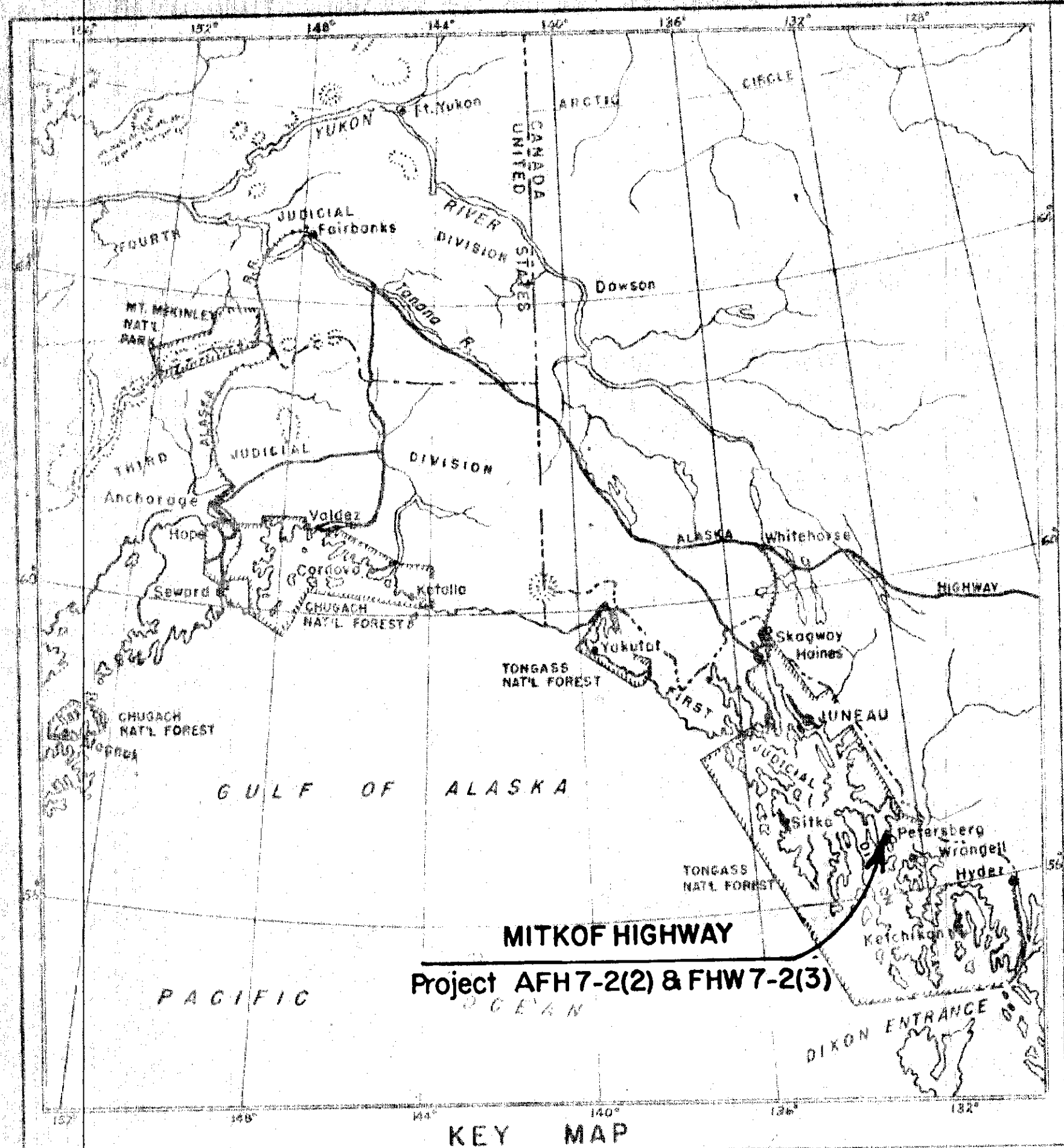


STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	7	2	1963	1	24



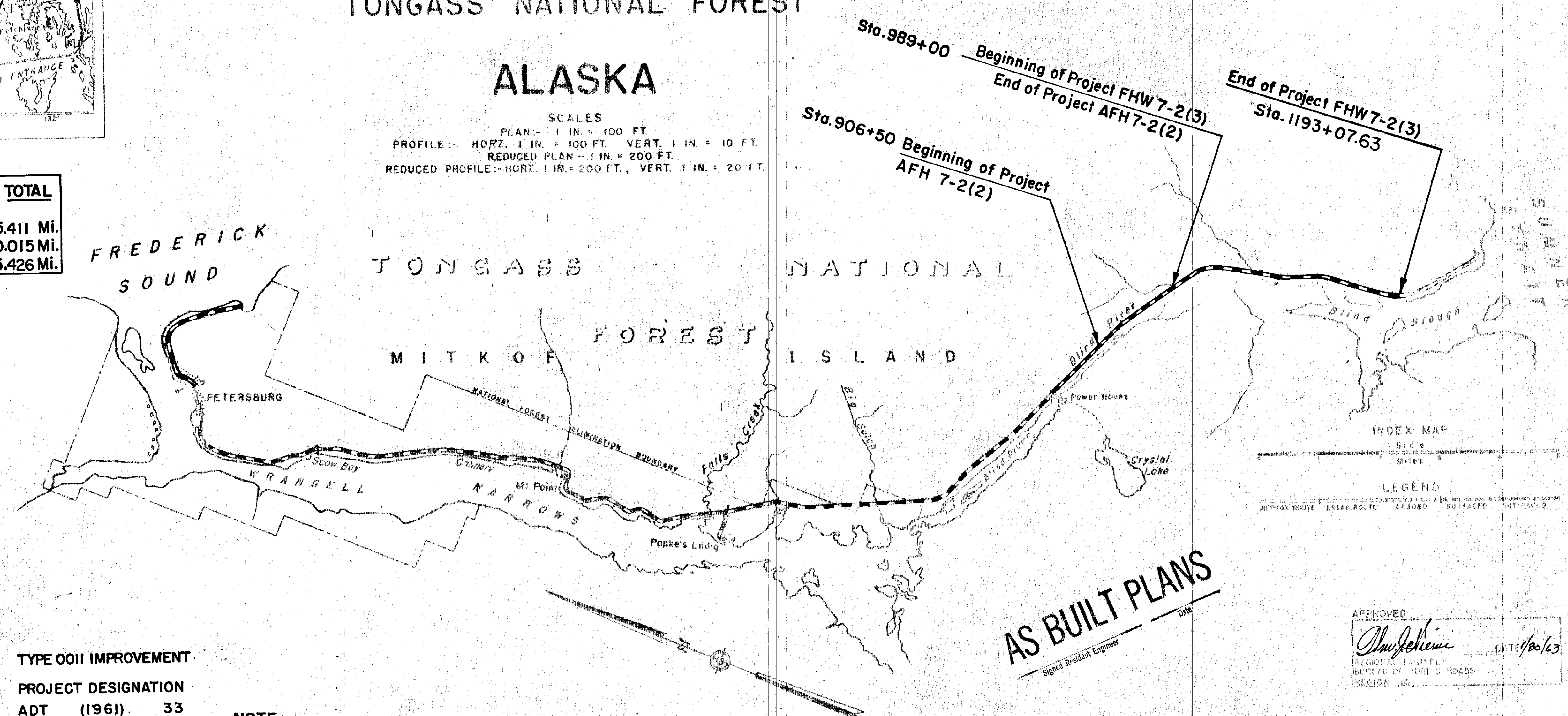
U.S. DEPARTMENT OF COMMERCE
 BUREAU OF PUBLIC ROADS
 REGION 10
 PLANS FOR PROPOSED
Project AFH 7-2(2) & FHW 7-2(3)
MITKOF HIGHWAY
GRADING & DRAINAGE
 ALASKA FOREST HIGHWAY SYSTEM
 TONGASS NATIONAL FOREST

TITLE OF SHEETS	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-4	SUMMARY OF QUANTITIES
5	TYPICAL SECTION SPECIAL DETAILS
6-16	PLAN & PROFILE SHEETS
17	PLAN & PROFILE-HAUL ROAD
18	BORROW PIT DETAILS-CRYSTAL CREEK PIT
19	QUARRY SITE DETAILS
20	SUMMARY OF STANDARD SIGNS
21	STANDARD CULVERTS RIO-S-4
22	STD. END SEC. FOR CULVERT PIPE
23	STD. PROJECT IDENTIFICATION SIGNS RIO-S-6
24	TYPICAL SIGNS R 10-S-2

PROJECT SUMMARY

	AFH 7-2(2)	FHW 7-2(3)	TOTAL
WIDTH OF SUBGRADE	28 FT.	28 FT.	
LENGTH OF GRADING & DRAINAGE	1.561 Mi.	3.850 Mi.	5.411 Mi.
LENGTH OF BRIDGE		0.015 Mi.	0.015 Mi.
TOTAL LENGTH OF PROJECT	1.561 Mi.	3.865 Mi.	5.426 Mi.

SCALES
 PLAN: 1 IN. = 100 FT.
 PROFILE: HORZ. 1 IN. = 100 FT. VERT. 1 IN. = 10 FT.
 REDUCED PLAN: 1 IN. = 200 FT.
 REDUCED PROFILE: HORZ. 1 IN. = 200 FT., VERT. 1 IN. = 20 FT.



CONVENTIONAL SIGNS

SECTION LINE	—
CULVERT (Existing)	—
UTILITY POLE	●
"P" LINE	○
LINE TO BE CONSTRUCTED	— (57)
MILE POST	—
RIGHT-OF-WAY LINE	—
TRAVELED WAY	—
R.O.W. MONUMENTS	⊕
SET BACK LINE	—
CULVERT (To be installed)	—

TYPE OOII IMPROVEMENT

PROJECT DESIGNATION	ADT (1961)	ADT (1980)
ADT	33	200
DHV	130	
D	60%	
T	25%	

NOTE:
 Detailed Cross Sections and Soils Profile for this project are available for inspection in the Federal Highway Projects Office, Region 10, Bureau of Public Roads - Juneau, Alaska.

AS BUILT PLANS
 Signed Resident Engineer

APPROVED
[Signature]
 REGIONAL ENGINEER
 BUREAU OF PUBLIC ROADS
 REGION 10
 DATE: 1/20/63

SUMMARY OF ESTIMATED QUANTITIES

STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	7	2	1963	3	24

The following is an approximate estimate of quantities and no responsibility for their accuracy is assumed. No allowance will be made for anticipated profit or loss incurred due to the increase, decrease or elimination of any of the quantities shown that may be found necessary during construction.

ITEM NO.	100 (3)	100 (4)	101 (1)	102 (1)	102 (4)	102 (8)	103 (1)	103 (4)	104 (1)	105 (2)	105 (3)	453(4E)	453(4G)	453(4H)	453(4I)	453(4K)	454(4E)	455(4I)	456 (2)	460(4E)	460(4G)	460(4H)	460(4I)	460(5E)	584 (1)	102 (II)	REMARKS	
STATION TO STATION	CLEARING and GRUBBING	PIT CLEARING and GRUBBING	Selective Removal of trees & shrubs	Unclassified Excavation	Borrow Excavation Case. I.	Stripping Borrow Pits Case. I.	Excavation for Structures	Bedding Material Class B.	Special Subbase Grading B.	Overhaul 1000' F.H.	Overhaul of Borrow Case. I. 1000' F.H.	18" Asb. bonded Corrugated Metal pipe	24" Asb. bonded Corrugated Metal pipe	30" Asb. bonded Corrugated Metal pipe	36" Asb. bonded Corrugated Metal pipe	48" Asb. bonded Corrugated Metal pipe	36"x22" Asb. bonded Corrugated Metal pipe Arch	8'-7"x5'-11" Bit. Coated Str. Plate Pipe Arch	Remove Clean & Relay Salvaged Culvert pipe	Bit. Coated Metal end Sections for 18" pipe Culverts	Bit. Coated Metal end Sections for 24" pipe Culverts	Bit. Coated Metal end Sections for 30" pipe Culverts	Bit. Coated Metal end Sections for 36" pipe Culverts	Bit. Coated Metal end Sections for 36"x22" Pipe Arch Culverts	Standard Signs	Stripping Crystal Cr. Borrow Pit		
	ACRES	ACRES	SQ. FT.	CU. YDS.	CU. YDS.	CU. YDS.	CU. YDS.	CU. YDS.	CU. YDS.	YD. MI.	YD. MI.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	EACH	EACH	EACH	EACH	EACH	EACH	CU. YDS.		
998+31								5									58		30	2							Skew 40° Lt. Fwd.	
1000+06							7	2				12															" " 15° Rt. " "	
1003+14							16	14											40								Relay	
1003+14							2	2				14									1						Skew 20° Rt. Fwd.	
1006+57							2	3				22									1						Extend	
1009+50																											" "	
Sheet No. 10. 1010 ~ 1040	3.395		29	4,122	1,187				3,543		779																	Skew 10° Lt.
1012+43							24	4				18							40	2							" "	
1015+03							17	6				28		48					24	2							Install	
1018+00							40	10																			Skew 20° Lt. Fwd.	
1021+65							7	5				30									1						" " 30° Rt. " "	
1022+81							7	6						24													Extend	
1025+92							7	6				32															Skew 15° Rt. Fwd.	
1032+60							6	4				16							34	2							" " 30° " "	
1036+76							4	3																			" "	
Sheet No. 11. 1040 ~ 1070	4.337		29	7,511	3,031				3,391		3,733																	Install
1041+00							28	10				22		52							2						Extend	
1043+00							9	3																			Skew 25° Lt. Fwd.	
1044+83							4	1				14		4							2						" " 35° Rt. " "	
1049+85							6	3																			Install	
1053+00							28	9						46							2						Skew 15° Lt. Fwd.	
1058+02							7	3				16									2						" " 40° Rt. " "	
1059+94							4	4				22							36	2							Extend	
1061+74							4	5				24									1						" "	
1065+58							12	3				18							30		1						" "	
Sheet No. 12. 1070 ~ 1100	5.253		29	9,655	1,302				3,548		2,384																	Skew 10° Lt. Fwd.
1070+36							14	3				16									1						" " 15° Rt. " "	
1070+89							16	7				24									1						" " " "	
1072+08							11	4				36															Extend	
1073+30							5	4				20															" "	
1074+09							6	6				30															" "	
1075+29							22	6				34									1						" "	
1077+37							6	2				6															Skew 10° Rt. Fwd.	
1079+05							16	3				18									2						Extend	
1080+00							14	4				24									2						Skew 10° Lt. Fwd.	
1081+27							8	6						30													" "	
1083+61							14	4				20									1						" " Rt. " "	
1085+56							16	3				16															Extend	
1086+60							13	3				16															" "	
1087+50							7	2						36													Skew 10° Lt. Fwd. (Rem. & Dis. 14' Existing Stable)	
1089+71							13	2				20									1						Extend	
1091+15							9	4				18									2						" "	
1093+72							12	4						20													" "	
1096+79							12	4				24									1						" "	
1097+50							16	4				20															" "	
1099+91																					1						" "	
Sheet No. 13. 1100 ~ 1130	4.658		29	7,645	2,609				3,543		6,811																	Skew 8° Rt. Fwd.
1100+90							14	4				16															" " 10° " "	
1102+40							26	5				36															Extend	
1106+88							20	6				26															Skew 10° Rt. Fwd.	
1108+40							16	7						30													Install	
1111+00							14	7																			Extend	
1112+92							7	5				24		38							1						" "	
1115+16							10	6																			" "	
1117+81							9	4				20															" "	
1120+50							14	7				36									1						" "	

APPROVAL RECOMMENDED BY

SUMMARY OF ESTIMATED QUANTITIES

STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	7	2	1963	4	24

The following is an approximate estimate of quantities and no responsibility for their accuracy is assumed. No allowance will be made for anticipated profit or loss incurred due to the increase, decrease or elimination of any of the quantities shown that may be found necessary during construction.

ITEM NO.	100 (3)	100 (4)	101 (1)	102 (1)	102 (4)	102 (8)	103 (1)	103 (4)	104 (1)	105 (2)	105 (3)	453(4E)	453(4G)	453(4H)	453(4I)	453(4K)	454(4E)	455(5I)	456 (2)	460(4E)	460(4G)	460(4H)	460(4I)	460(5E)	584 (1)	102 (11)	REMARKS	
STATION to STATION	CLEARING and GRUBBING	PIT CLEARING and GRUBBING	Selective Removal of trees & snags	Unclassified Excavation	Borrow Excavation Case I.	Stripping Borrow Pits Case I.	Excavation for Structures	Bedding Material Class B.	Special Subbase Grading B.	Overhaul 1000' F.H.	Overhaul of Borrow Case I. 1000' F.H.	18" Asb. bonded Corrugated Metal pipe	24" Asb. bonded Corrugated Metal pipe	30" Asb. bonded Corrugated Metal pipe	36" Asb. bonded Corrugated Metal pipe	48" Asb. bonded Corrugated Metal pipe	36"x22" Asb. bonded Corrugated Metal pipe Arch	8'-7"x5'-11" Str. Plate Pipe Arch	Remove Clean & Relay Salvaged Culvert pipe	Bit. Coated Metal end Sections for 18" pipe Culverts	Bit. Coated Metal end Sections for 24" pipe Culverts	Bit. Coated Metal end Sections for 30" pipe Culverts	Bit. Coated Metal end Sections for 36" pipe Culverts	Bit. Coated Metal end Sections for 36"x22" Pipe Arch Culverts	Standard Signs	Stripping Crystal Ct. Borrow Pit		
	ACRES	ACRES	SQ. FT.	CU. YDS.	CU. YDS.	CU. YDS.	CU. YDS.	CU. YDS.	CU. YDS.	YD. MI.	YD. MI.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	EACH	EACH	EACH	EACH	EACH	EACH	CU. YDS.		
1121+26							18	5				26							44	1							Extend	
1123+85							32	5				24							46	1							Relay @ 1123+85 (Skewed 15° Rt. Fwd.)	
1127+22							9	7				34															Skew 20° Lt. Fwd.	
1128+03							11	4				22															" 25° " " "	
1129+32							9	2				12															Extend	
Sheet No. 14 3.873			29	6,426	2,282						3,540	6,855																
1130+00																												
1131+44							6	1				4																Skew 10° Lt. Fwd.
1133+38							21	10				46							34								" " 45° Rt. " "	
1134+60							16	4				22															" " 25° " " "	
1136+74							12	4				27															" " 45° " " "	
1140+00								3				14							32								Extend	
1142+47							16	7				32															Skew 45° Rt. Fwd.	
1143+29							5	10					50														" " 30° Lt. " "	
1148+79							16	7						50													" " 50° " " (Rem. & Dis. 14' Nestable portion)	
1155+00							12	8					42														Install	
Sheet No. 15 4.078			29	4,995	4,341						3,561	15,735																
1160+00																												
1160+58							8	8				42																Skew 15° Rt. Fwd.
1164+50							17	9					48															Install
1168+00							14	8					46															" "
1170+68							10	3				16																Extend
1172+00							16	10					54															Install
1173+22							16	4				24							36								Extend	
1176+00							15	9					46															Install
1178+74							14	4				24							32									Extend
1182+60							18	10					52															Install
1184+24							12	6				32																Extend
1184+76							6	3				14																" "
1187+11							7	3				26																Skew 5° Lt. Fwd.
1188+32							9	4				32																" " 15° Rt. " "
1189+82							8	6				36																Extend
1184+00																												Curve Sign
Sheet No. 16 0.367			10	180	1133							375	4407															
1190+00																												
1192+00							17	12					58															Install
(HAUL ROAD) Sheet No. 17 1.792				7,306	2,750		65	29				470																
15+00																												
11+00																												
15+00																												
17+00																												
20+00																												
29+00																												
34+50																												
Crystal Ct. Borrow Pit																												10,250
Rock Quarry Lot. Sta. 980																												
Grand Total	43.027	3.285	300	82,821	24,915	4,800	1640	643	33,920	31,606	43,155	1980	962	54	122	0	176	36	1510	98	21	2	2	1	2		10,250	
Contract Quantities	43.5	3.5	300	96,000	30,000	5,500	2,000	750	37,500	33,000	50,000	1980	962	54	122	0	176	36	1510	98	21	2	2	1	2		12,000	

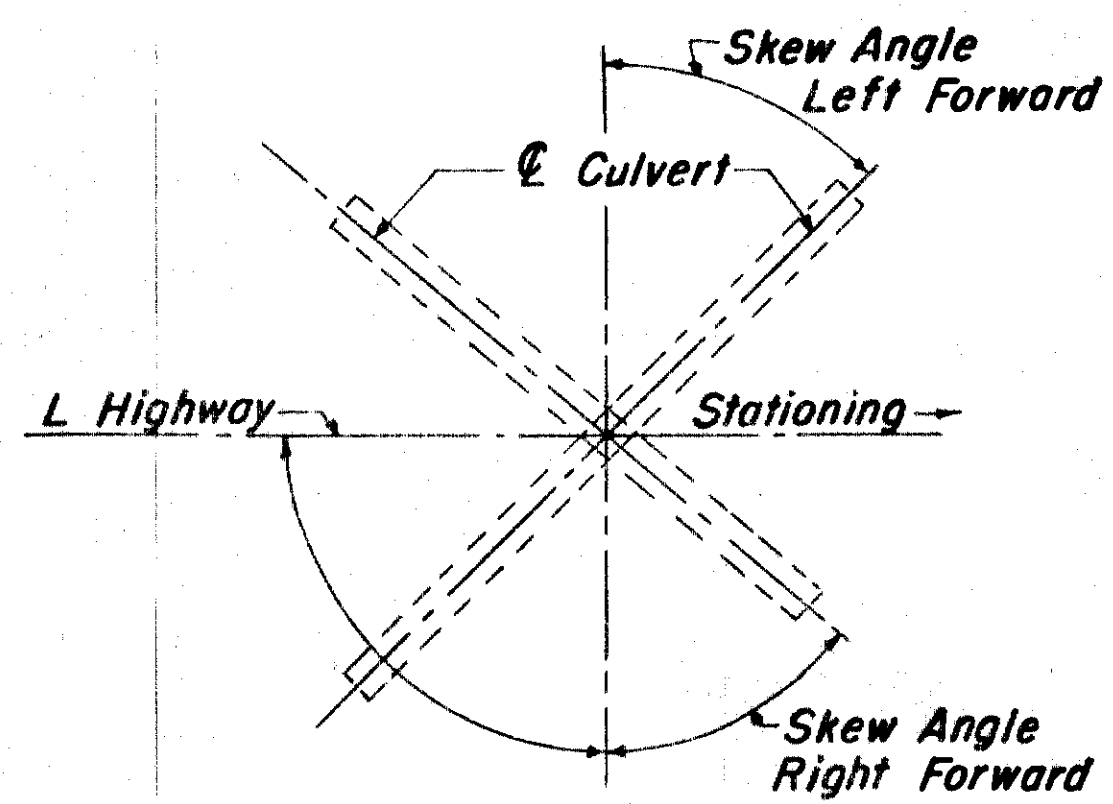
* For estimating purposes only, it is anticipated that approximately 50% of this quantity may be wasted.

Contract quantities include allowances for estimated slides, over breaks, ditches, subgrading & backfill of culvert pipes.

TABLE OF SLOPES

Height of Cut or fill	Earth Slope
0' - 10'	3:1
10' - 15'	2:1
Over 15'	1 1/2:1

In rock, slopes shall be steeper as directed by the engineer.

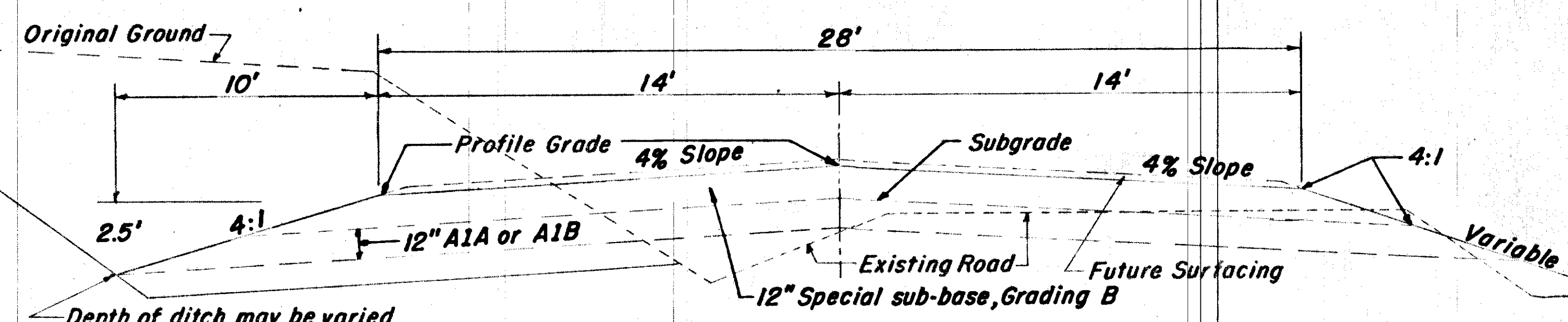


SKIEW ANGLE

SUPERELEVATION TABLE
(Feet per foot of width)

DEGREE OF CURVE	GRADES 0.00% - 3.99%	GRADES 4.00% - 6.00%	GRADES 6.00% - 8.00%
1° 00'	0.04	0.04	0.04
1° 30'	0.04	0.04	0.04
2° 00'	0.04	0.04	0.04
2° 30'	0.05	0.05	0.05
3° 00'	0.06	0.06	0.05
3° 30'	0.07	0.06	0.05
4° 00'	0.08	0.06	0.05
Over 4° 00'	0.08	0.06	0.05

Rate of superelevation shown in feet per foot of roadway. The grades will be carried on the shoulder on tangent and on the inside shoulder of curves, both 14' from centerline.



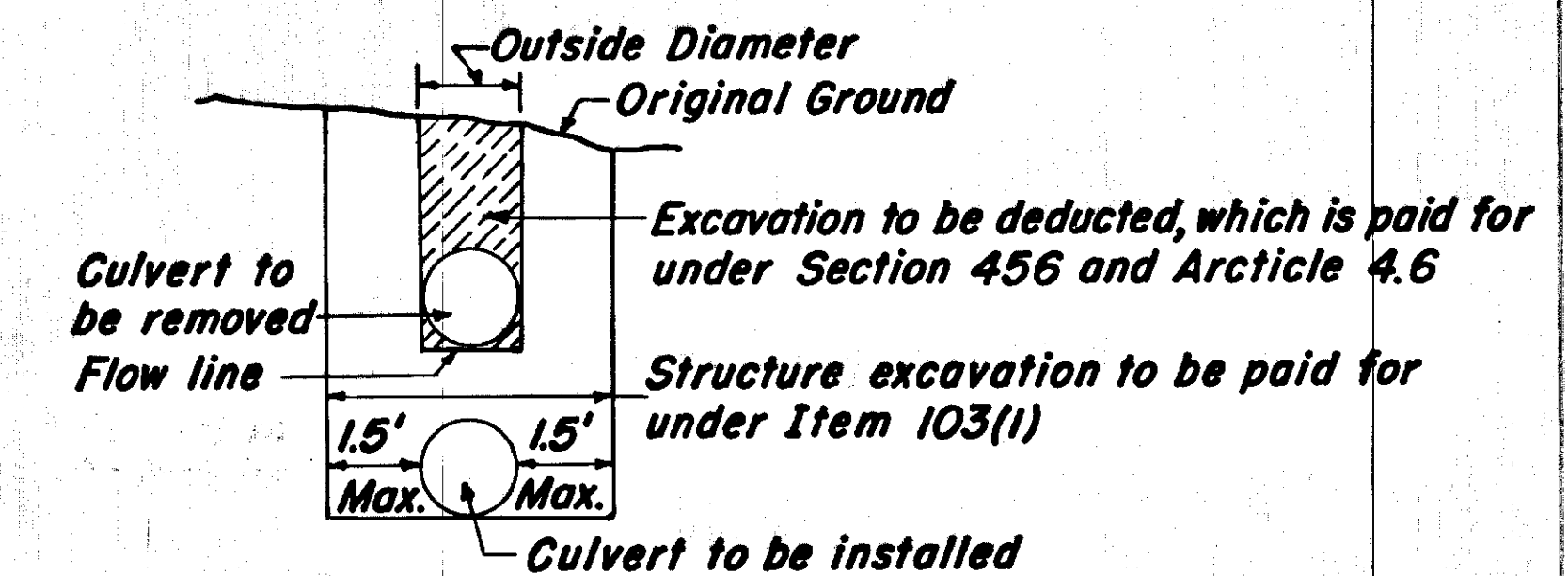
TYPICAL SECTION OF IMPROVEMENT

- GENERAL NOTES**
1. The culvert lengths shown are approximate. The contractor shall not order pipe until the actual lengths are furnished by the Engineer.
 2. Grades and alignment shown on these plans are subject to minor revisions.
 3. Unsuitable unclassified excavation shall be disposed of as shown on the plans or as directed by the Engineer.
 4. Slope rounding will not be required.
 5. All corrugated metal pipe culverts shall be Asbestos Bonded.
 6. All End Sections shall be Bituminous Coated.
 7. All Structural Plate Pipe shall be Bituminous Coated.

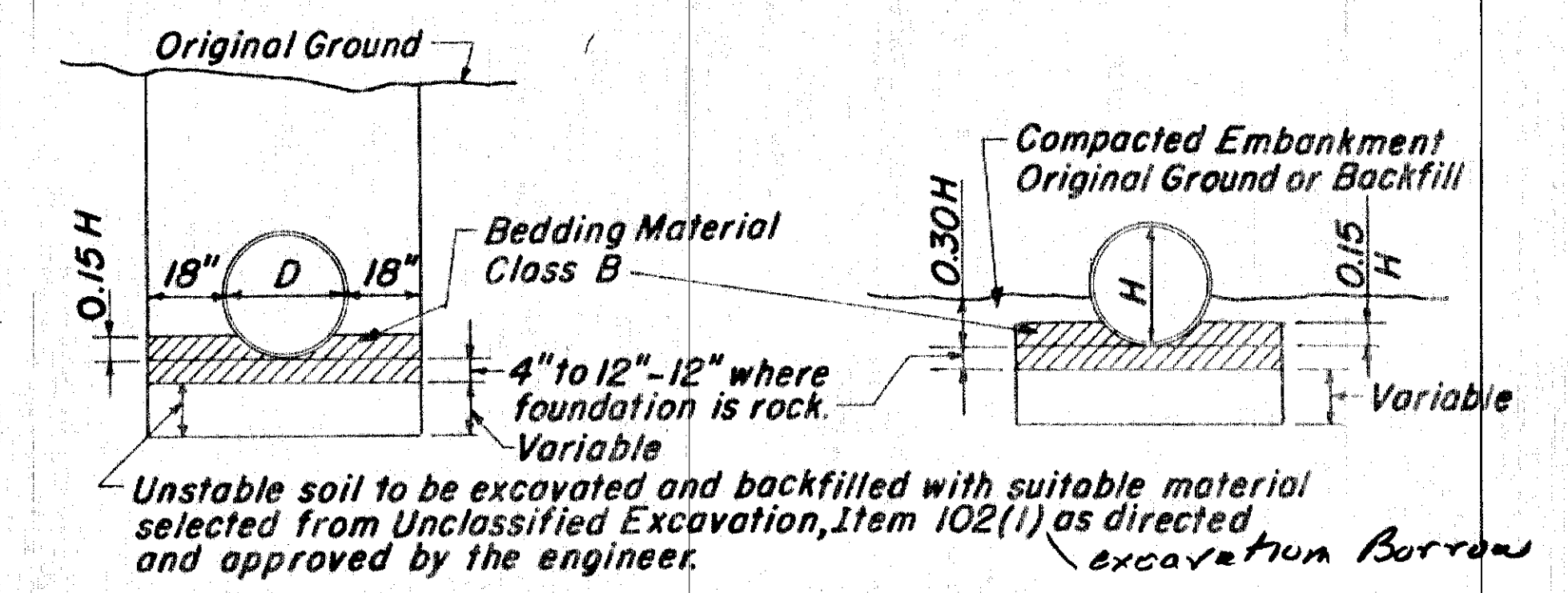
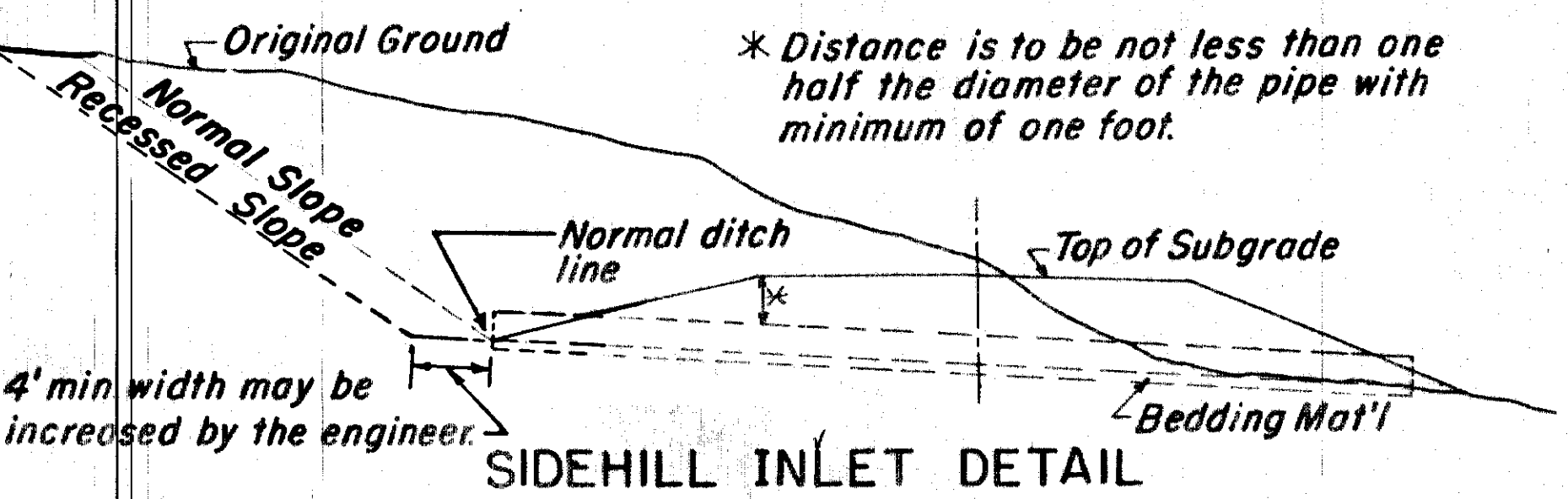
ESTIMATE OF QUANTITIES

ITEM NO.	QUANTITY	UNIT	ITEM
10	All Req'd	Lump Sum	Miscellaneous Force Account Work
100(3)	41.335	Acre	Clearing and Grubbing
100(4)	2.032	Acre	Pit Clearing and Grubbing
101(1)	120.21	Sq. Ft.	Select Removal of Trees and Snags
102(1)	96,000	Cu. Yds.	Unclassified Excavation 86,537.1
102(4)	30,000	Cu. Yds.	Borrow Excavation, Case 1 53,038.6
102(8)	5,000	Cu. Yds.	Stripping Borrow Pit, Case 1 10,321
102(11)	12,000	Cu. Yds.	Stripping Crystal Creek Borrow Pit
103(1)	2,000	Cu. Yds.	Excavation for Structures 1,869.3
103(4)	750	Cu. Yds.	Bedding Material, Class B
104(1)	37,500	Cu. Yds.	Special Subbase, Grading B 30,252.2
105(2)	33,000	Yd. Mi.	Yard Mile Overhaul 429
105(3)	50,000	Yd. Mi.	Overhaul of Borrow, Case 1 88,425
453(4E)	199,919.80	Lin. Ft.	18" Asbestos-bonded Corrugated Metal Pipe, 16 Gage
453(4G)	349.6	962	Lin. Ft. 24" " " " " " 14 "
453(4H)	54	Lin. Ft.	30" " " " " " 14 "
453(4I)	122	Lin. Ft.	36" " " " " " 12 "
454(4E)	181	176	Lin. Ft. 36" x 22" Asbestos-bonded Corrugated Metal Pipe Arch, 14 Ga.
455(4I)	36	Lin. Ft.	8'-7" x 5'-11" Bit-coated Structural-Plate Pipe Arch
456(2)	970,915	10	Lin. Ft. Remove, Clean and Relay Salvaged Culvert Pipe
460(4E)	97	98	Ea. Bit-coated Metal End Sections for 18" Pipe Culvert
460(4G)	21	Ea.	" " " " " " 24" " "
460(4H)	2	Ea.	" " " " " " 30" " "
460(4I)	2	Ea.	" " " " " " 36" " "
460(5E)	1	Ea.	" " " " " " 36" x 22" Pipe Arch
584(1)	2	Ea.	Standard Signs
102(4A)	5,940	Cu. Yd	Beach Borrow Excavation (Change Order No. 1)
104(1A)	4,276.4	Cu. Yd	Special Subbase, Grading B (Change Order NO 2)

AS BUILT PLANS
Signed Resident Engineer

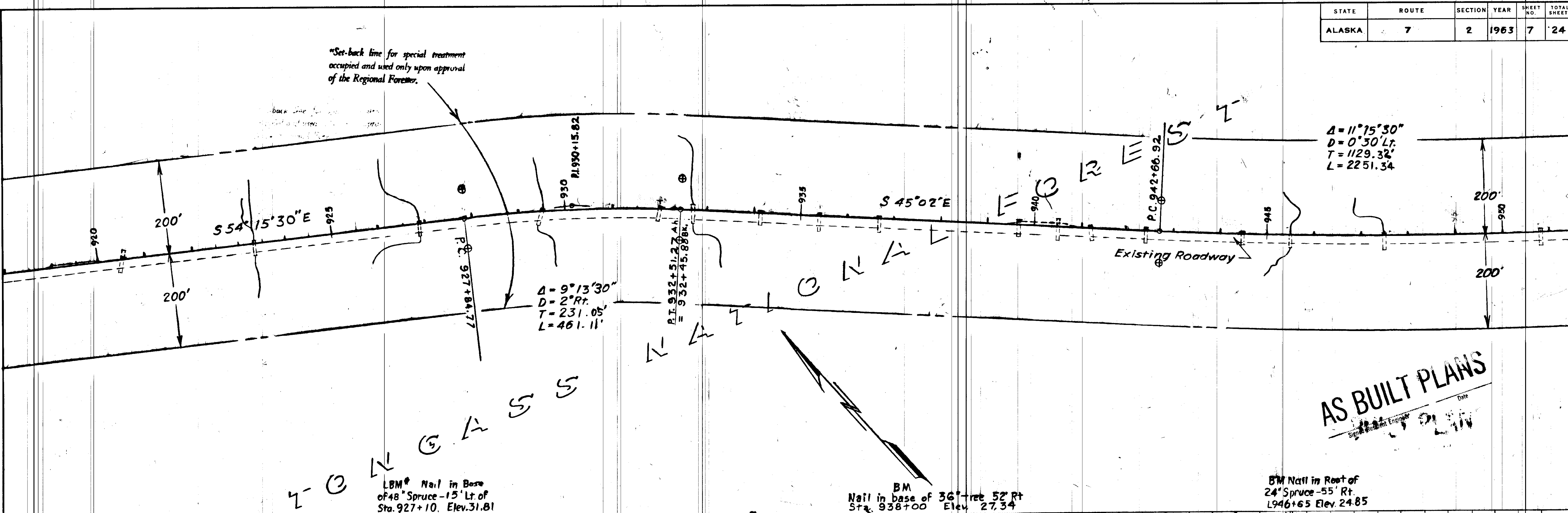


SKETCH showing method of measurement for structure excavation when excavation for installing pipe culvert is within the limits of the excavation for removing pipe culvert.

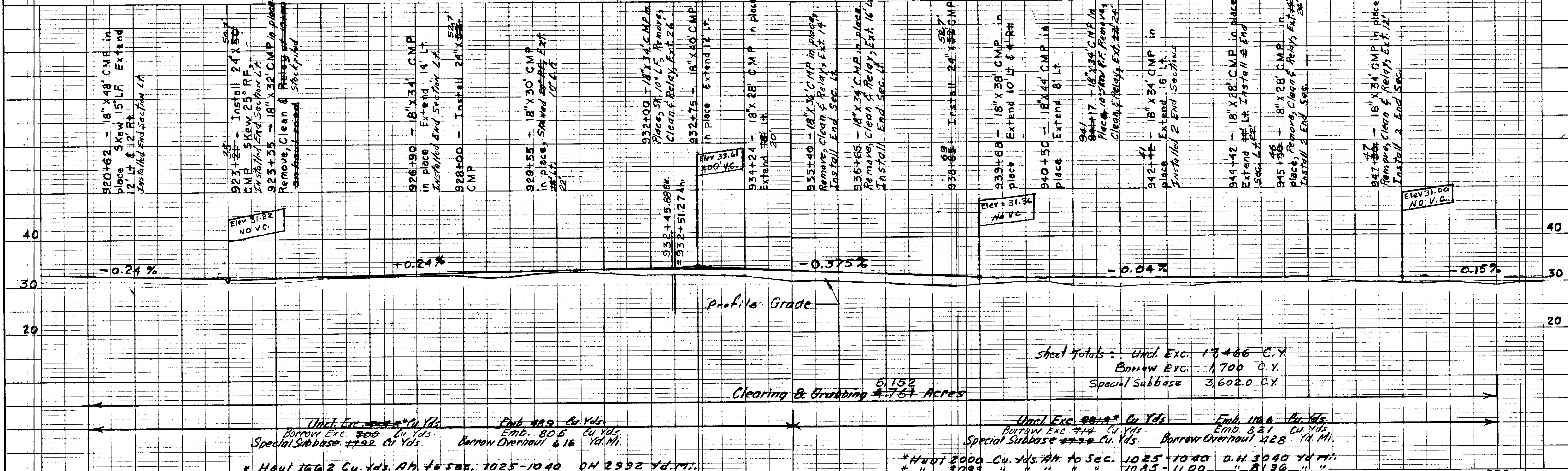


TYPICAL SECTIONS SHOWING BEDDING DETAILS FOR CULVERTS

STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	7	2	1963	7	24

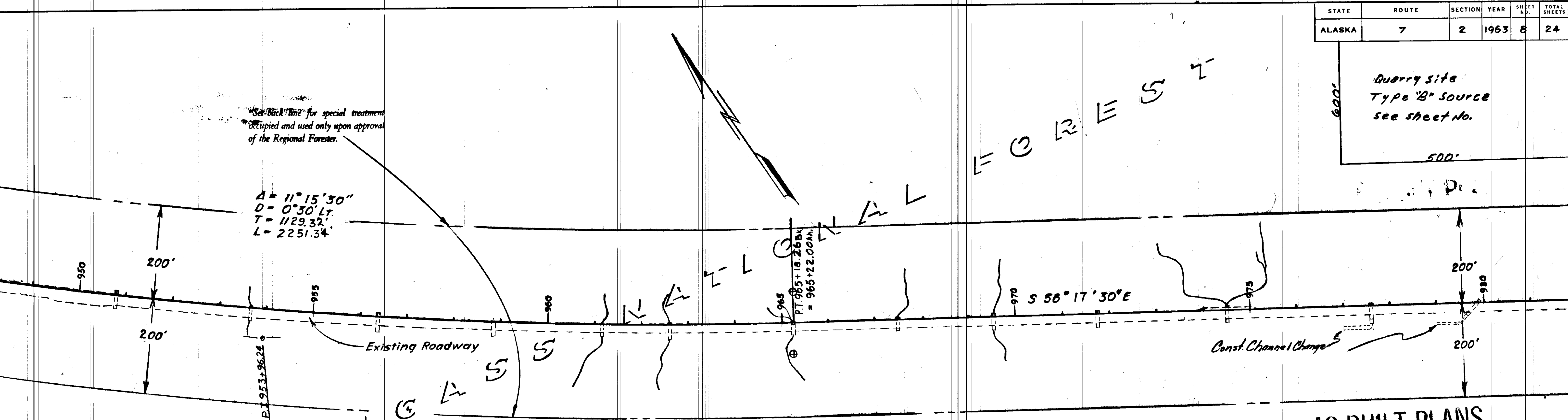


AS BUILT PLANS
 Date: 12/2/63
 Engineer: [Signature]



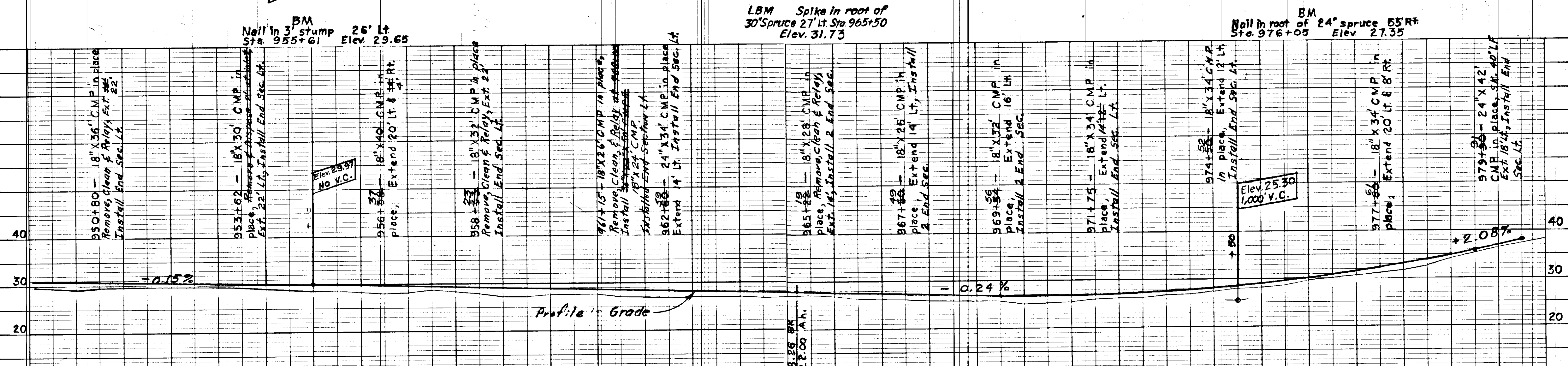
STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	7	2	1963	8	24

Quarry site
Type 'B' source
see sheet No.



AS BUILT PLANS

Signed Resident Engineer _____ Date _____



Station	Cu. Yds.	yd. M.
* Haul 1330	1100-1115	OH = 5789
" 2692	1145-1160	" = 9530
" 1071	1160-1175	" = 4059

Sheet Totals: Uncl. Exc. 12,183 C.Y.
Borrow Exc. 5,000 C.Y.
Special Subbase 3,602.1 C.Y.

Clearing & Grubbing 4.836 Acres

Uncl. Exc. ~~12,183~~ Cu. Yds. Emb 26 Cu. Yds.
Borrow Exc. ~~5,000~~ Cu. Yds. Emb 1720 Cu. Yds.
Spcl. Subbase ~~3,602.1~~ Cu. Yds. overhaul of Borrow 464 yd. M.

Uncl. Exc. ~~12,183~~ Cu. Yds. Emb 382 Cu. Yds.
Borrow Exc. ~~5,000~~ Cu. Yds. Emb 1532 Cu. Yds.
Spcl. Subbase ~~3,602.1~~ Cu. Yds. overhaul of Borrow 144 yd. M.

Quarry Site
Type B Source

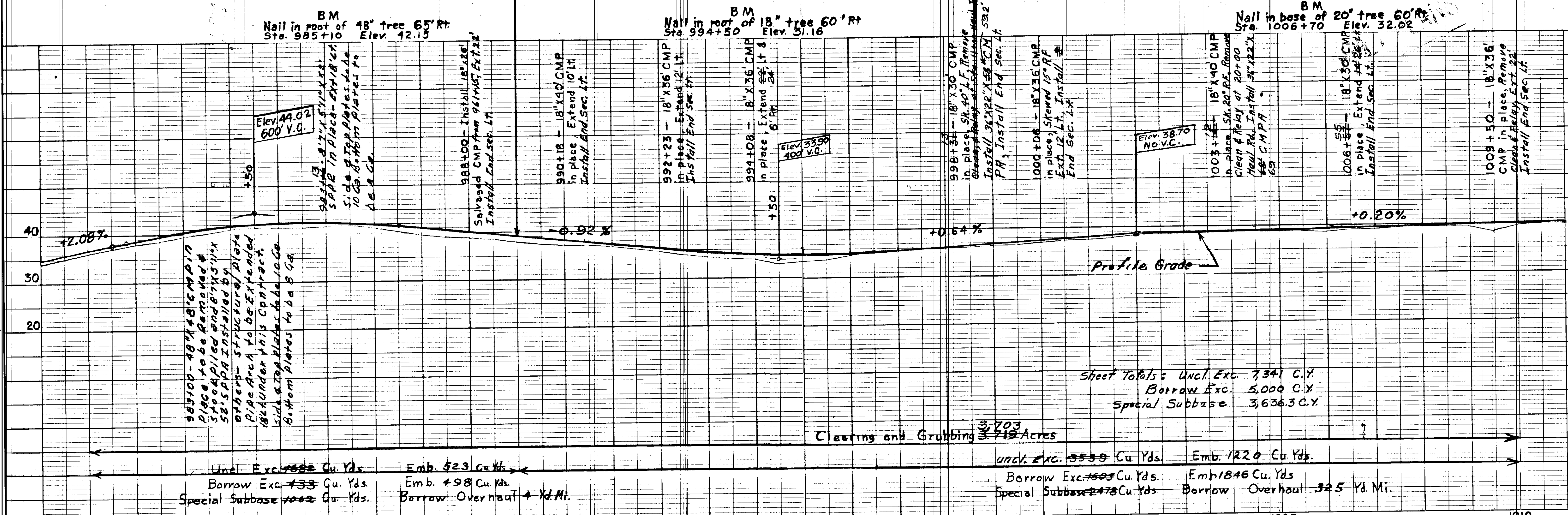
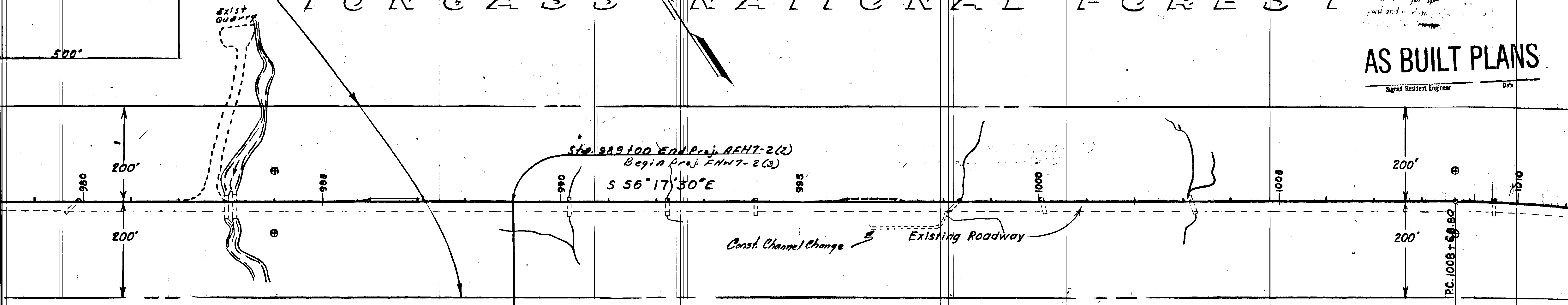
Set-back line for special treatment occupied and used only upon approval of the Regional Forester.

Z O N E A S S E S S M E N T N A T I O N A L F O R E S T

AS BUILT PLANS

Signed Resident Engineer _____ Date _____

DATE _____
BY _____
SURVEYED _____
PLOTTED _____
CHECKED _____
NOTE BOOK ALIGNMENT CHECKED _____
NO. _____
RT. OF WAY CHECKED _____
NO. _____



B.M. Nail in root of 18" tree 65' Rt. Sta. 985+10 Elev. 42.15

B.M. Nail in root of 18" tree 60' Rt. Sta. 994+50 Elev. 31.16

B.M. Nail in base of 20" tree 60' Rt. Sta. 1006+70 Elev. 32.02

983+00 - 48" x 48" CMP in place to be removed & replaced with 18" x 36" CMP. 5215 SPPA installed by others - structural plate pipe Arch to be extended behind this contract. Side & top plates to be 10 Ga. Bottom plates to be 10 Ga.

Sheet Totals: Uncl. Exc. 7,341 C.Y.
Borrow Exc. 5,000 C.Y.
Special Subbase 3,636.3 C.Y.

Clearing and Grubbing 3,703 3.719 Acres

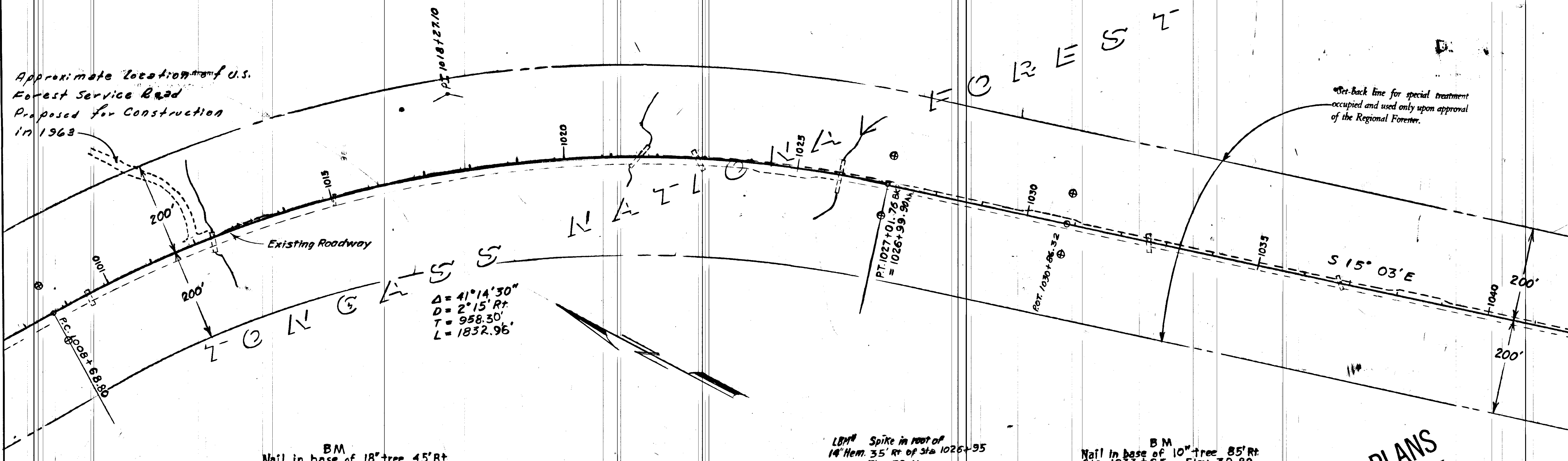
Uncl. Exc. 1,682 Cu. Yds. Emb. 523 Cu. Yds.
Borrow Exc. 1,333 Cu. Yds. Emb. 198 Cu. Yds.
Special Subbase 1,022 Cu. Yds. Borrow Overhaul 4 Yd. Mi.

Uncl. Exc. 5,559 Cu. Yds. Emb. 1,220 Cu. Yds.
Borrow Exc. 1,605 Cu. Yds. Emb. 1,846 Cu. Yds.
Special Subbase 2,478 Cu. Yds. Borrow Overhaul 325 Yd. Mi.

DATE _____
BY _____
SURVEYED _____
PLOTTED _____
CHECKED _____
NOTE BOOK ALIGNMENT CHECKED _____
NO. _____
STRUCTURE NOTATION CHECKED _____
NO. _____

STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	7	2	1963	10	24

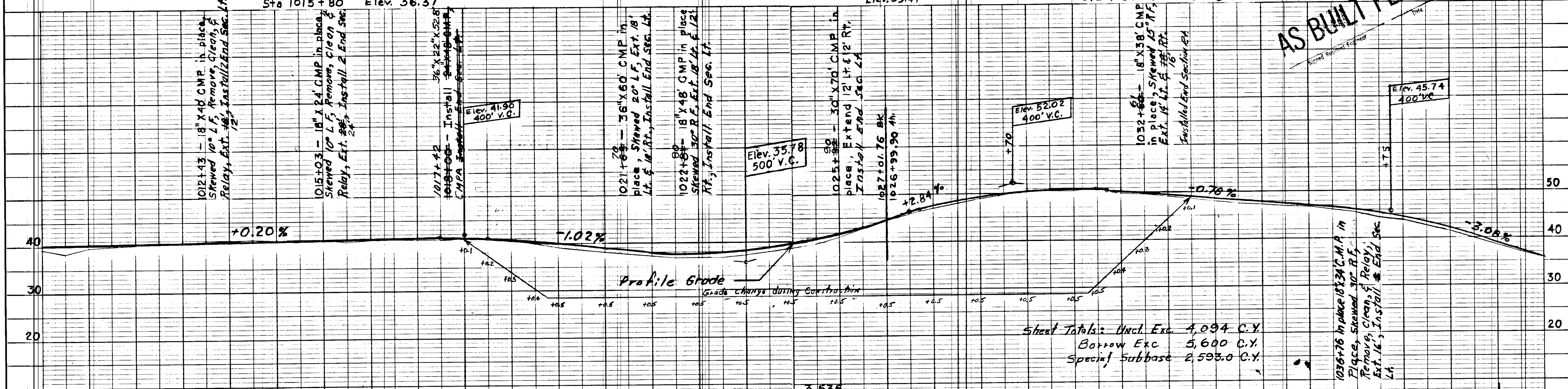
Approximate location of U.S. Forest Service Road Proposed for Construction in 1963



BM Nail in base of 18" tree 45' Rt Sta 1015+80 Elev. 36.37

BM Spike in root of 14" Hem. 35' Rt of Sta 1025+95 Elev. 39.41

BM Nail in base of 10" tree 85' Rt Sta. 1033+85 Elev. 39.89



1012+43 - 18" X 48' CMP in place, Skewed $10^{\circ} L$, Remove, Clean, & Relay, Ext. 16', Install End Sec. Lt.

1015+03 - 18" X 24' CMP in place, Skewed $10^{\circ} L$, Remove, Clean, & Relay, Ext. 16', Install End Sec. Lt.

1017+42 - 36" X 32' X 52' CMPA, Install End Sec. Lt.

1021+70 - 36" X 60' CMP in place, Skewed $20^{\circ} L$, Ext. 18' Lt. & 18' Rt., Install End Sec. Lt.

1022+80 - 18" X 48' CMP in place, Skewed $30^{\circ} R$, Ext. 18' Lt. & 12' Rt., Install End Sec. Lt.

1025+90 - 30" X 70' CMP in place, Extend 12' Lt. & 12' Rt., Install End Sec. Lt.

1032+80 - 18" X 38' CMP in place, Skewed $15^{\circ} R$, Ext. 14' Lt. & 14' Rt., Install End Sec. Lt.

1036+76 in place 18" X 34' C.M.P. in place, Skewed $30^{\circ} R$, Remove, Clean, & Relay, Ext. 16', Install End Sec. Lt.

Sheet Totals: Uncl Exc 4,094 C.Y.
Borrow Exc 5,600 C.Y.
Special Subbase 2,593.0 C.Y.

Clearing & Grubbing 3.535 Acres

Uncl Exc ~~3376~~ Cu Yds Emb 1119 Cu Yds
Borrow Exc ~~947~~ Cu Yds Emb 1089 Cu Yds
Special Subbase ~~1770~~ Cu Yds Borrow Overhaul 568 Yd Mi

Uncl Exc ~~806~~ Cu Yd Emb 2963* Cu Yds
Borrow Exc ~~240~~ Cu Yd Emb 276 Cu Yds
Special Subbase ~~1770~~ Cu Yd Borrow Overhaul 211 Yd Mi

* Haul 166 Cu Yds From Sec. 980-995 & 2000 Cu Yds From 995-950

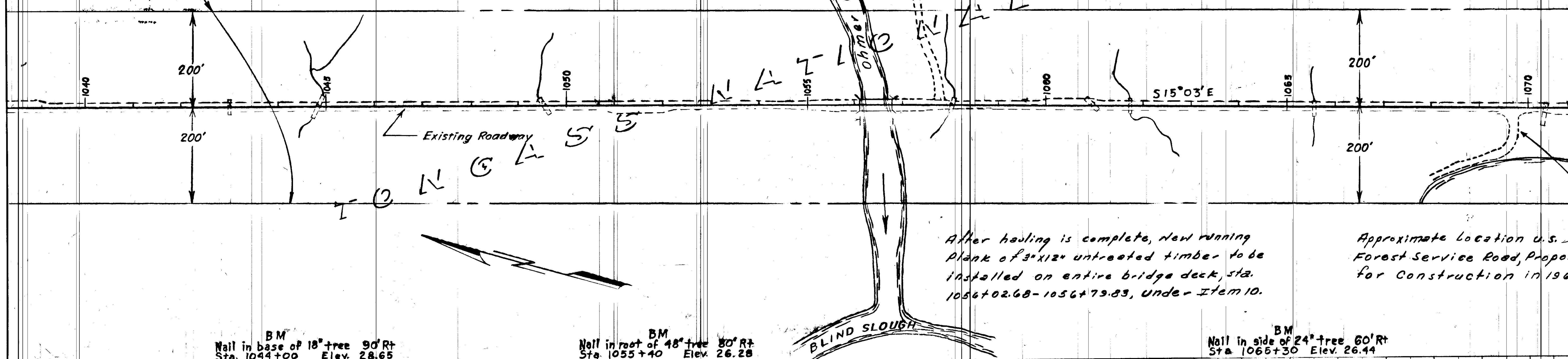
AS BUILT PLANS

STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	7	2	1963	11	24

AS BUILT PLANS

Signed Resident Engineer _____ Date _____

*Set-back line for special treatment occupied and used only upon approval of the Regional Forester.



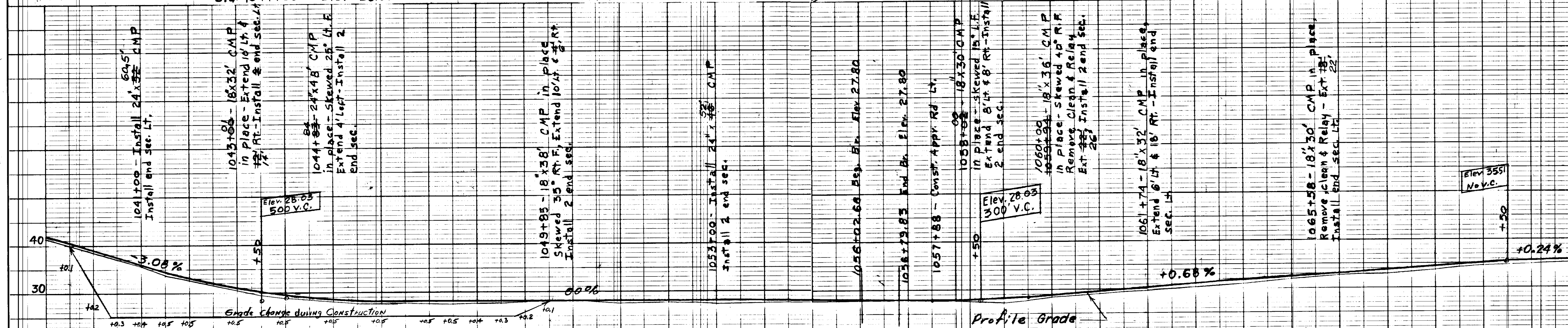
After hauling is complete, New running plank of 3"x12" untreated timber to be installed on entire bridge deck, sta. 1056+02.68-1056+79.83, under Item 10.

Approximate Location U.S. Forest Service Road, Proposed for Construction in 1963.

BM Nail in base of 18" tree 90' Rt Sta. 1044+00 Elev. 28.65

BM Nail in root of 48" tree 80' Rt Sta. 1055+40 Elev. 26.28

BM Nail in side of 24" tree 60' Rt Sta. 1065+30 Elev. 26.44



Sheet Totals: Uncl. Exc. 7,498 C.Y.
Borrow Exc. 6,000 C.Y.
Special Subbase 2,563.1 C.Y.

Clearing & Grubbing 4.33 Acres

Uncl. Exc. 3365 Cu.Yds.	Emb. 85 Cu.Yds.	Uncl. Exc. 445 Cu.Yds.	Emb. 1240 Cu.Yds.
Borrow Exc. 2282 Cu.Yds.	Emb. 2624 Cu.Yds.	Borrow Exc. 749 Cu.Yds.	Emb. 861 Cu.Yds.
Special Subbase 1770 Cu.Yds.	Borrow Overhaul 2847 Yd.Mi.	Special Subbase 462 Cu.Yds.	Borrow Overhaul 1086 Yd.Mi.

NOTE BOOK
 NO. _____
 PLOTTED
 ALIGNMENT CHECKED
 RT. OF WAY CHECKED

NOTE BOOK
 NO. _____
 GRADES CHECKED
 B. M. S. NOTED
 STRUCTURE NOTATIONS CHECKED

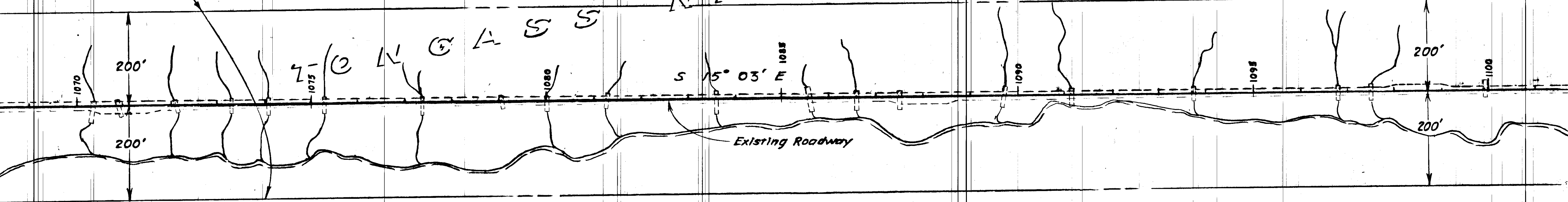
STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	7	2	1963	12	24

AS BUILT PLANS
Signed Resident Engineer

Set-back line for special treatment occupied and used only upon approval of the Regional Forester.

NATIONAL
LOCAL

LOCAL

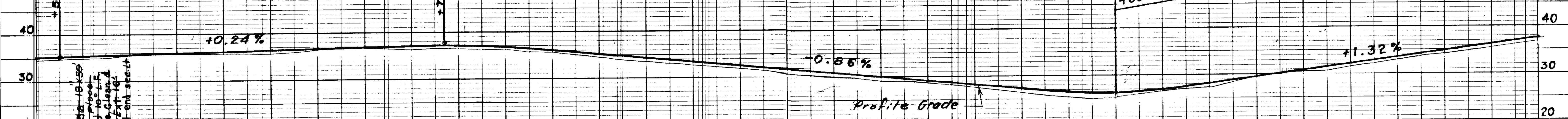


BLIND SLOUGH

Nail in 24" BM Rt. of Sta. 1076+20 Elev. 29.47

Spike in 24" BM Hemlock 45' Rt. Sta. 1096+35 Elev. 23.40

1070+50 - 18"x36" CMP in place - Skewed 15° R.F. Remove, Clean & Relay normal - Extend 24' 18' Install end sec. Lt.	1072+20 - 18"x28" CMP in place - Skewed 15° R.F. Remove, Clean & Relay - Install end sec. Lt. 26'	1073+50 - 18"x30" CMP in place - Extend 24' 14' Rt. Install end sec. Lt.	1074+50 - 18"x36" CMP in place - Extend 24' 18' Rt. Install end sec. Lt.	1075+50 - 18"x34" CMP in place - Remove, Clean & Relay - Extend 24' 18' Install end sec. Lt.	1077+50 - 18"x38" CMP in place - Extend 24' 18' Install end sec. Lt.	1079+50 - 18"x28" CMP in place - Skewed 15° R.F. Remove, Clean & Relay, Ext. 18', Install 2 End Sec.	1080+00 - 18"x32" CMP in place - Remove, Clean & Relay - Ext. 20' Install 2 End Secs. Lt.	1081+50 - 24"x32" CMP in place - Sk. 10° L.F. Ext. 6' Lt. & 2' Rt. Install 2 End Secs. 18'	1083+50 - 18"x52" CMP in place - Install 2 End Secs. Lt. Extend CMP 6' Lt.	1085+50 - 18"x50" CMP in place - Sk. 10° R.F. - Ext. 24' 2' Rt. Install End Sec. Lt.	1087+50 - 18"x38" CMP in place - Remove, Clean & Relay - Extend 24' 18' Install End Sec. Lt. & 10' Rt.	1089+50 - 18"x44" CMP in place - Sk. 10° L.F. (30' Riveted Pipe 14' Mastable Pipe) - Remove, Clean & Relay - Extend 24' 16' Rt. Install end Sec. Lt.	1091+50 - 18"x38" CMP in place - Remove, Clean & Relay - Extend 24' 16' Rt. Install 24"x60.6" CMP	1093+50 - 18"x32" CMP in place - Ext. 24' Lt. & 14' 18' Install 11' 8' End Sec. Lt.	1096+50 - 24"x42" CMP in place - Remove, Clean & Relay - Ext. 8' Lt. & 12' Rt. 1097+50 - 18"x38" CMP in place - Remove, Clean & Relay - Ext. 4' Lt. & 16' Rt.	1099+50 - 18"x36" CMP in place - Remove, Clean & Relay - Ext. 20' - Install 11' End Sec. Lt.
---	---	--	--	--	--	--	---	--	--	--	--	--	---	---	---	--



Sheet Totals & Uncl. Exc. 9,451 C.Y.
Borrow Exc. 6,850 C.Y.
Special Subbase 3,641.9 C.Y.

Clearing & Grubbing 4,794 5,253 Acres

Uncl. Exc. 8754 Cu. Yds. Emb. 2160 Cu. Yds.
Borrow Exc. 848 Cu. Yds. Emb. 975 Cu. Yds.
Special Subbase 7777 Cu. Yds. Borrow Overhaul 1467 Yd. Mi.

Uncl. Exc. 2901 Cu. Yds. Emb. 3140 Cu. Yds. *
Borrow Exc. 454 Cu. Yds. Emb. 522 Cu. Yds.
Special Subbase 777 Cu. Yds. Borrow Overhaul 917 Yd. Mi.
* Haul 3093 Cu. Yds. from Sta. 935 to 950

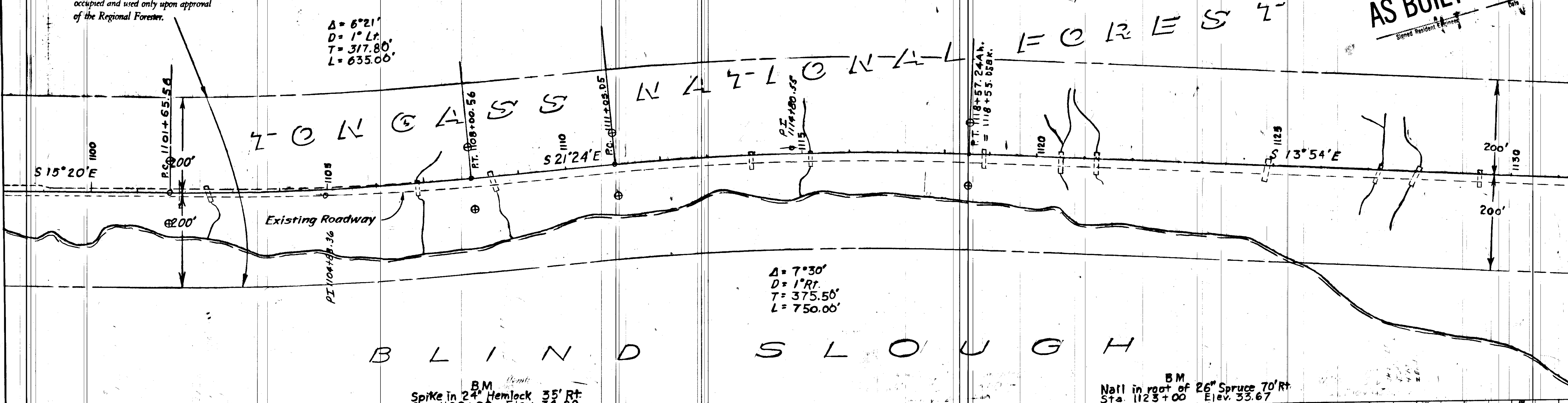
STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	7	2	1963	13	24

AS BUILT PLANS
Signed Resident Engineer

*Set-back line for special treatment occupied and used only upon approval of the Regional Forester.

$\Delta = 6^{\circ}21'$
 $D = 1^{\circ}Lr$
 $T = 317.80'$
 $L = 635.00'$

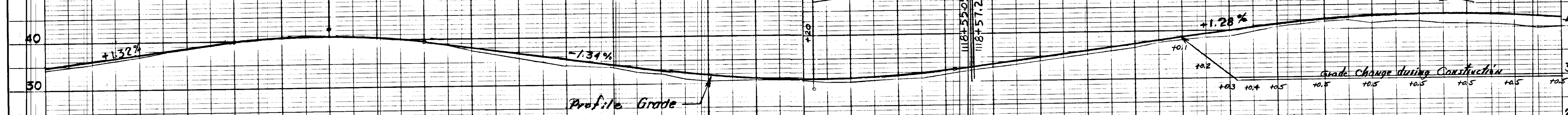
$\Delta = 7^{\circ}30'$
 $D = 1^{\circ}Rr$
 $T = 375.50'$
 $L = 750.00'$



BM Spike in 24" Hemlock 35' Rt. Sta. 1109+00 Elev. 34.89

BM Nail in root of 26" Spruce 70' Rt. Sta. 1123+00 Elev. 33.67

100+88 - 18" X 50' CMP in place. Sk. 8' Rr, Remove, Clean & Relay, Install End Sec. Lt. Ext. 4' Lt. & 6' Rr	102+40 - 18" X 34' CMP in place. Sk. 10' Rr, Remove, Clean & Relay, Ext. 28'	106+88 - 18" X 32' CMP in place. Remove, Clean & Relay. Extend 26', Install End Sec. Lt.	108+48 - 30" X 44' CMP in place. Sk. 10' Rr, Ext. 16' Lt. & 14' Rr, Install End Sec. Lt.	111+00 - Install 24" X 38' CMP. Install 2 End Sec.	112+92 - 18" X 38' CMP in place. Remove, Clean & Relay. Install end sec. Lt. Ext. 16' Lt. & 4' Rr	115+45 - 24" X 30' CMP in place. Extend 14' Lt. & 14' Rr, Install End Sec. Lt.	117+80 - 18" X 40' CMP in place. Extend 16' Lt. & 4' Rr, Install End Sec. Lt.	120+48 - 18" X 42' CMP in place. Extend 16' Lt. & 8' Rr. Install End Sec. Lt.	121+26 - 18" X 44' CMP in place. Remove, Clean & Relay, Extend 26', Install End Sec. Lt. 8' Lt.	123+85 - 18" X 46' CMP in place. Remove, Clean & Relay. Sk. 15' Rr, Ext. 28'. Install End Sec. Lt. & Rr 6' Lt.	127+44 - 18" X 40' CMP in place. Sk. 20' Lt., Ext. 26' Lt. & 4' Rr. Install End Sec. Lt. & Rr. 18" X 44' CMP in place. Sk. 25' Lt., Ext. 28' Lt. & 4' Rr, Install 2 End Sec.	129+44 - 18" X 36' CMP in place. Extend 2' Lt., Install 2 End Sec.
---	--	--	--	--	---	--	---	---	---	--	--	--



Sheet Totals: Uncl. Exc. 7,896 C.Y.
Borrow Exc. 6,100 C.Y.
Special Subbase 3,601.4 C.Y.

Clearing & Grubbing 4.417 Acres

Uncl. Exc. 4065 Cu. Yds.
Borrow Exc. 476 Cu. Yds.
Special Subbase 1772 Cu. Yds.

Emb. 2353 Cu. Yds.*
Emb. 547 Cu. Yds.
Borrow Overhaul 1095 Yd. Mi.
* Haul 1430 Cu. Yds. from sta. 950-965

Uncl. Exc. 2780 Cu. Yds.
Borrow Exc. 2133 Cu. Yds.
Special Subbase 1777 Cu. Yds.

Emb. 458 Cu. Yds.
Emb. 2453 Cu. Yds.
Borrow Overhaul 5716 Yd. Mi.

NOTE: ALL DIMENSIONS CHECKED BY M. J. NOTED STRUCTURE NOTATIONS CH. 100

NOTE: BOOK GRADES CHECKED BY M. J. NOTED STRUCTURE NOTATIONS CH. 100

STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	7	2	1963	14	24

*Set-back line for special treatment occupied and used only upon approval of the Regional Forester.

Set-back line for special treatment occupied and used only upon approval of the Regional Forester.

AS BUILT PLANS

E C R E S Z

Z C L S S

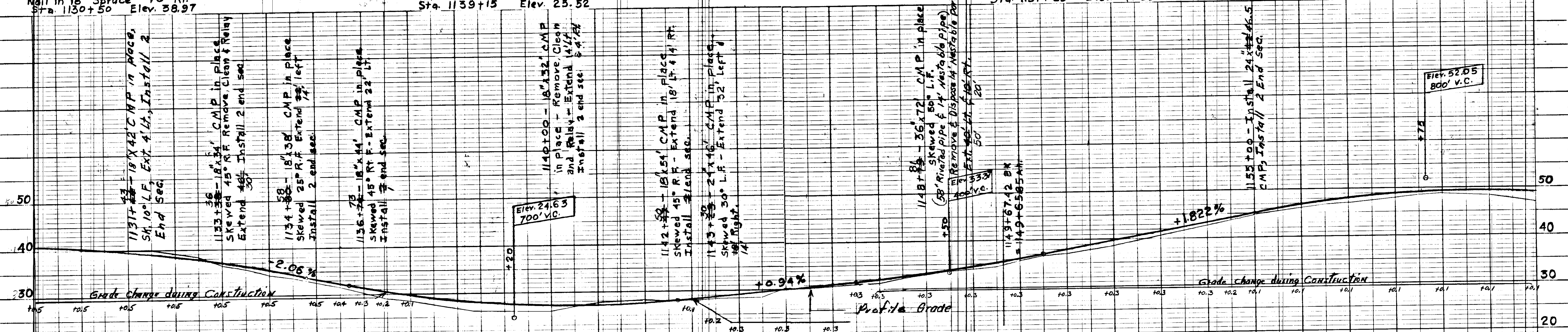
$\Delta = 17^{\circ}20'$
 $D = 1^{\circ}24'$
 $T = 568.50'$
 $L = 1133.33$

BM Nail in 18" Spruce 70' Rt. Sta. 1130+50 Elev. 38.97

BM Nail in base of 20" Hemlock 75' Rt. Sta. 1139+15 Elev. 23.52

BM Spike in base of 16" Cedar 70' Rt. Sta. 1131+25 Elev. 41.63

BM Spike in 30" Cedar stump 100' Rt. Sta. 1059+75 Elev. 42.28



1131+10 - 18" x 42" CMP in place, Sk. 10° L.F. Ext. 4' Lt., Install 2 End Sec.

1133+38 - 18" x 34" CMP in place, Skewed 45° R.F. Remove, Clean & Relay. Extend 46' Install 2 end sec.

1134+80 - 18" x 38" CMP in place, Skewed 25° R.F. Extend 2' left. Install 2 end sec.

1136+26 - 18" x 44" CMP in place, Skewed 45° R.F. - EXTEND 22' Lt. Install 2 end sec.

1140+00 - 18" x 32" CMP in place - Remove, Clean and Relay - Extend 4' Lt. Install 2 end sec. 4' Rt.

1142+50 - 18" x 54" CMP in place, Skewed 45° R.F. - Extend 18' Lt. & 4' Rt. Install 2 end sec.

1143+25 - 2" x 16" CMP in place, Skewed 30° L.F. - Extend 52' Left & 74' Right.

1148+84 - 36" x 12" CMP in place, Skewed 50° L.F. (58' Riveted pipe & 14' Astoria Pipe). Remove & Dispose At 'Astable' Portion. Ext. 46' Lt. & 46' Rt. 50'.

1149+67.12 BK = 1149+65.85

1155+00 - Install 24" x 24" x 46.5" CMPs. Install 2 End Sec.

Sheet Totals: Uncl. Exc. 6,545 C.Y.
 Borrow Exc. 6,850 C.Y.
 Special Subbase 2,568.0 C.Y.

Clearing & Grubbing 4.136 / 3.673 Acres

Uncl. Exc. 3238 Cu. Yds.
 Borrow Exc. #88 Cu. Yds.
 Special Subbase #770 Cu. Yds.

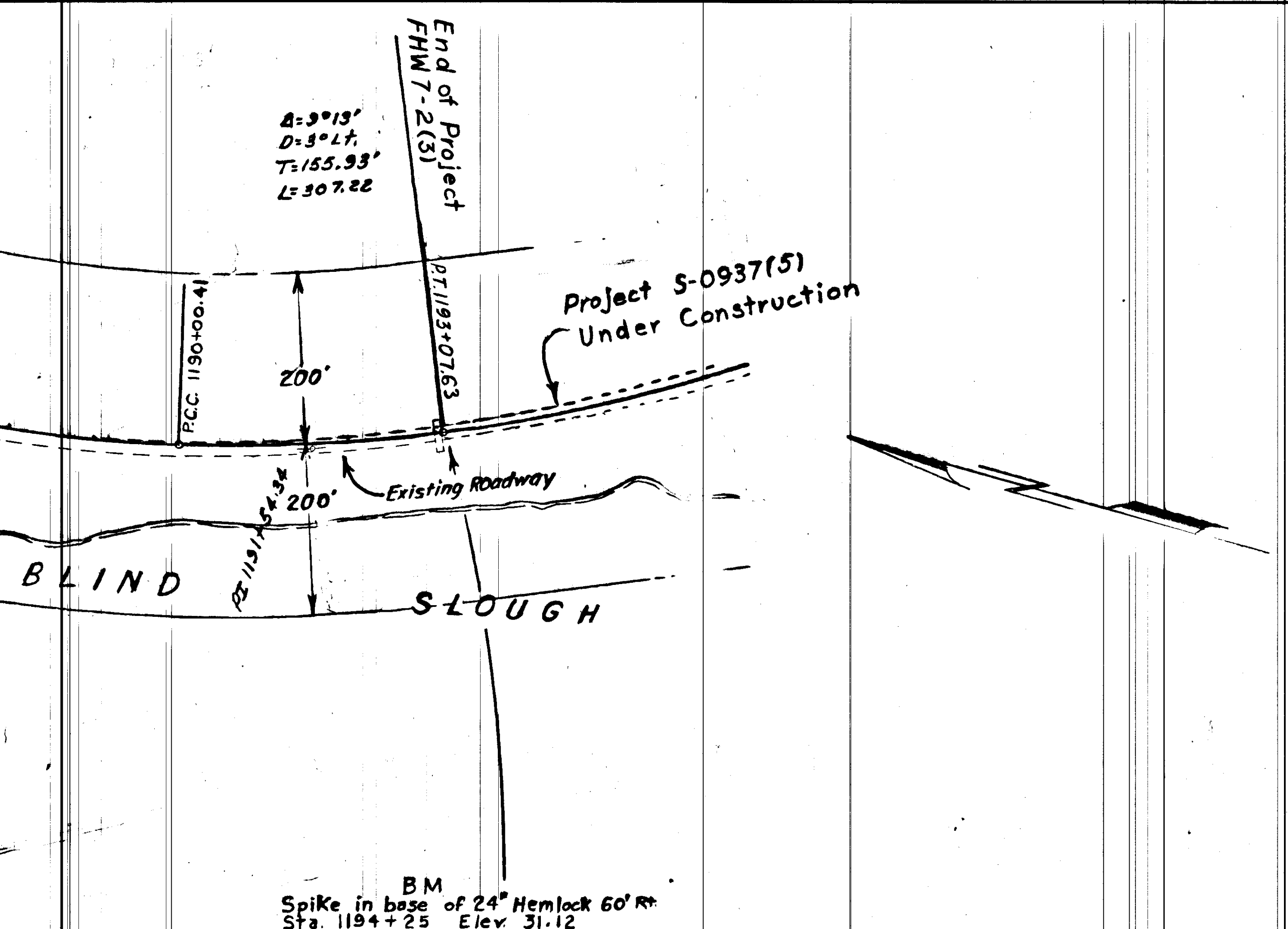
Emb. 694 Cu. Yds.
 Emb. 1366 Cu. Yds.
 Borrow Overhaul 3409 Yd. Mi.

Uncl. Exc. 3198 Cu. Yds.
 Borrow Exc. #94 Cu. Yds.
 Special Subbase #770 Cu. Yds.

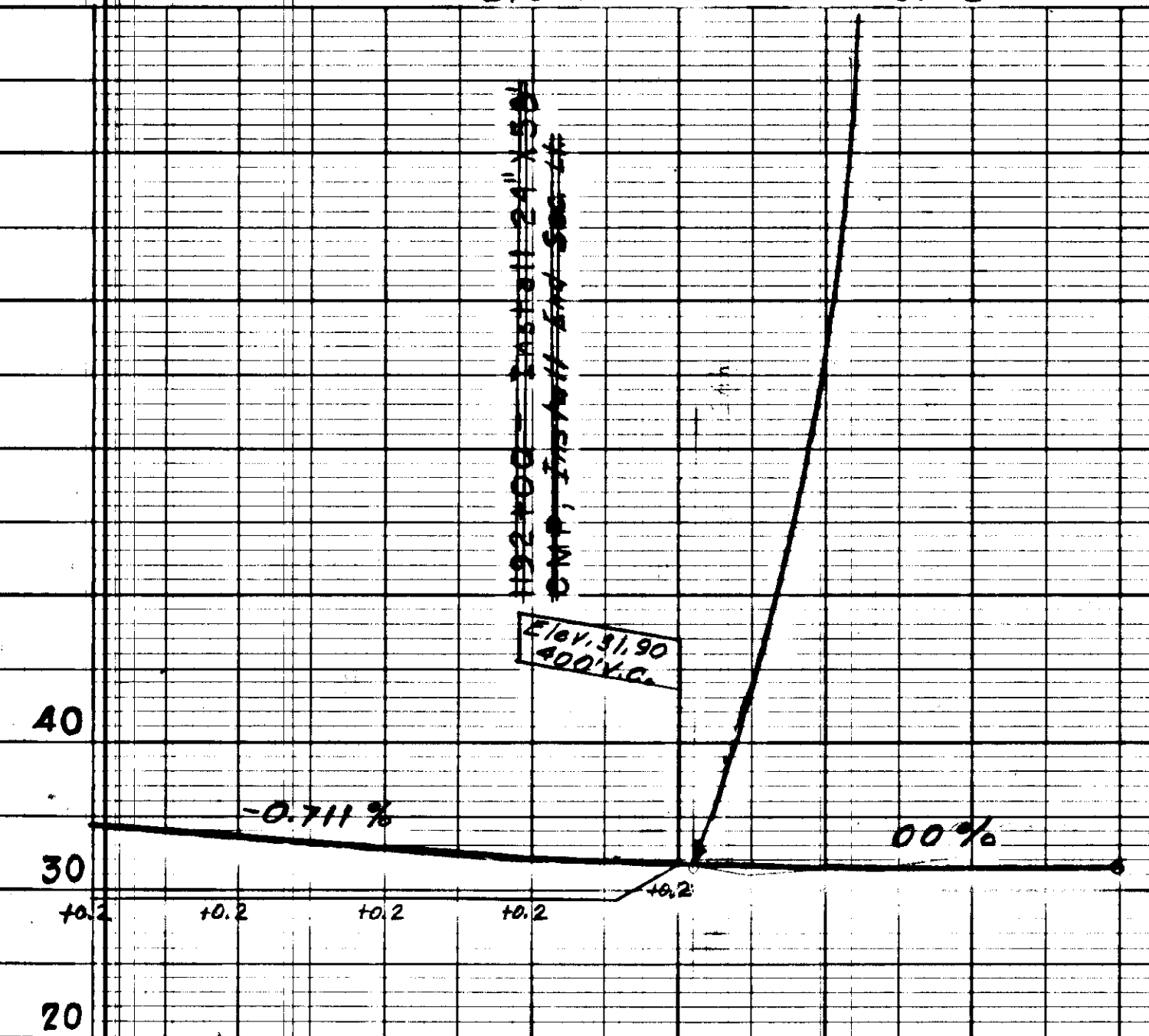
Emb. 2758 Cu. Yds.
 Emb. 1258 Cu. Yds.
 Borrow Overhaul 3446 Yd. Mi.

* Haul 2692 Cu. Yds. Hauled From Sec. 950 - 965

STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	7	2	1963	16	24



BM
Spike in base of 24" Hemlock 60' R.
Sta. 1194+25 Elev. 31.12



Clear & Grub ~~0.383~~ ^{0.382} Acres

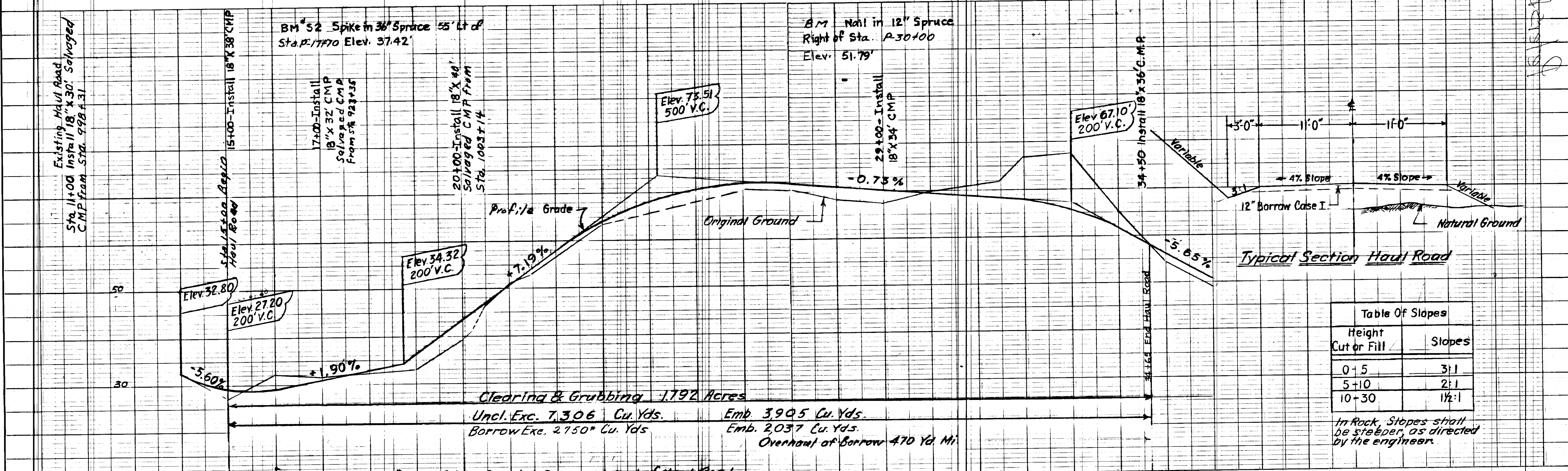
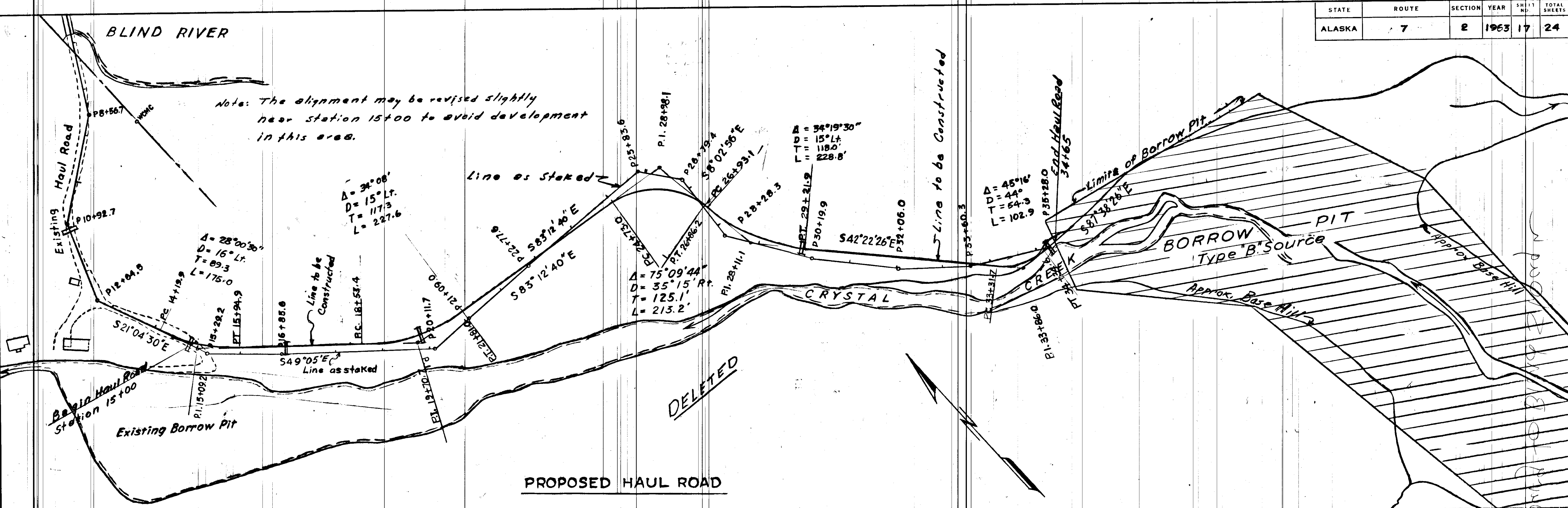
Uncl. Exc. ~~100~~ Cu Yds.
Borrow Exc. ~~1100~~ Cu Yds.
Special Subbase ~~330~~ Cu Yds.

Sheet Totals: Uncl. Exc. 397 C.Y.
Borrow Exc. 1,300 C.Y.
Special Subbase 359.1 C.Y.

Embl. 0 Cu Yds.
Emb. 1303 Cu Yds.
Borrow Overhaul ~~1000~~ Yd. Mi.

AS BUILT PLANS
Signed Resident Engineer _____
Date _____

STATE	ROUTE	SECTION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	7	2	1963	17	24



Approved by the State of Alaska
 Department of Transportation
 Division of Road and Bridge Construction
 Date: 10/15/63

Missing pages 18-24