

**STATE OF ALASKA
DEPARTMENT OF HIGHWAYS**

**PLAN AND PROFILE
PROPOSED HIGHWAY PROJECT**

**F-095-2(4)
KETCHIKAN FERRY TERMINAL PAVING
S-0920(4)**

**WHIPPLE CREEK TO FOREST BOUNDARY
GRADING, DRAINAGE, PAVING, & BRIDGE**

*DELETED BY
EXTRA WORK ORDER #2*

STATE	ROUTE DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-2(4) S-0920(4)	1967	1	57

INDEX OF SHEETS

Sheet No.	Description
1	Title Sheet
2	Typical Sections
3	Estimate of Quantities
4	Summary Tables & Peat Removal Detail
5	Summary Tables (Culverts & Monuments)
6	Materials Site Locations
7-14	Plan & Profile Sheets
15-16	General Details
17	Drainage Details
18-20	Approach Road Details
21	Tourist Turnout Details
22-35	Bridge No. 416
36	Typical Section (F-095-2(4))
37	Plan Sheet (F-095-2(4))
38	Sign Summary
39-40	Standard Sign Detail

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT: D-1, M-1, M-3, R-1, R-4, R-5, R-6, R-8, T-1, T-6, T-9, T-11, T-15, T-16 (2 sheets), & T-20

AS-BUILT PLANS

*CONTRACTOR: CENTRAL CONSTRUCTION CO.
PROJECT ENGINEER: STEVE N. HIROTSU
ACTUAL BEGINNING DATE: MARCH 25, 1968
ACTUAL COMPLETION DATE: AUGUST 13, 1969*

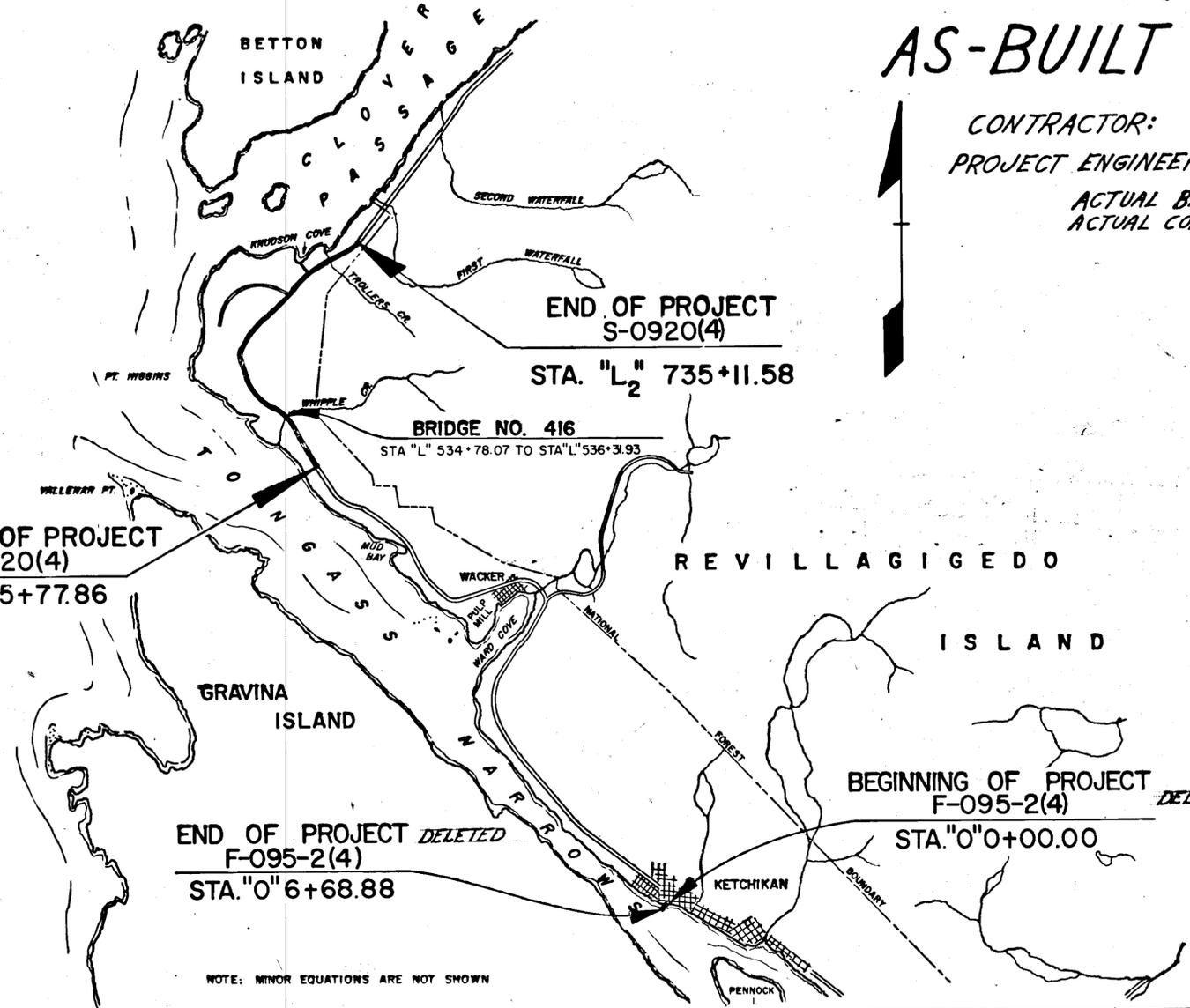
DESIGN DESIGNATION PROJECT NO. S-0920(4)

B.O.P STA. "L" 525+77.86 KNUDSON COVE TO
TO KNUDSON COVE FOREST BOUNDARY
ADT. (1967) = 375 ADT. (1987) = 180
ADT. (1987) = 1170 ADT. (1987) = 550
DHV. 15% = 176 DHV. 16% = 88
D = 40-60 D = 35-65
T = 5% T = 5%
V = 50 MPH V = 50 MPH

PROJECT NO. S-0920(4) SUMMARY

WIDTH OF SUBGRADE	20,578.82' = 3.14 MI. and 34'
LENGTH OF GRADING	20,586.61' = 3.899 MI.
LENGTH OF BRIDGE	20,153.86' = 0.029 MI.
LENGTH OF PROJECT	20,740.47' = 3.928 MI.

CLARENCE STRAIT

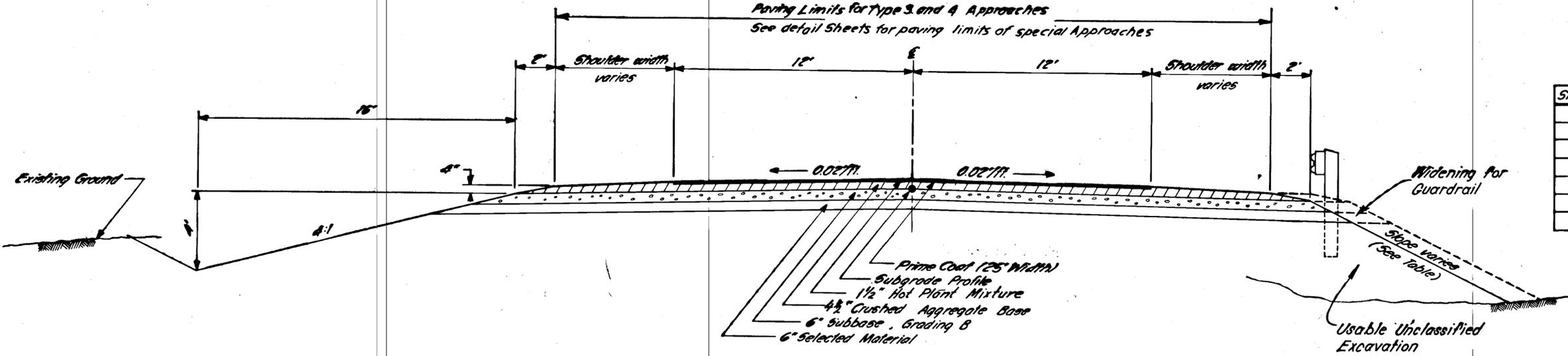


NOTE: MINOR EQUATIONS ARE NOT SHOWN

CONVENTIONAL SIGNS

PROPOSED CONSTRUCTION CENTERLINE	---
PAVED LINE	=====
RIGHT OF CUT	-----
RIGHT OF FILL	-----
PROPERTY LINE	-----
RIGHT-OF-WAY LINE	-----
SEWAGE LINE	-----
UNINCORPORATED OR CITY LIMITS	-----
EXISTING USE POLE	○
PROPOSED USE POLE	○
ANCHOR	○
POLE	○
ADWAY SIGNS EXISTING	○
ADWAY SIGNS PROPOSED	○
VE BOX	○
TRASH BASIN	○
SEWER INLET EXISTING	○
SEWER INLET PROPOSED	○
VERT. EXISTING	○
VERT. PROPOSED	○
DE POSTS EXISTING	○
DE POSTS PROPOSED	○
VELED WAY	○
ITERATION OF ROADWAY	○
CE	○
ND MONUMENT EXISTING WOOD POST	○
ND MONUMENT EXISTING BRASS CAP	○
HT-OF-WAY MONUMENTS EXISTING	○
VEY MONUMENT PROPOSED	○
RRAIL EXISTING	○
RRAIL PROPOSED	○
RRAP	○

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS
APPROVED
Richard D. Hill Date: Aug 29, 1969
COMMISSIONER OF HIGHWAYS



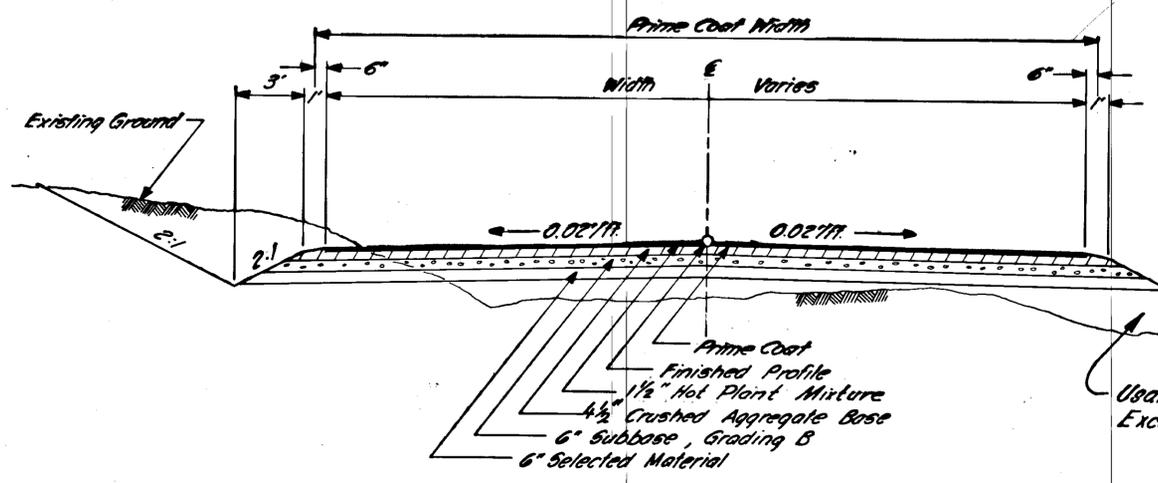
SHOULDER WIDTHS

Shoulder Width	Station
6'	527+77.86
Transition	671+82.50
3'	672+77.80
	733+11.58

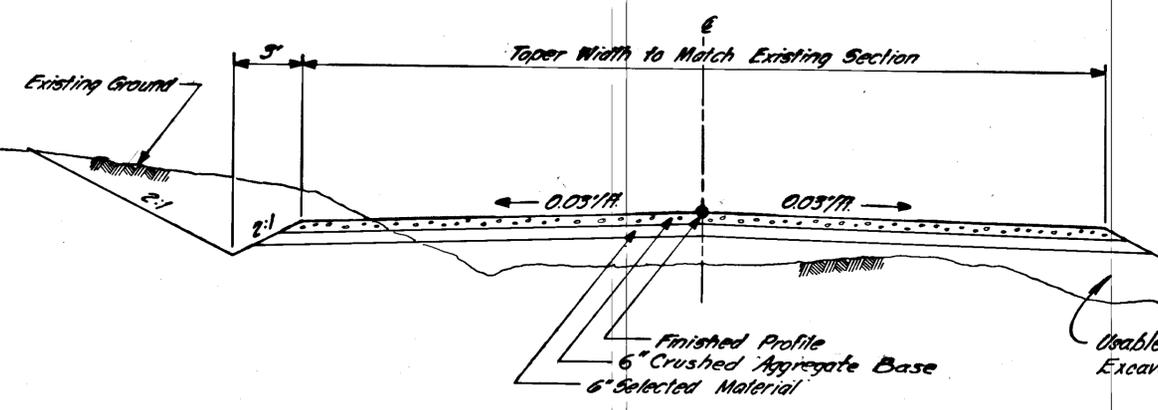
TYPICAL SECTION OF IMPROVEMENT
 'L' 527+77.86 to Sta. 'L' 733+11.58

TABLE OF ESTIMATING QUANTITIES

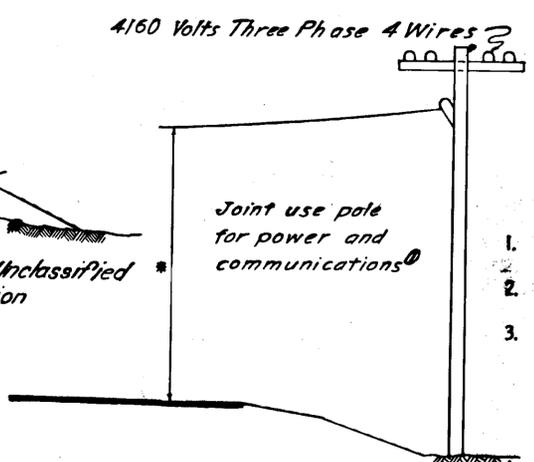
Item No.	Description	Factors
304(1)	Crushed aggregate Base (D-1)	1.96 Ton/c.y.
307(1)	Subbase, grading B	1.86 Ton/c.y.
403(2)	200/300 Pen. Asphalt Cement	0.054 of 403(4)
403(3)	RC-800 Liquid Asphalt	0.06 of 403(4)
403(4)	Hot Plant Mixture	112 lb/sq-yd-in.
408(2)	MC-30 Liquid Asphalt	0.25 gal/yd ² @ 777 lb/gal



TYPICAL SECTION OF ROAD APPROACHES



TYPICAL SECTION OF ROAD APPROACHES (BEYOND PAVING LIMITS)



* Minimum Clearance Over Highway
 Existing 16'
 Proposed 20'
 @ Communications
 Existing: B.O.P. to Sta. 672+60
 50 Pair 22 Gage
 Sta. 701+00 to E.O.P.
 25 Pair 22 Gage
 Proposed: B.O.P. to Sta. 567+50
 200 Pair 22 Gage
 Sta. 567+00 to 672+60
 100 Pair 22 Gage
 Sta. 701+00 to E.O.P.
 25 Pair 22 Gage

GENERAL NOTES

1. Culvert lengths and locations are approximate only and are subject to minor revisions.
2. Grades and alignment shown on these plans are subject to minor revisions.
3. Miscellaneous and minor R.O.W. encroachments, within the construction limits at the time of construction, such as fences, signs, abandoned foundations, etc. shall be removed by the contractor as directed by the engineer. No payment for this work shall be made as it is not a pay item in this contract. Such work will be considered incidental to other items of work performed under this contract.
4. All waste and/or surplus material encountered on this project will be disposed of by the contractor at locations of his own choice and as approved by the engineer.
5. The clearing limits shall be a neat, orderly line approximately five (5) feet beyond the slope limits in fill sections and ten (10) feet beyond the slope limits in cut sections, or to the R.O.W. line, whichever is the lesser of the two.
6. Debris from previous clearing operations lying within the R.O.W. will be removed as designated by the engineer. Payment will be made under Item No. 201(3) Clearing & Grubbing.
7. Reconnection of existing water lines, including additional pipe, and concrete plugs for 8" pipe conduits, will be considered incidental to Item No. 603(26A). No payment for this work shall be made as it is not a pay item in this contract.
8. At the option of the contractor corrugated aluminum pipe, or corrugated galvanized metal pipe may be furnished for pay item 603(26), pipe conduit.
9. All utilities and buildings shown on the plans within the R.O.W. limits to be moved or removed by others.

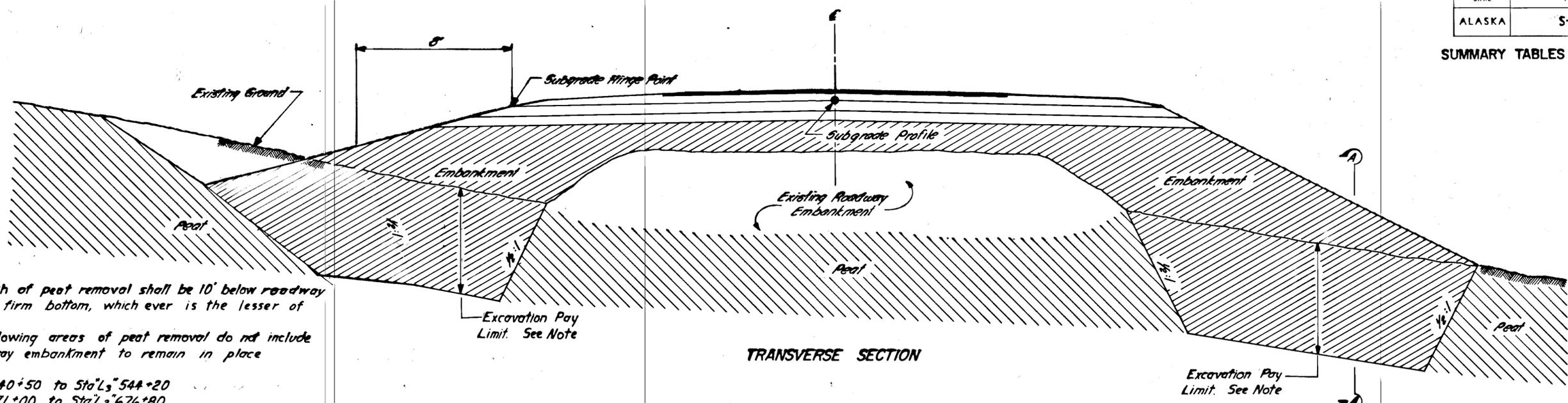
ESTIMATE OF QUANTITIES

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	F-095-2(4) S-0920(4)	1967	3	57

ITEM NO.	ITEM	UNIT	SHEET NUMBER											Proj. Total F-095-2(4)	Proj. Total S-0920(4)	*Y021	GRAND TOTAL	
			7	8	9	10	11	12	13	14	22-35	37						
	Furnishing and Maintaining Engineering Facilities	Lump Sum														All Req'd	All Req'd	
001(3)	Clearing & Grubbing	Acre	4.07	3.05	3.22	2.21	2.48	4.58	6.10	2.40						28.11	28.11	
001(7)	Selective Tree Removal	Each														62	62	
002(4)	Removal & Disposal of Culvert Pipe	Lin. Ft.	123	569	332	250	166	216	124	392						2,172	2,172	
003(3)	Unclassified Excavation	Cu. Yd.	82,031		101,236			58,608	10,955							252,830	252,830	
003(14)	Selected Material	Cu. Yd.	5,411		8,309			3,203	1,428							18,351	153	18,351
006(1)	Structure Excavation	Cu. Yd.	328	674	422	214	168	1,091	253	300						3,450	3,450	
007(1)	Class I Excavation For Structures	Cu. Yd.										630				630	630	
007(4)	Filter Material	Cu. Yd.										20				20	20	
004(1)	Crushed Aggregate Base Course, Grading D-1	Ton	2,736	3,628	3,496	2,215	2,219	3,508	3,025	2,574			56		56	23,401	247	23,457
006(1)	Reconditioning	Lump Sum											All Req'd	All Req'd			All Req'd	
007(1)	Subbase, Grading B	Ton	3,284	4,297	4,388	2,854	2,859	4,167	3,690	3,071						28,610	352	28,610
010(2)	Stockpiled Material, Sec. 304(1), Grading D-1	Ton														1,000	1,000	
003(4)	Plant Mixture	Ton	534	706	657	450	454	692	685	581			463	463	4,759	9.2	5,222	
008(2)	MC-30 Liquid Asphalt for Prime Coat	Ton	6	8	8	5	5	8	8	7			4	4	55	1.2	59	
001(1)	Class A Concrete	Lump Sum											All Req'd	All Req'd			All Req'd	
002(1)	Reinforcing Steel	Lump Sum											All Req'd	All Req'd			All Req'd	
003(26A)	8" Pipe Conduit	Lin. Ft.			96		100		80						276		276	
003(26E)	18" Pipe Conduit	Lin. Ft.	160	202	122		60	128	154	222					1,048		1,048	
003(26G)	24" Pipe Conduit	Lin. Ft.	150	704	520	220	244	234	352	360					2,784		2,784	
003(26H)	30" Pipe Conduit	Lin. Ft.	114	120		104		108	110						556		556	
003(26K)	48" Pipe Conduit	Lin. Ft.								70					70		70	
003(26L)	54" Pipe Conduit	Lin. Ft.							164						164		164	
006(1)	Beam Type Guardrail, Type I Post	Lin. Ft.	262.5		287.5	200									750	187.5	750	
009(3)	Curb and Gutter, Type 2	Lin. Ft.											348	348			348	
010(1)	Structural Plate Pipe 96" Diameter 10 Ga.	Lin. Ft.						130							130		130	
011(1)	Riprap, Class I	Cu. Yd.						48	23	7					78		78	
013(2)	Culvert Marker Posts	Each	6	20	12	8	6	8	14	10					84		84	
013(3)	Guide Posts	Each	2		14										16	14	16	
014(1)	Survey Monuments	Each	5	6	4	3	2	5	3	4	1				33		33	
014(2)	Monument Cases	Each	5	6	4	3	2	5	3	4					32		32	
015(1)	Standard Signs	Each	20	4	3	1	2	6	3	1			1		40	2	41	
015(2)	Remove & Relocate Existing Signs	Each	2	2	3	2		1		1					11		11	
033(1)	Structural Steel, Furnished, Fabricated & Erected	Lump Sum											All Req'd	All Req'd			All Req'd	
034(1)	Steel Beam Bridge Railing	Lin. Ft.											413		413		413	
035(2)	Treated Timber, Pentachlorophenol preservative	M. B. M.			0.6		0.2		0.4	0.4					1.6		1.6	
ALTERNATE "A"																		
003(2)	200/300 Penetration Asphalt Cement	Ton	28.8	38.1	35.5	24.3	24.5	37.4	36.9	31.4			25.2	25.2	256.9	0.5	282.1	
ALTERNATE "B"																		
003(3)	Liquid Asphalt R C 800	Ton	32	42	39	27	27	42	41	35			28	28	285	0.6	313	

*Y021 Quantities are Included in Project Total Quantities.

SUMMARY TABLES & PEAT REMOVAL DETAIL



Notes:
 1. The depth of peat removal shall be 10' below roadway grade or to firm bottom, whichever is the lesser of the two.
 2. The following areas of peat removal do not include existing roadway embankment to remain in place

Sta. L₁ 540+50 to Sta. L₁ 544+20
 Sta. L₂ 671+00 to Sta. L₂ 676+80
 Sta. L₂ 680+00 to Sta. L₂ 686+20

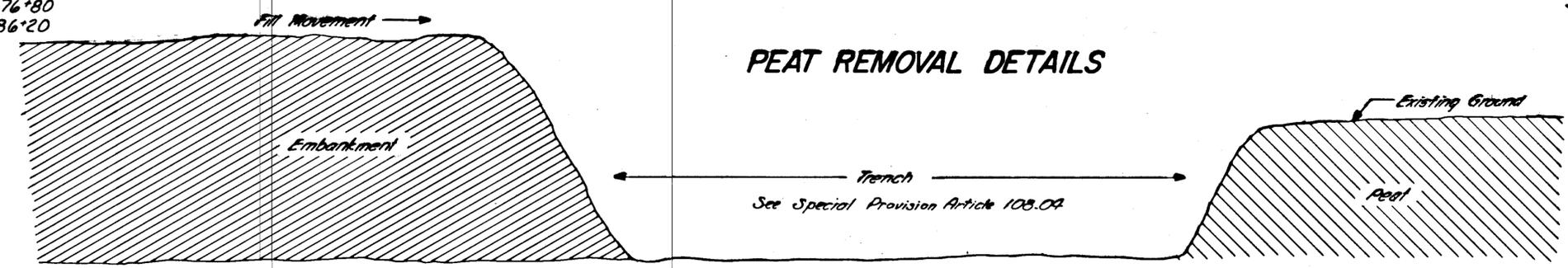


TABLE OF FILL SLOPES

Station	Height of Fill		
	0-5'	5-10'	Over 10'
L ¹ 527+77.06	4:1	2:1	1 1/2:1
L ² 733+11.58			

LONGITUDINAL SECTION A-A
 GUARDRAIL TABLE

Station	Length Lin. Ft.	Station	Length Lin. Ft.	Station	Length Lin. Ft.
L ¹ 533+40.6 Lt.	87.5	L ² 536+82.9 Rt.	75.1	L ² 608+50 Lt.	100.0
L ¹ 534+27 Lt.	43.9	L ² 537+56.9 Rt.	37.5	L ² 609+47.7 Lt.	300.0
L ¹ 534+27.7 Rt.	50.0	D ¹ 9+41 Lt.	37.1	L ² 610+54.5 Lt.	200.0
L ¹ 534+76.7 Rt.		L ² 588+00 Lt.		L ² 612+15 Lt.	200.0
L ¹ 536+333 Lt.	43.9	L ² 604+70 Lt.		G ¹ 9+40 ±	
L ¹ 536+82.3 Lt.	50.0	L ² 604+83 Lt.	187.4	G ¹ 9+58.1 Lt.	62.2
		L ² 606+40 Lt.	187.5	L ² 701+90 Lt.	300.0
		L ² 606+45.9 Lt.		L ² 701+92.1 Lt.	
Total Length of Guardrail 837.5 Lin. Ft. 837.1 Ft.					

ITEM 201(B)
 REMOVE & RELOCATE MAIL BOXES

STATION	No. Of Boxes
528+15	1
547+00	22
548+50	2
552+75	2
553+00	1
557+00	1
558+00	12
577+30	2
586+00	2
595+85	2
598+80	1
631+00	1
660+00	3
666+75	1
672+00	11
704+50	3
706+75	2
708+70	1
709+00	1
712+50	1
716+00	1
719+50	1
725+50	1
729+50	2

TABLE OF CUT SLOPES

Station	Height of Cut		
	0-5'	5-10'	Over 10'
L ¹ 527+77.06	2:1	2:1	1 1/2:1
L ¹ 535+50	1 1/2:1	1:1	3/4:1
L ¹ 541+00	2:1	2:1	1 1/2:1
L ¹ 551+00	1 1/2:1	3/4:1	3/4:1
L ¹ 557+00	1 1/2:1	1:1	3/4:1
L ¹ 631+00	2:1	2:1	1 1/2:1
L ¹ 639+50	1 1/2:1	3/4:1	3/4:1
L ¹ 656+00	2:1	2:1	1 1/2:1
L ¹ 667+00	1 1/2:1	1:1	3/4:1
L ¹ 680+00	2:1	2:1	1 1/2:1
L ¹ 686+50	1 1/2:1	1:1	3/4:1
L ¹ 688+70	2:1	2:1	1 1/2:1
L ¹ 719+50	1 1/2:1	1:1	3/4:1
L ¹ 733+11.58			

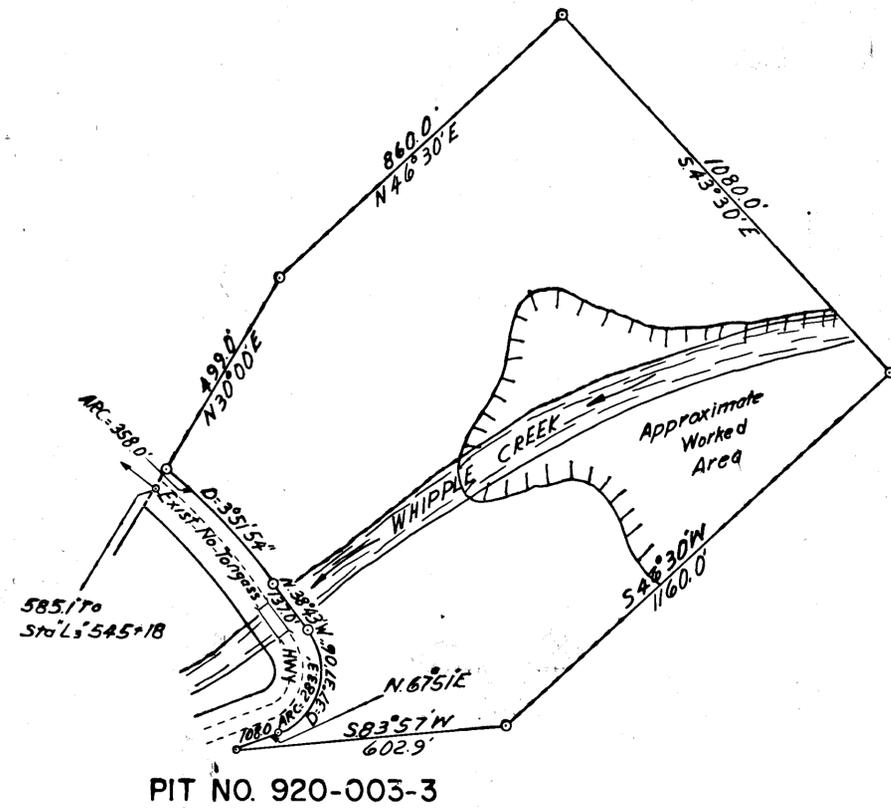
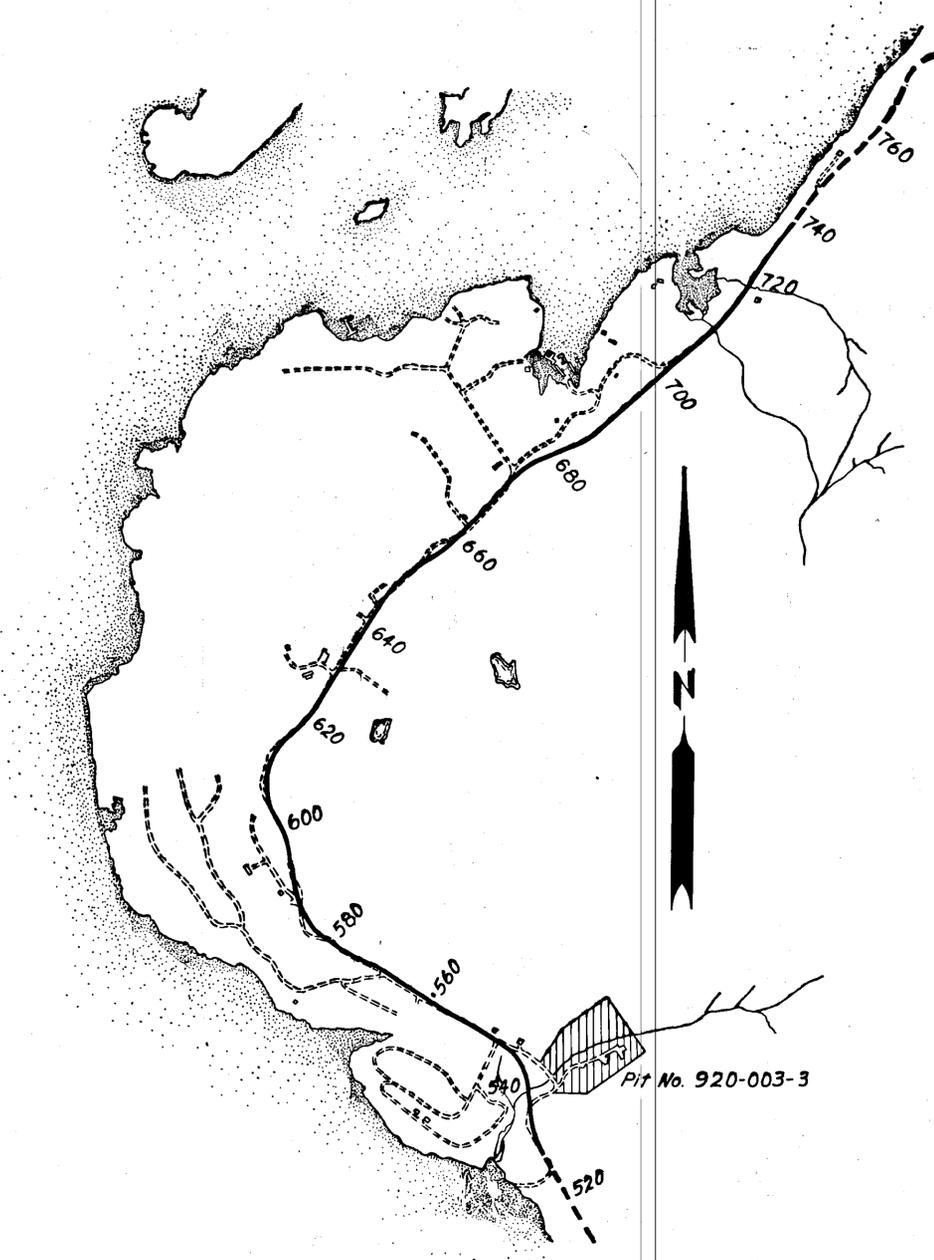
SUMMARY OF STANDARD APPROACHES

Station	Type	603120 18" Pipe Conduit L.F.	Station	Type	603120 18" Pipe Conduit L.F.
L ¹ 527+52 Rt.	3		L ¹ 629+56 Lt.	3	
L ¹ 545+52 Rt.	3	323	L ¹ 638+69 Rt.	3	0.36
L ¹ 546+77 Rt.	3	38	L ¹ 642+50 Rt.	3	24
L ¹ 547+92 Rt.	3	262	L ¹ 658+87 Lt.	3	
L ¹ 548+73 Lt.	3		L ¹ 660+90 Rt.	3	34
L ¹ 549+13 Rt.	3	262	L ¹ 661+49 Lt.	3	30
L ¹ 551+82 Lt.	3	24	L ¹ 667+11 Rt.	3	
L ¹ 552+33 Rt.	3	32.1	L ¹ 670+28 Rt.	3	24
L ¹ 553+15 Rt.	3		L ¹ 704+74 Rt.	3	28
L ¹ 555+25 Lt.	3	32.2	L ¹ 704+85 Lt.	3	0.44
L ¹ 557+55 Rt.	3	32.1	L ¹ 706+38 Rt.	3	36
L ¹ 558+78 Rt.	4	20	L ¹ 707+00 Rt.	4	0.20
D ¹ 559+75 Rt.	3		L ¹ 708+62 Lt.	3	
D ¹ 561+50 Lt.	3	0.28	L ¹ 710+38 Rt.	3	
D ¹ 569+68 Rt.	3	34.9	L ¹ 712+41 Rt.	3	30.4
D ¹ 573+48 Lt.	3	30.2	L ¹ 714+42 Lt.	3	
D ¹ 577+45 Rt.	3		L ¹ 716+23 Rt.	3	28.1
D ¹ 579+25 Rt.	3		L ¹ 716+23 Lt.	3	36.3
D ¹ 580+00 Lt.	3	32	L ¹ 720+08 Lt.	3	
L ¹ 597+81 Lt.	3	30.4	L ¹ 720+22 Rt.	3	32.3
L ¹ 598+89 Lt.	3	28.2	L ¹ 724+45 Rt.	3	36
L ¹ 599+78 Rt.	3	32.1	L ¹ 725+71 Lt.	3	24.1
L ¹ 600+15 Lt.	3		L ¹ 728+25 Rt.	3	36.1
L ¹ 604+00 Lt.	3		L ¹ 729+23 Lt.	3	
			L ¹ 731+65 Lt.	3	

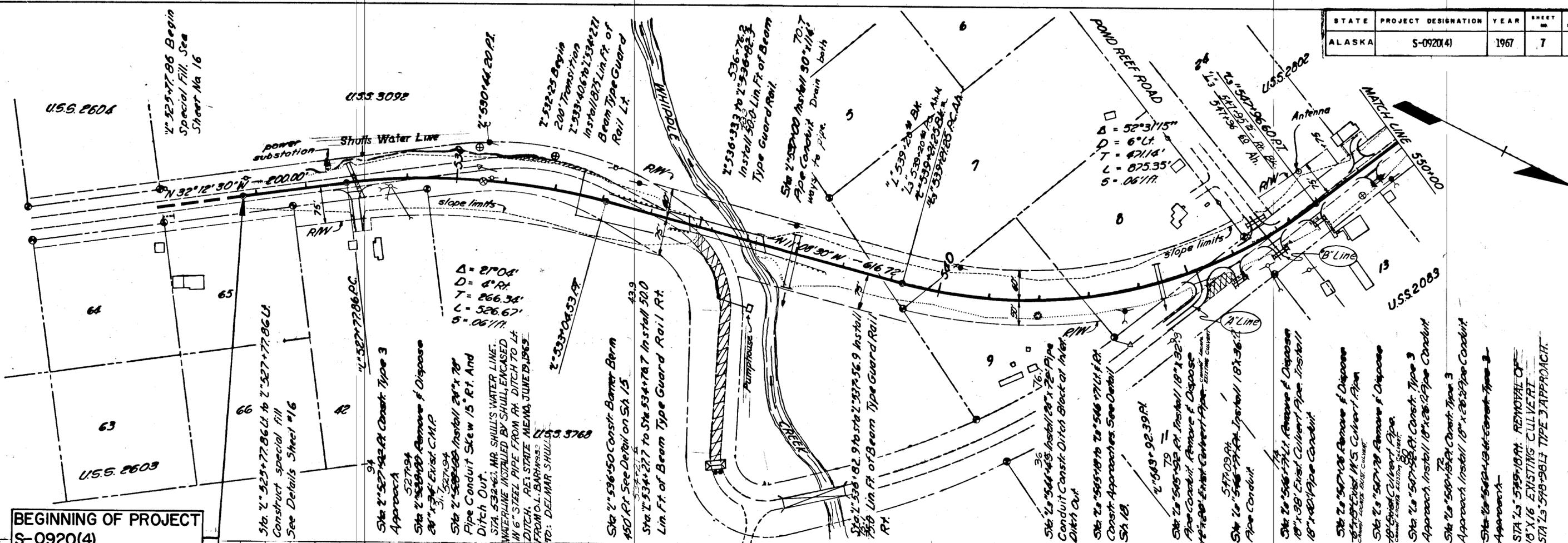
STATION	TYPE	18" CRP
D ¹ 543+20 Rt.	3	28
D ¹ 575+30 Lt.	3	0
D ¹ 576+60 Lt.	3	0
D ¹ 586+85 Lt.	3	0
L ¹ 628+10 Lt.	3	30.45
L ¹ 643+28 Lt.	3	30.5
L ¹ 675+74 Lt.	3	20.0
L ¹ 683+20 Rt.	3	26.1
L ¹ 685+65 Rt.	3	10.2
L ¹ 686+85 Lt.	3	
L ¹ 688+20 Lt.	3	22
L ¹ 699+93 Rt.	3	28.3

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0920(4)	1967	6	57

MATERIALS SITE LOCATION AVAILABLE SOURCE



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0920(4)	1967	7	57



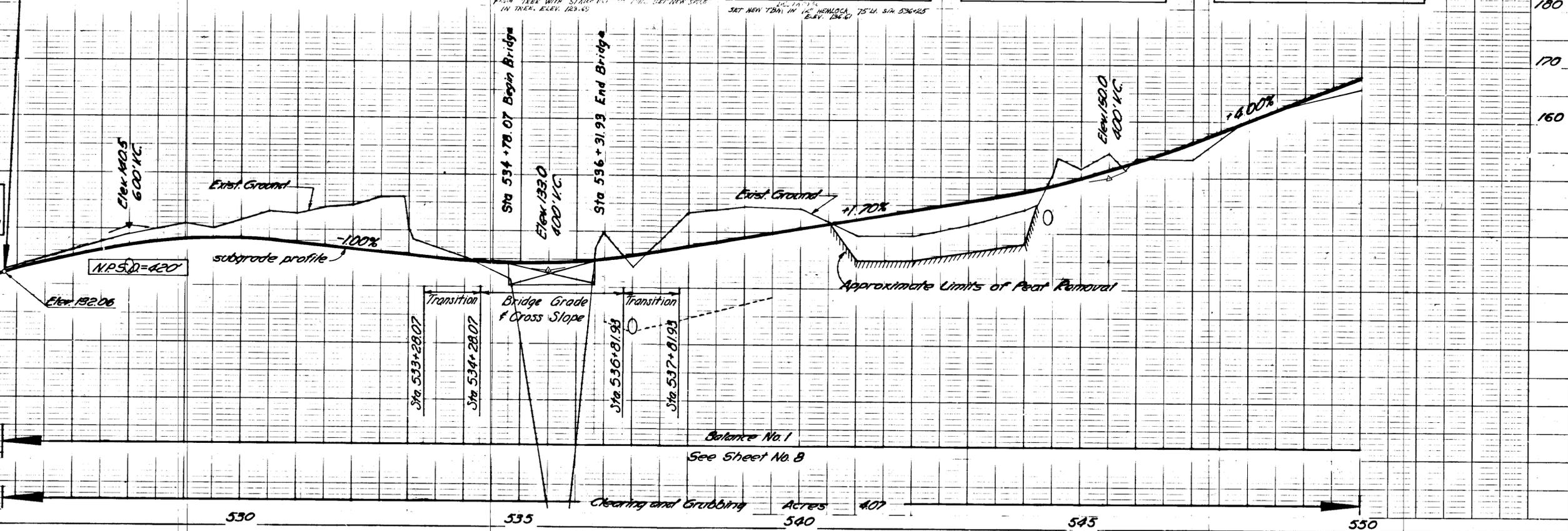
BEGINNING OF PROJECT
S-0920(4)
STA. "L" 525+77.86

- B.M. #26 Nail in Power Pole
30' Lt. "L" 528+30. Elev. 123.20
- B.M. #1 Brass Cap (B.P.P. STA 559+00.3)
60' Lt. "L" 531+90. Elev. 138.68
- B.M. #2 Nail in 36" Spruce
125' Rt. "L" 535+50. Elev. 123.98
- B.M. #3 Nail in 30" Hemlock
55' Lt. "L" 535+80. Elev. 126.44
- B.M. #4 Spike in 8" Pine
60' Lt. "L" 541+80. Elev. 147.02
- B.M. #5 B.P.P. Brass Cap 45' Rt.
"L" 548+75. Elev. 166.54

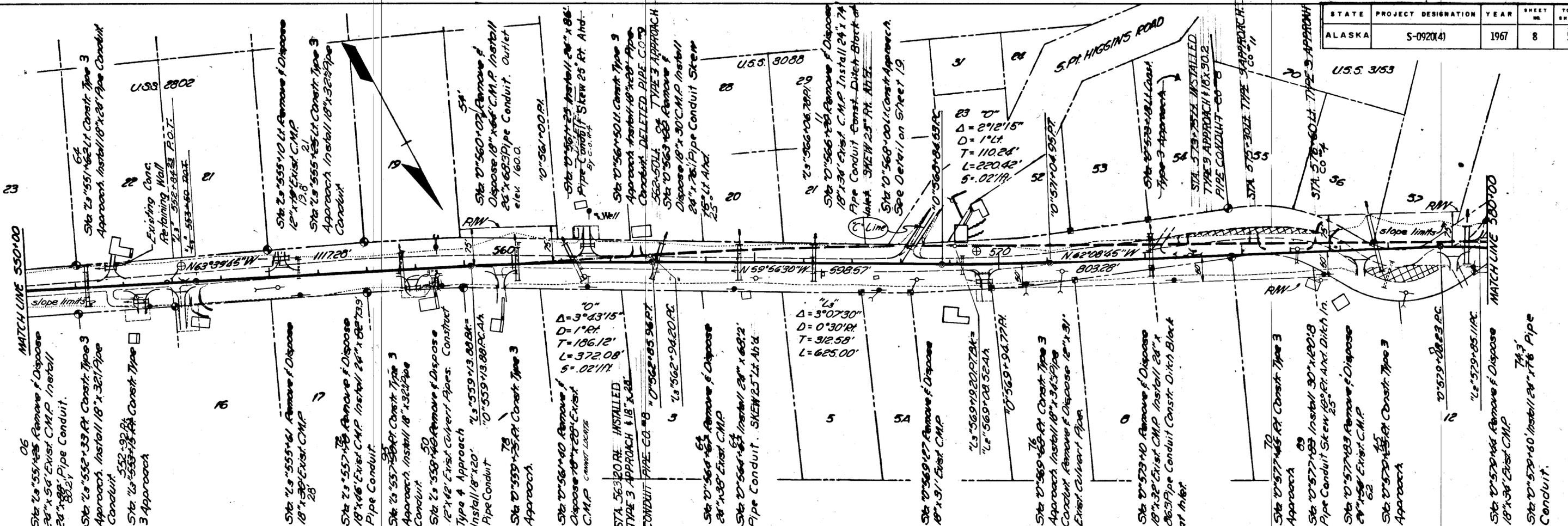
Horizontal Control: Based on Alaska State Plane Coordinate System, Zone No. 1. Mean θ angle for converting Grid Bearing to Geodetic (True) Bearing = $+1^{\circ}33'30''$

Vertical Control: B.P.P. Brass Cap 60' Lt. of Sta. "L" 531+90 Elev. 138.68.

Embankment = (Excavation - Waste - Excess Excavation) / (Grading Factor) + (Subbase) / (0.538 cu. yd./ft²)



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0920(4)	1967	8	57

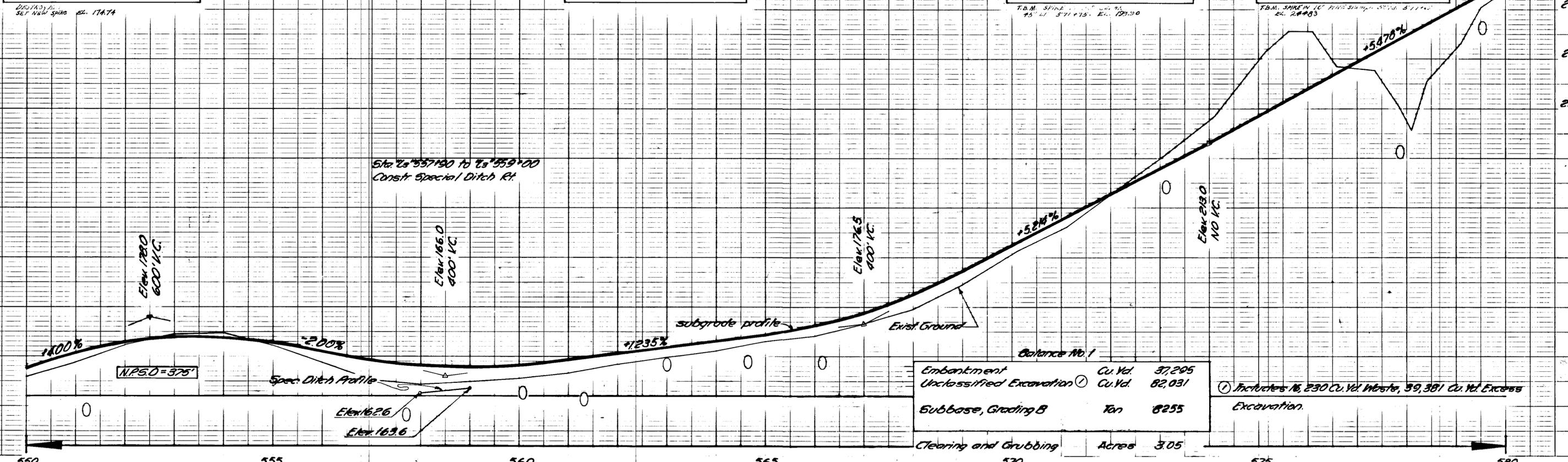


B.M. #6 Nail in 18" Cedar
45' Rt. "Ls" 552+00. Elev. 174.77

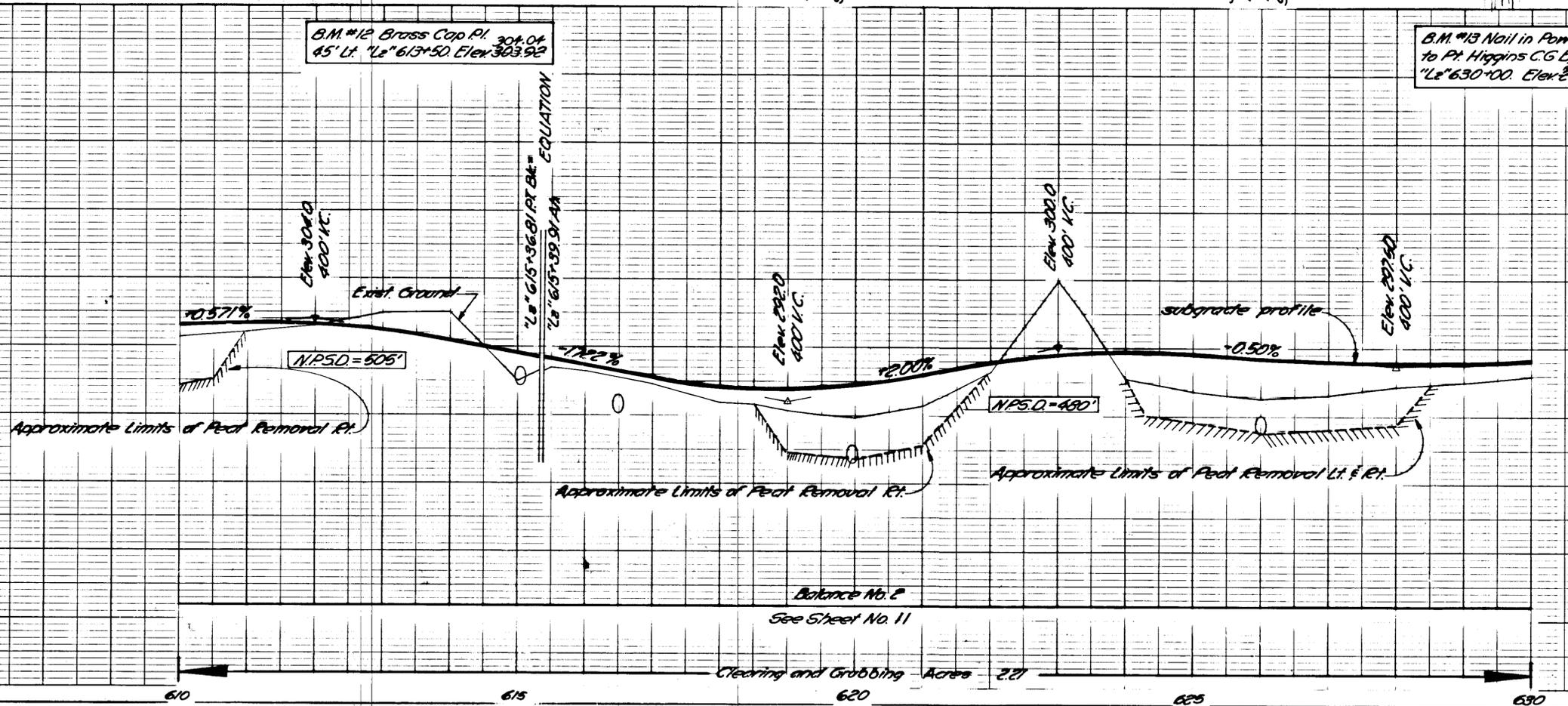
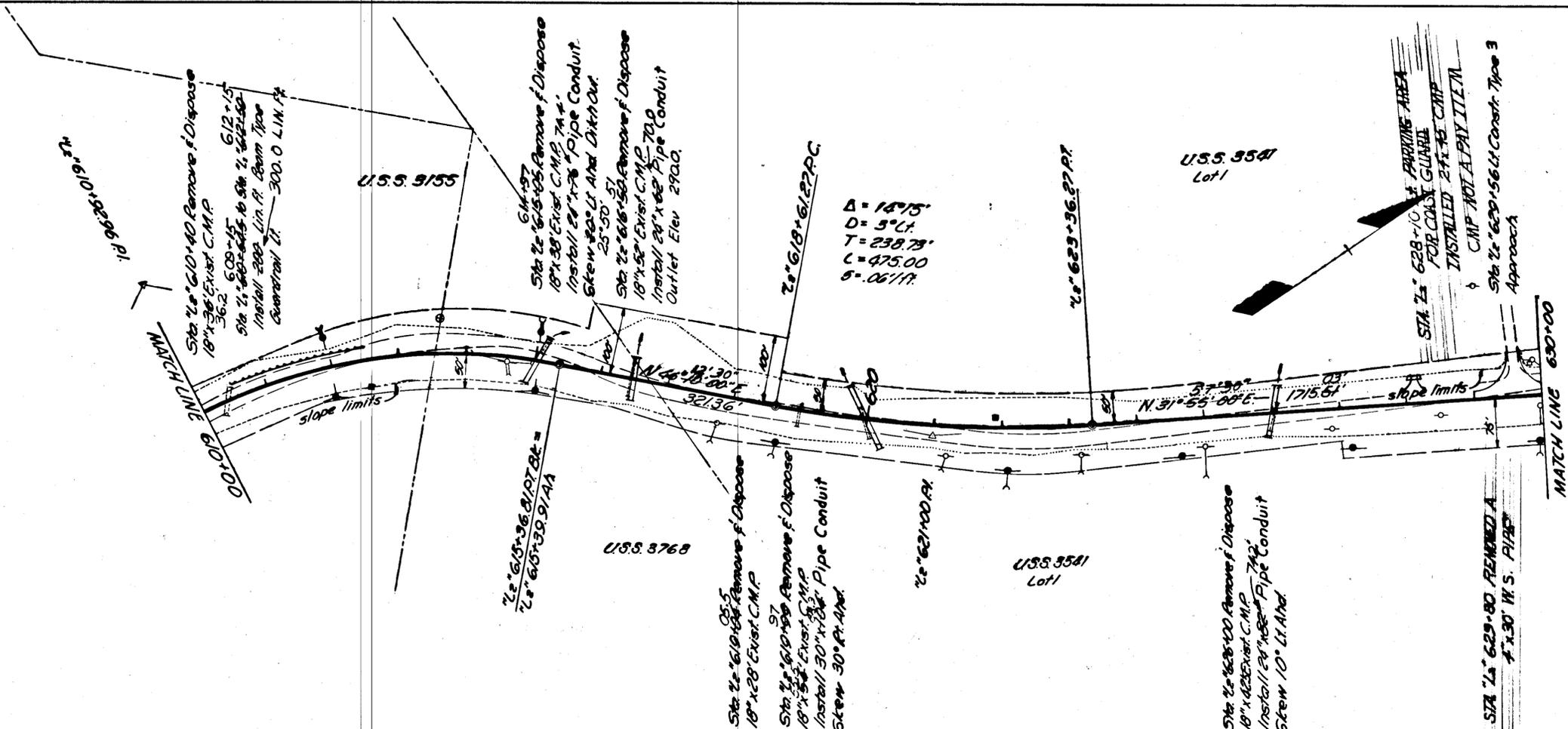
B.M. #7 Nail in 24" Hemlock
90' Lt. "O" 563+00. Elev. 168.29

B.M. #8 Nail in Power Pole
15' Rt. "O" 571+30 Elev. 204.64

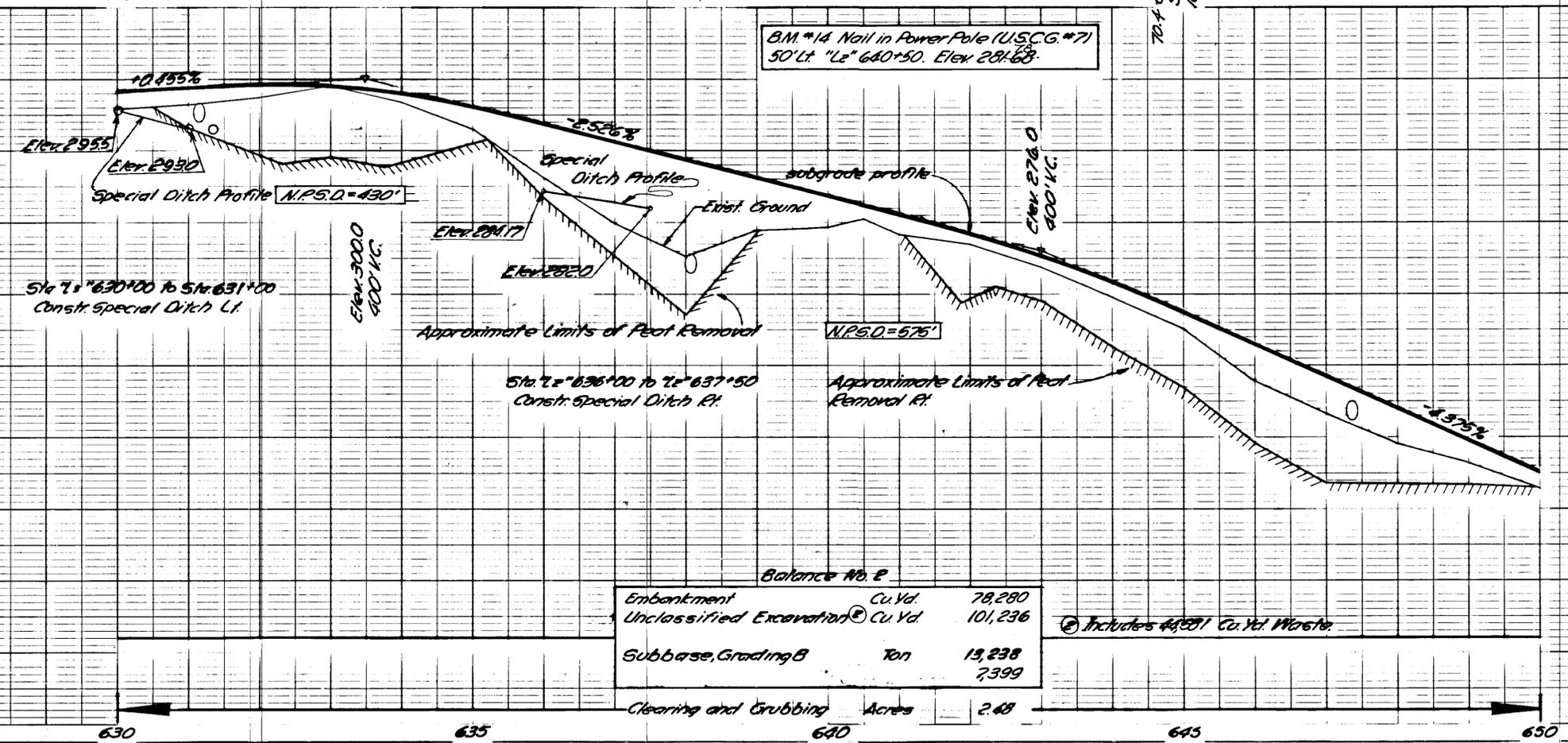
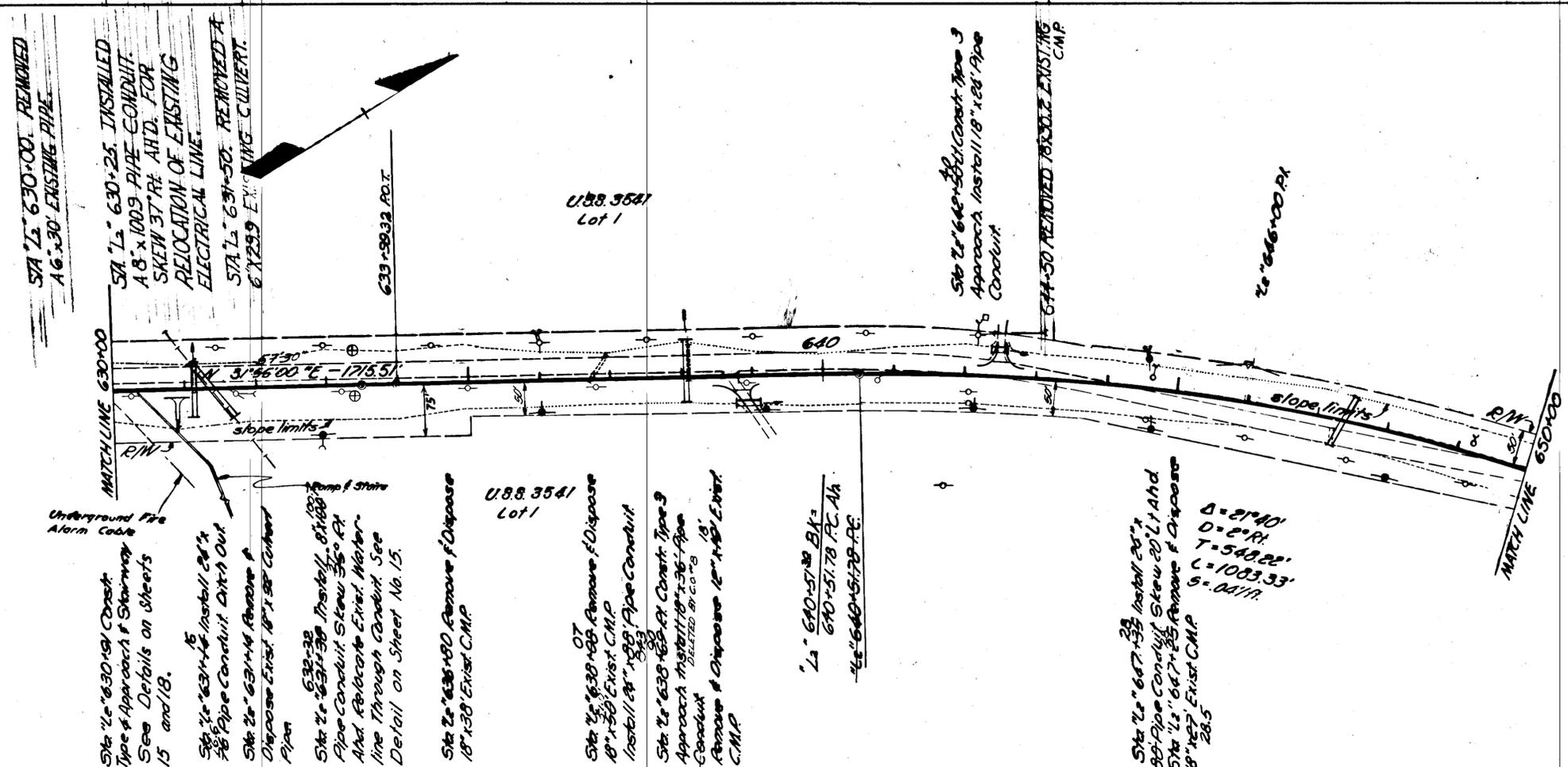
B.M. #9 Spike in 12" Pine
40' Rt. "O" 579+50. Elev. 205.78



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0920(4)	1967	10	57



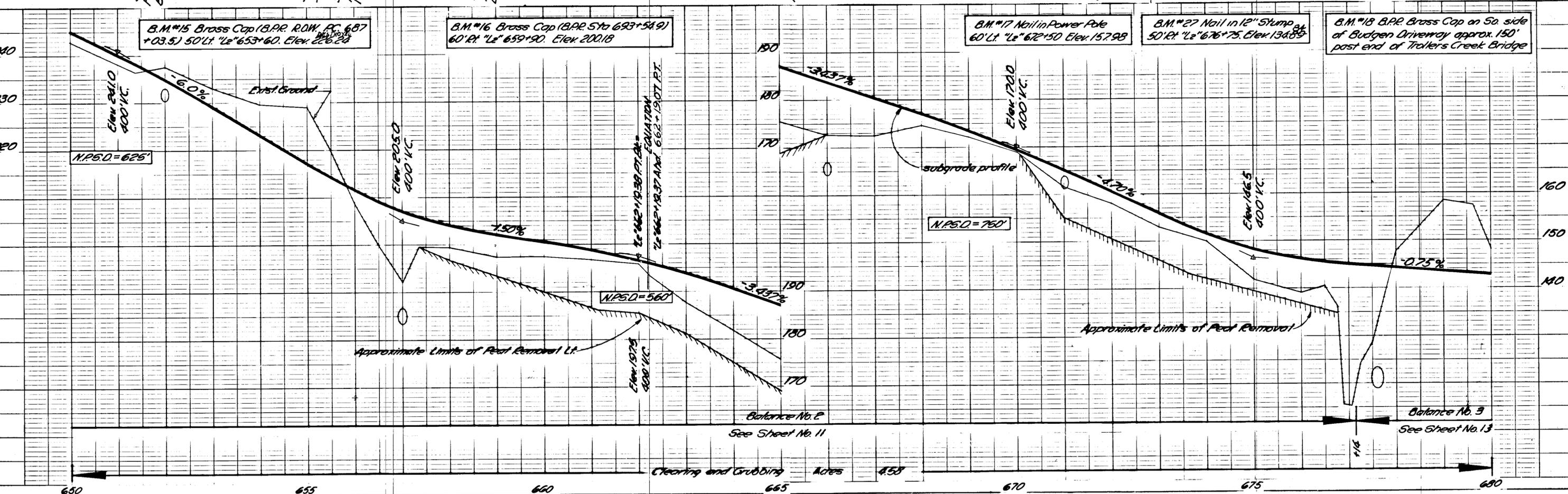
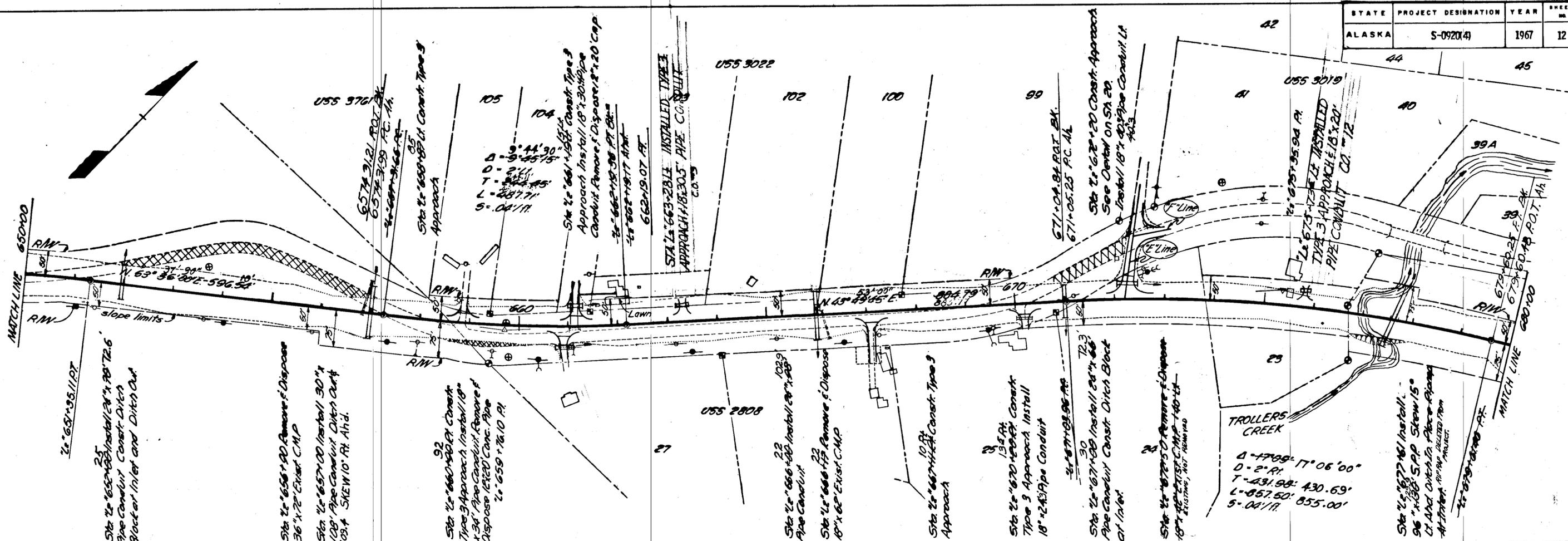
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0920(4)	1967	11	57

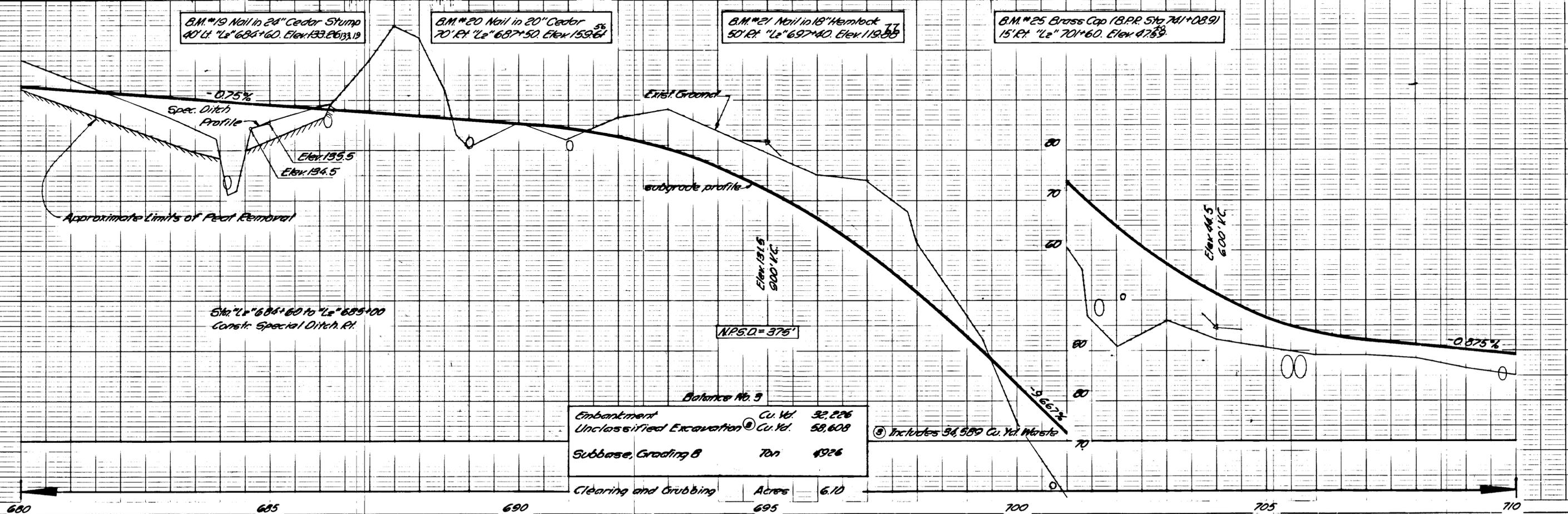
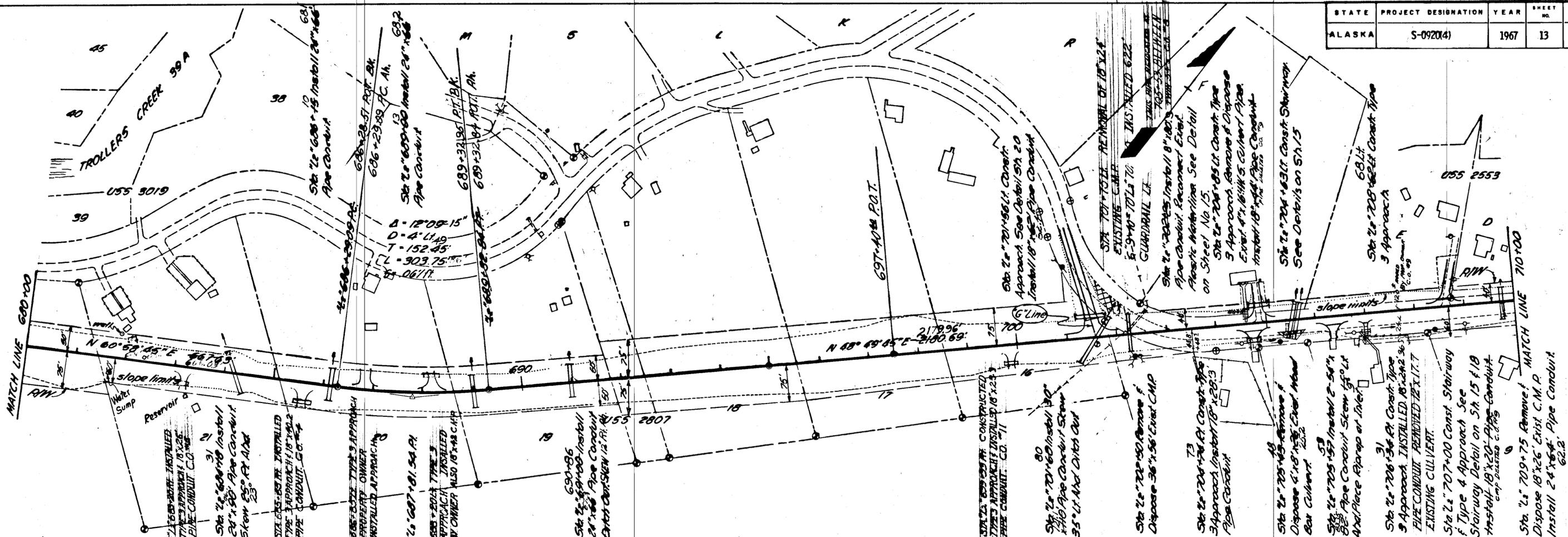


Balance No. 2

Embankment	Cu. Yd.	78,280
Unclassified Excavation	⊙ Cu. Yd.	101,236
Subbase, Grading B	Ton	19,238
		7,399
Clearing and Grubbing	Acres	2.48

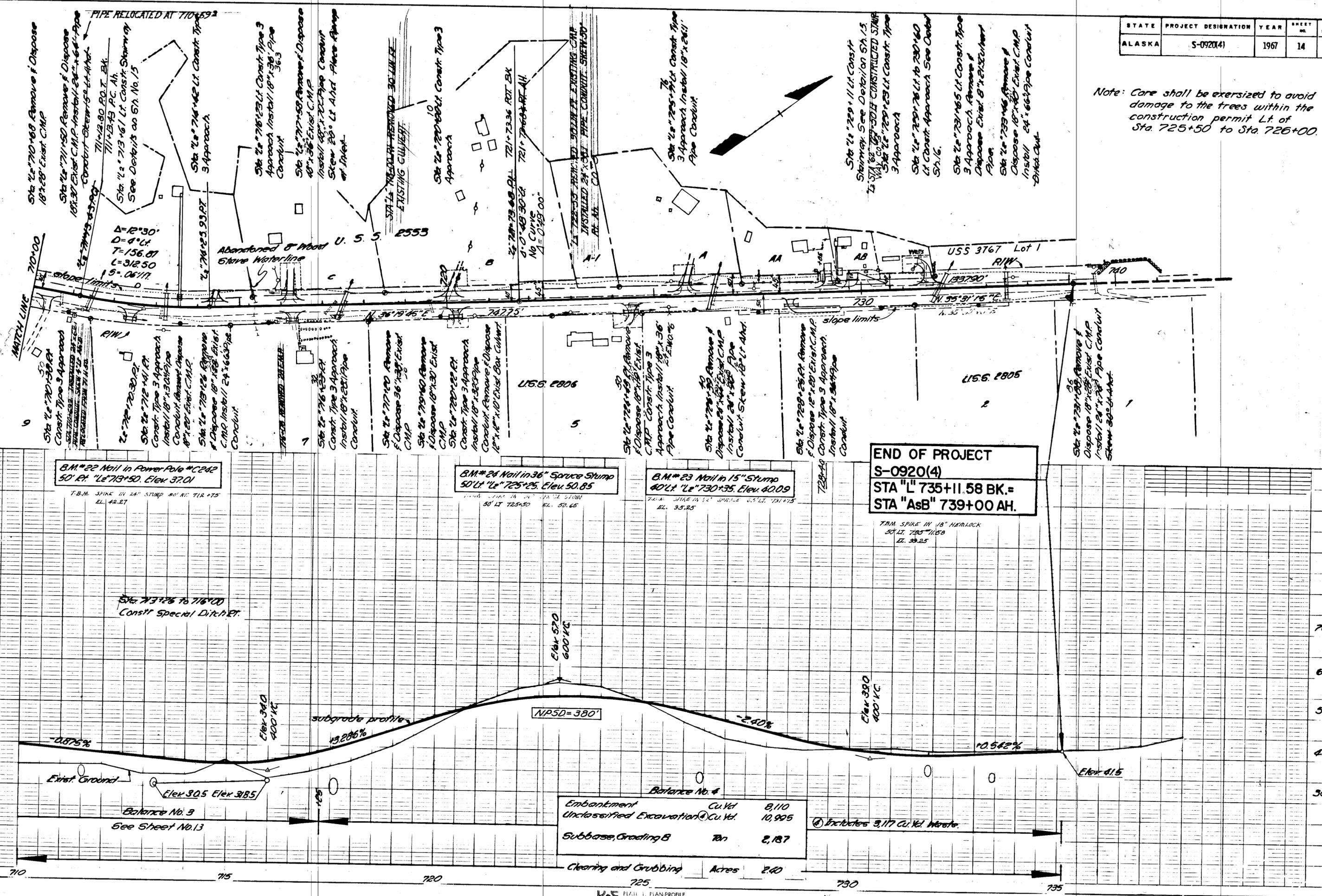
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0920(4)	1967	12	57





STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0920(4)	1967	14	57

Note: Care shall be exercised to avoid damage to the trees within the construction permit Lt. of Sta. 725+50 to Sta. 726+00.

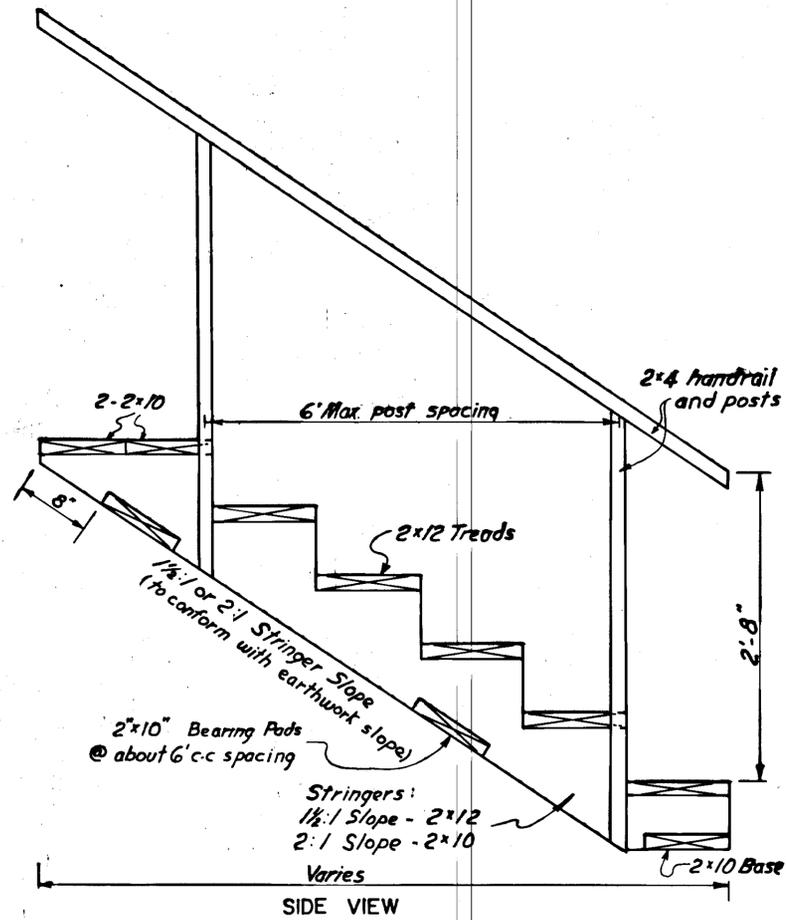


END OF PROJECT
S-0920(4)
STA "L" 735+11.58 BK.=
STA "AsB" 739+00 AH.

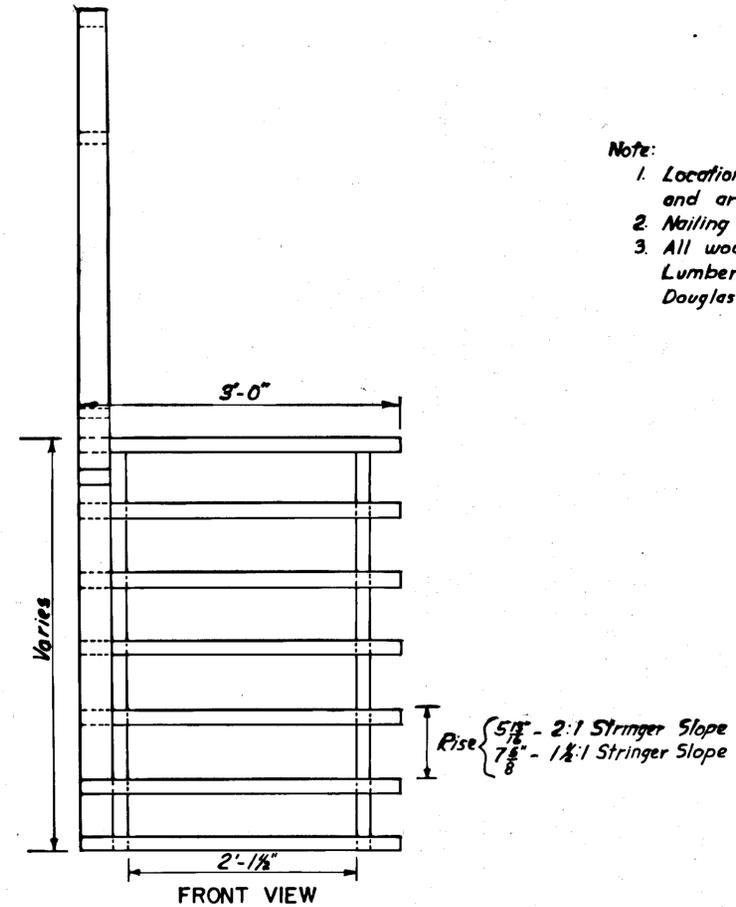
Balance No. 4

Embankment	Cu Yd	8,110
Unclassified Excavation	@ Cu Yd	10,995
Subbase, Grading B	Ton	2,187
Clearing and Grubbing	Acres	2.40

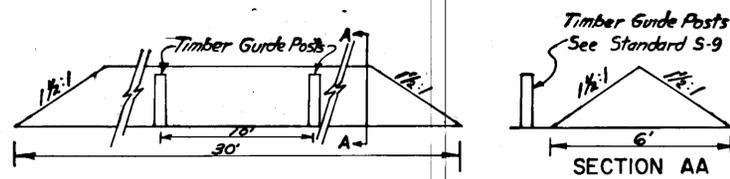
Includes 3,117 Cu Yd. Waste.



STAIRWAY DETAILS

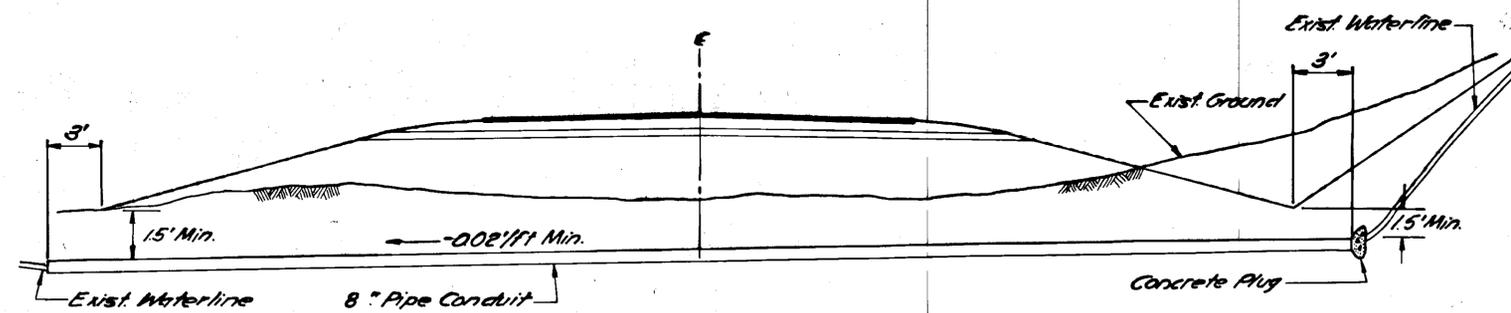


- Note:
1. Locations of stairways are approximate only and are subject to revision by the engineer.
 2. Nailing shall be as directed by the engineer.
 3. All wood shall be equivalent to West Coast Lumbermans' Association 'Construction' grade for Douglas Fir.



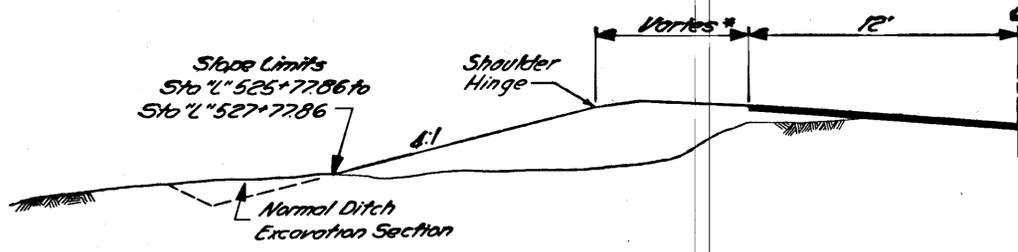
BARRIER BERM DETAIL
450' RT. STA "L" 536+50

Note: Barrier Berm shall be constructed of useable material from the existing road. No measurement will be made for this item and it will be considered a subsidiary obligation of the contractor for work performed under Section 203.

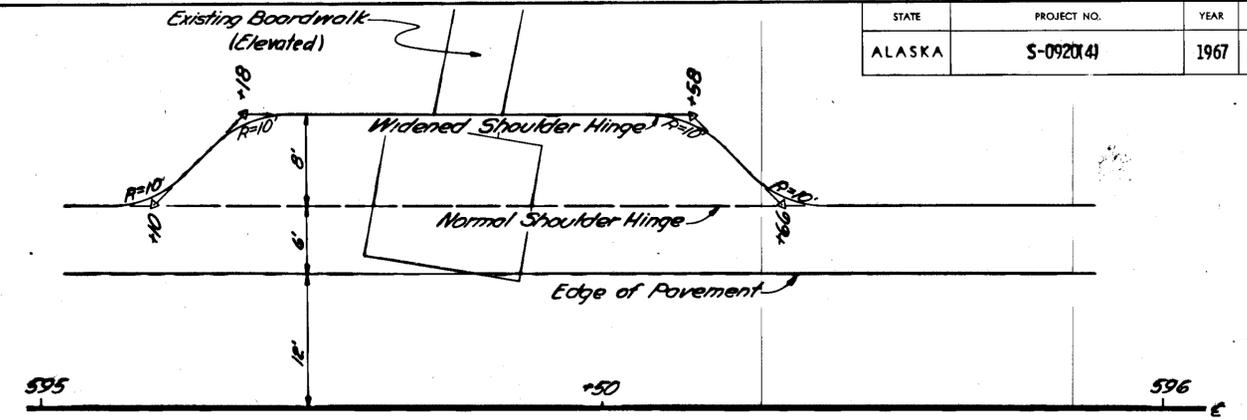


INSTALLATION DETAIL
8" PIPE CONDUIT

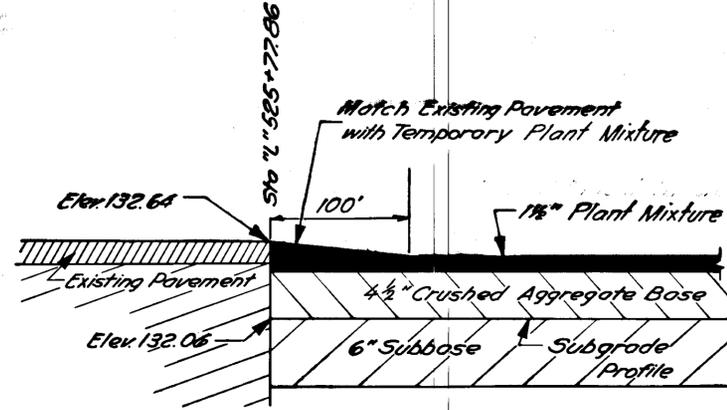
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0920(4)	1967	16	57



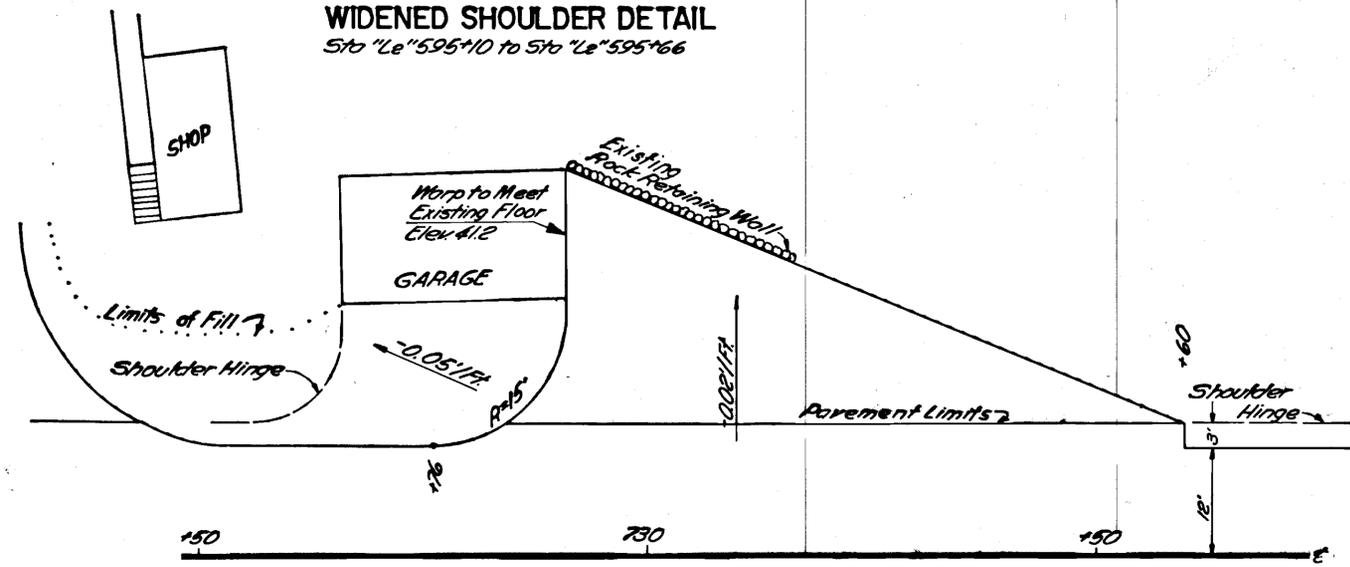
SPECIAL FILL SECTION DETAIL
Sta "L" 525+77.86 to Sta "L" 527+77.86 Lt.
* See B.O.P. Detail Below



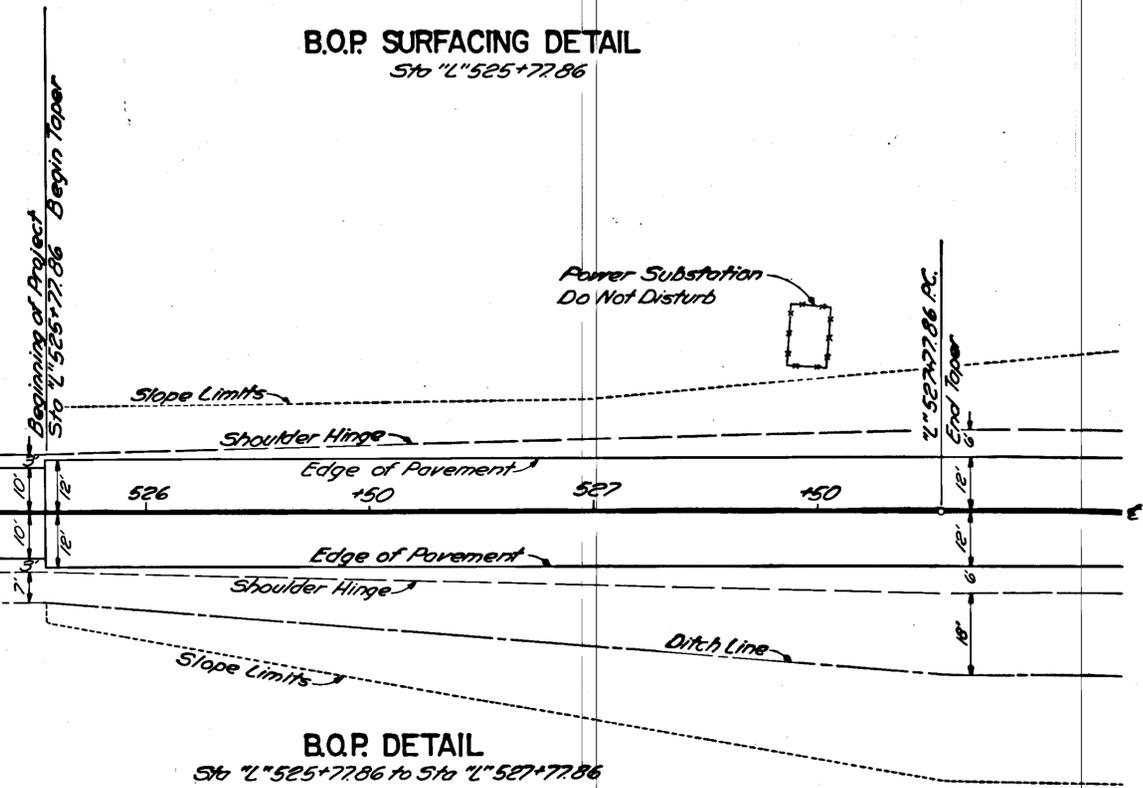
WIDENED SHOULDER DETAIL
Sta "Le" 595+10 to Sta "Le" 595+66



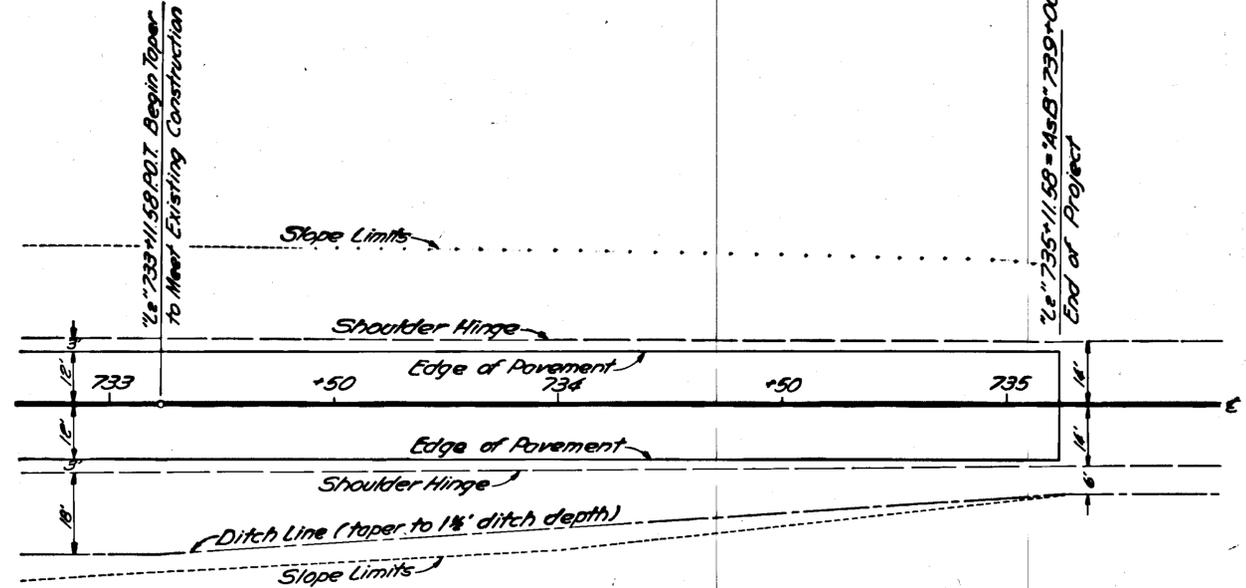
B.O.P SURFACING DETAIL
Sta "L" 525+77.86



SPECIAL APPROACH DETAIL
Sta "Le" 729+76 to Sta "Le" 730+60



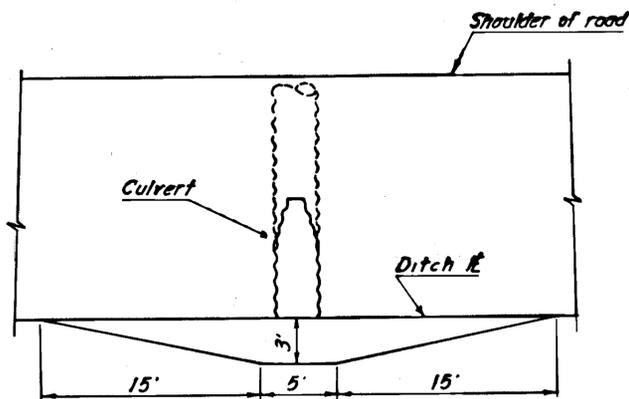
B.O.P DETAIL
Sta "L" 525+77.86 to Sta "L" 527+77.86



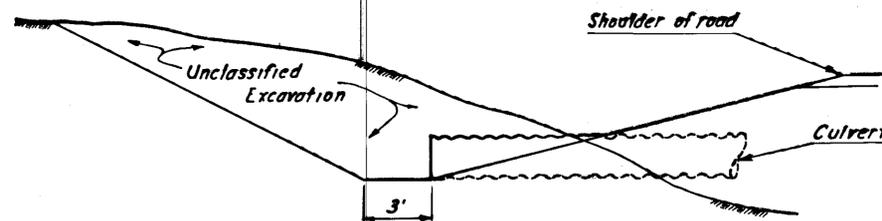
E.O.P DETAIL
Sta "Le" 733+11.58 to Sta "Le" 735+11.58

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0920(4)	1967	17	57

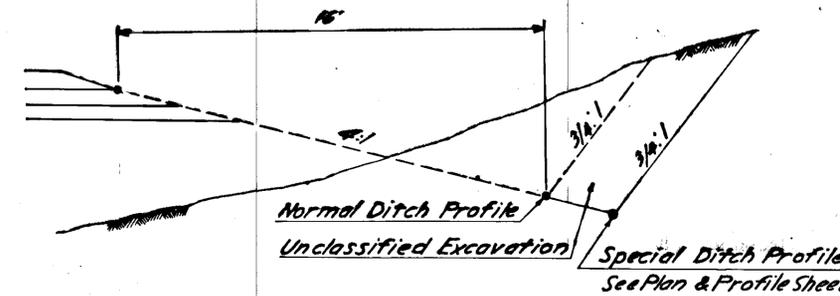
DRAINAGE DETAILS



PLAN VIEW



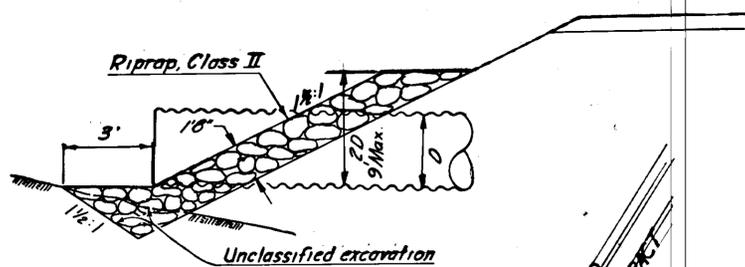
TYPICAL SECTION



TYPICAL SECTION

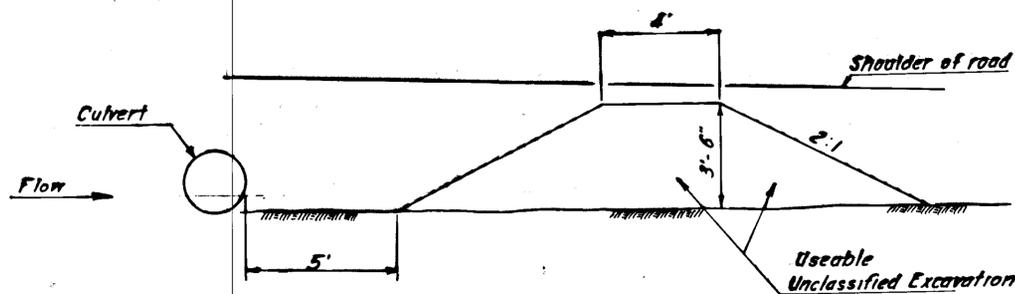
SPECIAL DITCH DETAIL

CULVERT INLET DETAIL

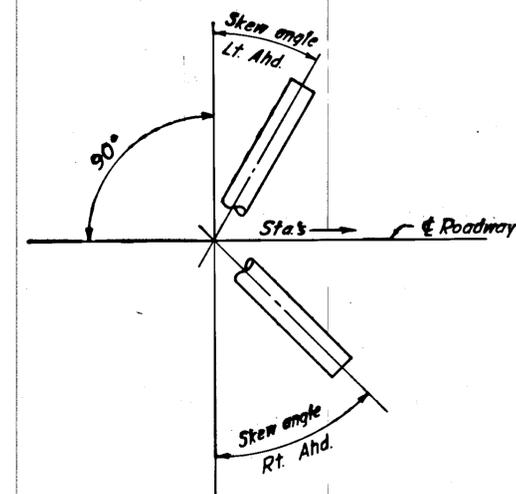


SLOPE PROTECTION DETAIL

Sta. 676+75 to Sta. 677+00 RT
Sta. 705+27 to Sta. 705+82 RT
Sta. 717+48 to Sta. 717+68 RT

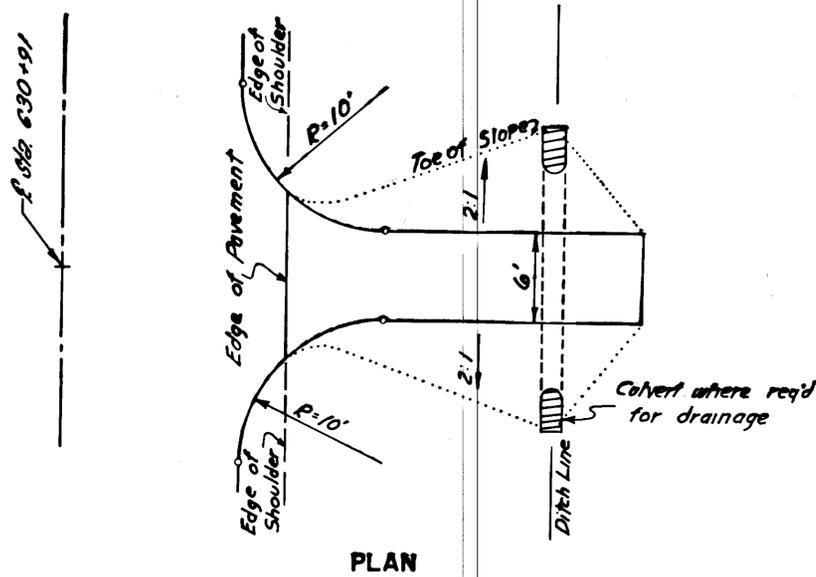


DITCH BLOCK DETAIL

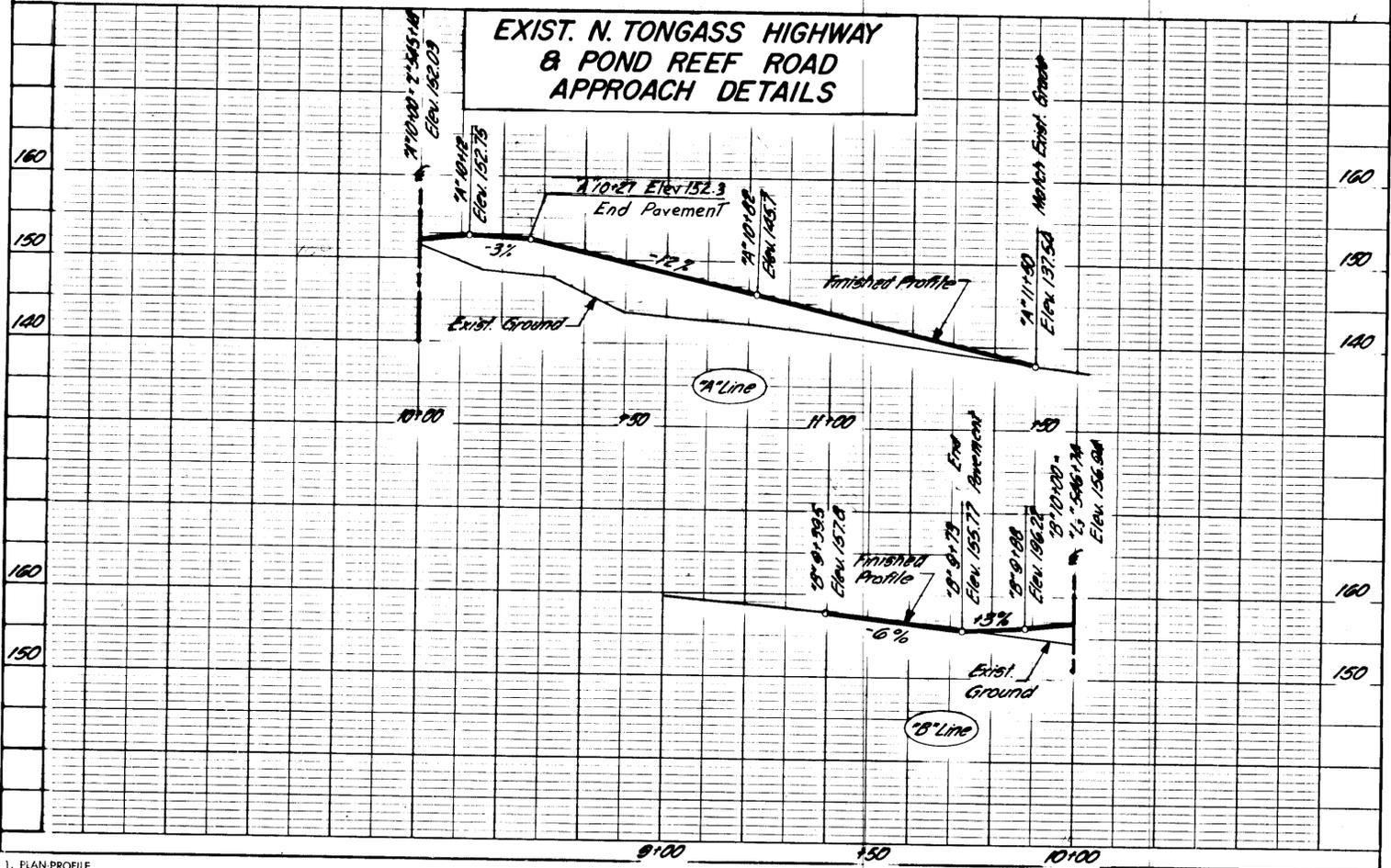
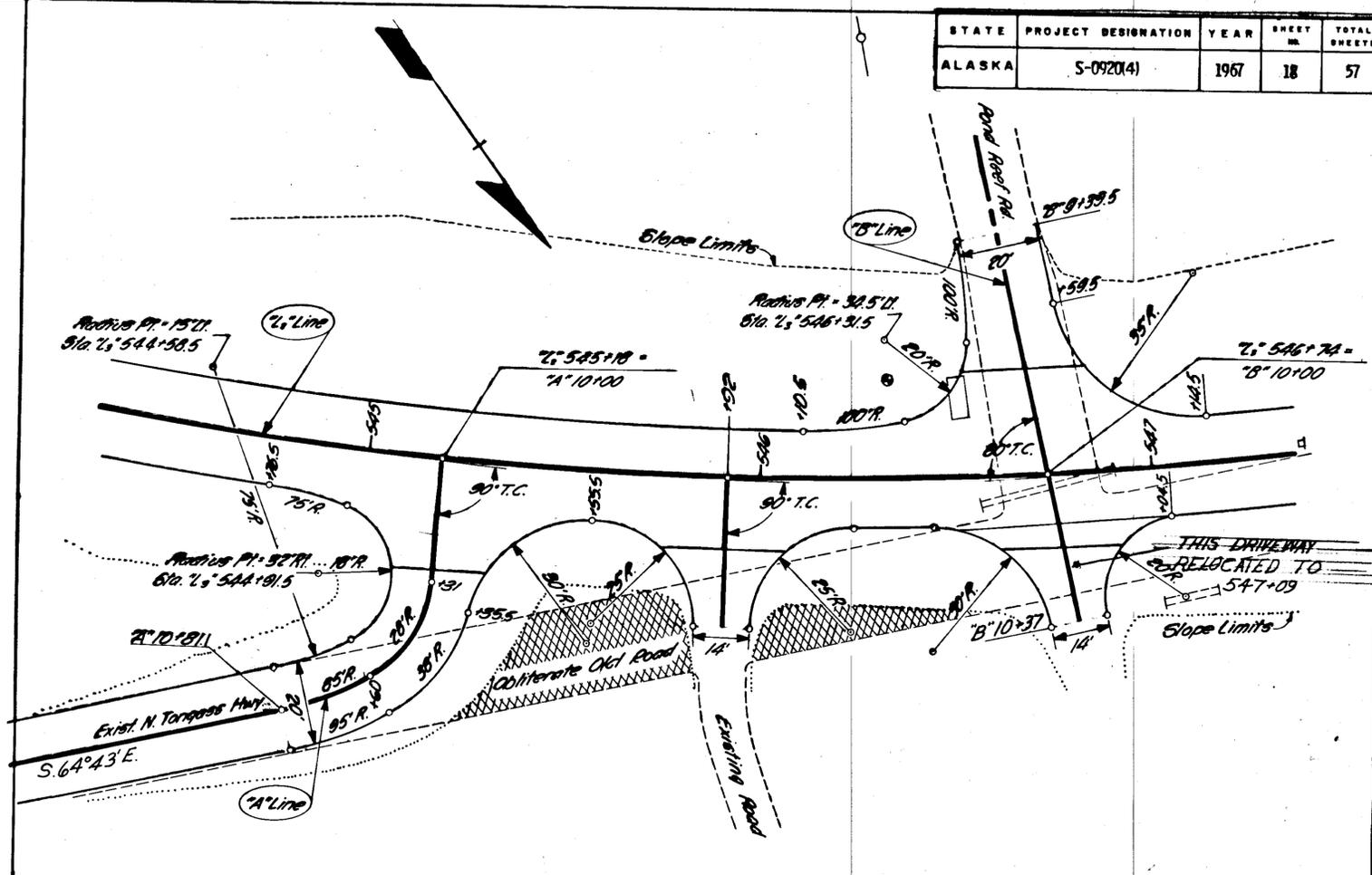
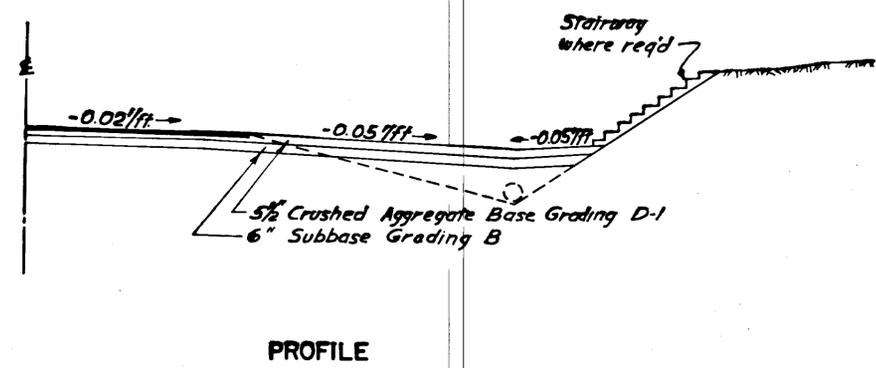


CULVERT SKEW ANGLE

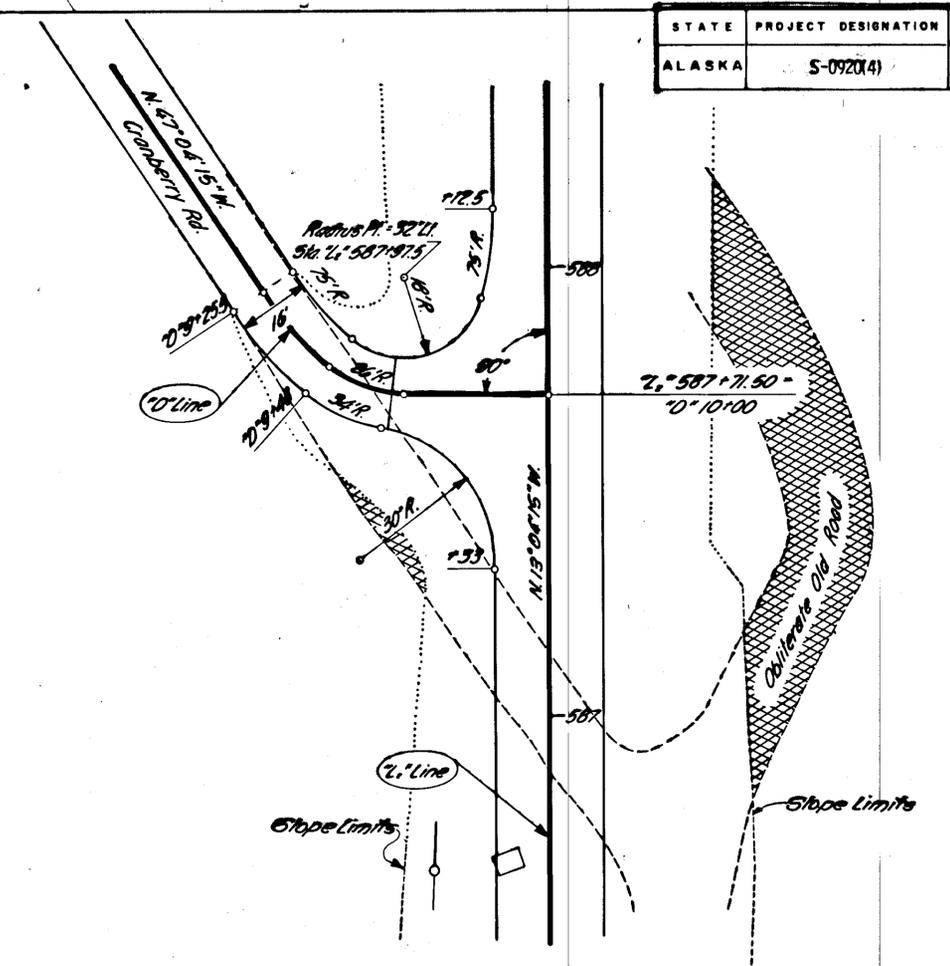
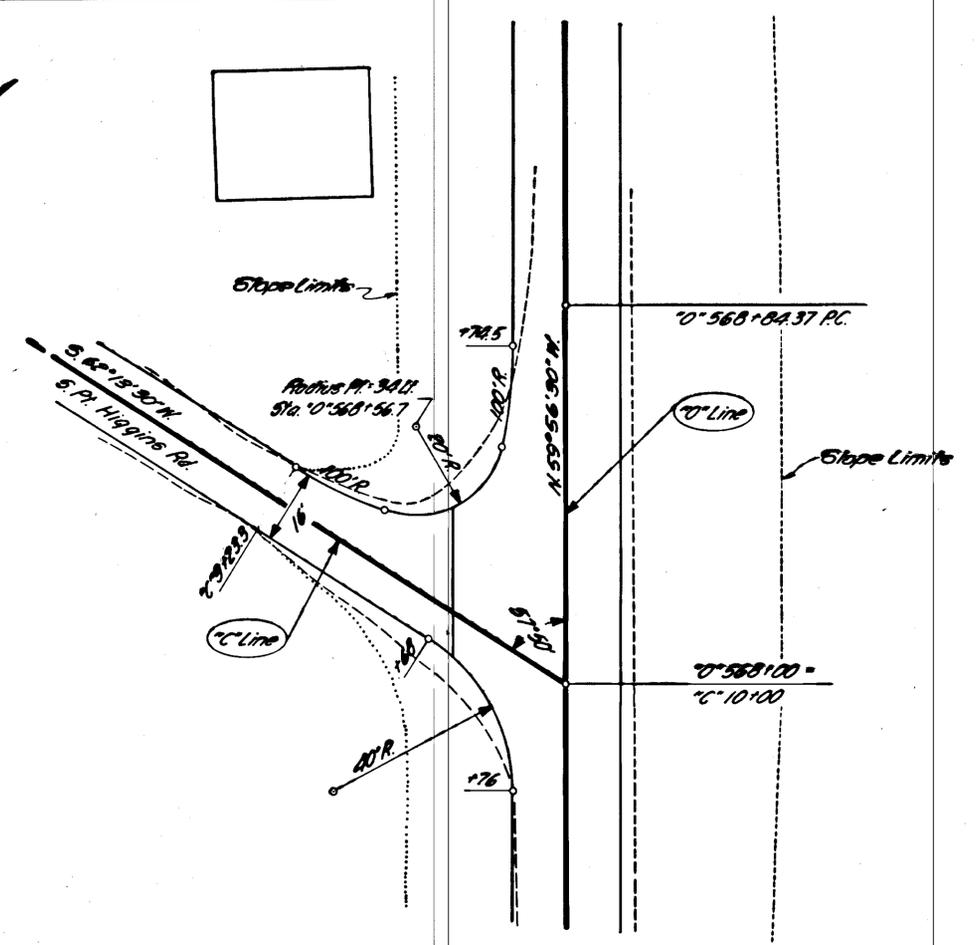
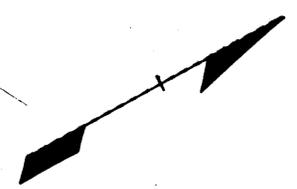
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0920(4)	1967	18	57



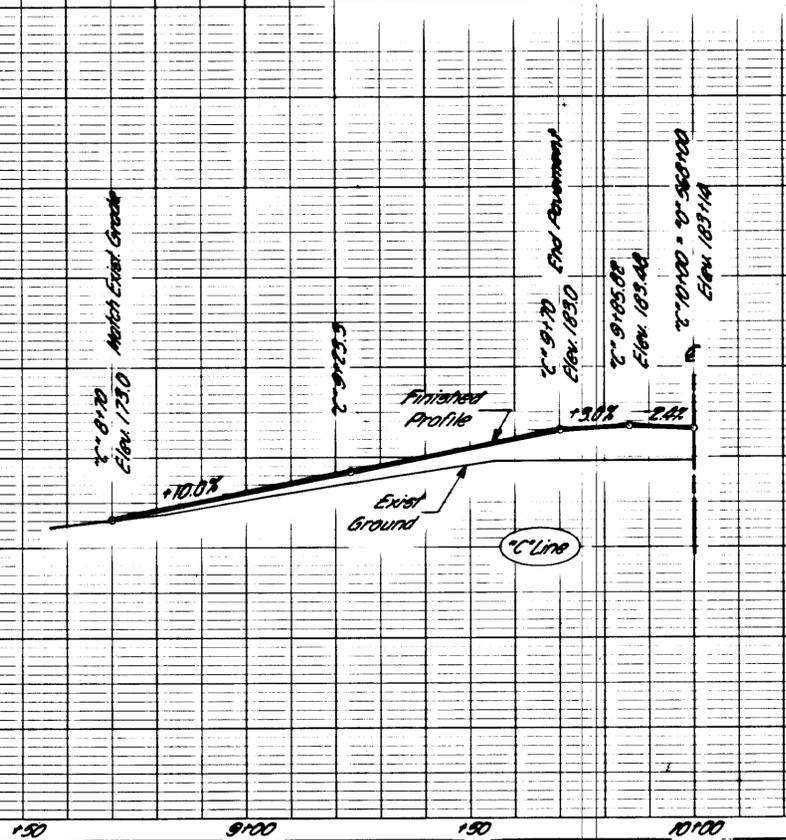
TYPE 4 APPROACH DETAIL



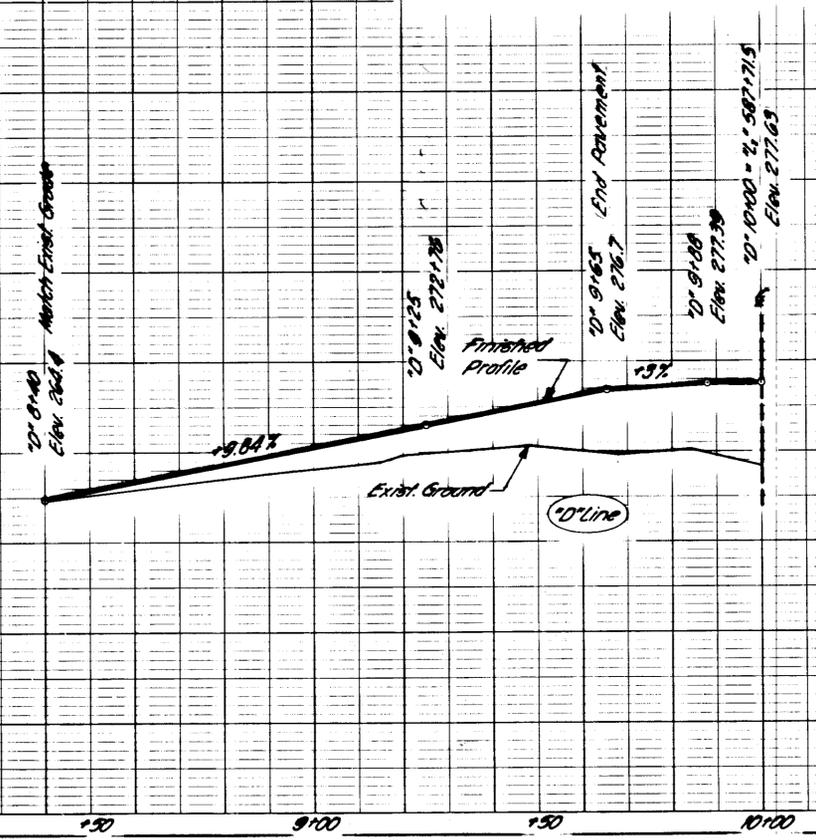
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0920(4)	1967	19	57



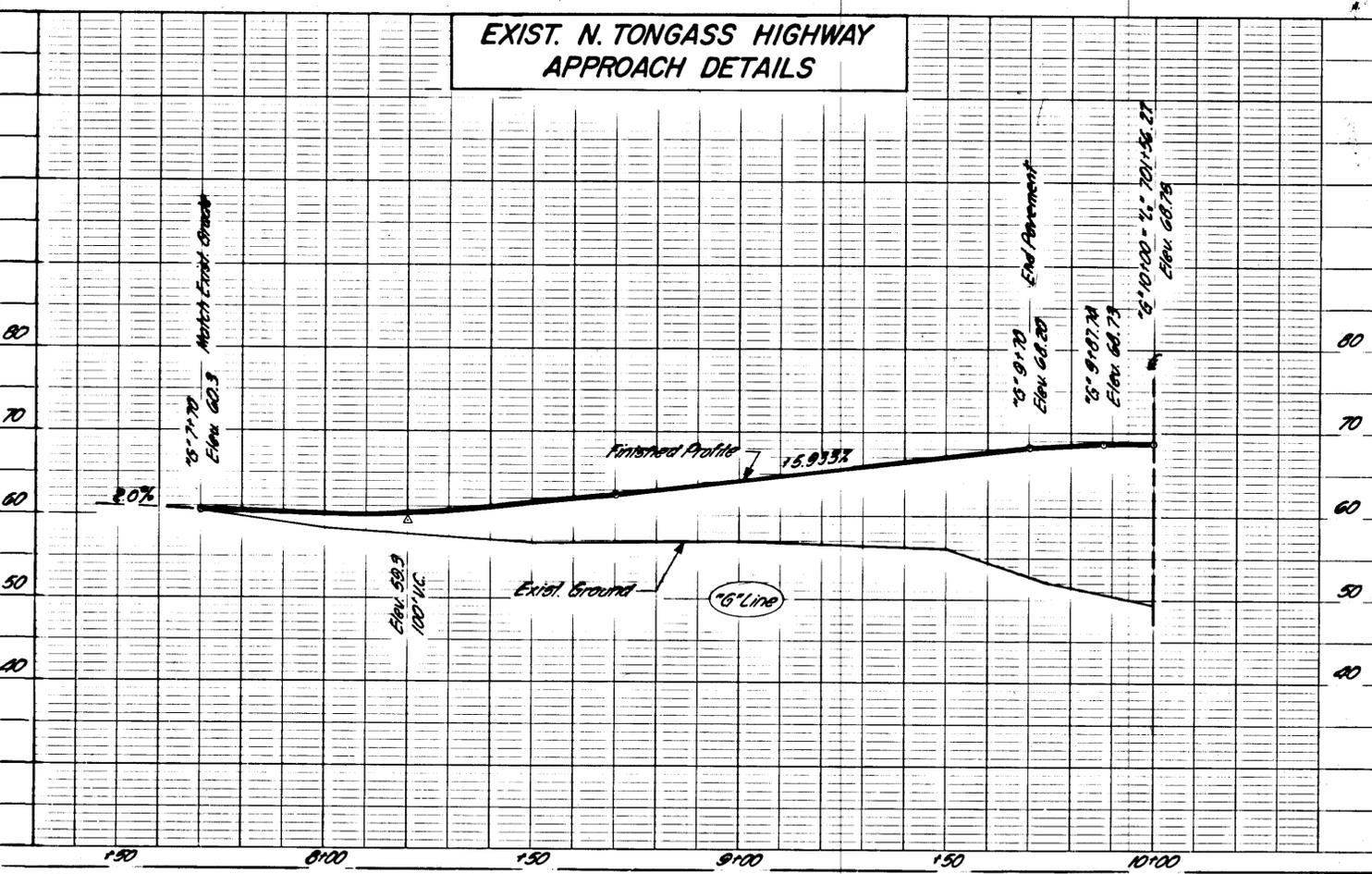
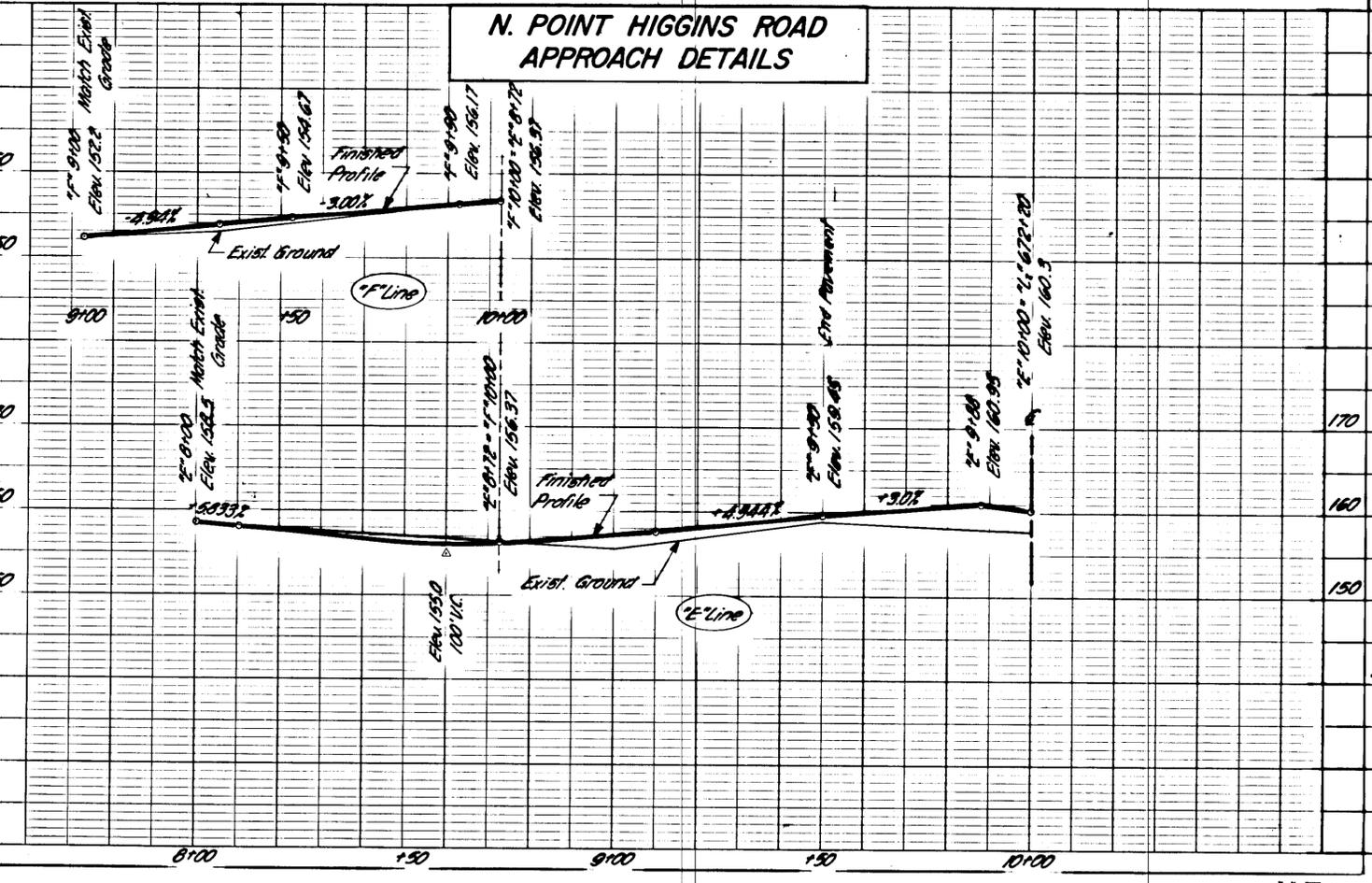
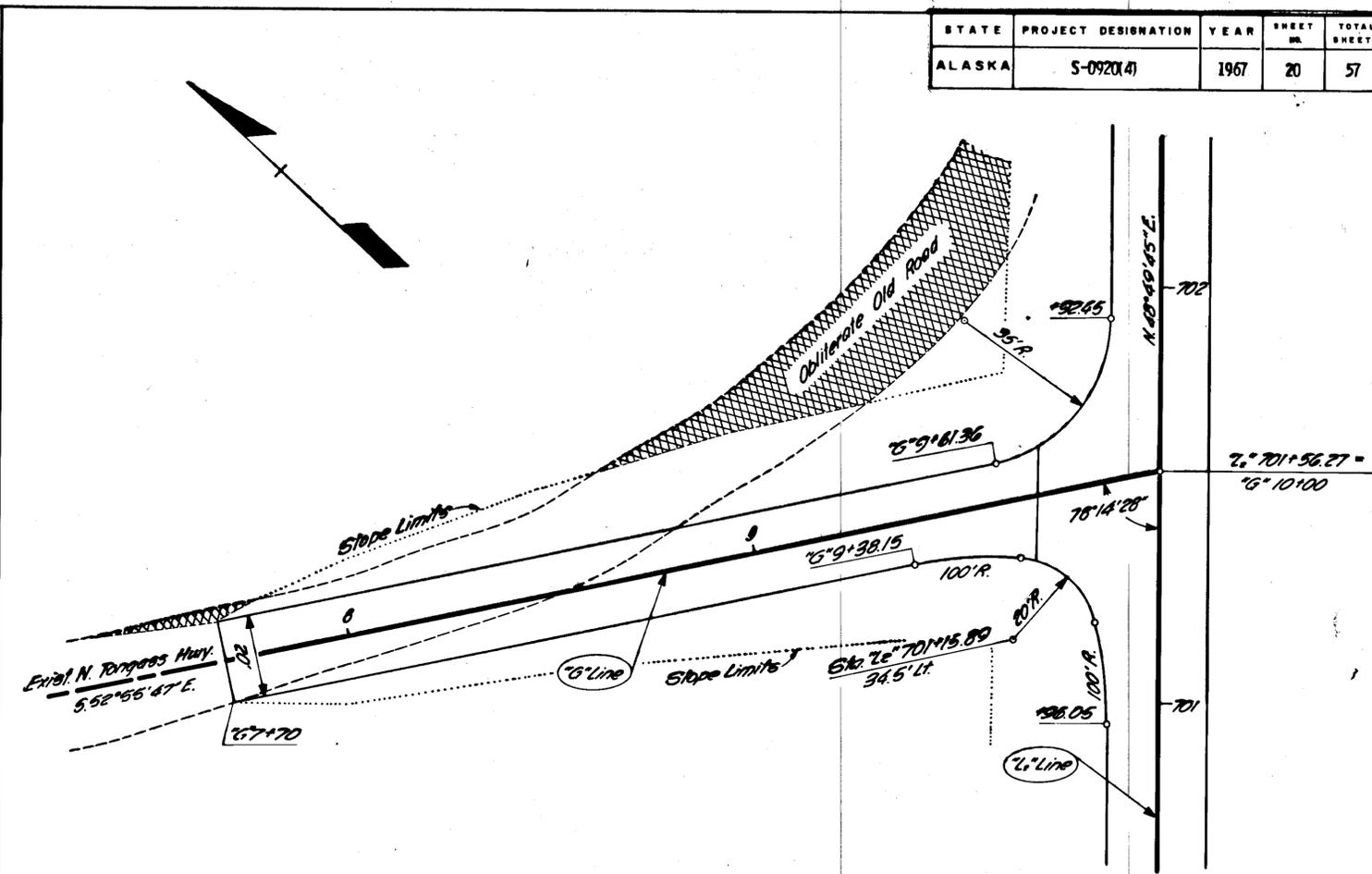
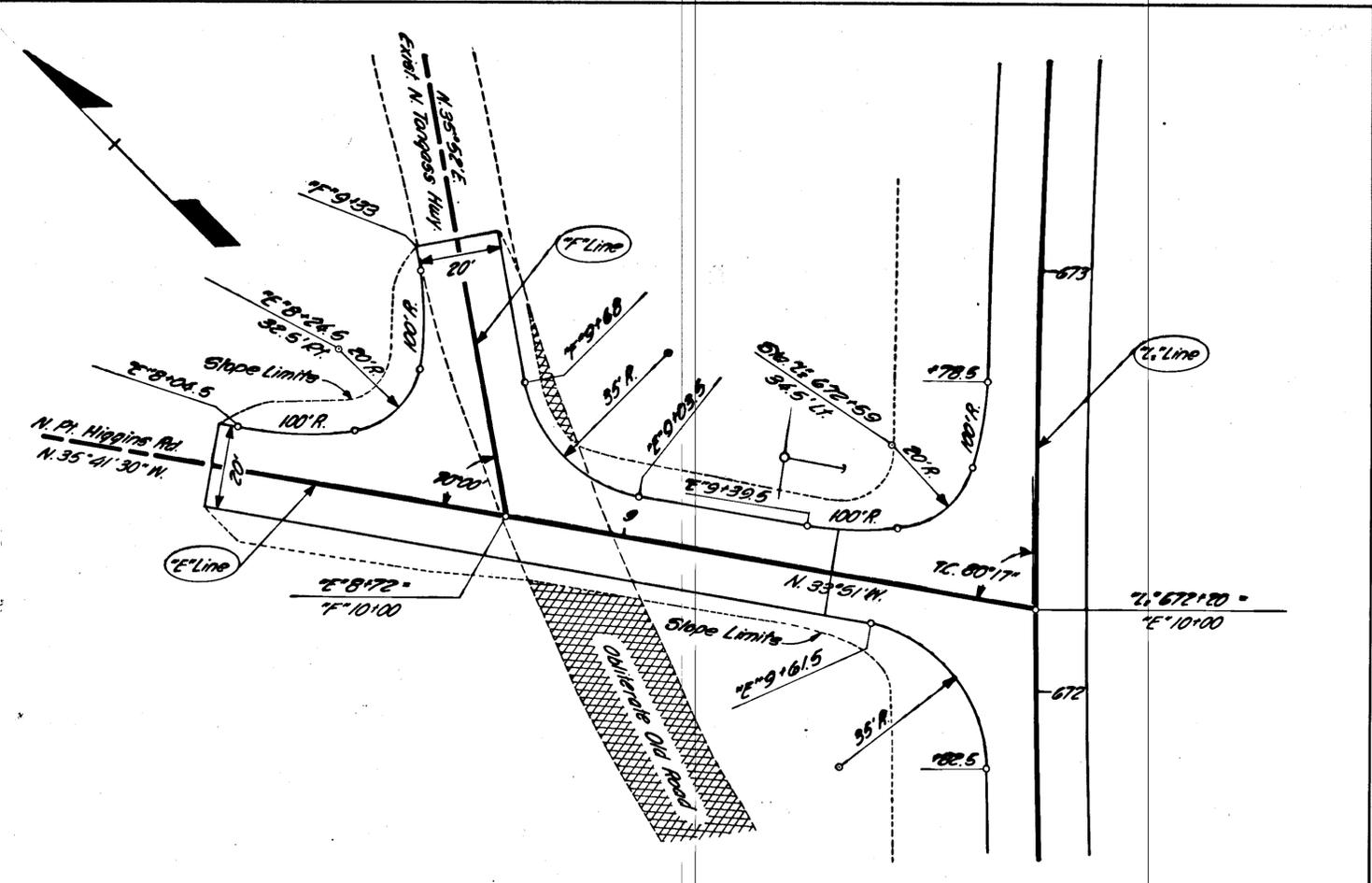
**S. POINT HIGGINS ROAD
APPROACH DETAILS**

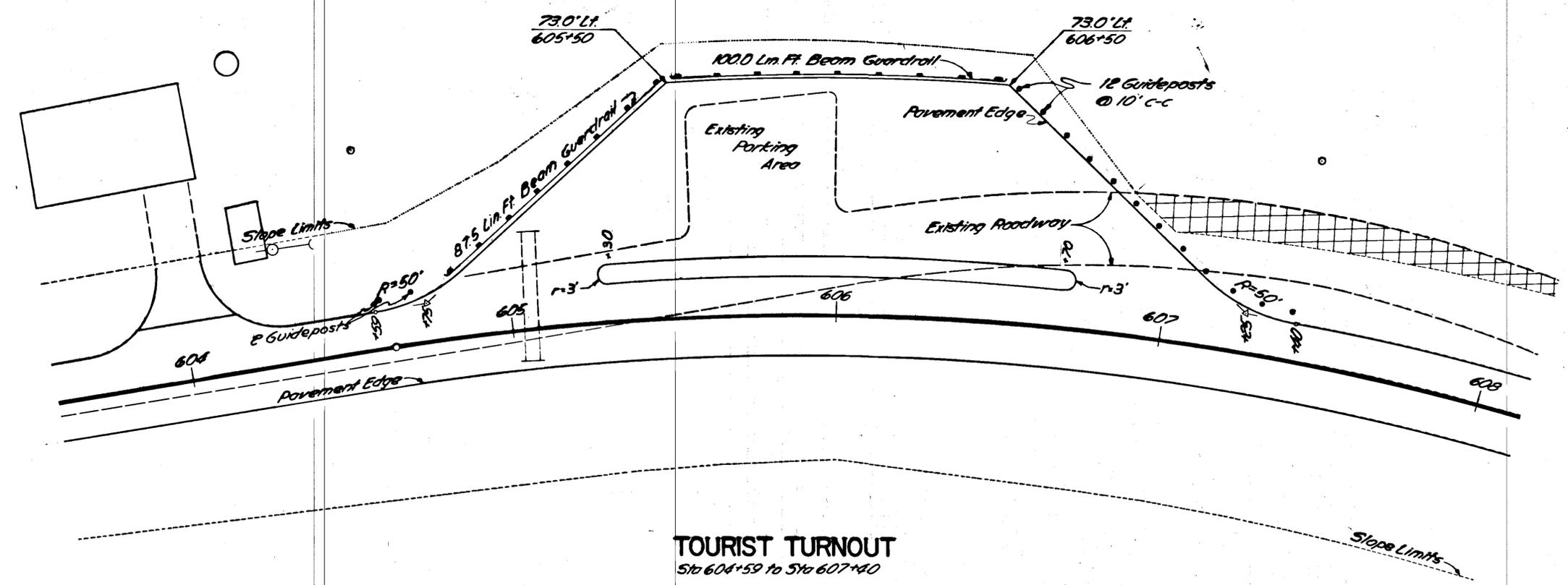


**CRANBERRY ROAD
APPROACH DETAILS**

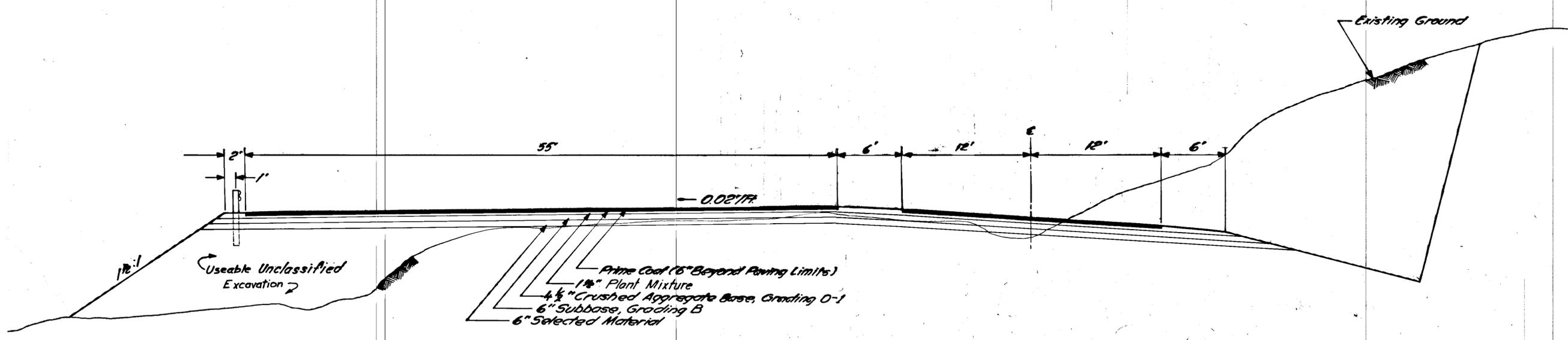


STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	S-0920(4)	1967	20	57

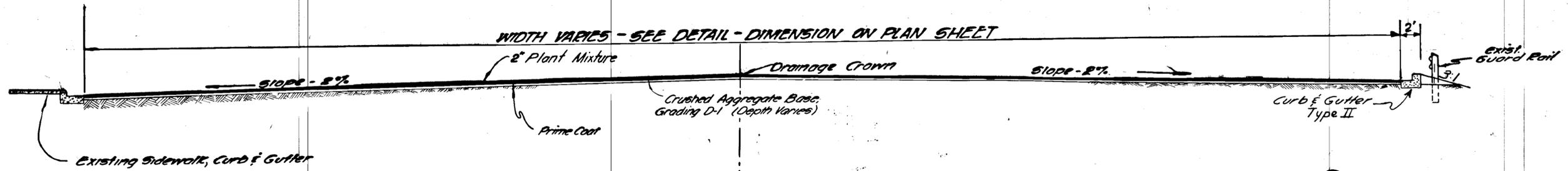




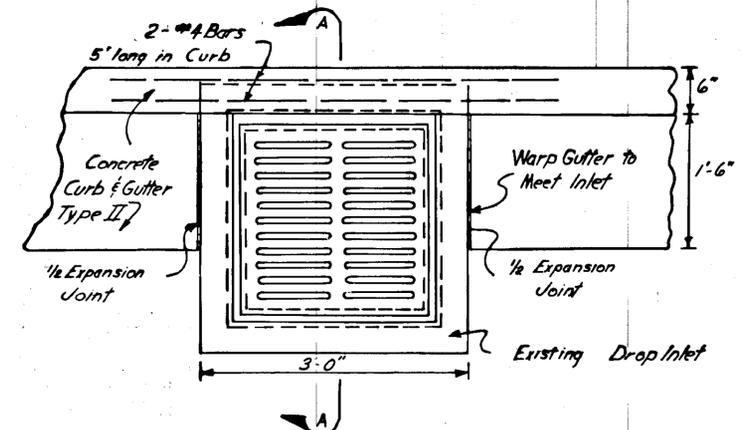
TOURIST TURNOUT
Sta 604+59 to Sta 607+40



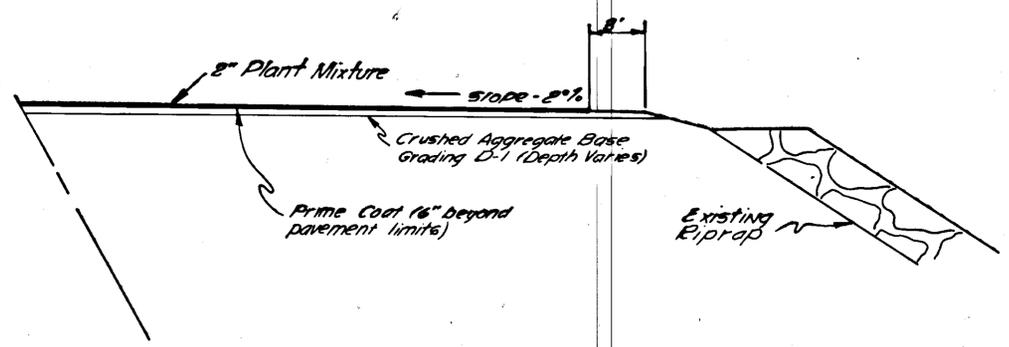
TYPICAL SECTION
TOURIST TURNOUT



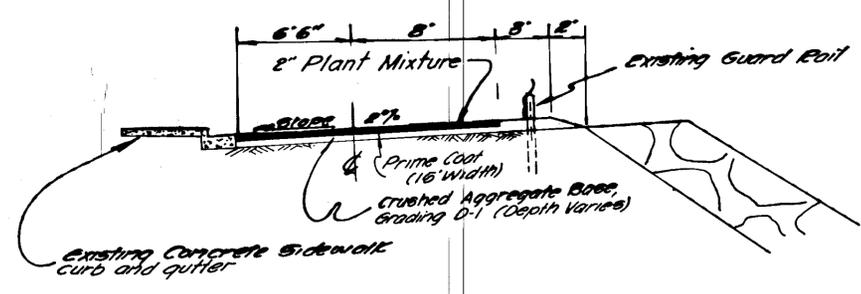
TYPICAL SECTION OF IMPROVEMENTS



CURB AND GUTTER DETAIL AT EXISTING DROP INLET

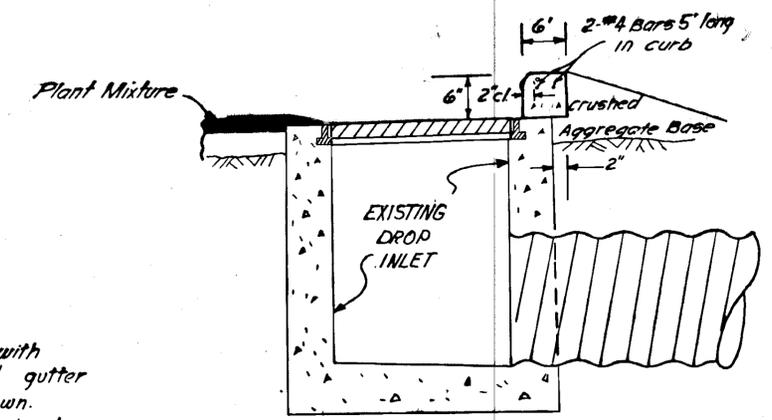


TYPICAL SHOULDER WITHOUT SIDEWALK OR CURB



TYPICAL SECTION
TRANSFER BRIDGE APPROACH
ROAD

DELETED FROM CONTRACT



SECTION A-A

- Notes:
1. All expansion joints shall be sealed with joint filler conforming with AASHO designation M173-60. Expansion joints in the curb and gutter shall be spaced at 30' intervals and at drop inlets as shown.
 2. Reinforcing steel and expansion joint filler shall be considered incidental to item No. 609 (3) and no separate payment will therefore be made.
 3. The Contractor shall take adequate precautions to insure that none of the existing improvements, including guardrails, inlets, sidewalks and building in the Ferry Terminal area are coated or discolored by the application of the prime coat.

LEGEND

SPACING

INCH, SERIES CAPITALS; INCH LOWER CASE (INCH LOOP HEIGHT)

Letter	W	N	L	P	P	L	E												
Letter Width	3.75	2.73	1.70	2.73	2.73	2.50	2.50												
Space Width	.84	1.05	1.05	1.05	1.05	1.05	.84												
Cumulative Width	3.75	4.59	7.32	8.37	9.07	10.12	12.85	13.90	16.63	17.68	20.18	21.02	23.52						

INCH, SERIES CAPITALS; INCH LOWER CASE (INCH LOOP HEIGHT)

Letter	G	R	E	E	K														
Letter Width	2.73	2.73	2.50	2.50	2.73														
Space Width	.84	1.04	.84	.84															
Cumulative Width	2.73	3.57	6.30	7.34	9.84	10.68	13.18	14.02	16.75										

INCH, SERIES CAPITALS; INCH LOWER CASE (INCH LOOP HEIGHT)

Letter	F	M	E	E	D	N	S	R	D										
Letter Width	1.69	1.50	1.69	1.69	1.50	1.69	1.69	1.69	1.69	1.50									
Space Width	.75	.75	.60	.75	.75	.75	.75	.75	.75	.50									
Cumulative Width	1.69	2.44	2.94	3.69	5.38	5.98	7.67	8.42	8.92	9.67	11.36	12.11	13.80	1.69	2.44	4.13	4.63	5.13	

INCH, SERIES CAPITALS; INCH LOWER CASE (INCH LOOP HEIGHT)

Letter	F	I	P	F	E	C	D	N	E										
Letter Width	1.69	1.50	1.69	1.50	1.50	1.69	1.81	1.84	1.50										
Space Width	.50	.60	.60	.60	.60	.60	.60	.60	.50										
Cumulative Width	1.69	2.19	2.69	1.69	2.29	3.79	3.79	4.29	1.69	2.29	4.10	4.70	6.54	7.14	8.64				

INCH, SERIES CAPITALS; INCH LOWER CASE (INCH LOOP HEIGHT)

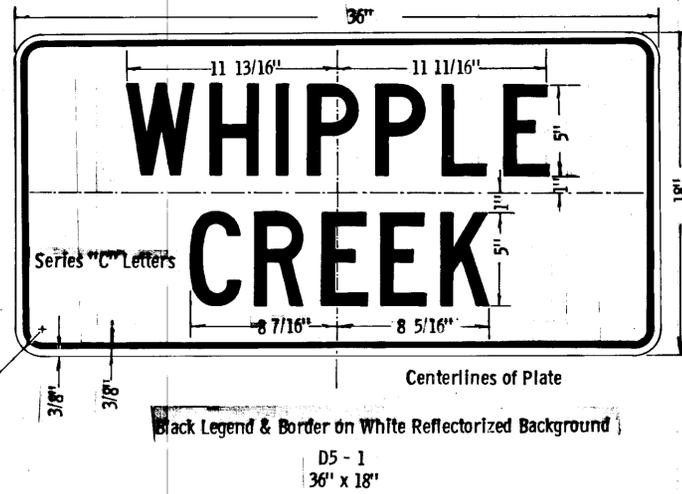
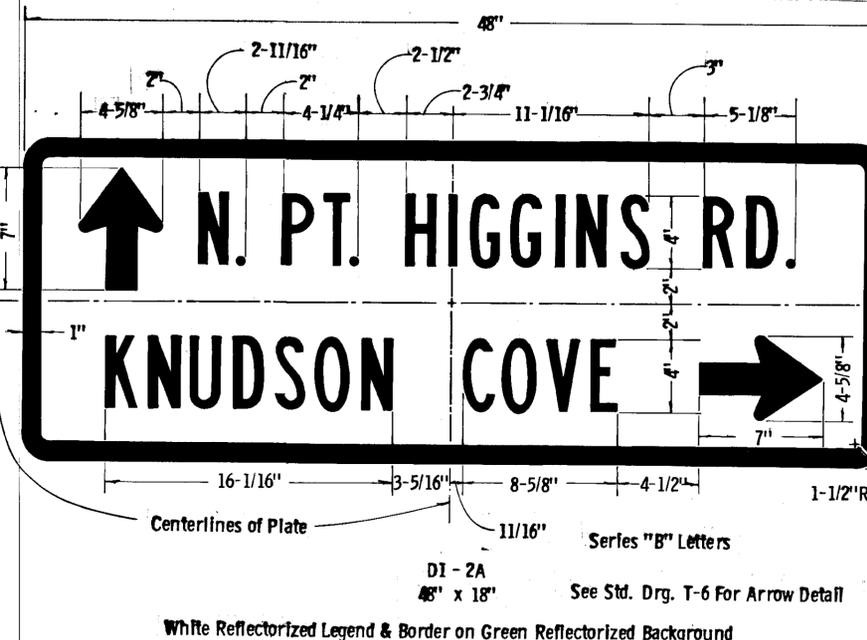
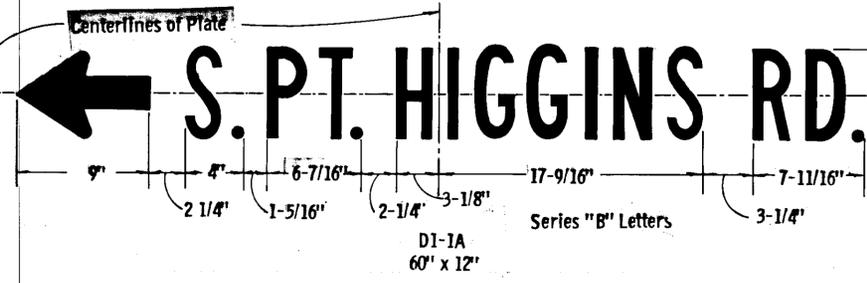
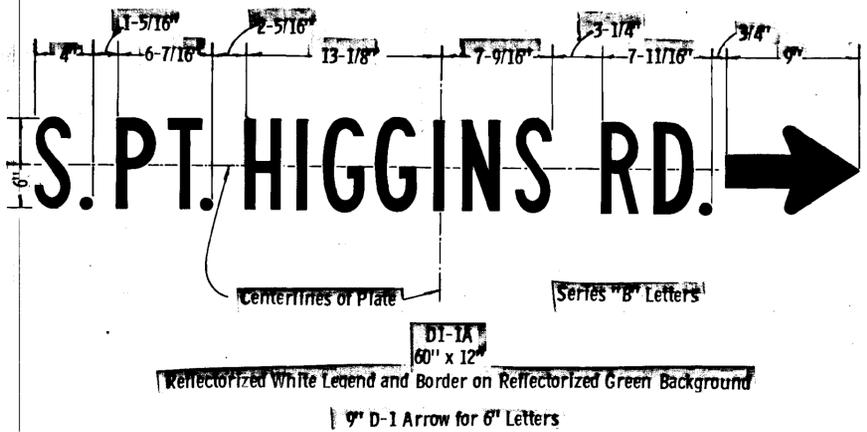
Letter	K	N	G	B	B	D	N												
Letter Width	1.75	1.69	1.69	1.69	1.69	1.81	1.69												
Space Width	.60	.75	.75	.60	.60	.75													
Cumulative Width	1.75	2.35	4.04	4.79	6.48	7.23	8.92	9.52	11.21	11.81	13.62	14.37	16.06						

INCH, SERIES CAPITALS; INCH LOWER CASE (INCH LOOP HEIGHT)

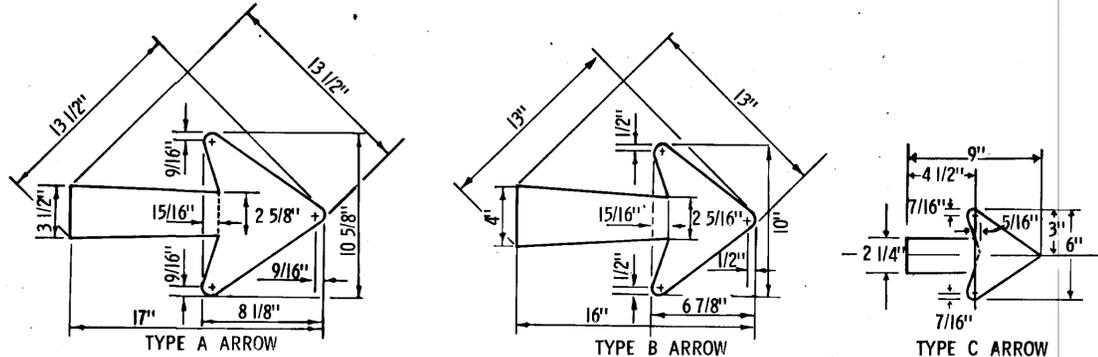
Letter																			
Letter Width																			
Space Width																			
Cumulative Width																			

INCH, SERIES CAPITALS; INCH LOWER CASE (INCH LOOP HEIGHT)

Letter																			
Letter Width																			
Space Width																			
Cumulative Width																			



- General Notes
1. All green, white, and blue sign facings shall be reflectORIZED per Standard Specification 615.
 2. All D1 and D2 sign mounting holes shall be as per other drawings.
 3. All alphabets, including numerals, shall be in accordance with "Standard Alphabets For Highway Signs," edition of 1966, as published by the Bureau of Public Roads, U. S. Department of Commerce.



STANDARD SIGN DETAILS

LEGEND

SPACING

-----INCH, SERIES B-----CAPITALS; -----INCH LOWER CASE (-----INCH LOOP HEIGHT)

Letter	N	L	P	T	C	O	V	E
Letter Width	2.53	.75	2.53	2.25	.75	2.53	2.72	2.77
Space Width		.75		1.90	0.00		.90	.90
Cumulative Width	2.53	3.28	4.03		2.53	3.43	5.68	5.58
					6.43		2.53	3.43
					6.15		7.05	9.87
					10.72		12.97	

-----INCH, SERIES B-----CAPITALS; -----INCH LOWER CASE (-----INCH LOOP HEIGHT)

Letter	R	D	H	I	G	I	N	S
Letter Width	2.53	2.53	.75	2.53	.75	2.53	2.53	.75
Space Width		1.13		1.75		1.13		1.13
Cumulative Width	2.53	3.66	6.19	6.94	7.69		2.53	3.66
					4.41		5.54	8.07
					8.97		11.90	12.63
					13.38		14.51	17.04
					18.17		20.70	

-----INCH, SERIES B-----CAPITALS; -----INCH LOWER CASE (-----INCH LOOP HEIGHT)

Letter	C	R	A	N	B	E	R	R	V
Letter Width	2.53	2.53	3.19	2.53	2.53	2.25	2.53	2.53	3.19
Space Width		.90		.90		1.13		1.13	.90
Cumulative Width	2.53	3.43	5.96	6.86	10.05	10.95	13.48	14.61	17.14
					18.27		20.52	21.42	23.95
					25.08		27.61	28.51	31.70

-----INCH, SERIES B-----CAPITALS; -----INCH LOWER CASE (-----INCH LOOP HEIGHT)

Letter	K	N	U	D	S	O	N	S
Letter Width	2.62	2.53	2.62	2.53	2.53	2.72	2.53	2.53
Space Width		.90		1.13		1.13		.90
Cumulative Width	2.62	3.52	6.05	7.18	9.71	10.93	13.46	14.36
					16.89		17.79	20.51
					21.64		24.17	
					25.3		3.28	4.03

-----INCH, SERIES B-----CAPITALS; -----INCH LOWER CASE (-----INCH LOOP HEIGHT)

Letter	F	O	D	R	E	E	F
Letter Width	2.53	2.72	2.53	2.53	2.53	2.25	2.25
Space Width		.90		1.13		1.13	.90
Cumulative Width	2.53	3.43	6.15	7.28	9.81	10.94	13.47
					2.53	3.66	5.91
					6.81		9.06
					9.96		12.21

-----INCH, SERIES B-----CAPITALS; -----INCH LOWER CASE (-----INCH LOOP HEIGHT)

Letter							
Letter Width							
Space Width							
Cumulative Width							

-----INCH, SERIES B-----CAPITALS; -----INCH LOWER CASE (-----INCH LOOP HEIGHT)

Letter							
Letter Width							
Space Width							
Cumulative Width							

