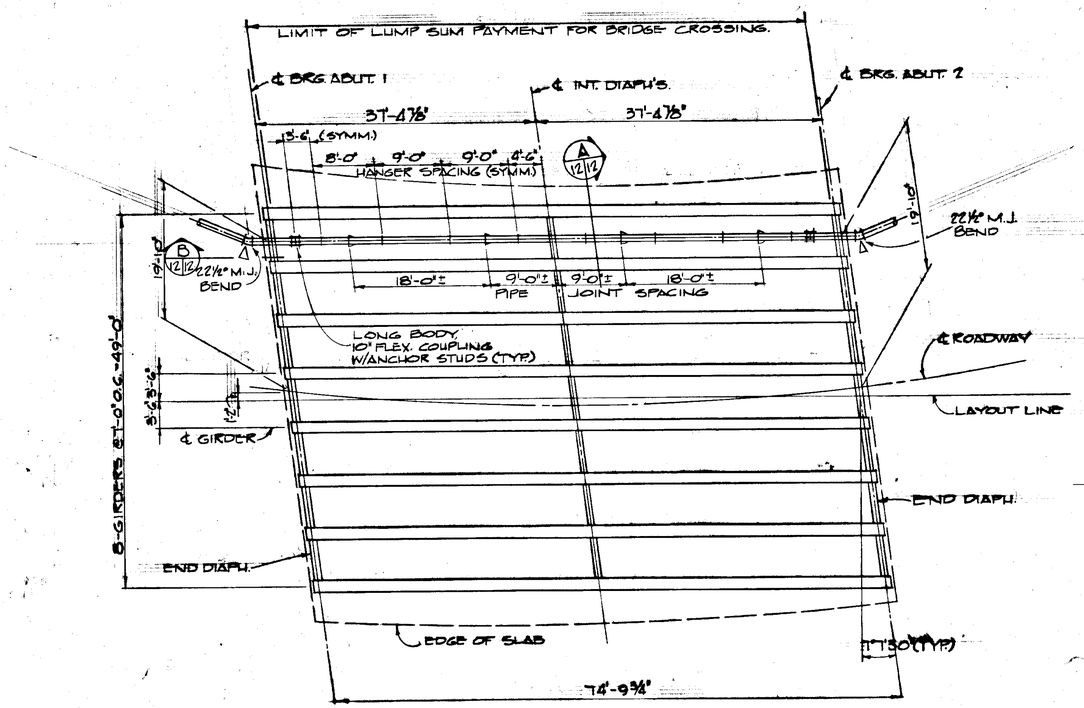
STATE OF ALASKA
49TH
W. KIM ERICKSON
No. 3415-E
REGISTERED PROFESSIONAL ENGINEER

CH2M HILL
ANCHORAGE · JUNEAU
ALASKA

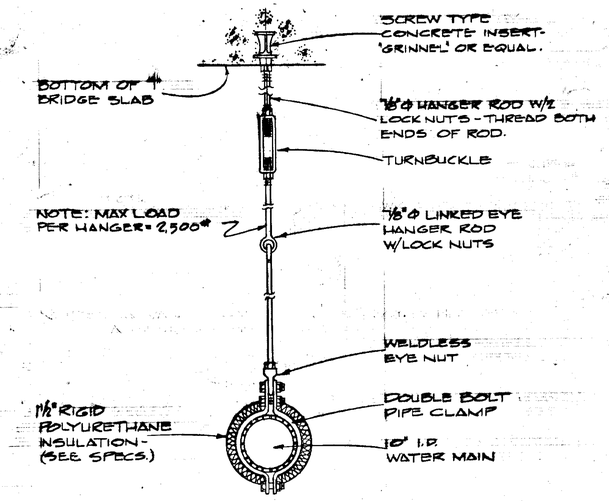
CITY OF PETERSBURG, ALASKA
PETERSBURG THRU-ROUTE
PHASE I
FERRY TERMINAL TO "F" ST.
UTILITIES
PLAN & PROFILE

DES W.K.E.	SHEET 11
DR D.V.K.	OF
CK W.K.E.	DATE: 8-15-75
RN J3082.01	SCALE: AS SHOWN
	DRAWING NO. J3082.01-11

STATE	PROJECT	Year	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937-(10)	1973	99	175

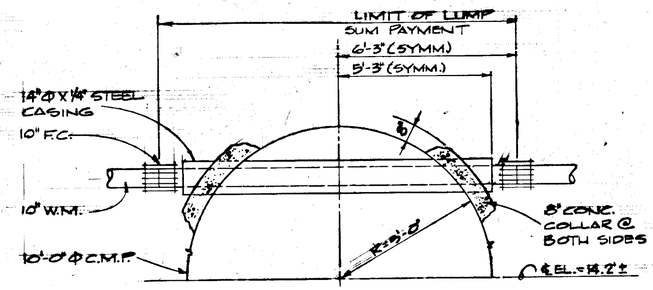


PLAN
1"=10'

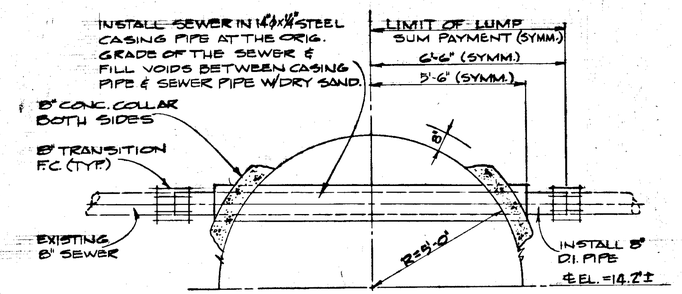


NOTE: GALVANIZE HANGER ASSEMBLY. 2 HANGER ASSEMBLIES PER SECTION OF PIPE, @ ¼ & ¾ POINTS) METHOD & MATL'S USED IN BANDING INSULATION TO PIPE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

DETAIL (1 / 12|12)
N.T.S.

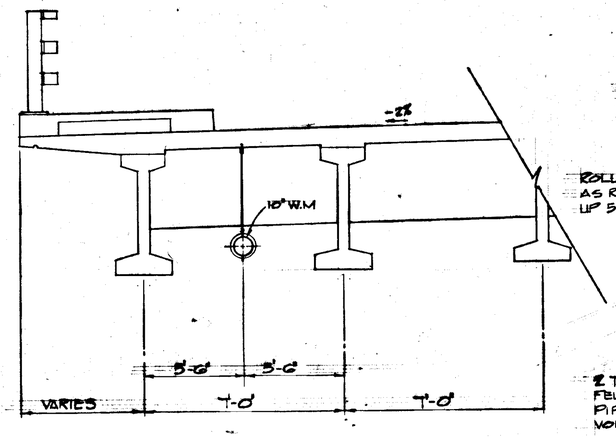


WATER C.S.P CROSSING DETAIL (2 / 9|12)
N.T.S.

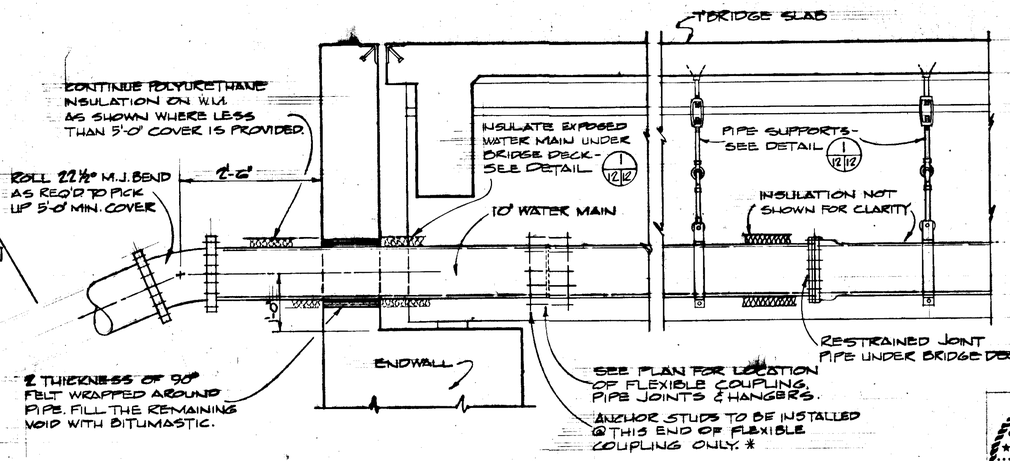


NOTE: LIMIT OF PAYMENT IS PERPENDICULAR TO AXIS OF 10'-0" ϕ C.S.P - ACTUAL LENGTH OF SEWER PIPE CROSSING IS IN EXCESS OF LIMIT OF PAYMENT DIMENSIONS DUE TO DIAGONAL CROSSING.

SEWER C.S.P CROSSING DETAIL (3 / 9|12)
N.T.S.



SECTION (A / 12|12)
3/8" = 1'-0"



SECTION (TYPICAL) (B / 12|12)
3/4" = 1'-0"

STATE OF ALASKA — 49TH — W. KIM ERICKSON No. 3415-E — REGISTERED PROFESSIONAL ENGINEER

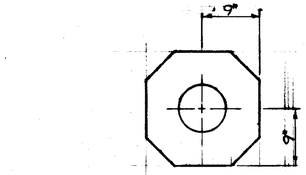
* REVISED 11-21-73 WK.

CH2M HILL — ALASKA — ANCHORAGE • JUNEAU

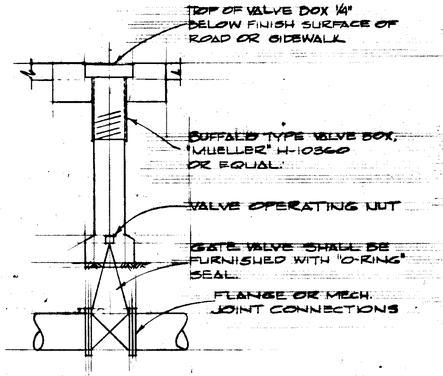
CITY OF PETERSBURG, ALASKA
PETERSBURG THRU-ROUTE
PHASE I
FERRY TERMINAL TO "F" ST.
UTILITIES
HAMMER SLOUGH CROSSING DET'S.

DES. W.K.E.	SHEET 12
DR. D.V.K.	OF
CK. W.K.E.	DATE: 8-15-73
PR. J3082.01	SCALE: AS SHOWN
DRAWING NO.	J3082.01-12

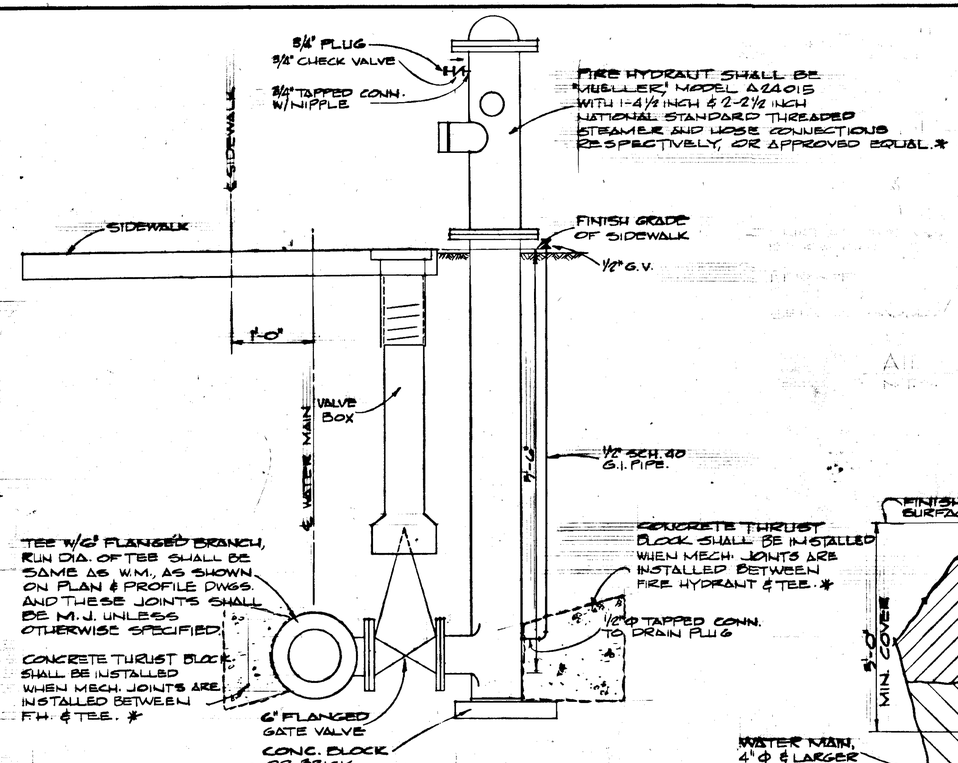
STATE	PROJECT	Year	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937-(10)	1973	188	175



VALVE BOX COVER IN PAVED STREET
N.T.S.

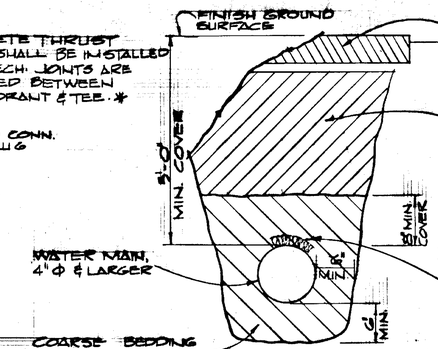


STANDARD WATER VALVE DETAIL *
N.T.S.



JOINTS ON TEE, VALVE AND FIRE HYDRANT SHALL BE AS SHOWN UNLESS OTHERWISE SPECIFIED ON PLAN & PROFILE SHEETS.

STANDARD FIRE HYDRANT DETAIL
N.T.S.

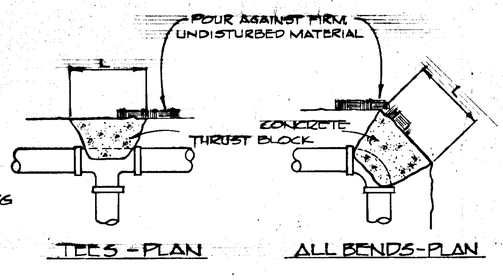


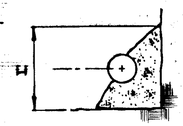
GROUND SURFACE RESTORATION SHALL BE AS SHOWN ON DWG. 14 TITLED "STANDARD DETAILS"

TRENCH BACKFILL MATERIALS AND DEGREE OF COMPACTION SHALL CONFORM TO DETAILS SHOWN ON DWG 14 TITLED "STANDARD DETAILS."

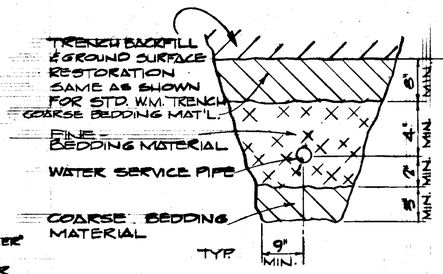
1/2" RIGID POLYURETHANE INSULATION SHALL BE PLACED AROUND WATER MAIN WHERE COVER IS LESS THAN 5'-0" TO FIN. GRADE. THIS WORK SHALL BE INCIDENTAL TO OTHER PAY ITEMS, AND NO MEASUREMENT OR PAYMENT WILL BE MADE FOR THIS WORK.

STANDARD WATER MAIN TRENCH DETAILS
N.T.S.





TYPICAL ALL FITTINGS

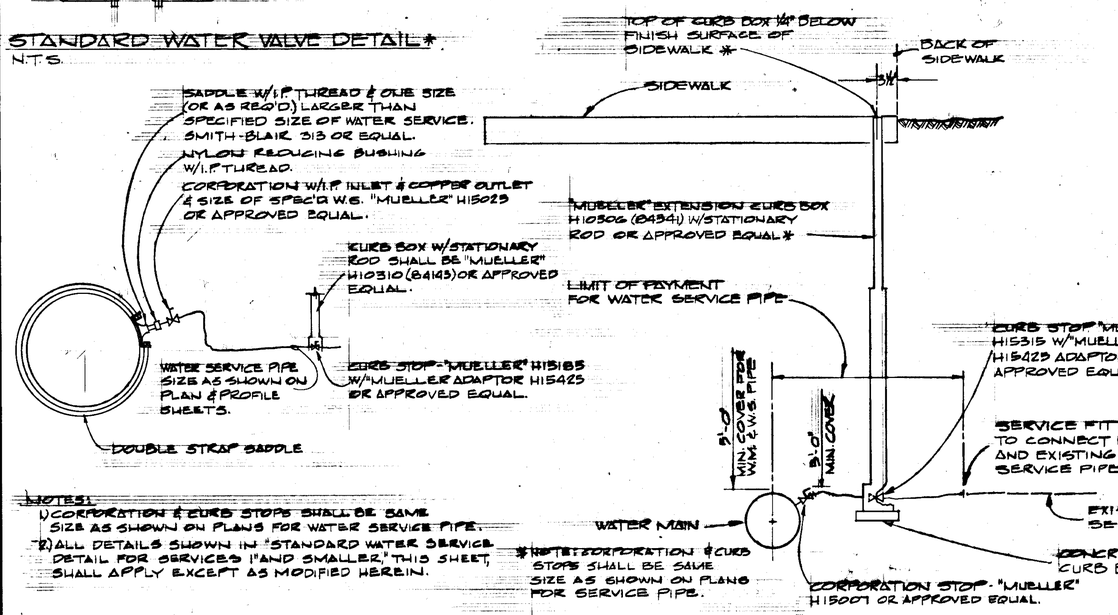


WATER SERVICE TRENCH DETAIL
N.T.S.

Pipe Dimension	12" - 24"			10"			8"			6"		
	A	L	H	A	L	H	A	L	H	A	L	H
3°-10°	2.0	2'-0"	1'-0"	1.5	1'-6"	1'-0"	1.0	1'-0"	1'-0"	1.0	1'-0"	1'-0"
11°-30°	6.0	3'-0"	2'-0"	4.0	2'-0"	2'-0"	2.5	1'-8"	1'-6"	2.0	2'-0"	1'-0"
31°-50°	9.5	3'-10"	2'-6"	6.5	2'-8"	2'-6"	4.0	2'-0"	2'-0"	2.5	1'-8"	1'-6"
51°-70°	13.0	4'-9"	2'-9"	9.0	3'-3"	2'-9"	6.0	3'-0"	2'-0"	3.0	2'-0"	1'-6"
71°-90°	16.0	5'-4"	3'-0"	11.0	3'-8"	3'-9"	7.0	2'-10"	2'-6"	4.0	2'-0"	2'-0"
91°-110	18.5	6'-2"	3'-0"	13.0	4'-4"	3'-0"	8.0	3'-3"	2'-6"	4.5	2'-3"	2'-0"

NOTES:

1. AREA OF THRUST BLOCKS ARE BASED ON 2,000 PSF LATERAL BEARING.
2. THRUST BLOCKS ARE REQUIRED AT ALL FITTINGS AND BENDS OF MORE THAN 3°
3. BEARING SURFACE OF THRUST BLOCK MUST BE NORMAL TO RESULTANT THRUST OF BEND AND BEAR ON FIRM UNDISTURBED MATERIAL.
4. DIMENSIONS OF THRUST BLOCKS FOR TEES SHALL BE AS PER TABLE FOR 71°-90° BEND BASED ON THE BRANCH PIPE SIZE.



NOTES:
1) CORPORATION & CURB STOPS SHALL BE SAME SIZE AS SHOWN ON PLANS FOR WATER SERVICE PIPE.
2) ALL DETAILS SHOWN IN "STANDARD WATER SERVICE DETAIL FOR SERVICES 1" AND SMALLER," THIS SHEET, SHALL APPLY EXCEPT AS MODIFIED HEREIN.

* NOTE: CORPORATION & CURB STOPS SHALL BE SAME SIZE AS SHOWN ON PLANS FOR SERVICE PIPE.

STANDARD WATER SERVICE CONNECTION DETAIL FOR SERVICES LARGER THAN 1-INCH *
N.T.S.

STANDARD WATER SERVICE CONNECTION DETAIL FOR SERVICES 1" AND SMALLER *
N.T.S.

* REVISED, 11-21-73 DVK

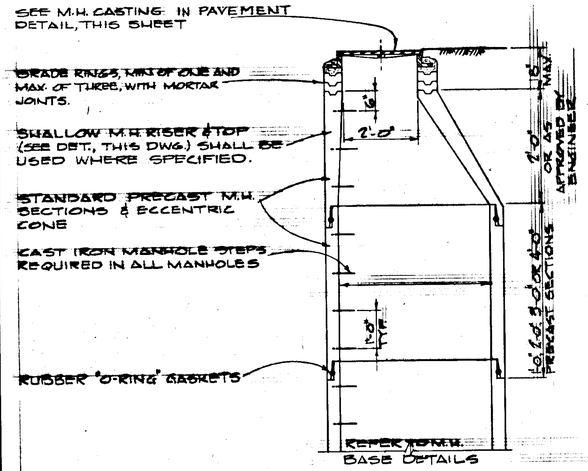
STATE OF ALASKA 49TH — W. KIM ERICKSON No. 3415-E — REGISTERED PROFESSIONAL ENGINEER

CH2M HILL — ANCHORAGE · JUNEAU — ALASKA

CITY OF PETERSBURG, ALASKA
PETERSBURG THRU-ROUTE
PHASE I
FERRY TERMINAL TO "F" ST.
UTILITIES
STANDARD DETAILS

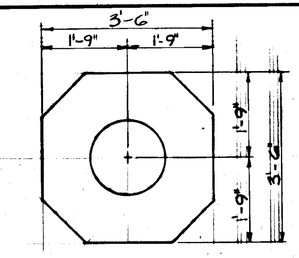
DES. W.K.E.	SHEET 13
DR. D.V.K.	OF
CK. W.K.E.	DATE: 8-15-73
RN J82.01	SCALE: AS SHOWN
DRAWING NO.	J82.01-13

STATE	PROJECT	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937-(10)	1973	901	175

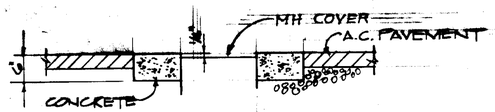


STANDARD MANHOLE RISER

SCALE: 1/2" = 1'-0"



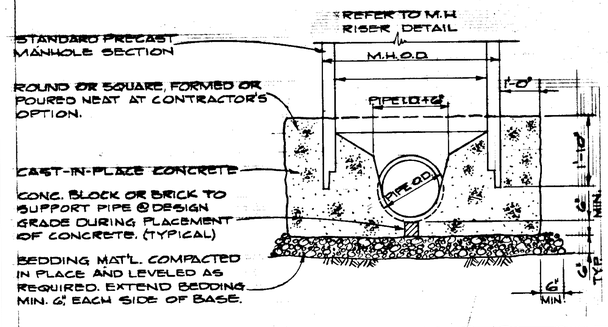
PLAN



SECTION

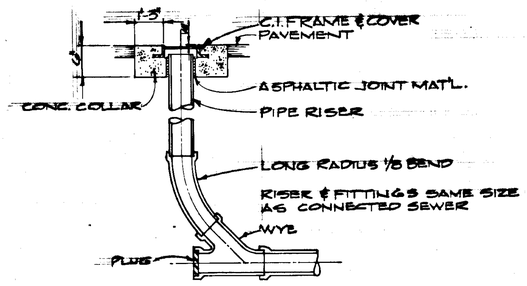
M.H. CASTING IN PAVEMENT

N.T.S.



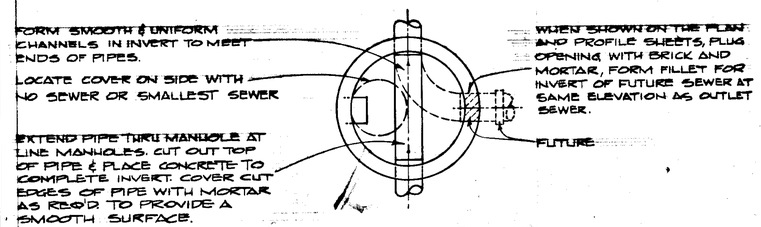
STANDARD MANHOLE BASE

SCALE: 1/2" = 1'-0"



CLEANOUT DETAIL

N.T.S.



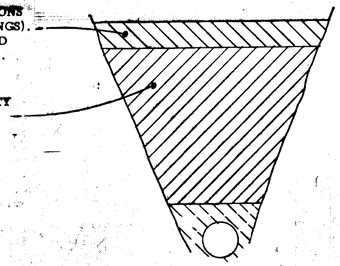
STANDARD FILLET

N.T.S.

STANDARD MANHOLE DETAILS

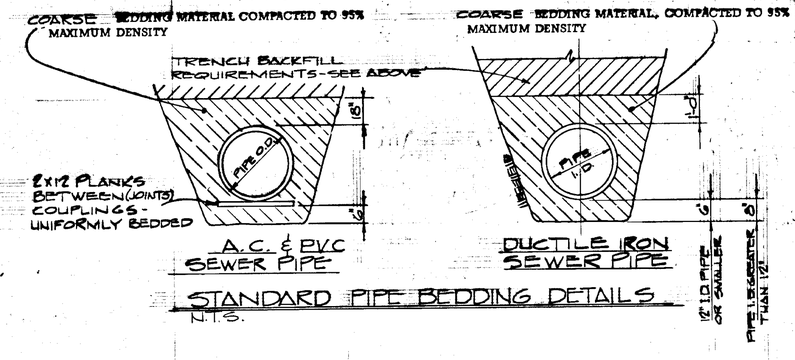
SURFACE COURSES SHALL BE AS SHOWN ON TYPICAL SECTIONS OF ROADWAY IMPROVEMENTS (SEE HIGHWAY DEPT. DRAWINGS). WHERE NO SURFACE COURSES ARE SPECIFIED, THE GROUND SURFACE SHALL BE RESTORED TO ITS ORIGINAL CONDITION.

APPROVED UNCLASSIFIED EXCAVATION OR BORROW PLACED AND COMPACTED IN 8" LIFTS TO 95% OF MAXIMUM DENSITY UNLESS OTHERWISE APPROVED BY THE ENGINEER, OR AS SPECIFIED IN SPECIFICATION SECTIONS 203-3.02, 3.03, 3.04 and 3.05.



STANDARD TRENCH BACKFILL DETAILS

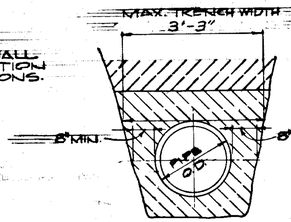
N.T.S.



STANDARD PIPE BEDDING DETAILS

N.T.S.

NOTE:
BEDDING MATERIALS SHALL BE AS SPECIFIED IN SECTION 205 OF THE SPECIFICATIONS.



TRENCH WIDTH DETAILS

N.T.S.

STANDARD TRENCH DETAILS

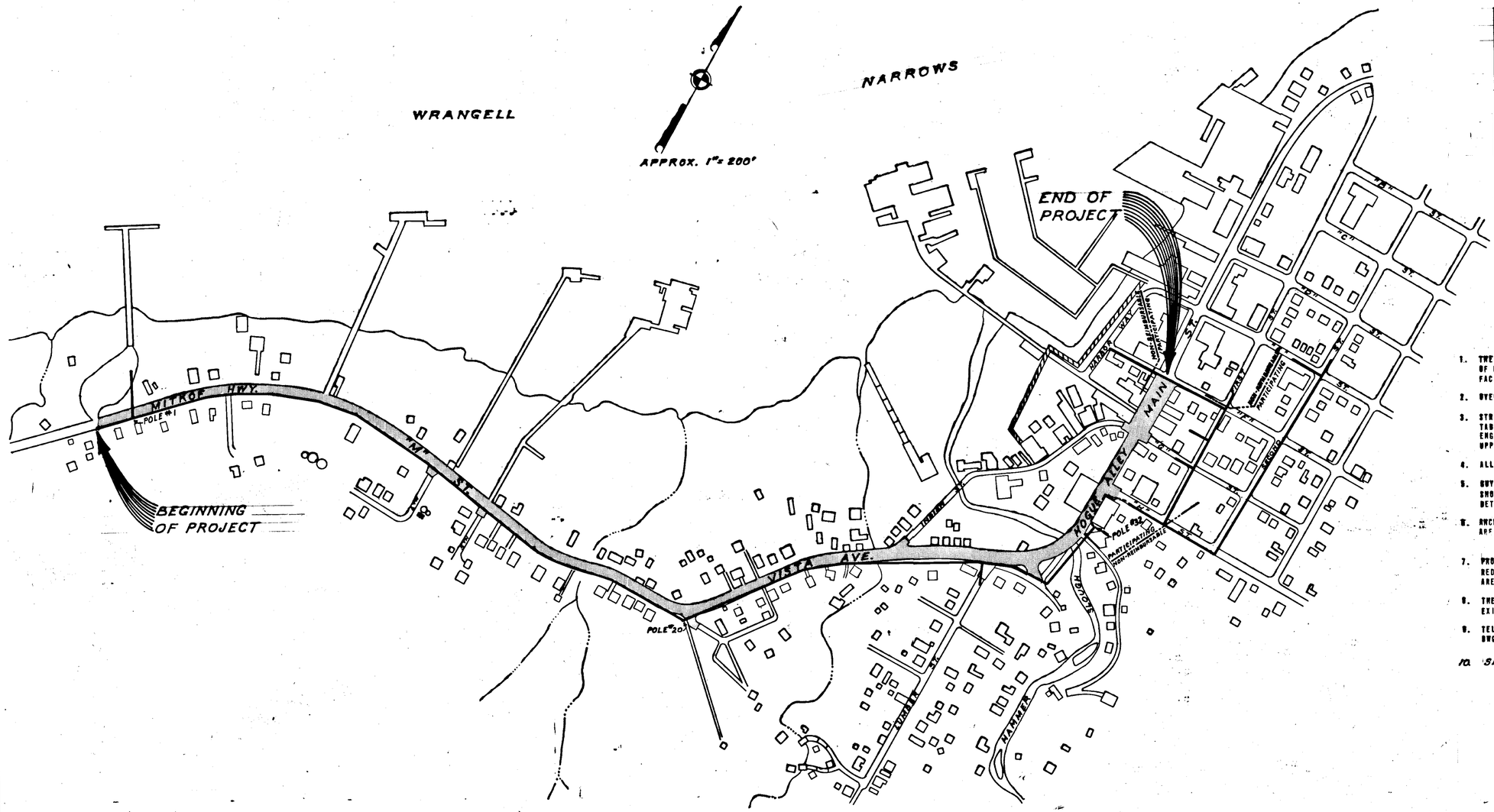
STATE OF ALASKA
49TH
W. KIM ERICKSON
No. 3415-E
REGISTERED PROFESSIONAL ENGINEER

CH2M HILL
ALASKA
ANCHORAGE · JUNEAU

CITY OF PETERSBURG, ALASKA
PETERSBURG THRU-ROUTE
PHASE I
FERRY TERMINAL TO "F" ST.
UTILITIES
STANDARD DETAILS

DES	W.R.E.	SHEET	14
DR	D.V.K.	OF	
CK	W.K.E.	DATE:	8-15-73
RN	J82.01	SCALE:	AS SHOWN
DRAWING NO.	J82.01-14		

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	102	175



RELOCATED POWER LINE

INDEX OF SHEETS - POWER		
SHEET NO. ALASKA DEPT. OF HWYS.	SHEET NO. CH2M	TITLE
	1	PROJECT MAP & DRAWING INDEX
	2 - 15	POLE LINE RELOCATION
	16	LAYOUT - VAULTS NO. 1 AND NO. 2
	17	POLE BRACE DETAILS - POLE NO. 32
	18	SPECIAL POLE TOP ASSEMBLIES

NOTES

1. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY ON THE SCHEDULING OF RETIREMENT OF EXISTING FACILITIES AND INSTALLATION OF NEW FACILITIES TO KEEP INTERRUPTION OF SERVICE AT A MINIMUM.
2. OVERHEAD DISTRIBUTION LINES SHALL BE AERIAL SPACER CABLE CONSTRUCTION.
3. STRING MESSENGER AND CONDUCTORS IN ACCORDANCE WITH SAG AND TENSION TABLES TO BE FURNISHED BY THE MANUFACTURER AND APPROVED BY THE ENGINEER. THE UNDERBUILD CIRCUITS SHALL BE SAGGED TO MATCH THE UPPER CIRCUIT, WHERE PRACTICABLE.
4. ALL INSULATORS SHALL BE GRAY.
5. GUY LEAD DISTANCES SHALL BE MEASURED LEVEL WITH THE BASE OF THE POLE. SHORTEN OR LENGTHEN GUY TO ADJUST FOR DIFFERENCES IN ELEVATION BETWEEN ANCHOR AND BASE OF POLE.
6. ANCHORS INDICATED ARE FOR CLASS 6 SOIL. WHERE OTHER SOIL CONDITIONS ARE ENCOUNTERED SELECTION OF PROPER ANCHOR IS OUTLINED IN SPECIFICATIONS.
7. PROVIDE FIBER GLASS GUY LINKS FOR EXTRA INSULATION AT POINTS OF REDUCED CLEARANCE BETWEEN GUY AND CONDUCTOR WHETHER OR NOT THEY ARE SHOWN ON THE DRAWINGS OR STAKING SHEETS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE HE CAUSES TO EXISTING UNDERGROUND INSTALLATIONS.
9. TELEPHONE LINES SUPPORTED ON THE POWER POLES SHALL BE AS SHOWN ON DWG. C7743-1, SHEETS 1 THROUGH 14
10. SEE ROAD PLANS FOR ROAD PLANS.

LEGEND

- RELOCATED POWER LINES
- HIGHWAY PROJECT

REGISTERED PROFESSIONAL ENGINEER — ALASKA — Samuel A. Lewis — NOV. 16, 1972 — SAMUEL A. LEWIS

STATE OF ALASKA — 49TH — 1867 1959 73 — No. 7179-E — REGISTERED PROFESSIONAL ENGINEER

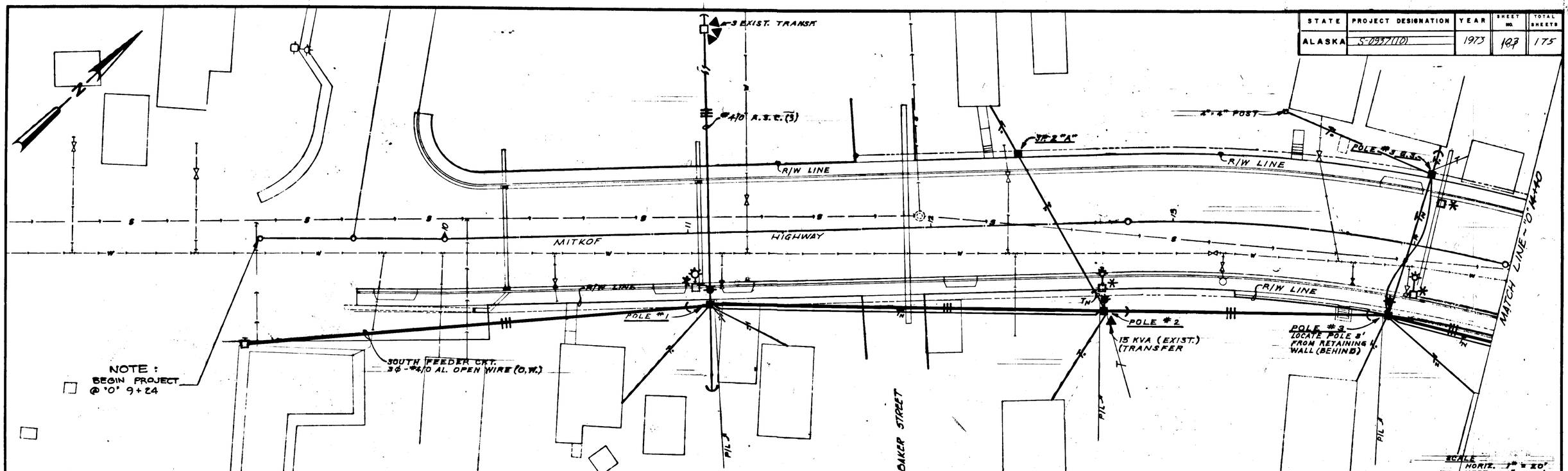
CH2M HILL — ENGINEERS PLANNERS ECONOMISTS

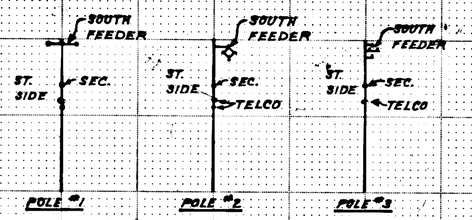
CORNELL HOWLAND HAYES & MERRYFIELD

CITY OF PETERSBURG
PETERSBURG, ALASKA
PETERSBURG THRU ROUTE - PHASE I
ALASKA DEPT. OF HWYS. PROJ. S-0937(10)
POWER PROJECT MAP AND DRAWING INDEX

DES. SAL	SHEET 1		
DR. RRB	OF 18		
CK. ALH	DATE FEB. 1973		
RN C7699.1	SCALE: AS SHOWN		
DRAWING NO. C 7699-1			

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	10	175





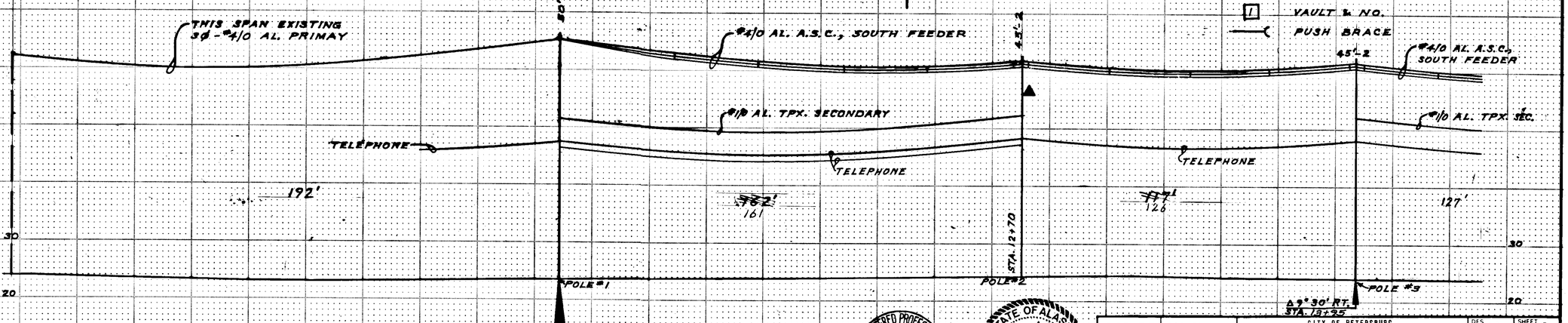
LOOKING NORTHEAST
N. T. S.

NOTES:

1. STATIONING SHOWN ON POLE LINE PROFILE IS FOR CENTER LINE OF HIGHWAY.
2. SEE SHEET 1 FOR NOTES.

LEGEND (SHT. 2 TO 15)

ASC	AERIAL SPACER CABLE
TPX	TRIPLEX
OW	OPEN WIRE
SEC.	SECONDARY
TELCO	TELEPHONE COMPANY
T_o	EXISTING TRIPLEX (TRANSFERED)
T_N	NEW TRIPLEX
	STREET LIGHT (EXIST. & RETIRED)
	STREET LIGHT (NEW) [BY OTHERS]
	INDICATES NUMBER OF PHASES (3Ø)
	NEW POLE & LINE
	EXISTING POLE — REUSED
	EXISTING POLE — RETIRED
	UNDERGROUND CONDUIT W/ CABLE AS NOTED
	TRIPLEX [T_o - EXISTING TRIPLEX; T_N - NEW TRIPLEX]
	OVERHEAD GUY
	DOWN GUY & ANCHOR (LENGTH N.T.S.)
	TRANSFORMER
	VAULT & NO.
	PUSH BRACE



REGISTERED PROFESSIONAL ENGINEER — OREGON — NOV. 15, 1967 — SAMUEL A. LEWIS

STATE OF ALASKA — 49TH — No. 1119-E — REGISTERED PROFESSIONAL ENGINEER

CH2M HILL — ENGINEERS PLANNERS ECONOMISTS

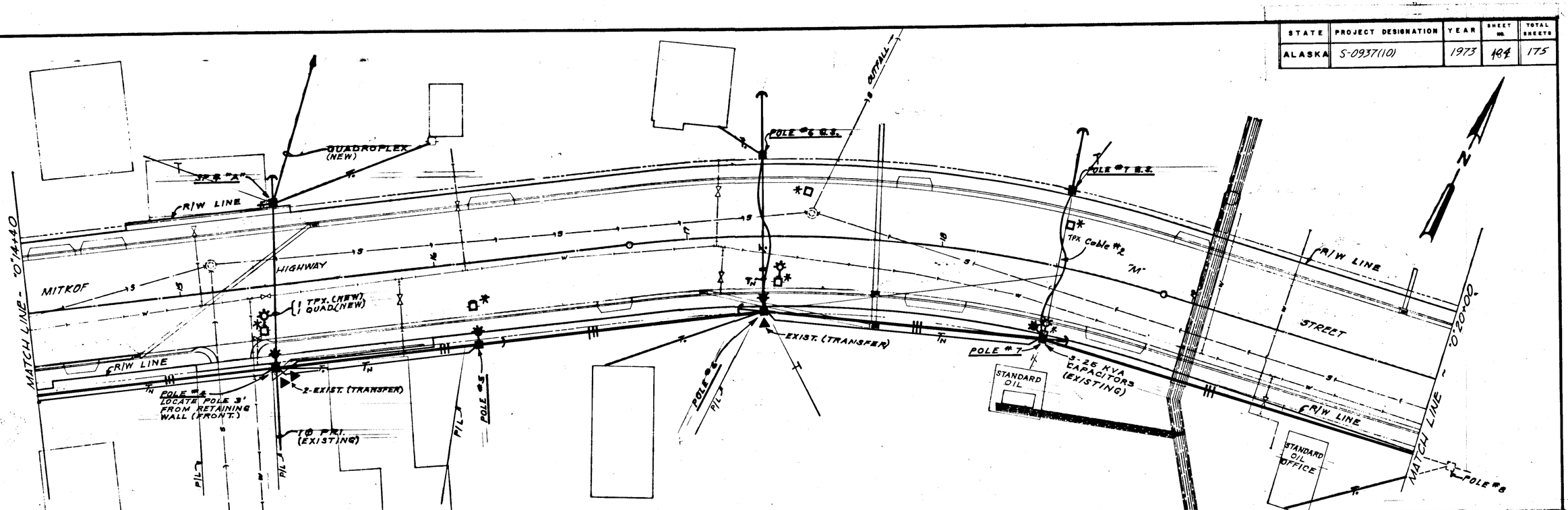
CORNELL HOWLAND HAYES & MERRYFIELD

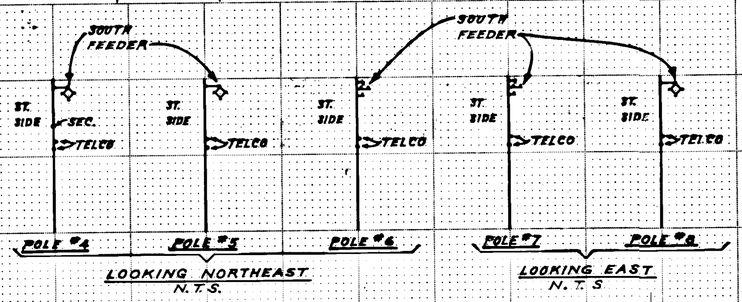
CITY OF PETERSBURG
PETERSBURG, ALASKA
PETERSBURG THRU ROUTE - PHASE I
ALASKA DEPT. OF HWYS. PROJ. S-0937(10)

POWER LINE RELOCATION

DES. SAL	SHEET 2		
DR. RRB	OF 15		
CK. ALH	DATE FEB. 1973		
RN. C7699.1	SCALE AS SHOWN		
DRAWING NO. C 7699-1			

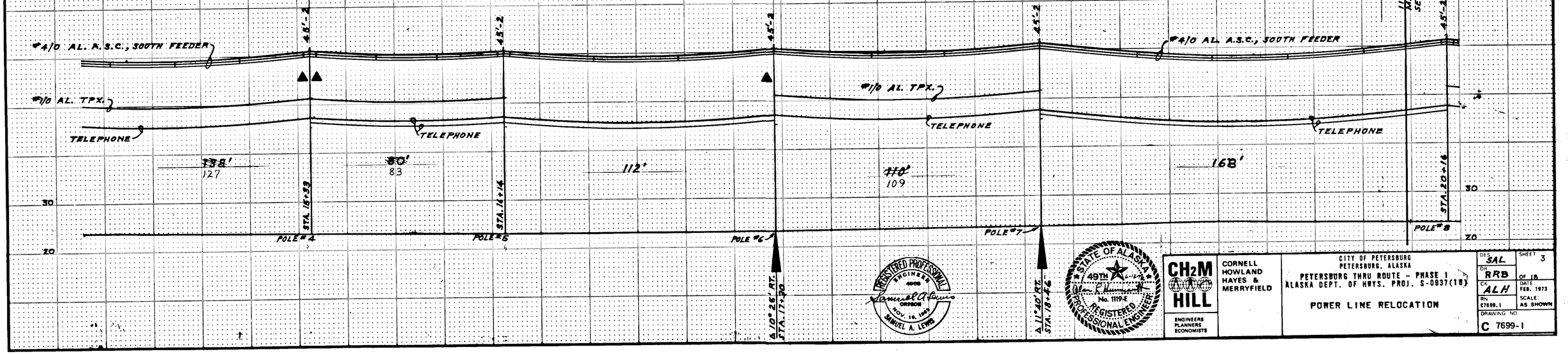
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	184	175





SCALE
HORIZ. 1" = 20'
VERT. 1" = 10'

NOTES:
1. STATIONING SHOWN ON POLE LINE PROFILE IS FOR CENTER LINE OF HIGHWAY.
2. SEE SHEET 2 FOR LEGEND
3. SEE SHEET 1 FOR NOTES



REGISTERED PROFESSIONAL ENGINEER 4008 OREGON NOV. 18, 1969 SAMUEL A. LEWIS

STATE OF ALASKA 49TH STATE No. 1119-E REGISTERED PROFESSIONAL ENGINEER

CH2M HILL — ENGINEERS PLANNERS ECONOMISTS

CORNELL HOWLAND HAYES & MERRYFIELD

CITY OF PETERSBURG
PETERSBURG, ALASKA
PETERSBURG THRU ROUTE - PHASE I
ALASKA DEPT. OF HWYS. PROJ. S-0937(10)

POWER LINE RELOCATION

DES.	SAL
DR.	RRB
CK.	ALH
RN	E7898.1
DRAWING NO.	C 7699-1
SHEET	3
OF	18
DATE	FEB. 1973
SCALE	AS SHOWN

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	195 183	175

N

AVENUE

R/W LINE

POLE #7 E.S.

SP 10 "A"

AVENUE

R/W LINE

SP 12 "A"

"M" STREET

MATCH LINE - "B" 20+00

MATCH LINE - "B" 26+00

POLE #8

POLE #9

POLE #10

POLE #11

POLE #12

R/W LINE

R/W LINE

R/W LINE

UNION OIL

7.5 KVA

5 KVA (EXISTING)

7.5 KVA

5 KVA (EXISTING)

SEVENTH

SIXTH

P/L

P/L

P/L

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	106	175

MATCH LINE - 0+26+00

FIFTH AVENUE

SP #13 "A"

1Ø PRI. (EXISTING)

1/0 Quad TPX

R/W LINE

SP #14 "A"

"M" STREET

1/0 TPX Cable

POLE #13

POLE #14

7.5 (EXIST.)

P/L & R/W

P/L

51

FOURTH AVENUE

EXISTING (TRANSFER)

POLE #15

$807

POLE #16

THIRD AVENUE

MATCH LINE - 0+56+50

N

SCALE
HORIZ. 1" = 20'
VERT. 1" = 10'

NOTES

1. STATIONINGS SHOWN ON POLE LINE PROFILE IS FOR CENTER LINE OF HIGHWAY
2. SEE SHEET 2 FOR LEGEND
3. SEE SHEET 1 FOR NOTES

SOUTH FEEDER

ST. SIDE TELCO

SEC.

POLE #13 | POLE #14 | POLE #15 | POLE #16

LOOKING EAST
N.T.S.

45'-2

#4/0 AL. A.S.C., SOUTH FEEDER

#1/0 AL. TPX.

#1/0 AL. TPX. SEC. (EXIST.)

TELEPHONE

~~155'~~ 158'

~~115'~~ 150'

125'

~~129'~~ 125'

30

20

STA. 25+67.5

POLE #13

POLE #14

POLE #15

POLE #16

Δ 2° 50' LT.
STA. 27+16

Δ 12° 28' LT.
STA. 29+36

Δ 6° 30' LT.
STA. 30+55

NO.	DATE	REVISION	BY	APD.
1		WIRE "TS" ADDED GUY (POLE 13) DELETED GUY (POLE 14)	RRB	ALH

REGISTERED PROFESSIONAL ENGINEER 4966 OREGON NOV. 16, 1965 SAMUEL A. LEWIS

STATE OF ALASKA 49TH No. 1119-E REGISTERED PROFESSIONAL ENGINEER

CH2M HILL
ENGINEERS PLANNERS ECONOMISTS

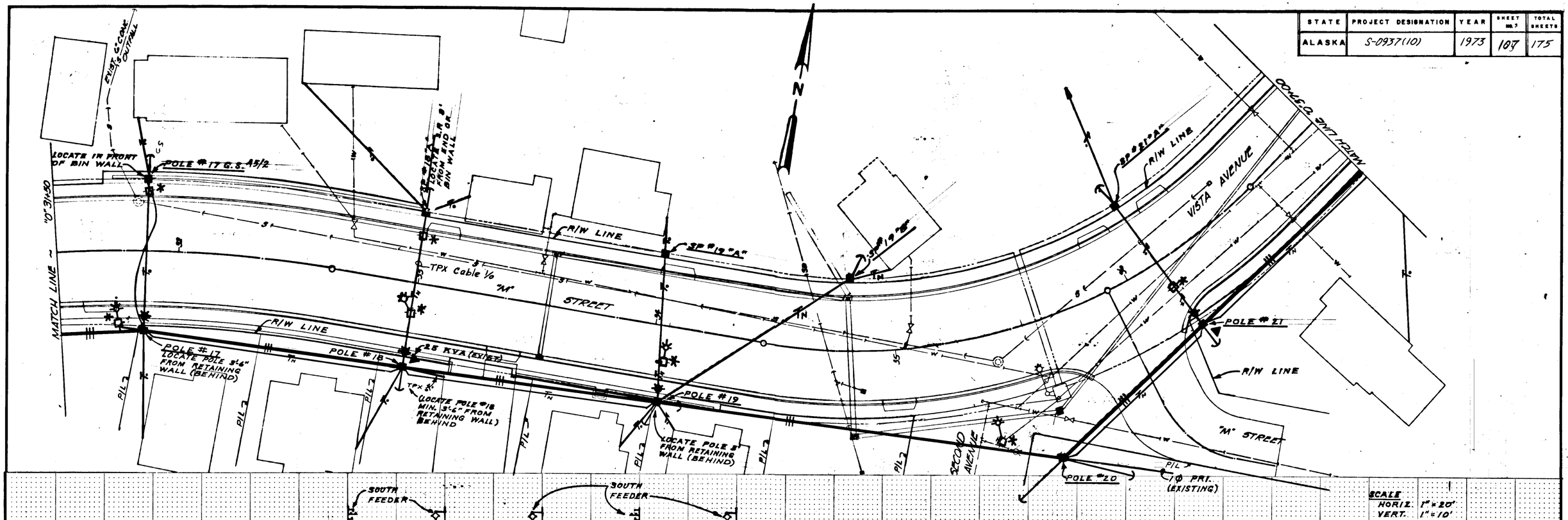
CORNELL HOWLAND HAYES & MERRYFIELD

CITY OF PETERSBURG
PETERSBURG, ALASKA
PETERSBURG THRU ROUTE - PHASE I
ALASKA DEPT. OF HWYS. PROJ. S-0937(10)

POWER LINE RELOCATION

DES.	SAL
DR.	RRB
CK.	ALH
RN.	C7698.1
DRAWING NO.	C 7699-1
SHEET	5 OF 18
DATE	FEB. 1973
SCALE	AS SHOWN

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	107	175



SCALE
HORIZ. 1" = 20'
VERT. 1" = 10'

NOTES:
1. STATIONING SHOWN ON POLE LINE PROFILE IS FOR CENTER LINE OF HIGHWAY
2. SEE SHEET 2 FOR LEGEND
3. SEE SHEET 1 FOR NOTES

REGISTERED PROFESSIONAL ENGINEER — OREGON — SAMUEL A. LEWIS — NOV. 16, 1973

STATE OF ALASKA — 49TH — No. 1119-E — REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REVISION	BY	APD.
1		ADDED GUY & ANC. POLE 19	RRB	ALH

CH2M HILL — ENGINEERS PLANNERS ECONOMISTS

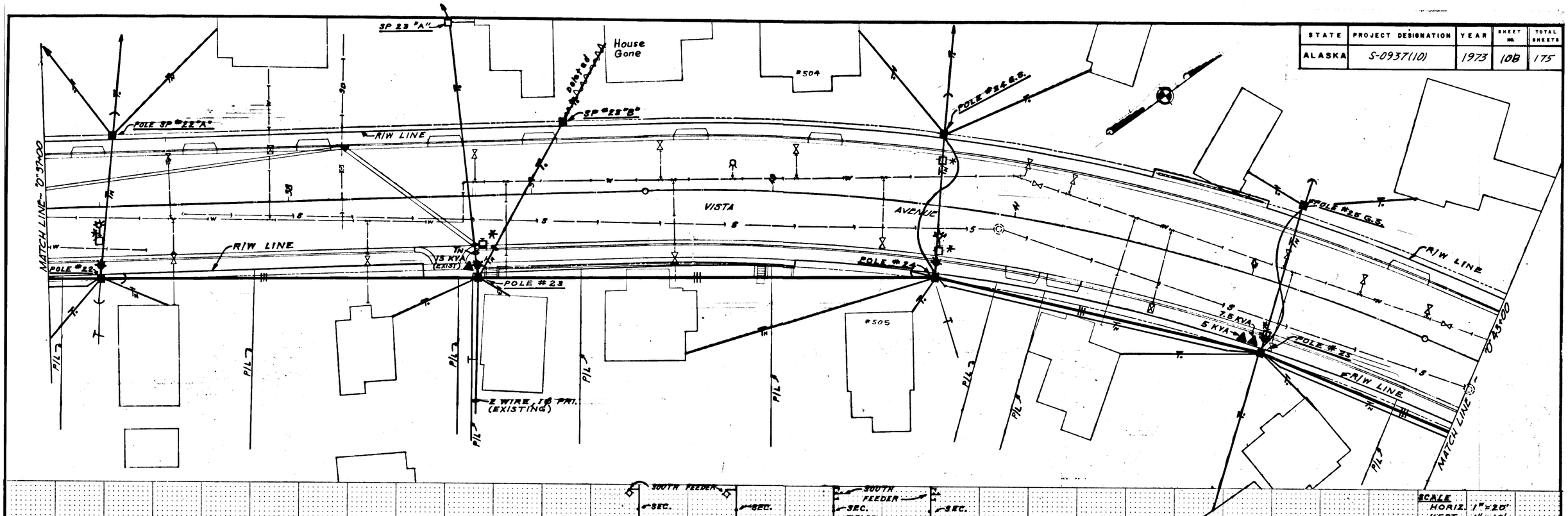
CORNELL HOWLAND HAYES & MERRYFIELD

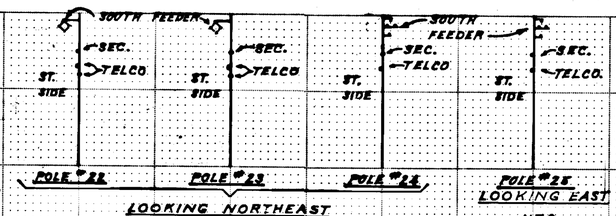
CITY OF PETERSBURG
PETERSBURG, ALASKA
PETERSBURG THRU ROUTE - PHASE I
ALASKA DEPT. OF HWYS. PROJ. S-0937(10)

POWER LINE RELOCATION

DES.	SAL
DR.	RRB
CK.	ALH
RN.	C7698.1
SHEET	6 OF 18
DATE	FEB. 1973
SCALE	AS SHOWN
DRAWING NO.	C 7699-1

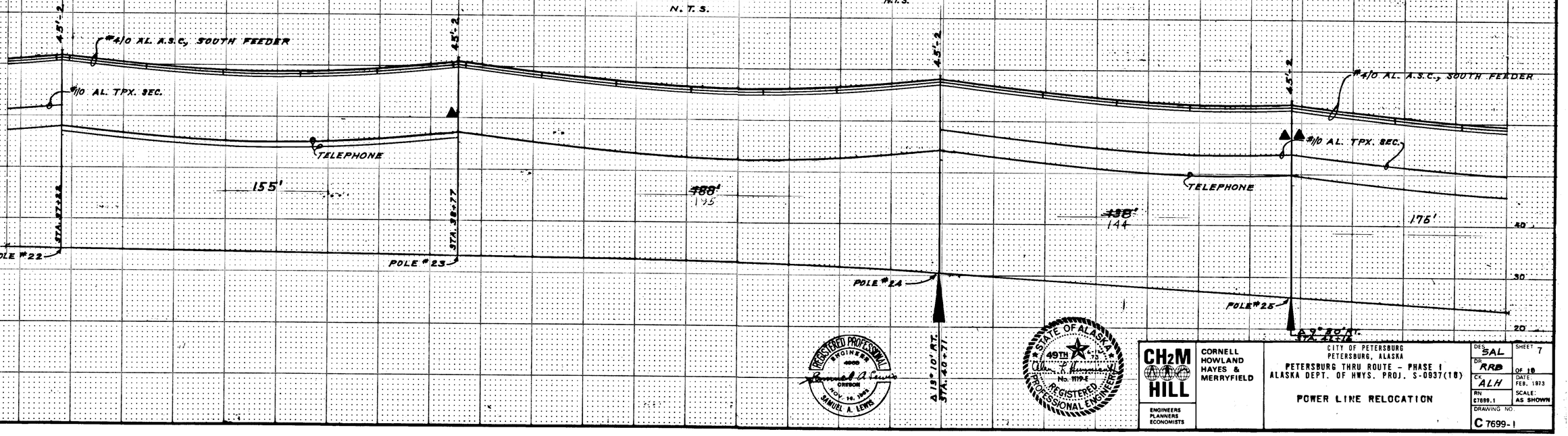
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	108	175





SCALE
HORIZ. 1"=20'
VERT. 1"=10'

NOTES
1. STATIONING SHOWN ON POLE LINE PROFILE IS FOR CENTER LINE OF HIGHWAY
2. SEE SHEET 2 FOR LEGEND
3. SEE SHEET 1 FOR NOTES



REGISTERED PROFESSIONAL ENGINEER 4000 OREGON NOV. 30, 1965 SAMUEL A. LEWIS

STATE OF ALASKA 49TH No. 1179-E REGISTERED PROFESSIONAL ENGINEER

CH2M HILL
ENGINEERS PLANNERS ECONOMISTS

CORNELL HOWLAND HAYES & MERRYFIELD

CITY OF PETERSBURG
PETERSBURG, ALASKA
PETERSBURG THRU ROUTE - PHASE I
ALASKA DEPT. OF HWYS. PROJ. S-0937(10)

POWER LINE RELOCATION

DES. SAL	SHEET 7
DR. RRB	OF 18
CK. ALH	DATE: FEB. 1973
RN 67889.1	SCALE: AS SHOWN
DRAWING NO. C 7699-1	

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	109	175

INDIAN ST. SP 1 "A"

INDIAN ST. POLE NO. 1 Pole Added A5/2

EXISTING SHOP 110 Quad

INDIAN STREET

INDIAN R/W LINE

SP 28 "A"

POLE #29 E.E.

R/W LINE

MATCH LINE - 24+00

MATCH LINE - 00+00

VISTA AVENUE

R/W LINE

POLE #26

POLE #27

POLE #28

POLE #29

POLE #30

LUMBER STREET

EXIST. LUMBER ST. FEEDER 3Ø - 336.4 MCM (ASC)

EXIST. P.

POLE #29R1 (EXIST.)

EXIST. LUMBER ST. FEEDER 3Ø - #4/0 CU. (O.W.)

POLE #29R2 (EXIST.)

SCALE
HORIZ. 1" = 20'
VERT. 1" = 10'

NOTES
1. STATIONING SHOWN ON POLE LINE PROFILE IS FOR CENTER LINE OF HIGHWAY.
2. SEE SHEET 2 FOR LEGEND.
3. SEE SHEET 1 FOR NOTES

LOOKING NORTHEAST
N.T.S.

SOUTH FEEDER — ST. SIDE — SEC. — TELCO

SOUTH FEEDER — ST. SIDE — TELCO

SOUTH FEEDER — LUMBER ST. CKT. — ST. SIDE — TELCO

SOUTH FEEDER — LUMBER ST. CKT. — ST. SIDE — TELCO

#4/0 AL. A.S.C.

#1/0 AL. TPX. SEC.

TELEPHONE

#4/0 AL. A.S.C., SOUTH FEEDER

336.4 MCM AL. A.S.C., LUMBER ST. CKT.

#1/0 TPX. SEC.

TELEPHONE

TELEPHONE

~~174'~~ 175

~~127'~~ 129

~~130'~~ 138

~~88'~~ 78

~~185'~~ 164

STA. 43+90

STA. 46+49

STA. 48+92

POLE #26

POLE #27

POLE #28

POLE #29

POLE #30

Δ 2° 20' RT.
STA. 43+78

Δ 9° 5' RT.
STA. 47+37

REGISTERED PROFESSIONAL ENGINEER — OREGON — 4005 — Samuel A. Lewis — NOV. 10, 1972 — SAMUEL A. LEWIS

STATE OF ALASKA — 49TH — REGISTERED PROFESSIONAL ENGINEER — No. 1119-E

CH2M HILL — ENGINEERS PLANNERS ECONOMISTS

CORNELL HOWLAND HAYES & MERRYFIELD

CITY OF PETERSBURG
PETERSBURG, ALASKA
PETERSBURG THRU ROUTE - PHASE I
ALASKA DEPT. OF HWYS. PROJ. S-0937(10)

POWER LINE RELOCATION

DES. SAL	SHEET 8
DR. RRB	OF 18
CK. ALH	DATE FEB. 1973
RN. C7699.1	SCALE AS SHOWN
DRAWING NO. C 7699-1	

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	110	175

HAMMER SLOUGH

MUNICIPAL BUILDING

MATCH LINE "F" (1+02)

MATCH LINE - 0+55+00

"0" 49+00

POLE #30

MATCH LINE

REPEAT

VISTA AVENUE

16N TPX

REDUCED TENSION

NEW 25 KVA

POLE #32LI

MUNICIPAL CKT.

2-5"C.

VAULT #1 SEE SHT. 16 FOR DETAILS

4" CONDUIT

STREET LIGHT CONDUITS, STUB AND CAP

HOGUE

ALLEY

4" STREET

5-4" Conduit

OLD POWER HOUSE

EXISTING POWER HOUSE

2-4" Conduit

1-5" Conduit

Deleted VAULT #2 SEE SHT. 17 FOR DETAILS

EXISTING CONDUITS

To Pole #2

Added Pole Crossarms

BIRCH ALLEY

POLE #32

SOUTH FEEDER, 3Ø #4/0 ALUM, ASC. (TOP CKT.)
LUMBER ST. FEEDER 3Ø 336.4 MCM ALUM. ASC. (BOTTOM CKT.)

POLE #31 LI

POLE #31

Pole #31 RI

STA. SERVICE TRANSFORMERS

EMERGENCY GENERATOR 350 KW

NEW POWER PLANT BUILDING NO. 2

SCALE
HORIZ. 1"=20'
VERT. 1"=10'

SOUTH FEEDER
LUMBER ST.
TELCO
ST. SIDE

POLE #31

SOUTH FEEDER
LUMBER ST.
TELCO
ST. SIDE

POLE #32

LOOKING NORTH
N.T.S.

#4/0 AL. ASC.

#4/0 AL. A.S.C., SOUTH FEEDER

336.4 MCM AL. A.S.C., LUMBER ST. CKT.

TELEPHONE

5'-8"

30'-1

127'

254'
265

SEE POLE DETAILS SHEET 17

STA. 52+00

30

20

SEE DETAIL ASSEMBLY #P1

POLE #31

5' Pole Extension Added

POLE #32

5' Pole Extention Added

A 57° 10' LT
STA. 49+95

NOTES
1. STATIONINGS SHOWN ON POLE LINE PROFILE IS FOR CENTER LINE OF HIGHWAY
2. SEE SHEET 2 FOR LEGEND
3. SEE SHEET 1 FOR NOTES

NO.	DATE	REVISION	BY	APD.
1	JUNE '73	ADDED NOTE POLE 30 CHG'D POLE 31 TO CLASS 2	RRB	ALH

REGISTERED PROFESSIONAL ENGINEER 4908 OREGON NOV. 16, 1965 SAMUEL A. LEWIS

STATE OF ALASKA 49TH No. 1119-E REGISTERED PROFESSIONAL ENGINEERS

CH2M HILL
ENGINEERS PLANNERS ECONOMISTS

CORNELL HOWLAND HAYES & MERRYFIELD

CITY OF PETERSBURG
PETERSBURG, ALASKA
PETERSBURG THRU ROUTE - PHASE I
ALASKA DEPT. OF HWYS. PROJ. S-0937(10)

POWER LINE RELOCATION

DES. SAL	SHEET 9		
DR. RRB	OF 18		
CK. ALH	DATE: FEB. 1973		
RN. 67698.1	SCALE: AS SHOWN		
DRAWING NO. C 7699-1			

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	111	175

MATCH LINE "D" (STA. "A" 0+86)

MATCH LINE "A" (STA. "B" 0+63)

MATCH LINE "F" (STA. "H" 1+02)

ALLEY

HOGUE

"H" STREET

FIRST STREET

SECOND STREET

FOR PROFILE SEE SHT. 15

EXIST. U.G. SERVICE TO FEDERAL BLDG.

STA. "H" 2+69

STA. "H" 3+75

SP H5 "A"

Deleted POWER VAULT #2 SEE SHT. 14 FOR DETAILS

To Vault #1

3-4"C

5-4"C

EXIST.

POLE #H2

POLE #H3 (EXIST.)

Added Pole Crossarm

NORTH CKT. #2 (NEW) HOSPITAL CKT. (NEW)

NORTH CKT. #1 (EXIST.) TO BE TRANSFERED (A.S.C. - #1/0 AL.)
MAIN ST. CKT. (NEW A.S.C. - #4/0 AL.)
COLD STORAGE CKT. (NEW A.S.C. - #4/0 AL.)
INDIAN ST. CKT. (NEW A.S.C. - #4/0 AL.)

COLD STORAGE CKT. (NEW)
MAIN ST. CKT. (NEW)
INDIAN ST. CKT. (NEW)

POLE #H4

NORTH CKT. #1 (EXIST. A.S.C.)

Added Pole Crossarm

POLE #H5

NORTH CKT. #1 (EXIST. A.S.C.)
HOSPITAL CKT. (NEW A.S.C.)
NORTH CKT. #2 (NEW A.S.C.)

NORTH CKT. #1 (EXIST.) A.S.C.
HOSPITAL CKT. (NEW) A.S.C.
NORTH CKT. #2 (NEW) A.S.C.

NORTH CKT. #1 (NEW A.S.C.) TERMINATE A.S.C. ON POLE H7.

POLE H7

POLE #H6

NORTH CKT. #1 (NEW A.S.C.) TERMINATE A.S.C. ON POLE H6R1

POLE #H6R1

Added N2-1 Ground ASB

PARTICIPATING NON-REIMBURSABLE

SCALE:
HORIZ. 1" = 20'
VERT. 1" = 10'

INDIAN ST. | COLD STORAGE | MAIN ST. | NORTH NO. 1 | ST. SIDE
POLE #H2

I. ST. | C.S. | MAIN ST. | N#1 | ST. SIDE | PRESENT LOCATION
POLE #H3

I. ST. | C.S. | MAIN ST. | N#1 | ST. SIDE
POLE #H4

N#1 | N#2 HOSP. | ST. SIDE
POLE #H5

LOOKING EAST
N.T.S.

N#1 | N#2 HOSP. | ST. SIDE
POLE #H6

N#1 | ST. SIDE
POLE #H7

LOOKING EAST
N.T.S.

POLE TOP EXTENSION

EXIST. 45'-2

5'-2

#4/0 AL. A.S.C., INDIAN ST. (NEAR SIDE - NEW)
#4/0 AL. A.S.C., COLD STORAGE (FAR SIDE - NEW)

#4/0 AL. A.S.C., MAIN ST. (FAR SIDE - NEW)

~~#1/0 AL. A.S.C., NORTH #1 (NEAR SIDE - EXIST.)~~

EXIST. CT'S AND CUT-OUTS (EXIST.)

FEDERAL BUILDING RISER (EXIST.)

27'

109'

95'

157'

#1/0 TPSD

#1/0 AL. A.S.C. NORTH #1 (NEAR SIDE - EXIST.)

#1/0 AL. A.S.C. NORTH #1 (NEAR SIDE - EXIST.)

#4/0 AL. A.S.C. #2 (FAR SIDE - NEW)

#4/0 AL. A.S.C., HOSP. (NEAR SIDE - NEW)

TELEPHONE

STA. "H" 1+35

STA. "H" 1+62

STA. "H" 3+59

POLE #H2

POLE #H3

POLE #H4

POLE #H5

POLE #H6

Deleted POWER VAULT NO. 2

Δ 90° 50' LT. STA. "H" 2+95

Δ 90° 50' LT. STA. "H" 5+40

55'-2

CCX-2

CCT-2B

NOTES
1. SEE SHT. 2 FOR LEGEND
2. SEE SHT. 1 FOR NOTES
3. STATIONING SHOWN ON PROFILE IS FOR CENTER LINE OF HIGHWAY.

REGISTERED PROFESSIONAL ENGINEER 4008 Samuel A. Lewis OREGON NOV. 16, 1964 SAMUEL A. LEWIS

STATE OF ALASKA 49TH No. 1119-E REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REVISION	BY	APD.
1	JUNE '73	ADDED BOY & ANCHOR POLE #H5	RRB	ALN

CH2M HILL — ENGINEERS PLANNERS ECONOMISTS

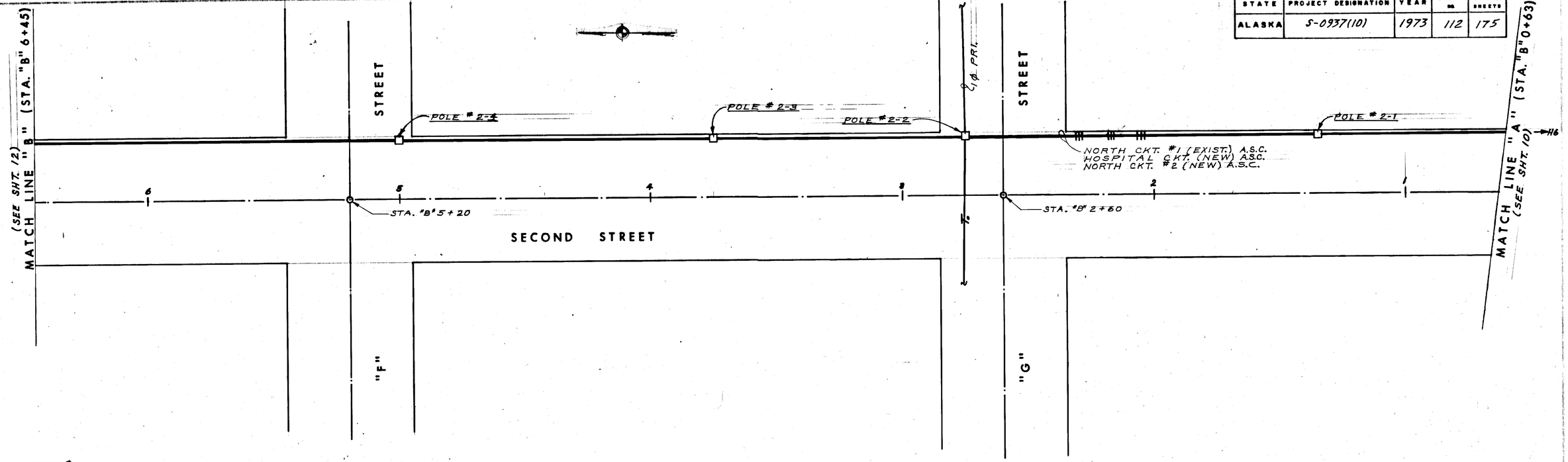
CORNELL HOWLAND HAYES & MERRYFIELD

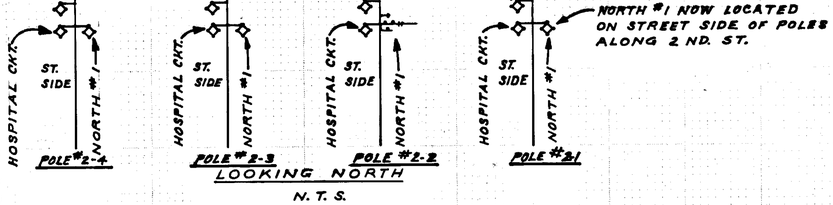
CITY OF PETERSBURG
PETERSBURG, ALASKA
PETERSBURG THRU ROUTE - PHASE I
ALASKA DEPT. OF HWYS. PROJ. S-0937(10)

POWER LINE RELOCATION

DES.	SAL
DR.	RRB
CK.	ALN
RN	C7699.1
SHEET	10
OF	10
DATE	FEB. 1973
SCALE:	AS SHOWN
DRAWING NO.	C 7699-1

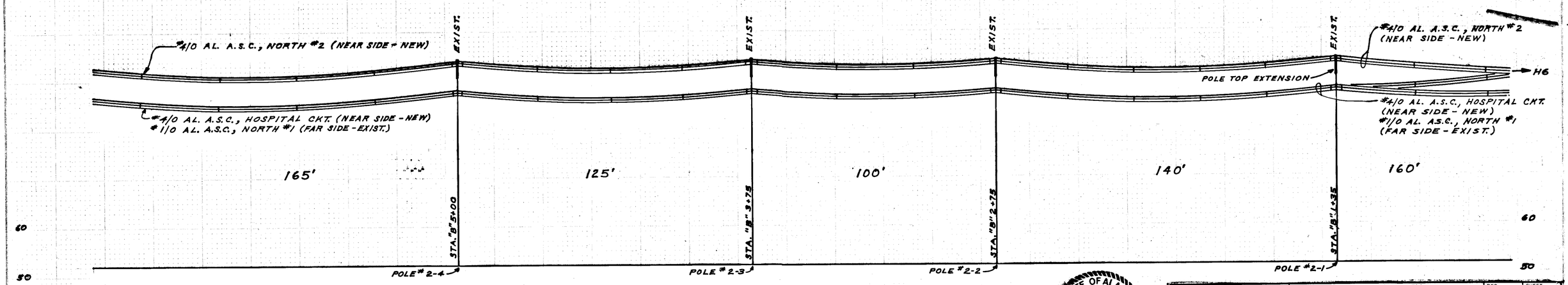
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	112	175





SCALE:
HORIZ. 1"=20'
VERT. 1"=10'

NOTES
1. SEE SHT. 2 FOR LEGEND
2. SEE SHT. 1 FOR NOTES
3. STATIONING SHOWN ON PROFILE IS FOR CENTER LINE OF HIGHWAY.



REGISTERED PROFESSIONAL ENGINEER 4065 OREGON Samuel A. Lewis NOV. 16, 1965 SAMUEL A. LEWIS

STATE OF ALASKA 49TH 6-15-73 Wm. F. Nunnelly No. 9119-E REGISTERED PROFESSIONAL ENGINEER

CH2M HILL — ENGINEERS PLANNERS ECONOMISTS

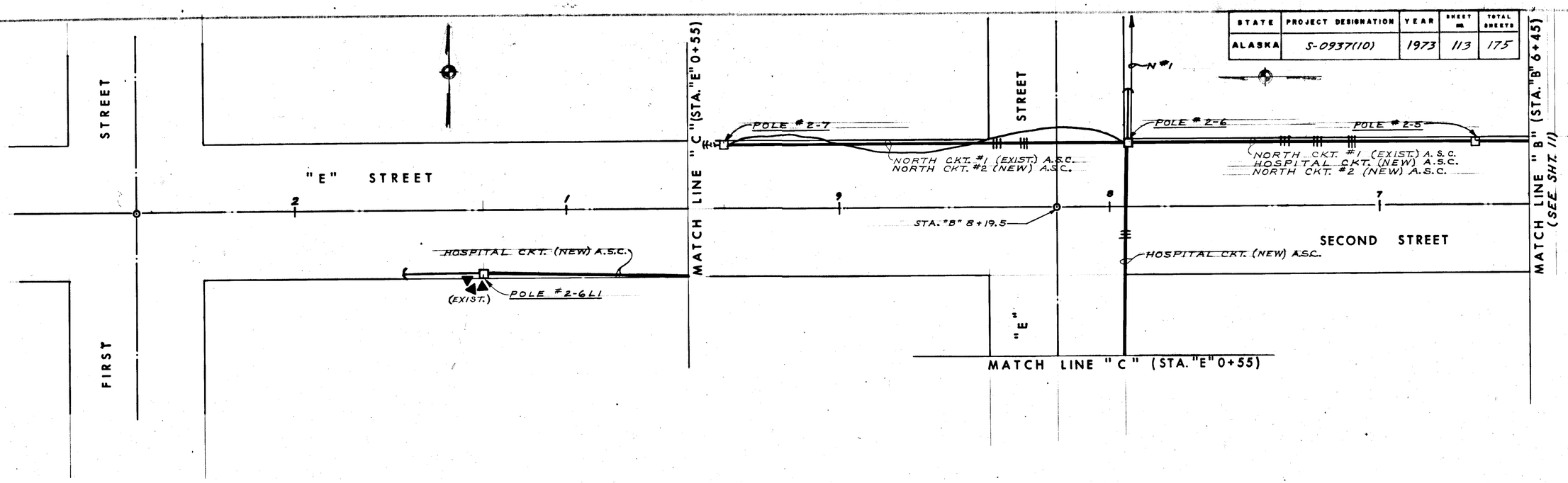
CORNELL HOWLAND HAYES & MERRYFIELD

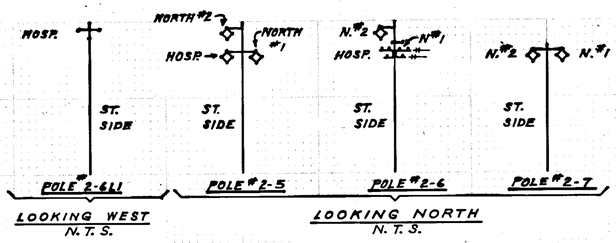
CITY OF PETERSBURG
PETERSBURG, ALASKA
PETERSBURG THRU ROUTE - PHASE I
ALASKA DEPT. OF HWYS. PROJ. S-0937(10)

POWER LINE RELOCATION

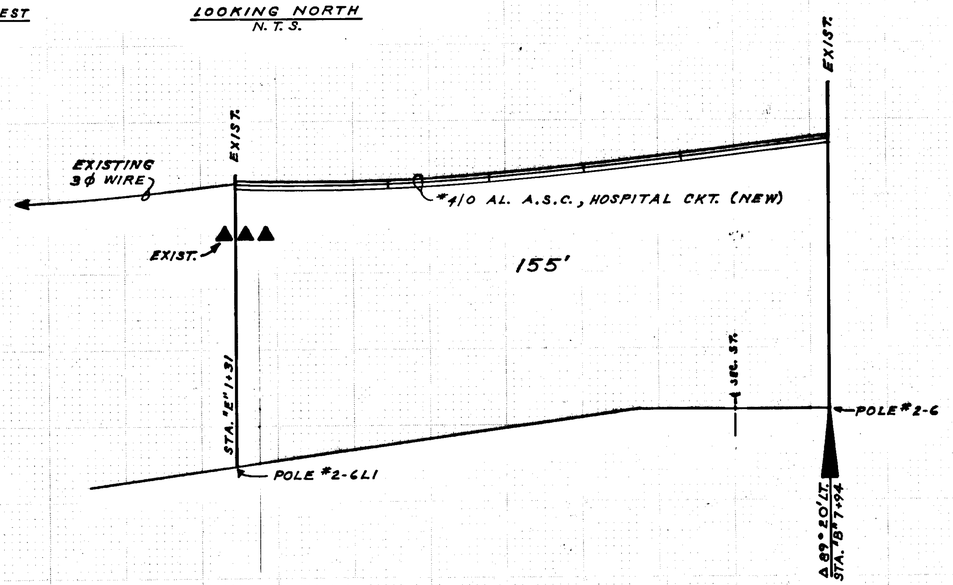
DES. SAL	SHEET 11
DR. RRB	OF 18
CK. ALH	DATE: FEB. 1973
RN C7699.1	SCALE: AS SHOWN
	DRAWING NO. C 7699-1

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	113	175



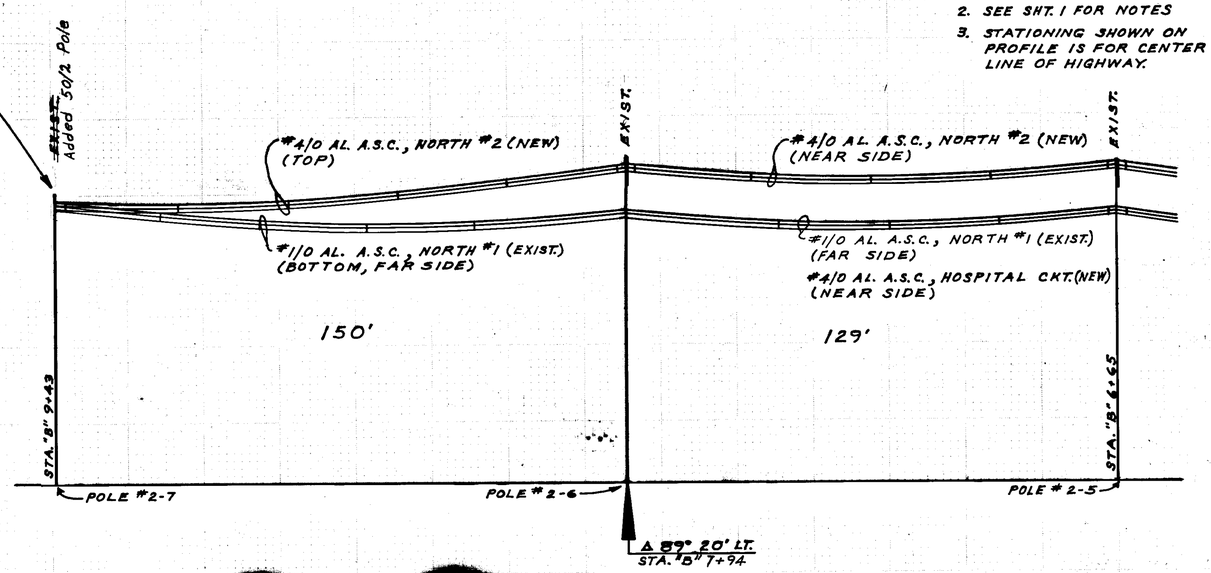


NOTE:
IF N. #2 IS NOT TO BE ETENDED BEYOND THIS POINT, POLE #2-7 MUST BE REPLACED WITH A 50'-2 POLE. N #2 WILL THEN BE DEADENDED AT TOP OF POLE WITH CCD-1.



SCALE:
HORIZ. 1" = 20'
VERT. 1" = 10'

NOTES
1. SEE SHT. 2 FOR LEGEND
2. SEE SHT. 1 FOR NOTES
3. STATIONING SHOWN ON PROFILE IS FOR CENTER LINE OF HIGHWAY.



REGISTERED PROFESSIONAL ENGINEER
OREGON
NOV. 16, 1945
SAMUEL A. LEWIS

STATE OF ALASKA
49TH
No. 1119-E
REGISTERED PROFESSIONAL ENGINEER

CH2M HILL
ENGINEERS PLANNERS ECONOMISTS

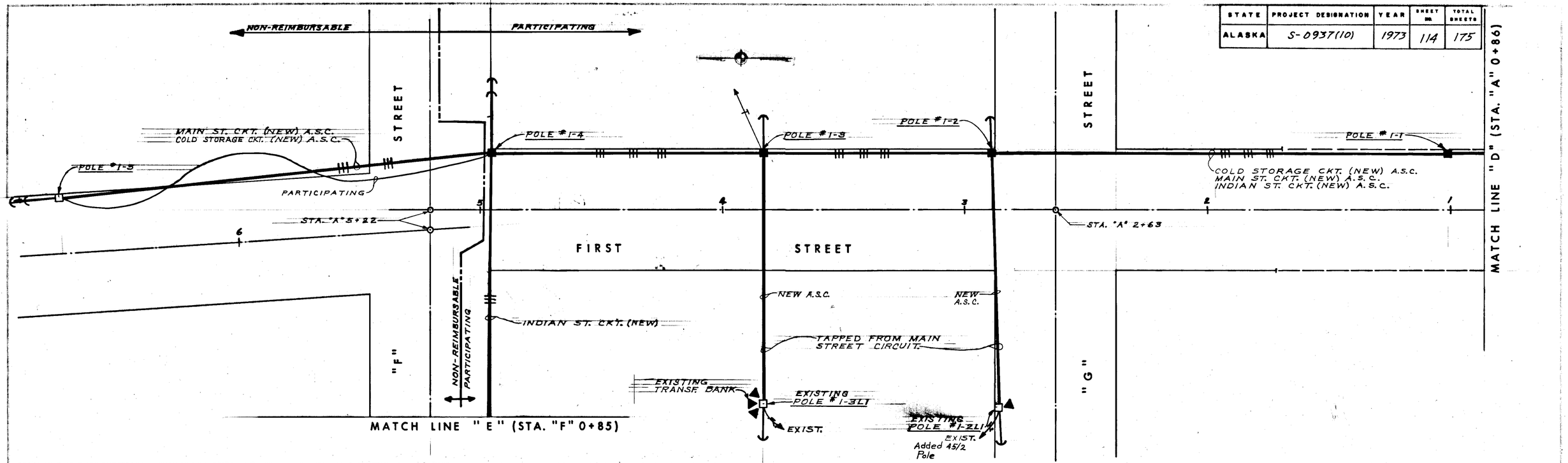
CORNELL HOWLAND HAYES & MERRYFIELD

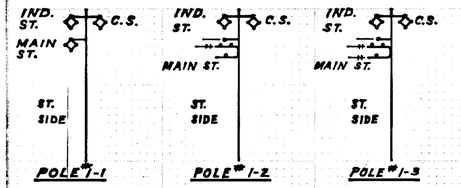
CITY OF PETERSBURG
PETERSBURG, ALASKA
PETERSBURG THRU ROUTE - PHASE I
ALASKA DEPT. OF HWYS. PROJ. S-0937(10)

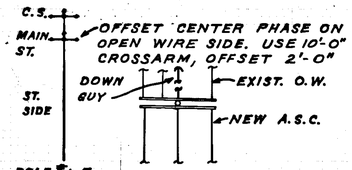
POWER LINE RELOCATION

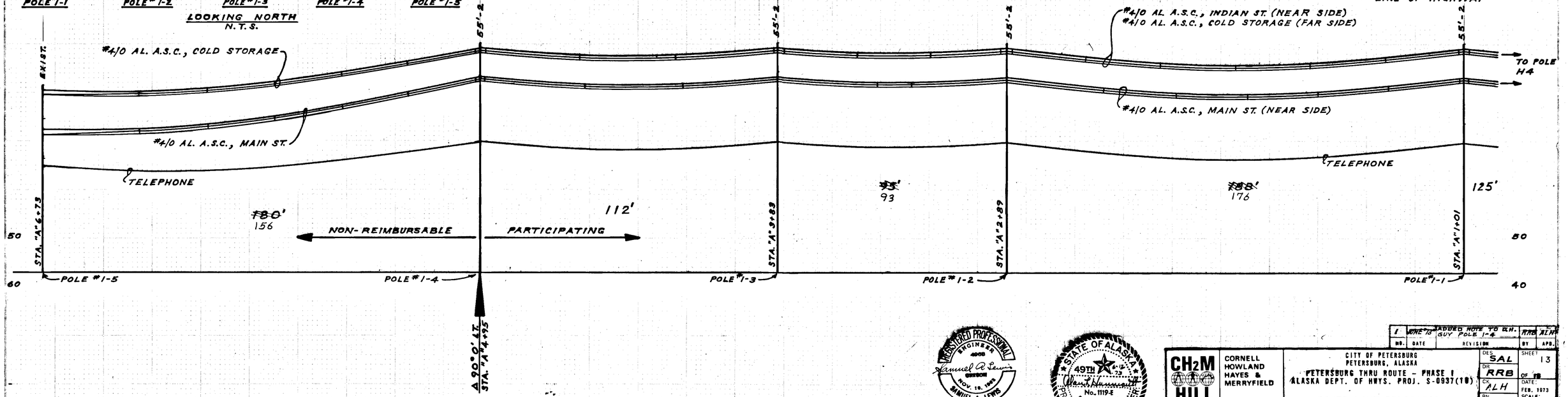
DES. SAL	SHEET 12
DR. RRB	OF 18
CK. ALH	DATE FEB. 1973
RN C7699.1	SCALE: AS SHOWN
DRAWING NO. C7699-1	

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	114	175









NOTES
1. SEE SHT. 2 FOR LEGEND
2. SEE SHT. 1 FOR NOTES
3. STATIONING SHOWN ON PROFILE 13 FOR CENTER LINE OF HIGHWAY

SCALE:
HORIZ. 1"=20'
VERT. 1"=10'

REGISTERED PROFESSIONAL ENGINEER — OREGON — SAMUEL A. LEWIS — NOV. 19, 1973

STATE OF ALASKA — 49TH — No. 1119-E — REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REVISION	BY	APP.
1	JUNE '73	ADDED NOTE TO ELEV. GUY POLE 1-4	RRB	ALH

CH2M HILL — ENGINEERS PLANNERS ECONOMISTS

CORNELL HOWLAND HAYES & MERRYFIELD

CITY OF PETERSBURG
PETERSBURG, ALASKA
PETERSBURG THRU ROUTE - PHASE I
ALASKA DEPT. OF HWYS. PROJ. S-0937(10)

POWER LINE RELOCATION

DES. SAL
DR. RRB
CK. ALH
RN C7699.1
DRAWING NO. C 7699-1
SHEET 13 OF 18
DATE: FEB. 1973
SCALE: AS SHOWN

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	115	175

EXISTING CKTS.
POLE #41
MAIN STREET
WAY
HARBOR
STA. "F" 3+64
STA. "F" 2+12
STA. "F" 2+61
"F" STREET
BY OTHERS
STA. "F" 3+46
POLE #1-4L4
POLE #1-4L3
POLE #1-4L2
POLE #1-4L1
POLE #1-4L4 GUY STUB
INDIAN ST. CKT. (NEW) A.S.C.
BY OTHERS
NON-REIMBURSABLE
PARTICIPATING
HOGUE ALLEY
MATCH LINE "E" (STA. "F" 0+86)
0+85

INDIAN ST. — ST. SIDE — POLE #1-4L1
INDIAN ST. — ST. SIDE — POLE #1-4L2
INDIAN ST. — ST. SIDE — POLE #1-4L3
INDIAN ST. — ST. SIDE — POLE #1-4L4
LOOKING WEST
N.T.S.

SCALE:
HORIZ. 1" = 20'
VERT. 1" = 10'

NOTES
1. SEE SHT. 2 FOR LEGEND
2. SEE SHT. 1 FOR NOTES
3. STATIONING SHOWN ON PROFILE IS FOR CENTER LINE OF STREET.

45'-2 (EXIST.)
#4/0 AL. A.S.C., INDIAN ST.
TELEPHONE
TELCO
TO POLE 1-4
#4/0 AL. A.S.C., INDIAN ST.
STA. "F" 3+37
STA. "F" 2+42
STA. "F" 1+54
POLE #1-4L4GS
POLE #1-4L4
POLE #1-4L3
POLE #1-4L2
POLE #1-4L1
59'
151'
122'
140'
108'
40
30
20

REGISTERED PROFESSIONAL ENGINEER — SAMUEL A. LEWIS — OREGON — NOV. 18, 1969

STATE OF ALASKA — 49TH — 1867 — 1959 — 73 — No. 1119-E — REGISTERED PROFESSIONAL ENGINEER

CH2M HILL — ENGINEERS PLANNERS ECONOMISTS
CORNELL HOWLAND HAYES & MERRYFIELD

CITY OF PETERSBURG
PETERSBURG, ALASKA
PETERSBURG THRU ROUTE - PHASE I
ALASKA DEPT. OF HWYS. PROJ. S-0937(10)

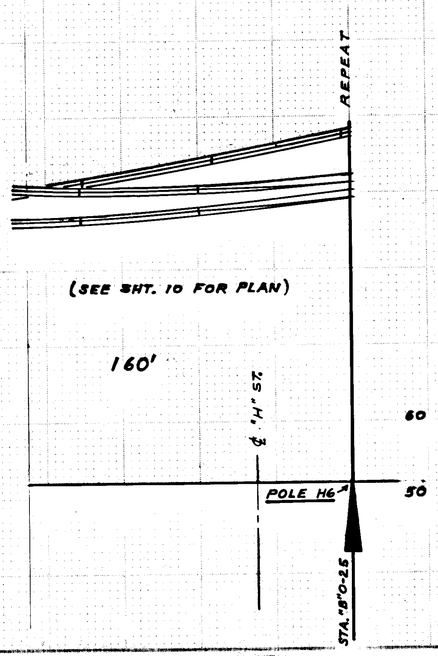
POWER LINE RELOCATION

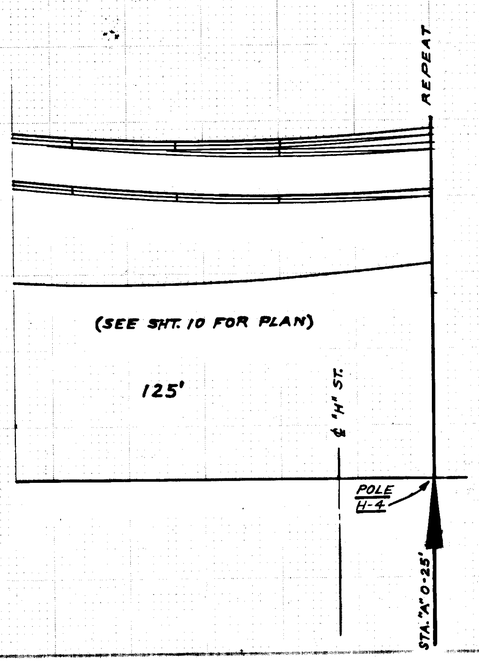
DES.	SAL	SHEET	14
DR.	RRB	OF	18
CK.	ALH	DATE:	FEB., 1973
RN.	C7699.1	SCALE:	AS SHOWN
DRAWING NO.	C 7699-1		

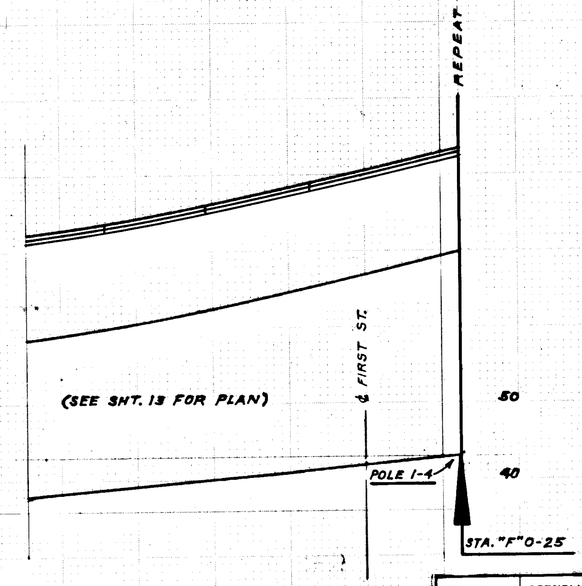
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	116	175

SCALE
HORIZ. 1" = 20'
VERT. 1" = 10'

NOTES
1. SEE SHT. 2 FOR LEGEND
2. SEE SHT. 1 FOR NOTES
3. STATIONING SHOWN ON PROFILE 13 FOR CENTER LINE OF STREET.







REGISTERED PROFESSIONAL ENGINEER
4068
Samuel A. Lewis
OREGON
NOV. 16, 1973
SAMUEL A. LEWIS

STATE OF ALASKA
49TH
No. 1119-E
REGISTERED PROFESSIONAL ENGINEER

CH2M HILL
ENGINEERS PLANNERS ECONOMISTS

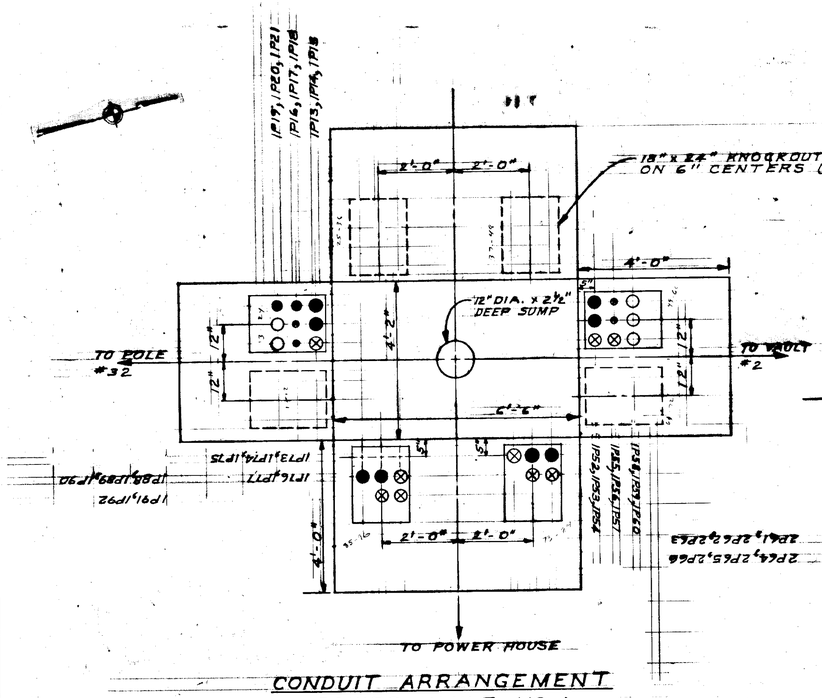
CORNELL HOWLAND HAYES & MERRYFIELD

CITY OF PETERSBURG
PETERSBURG, ALASKA
PETERSBURG THRU ROUTE - PHASE II
ALASKA DEPT. OF HWYS. PROJ. S-0937(10)

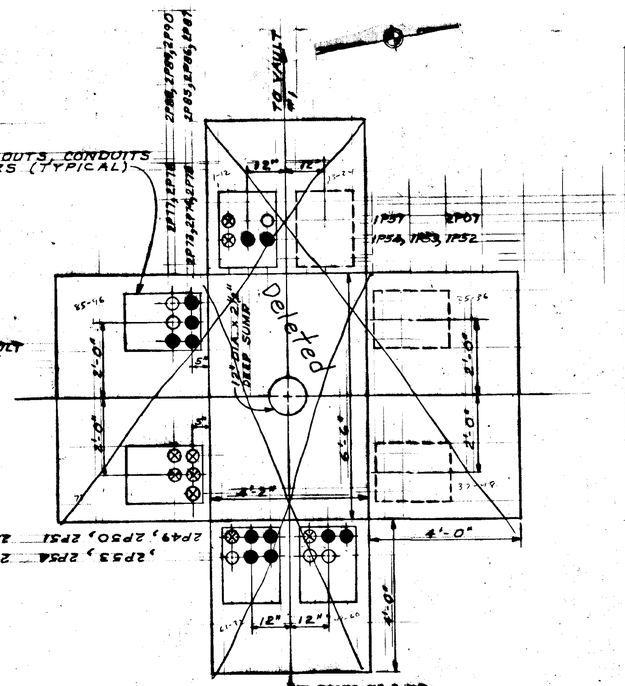
POWER LINE RELOCATION

DES.	SAL	SHEET	15
DR.	RRB	OF	
CK.	ALH	DATE	FEB. 1973
RN	C7699_1	SCALE:	AS SHOWN
DRAWING NO.	C 7699-1		

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	117	175



CONDUIT ARRANGEMENT
POWER VAULT NO. 1
1/2" = 1'-0"



CONDUIT ARRANGEMENT
POWER VAULT NO. 2
1/2" = 1'-0"

CONDUIT LIST - POWER

CONDUIT NO.	SIZE (IN.)	APPROX. LENGTH (FT)	PURPOSE	FROM	TO	CONDUCTOR
1P13	4	~~80~~ 85	SPARE	VAULT #1	POLE #32	
1P14	5	~~129~~ 135	LOWER ST. CKT.	VAULT #1	POLE #32	3-1000MCM - 5kV AND 1 #4/0 BBBV
1P15	4	~~115~~ 120	SOUTH FEEDER CKT.	VAULT #1	POLE #32	3-500 MCM - 5kV AND 1 #1/0 BBBV
1P16	2	2	STREET LIGHTS	VAULT #1	STUBOUT 2'	
1P17	2	2	STREET LIGHTS	VAULT #1	STUBOUT 2'	
1P18	3	~~105~~ 110	MUNICIPAL BUILDING	VAULT #1	POLE #32L1	3 #2 - 5kV 1 #2 - 15kV
1P19	4	2	STUB	VAULT #1		
1P20	4	2	STUB	VAULT #1		
1P21	3	~~105~~ 110	SPARE	VAULT #1	POLE #32L1	
1P52	4	~~223~~ 240	MAIN ST. CKT.	VAULT #1	H-2 ~~VAULT #2~~	3-500 MCM - 5kV AND 1 #1/0 BBBV
1P53	4	233 ~~238~~	COLD STORAGE CKT.	VAULT #1	H-2 ~~VAULT #2~~	3-500 MCM - 5kV AND 1 #1/0 BBBV
1P54	4	~~193~~ 198	SPARE	VAULT #1	H-2 ~~VAULT #2~~	
1P55	2	2	STREET LIGHT	VAULT #1	STUBOUT 2'	
1P56	2	2	STREET LIGHT	VAULT #1	STUBOUT 2'	
1P57	4	~~125~~ 130	SPARE	VAULT #1	~~VAULT #2~~	
1P58	0	2	STUB	VAULT #1	Street Light	
1P59	0	2	STUB	VAULT #1	" "	
1P60	4	2	STUB	VAULT #1		
1P73	4	0	SOUTH FEEDER CKT.	POWERHOUSE	VAULT #1	EXISTING UG CONDUCTORS
1P74	5	0	LOWER ST. CKT.	POWERHOUSE	VAULT #1	EXISTING UG CONDUCTORS
1P75	4	0	SPARE	POWERHOUSE	VAULT #1	
1P76	4	0	SPARE	POWERHOUSE	VAULT #1	
1P77	4	0	SPARE	POWERHOUSE	VAULT #1	
1P89	0	~~5~~ 0	STREET LIGHT CKT.	POWERHOUSE	VAULT #1	EXISTING UG CONDUCTORS #4/0 BBBV
1P90	4	~~5~~ 0	COLD STORAGE CKT.	POWERHOUSE	VAULT #1	EXISTING UG CONDUCTORS 1/0 BBBV
1P90	4	~~5~~ 0	MAIN ST. CKT.	POWERHOUSE	VAULT #1	
1P91	4	~~5~~ 0	SPARE	POWERHOUSE	VAULT #1	
1P92	4	~~5~~ 0	SPARE	POWERHOUSE	VAULT #1	
2P07	4	2	STUB	VAULT #2		
2P49	4	~~153~~ 158	NORTH CKT #2	VAULT #2	POLE #N5	3-500 MCM - 5kV AND 1 #1/0 BBBV
2P50	4	~~155~~ 160	HOSPITAL CKT.	VAULT #2	POLE #N5	3-500 MCM - 5kV AND 1 #1/0 BBBV
2P51	4	300	SPARE	VAULT #2	POLE #N5	
2P53	4	2	STUB	VAULT #2		
2P54	4	2	STUB	Vault #1 ~~VAULT #2~~		
2P61	4	233 ~~238~~	SOUTH ST. CKT.	Vault #1 ~~VAULT #2~~	POLE #N2	3-500 MCM - 5kV AND 1 #1/0 BBBV
2P62	4	~~223~~ 228	NORTH CKT. #1	Vault #1 ~~VAULT #2~~	POLE #N2	3-500 MCM - 5kV AND 1 #1/0 BBBV
2P63	4	40	SPARE	VAULT #2	POLE #N2	
2P64	4	40	MAIN ST. CKT.	VAULT #2	POLE #N2	3-500 MCM - 5kV AND 1 #1/0 BBBV
2P65	4	40	COLD STORAGE CKT.	VAULT #2	POLE #N2	3-500 MCM - 5kV AND 1 #1/0 BBBV
2P66	4"	2'	STUB	VAULT #2		
2P73	4	*100	SPARE (FOR EMERGENCY GEN.)	POWERHOUSE	~~VAULT #2~~ #H2	* BY OWNER
2P74	4	*100	SPARE	GEN. UNIT #2	~~VAULT #2~~ #H2	
2P75	3	*100	SPARE	POWERHOUSE	Vault ~~VAULT #2~~ #H2	
2P77	4	*100	SPARE	POWERHOUSE	~~VAULT #2~~ #H2	
2P78	4	*100	SPARE	POWERHOUSE	~~VAULT #2~~ #H2	
2P79	4	CO~~NE~~ 34 ~~5~~	NORTH ST. CKT.	POWERHOUSE	~~VAULT #2~~ #H2	EXISTING
2P86	4	CO~~NE~~ 34 ~~5~~	HOSPITAL	POWERHOUSE	~~VAULT #2~~	EXISTING
2P87	34	CO~~NE~~ 34 ~~5~~	NORTH CKT. #2	POWERHOUSE	~~VAULT #2~~ #H2	SPLICE EXIST. CONDUCTORS TO VAULT
2P88	0	CO~~NE~~ 34 ~~5~~	NORTH CKT. #1	POWERHOUSE	~~VAULT #2~~ #H2	~~EXISTING~~
~~2P89~~	~~2~~	~~2~~	~~STUB~~	~~VAULT #2~~		
~~2P90~~	~~2~~	~~2~~	~~STUB~~	~~VAULT #2~~		

LEGEND

- ● CONDUIT WITH CONDUCTORS INSTALLED
- ⊗ SPARE CONDUIT, RUN BETWEEN POINTS INDICATED, TERMINATE UNDERGROUND AND CAP, UNLESS OTHERWISE NOTED.
- ○ STUB CONDUIT OUT APPROX. 2' AND CAP.

NOTE

1. VAULT SHALL BE CONCRETE CONDUIT COMPANY #575-LA.
2. UNDERGROUND CONDUIT TO BE PVC, SCHED. 40. ABOVEGROUND CONDUIT TO BE RIGID GALVANIZED STEEL.

NO.	DATE	REVISION	BY	APD.
1	JUNE '73	GEN. CHANGE COND. LIST	RRB	RLH

REGISTERED PROFESSIONAL ENGINEER 4905 OREGON NOV. 10, 1965 Samuel A. Lewis SAMUEL A. LEWIS

STATE OF ALASKA 49TH 1867 1959 Glen K. Simmons No. 1119-E REGISTERED PROFESSIONAL ENGINEER

CH2M HILL
ENGINEERS PLANNERS ECONOMISTS

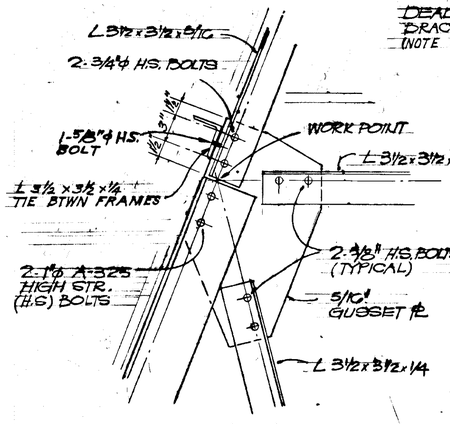
CORNELL HOWLAND HAYES & MERRYFIELD

CITY OF PETERSBURG
PETERSBURG, ALASKA
PETERSBURG THRU ROUTE - PHASE I
ALASKA DEPT. OF HWYS. PROJ. S-0937(10)

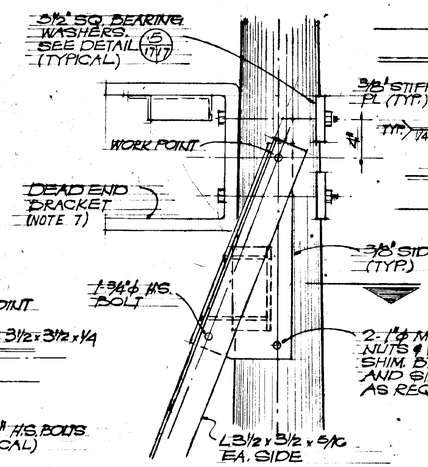
POWER LAYOUT
VAULTS NO. 1 & NO. 2

DES.	SAL
DR.	RRB
CK.	ALH
RN	67699.1
SHEET	16
OF	18
DATE:	FEB. 1973
SCALE:	AS SHOWN
DRAWING NO.	C 7699-1

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	118	175

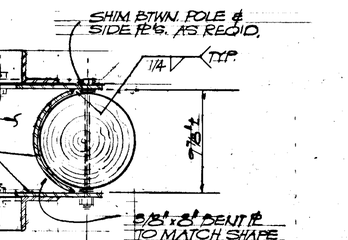


DETAIL 2 (17/17)
1½"=1'-0"

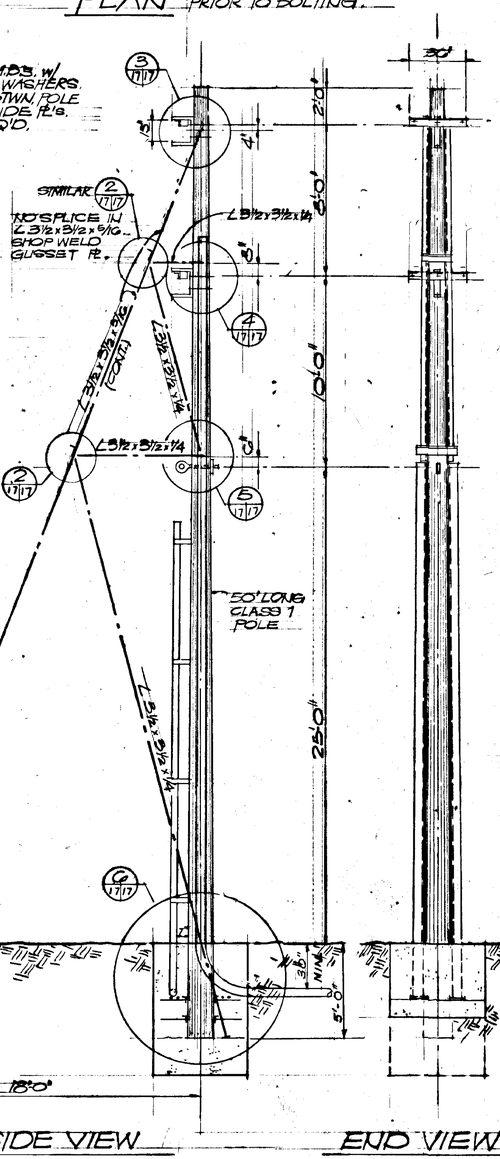


ELEVATION

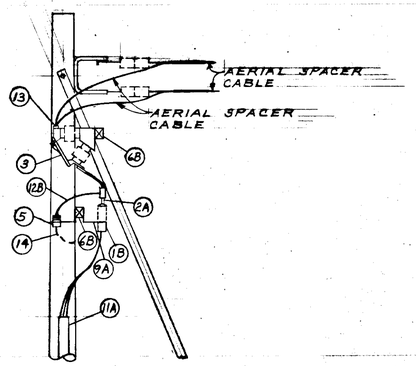
DETAIL 3 (17/17)
1½"=1'-0"



PLAN

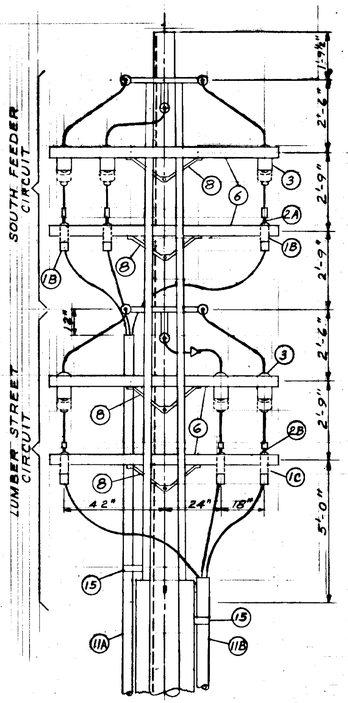

SIMILAR (2) (17/17)
NO SPLICE IN L 3½x3½x5/16. SHOP WELD GUSSET PL.
L 3½x3½x¼
L 3½x 3½ x 3/8 (TYP.)
L 3½x3½x¼
L 3½x3½x¼
50'-0"
2'-0"
4'
15'
3'
3'
3

STATE	PROJECT DESIGNATION	YEAR	NO.	SHEETS
ALASKA	S-0937(10)	1973	119	175

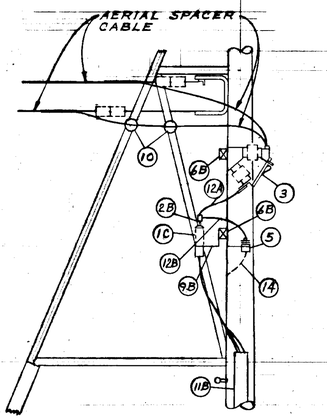


SIDE VIEW
SOUTH FEEDER CKT.
3/8" = 1'-0"

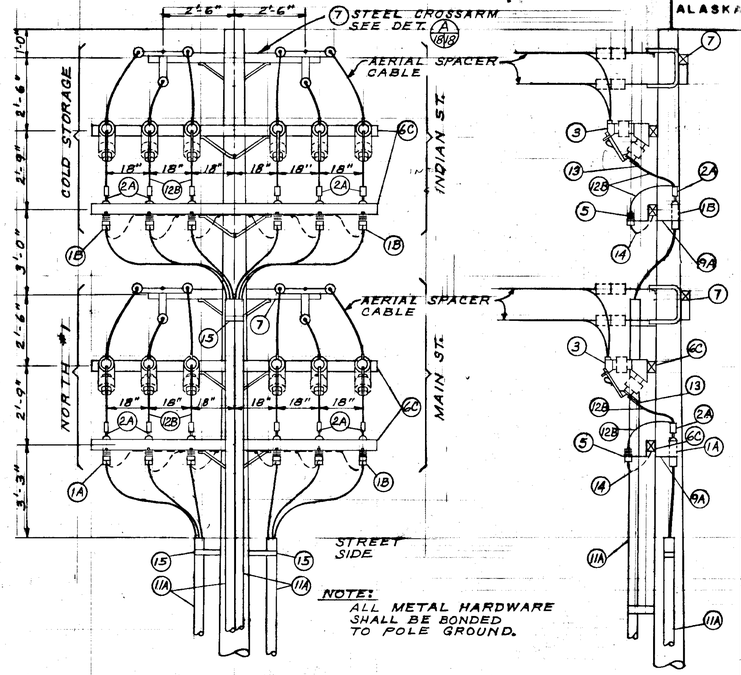
NOTE:
ALL METAL HARDWARE SHALL BE BONDED TO THE POLE GROUND



POLE NO. 32
3/8" = 1'-0"



SIDE VIEW
LUMBER ST. CKT.
3/8" = 1'-0"

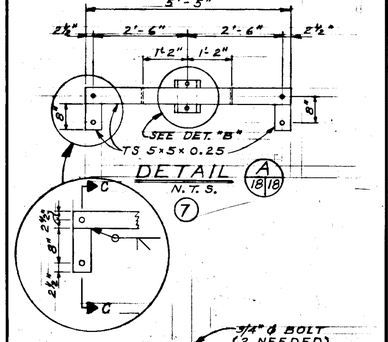


NOTE:
ALL METAL HARDWARE SHALL BE BONDED TO POLE GROUND.

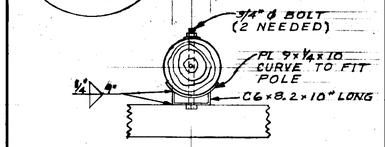
FRONT VIEW

SIDE VIEW

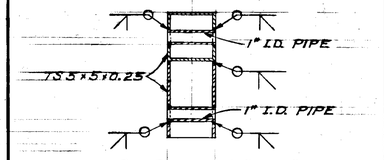
POLE NO. H2
3/8" = 1'-0"



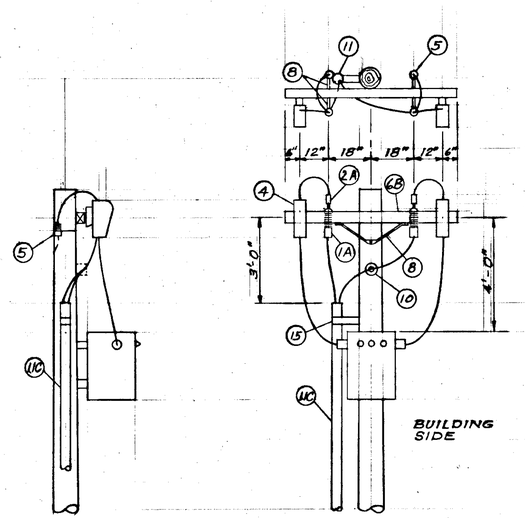
DETAIL A 18/18 ⑦
N.T.S.



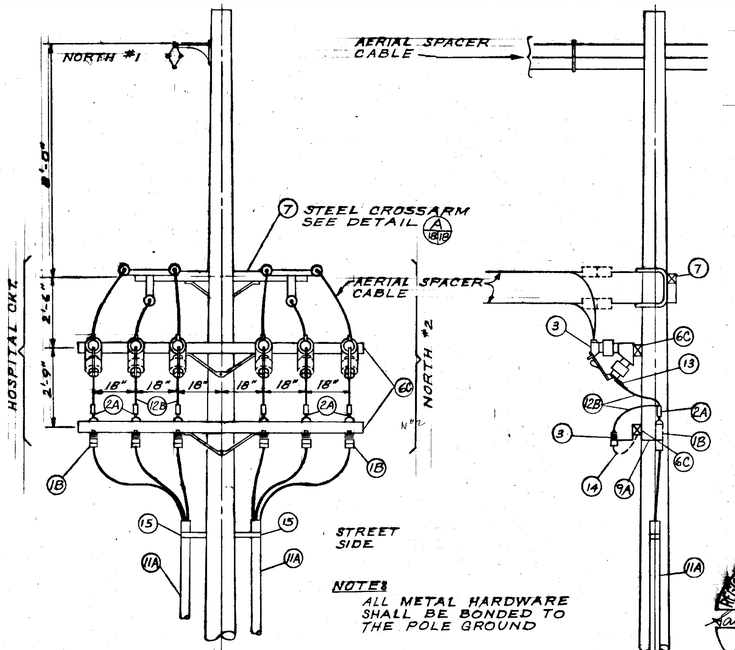
DETAIL "B"
N.T.S.



SECTION "C-C"
N.T.S.



POLE NO. 32-L1
3/8" = 1'-0"



NOTE:
ALL METAL HARDWARE SHALL BE BONDED TO THE POLE GROUND

FRONT VIEW

SIDE VIEW

POLE NO H5
3/8" = 1'-0"

MATERIAL LIST

ITEM NO.	DESCRIPTION		REQUIRED: POLE #32 SOUTH FEEDER	POLE #32 LUMBER ST.	POLE #32-L1 SERV.	POLE #2 MAIN ST.	POLE #2 COLO STD.	POLE #2 INDIAN ST.	POLE #2 NORTH #1	POLE #5 HOSP.	POLE #5 NORTH #2
1	SLIP-ON TERMINATOR:	A #4-250MCM - G&W #PAT 1701			2				3		
		B #3/0-500MCM - G&W #PAT 1772	3			3	3	3		3	3
		C #3/0-1000MCM - G&W #PATR 1773		3							
2	AERIAL LUG FOR SLIP-ON TERMINATOR:	A #2-500MCM - G&W #A5076-180A	3		2	3	3	3	3	3	3
		B 550-1000MCM - G&W #A576-191A		3							
3	DISCONNECT SWITCH - HOOK OPERATED; 7.5 kV, 600 AMP. ELTEC. #3-51-A.		3	3		3	3	3	3	3	3
4	FUSED DISCONNECT, ENCLOSED, 7.8 kV, 100 AMP. FUSE AS REQUIRED WESTINGHOUSE TYPE EU.				2						
5	LIGHTNING ARRESTOR 3 kV DISTRIBUTION TYPE WITH CROSS-ARM MOUNTING BRACKET. OHIO BRASS TYPE DA-3.		3	3	2	3	3	3	3	3	3
6	CROSS ARM, WOOD, 4-1/2"x3-1/2":	A 6 FT LONG			1						
		B 8 FT LONG	2	2							
		C 10 FT LONG				2		2		2	
7	CROSS ARM, STEEL, GALVANIZED. PER DETAIL A, THIS SHT.					1		1		1	
8	CROSS ARM BRACE		1	1	1	1		1		1	
9	MOUNTING BRACKET FOR CROSS-ARM MOUNTED TERMINATOR:	A FOR BRACKET TYPE, G&W #B5071-221	3		2	3	3	3	3	3	3
		B FOR FLANGE TYPE, G&W #B5071-273A		3							
10	INSULATOR, PIN TYPE, 15kV. HENDRIX #HPI-15 WITH #RT-3			2	1						
11	CONDUIT RISER, RIGID STEEL GALVANIZED. LENGTH AS REQUIRED.	A 4" IPS	✓		✓	✓	✓	✓	✓	✓	✓
		B 5" IPS		✓							
		C 3" IPS			✓						
12	JUMPERS, BARE ALUMINUM, STRANDED, OR 5 kV INSULATED.	A 336.4MCM		✓							
		B #4/0	✓	✓		✓	✓	✓		✓	✓
		C #1/0			✓				✓		
13	CONNECTORS AS REQUIRED		✓	✓	✓	✓	✓	✓	✓	✓	✓
14	GROUNDING CONDUCTOR - #4 CU SOLID		✓	✓	✓	✓	✓	✓	✓	✓	✓
15	CONDUIT STAND-OF-BRACKET-WESTERN POWER PRODUCTS B-18 OR B-20.		✓	✓	✓	✓	✓	✓	✓	✓	✓

NO.	DATE	REVISION	BY	APD.
1	JUNE '73	CHANGED ITEM NUMBERS	RRB	ALH

REGISTERED PROFESSIONAL ENGINEER 4005 OREGON Samuel A. Lewis NOV. 19, 1945 SAMUEL A. LEWIS

STATE OF ALASKA 49TH STATE REGISTERED PROFESSIONAL ENGINEER No. 1119-E

CH2M HILL
ENGINEERS PLANNERS ECONOMISTS

CORNELL HOWLAND HAYES & MERRYFIELD

CITY OF PETERSBURG
PETERSBURG, ALASKA
PETERSBURG THRU ROUTE - PHASE I
ALASKA DEPT. OF HWYS. PROJ. S-0937(10)

RISER POLE DETAILS

DES.	RRB
DR.	SAL
CK.	ALH
RN	C7699.1
SHEET	18
OF	18
DATE:	
SCALE:	AS SHOWN
DRAWING NO.	C 7699-1

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	120	175

POLE #1A

3Ø 2-#6 CU.
1-#8 CU.

1" = 20'

4"x4" POST

MITKOF HIGHWAY

POLE #1

5-#6 Cu.
1-#8 Cu.

POLE #2

POLE #3

POLE #3 G.S.

MATCH LINE - 0+44.40

3 WIRE SECONDARY

3 WIRE SECONDARY

3 WIRE

MOVE POLE TO NEW SITE

BAKER STREET

NOTE :
BEGIN PROJECT
@ "0" 9+24

3Ø SEC.

MITKOF HIGHWAY

POLE #4

POLE #5

POLE #6

POLE #6 G.S.

POLE #7

POLE #7 G.S.

5-#6 CU.
1-#8 CU.

3 WIRE SECONDARY

1Ø PRIMARY
2 WIRE

3-25 KVAR CAPACITORS

"M" STREET

MATCH LINE - 0+20.00
(SEE SHT. 2)

N

1" = 20'

LEGEND

- STREET LIGHT TO BE RETIRED
- EXISTING POLE REUSED
- EXISTING POLE RETIRED
- TRIPLEX
- OVERHEAD GUY RETIRED
- EXISTING TO BE TRANSFERED
- EXISTING TO BE RETIRED
- GUY TO BE RETIRED
- TRANSFORMER TO BE RETIRED
- CAPACITOR TO BE RETIRED

REGISTERED PROFESSIONAL ENGINEER
4068
OREGON
NOV. 16, 1973
SAMUEL A. LEWIS

STATE OF ALASKA
49TH
No. 1119-E
REGISTERED PROFESSIONAL ENGINEER

CH2M HILL
ENGINEERS PLANNERS ECONOMISTS

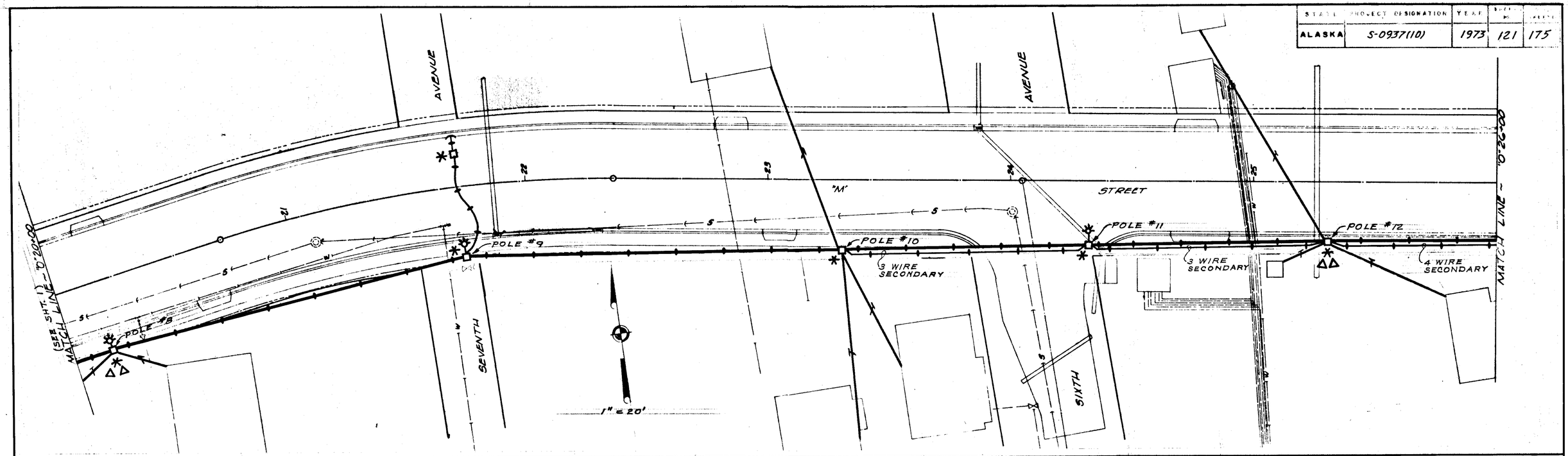
CORNELL HOWLAND HAYES & MERRYFIELD

CITY OF PETERSBURG
PETERSBURG, ALASKA
PETERSBURG THRU ROUTE - PHASE I
ALASKA DEPT. OF HWYS. PROJ. S-0937(10)

POLE LINE RELOCATION
RETIREMENT

DES. SAL	SHEET 1
DR. RRB	OF 7
CK. ALH	DATE: APRIL 1973
RN. C7699_1	SCALE: AS SHOWN
DRAWING NO.	C 7699-2

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	121	175



NOTE

SEE SHEET 1 FOR LEGEND

REGISTERED PROFESSIONAL ENGINEER 4068 OREGON NOV. 16, 1965 SAMUEL A. LEWIS

STATE OF ALASKA 49TH 1959 No. 1119-E REGISTERED PROFESSIONAL ENGINEER

CH2M HILL — ENGINEERS PLANNERS ECONOMISTS

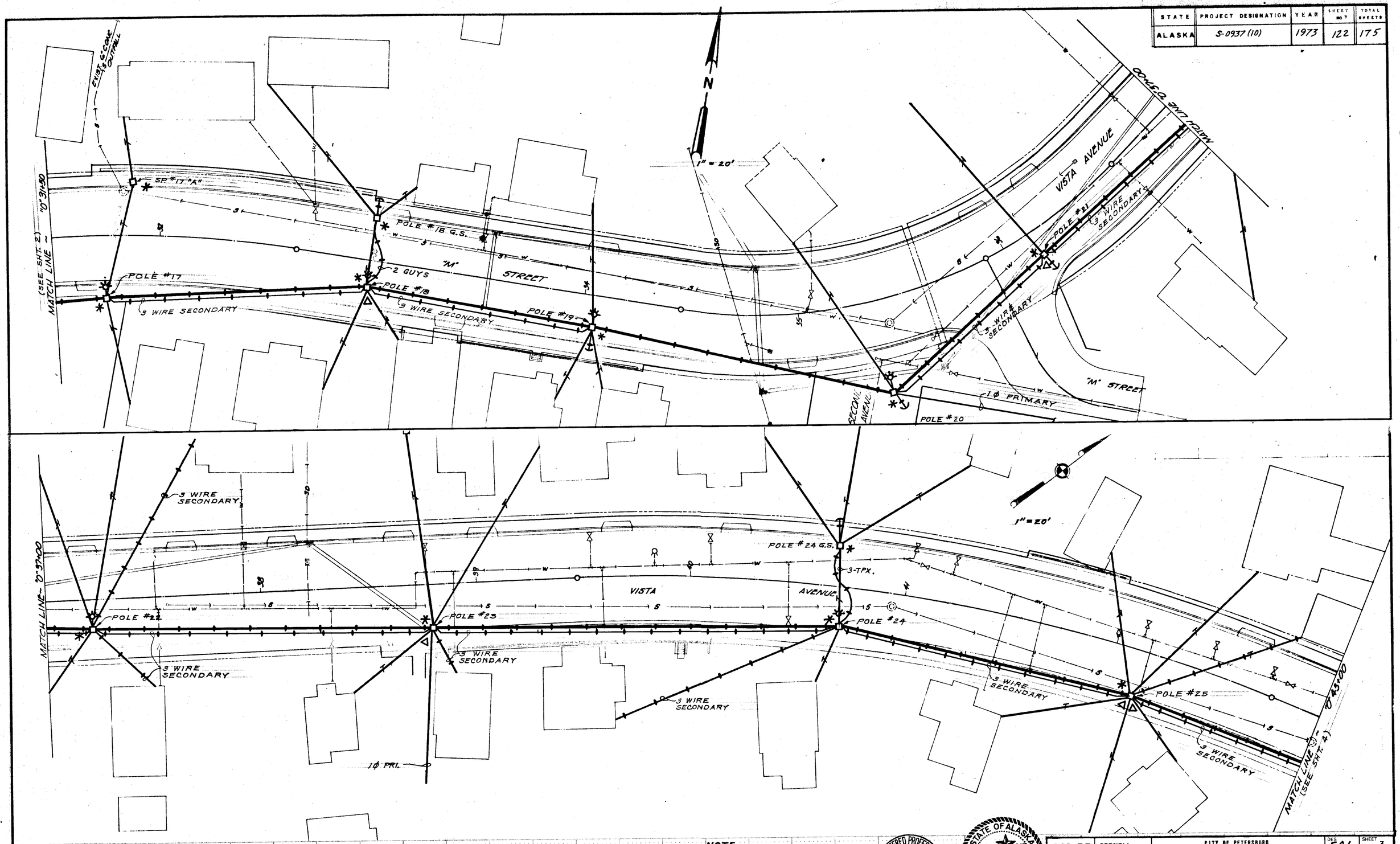
CORNELL HOWLAND HAYES & MERRYFIELD

CITY OF PETERSBURG
PETERSBURG, ALASKA
PETERSBURG THRU ROUTE - PHASE I
ALASKA DEPT. OF HWYS. PROJ. S-0937(10)

POLE LINE RELOCATION
RETIREMENT

DES. SAL	SHEET 2
DR. RRB	OF 7
CK. ALH	DATE: APRIL 1973
RN C7699.1	SCALE: AS SHOWN
DRAWING NO. C 7699-2	

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	3	175



NOTE
SEE SHEET 1 FOR LEGEND

REGISTERED PROFESSIONAL ENGINEER 4065 OREGON NOV. 16, 1982 SAMUEL A. LEWIS

STATE OF ALASKA 49TH 75 No. 1119-E REGISTERED PROFESSIONAL ENGINEER

CH2M HILL — ENGINEERS PLANNERS ECONOMISTS

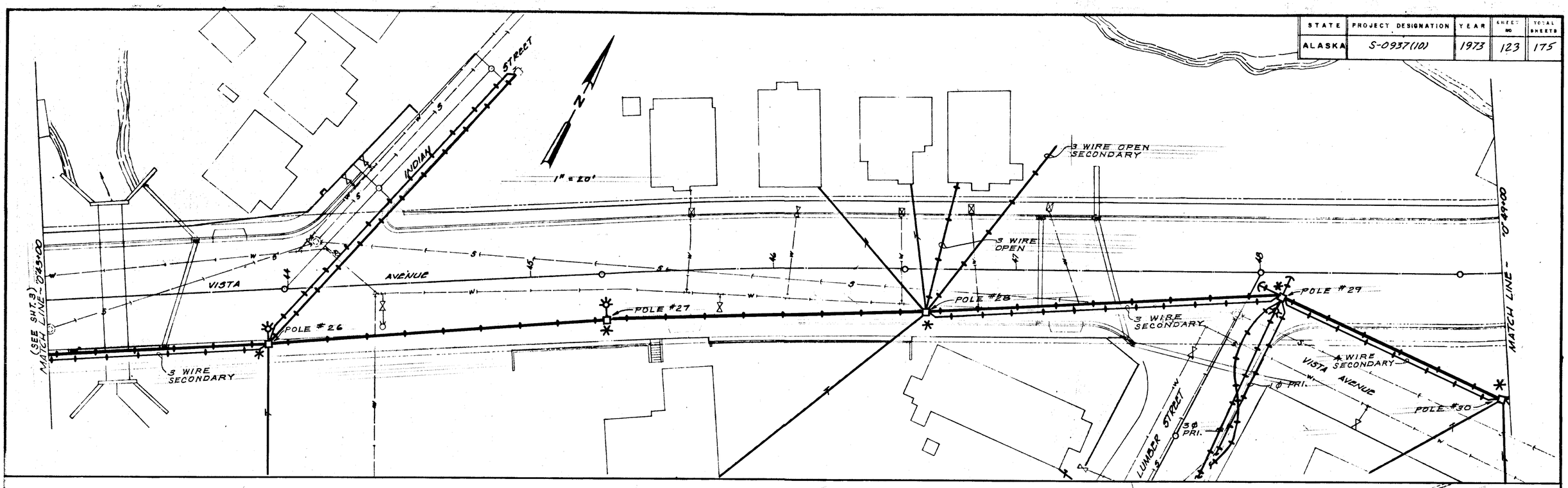
CORNELL HOWLAND HAYES & MERRYFIELD

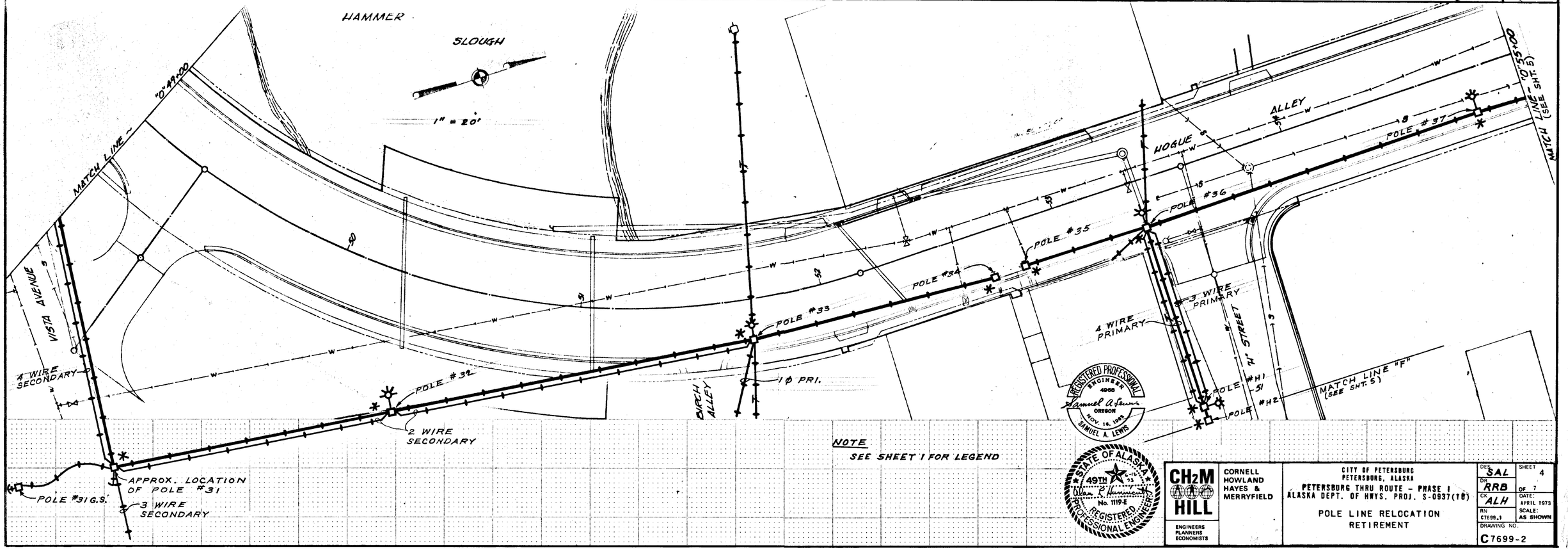
CITY OF PETERSBURG
PETERSBURG, ALASKA
PETERSBURG THRU ROUTE – PHASE I
ALASKA DEPT. OF HWYS. PROJ. S-0937(10)

POLE LINE RELOCATION
RETIREMENT

DES. SAL	SHEET 3
DR. RRB	OF 7
CK. ALH	DATE: APRIL 1973
RN C7699_1	SCALE: AS SHOWN
DRAWING NO. C 7699-2	

STATE	PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
ALASKA	S-0937(10)	1973	123	175





NOTE
SEE SHEET 1 FOR LEGEND

REGISTERED PROFESSIONAL ENGINEER
4966
OREGON
NOV. 16, 1965
SAMUEL A. LEWIS

STATE OF ALASKA
49TH
No. 1119-E
REGISTERED PROFESSIONAL ENGINEER

CH2M HILL
ENGINEERS PLANNERS ECONOMISTS

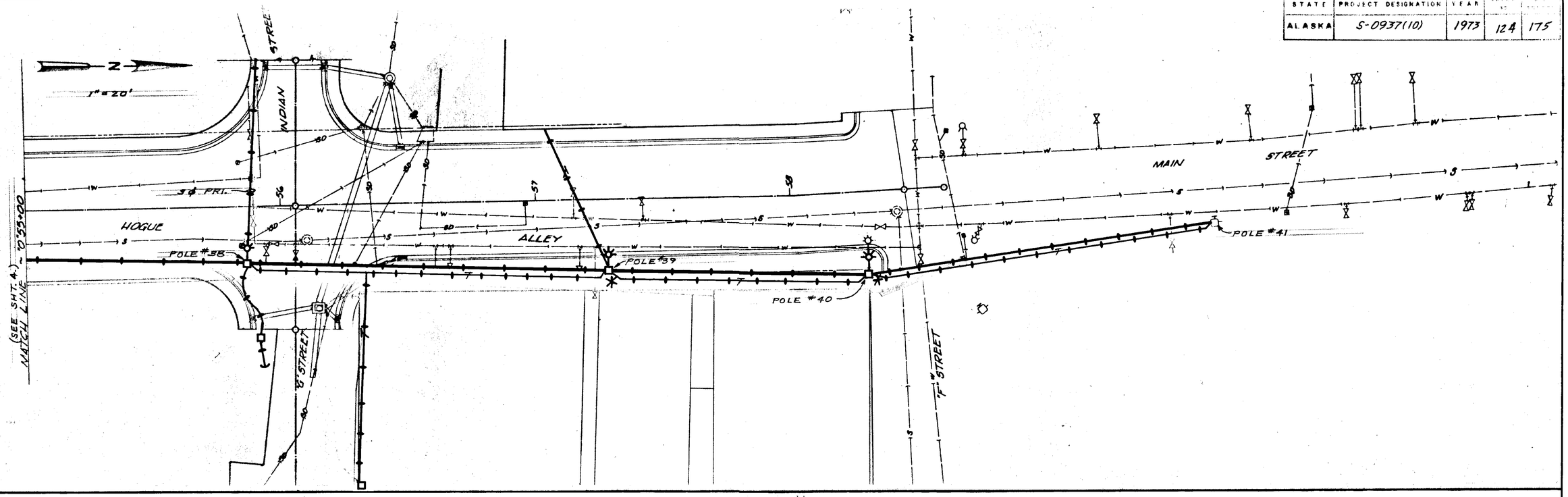
CORNELL HOWLAND HAYES & MERRYFIELD

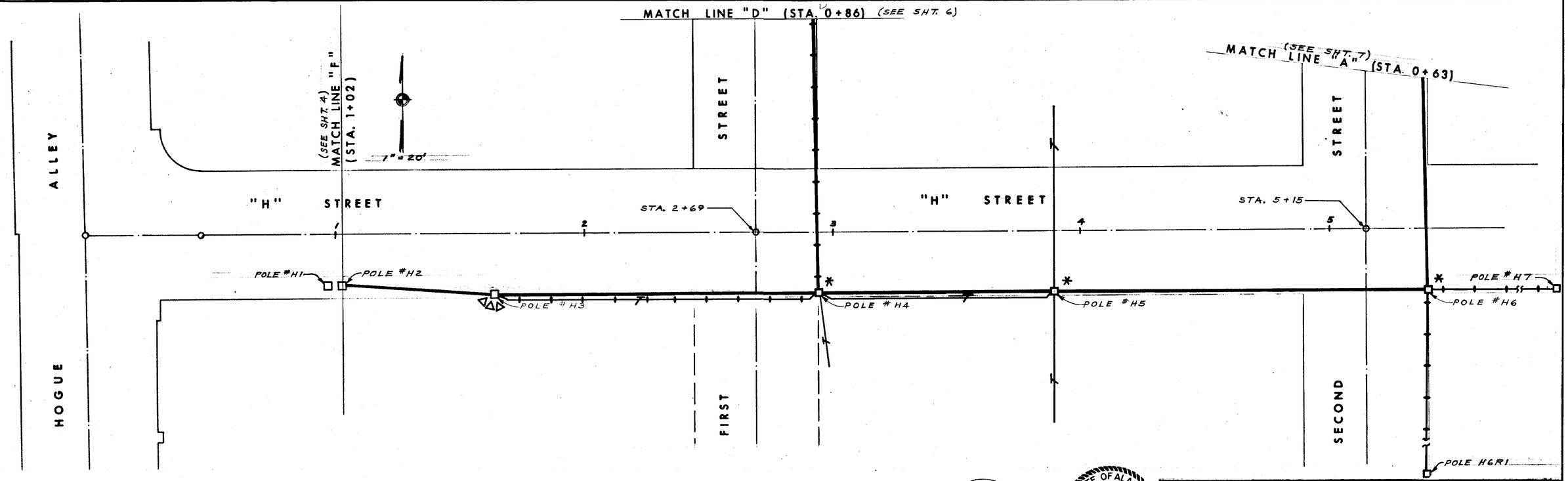
CITY OF PETERSBURG
PETERSBURG, ALASKA
PETERSBURG THRU ROUTE - PHASE I
ALASKA DEPT. OF HWYS. PROJ. S-0937(10)

POLE LINE RELOCATION
RETIREMENT

DES. SAL	SHEET 4
DR. RRB	OF 7
CK. ALH	DATE: APRIL 1973
RN C7699.1	SCALE: AS SHOWN
DRAWING NO. C7699-2	

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	124	175





NOTE
SEE SHEET 1 FOR LEGEND

REGISTERED PROFESSIONAL ENGINEER 4068 OREGON NOV. 16, 1961 SAMUEL A. LEWIS

STATE OF ALASKA 49TH No. 1119-E REGISTERED PROFESSIONAL ENGINEER

CH2M HILL
ENGINEERS PLANNERS ECONOMISTS

CORNELL HOWLAND HAYES & MERRYFIELD

CITY OF PETERSBURG
PETERSBURG, ALASKA
PETERSBURG THRU ROUTE - PHASE I
ALASKA DEPT. OF HWYS. PROJ. S-0937(10)

POLE LINE RELOCATION
RETIREMENT

DES. SAL	SHEET 5		
DR. RRB	OF 7		
CK. ALH	DATE: APRIL 1973		
RN C7698_1	SCALE: AS SHOWN		
DRAWING NO. C7699-2			

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	125	175

1" = 20'

STREET

POLE #1-4

POLE #1-3

POLE #1-2

STREET

POLE #1-5

STA. 3+21

STA. 2+63

6 5 4 3 2 1

FIRST STREET

MATCH LINE "D" (STA. 0+86) (SEE SHT. 5)

"F"

"G"

MATCH LINE "E" (STA. 0+85)

POLE 1-3L1

EXIST. POLE 1-2L1

TO POLE #39

POLE 41

1" = 20'

WAY

MAIN STREET

"F" STREET

"F" STREET

STA. 5+46

STA. 3+64

STA. 2+72

STA. 2+61

5 4 3 2 1

POLE 1-4L4

POLE 1-4L3

POLE 1-4L2 (POLE 40)

POLE 1-4L1

HARBOR

HOGUE ALLEY

MATCH LINE "E" (STA. 0+85)

REGISTERED PROFESSIONAL ENGINEER 4068 OREGON NOV. 19, 1981 SAMUEL A. LEWIS

STATE OF ALASKA 49TH 73 REGISTERED No. 1119-E PROFESSIONAL ENGINEER

NOTE

SEE SHEET 1 FOR LEGEND

CH2M HILL ENGINEERS PLANNERS ECONOMISTS

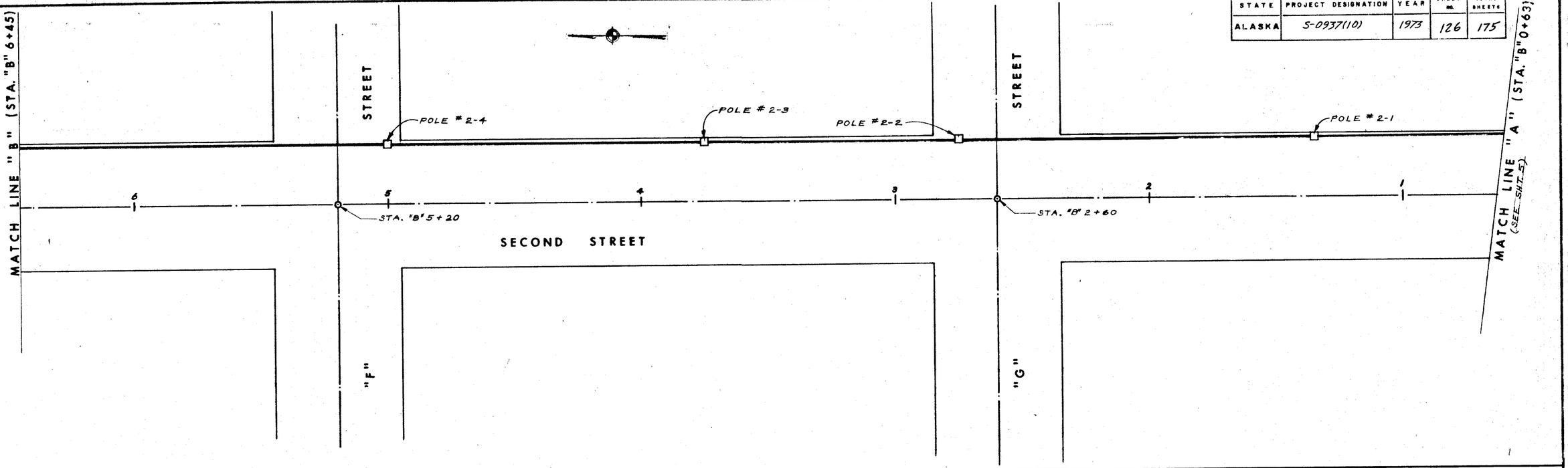
CORNELL HOWLAND HAYES & MERRYFIELD

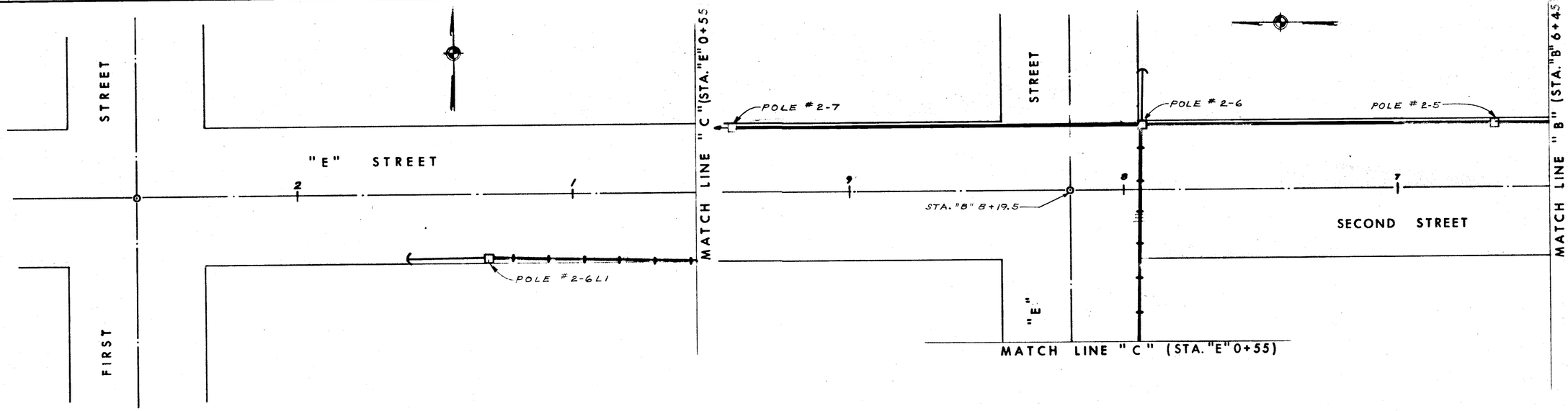
CITY OF PETERSBURG
PETERSBURG, ALASKA
PETERSBURG THRU ROUTE - PHASE 1
ALASKA DEPT. OF HWYS. PROJ. S-0937(10)

POLE LINE RELOCATION
RETIREMENT

DES.	SAL
DR.	RRB
CK.	ALH
RN	C7699_1
DRAWING NO.	C7699-2
SHEET	6
OF	7
DATE:	APRIL 1973
SCALE:	AS SHOWN

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	126	175





REGISTERED PROFESSIONAL ENGINEER 4965 OREGON Samuel A. Lewis NOV. 16, 1965 SAMUEL A. LEWIS

STATE OF ALASKA 49TH 1867 1967 No. 1119-E REGISTERED PROFESSIONAL ENGINEER

CH2M HILL ENGINEERS PLANNERS ECONOMISTS

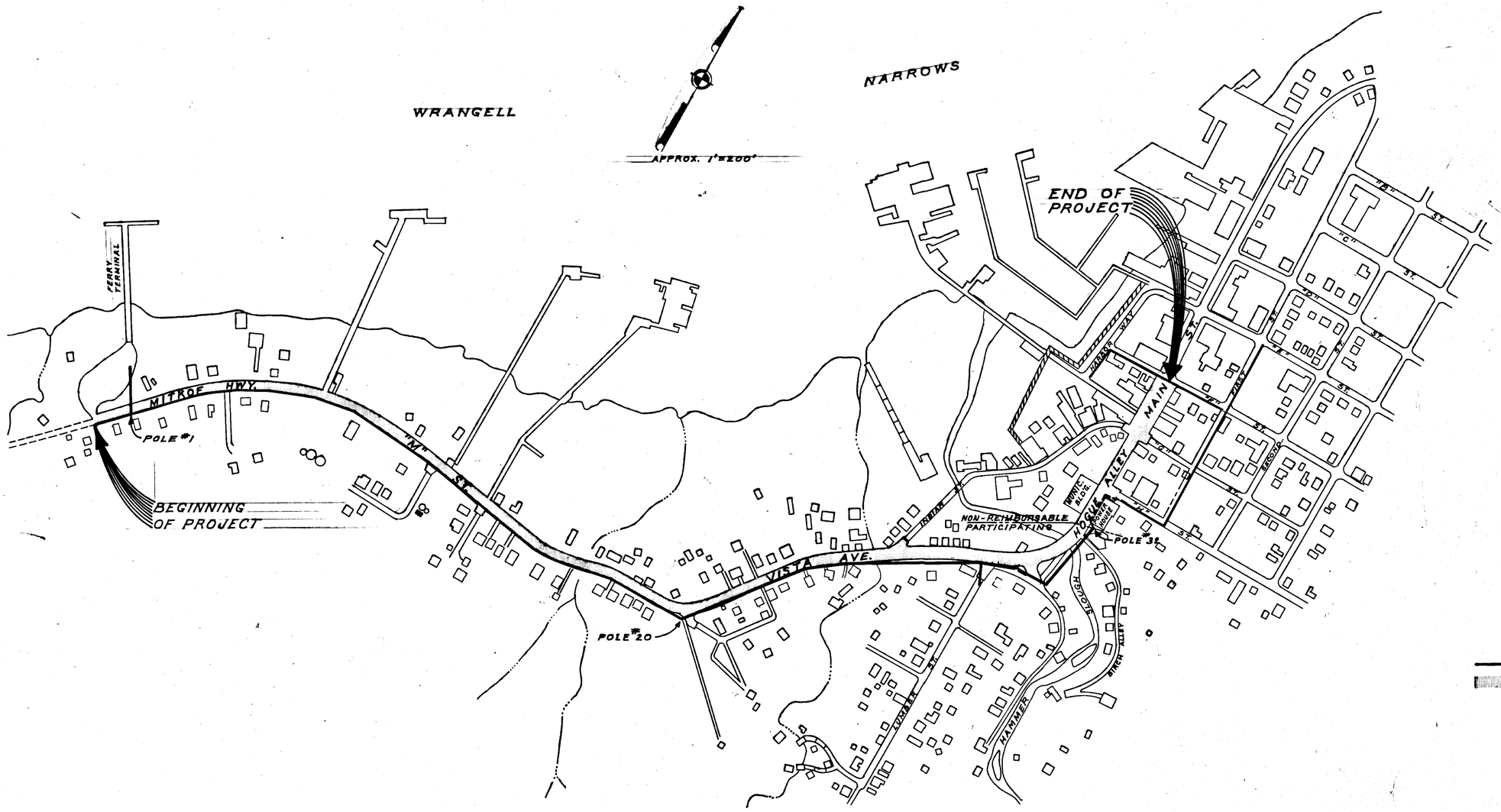
CORNELL HOWLAND HAYES & MERRYFIELD

CITY OF PETERSBURG
PETERSBURG, ALASKA
PETERSBURG THRU ROUTE – PHASE I
ALASKA DEPT. OF HWYS. PROJ. S-0937(10)

POLE LINE RELOCATION
RETIREMENT

DES SAL	SHEET 7
DR RRB	OF 7
CK	DATE: APRIL 1973
RN: C7699.1	SCALE: AS SHOWN
DRAWING NO.	C7699-2

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	127	175



RELOCATED TELEPHONE LINE

LEGEND

- RELOCATED TELEPHONE LINES
- HIGHWAY PROJECT

REGISTERED PROFESSIONAL ENGINEER 4905 OREGON NOV. 16, 1965 SAMUEL A. LEWIS

STATE OF ALASKA 49TH No. 1119-E REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REVISION	BY	APD.
1	JUNE '73	ENGD NON-REIMB & PART DIV. LINE LOCATION	RRB	ALH

CH2M HILL
ENGINEERS PLANNERS ECONOMISTS

CORNELL HOWLAND HAYES & MERRYFIELD

GENERAL TELEPHONE CO. OF ALASKA
PETERSBURG, ALASKA
PETERSBURG THRU ROUTE - PHASE I
ALASKA DEPT. OF HWYS. PROJ. S-0937(10)

TELEPHONE PROJECT MAP AND DRAWING INDEX

DES. SAL	SHEET 1
DR RRB	OF 14
CK ALH	DATE: APRIL 1973
RN C7743.1	SCALE: AS SHOWN
DRAWING NO. C7743-1	

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	128	175

TO FERRY TERMINAL

6 PR.N

R/W LINE

R/W LINE

1 PR.N

POLE SP2 "A"

4"x4" POST

POLE SP3 "A"

STA. "0" 9+53

STA. "0" 12+81

1 PR.N

STA. "0" 12+38.5

MITKOF HIGHWAY

R.A. TERM. TYPE 200 MBY (EXISTING)

POLE #1

100 PR.T

R.A. Term

100 PR.T

R.A. TERM. TYPE 200 MB (EXIST.)

MATCH LINE - 0+44.40

100 PR.

100 PR.T

1 PR.T

1 PR.N

2-1 PR.N

R/W LINE

POLE #2 R/W LINE

POLE #3

1 PR.N

1 PR.N

1 PR.T

100 PR.T

BAKER STREET

NOTE:
BEGIN PROJECT @ "0" 9+24

NOTE:
STATIONING SHOWN ON PROFILE IS FOR CENTER LINE OF HIGHWAY

SCALE:
HORIZ. 1" = 20'
VERT. 1" = 10'

LEGEND

- NEW POLE
- EXISTING POLE – REUSED
- EXISTING POLE – RETIRED
- OVERHEAD TELEPHONE CABLE – MAIN
- OVERHEAD TELEPHONE CABLE – SERVICE
- UNDERGROUND CONDUIT WITH CABLE AS NOTED
- OVERHEAD GUY
- DOWN GUY AND ANCHOR
- VAULT AND NO.
- N NEW
- T TRANSFER
- READY ACCESS TERMINAL

EXISTING

EXISTING

POWER

POWER

EXIST. TELCO T

TELCO 2-1 PR. N

TELCO 100 PR. T

TELCO 100 PR. T

TELCO 100 PR. T

16 1/2'

12 1/2'

STA. 14+70

30

20

STA. 9+18

POLE #1

POLE #2

POLE #3

43°45' RT.
STA. 11+08.5

4 3°30'
STA 13+95

REGISTERED PROFESSIONAL ENGINEER
OREGON
4805
Samuel A. Lewis
NOV. 16, 1967
SAMUEL A. LEWIS

STATE OF ALASKA
49TH
No. 1119-E
REGISTERED PROFESSIONAL ENGINEER

CH2M HILL
ENGINEERS PLANNERS ECONOMISTS

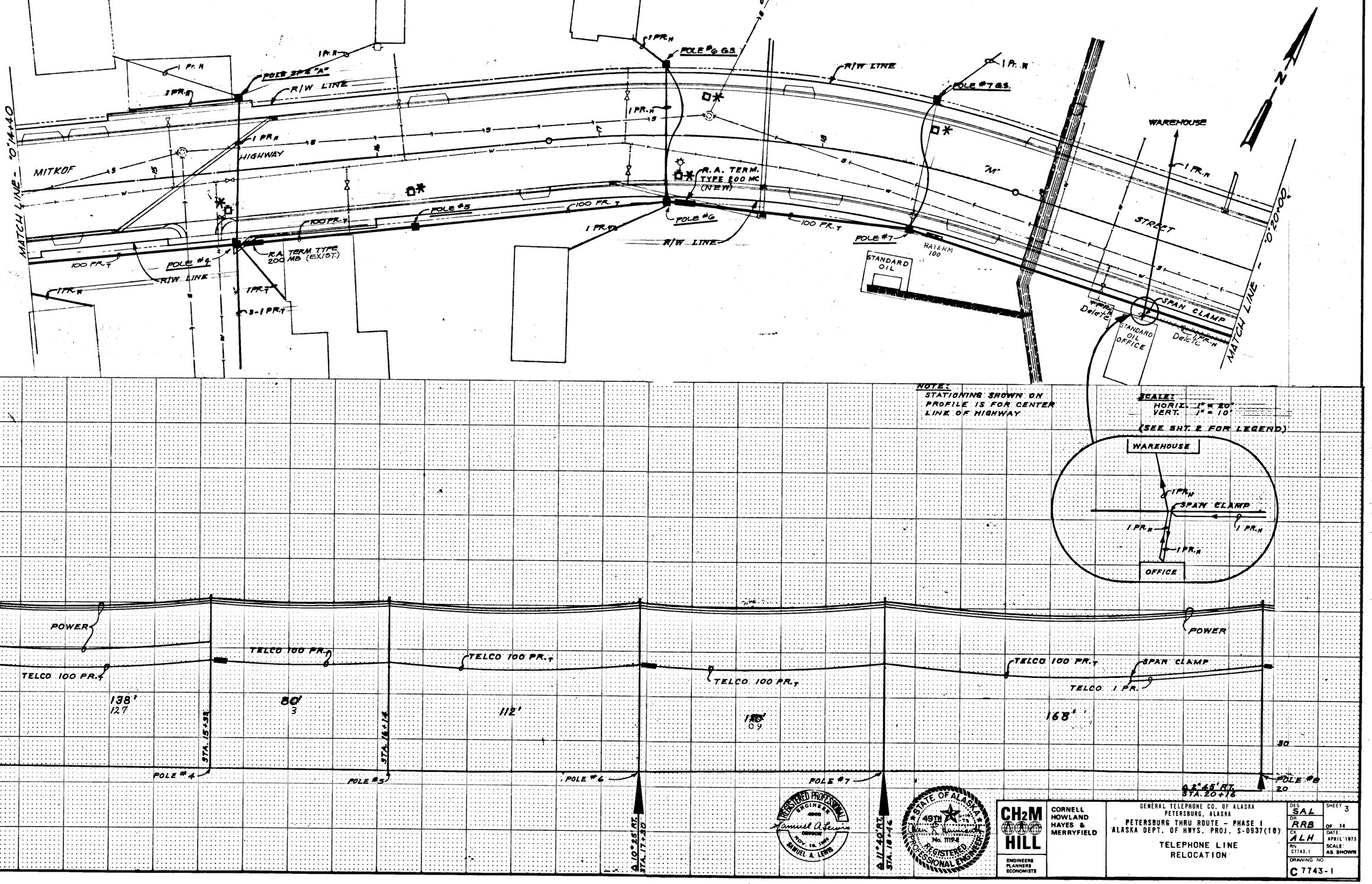
CORNELL HOWLAND HAYES & MERRYFIELD

GENERAL TELEPHONE CO. OF ALASKA
PETERSBURG, ALASKA
PETERSBURG THRU ROUTE – PHASE I
ALASKA DEPT. OF HWYS. PROJ. S-0937(10)

TELEPHONE LINE RELOCATION

DES.	SAL
DR.	RRB
CK.	ALH
RN	07743.1
SHEET	2
OF	14
DATE:	APRIL 1973
SCALE:	AS SHOWN
DRAWING NO.	C 7743-1

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	129	175



REGISTERED PROFESSIONAL ENGINEER — OREGON — SAMUEL A. LEWIS — NOV. 16, 1972

STATE OF ALASKA — 49TH — REGISTERED PROFESSIONAL ENGINEER — No. 11194

CH2M HILL — ENGINEERS PLANNERS ECONOMISTS

CORNELL HOWLAND HAYES & MERRYFIELD

GENERAL TELEPHONE CO. OF ALASKA
PETERSBURG, ALASKA
PETERSBURG THRU ROUTE - PHASE I
ALASKA DEPT. OF HWYS. PROJ. S-0937(10)

TELEPHONE LINE RELOCATION

DES	SAL	SHEET	3
DR	RRB	OF	14
CK	ALH	DATE	APRIL 1973
RN	C7743.1	SCALE	AS SHOWN
DRAWING NO.	C 7743-1		

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	130	175

N

R/W LINE

AVENUE

POLE #9 G.S.

"M" STREET

R.A. TERM. TYPE 200 MB (EXISTING)

R.A. TERM. TYPE 200 MBT (NEW)

R.A. TERM. TYPE 200 MBT (EXIST.)

POLE #8

POLE #9

POLE #10

POLE #11

POLE #12

100 PR.T

1 PR.N

2-1 PR.T

4 PR.N Delete

2 PR.N

6 PR.N

SP. #11 "A"

30/5 Wood Pole added

EXIST. WIRE T 4-1 PR.

2 PR.N Deleted

4 PR.N Delete

SEVENTH

SIXTH

R.A. TERM. TYPE 100 MB (NEW)

R.A. TERM. TYPE 200 MB (EXISTING)

SP. #12 "A"

1 PR.N

25

MATCH LINE - STA. 20+00

MATCH LINE - STA. 24+00

POWER

TELCO 100 PR.T

TELCO 1 PR.N

161'

96'

98'

129'

123'

STA. 22+84

STA. 23+81

STA. 25+11

POLE #9

POLE #10

POLE #11

POLE #12

Δ 14°18' Rt

STA. 21+64

30

20

SCALE:
HORIZ. 1" = 20'
VERT. 1" = 10'

(SEE SHT. 2 FOR LEGEND)

NOTE:
STATIONING SHOWN ON PROFILE IS FOR CENTER LINE OF HIGHWAY

NO.	DATE	REVISION	BY	APD.
1	JUNE '73	ADDED DESIGNATION R.A. TERM. POLE #11A	RRB	ALH

REGISTERED PROFESSIONAL ENGINEER — Lammel A. Lewis — OREGON — NOV. 18, 1971 — SAMUEL A. LEWIS

STATE OF ALASKA — 49TH — Dan R. Hummel — No. 8192 — REGISTERED PROFESSIONAL ENGINEER

CH2M HILL — ENGINEERS PLANNERS ECONOMISTS

CORNELL HOWLAND HAYES & MERRYFIELD

GENERAL TELEPHONE CO. OF ALASKA
PETERSBURG, ALASKA
PETERSBURG THRU ROUTE - PHASE I
ALASKA DEPT. OF HWYS. PROJ. S-0937(10)

TELEPHONE LINE RELOCATION

DES.	SAL
DR	RRB
CK	ALH
RN	C7743.1
DRAWING NO.	C 7743-1
SHEET	4
OF	14
DATE:	APRIL 1973
SCALE:	AS SHOWN

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	131	175

MATCH LINE - 12+26.00

25 PR.-N FIG. 8 CABLE BY OWNER

AVENUE

Deleted

1 PR. N

POLE SPIKE "A"

R/W LINE

1 PR.-N

Deleted

R.A. TERM. TYPE 200 MBY (NEW)

100 PR.-T

POLE #13

1 PR.-T

200 PR. (NEW)

3-1 PR.-N Deleted

POLE #14

R/W LINE

6-1 PR.-T

FIFTH

AVENUE

51

1 PR.-N

1 PR.-N

SPAN CLAMP

1-3 PR.-N

SPAN CLAMP

1-3 PR.-N

FOURTH AVENUE

R/W LINE

R.A. TERM. TYPE 200 MB (NEW)

200 PR. (NEW)

200 PR. (NEW)

POLE #15

1 PR.-N

1 PR.-N

POLE #16

200 PR. (NEW)

R/W LINE

THIRD AVENUE

MATCH LINE - 25+16.00

N

SCALE:
HORIZ. 1" = 20'
VERT. 1" = 10'

(SEE SHT. 2 FOR LEGEND)

NOTE:
STATIONING SHOWN ON PROFILE IS FOR CENTER LINE OF HIGHWAY

POWER

TELCO 100 PR.-T

TELCO 200 PR.-N

TELCO 3-1 PR.-N

SPAN CLAMP

TELCO 200 PR.-N

TELCO 3-1 PR.-N

TELCO 200 PR.-N

TELCO 1 PR.-N

POWER

TELCO 200 PR.-N

158'

158'

125'

128'

STA. 26+34

POLE #13

POLE #14

POLE #15

POLE #16

Δ 5° 50' LT.
STA. 27+90

Δ 12° 25' LT.
STA. 29+32

Δ 6° 30' LT.
STA. 30+55

NO.	DATE	REVISION	BY	APD.
1	JUNE	ADDED ROUTE "B" "75" OWNER	RRB	ALH

REGISTERED PROFESSIONAL ENGINEER
Samuel A. Lewis
NOV 16 1973
SAMUEL A. LEWIS

STATE OF ALASKA
49TH
No. 4926
REGISTERED PROFESSIONAL ENGINEER

CH2M HILL
ENGINEERS PLANNERS ECONOMISTS

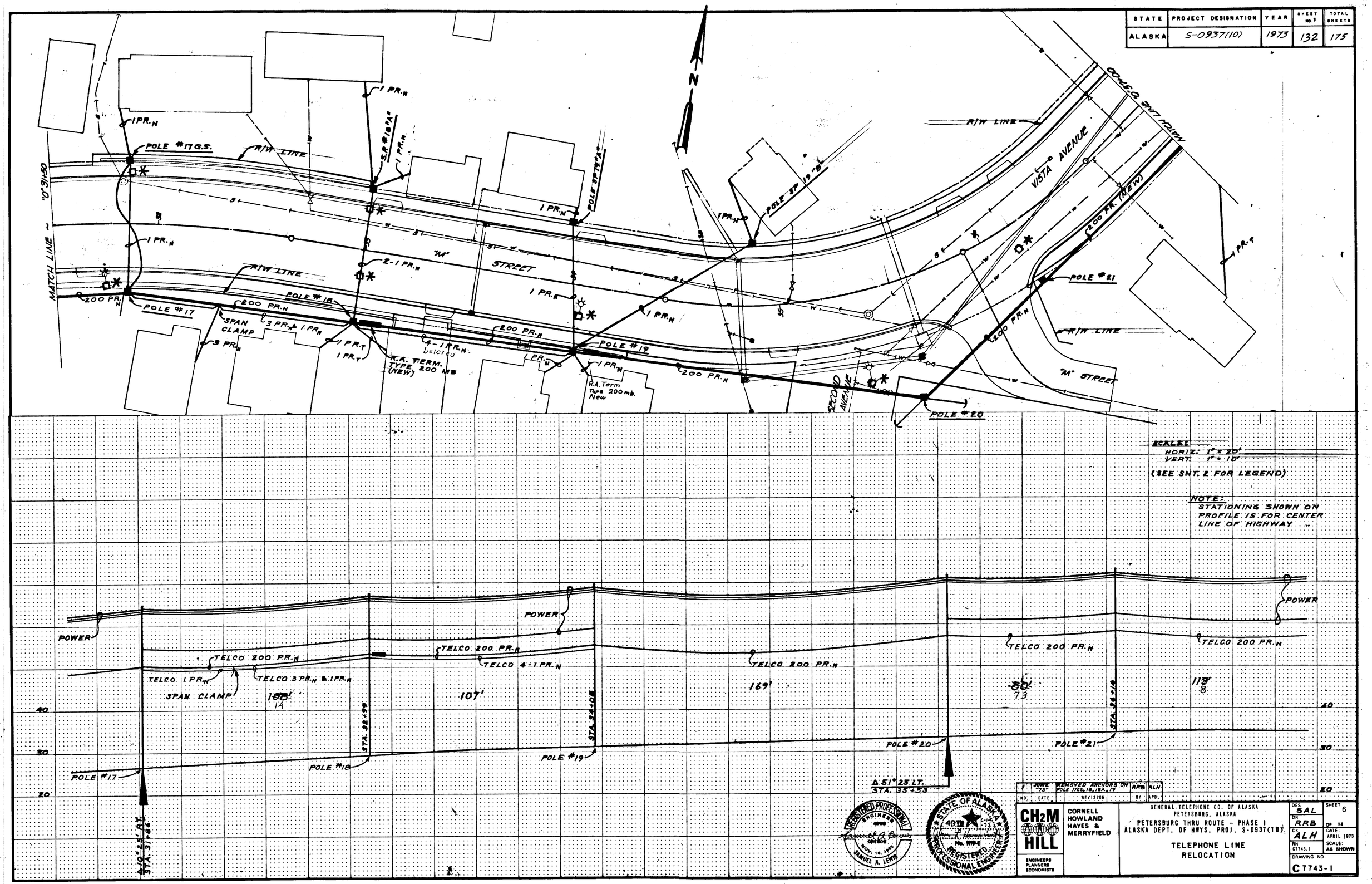
CORNELL HOWLAND HAYES & MERRYFIELD

GENERAL TELEPHONE CO. OF ALASKA
PETERSBURG, ALASKA
PETERSBURG THRU ROUTE - PHASE I
ALASKA DEPT. OF HWYS. PROJ. S-0937(10)

TELEPHONE LINE RELOCATION

DES.	SAL	SHEET	5
DR.	RRB	OF	14
CK.	ALH	DATE:	APRIL 1973
RN.	C7743.1	SCALE:	AS SHOWN
DRAWING NO.	C 7743-1		

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	132	175



NO.	DATE	REVISION	BY	APP.
1	JUNE '73	REMOVED ANCHORS ON POLE 17G, 18, 18A, 19	RRB	ALH

REGISTERED PROFESSIONAL ENGINEER — OREGON — NOV. 16, 1965 — SAMUEL A. LEWIS

STATE OF ALASKA — 49TH — No. 999-E — REGISTERED PROFESSIONAL ENGINEER

CH2M HILL — ENGINEERS PLANNERS ECONOMISTS

CORNELL HOWLAND HAYES & MERRYFIELD

GENERAL TELEPHONE CO. OF ALASKA
PETERSBURG, ALASKA
PETERSBURG THRU ROUTE - PHASE I
ALASKA DEPT. OF HWYS. PROJ. S-0937(10)

TELEPHONE LINE RELOCATION

DES.	SAL	SHEET	6
DR.	RRB	OF	14
CK.	ALH	DATE:	APRIL 1973
RN	07743.1	SCALE:	AS SHOWN

DRAWING NO. C 7743-1

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	133	175

SR #23 "A"

1 PR.N

1 PR.T

2-1 PR.N

2-3P #22 "A"

POLE SP 22 "B"

R/W LINE

R.A. TERM. TYPE 100 MC (NEW)

1-6 PR.N

R.A. TERM. TYPE 200 MB (NEW)

200 PR.N

POLE #22

POLE #23

POLE #24

POLE #25

POLE #2A G.S.

R.A. TERM. TYPE 100 MC.

VISTA AVENUE

Installed Alley Arms

R.A. TERM. TYPE 200 MB (NEW)

2-1 PR.T

200 PR.N

MATCH LINE - STA 0+00

MATCH LINE - STA 43+00

SCALE:
HORIZ. 1" = 20'
VERT. 1" = 10'

(SEE SHT. 2 FOR LEGEND)

NOTE:
STATIONING SHOWN ON PROFILE IS FOR CENTER LINE OF HIGHWAY

POWER

TELCO 200 PR.N

155'

188'
95

132'
44

175'

STA. 37+22

STA. 38+77

STA. 40+71

Δ 13° 10' RT.

Δ 9° 30' RT.

STA. 42+16

40

30

20

REGISTERED PROFESSIONAL ENGINEER
OREGON
NOV. 19, 1967
SAMUEL A. LEWIS

STATE OF ALASKA
99TH
ALAN F. HUMMEL
No. 1119-E
REGISTERED PROFESSIONAL ENGINEER

CH2M HILL
ENGINEERS PLANNERS ECONOMISTS

CORNELL HOWLAND HAYES & MERRYFIELD

GENERAL TELEPHONE CO. OF ALASKA
PETERSBURG, ALASKA
PETERSBURG THRU ROUTE – PHASE I
ALASKA DEPT. OF HWYS. PROJ. S-0937(10)

TELEPHONE LINE RELOCATION

DES	SAL
DR	RRB
CK	ALH
RN	C7743.1
SHEET	7 OF 14
DATE	APRIL 1973
SCALE:	AS SHOWN
DRAWING NO.	C 7743-1

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	134	175

MATCH LINE - 243+00

INDIAN ST. POLE #1 G.S.

STREET

EXIST. WIRE R.A. TERM. TYPE 100 MB (NEW)

INDIAN ST. POLE #1

INDIAN

POLE SP #26 "A"

1 PR.N

6 PR.N

R/W LINE

VISTA AVENUE

2-1 PR.N

R.A. TERM. TYPE 200 MBY (NEW)

200 PR.N

POLE #26

R.A. TERM. Type 200

POLE #27

1 PR.T

DOG

SP 28 "A"

R.A. TERM. TYPE 200 MB (NEW)

POLE #28

POLE #29 G.S.

POLE #25

LUMBER STREET

R.A. TERM. TYPE 200 MBY (NEW)

300 PR.N

POLE #30

MATCH LINE - 440+00

TRANFER EXISTING 50 PR.

POLE 29R1

SCALES HORIZ. 1"=20' VERT. 1"=10'

(SEE SHT. 2 FOR LEGEND)

NOTE: STATIONING SHOWN ON PROFILE IS FOR CENTER LINE OF HIGHWAY.

POWER

TELCO 200 PR.N

TELCO 2-1 PR.N

TELCO 300 PR.N

17 A

12 9

13 8

8 7

16 A

STA. 43+20

STA. 46+43

STA. 48+58

Δ 2° 20' RT. STA. 45+18

Δ 39° 54' RT. STA. 47+37

30

20

REGISTERED PROFESSIONAL ENGINEER — SAMUEL A. LEWIS — NOV. 18, 1981

STATE OF ALASKA — 49TH — No. 11192 — REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REVISION	BY	APP.
1	JUNE '75	ADDED POLE 26 "A" CHANGED SERVICES	RRB	ALH

CH2M HILL — ENGINEERS PLANNERS ECONOMISTS

CORNELL HOWLAND HAYES & MERRYFIELD

GENERAL TELEPHONE CO. OF ALASKA
PETERSBURG, ALASKA
PETERSBURG THRU ROUTE - PHASE I
ALASKA DEPT. OF HWYS. PROJ. S-0937(10)

TELEPHONE LINE RELOCATION

DES.	SAL
DR.	RRB
CK.	ALH
RN.	C7743.1
SHEET	8 OF 14
DATE:	APRIL 1973
SCALE:	AS SHOWN
DRAWING NO.	C 7743-1

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	135	175

HAMMER SLOUGH

MUNICIPAL BUILDING

FEDERAL BUILDING

MATCH LINE "F"

MATCH LINE - STA. 10+55.00

R/W LINE

ALLEY

HOGUE

"N" STREET

VISTA AVENUE

BIRCH ALLEY

POLE #30

MATCH LINE

POLE #31

POLE #31 G.S.

POLE #32

POLE 32LI

R.A. TERM. Deleted
TYPE 100 MC (NEW)

R.A. TERM.
TYPE 200 MBT
(NEW)

R.A. TERM.
TYPE 100 MC
(NEW)

POLE 31RI
(EXIST)

1-6PR.N

1-4PR.N

1-2PR.N
Deleted

300 PR.N

50 PR.
2-2"C

25 PR., 2-2"C

TELEPHONE CONDUIT TO BE BURIED IN SAME TRENCH AS POWER CONDUIT

POWER VAULT #1

POWER VAULT #2

300 PR.
2-4"C

NON-REIMBURSABLE
* PARTICIPATING

TELEPHONE VAULT #1
SEE SHT. 14

2-4" Conduit
25 Pair

2-4" Conduit
N 300 pair Underground

SPLICE CASE
TYPE 21C1 (NEW)

300 PR.

300 PR.

50 PR.

50 PR. TO
MUNICIPAL BLDG.

25 PR. TO R.H.

25 PR. TO
BIRCH ALLEY

SPLICE CASE
TYPE 21C1 (NEW)

VAULT #1
SPLICE

SCALES
HORIZ. 1" = 20'
VERT. 1" = 10'

(SEE SHT. 2 FOR LEGEND)

NOTE:
STATIONING SHOWN ON PROFILE IS FOR CENTER LINE OF HIGHWAY.

* PARTICIPATING INCLUDES R.A. TERM. AT POLE 32 BUT NOT THE SPLICE.

REPEAT

TELCO 1-6PR.N

TELCO 300 PR.N

TELCO 300 PR.N

POWER

TELCO RISER

TELCO VAULT #1

POLE #31

POLE #32

127'

254'
65

Δ 37° 10' LT
STA. 49+95

STA. 52+00

30

20

10

REGISTERED PROFESSIONAL ENGINEER
Samuel A. Lewis
NOV. 19, 1969
SAMUEL A. LEWIS

STATE OF ALASKA
49TH
No. 1119-E
REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REVISION	BY	APD.
1	JUNE '73	CHGD LOC. OF PART. & NON-REIM. DIV. LINE	ARB	ALH

CH2M HILL
ENGINEERS PLANNERS ECONOMISTS

CORNELL HOWLAND HAYES & MERRYFIELD

GENERAL TELEPHONE CO. OF ALASKA
PETERSBURG, ALASKA
PETERSBURG THRU ROUTE - PHASE I
ALASKA DEPT. OF HWYS. PROJ. S-0937(10)

TELEPHONE LINE RELOCATION

DES. SAL
DR. RRB
CK. ALH
RN. C7743.1

SHEET 9 OF 14
DATE: APRIL, 1973
SCALE: AS SHOWN

DRAWING NO. C 7743-1

STATE	PROJECT DESIGNATION	YEAR	SHEET No.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	136	175

MATCH LINE "D" (STA. "A" 0+86)

MATCH LINE "A" (0+63)

ALLEY

HOGUE

MATCH LINE "F" (STA. "H" 1+02)

"H" STREET

STREET

FIRST

SECOND

TO POLE 1-1

R/W LINE

"0" 1 2 3 4 5

STA. "H" 2+70

STA. "H" 5+15

POLE #H2

POLE #H3

POLE #H4 RISER POLE

POLE #H5

POWER VAULT #2

25 PR.T TO FED. BLDG. ATTACH TO EXIST. CONDUIT 2" PVC.

300 PR. 2-4"C

4" PVC Main

4" PVC - Perf.

300 PR.N (O.H.)

R.A. TERM. TYPE 200 MB (NEW)

25 PRT

1 PR.N

TERMINATE EXIST. 25 PR. (O.H.) EXIST R.A. TERM. 200 M.B.

2 PR.T

9R H5 "A"

1 PR.T

10'-0" MAX.

TELEPHONE VAULT #2 (SEE SHT. 14 FOR CONDUIT ARRANGEMENT

300 PR. (NEW)

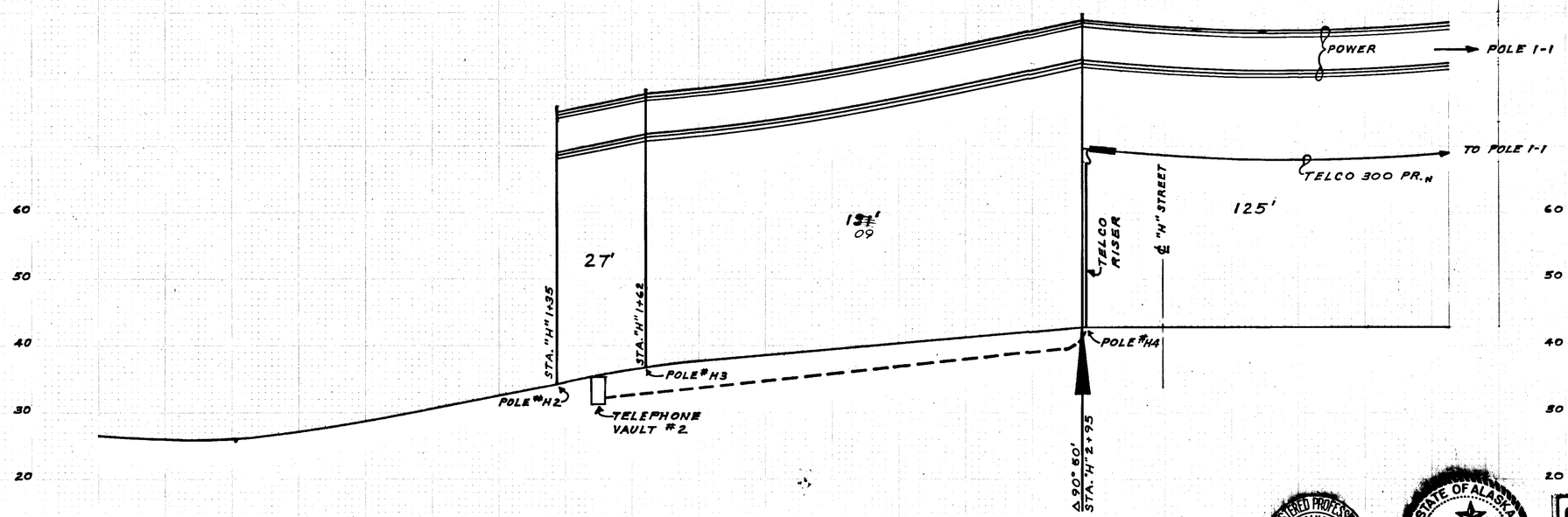
SPLICE CASE TYPE 21C1 (NEW)

25 PR.T TO FEDERAL BLDG.

VAULT #2 SPLICE

SCALES:
HORIZ. 1" = 20'
VERT. 1" = 10'

(SEE SHT. 2 FOR LEGEND)



NOTE:
STATIONING SHOWN ON PROFILE IS FOR CENTER LINE ON STREET

REGISTERED PROFESSIONAL ENGINEER — OREGON — NOV. 16, 1965 — SAMUEL A. LEWIS

STATE OF ALASKA — 49TH — No. 1119-E — REGISTERED PROFESSIONAL ENGINEER

CH2M HILL — ENGINEERS PLANNERS ECONOMISTS

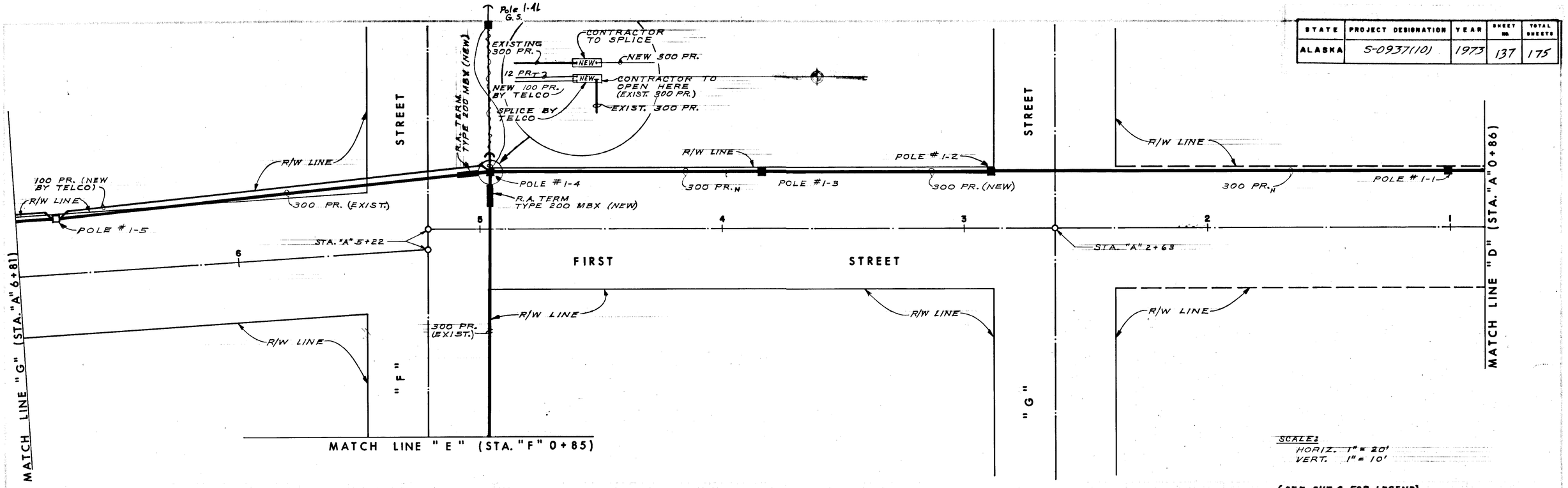
CORNELL HOWLAND HAYES & MERRYFIELD

GENERAL TELEPHONE CO. OF ALASKA
PETERSBURG, ALASKA
PETERSBURG THRU ROUTE - PHASE I
ALASKA DEPT. OF HWYS. PROJ. S-0937(10)

TELEPHONE LINE RELOCATION

DES. SAL	SHEET 10		
DR. RRB	OF 14		
CK. ALH	DATE: APRIL 1973		
RV. C7743.1	SCALE: AS SHOWN		
DRAWING NO. C 7743-1			

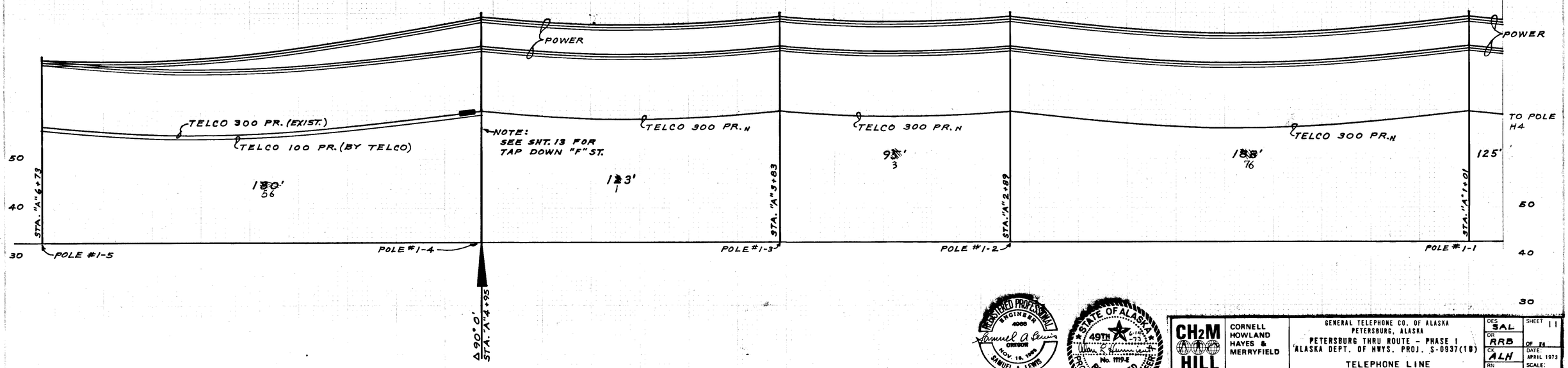
STATE	PROJECT DESIGNATION	YEAR	SHEET No.	TOTAL SHEETS
ALASKA	S-0937(10)	1973	137	175



SCALE:
HORIZ. 1" = 20'
VERT. 1" = 10'

(SEE SHT. 2 FOR LEGEND)

NOTE:
STATIONING SHOWN ON PROFILE IS FOR CENTER LINE OF STREET.



CH2M HILL
ENGINEERS PLANNERS ECONOMISTS
CORNELL HOWLAND HAYES & MERRYFIELD

GENERAL TELEPHONE CO. OF ALASKA
PETERSBURG, ALASKA
PETERSBURG THRU ROUTE - PHASE I
ALASKA DEPT. OF HWYS. PROJ. S-0937(10)

TELEPHONE LINE RELOCATION

DES. SAL	SHEET 11		
DR. RRB	OF 24		
CK. ALH	DATE: APRIL 1973		
RN C7743.1	SCALE: AS SHOWN		
DRAWING NO. C 7743-1			

REGISTERED PROFESSIONAL ENGINEER — SAMUEL A. LEWIS — OREGON — NOV 16, 1969

STATE OF ALASKA — 49TH — REGISTERED PROFESSIONAL ENGINEER — No. 1119-E

Missing pages 13,15,17,73-81 and 138-175.