STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0970-(2)		1964	1	25

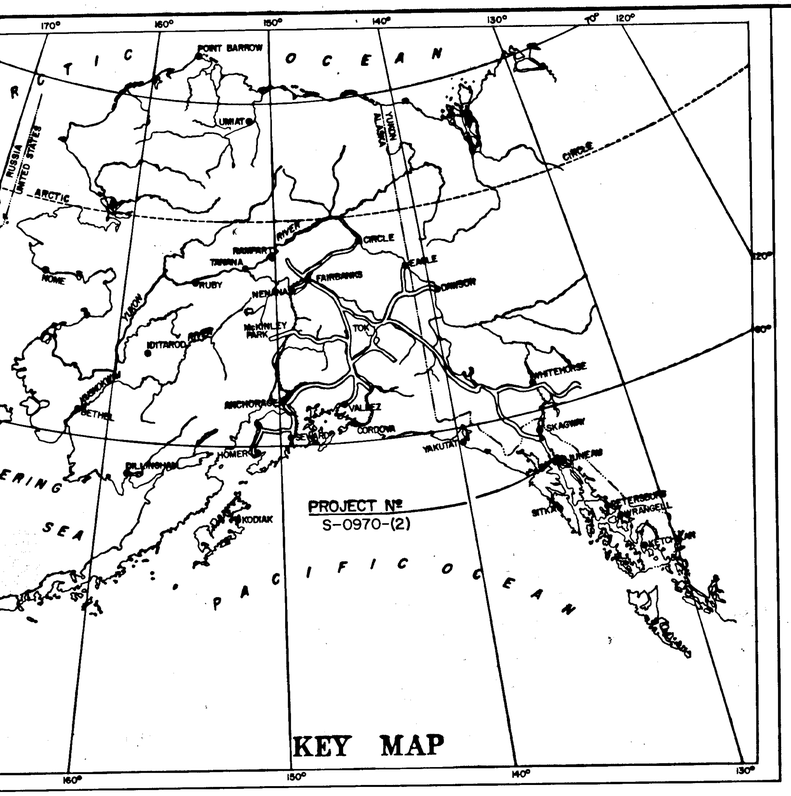
TYPE 3210 IMPROVEMENT

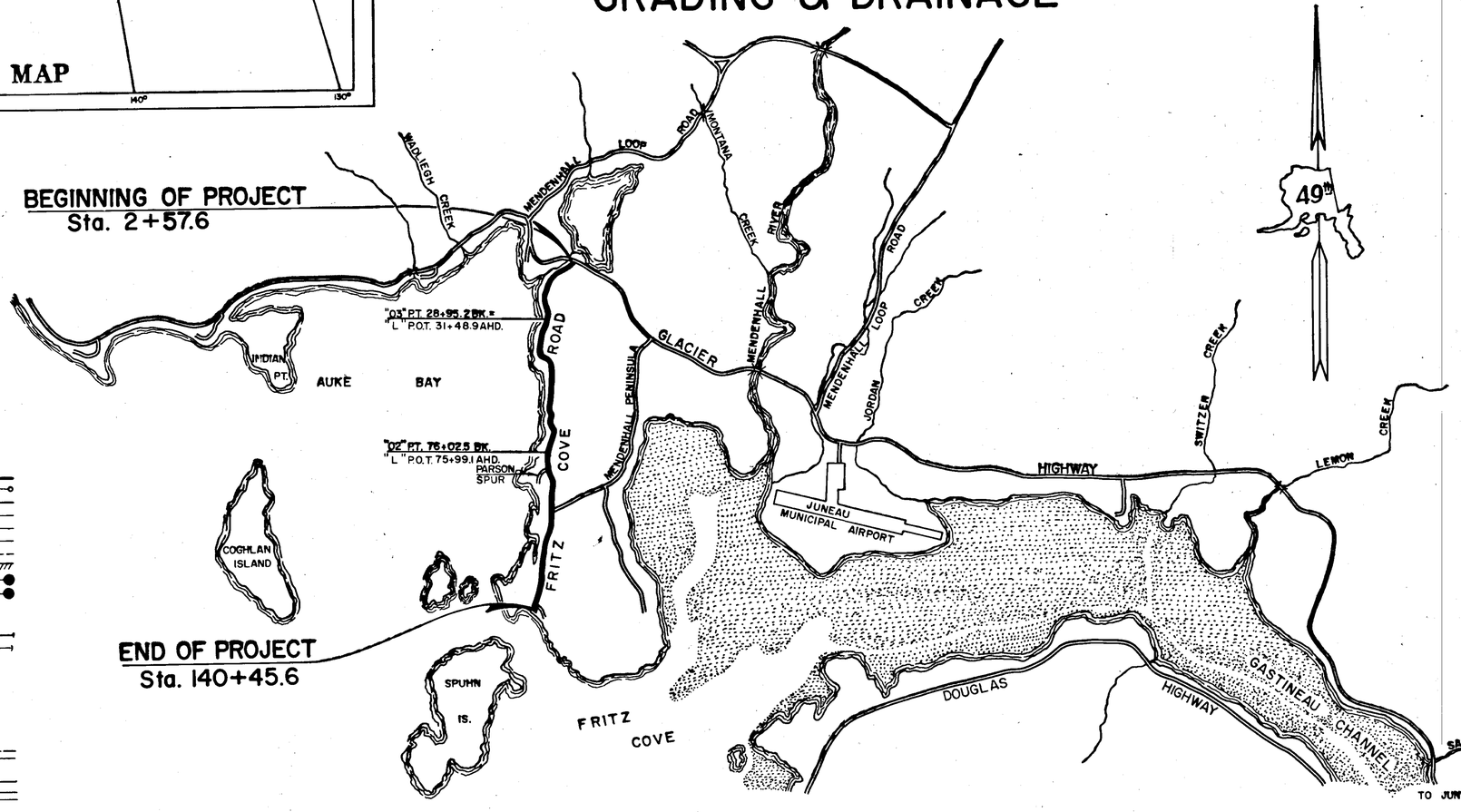
STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

PLAN AND PROFILE
PROPOSED HIGHWAY PROJECT

S-0970-(2)

GLACIER HIGHWAY
FRITZ COVE ROAD
GRADING & DRAINAGE





CONVENTIONAL SIGNS

- PROPOSED CONSTRUCTION CENTERLINE
- PRELIMINARY SURVEY LINE
- TOWNSHIP LINE
- SECTION LINE
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- EASEMENT LINE
- CORPORATED OR CITY LIMITS
- POWER LINE (EXISTING) — E — E —
- TELEPHONE OR TELEGRAPH LINE (EXIST) — T — T —
- POLE ANCHOR
- LIGHT POLE
- WATER LINE
- SEWER LINE
- VALVE BOX
- CATCH BASIN
- DROP INLET
- MANHOLE
- CULVERT PROPOSED
- CULVERT EXISTING
- FIRE HYDRANT
- TRAVELED WAY
- SWAMP
- FENCE — X — X — X —
- CURB CUT
- LAND MONUMENT
- CENTER LINE MONUMENT

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	TYPICAL SECTION & MISC. DETAILS
3	PIT & MISC. DETAILS
4-13	PLAN & PROFILE SHEETS
14-18	CULVERT & MISC. WORK SHEETS
19	STANDARD BRASS CAP MONUMENT & MONUMENT CASE
20	SUMMERY OF STANDARD SIGNS
S-1	STANDARD CULVERTS
S-6	STANDARD PROJECT IDENTIFICATION SIGN
S-8	STANDARD BEAM GUARD RAIL
S-13	STANDARD CULVERT MARKER POST
S-19	STANDARD SUPERELEVATION

AS BUILT PLANS

Contractor - STOCK & GROVE INC.
Proj. Engr. - L.E. SHEPARD
Began Proj. - 9-14-64
End Proj. - 7-9-66

DESIGN DESIGNATION
ADT(1960) = 230
ADT(1980) = 690
DHV = 83
D = 65%
T = 5%
V = 40mph

PROJECT SUMMARY

WIDTH OF SUBGRADE	28'	
WIDTH OF SURFACING	24'	
LENGTH OF GRADING	13,537.7 =	2.564 Mi.
LENGTH OF SURFACING	13,537.7 =	2.564 Mi.
LENGTH OF PROJECT	13,537.7 =	2.564 Mi.

No Change

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

APPROVED _____ Date 7/6/64
COMMISSIONER OF HIGHWAYS

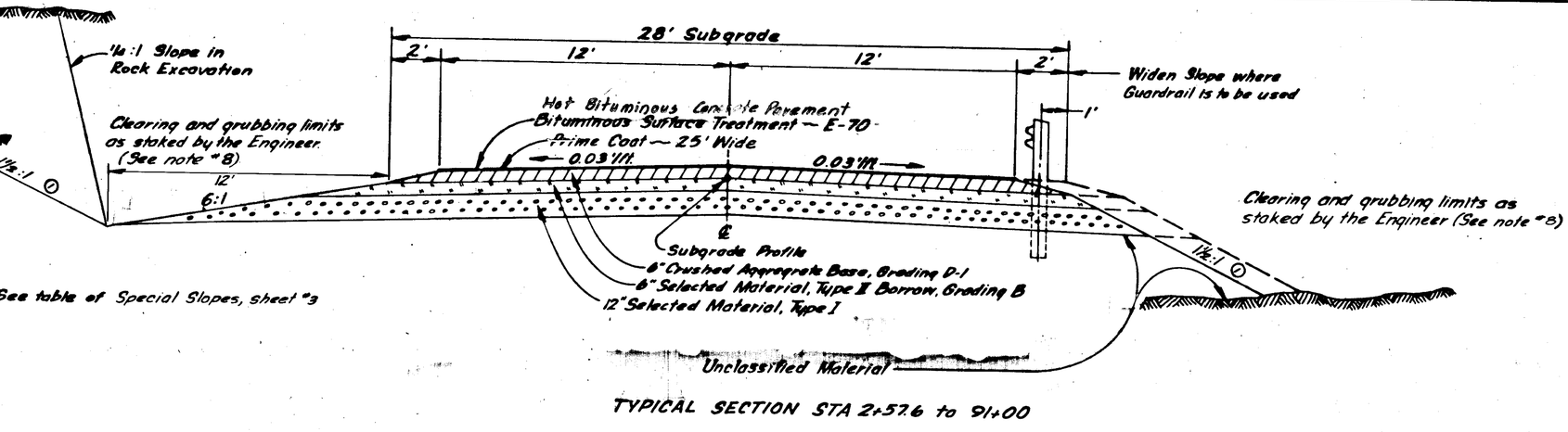
APPROVED

_____ Date: _____
REGIONAL ENGINEER
BUREAU OF PUBLIC ROADS
REGION TEN

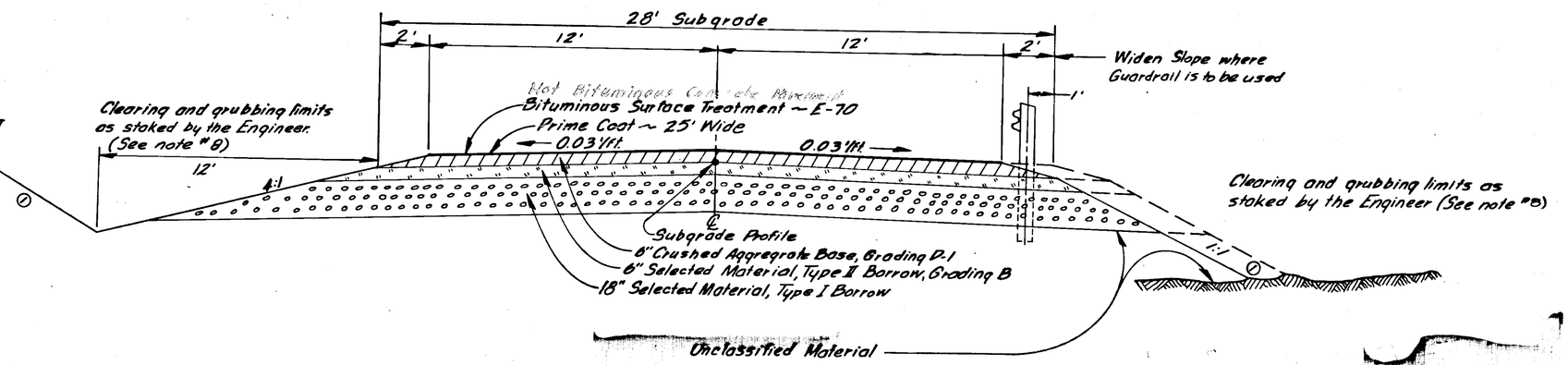
As Builts entered 1-3-68 by K. Ward

REVISIONS		
No.	Date	Description

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOT. SHEE
ALASKA	S-0970(2)	1964	2	25



TYPICAL SECTION STA 2+57.6 to 91+00



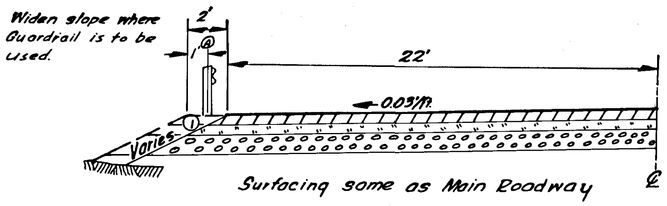
TYPICAL SECTION STA. 91+00 to 140+45.6

ESTIMATE OF QUANITIES

ITEM NO	QUANITIES	UNIT	ITEM
10	All Req'd.	LumpSum	Misc. Force Account Work As Authorized under articles 9.1 & 9.5
100(5)	All Req'd.	LumpSum	Clearing and Grubbing
102(1)	122,000	Cu. Yd.	Unclassified Excavation
102(T1)	15,000	Ton	Selected Material, Type I Borrow, Case 2
102(T2)	18,200	Ton	Selected Material, TypeII Borrow, Case2, Grading B
103(1)	313	Cu. Yd.	Excavation for Structures
105(2)	24,600	Yd-Mi.	Overhaul (2000' Free haul)
200(4)	13,750	Ton	Crushed Aggregate Base, Grading D-1
310(3)	12,300	Gal.	Asphalt, Grade MC-70, Prime Coat
314(4)	1,370	Ton	Aggregate, Designation E-70, Bituminous Surface Treatment
314(15)	36,800	Gal.	Cationic Emulsified Asphalt, Grade RS-3K, Bituminous Surface Treatment
453(5A)	788	Lin. Ft.	8" Corrugated Metal Pipe
453(5E)	688	Lin. Ft.	18" Corrugated Metal Pipe
453(5G)	1304	Lin. Ft.	24" Corrugated Metal Pipe
457(1)	1147	Lin. Ft.	Removal of Culverts
560(3)	60	Each	Culvert Marker Posts
560(5)	42	Each	Brass Cap Monument
561(1)	42	Each	Monument Case
583(1)	3512.5	Lin. Ft.	Beam-Type Guardrail
584(1)	5	Each	Standard Signs
608(2)	6,550	Sq. Yd.	6" Bituminous Concrete Paving
611(3)	9,300	Gal.	Asphalt Cement, Grade 120-150 penetration
700(2)	All Req'd.	Lump Sum	Site Improvements

GENERAL NOTES

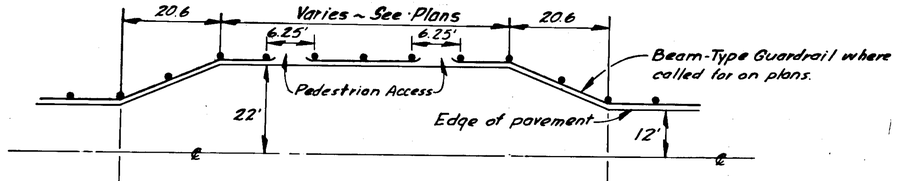
1. Culvert lengths are approximate only and are subject to minor revisions.
2. Grades and alignment shown on these plans are subject to minor revisions.
3. Waste quanities are approximate and are for estimate purposes only.
4. All utility poles within the construction limits will be moved by others.
5. All earthwork for approaches and cross roads is included in balances.
6. All surfacing depths are nominal.
7. Curve data for this project is based on the approximate 1° curve with a R= 5730.0'.
8. Clearing and Grubbing limits shall be 15' outside the Construction limits or to the R.O.W. line, which ever is less.
9. Miscellaneous and minor encroachments, such as existing fences, which fall within the right-of-way will be removed by the contractor and as directed by the engineer. No measurement will be made for this work and payment for such work will be considered as incidental to other items of work covered under Section 100.



Surfacing same as Main Roadway

TYPICAL SECTION PARKING AREA

Ⓐ 3' from: Sta. 37+79.4 to Sta 60+45.6 Rt.
Sta. 61+83.1 to Sta. 62+70.3 Rt.
Sta 122+25 to Sta 123+42.2 Rt.



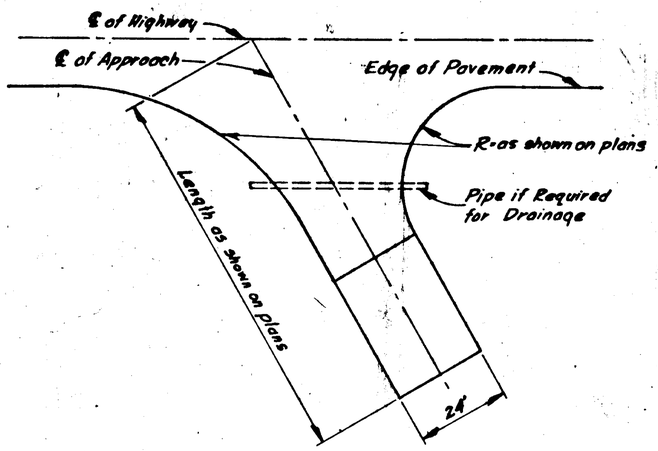
PLAN VIEW PARKING AREA

PEDESTRIAN ACCESS TABLE					
Sta.	Lt.	Rt.	Sta.	Lt.	Rt.
58+75		✓	62+35		✓
59+50		✓	122+39		✓
			123+09		✓

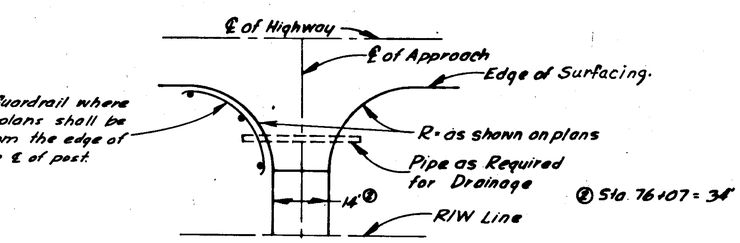
REVISIONS		
No.	Date	Description

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0970(2)	1964	3	25

TYPE 1 APPROACH



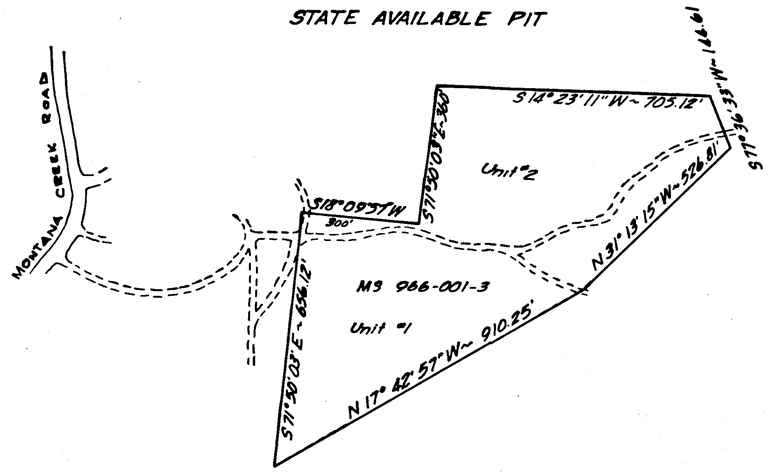
TYPE 2 APPROACH



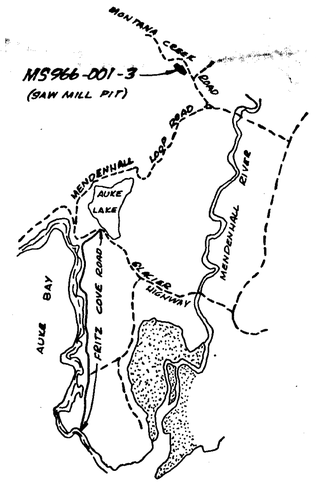
NOTES:

1. Type 1 & 2 Approaches shall be surfaced to the radius point with the same type and depth of material as specified for the roadway. Beyond the radius point the approaches shall be surfaced with 6" Type II Borrow and 12" Type I or as directed by Engineer.

STATE AVAILABLE PIT



M9 966-001-3
(Saw Mill Pit)



Pit Location Sketch

SPECIAL SLOPES

Station to Station	Slopes Left		Slopes Right		Remarks
	Shoulder Slope	Back Slope	Shoulder Slope	Back Slope	
3+00 - 3+75			2:1		
11+25 - 14+50			3:1		
14+50 - 18+75			4:1		
18+75 - 22+00	3:1				
26+75 - 27+50		1:1			
27+50 - 28+50			4:1		
28+50 - 28+80		1:1			
28+80 - 28+94			3:1		
31+50 - 49+75			2:1		
49+75 - 50+50	4:1				
51+50 - 52+50	" "		2:1		
52+50 - 54+00			4:1		
54+00 - 55+50		1:1			
62+50 - 63+25		1:1			
65+25 - 67+50					Daylight Rt.
67+50 - 68+20		1:1			
68+80 - 69+10		2:1			
69+80 - 69+80		½:1			
70+80 - 72+00					Daylight Rt.
72+00 - 73+50		2:1			
73+50 - 74+00		2:1	3:1		
74+00 - 74+75		2:1			
74+75 - 75+75		1:1			Daylight Rt.
75+75 - 77+75					
77+75 - 81+10		2:1	4:1		
81+10 - 82+50		2:1	2:1		
82+50 - 87+50		2:1	4:1		
87+50 - 89+50		1:1	4:1		
89+50 - 90+25			4:1		
90+25 - 90+75	4:1		2:1		
90+75 - 91+00	4:1		4:1		
95+50 - 96+25			1½:1		
100+50 - 102+50				2:1	
103+50 - 105+25		2:1			
106+50 - 108+50		2:1			
110+75 - 111+75		2:1			
112+50 - 114+50		2:1			
120+50 - 123+50		1½:1			
123+50 - 129+50		1½:1	3:1		
129+50 - 133+50		1½:1			

STATE	ROUTE	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0970 (2)	1964	4	25

REVISIONS		
No.	Date	Description
		AS BUILT

FISH & GAME ROAD
P.I. 0+92.0
Δ = 30°00' Lt.
T = 45.0'
L = 87.3'
R = 168.1'
P.C. 0+47.0
P.T. 1+34.3

"L"
Δ = 15°46'30" Lt.
D = 7°
T = 113.4'
L = 225.4'

"Z"
Δ = 28°08' Lt.
D = 8°
T = 179.5'
L = 351.7'

"O"
Δ = 33°04' Lt.
D = 8°00'
T = 212.6'
L = 413.3'
S = 0.05%

"O4"
Δ = 34°10'38" Lt.
D = 8°
T = 220.21'
L = 427.22'
S = 0.05%

Beginning of Project
Sta. 0+57.6

S 05°17' W

"L" P.C. 4+17.4

"L" P.T. 6+42.8

N 80° 43' W

"L" P.I. 5+30

S 84° 22' 08" W
S 54° 17' W — 682.8

"O" P.C. 9+40.4
"O" P.C. 9+53.85

"Z" P.C. 10+29.3

"O4" P.T. 13+53.7
"L" P.T. 13+77 Bk.
13+46.1 Ahd.
"O4" P.C. 13+77.57

Line

Match

Auke Creek

S 81° 17' W

3' Fish and Game Flume

30' Construction Permit

"O" P.T. 14+53.0
"O4" P.C. 14+04.8

Fish Weir

Trail

Steps

R/W

4+00 to 7+12.5 Install Beam Type Guardrail Rt.
~~4+28.6~~ Install 24"x68' Pipe Culvert
Skew 40° Lt. Bk.

~~6+00~~ 5+78 Remove 24"x38' C.M.P. Rt.

7+00 Install 24"x68' Pipe Culvert
Ditch inlet

7+15 Construct Type 2 Approach Rt.
Install 50' Beam-Type Guardrail Rt.
(Fish & Game Road)

7+76 to 11+51 Install 375' Beam Type Guard Rail Rt.

11+56 Install 50' Beam Type Guardrail Rt.

11+50 to 13+50 Const. Parking Area Rt.
~~10+00 to 11+50 Install 150' Beam-Type Guardrail Rt.~~
12+90 Remove 18"x60' C.M.P. At.
13+50 to 14+12.5 Install 62.5' Beam-Type Guardrail Rt.
13+75 Install 24"x56' Pipe Culvert

EXCAVATION	① 20,725	Cu. Yd.
EMBANKMENT	② 14,567	Cu. Yd.
SEL. MAT'L, TYPE I BORROW, CASE 2	0	TON
SEL. MAT'L, TYPE II BORROW, CASE 2	1853	TON
OVERHAUL (2000' FREEHAUL)	245	YD.-MI.

① (Includes 4732 cu.yd. waste)

① 17,596 cu.yd. to be used as Type I of the following sta:

2,350 cu.yd. Sta 2+57 to Sta 18+20
2,599 cu.yd. Sta 18+20 to Sta 61+41
1,223 cu.yd. Sta 61+41 to Sta 70+68
8,848 cu.yd. Sta 70+68 to Sta 118+00
2,576 cu.yd. Sta 118+00 to Sta 140+45

② Includes 2,350 Cu. Yd. of Exc. To be used as Sel. Mater. Type I.

Note: Contractor shall use extreme caution in preforming work near the Fish and Game Flume. Any damage to the flume shall be repaired immediately at the Contractor's expense.

FISH AND GAME ROAD TYPE 2 APP. RT. STA. 7+15

-3.0%
P.I. 0+50
E.L. 86.39
V.C. 50.0'
-10.0%
Finished Grade
Meet existing ground at 3.70

2.57.6 BOP
EL. 85.11
250 V.C.
-0.51%
35.84
+40
+0.70%
Elev. 88.96
400' V.C.
Special Ditch Lt. -0.356%

BALANCE EQUATION: EMB. = (EXC. - WASTE) + MATERIAL HAULED FROM ANOTHER BALANCE - MATERIAL HAULED TO ANOTHER BALANCE + TYPE I + TYPE II.

HORIZONAL CONTROL:

THE HORIZONAL CONTROL FOR FRITZ COVE ROAD WAS ESTABLISHED FROM A BEARING ON GLACIER HIGHWAY AT STA. 112+97.7 = FRITZ COVE "L" 2+25.9

VERTICAL CONTROL:

THE VERTICAL CONTROL FOR FRITZ COVE ROAD WAS ESTABLISHED BY BY RUNNING A LEVEL LOOP FROM USC&GS B.M. T-28, ELEV. 19.61 AT AUKE BAY TO BEGINING OF PROJECT.

PLATE 4 - PLAN - PROFILE O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
K & E Co., No. 346-IFG 183 35M

J-1

STATE	ROUTE	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0370(2)	1964	5	25

REVISIONS

No.	Date	Description
		AS BUILT

16+00 ~~14+35~~ CONSTRUCT TYPE 2 APPROACH RT.

14+57 to 15+32 ~~14+50 to 15+25~~ INSTALL 75' BEAM TYPE GUARD RAIL RT.

~~16+64 Remove 18"x21' C.M.P. Rt.~~

18+25 Construct Type 2 Approach Rt.

18+30 To 20+00 INSTALL 150' BEAM TYPE GUARD RAIL RT.

19+04 Construct Type 2 Approach Lt. Install 18"x38' Pipe Culvert

~~19+30 Remove 18"x22' C.M.P.~~

19+42 Install 8"x18' Pipe Culvert ~ Skew 5° Lt. Ah. Relocate water line as directed by Engineer

~~19+80~~ 20+00 Install 24"x70' Pipe Culvert

19+93 REMOVE 24"x28' C.M.P.

20+50 to 21+17 Construct Parking Area Rt.

21+58 to 22+50 Construct Parking Area Lt.

~~22+30 to 23+30~~ Install 100' Beam-Type Guardrail Rt.

23+25 Construct Type 2 Appr. Lt. Install 18"x34' C.M.P.

~~23+43 REMOVE 18"x25' C.M.P. Rt.~~

23+50 Install 24"x86' Pipe Culvert

26+00 ~~24+50~~ CONSTRUCT TYPE 2 Approach Rt.

22+80 Const. Type 2 Appr. Rt.

23+12 to 24+12 Install 100' Beam Type Guard Rail Rt.

~~26+12 Remove 18"x45' C.M.P. Rt.~~

26+36 Construct Type 2 Approach Lt. Install 18"x34' Pipe Culvert

26+50 to 27+50 Construct Parking Area Lt.

26+20 to 27+45 ~~26+75 to 27+75~~ Install 125' ~~100'~~ Beam-Type Guardrail Rt.

PLATE 1 - PLAN - PROFILE O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
K & E Co. No. 348-IFG

J-1

STATE	ROUTE	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0970(2)	1964	6	25

REVISIONS		
No.	Date	Description
		AS BUILT

28+60 to 31+70
~~29+80 to 31+80~~ Install 50' Beam-Type Guardrail Rt.
28+86 Remove 24"x 48' C.M.P.
Install 24"x 70' Pipe Culvert
32+60 Construct Type 2 Approach Lt.
Install 18"x 26' Pipe Culvert

33+41 Remove 18"x 22' C.M.P.

33+65 Construct Type 2 Approach Rt.

34+20 Construct Type 2 Approach Rt.

35+10 Construct Type 2 Approach Rt.
Do not disturbe existing Lamp Posts

35+50 Construct Type 2 App.
Install 18"x 28' Pipe Culvert Lt.

35+74 Remove 18"x 24' C.M.P.

36+71 Remove 18"x 20' C.M.P.

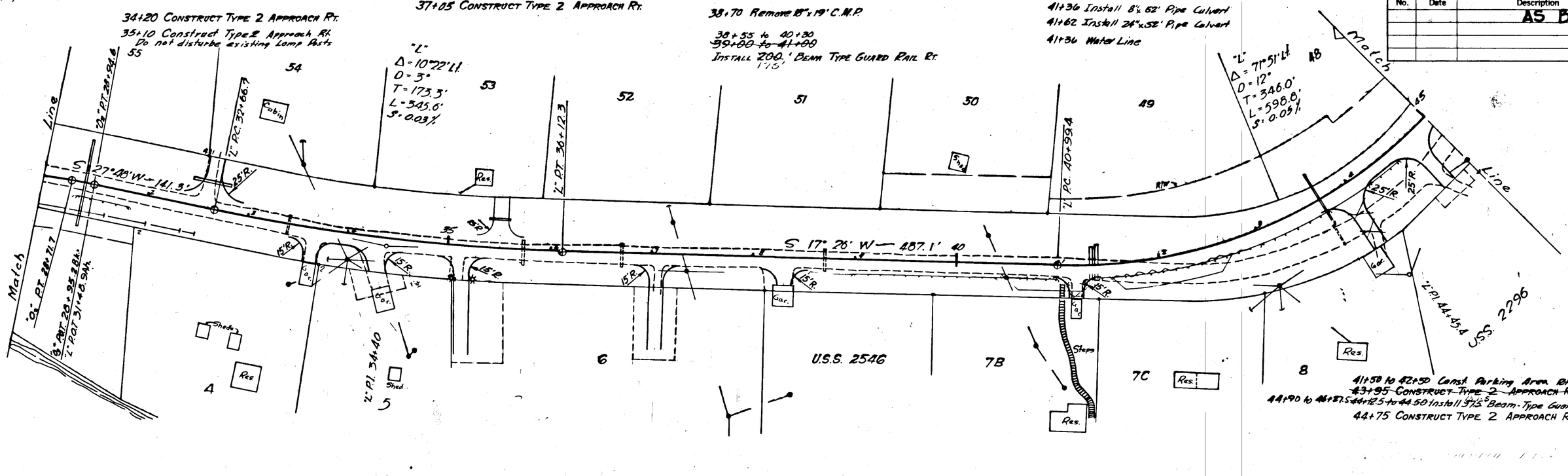
37+05 Construct Type 2 Approach Rt.

38+30 Construct Type 2 Approach Rt.

38+70 Remove 18"x 19' C.M.P.

~~38+55 to 40+30~~
~~39+00 to 41+00~~
Install 200.' Beam Type Guard Rail Rt.
175'

40+50 to 41+20 Const. Parking Area Rt.
~~41+18 Construct Type 2 Approach Rt.~~
43+00 to ~~44+25~~ 44+37.5 to 43+75 Install 237.5' Beam-Type Guardrail Rt.
~~43+70 Install 24"x 54' Pipe Culvert~~
~~Remove 18"x 32' C.M.P.~~
41+36 Install 8"x 62' Pipe Culvert
41+62 Install 24"x 52' Pipe Culvert
41+36 Water Line



41+50 to 42+50 Const. Parking Area Rt.
~~43+95 Construct Type 2 Approach Rt.~~
44+90 to ~~46+87.5~~ 44+12.5 to 44.50 Install 37.5' Beam-Type Guardrail Rt.
44+75 Construct Type 2 Approach Rt.

EXCAVATION	Cu. Yd.
EMBANKMENT	Cu. Yd.
SEL. MAT'L., TYPE I BORROW, CASE 2	TON
SEL. MAT'L., TYPE II BORROW, CASE 2	TON
OVERHAUL (2000' FREEHAUL),	YD.-MI.

SEE SHEET # 7

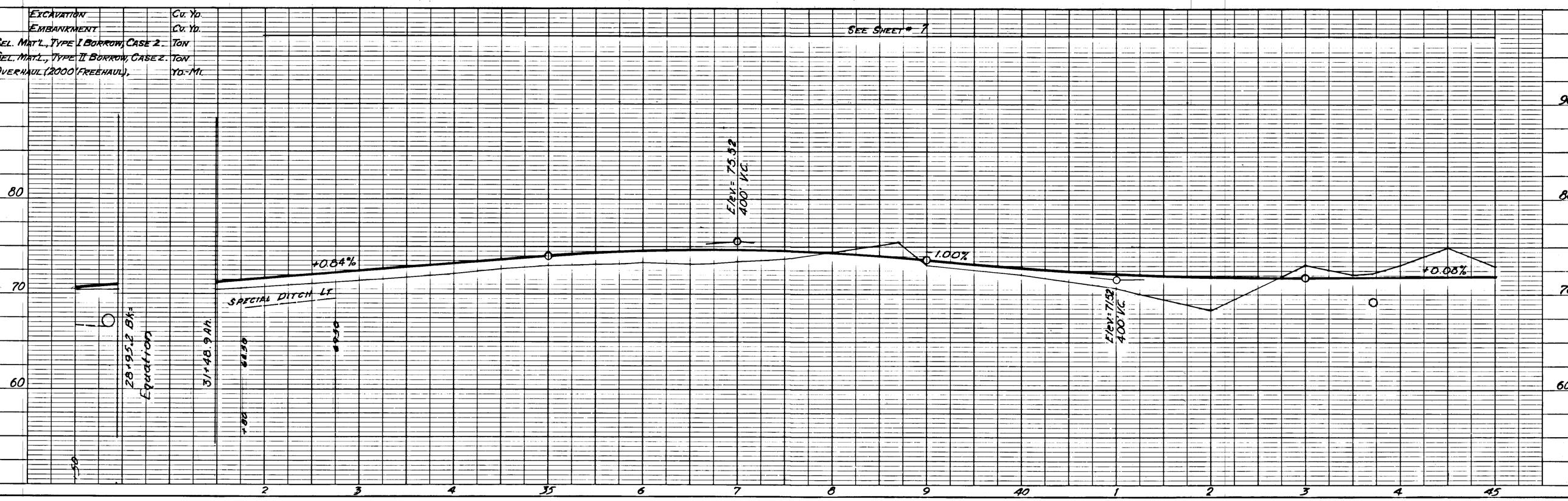


PLATE 1 - PLAN - PROFILE O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
K & E Co., No. 348-1FG 1963 25M

J-1

STATE	ROUTE	YEAR	SHEET NO.	TO SHE
ALASKA	S-0970(2)	1964	7	2

REVISIONS

No.	Date	Description
		AS BUIL

~~45+00 to 47+00 Install 200' Beam-Type Guardrail Rt.~~
~~45+68 Remove 18"x19' C.M.P. Rt.~~
45+87 Construct Type 2 Approach Lt.
46+25 Install 24"x54' Pipe Culvert
47+50 Construct Type 2 Approach Rt.
49+17 Install 8"x80' Pipe Culvert
Skew 38° Lt. Ah. Relocate water line as directed by Engineer
49+39 Remove 18"x22' C.M.P.
49+50 to 52+00 Install 250' Beam-Type Guardrail Rt.
50+17 Remove 36"x49' C.M.P.
Install 24"x76' Pipe Culvert
49+50 Install 24"x52' Pipe Culvert

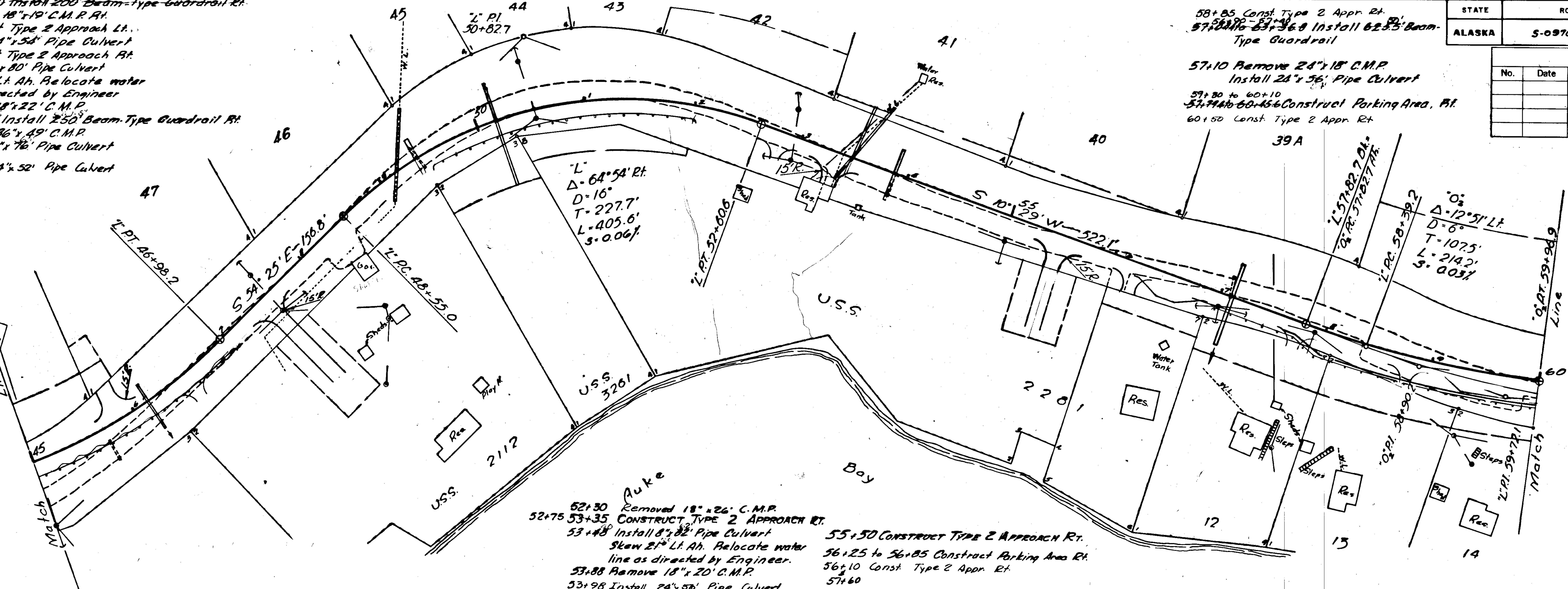
58+85 Const. Type 2 Appr. Rt.
56+90 - 57+40
~~57+04 to 63+36.8~~ Install 625.5' Beam-Type Guardrail

57+10 Remove 24"x18' C.M.P.
Install 24"x56' Pipe Culvert

59+80 to 60+10
~~57+94 to 60+45.6~~ Construct Parking Area, Rt.
60+50 Const. Type 2 Appr. Rt

52+30 Removed 18"x26' C.M.P.
52+75 53+35 CONSTRUCT TYPE 2 APPROACH RT.
53+48 Install 8"x82' Pipe Culvert
Skew 21° Lt. Ah. Relocate water line as directed by Engineer.
53+88 Remove 18"x20' C.M.P.
53+98 Install 24"x58' Pipe Culvert

55+50 CONSTRUCT TYPE 2 APPROACH RT.
56+25 to 56+85 Constract Parking Area Rt.
56+10 Const. Type 2 Appr. Rt.
57+60



EXCAVATION	CU. YD.	35,773	(Includes 11,798 c.y. Waste)
EMBANKMENT	CU. YD.	① 26,722	
SEL. MAT'L, TYPE I BORROW, CASE 2.	TON	8,599	
SEL. MAT'L., TYPE II BORROW, CASE 2.	TON	4,904	
OVERHAUL (2000' FREEHAUL)	YD.-MI.	2,170	

① Includes 2,599 c.y. of Exc. from Sta 2+57 to Sta 18+20 to be used as Sel. Mater. Type I.

STATE	ROUTE	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0970 (2)	1964	8	25

REVISIONS		
No.	Date	Description
		AS BUILT

61+75 Remove 18"x26' C.M.P.
61+66 Install 24"x56' Pipe Culvert
63+10 Remove 18"x24' C.M.P.
62+72 to 63+22 Install 50' Beam Type Guard Rail Rt.

63+50 Const. Type 2 Appr. Rt.
61+83.1 to 62+14.5 & 63+22.5 to 64+30 Construct Parking Area Rt.
Install 1087.5' Beam Type Guard Rail, Rt.
65+60 Install 24"x58' Pipe Culvert
63+85 to 66+97.5 Install 312.5' Beam Type Guard Rail Rt.

67+00 Install 100' Beam Type Guardrail Rt.
67+27 Remove 18"x24' C.M.P. Lt.
67+25 to 68+25 Const. Tourist Turnout Rt.
68+60 to 73+97.5 Install 537.5' Beam Type Guardrail
74+19.5 to 74+94.5 Install 75' Beam Type Guardrail

72+65 Remove 24"x42' C.M.P. Lt.
72+92 Install 24"x56' Pipe Culvert
73+00 to 74+00 Construct Parking Area, Lt.
74+82 Remove 18"x26' C.M.P. Lt.
Install 24"x54' Pipe Culvert

"L" Δ = 15°51' Lt. D = 6° T = 132.9' L = 264.2'

"L" Δ = 38°38' Lt. D = 16° T = 125.5' L = 241.5'

"L" Δ = 25°08' Lt. D = 14° T = 91.2' L = 179.5'

"02" Δ = 20°46' Lt. D = 12° T = 87.5' L = 173.1' S = 0.05%

"02" Δ = 21°50' Lt. D = 12°00' T = 92.1' L = 181.9' S = 0.05%

"03" Δ = 28° D = 12° T = 117.4' L = 233.3' S = 0.05%

"03" Δ = 28° 45' D = 12° 30' T = 117.49' L = 230.00' S = 0.04%

"02" Δ = 24°48' Rt. D = 12° T = 105.0' L = 206.7' S = 0.05%

"L" Δ = 37°12' Rt. D = 16° T = 120.5' L = 232.5'

"L" Δ = 12°48' Rt. D = 10° T = 64.3' L = 128.0'

"02" Δ = 25°23'30" Rt. D = 10° T = 129.1' L = 253.9' S = 0.05%

"L" Δ = 24°21'30" Rt. D = 10° T = 123.7' L = 243.6'

EXCAVATION	CU. YD.	18,291	(includes 454 cy waste)
EMBANKMENT	CU. YD.	① 21,127	
SEL. MAT'L., TYPE I BORROW, CASE 2.	TON	0	
SEL. MAT'L., TYPE II BORROW, CASE 2.	TON	961	
OVERHAUL, (2000' FREEHAUL)	YD.-MI.	648	

① Includes 1223 cy. of Exc. from Sta 21+51 to Sta 18+20 to be used as Sel. Mater. Type I.

Elev. = 78.63
V.C. = 600'

+1.00

-1.00%

Special Ditch 2 Lf

See Sheet "9"

PLATE 1 - PLAN - PROFILE O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
K & E Co., No. 348-IPG 1/63 25M

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STATE	ROUTE	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0970 (2)	1964	9	25

REVISIONS

No.	Date	Description
		AS BUILT

75+40 (45) Install 8"x 70' (66') Pipe Culvert
18° Skew Bk. Ah. Relocate water line as directed by Engineer
76+07 Construct Type 2 Approach Rt.
76+38 (41) Install 8"x 73' Pipe Culvert
Skew 42° Rt. Ah. Relocate water line as directed by Engineer
77+00 Construct Type 2 Approach Rt.
78+40 Construct Type 2 Approach Rt.
79+45 CONSTRUCT TYPE 2 APPROACH RT.
78+20 Remove 12"x 20' C.M.P.
76+40 Const. Type 2 Appr. Rt.
78+09 " " " " Lt.
Install 18"x 32' Pipe Culvert
78+65 Const. Type 2 Appr. Rt.

80+30 Const. Type 2 Appr. Rt.
81+14 INSTALL 24"x 58' (52') Pipe Culvert
REMOVE 18"x 20' C.M.P.
82+31 Install 24"x 52' Pipe Culvert
82+33 REMOVE 18"x 22' C.M.P.
83+09 (02) CONSTRUCT TYPE 2 APPROACH RT.
Install 18"x 32' Pipe Culvert

86+90 Remove 18"x 17' C.M.P.
Construct Type 2 Approach Lt.
Install 18"x 32' C.M.P.
86+75 Construct Type 2 Approach Lt.
Install 18"x 32' C.M.P.
86+75 Remove 12"x 24' C.M.P.
87+77 Construct Type 1 Approach Rt. 20' Wide
89+08 Remove 4"x 23' (24') Steel Pipe

EXCAVATION	CU. YD.	27,424	(Includes 10,591 waste)
EMBANKMENT	CU. YD.	① 30,794	
SEL. MAT'L TYPE I BORROW, CASE 2.	TON	0	
SEL. MAT'L TYPE II BORROW, CASE 2.	TON	5,280	
OVERHAUL (2000' FREEHAUL)	YD.-MI.	12,992	

① Includes 8848 CY of Exc. from Sta 2+57 to Sta 18+20 to be used as Sel. Mater. Type I.

PLATE 1 - PLAN - PROFILE O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
K & E Co., No. 346-1PG

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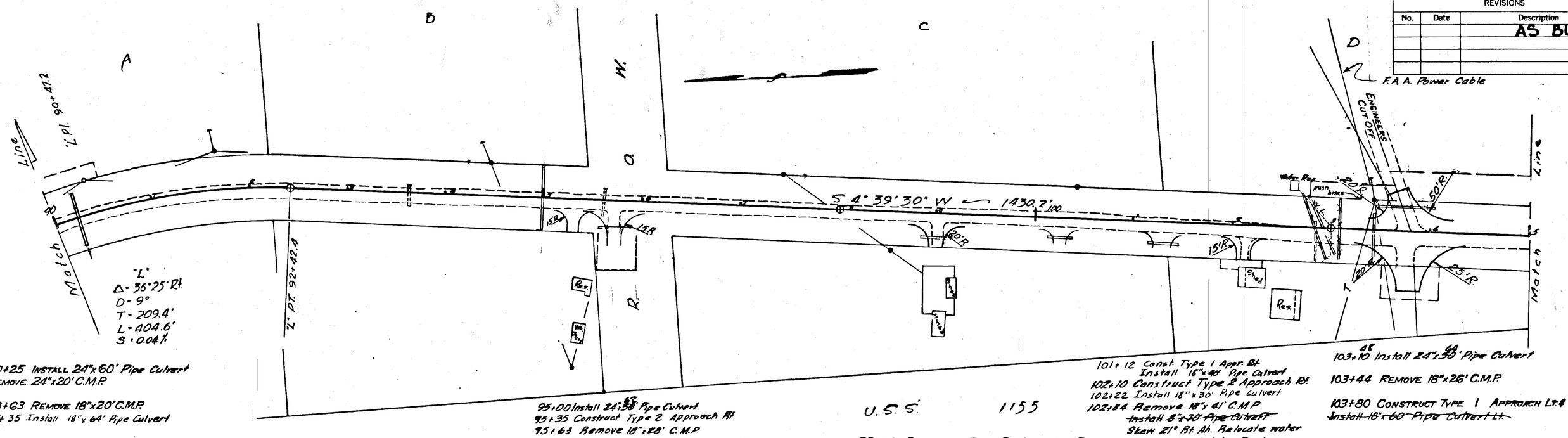
STATE	ROUTE	YEAR	SHEET NO.	TOT SHE
ALASKA	S-0970(2)	1964	10	2

REVISIONS		
No.	Date	Description
		AS BUILT



90+25 INSTALL 24"x60' Pipe Culvert
REMOVE 24"x20' C.M.P.

93+63 REMOVE 18"x20' C.M.P.
95+35 Install 18"x64' Pipe Culvert

95+00 Install 24"x38' Pipe Culvert
95+35 Construct Type 2 Approach Rt.
95+63 Remove 18"x28' C.M.P.
95+75 CONSTRUCT TYPE 2 APPROACH RT.
96+25 Remove 12"x20' C.M.P.
96+00 " " " 22' "
98+90 " " " 20' "

U. S. S. 1155

99+00 CONSTRUCT TYPE 2 APPROACH RT.
Install 18"x30' Pipe Culvert
100+05 Const. Type 2 Appr. Rt.
Install 18"x30' Pipe Culvert

101+12 Const. Type 1 Appr. Rt.
Install 18"x40' Pipe Culvert
102+10 Construct Type 2 Approach Rt.
102+22 Install 18"x30' Pipe Culvert
102+84 Remove 18"x41' C.M.P.
~~Install 8"x70' Pipe Culvert~~
Skew 21° Rt. Ah. Relocate water line as directed by Engineer.
102+95 Install 8"x53' Pipe Culvert

103+18 Install 24"x38' Pipe Culvert
103+44 REMOVE 18"x26' C.M.P.
103+80 CONSTRUCT TYPE 1 APPROACH LT. & RT.
~~Install 18"x60' Pipe Culvert Lt.~~

EXCAVATION	CU. YD.
EMBANKMENT	CU. YD.
SEL. MAT'L., TYPE I BORROW, CASE 2	TON
SEL. MAT'L., TYPE II BORROW, CASE 2	TON
OVERHAUL (2000' FREEHAUL)	YD.-MI.

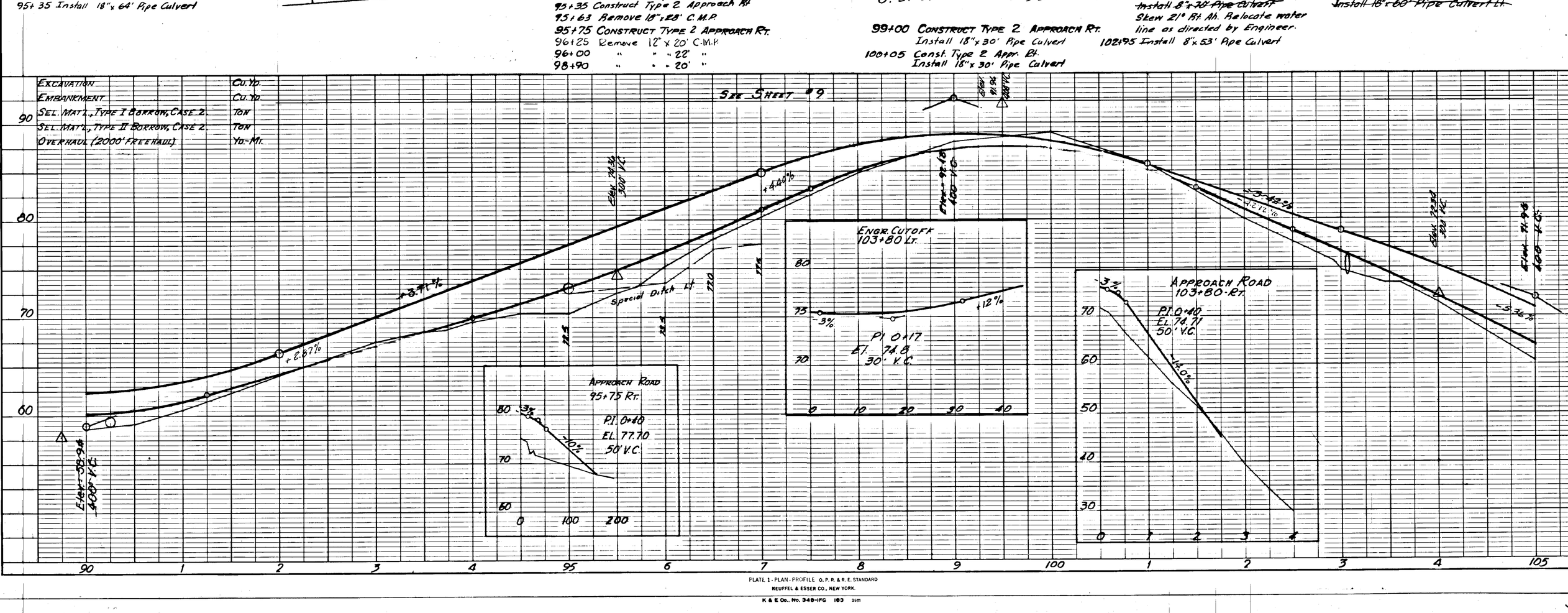


PLATE 1 - PLAN - PROFILE O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
K & E Do., No. 348-IFG 183 25m

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~~105+47 Remove 18"x16' C.M.P.~~
106+00 ~~105+75~~ Construct Type 2 Approach Lt.
Install 18"x26' Pipe Culvert
106+80 Install 24"x52' Pipe Culvert
107+10 Construct Type 2 Approach Lt.

109+60 CONSTRUCT TYPE 2 APPROACH RT.

109+85 Remove 24" x 20' Barrel Culvert
109+85 CONSTRUCT TYPE 2 APPROACH LT.
INSTALL 18"x 28' Pipe Culvert
110+75 Remove 24"x ~~18~~' C.M.P.
110+90 Construct Type 2 Approach Rt.
111+90 Install 24"x 70' Pipe Culvert
Skew 30° Rt. Ah.
110+90 Remove 18"x 22' C.M.P.

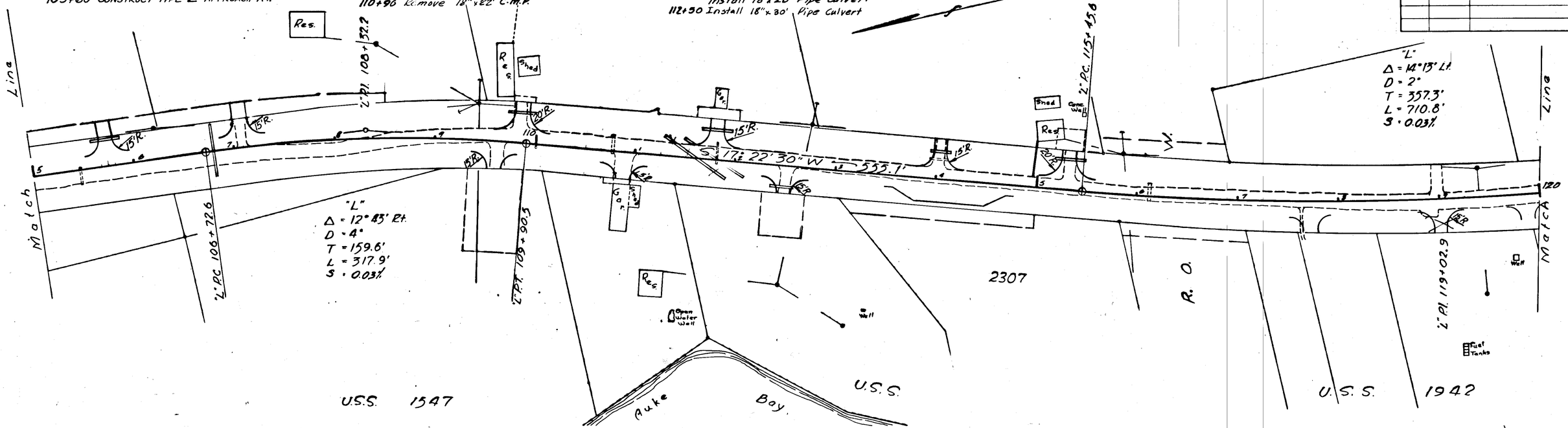
111+80 Construct Type 2 Approach Lt.
Install 18"x 30' Pipe Culvert
~~Remove 18"x22' C.M.P.~~
112+50 Construct Type 2 Approach Rt.
113+79 ~~112+79~~ to 114+51 Construct Parking Area Rt.
113+90 Remove 12"x 20' C.M.P. Lt.
Construct Type 8' Approach Lt.
Install 18"x 28' Pipe Culvert
112+90 Install 18"x 30' Pipe Culvert

115+30 ~~Remove 12"x 20' C.M.P.~~
Construct Type 2 Approach Lt.
Install 18"x 28' Pipe Culvert
35'
~~116+19 Remove 24"x 18' C.M.P.~~
117+60 Const. Type 2 Appr. Rt.

16
119+00 CONSTRUCT TYPE 2 Approach Rt.

STATE	ROUTE	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0970(2)	1964	11	25

REVISIONS		
No.	Date	Description
		AS BUILT



EXCAVATION	CU. YD.
EMBANKMENT	CU. YD.
SEL. MAT'L., TYPE I BORROW, CASE 2.	TON
SEL. MAT'L., TYPE II BORROW, CASE 2.	TON
OVERHAUL (2000' FREEHAUL)	YD.-MI.

T.C.D. PLATE

See Sheet # 9
See Sheet # 12

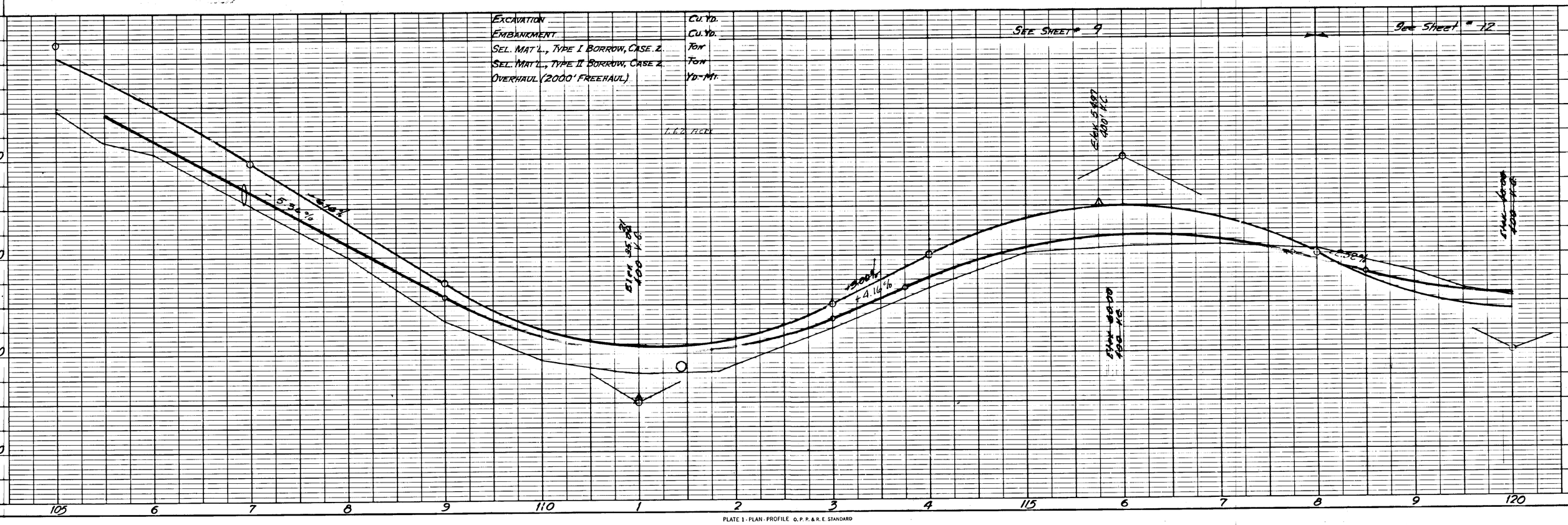


PLATE 1 - PLAN - PROFILE O. P. P. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
K & E Co., No. 348-1FG 183 35m

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STATE	ROUTE	YEAR	SHEET NO.	TOT SHE
ALASKA	S-0970(2)	1964	12	2

REVISIONS		
No.	Date	Description
		AS BUI

120+58 Const. Type 2 Appr. Lt.
Install 18"x 30' Pipe Culvert
120+12 ~~Remove 18"x 21" C.M.P.~~
Install 24"x ~~46~~ 50' Pipe Culvert, Ditch inlet
120+30 Construct Type 2 Approach Rt.
121+20 Construct Type 2 Approach Lt.
Install 18"x 36' Pipe Culvert
~~121+37 Install 8"x 76' Pipe Culvert~~
~~Skew 46° At Ak. Relocate~~
~~water line as directed by Engineer.~~

121+40 Construct Type 2 Approach Rt.
~~122+25 to 123+13 Construct Parking Area Rt.~~
Install 1125 Beam type Guardrail with
two Pedestrain Access opening
123+10 Construct Type 2 Approach Lt.
Install 18"x 28' Pipe Culvert

123+20 Install 8"x 58' Pipe Culvert
Relocate water line as directed by Engineer.
123+50
~~124+25~~ CONSTRUCT TYPE 2 APPROACH LT.
INSTALL 18"x 36' Pipe Culvert
129+25
~~125+61~~ REMOVE ~~18"x 21"~~ C.M.P.
122+82 Const. Type 2 Appr. Rt.
Install 18"x 30' Pipe Culvert

126+25 CONSTRUCT TYPE 2 APPROACH RT.

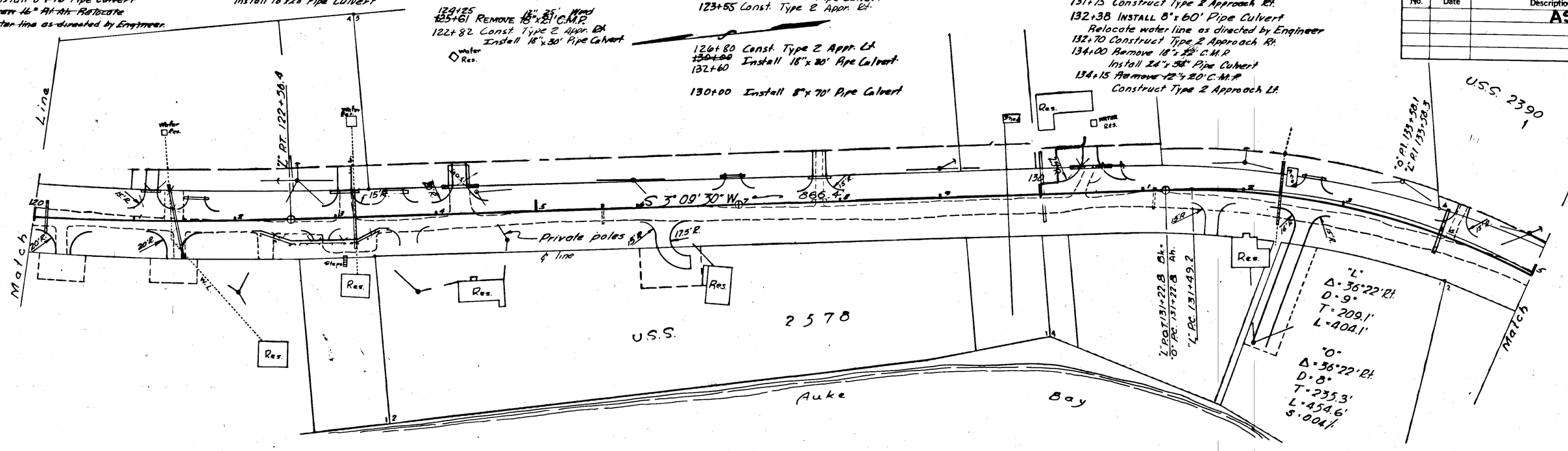
127+75 Remove 12"x 20' C.M.P. Lt.
Construct Type 2 Approach
Install 18"x 38' Pipe Culvert
123+55 Const. Type 2 Appr. Rt.

126+80 Const. Type 2 Appr. Lt.
~~130+00~~ Install 18"x 30' Pipe Culvert
132+60

130+00 Install 8"x 70' Pipe Culvert

130+80
130+50 CONSTRUCT TYPE 2 APPROACH LT.
INSTALL 18"x 40' Pipe Culvert

131+13 REMOVE 18"x 24" C.M.P.
131+75 Construct Type 2 Approach Rt.
132+38 INSTALL 8"x 60' Pipe Culvert
Relocate water line as directed by Engineer
132+70 Construct Type 2 Approach Rt.
134+00 Remove 18"x ~~22~~ C.M.P.
Install 24"x 36" Pipe Culvert
134+15 ~~Remove 12"x 20' C.M.P.~~
Construct Type 2 Approach Lt.



EXCAVATION	CU. YD.	10,626 (Includes 616 CY. waste)
EMBANKMENT	CU. YD.	① 10,211
SEL. MAT'L., TYPE I BORROW, CASE 2	TON	5,850
SEL. MAT'L., TYPE II BORROW, CASE 2	TON	1,338
OVERHAUL (2000' FREEHAUL),	YD.-MI.	7,363

① Includes 2576 CY. of Exc. from Sta 2+57 to Sta 10+60 to be used as Sel. Mater Type I.

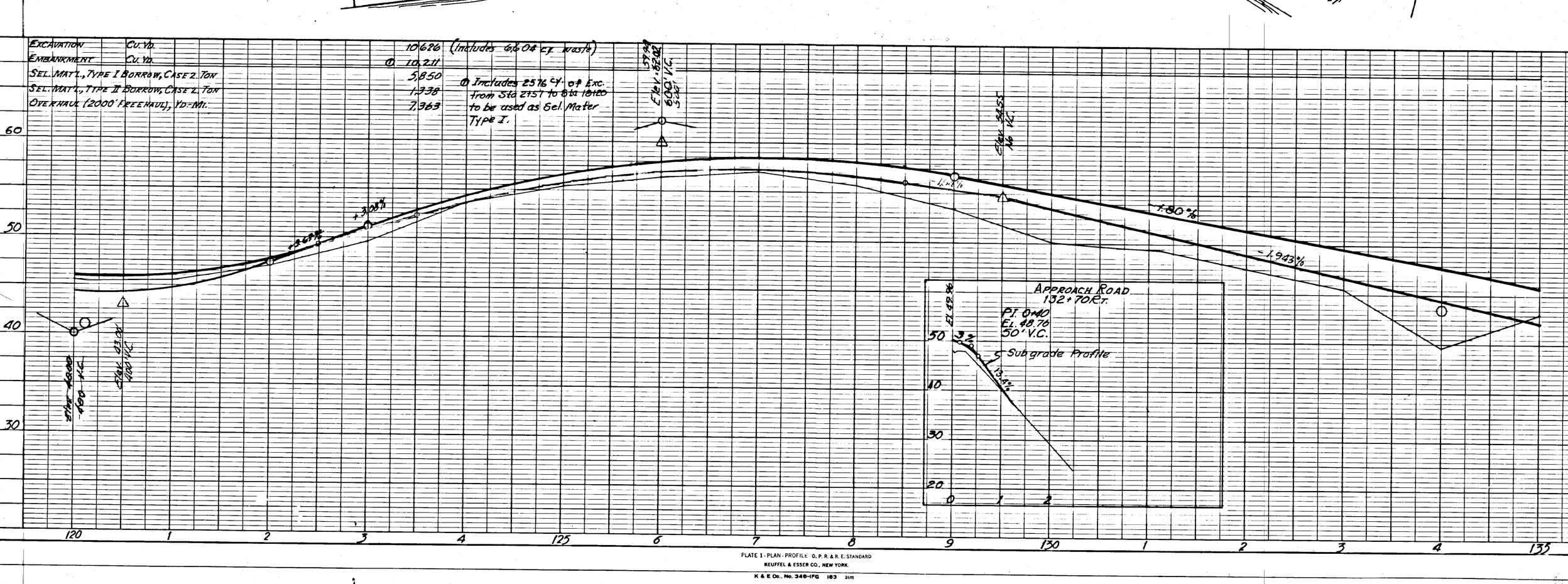


PLATE 1 - PLAN - PROFILE O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK
K & E Co., No. 346-IFG 183 25m

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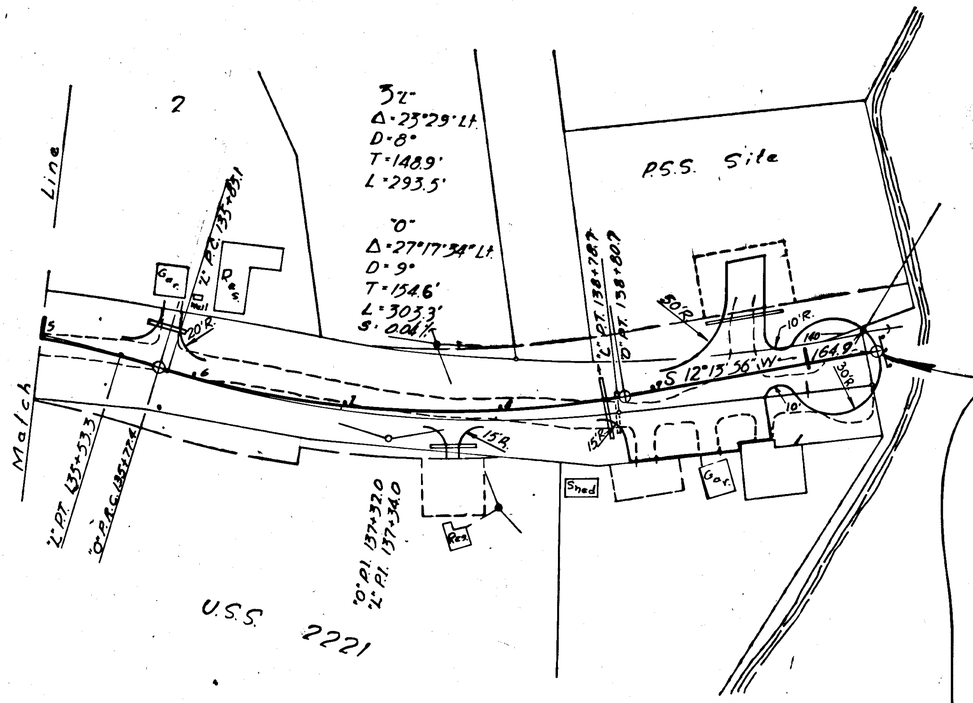
STATE	ROUTE	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0970(2)	1964	13	25

REVISIONS		
No.	Date	Description
		AS BUILT



"O"
Δ = 23°29' Lt.
D = 8°
T = 148.9'
L = 293.5'

"O"
Δ = 27°17'34" Lt.
D = 9°
T = 154.6'
L = 303.3'
S = 0.04 Ft.

135+84 Construct Type 2 Approach Lt.
Install 18"x26' Pipe Culvert
137+70 Construct Type 2 Approach Rt.
Install 18"x 30' Pipe Culvert
138+70 Install 24"x 70' Pipe Culvert

~~138+75 Remove 18"x38' C.M.P.~~

139+20 Construct Special Approach to R/W line Rt. as directed by Engineer

139+72 Construct Type 1 Approach Lt.
~~Remove 24"x 38' C.M.P.~~
Install 24"x 50' Pipe Culvert

140+00 Remove and reset Sign as directed by Engineer

140+15.6 Construct Cul-De-Sac

140+44 Install 25' Beam Type Guardrail 112.5' 72.5' Lt. to 72.5' Rt. of ℄

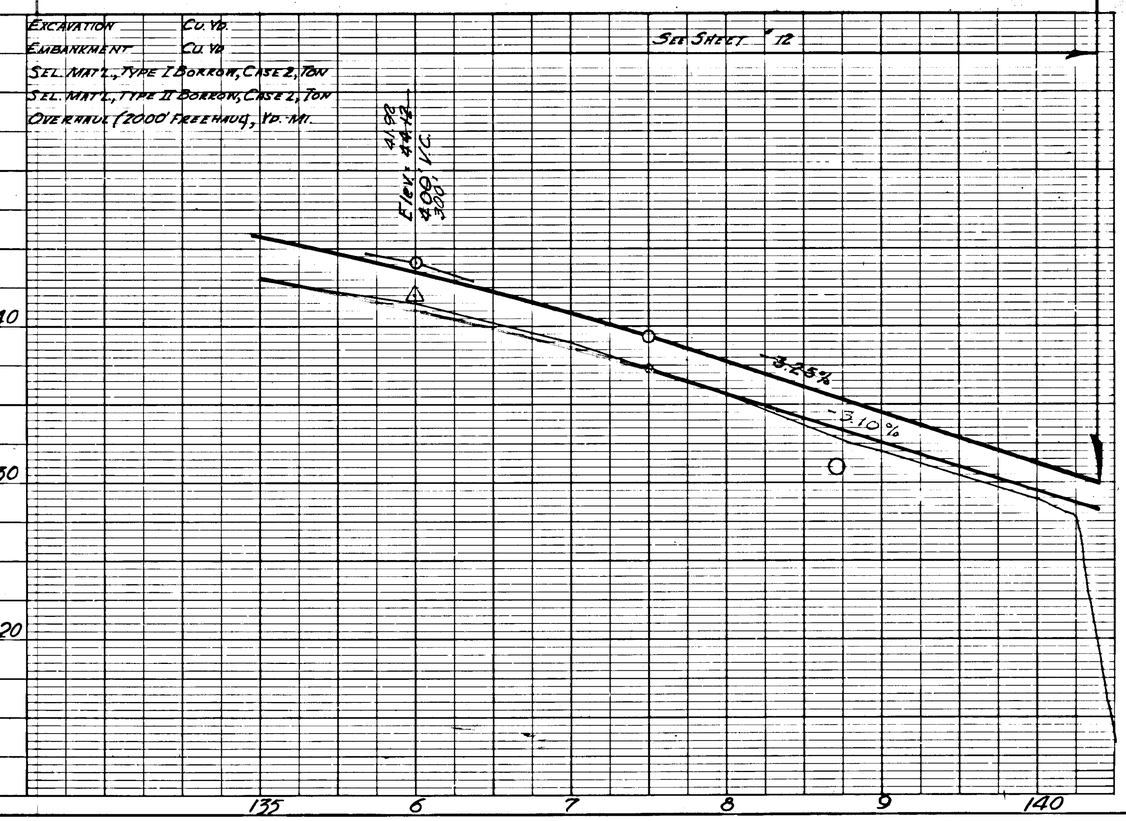


PLATE 1 - PLAN - PROFILE O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

J-1

LIST OF CULVERTS AND MISCELLANEOUS WORK

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0970(2)	1964	14	25

STATION	CONSTRUCT APPROACH TYPE	103(1) EXCAVATION FOR STRUCTURES CU. YD.	457(1) REMOVAL OF CULVERT LIN. FT.	533(5A) 8" PIPE CULVERT LIN. FT.	453(5E) 18" PIPE CULVERT LIN. FT.	453(5G) 24" PIPE CULVERT LIN. FT.	560(3) CULVERT MARKER POSTS EACH	583(1) BEAM-TYPE GUARDRAIL LIN. FT.	FILL HEIGHT	REMARKS
										10°
"D2" 3+40		28				100	2		5'	Skew 40° Lt. Bk.
"D2" 5+70			38							
"D2" 7+00						68	2		9'	Ditch Inlet
"D2" 7+15	2							50		Fish & Game Rd.
"D2" 10+00 to 11+50								150		Parking Area
"D2" 12+90			40							
"D2" 13+50 to 14+12.5								625		
"D2" 14+35	2									
"D2" 14+50 to 15+25								75		
"D2" 16+64			21							
"D2" 18+25	2									
"D2" 18+50 to 20+00								150		
"D2" 19+04	2	14			38					
"D2" 19+30			22							
"D2" 19+42				78						Skew 5° Lt. Ah.
"D2" 19+80		14				90	2		16'	
"D2" 19+93			28							
"D2" 20+50 to 21+17										Parking Area
"D2" 21+58 to "D3" 22+50										Parking Area
"D3" 22+50 to 23+50								100		
"D3" 23+25	2				34					
"D3" 23+43			25							
"D3" 23+50		5				66	2		9'	
"D3" 24+50	2									
"D3" 26+12			45							
"D3" 26+36	2				34					
"D3" 26+50 to 27+50										Parking Area
"D3" 26+75 to 27+75								100		
"D3" 27+80		13		50						Skew 2° Lt. Ah.

LIST OF CULVERTS AND MISCELLANEOUS WORK

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0970(2)	1964	15	25

STATION	CONSTRUCT APPROACH TYPE	103(1) EXCAVATION FOR STRUCTURES CU. YD.	457(1) REMOVAL OF CULVERT LIN. FT.	453(5A) 8" PIPE CULVERT LIN. FT.	453(5E) 18" PIPE CULVERT LIN. FT.	453(5G) 24" PIPE CULVERT LIN. FT.	560(3) CULVERT MARKER POSTS EACH	583(1) BEAM-TYPE GUARDRAIL LIN. FT.	FILL HEIGHT	REMARKS
"C" 28+30	2				34					
"C" 28+80 to "L" 31+80								50		
"L" 28+86		65	48			70	2		11'	
"L" 32+60	2				26					
"L" 33+41			26							
"L" 33+65	2									
"L" 34+20	2									
"L" 35+10	2									
"L" 35+50	2				28					
"L" 35+74			24							
"L" 36+71			20							
"L" 37+05	2									
"L" 38+30	2									
"L" 38+70			19							
"L" 39+00 to 41+00								200		
"L" 41+18	2									Parking Area
"L" 41+37.5 to 43+75								237.5		
"L" 43+70		10	32			54	2		5'	
"L" 43+95	2									Parking Area
"L" 44+12.5 to 44+50								37.5		
"L" 44+75	2									
"L" 45+00 to 47+00								200		
"L" 45+68			19							
"L" 45+87	2									
"L" 46+25		10				54	2		5'	
"L" 47+50	2									
"L" 49+17		[illegible]		80						Skew 38° Lt. Ah.
"L" 49+39			22					[illegible]		
"L" 49+50 to 52+00	[illegible]	[illegible]	[illegible]					250		
"L" 44+50		88				52	2			

LIST OF CULVERTS AND MISCELLANEOUS WORK

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0970(2)	1964	16	25

As Built

STATION	CONSTRUCT APPROACH TYPE	103(1) EXCAVATION FOR STRUCTURES CU. YD.	457(1) REMOVAL OF CULVERT LIN. FT.	453(5A) 8" PIPE CULVERT LIN. FT.	453(5E) 18" PIPE CULVERT LIN. FT.	453(5G) 24" PIPE CULVERT LIN. FT.	560(3) CULVERT MARKER POSTS EACH	583(1) BEAM-TYPE GUARDRAIL LIN. FT.	FILL HEIGHT	REMARKS
"L" 50+17		54	49			76	2			
"L" 53+35	2									
"L" 53+48				82						Skew 21° Lt. Ah.
"L" 53+88			20							
"L" 55+50	2									
"L" 56+25 to 56+85										Parking Area
"L" 57+04.4 to 63+36.8								625		(4) Pedestrian Openings
"L" 57+10		23	18			56	2		8'	Ditch Outlet
"L" 57+79.4 to "O2" 60+45.6										Parking Area
"O2" 61+75		10	26			56	2		3'	
"O2" 61+83.1 to 62+74.3										Parking Area
"O2" 63+625 to 74+50								1087.5		
"O2" 67+27			24							
"O2" 72+65			42							
"O2" 73+00 to 74+00										Parking Area
"O2" 74+42		15	26			54	2		5'	
"O2" 75+40				104						Skew 18° Rt. Ah.
"L" 76+07	2									
"L" 76+38				130						Skew 42° Rt. Ah.
"L" 77+00	2									
"L" 78+40	2									
"L" 79+45	2									
"L" 81+14		8	20			50	2		4'	
"L" 82+33			22							
"L" 83+00	2									
"L" 86+30	2		17		32					
"L" 86+75	2				32					
"L" 87+77	1									20' Wide
"L" 89+08			25							4" Steel Pipe
6128 - 6828										Tourist Turnout

LIST OF CULVERTS AND MISCELLANEOUS WORK

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0970(2)	1964	17	25

STATION	CONSTRUCT APPROACH TYPE	103(1) EXCAVATION FOR STRUCTURES CU. YD.	457(1) REMOVAL OF CULVERT LIN. FT.	453(5A) 8" PIPE CULVERT LIN. FT.	453(5E) 18" PIPE CULVERT LIN. FT.	453(5G) 24" PIPE CULVERT LIN. FT.	560(3) CULVERT MARKER POSTS EACH	583(1) BEAM-TYPE GUARDRAIL LIN. FT.	FILL HEIGHT	REMARKS
"L" 90+25		7	20			60	2		4'	
"L" 93+63			20							
"L" 95+00		10				50	2		8'	
"L" 95+35	2									
"L" 95+63			28							
"L" 95+75	2									
"L" 99+00	2									
"L" 102+10	2									Skew 21° Rt. Ah
"L" 102+84			41	70					4'	
"L" 103+10		4				50	2			
"L" 103+44			26							Lt. & Rt.
"L" 103+80	1				60					
"L" 105+47		16								
"L" 105+75	2				26				4'	
"L" 106+80		12				52	2			
"L" 107+10	2									
"L" 109+60	2									
"L" 109+85	2				28					
"L" 110+75			18							
"L" 110+90	2								4'	Skew 30° Rt. Ah.
"L" 111+70		10				30	2			
"L" 111+80	2		22		30					
"L" 112+50	2									Parking Area
"L" 113+79 to 114+51										
"L" 113+90	2		20		28					
"L" 115+30	2		20		26					
"L" 116+13			18							
"L" 119+00	2								4'	Ditch Inlet
"L" 120+12		26	21			46	2			

STATE	ROUTE	DATE	SHEET NO.	TOTAL SHEETS
ALASKA	S-09701-(2)	1964	20	25

AS BUILT

SUMMARY OF STANDARD SIGNS

STATION	Dist. from ℄ in ft. LEFT	Dist. from ℄ in ft. RIGHT	SIGN NO.	TYPE OF SIGN
3+30	14		R1-1	Stop
5+00		14	W1-5R	Winding Road (Next 2 miles)
87+85		30	R1-1	Stop
103+40	40		R1-1	Stop
104+00		30	R1-1	Stop
[illegible]	14		[illegible]	Winding Road
				Total Sign=5

STATION	Dist. from ℄ in ft. LEFT	Dist. from ℄ in ft. RIGHT	SIGN NO.	TYPE OF SIGN

STATION	Dist. from ℄ in ft. LEFT	Dist. from ℄ in ft. RIGHT	SIGN NO.	TYPE OF SIGN