STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FH 006-1(1)	1975	1	

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

PROPOSED HIGHWAY PROJECT

FH-006-1(1)

HARRIS RIVER TO HOLLIS
GRADING, DRAINAGE AND
AGGREGATE SURFACING

AS BUILT PLANS

CONTRACTOR: LUNDGREN NORTHWEST & ASSOCIATES

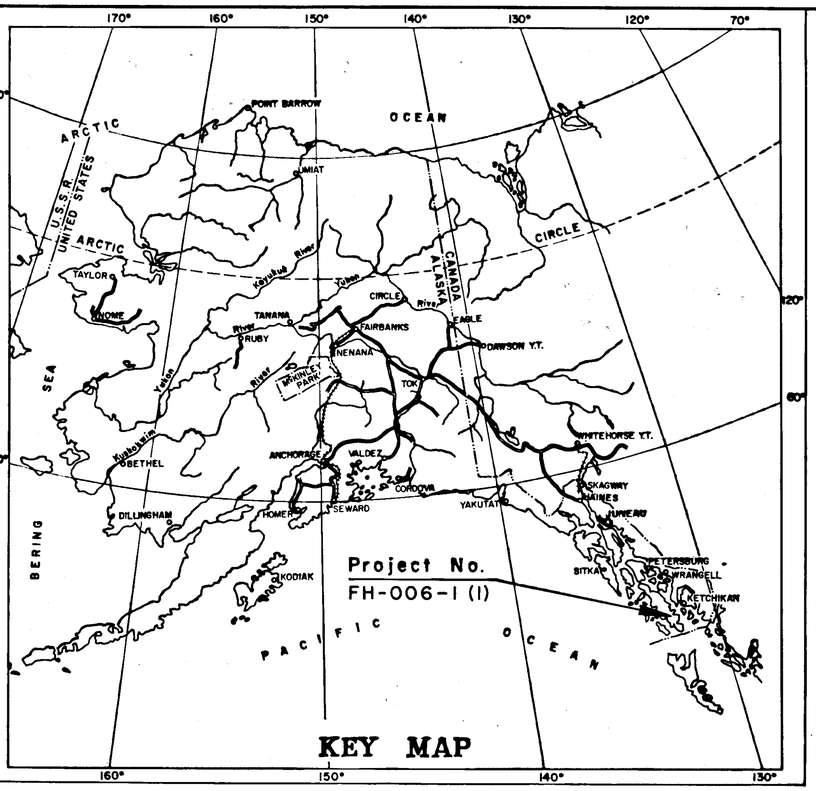
PROJECT ENGINEER: JOHN S. MCGRATH

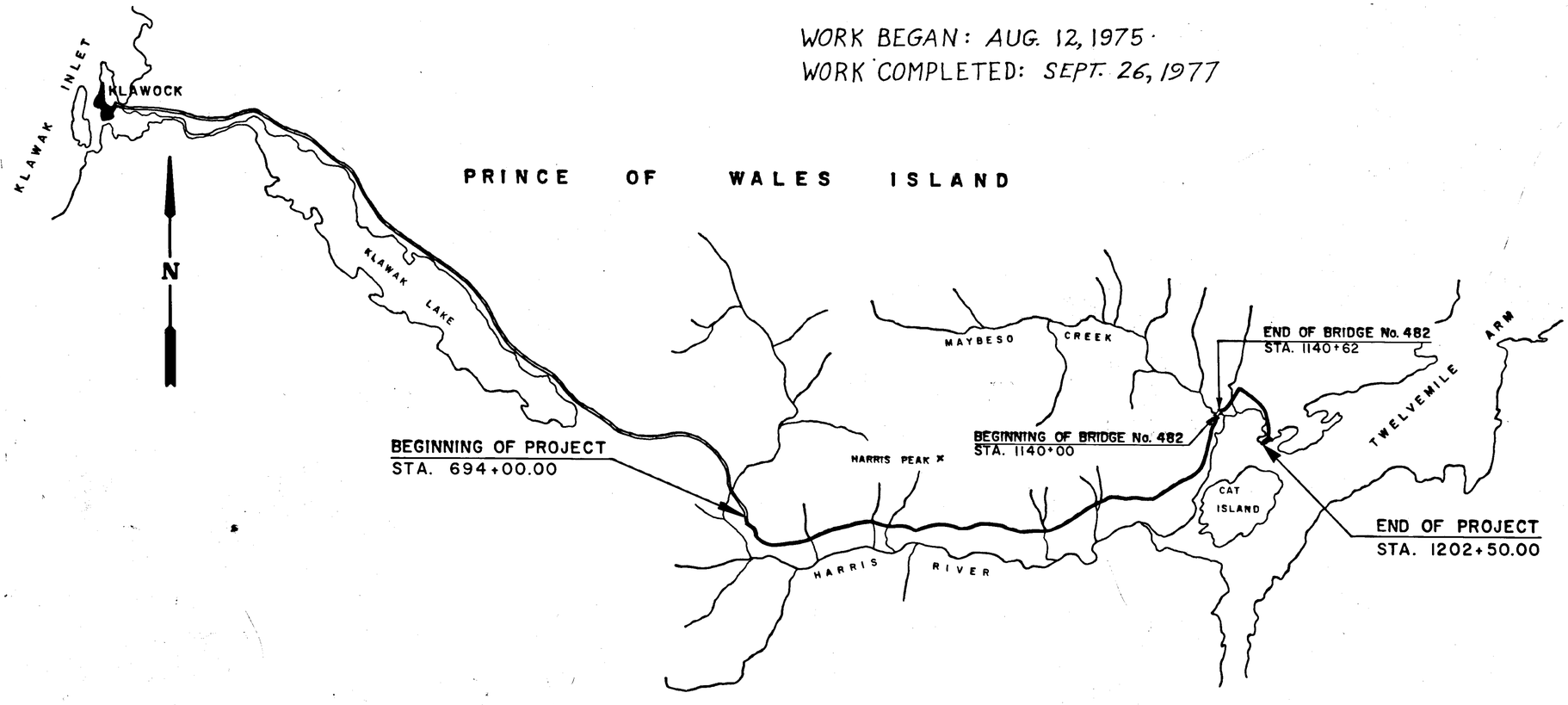
WORK BEGAN: AUG. 12, 1975

WORK COMPLETED: SEPT. 26, 1977

INDEX OF SHEETS

The following standard drawings apply to this project;
A-1, C-00.01, C-10.00, C-11.01, D-02.01, D-03.01, D-09.00, G-04.00, G-04.11, G-10.11, G-30.01, G-30.12, I-80.00, S-00.10, S-05.00, S-20.00, S-30.00.





DESIGN DESIGNATION

ADT 1974	= 55
ADT 1995	= 110
DHV	= 28
D	= 30-70
T	= 4%

PROJECT SUMMARY

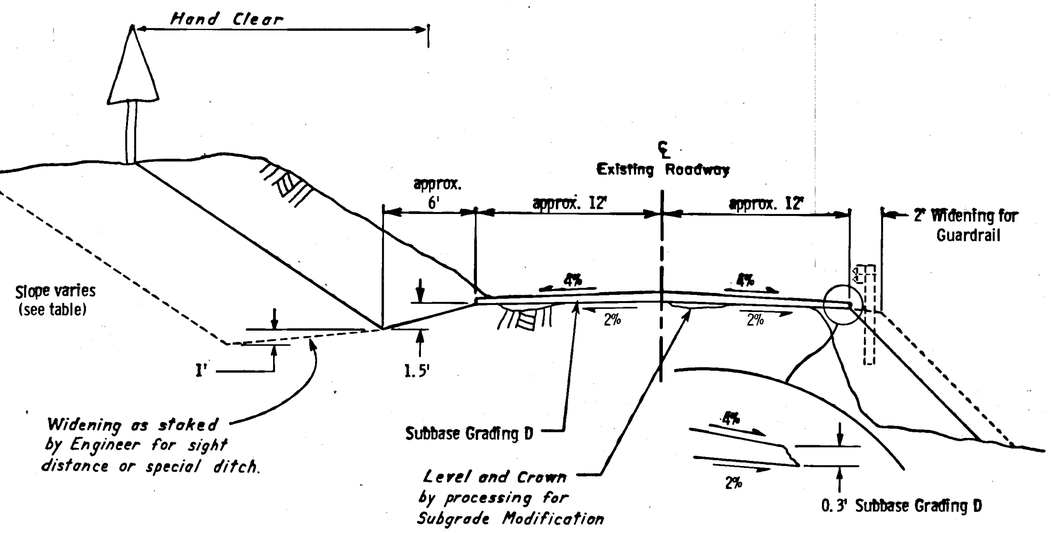
WIDTH OF SUBGRADE	24'	
LENGTH OF GRADING	53,749.56'	= 10.180 mi.
LENGTH OF BRIDGE	60'	= 0.011 mi.
LENGTH OF PROJECT	53,809.56'	= 10.191 mi.

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

APPROVED
Warren E. Wild Date 4/22/78
SOUTHEAST DISTRICT ENGINEER

APPROVED
Shannon for Date 4/22/78
COMMISSIONER OF HIGHWAYS

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FH 006-1(1)	1975	2	18



B.O.P. -694+00 to E.O.P. -1202+50

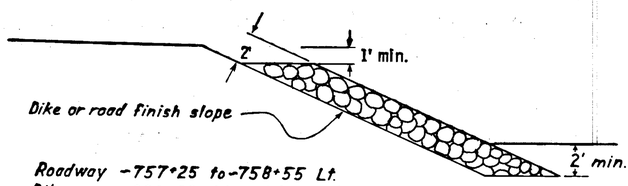
TYPICAL SECTION

SLOPE TABLE

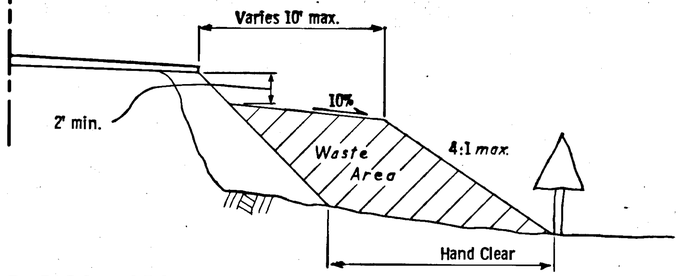
ALL HEIGHTS

	Rock	Soil	Waste
Cut	1/4 : 1	1 1/2 : 1	-
Fill	1/2 : 1	2 : 1	1 1/2 : 1 to 4 : 1 as staked

TYPICAL RIPRAP INSTALLATION

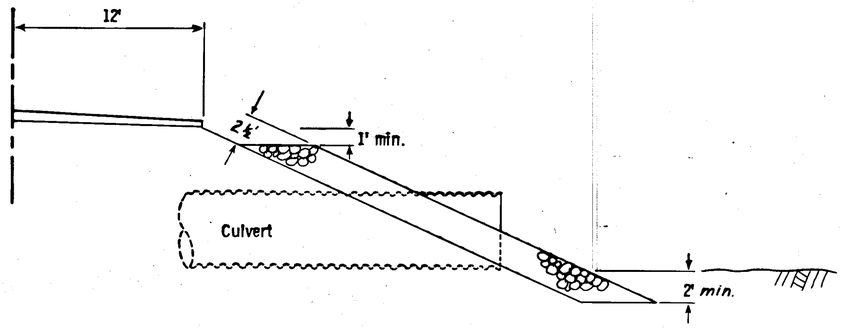


Roadway -757+25 to -758+55 Lt.
Dike -820+00 Lt. and Rt.
Dike -998+60 Lt.

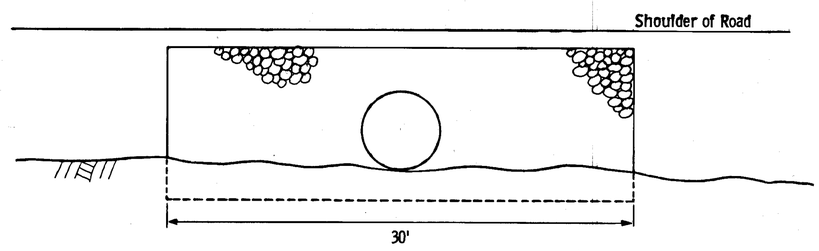


TYPICAL SECTION SLOPE FLATTENING

TYPICAL CULVERT END PROTECTION

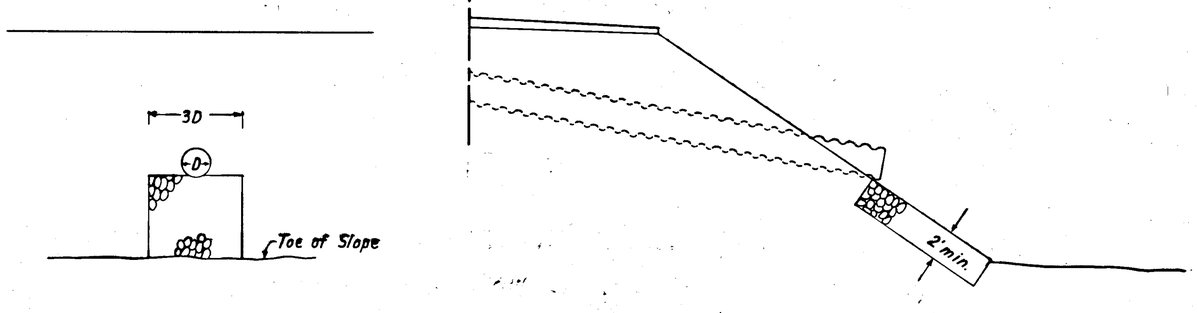


CROSS SECTION



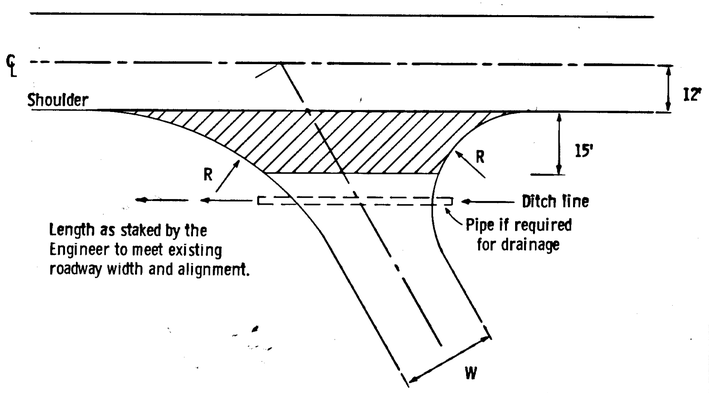
-820+00, -998+60 (Inlet only), -1121+10

INLET - OUTLET ELEVATION

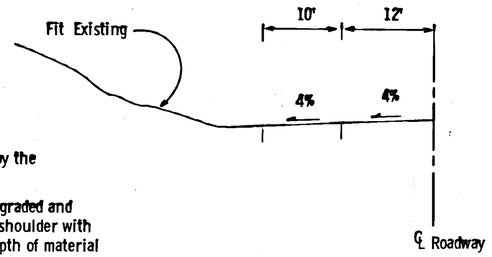


ROCK OUTLET DETAIL

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FH 006-1(1)	1975	3	18



APPROACH DETAIL



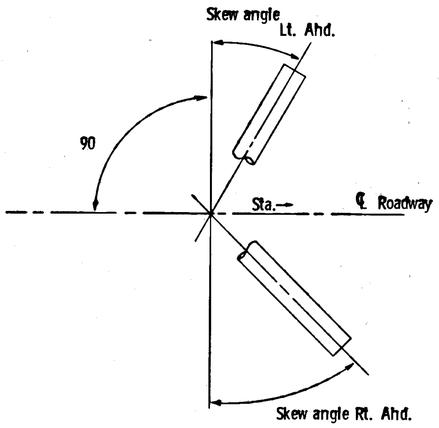
NOTES

R - Radius as staked by the Engineer

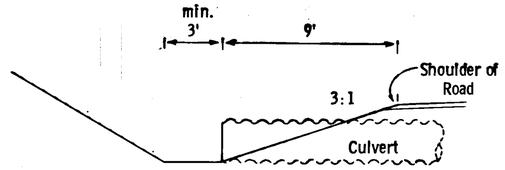
Approaches shall be graded and surfaced 15' beyond shoulder with the same type and depth of material as specified for the roadway. Beyond this point approaches shall be surfaced the same as the connecting road. Approach side slopes shall match existing construction.

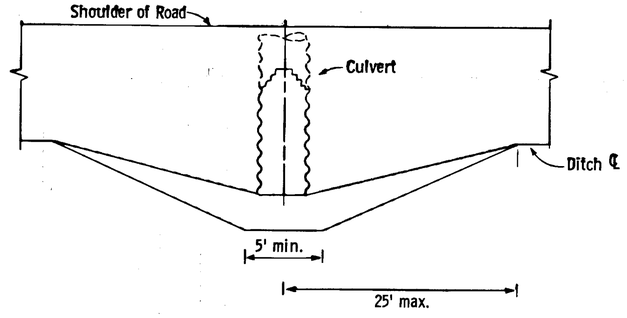
W - Varies, construct as staked by the Engineer.

APPROACH PROFILE



CULVERT SKEW





CULVERT INLET DETAIL

GENERAL NOTES

1. Hand clearing must be completed in advance of excavation or waste disposal.
2. Stumps, stump butts, logs, limbed trees and brush may be buried in waste. No stumps, log or brush will be placed so as to protrude from the waste fill.
3. The variable dimension shown on the typical sections for waste berms will be used to provide a uniform width of prism where roadway width varies.
4. Rock outlet detail will be paid for under item *203 (3), unclassified excavation.*
5. Excavation for culvert installation and or culvert removal work will encounter large logs, log cribs, bedrock and possible stumps. Such obstruction will be considered part of the normal excavation. Disposal in an approved area will be incidental to the item of work being performed.
6. Culverts indicated for "Removal" on the plan sheets will be removed and disposed of as in Section 202 of the specifications.
7. Processing for Subgrade Modification item 302(3) will include shaping the roadway to the template and restoring ditches along the entire project.
8. Existing signs will be removed by others.
9. Embankment widening as shown on the plans and or staked by the engineer will be constructed of materials obtained from *unclassified* Excavation.
10. The heavy centerline shown on the plans is the control line. The existing roadway is to be imporved. Pay quantities based on the length of roadway will be calculated along the length of the existing roadway.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FH 006-/(1)	1975	4	18

SIGNING SCHEDULE

STATION	LEFT / RIGHT	CODE NO.	LEGEND	SIZE	
"L"690+00	Right	R2-1	35 MPH	30" X 36"	
"L"872+00	Lt. & Rt.	R2-1	35 MPH	30" X 36"(2)	
"L"1027+94	Right	W1-3R	Reverse Turn	36" X 36"	
"L"1027+94	Right	W13-1	20 MPH	24" X 24"	
"L"1037+40	Left	W1-3L	Reverse Turn	36" X 36"	
"L"1037+40	Left	W13-1	20 MPH	24" X 24"	
"L"1042+50	Right	W1-1L	Turn	36" X 36"	
"L"1042+50	Right	W13-1	25 MPH	24" X 24"	
"L"1046+50	Left	W1-1R	Turn	36" X 36"	
"L"1046+50	Left	W13-1	25 MPH	24" X 24"	
"L"1054+00	Lt. & Rt.	R2-1	35 MPH	30" X 36"(2)	
"L"1083+00	Right	W1-3R	Reverse Turn	30" X 36"	
"L"1083+00	Right	W13-1	20 MPH	24" X 24"	
"L"1087+00	Left	W1-3R	Reverse Turn	36" X 36"	
"L"1087+00	Left	W13-1	20 MPH	24" X 24"	
"L"1105+00	Right	W1-3R	Reverse Turn	36" X 36"	
"L"1105+00	Right	W13-1	20 MPH	24" X 24"	
"L"1113+00	Left	W1-3L	Reverse Turn	36" X 36"	
"L"1113+00	Left	W13-1	20 MPH	24" X 24"	
"L"1117+90	Right	R1-1	Stop	30" X 30"	
"O'"1137+00	Right	W1-1R	Turn	36" X 36"	
"O'"1137+00	Right	W13-1	15MPH	24" X 24"	
"O'"1143+00	Left	W1-1L	Turn	36" X 36"	
"O'"1143+00	Left	W13-1	15 MPH	24" X 24"	
"O'"1169+00	Right	W1-1R	Turn	36" X 36"	
"O'"1169+00	Right	W13-1	15 MPH	24" X 24"	
"L"1173+00	Left	W1-1L	Turn	36" X 36"	
"L"1173+00	Left	W13-1	15 MPH	24" X 24"	
"O²"1186+00	Left	R2-1	35 MPH	30" X 36"	
"O²"1190+00	Left	R1-1	Stop	30" X 30"	
"O²"1196+60	Right	R1-1	Stop	30" X 30"	
"O²"1196+60	Left	R1-1	Stop	30" X 30"	
"O²"1198+00	Right	W2-4	T Symbol	36" X 36"	
"O²"1199+00	Right	R1-1	Stop	30" X 30"	
"O²"1199+30	Left & Right	R1-1	Stop	30" X 30" (2)	

NOTE: All sign posts shall be telescoping perforated steel posts. The 2" size shall be used above ground and 2 1/4" size below ground. Embedment of the 21/4" piece shall be 4'.

RIP RAP SUMMARY

STATION	Lt. / Rt.	QUANTITY
"L"757+25 to 758+55	Left 113.15	~~116~~ Cubic Yards
"L"820+00	Lt. & Rt. 38.59	~~180~~ Cubic Yards
"L"998+60	Left 40.98	~~200~~ Cubic Yards
"L"1120+90 to 1121+30	Lt. & Rt. 82.77	~~71~~ Cubic Yards
"O'"1140+00	Lt. & Rt. 52.63	~~90~~ Cubic Yards
"O'"1161+30	Lt. & Rt. 144.45	~~30~~ Cubic Yards
9/4+70		68.1 " "

GUARDRAIL SUMMARY

STATION	Lt. / Rt.	QUANTITY
"O'"1139+25 to 1140+00	Right	75 Linear Feet
"O'"1139+50 to 1140+00	Left	50 Linear Feet
"O'"1140+62 to 1141+12	Right	50 Linear Feet
"O'"1140+62 to 1141+37	Left	75 Linear Feet

STUMP REMOVAL SUMMARY

STATION	NUMBER	STATION	NUMBER
"L"737+00	2	"L"1004+00	1
"L"738+00	1	"L"1013+00	1
"L"743+00	2	"L"1014+00	1
"L"748+00	1	"L"1018+00	1
"L"766+00	2	"L"1103+00	1
"L"771+00	1	"L"1107+00	1
"L"781+00	2	"L"1122+00	4
"L"811+00	1	"O'"1124+00	2
"L"817+00	1	"O'"1133+00	1
"L"821+00	1	"O'"1137+00	2
"L"823+00	1	"O'"1157+00	3
"L"830+00	1	"O'"1158+00	4
"L"834+00	1	"O'"1162+00	1
"L"853+00	1	"O'"1165+00	3
"L"893+00	2	"O'"1178+00	1
		"O'"1181+00	2
"L"900+00	1	"O'"1191+00	2
"L"911+00	1		
"L"913+00	1	"L"1179+00	2
"L"940+00	1		
"L"945+00	1	"O²"1183+00	1
"L"946+00	1		
"L"947+00	1		
"L"959+00	1		
"L"964+00	1		
"L"976+00	1		
"L"977+00	1	TOTAL	66
"L"998+00	1		

706+05 R 1	894+75 R 1	1155+75 R 1
716+50 R 1	899+65 R 1	1156+25 L 1
716+65 R 1	902+35 R 1	1156+75 L 1
721+20 R 1	908+80 R 1	1157+60 L 1
723+40 R 1	911+00 R 1	1158+00 L 1
728+40 R 2	903+48 R 1	1158+65 L 1
736+70 R 1	908+15 R 1	1161+65 L 1
737+62 R 1	916+25 R 1	1162+00 R 1
741+45 R 1	917+35 L 1	1166+00 R 1
742+30 R 1	932+10 R 1	1166+50 R 1
742+99 R 1	937+20 R 1	1170+00 L 1
743+21 R 1	945+10 R 1	1173+00 L 1
744+29 R 2	945+70 R 1	1177+95 R 1
744+35 R 2	946+50 L 1	1181+80 R 1
753+06 R 1	956+88 R 1	1192+00 R 1
753+26 R 1	960+00 R 1	1192+15 R 1
767+80 R 1	963+60 R 1	1179+00 R 1
772+00 R 1	985+62 R 1	1179+40 R 1
790+55 R 1	996+00 R 1	1181+75 L 1
781+35 R 1	998+00 R 1	1183+70 R 1
787+75 R 1	1012+70 R 1	1184+96 L 1
767+12 R 1	1013+30 R 1	903+00 R 1
811+40 R 1	1029+90 R 1	889+00 R 1
900+50 R 1	1036+50 R 1	889+50 R 1
823+15 R 1	1103+00 R 1	890+55 R 1
830+55 R 1	1120+30 L 1	879+75 R 1
908+82 R 1	1121+65 L 1	821+00 L 1
1113+00 R 1	1122+35 L 1	1077+55 1
836+50 R 1	1122+60 L 1	#105 1
840+40 R 1	1122+65 R 1	1124+00 R 1
834+14 R 1	1123+05 L 1	748+00 L 1
834+80 R 1	1123+05 R 1	1116+00 R 1
835+20 R 1	1123+15 R 1	1126+00 R 1
853+32 R 1	1124+90 R 1	1117+00 R 1
862+85 R 1	1125+05 R 1	1114+00 R 1
870+05 R 1	1130+35 R 1	1129+00 L 1
880+86 R 1	1130+80 R 1	1128+00 L 1
885+08 R 1	1133+00 R 1	1164+00 L 1
884+75 1	1154+30 R 1	
894+50 R 1	1154+00 R 1	

CULVERT SUMMARY

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FH 006-1(1)	1975	5	18

STATION	Remove and Dispose of Culvert L.F.		24" Pipe Conduit L.F.	30" Pipe Conduit L.F.	36" Pipe Conduit L.F.	42" Pipe Conduit L.F.	48" Pipe Conduit L.F.	60" Pipe Conduit L.F.		Culvert Marker Posts Each		Structural Plate Pipe - Arch 12' 10" X 8' 4" L.F.	REMARKS
"L" 700+40	~~3029~~			~~A240~~						2			
"L" 705+60	~~3733~~			~~A046~~						2			
"L" 709+80	~~3837~~						~~5664~~			1			Place rock at outlet
"L" 712+10	~~3035~~		~~A654~~							2			Remove stumps at outlet
~~"L" 715+75~~			~~30~~							~~2~~			~~Ditch out~~
"L" 718+30	40		~~A850~~							1			
"L" 722+40	~~3845~~												Log crib in fill
"L" 722+58 28				50						1			
"L" 724+60 80	~~3640~~				~~A044~~					2			*Excavate* at inlet, Place rock at outlet
													See sheet no. 2
"L" 731+95	39		~~5458~~							1			
"L" 734+62	~~3734~~		~~3842~~							2			
"L" 736+34	~~3734~~		~~3844~~							2			
"L" 744+09	~~3433~~		~~A044~~							2			
"L" 747+18	30				~~3644~~					2			Excavate at inlet
~~"L" 747+36~~	~~30~~												
"L" 748+94	36		~~A046~~							2			
"L" 753+86	~~2526~~		~~3846~~							2			
"L" 758+55	~~2825~~				~~3844~~					2			Excavate at inlet
"L" 760+60	28				~~A044~~					2			
"L" 765+52	27		46		~~46~~					2			
"L" 771+97	~~2830~~			~~3642~~						2			Excavate at outlet
"L" 775+60	~~2723~~		36	42						2			Excavate at inlet and outlet
"L" 776+80	~~3635~~		~~3844~~							2			
"L" 767+57			44										
"L" 779+20	30				~~A046~~					2			
"L" 784+24	~~3036~~		~~3640~~							2			
"L" 789+35	~~2838~~				~~A042~~					2			Excavate at inlet
"L" 791+48	~~3233~~		40							2			Do not skew
"L" 795+95	~~2837~~			~~3842~~						2			Excavate at inlet
"L" 801+76	~~2830~~							~~5048~~		1			Ditch in and out
"L" 809+389	~~3635~~												Do not replace
"L" 813+24	~~3635~~		42										Do not replace
"L" 816+35	~~A233~~			44	~~A6~~					2			
"L" 818+05	~~A643~~				~~A644~~					2			
"L" 820+00										2		76	*See sheet no. 2*
"L" 824+70	36												
"L" ~~826+00~~ 825+90	28		~~A238~~							2			Excavate at outlet
"L" 828+90	~~4028~~		~~A238~~							2			
"L" 831+40	~~3435~~		~~A240~~							2			
"L" 833+50	40		40							2			
"L" 835+90	~~A037~~		~~3842~~							2			
"L" 836+50	~~A231~~						~~5658~~			2			Skew 30 degrees Lt. Ah.
"L" 840+40	~~3844~~			~~3844~~						2			
"L" 842+81	~~2870~~		~~3844~~							2			
"L" 847+75			~~A642~~							2			
"L" 852+70	~~3234~~				~~A658~~					1			
"L" 855+20	~~3233~~		~~A240~~							2			
"L" 860+80	38			~~A244~~						2			
"L" 862+70	~~3040~~		~~A038~~							2			Excavate at outlet
"L" 863+95	~~3035~~		~~A438~~							2			Excavate *at inlet*
"L" 865+~~97~~ 79	~~3431~~		~~A440~~							2			

STATION	Remove and Dispose of Culvert L.F.		24" Pipe Conduit L.F.	30" Pipe Conduit L.F.	36" Pipe Conduit L.F.	42" Pipe Conduit L.F.	48" Pipe Conduit L.F.	60" Pipe Conduit L.F.		Culvert Marker Posts Each		Structural Plate Pipe - Arch 9' 6" X 6' 5" L.F.	REMARKS
"L" ~~868+65~~ 58	~~2836~~					~~3646~~				2			
"L" 870+49	~~3640~~		~~3638~~							2			
"L" 873+64	~~2834~~		~~A038~~							2			
"L" 875+84	40			40						2			Skew 15 degrees Rt. Ah.
"L" 877+23	38		~~A440~~							1			
"L" 879+25			~~A438~~							2			
"L" 880+39	38												
"L" 881+74	~~A246~~		~~A238~~							2			
"L" 883+92	~~A043~~			~~A640~~						2			
"L" 886+34	~~A637~~			~~A640~~						2			Skew 10 degrees Lt. Ah.
"L" 887+12 04	~~A640~~					~~A240~~				2			Skew 5 degrees Lt. Ah.
"L" 890+55	~~4038~~		~~A438~~							2			
"L" 895+28	~~2838~~		~~A038~~							2			
"L" 896+30	~~3841~~		~~A038~~							2			
"L" 897+48	~~3040~~			~~A238~~						2			
"L" 900+00	~~3042~~		~~3842~~							2			
"L" 901+65	~~3648~~		38							2			
"L" 903+48	~~4038~~												
"L" 903+80			~~A236~~							2			
"L" 905+70	~~3637~~		38	~~A2~~						2			
"L" 910+02	~~3240~~			~~A238~~						2			
"L" 914+80	~~4642~~							~~A644~~		2			Construct Dike at Inlet
"L" 916+78	~~3648~~			48			~~54~~			1			
"L" 921+94	~~A635~~		43		~~46~~					2			
"L" 924+54	~~3638~~			~~A840~~						1			
"L" 929+19	~~3225~~			~~5042~~						1			
"L" 932+90			~~A236~~							2			
"L" 935+25			~~A438~~							2			
"L" 936+25	~~3640~~		~~A638~~							2			
"L" 939+79	~~3629~~			~~5440~~						1			
"L" 917+50					46								
"L" 941+43	~~5053~~			~~A838~~						1			
"L" 942+80	~~3643~~				~~5450~~					1			Skew 20 degrees Lt. Ah.
"L" 945+60	~~3836~~							~~A846~~		1			
"L" 947+64	~~A041~~			42						2			
"L" 949+89	38			~~A640~~						2			
"L" 957+88	~~3645~~							~~A850~~		1			
"L" 963+50			~~A838~~							1			
~~"L" 964+30~~	~~24~~												Remove 8" C.M.P.
"L" 967+50	38		~~A636~~							2			Excavate at inlet and outlet
"L" 970+14	~~5030~~				54					1			
"L" 974+80	~~3040~~		~~A240~~							2			
"L" 976+80	~~3642~~				50					1			
"L" 978+20	~~3637~~		38		~~46~~					2			
"L" ~~979+09 65~~	~~5025~~												Ditch to 978+20
"L" 956+50	40		46										
"L" 980+47	~~3634~~		44							2			
"L" 982+64	~~3645~~		~~A240~~							1			
"L" 983+73	~~A050~~												Ditch to 982+64
"L" 985+90	~~A033~~		~~A440~~							2			
"L" 990+00			46							2			
"L" 991+40	~~3641~~					~~A442~~				1			
"L" 994+00	~~3840~~												
"L" 995+50	~~3039~~							~~6056~~		1			Excavate at inlet
"L" 998+60	29							108		2		~~52~~	Construct Inlet Dikes & Place Rock *at Outle*
~~"L" 999+00~~	~~28~~												
													See sheet no. 2

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOT. SHEETS
ALASKA	FH 006 - 1(1)	1975	6	18

CULVERT SUMMARY

STATION	Remove and Dispose of Culvert		24" Pipe Conduit	30" Pipe Conduit	36" Pipe Conduit	42" Pipe Conduit	48" Pipe Conduit	60" Pipe Conduit		Culvert Marker Posts	Structural Plate Pipe - Arch 9' 6" X 6' 5"	Structural Plate Pipe - Arch 12' 10" X 8' 10"	REMARKS
	L.F.		L.F.	L.F.	L.F.	L.F.	L.F.	L.F.		Each	L.F.	L.F.	
"L" 1002+30	~~3637~~			~~5044~~						1			
"L" 1006+22			~~4638~~							1			
"L" 1012+~~00~~ 60				~~4048~~						1			Excavate at outlet
"L" 1015+~~40~~ 70	32				~~4042~~					1			Skew to meet side road culvert
"L" 1017+00								7650		1			
"L" 1019+00	~~4032~~			~~4640~~						2			
"L" 1027+60								7646		1			Excavate at inlet
"L" 1027+94	~~38~~			~~5060~~						1			Place rock at outlet *see sheet no. 2*
"L" ~~1033+00~~ 1031+00	~~46~~		44										
"L" 1034+20	~~7638~~					~~4642~~				1			Remove 2 Log culverts
"L" 1037+40	~~4047~~					~~5048~~				1			Excavate at inlet
"L" 1039+~~55~~ 80			~~4044~~							2			
"L" 1041+21	~~44~~		~~5238~~							1			Excavate at inlet
"L" 1043+50			~~4244~~							2			
"L" 1046+00	~~3640~~		~~4438~~							2			
"L" 1050+50	~~5045~~		~~4846~~							1			
"L" 1055+00			~~5042~~							1			
"L" 1058+60	~~3640~~			~~5038~~						1			
"L" 1063+15	~~24~~		~~3660~~							2			Located in access road Lt.
~~"L" 1063+00~~			~~40~~							2			
"L" 1064+03	~~3640~~					~~4442~~				1			*Excavate at inlet*
"L" 1065+00	~~3641~~												
"L" 1096+25			~~4844~~										
"O' " 1144+00			~~4640~~							2			
"O' " 1157+80			~~4638~~							2			
"O' " 1178+30	36		~~4638~~							2			*Excavate at outlet*
"O' " ~~1187+00~~ 1178+00			~~4648~~							2			*Excavate at outlet*
"O' " 1190+~~60~~ 85			40	~~42~~						2			*Excavate at outlet*
"L" 1181+90	~~4039~~		~~4440~~							2			
"O²" 1188+60			50							2			
"O²" 1196+60			42							2			Install in approach Rt.
~~"O²" 1196+60~~			~~42~~							~~2~~			~~Install in approach Lt.~~
~~"A" 11+60~~			~~38~~							~~2~~			~~Install in approach Lt.~~
Total	3842		2796	1110	708	318	110	398		211	52	76	

Note; Pipe Conduit minimum gage or thickness requirements are not exceeded by height of fill.

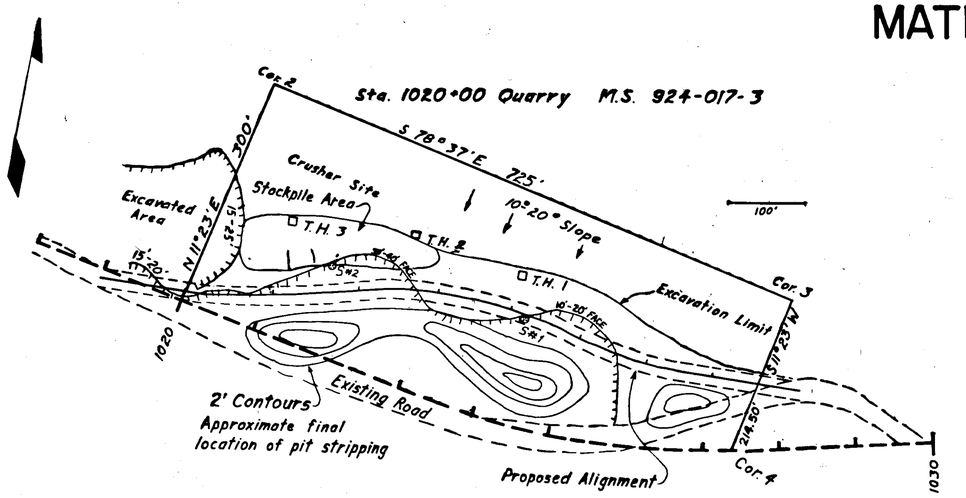
"L" 1067+75	40		36										
"L" 1069+50	43			42									
"L" 1073+31	39												
"L" 1073+76			40										
"L" 1074+95	46			44									
"L" 1083+92	20				46								
"L" 1088+68	40		40										
"L" 1091+46	40		38										
"L" 1099+30	36												
"L" 1101+58	35						48						
"L" 1105+91	35			38									
"L" 1111+40			54										
"L" 1114+40	20				66								
"L" 1117+90			24										
"L" 1122+22	36			46									
"O" 1155+00	40		40										
"O" 1161+30	40										52		
"O" 1172+70	38							50					
"O" 1184+00					40"								
"O" 1194+85	68							72					
"L" 1178+00	35		40										
"O²" 1184+30	43		44										

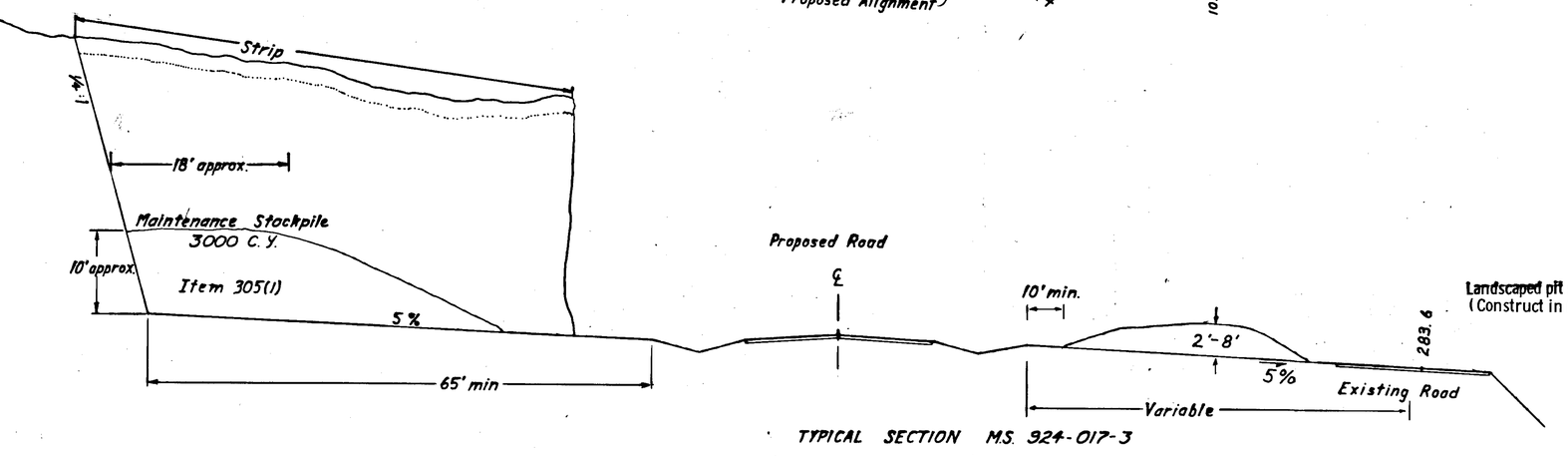
ESTIMATE OF QUANTITIES

Item No.	Item	Unit	Quantity
1	Furnishing and Maintaining Engineering Facilities	Lump Sum	All Required
2A	Meals	Each	5295
2B	Lodging	Each	1760
2C	Pickup	Day	*566*
2D	Crew Cab	Day	191
110(1)	Mobilization	Lump Sum	All Required
111(1)	Temporary Erosion and Pollution Control	Cont. Sum	All Required
112(1)	Training Program in accordance with FHWA Order, Interim 7-2(2)	Cont. Sum	All Required
113(1)	Flagging	Man Hrs	64
201(4A)	Hand Clearing	Acre	5
201(6A)	Select Tree Removal	Each	10
201(6B)	Select Stump Removal	Each	*66*
203 (3)	*Unclassified Excavation*	*C.Y.*	*35,410*
202(4)	Removal and Disposal of Culvert Pipe	Lin. Foot	3842
302(3)	Processing for Subgrade Modification	Station	546
304(2)	Subbase Grading "D"	Cubic Yard	20,850
305(1)	Stockpiled Material, Section 304(2), Grading "D"	Cubic Yard	3,000
506(1)	Untreated Timber	MBM	2.5
507(2)	Bridge Railing	Lump Sum	All Required
602(2A)	Structural Plate Pipe - Arch 9' 6" X 6' 5" (State furnished)	Lin. Foot	52
602(2B)	Structural Plate Pipe - Arch 12' 10" X 8' 4"	Lin. Foot	76
603(22G)	24" Pipe Conduit	Lin. Foot	*2,796*
603(22H)	30" Pipe Conduit	Lin. Foot	1,110
603(22I)	36" Pipe Conduit	Lin. Foot	708
603(22J)	42" Pipe Conduit	Lin. Foot	318
603(22K)	48" Pipe Conduit	Lin. Foot	110
603(22M)	60" Pipe Conduit	Lin. Foot	398
606(1)	Beam Type Guardrail, Type I Post	Lin. Foot	250
611(1)	Rip Rap	Cubic Yard	*687*
613(2)	Culvert Marker Posts	Each	211
615(1)	Standard Signs	Square Foot	*247.5*
618(1)	Seeding	1000 Sq. Ft.	*630*

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FH 006 - 1(1)	1975	7	18

MATERIALS SITE LOCATION
STATE FURNISHED





TYPICAL SECTION M.S. 924-017-3

Landscaped pit stripping, seed and fertilize.
(Construct in locations staked by the engineer)

STATE	PROJECT DESIGNATION	YEAR	SHEET No.	TOTAL SHEETS
ALASKA	FH-006-1(1)	1975	8	18

"L" 724+00 to 725+00 Rt.
Embankment widening

P.I. "L" 726+88.15
Δ = 28°01' Lt.

PT. "L" 728+59.68 BK.
POT. "L" 728+46.60 AH.

"L" 731+00 to 732+00 Rt.
Embankment widening

"L" 731+95 Install 24"X 54' Pipe Conduit
Remove 39' Log culvert
58

"L" 732+25 B.M. # 59
Elev. 227.55
125' Rt. of ℄

"L" 734+62 Install 24"X 38' Pipe Conduit
Remove 34' Log culvert
42

"L" 736+34 Install 24"X 38' Pipe
Remove 34 Log culvert
44

MATCH LINE
"L" 739+00

"L" 723+00 to 724+00 Lt.+Rt.

724+60 Install 36"X 40' Pipe Conduit
Remove 36' Log
40
80

PC. "L" 725+09.47

"L" 722+40 Remove 38' Log culvert
"L" 722+50 Install 30"X 50' Pipe Conduit
45
28

"L" 722+00 to 723+00 Rt.
Embankment widening

"L" 719+00 to 722+00 Rt.

"L" 719+30 Install 24"X 48' Pipe Conduit and Remove 40' Log culvert
50

"L" 719+75 B.M. # 58 Elev. 250.51
150' Rt. of ℄

"L" 712+60 to 722+00 Lt. Ditch and
widen for sight distance

PT. "L" 717+38.55

"L" 715+75 Install 24"X 30' Pipe Conduit
Deleted

P.I. "L" 715+32.70
Δ = 36°16' Lt.

"L" 712+10 Install 24"X 54' Pipe Conduit
Remove 38' Log culvert
54

PC. "L" 712+36.33

"L" 712+60 to 716+00 Rt.

"L" 712+00 to 712+50 Rt.
Embankment widening

"L" 709+00 to 710+00 Rt.
Embankment widening

"L" 708+30 to 709+25 Rt.

MATCH LINE
"L" 709+00

"L" 708+80 Install 48"X 54" Pipe
Conduit and Remove 38' Log culvert
64

"L" 705+60 Install 30"X 48" Pipe Conduit
Remove 37' Log culvert
46

"L" 705+40 B.M. # 57
Elev 305.84
170' Lt. of ℄

"L" 704+75 Rt. Construct Type I
approach road

"L" 702+00 to 704+30 Rt.

PT. "L" 704+23.44

P.I. "L" 702+35.38
Δ = 15°08' Rt.

"L" 700+40 Install 30"X 42" Pipe Conduit
Remove 30' Log culvert
42

PC. "L" 700+45.11

"L" 699+00 Obliterate approach
road right

"L" 697+53.38

P.I. "L" 696+27.13
Δ = 39°30' Lt.

291.73

S 18°44' E

"L" 695+00 to 697+00 Lt.
Widen for sight distance

"L" 694+90.05

PC. "L" 694+00.00

STA. "L" 694+00.00
BEGINNING OF PROJECT

"L" 694+00 B.M. # 56
Elev 351.38
125' Lt. of ℄

"L" 708+30 to 709+25 Rt.

MATCH LINE
"L" 709+00

MP 20

Denotes Excavation to Template or as staked by the Engineer

Denotes Embankment widening

NOTE; The heavy centerline shown on the plans is the control line. The existing roadway is to be improved. Pay quantities based on the length of roadway will be calculated along the length of the existing roadway.

MATCH LINE
"L" 767+00

767+57 Install 24" x 44' Pipe Conduit

P.C. "L" 768+40.88

"L" 769+00 to 771+97 Lt.

P.I. "L" 771+29.05
Δ = 22°45' Rt.

"L" 771+97 Remove 30' 28' Log Culvert Install 30" X 36' Pipe 42' Conduit

"L" 773+00 to 777+00 Rt.

P.T. "L" 774+09.63 BK
= P.O.T. "L" 774+88.15 AH

"L" 775+60 Install 30" X 42' Pipe Conduit
Remove 27' Log culvert 23'

"L" 776+80 Install 24" X 44' Pipe Conduit
Remove 38' Log culvert 35

N 82°38' E ~ 512.5'

"L" 777+50 B.M. # 63
Elev. 176.29
110' Rt. of ℄

"L" 779+00 to 780+00 Rt.
Embankment widening

"L" 779+20 Remove 30' Log culvert Install 36" X 40' Pipe Conduit 46'

P.T. "L" 780+00.66

P.I. "L" 782+04.10
Δ = 16°10' Lt.

"L" 779+20 to 782+00 Lt.
Ditch to drain

"L" 782+00 to 784+00 Lt.
Widen for sight distance

P.T. "L" 784+04.83

"L" 784+20 to 785+00 Lt.
Ditch to drain

"L" 784+24 Install 24" X 40' Pipe Conduit
Remove 30' Log culvert 36'

N 68°28' E ~ 529.05

P.C. "L" 787+33.86

"L" 786+00 to 798+00 Rt.

P.I. "L" 789+22.44
Δ = 15°00' Rt.

"L" 789+35 Remove 38' 28' Log culvert Install 36" X 40' 42' Pipe Conduit

"L" 789+00 B.M. # 64
Elev. 181.79
140' Rt. of ℄

P.T. "L" 791+08.86

"L" 791+48 Install 24" X 40' Pipe Conduit
Remove 32' Log culvert 33'

N 11°28' E ~ 861.9

"L" 795+95 Install 30" X 42' Pipe Conduit
Remove 28' 38' Log culvert 37'

M.P. 22

MATCH LINE
"L" 797+00

MATCH LINE
"L" 739+00

"L" 740+00 to 742+00 Lt. widen for sight distance

Δ = 0°30' Lt.

"L" 741+01.70

M.P. 21

"L" 753+50
B.M. # 60
Elev. 229.45
125' Lt of ℄

N 81°37' E ~ 1314'

"L" 744+09 Install 24" X 44' 40' Pipe Conduit
Remove 34' 33' Log culvert

"L" 746+00 to 747+36 Rt. Ditch

"L" 747+18 Install 36" X 44' 36' Pipe Conduit

"L" 747+36 Remove 30' 18' Log Culvert

"L" 748+94 Install 24" X 46' 40' Pipe Conduit
Remove 36' Log culvert

"L" 753+86 Install 24" X 44' 38' Pipe Conduit
Remove 25' 26' Log culvert

P.C. "L" 754+16.51

"L" 754+50
B.M. # 61
Elev. 188.83
150' Rt. of ℄

P.I. "L" 755+98.82
Δ = 21°41' Lt.

Creek

P.T. "L" 757+78.73

"L" 757+25 to 758+55 Lt. Install Riprap
See sheet no. 2.

"L" 758+55 Install 36" X 44' 38' Pipe Conduit
Remove 28' 25' Log culvert

"L" 759+35 to 760+00 Rt. Ditch

"L" 760+60 Install 36" X 44' 40' Pipe Conduit
Remove 28' Log culvert

N 11°28' E ~ 1062.15

"L" 762+00 to 764+00 Lt.
Widen for sight distance

"L" 765+52 Install 24" 36" X 46' Pipe Conduit
Remove 27' Log Culvert

"L" 764+75 B.M. # 62
Elev. 181.05
150' Rt. of ℄

MATCH LINE
"L" 767+00

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FH 006-1(1)	1975	9	18

MATCH LINE
"L" 829+00

"L" 831+40 Install 24" X 42' Pipe Conduit
Remove 34' Log culvert
35'

"L" 833+50 Install 24" X 40' Pipe Conduit
Remove 40' Log culvert

"L" 833+00 B.M. #68
Elev. 231.84
160' Lt. of ℄

P.C. "L" 834+01.75

"L" 836+00 to 837+00 Rt.
Embankment widening

P.I. "L" 836+05.35
Δ = 46°26'R.

"L" 842+81 Install 24" X 38' Pipe Conduit
Remove 28' Log culvert
70'

P.T. "L" 837+88.69

"L" 837+00 to 839+50 Lt.

"L" 836+50 Install 42" X 58' Pipe Conduit
Remove 42' Log culvert
31'

"L" 835+90 Install 24" X 42' Pipe Conduit
Remove 40' Log culvert
37'

S 51°45'E ~ 151.45

"L" 840+40 Install 30" X 38' 44' Pipe Conduit
Remove 38' Log culvert

"L" 843+00 to 844+50 Lt.
Widen for sight distance

P.C. "L" 842+78.79

P.I. "L" 845+21.11
Δ = 50°00' Lt.

"L" 844+00
B.M. #69
Elev. 236.22
150' Lt. of ℄

P.T. "L" 846+96.57

"L" 847+75 Install 24" X 42' Pipe Conduit

M.P. 23

"L" 847+00 to 852+00 Lt.

"L" 850+00 to 852+00 Rt.

"L" 852+00 to 853+00 Rt.
Embankment widening

"L" 852+70 Install 36" X 46' 58' Pipe Conduit
Remove 32' Log culvert
34'

N 48°01'E ~ 1882.83

"L" 853+50 to 855+00 Lt.

"L" 853+50 to 855+00 Rt.

"L" 857+00 to 857+75 Lt.

"L" 855+20 Install 24" X 42' 40' Pipe Conduit
Remove 32' Log culvert
33'

"L" 855+20 to
857+00 Rt.

"L" 855+00 B.M. #70
Elev. 202.27
150' Rt. of ℄

"L" 858+00 to 862+70 Lt.

"L" 860+80 Install 30" X 42' 44' Pipe
Conduit and Remove 38' Log culvert

MATCH LINE "L" 862+00

"L" 801+75 B.M. #65
Elev. 210.30
175' Lt. of ℄

"L" 810+50 B.M. #66
Elev. 182.66
175' Rt. of ℄

"L" 820+00 Remove Log Bridge.
Install 75'± - 12'10" X 8'4"
Structural Plate Pipe - Arch.
Construct Dikes at Inlet and Outlet
with Rip Rap. See sheet no. 2.

"L" 821+00 +25 B.M. #67
Elev. 174.62
200' Rt. of ℄

MATCH LINE
"L" 798+00

"L" 798+00 to 804+00 Lt.

P.C. "L" 799+70.05

P.I. "L" 801+14.90
Δ = 17°15' Rt.

"L" 800+00 to 803+00 Lt.
Raise grade for 60"
Pipe Conduit to provide
minimum cover.

"L" 801+76 Install 60" X 50' 48' Pipe Conduit
Remove 28' Log culvert
30'

P.T. "L" 802+57.55

"L" 803+00 to 804+00 Rt.

233.25

P.C. "L" 805+10.80

P.I. "L" 806+93.50
Δ = 10°55' Lt.
D = 3°
T = 182.50
L = 363.89

P.T. "L" 808+74.69

N 87°48'E ~ 238.70

"L" 809+39 Remove 36' Log Culvert
35'

P.C. "L" 811+13.39

P.I. "L" 813+39.27
Δ = 9°01' Rt.

"L" 813+24 Remove 36' Log Culvert
35'
Install 24" X 42' Pipe conduit

P.T. "L" 815+64.23

S 83°11'E ~ 455.84

"L" 816+35 Install 36" X 46' Pipe Conduit
Remove 42' Log culvert
33'
30" 44'

"L" 818+05 Install 36" X 46' Pipe Conduit
Remove 46' Log culvert
43'

P.C. "L" 820+30.07

P.I. "L" 822+18.65
Δ = 15°00' Lt.

P.T. "L" 824+05.07

"L" 824+70 Remove 36' Log
Culvert

N 81°49'E ~ 996.68

"L" 825+90
"L" 826+00 Install 24" X 42' 44'
Pipe Conduit

"L" 826+00 to 828+00 Lt.
Ditch to drain

"L" 828+90 Install 24" X 42' 38' Pipe Conduit
Remove 48' Log culvert
28'

MATCH LINE
"L" 829+00

Hydrological Data "L" 820+00
Design Area - 275 Acres
Design Freq. - 50 Year
Design Discharge - 432 c.f.s.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FH 006 - 1 (1)	1975	10	18

STATE	PROJECT DESIGNATION	YEAR	SHEET No.	TOTAL SHEETS
ALASKA	FH 006 - 1(1)	1975	11	18

"L" 909+50 to 910+50 Rt.
Embankment widening

"L" 910+00 to 912+00 Lt.

"L" 913+00 B.M.# 75
Elev. 261.58
200' Lt. of ℄

"L" 914+70 Lt.
Construct Dike

"L" 916+00 to 917+00 Rt.
Embankment widening

"L" 921+00 to 925+00 Rt.
Embankment widening

"L" 902+00
B.M.# 74
Elev. 264.46
200' Lt. of ℄

"L" 903+00 to 904+00 Rt.
Embankment widening

"L" 895+00 to 898+00 Rt.
Embankment widening

"L" 879+00 to 880+00 Rt.
Embankment widening

"L" 879+50 B.M.# 72
Elev. 248.95
200 Lt. of ℄

"L" 867+00 B.M.# 71
Elev. 238.97
130' Lt. of ℄

"L" 862+00
MATCH LINE

"L" 842+00
MATCH LINE

"L" 925+00
MATCH LINE

"L" 887+50 to 889+00 Lt.

"L" 873+70 to 874+75 Lt.

"L" 907+00 to 910+00 Lt.
Excavate for sight distance

"L" 858+00 to 862+70 Lt.
Ditch to drain

"L" 862+70 Instal 24" X 40' Pipe Conduit. Remove 38' Log culvert.

"L" 863+95 Instal 24" X 44' 38' Pipe Conduit. Remove 36' Log culvert.

"L" 865+79 Instal 24" X 44' 40' Pipe Conduit. Remove 34' Log culvert.

"L" 868+68 Instal 42" X 36' 58' Pipe Conduit. Remove 28' Log culvert.

"L" 869+04.68 PT

P.I. "L" 867+43.63
Δ = 13°31' Rt.

"L" 870+50 to 873+00 Lt.

"L" 870+49 Instal 24" X 38' Pipe Conduit. Remove 36' Log culvert.

"L" 873+64 Instal 24" X 48' 38' Pipe Conduit. Remove 28' Log culvert.

"L" 873+75.26 PC

P.I. "L" 874+47.62
Δ = 52°20' Lt.

"L" 874+66.27 PT

"L" 878+34.60 PC

P.I. "L" 880+01.18
Δ = 13°16' Rt.

"L" 880+39 Remove 39' Log culvert. Instal 24" X 44' 39' Pipe Conduit.

"L" 879+25 Instal 24" X 44' 40' Pipe Conduit. Remove 39' Log culvert.

"L" 877+23 Instal 24" X 40' Pipe Conduit. Remove 40' Log culvert.

"L" 875+84 Instal 30" X 40' Pipe Conduit. Remove 40' Log culvert.

"L" 881+74 Instal 24" X 42' 38' Pipe Conduit. Remove 42' Log culvert.

"L" 883+92 Instal 30" X 46' 40' Pipe Conduit. Remove 40' Log culvert.

"L" 883+13.03 PC

P.I. "L" 887+47.62
Δ = 52°20' Lt.

"L" 855+75 Lt. Excavate Rock point

"L" 887+42 Install 42" X 42' 40' 04 Pipe Conduit. Remove 46' Log culvert.

"L" 889+49.14 PT

"L" 889+55 Instal 24" X 44' Pipe Conduit. Remove 40' Log culvert. 38'

"L" 842+00
MATCH LINE

"L" 924+54 Install 30" X 48" Pipe Conduit. Remove 36' Log culvert. 40'

"L" 924+14.12 PT

"L" 921+94 Instal 36" X 46' 24" X 40' Pipe Conduit. Remove 46' Log culvert. 37'

"L" 917+50 Instal 36" X 46' Pipe conduit

"L" 916+78 Instal 42" X 54" 30" X 48' Pipe Conduit. Remove 34' Log culvert. 42'

"L" 914+80 Instal 60" X 44' 44' Pipe Conduit. Remove 46' Log culvert. 42'

"L" 910+02 Instal 30" X 42" Pipe Conduit. Remove 32' Log culvert. 40'

"L" 909+57.57 PT

P.I. "L" 907+80.30
Δ = 7°06' Lt.

"L" 906+02.57 PC

"L" 903+80 Instal 24" X 42" Pipe Conduit. Remove 40' Log culvert. 36'

"L" 903+48 Remove 40' Log culvert. Instal 24" X 38' Pipe Conduit. 38'

"L" 901+65 Instal 24" X 38' Pipe Conduit. Remove 34' Log culvert. 28'

"L" 900+00 Instal 24" X 38' 42' Pipe Conduit. Remove 36' Log culvert. 42'

M.P. 24

"L" 897+48 Instal 30" X 42' 38' Pipe Conduit. Remove 40' Log culvert. 38'

"L" 896+30 Instal 24" X 40' 38' Pipe Conduit. Remove 38' Log culvert. 41'

"L" 896+39.34 PT

P.I. "L" 895+28
Δ = 37°10' Rt.

"L" 895+10.92 PC

Remove 28' Log culvert. Install 24" X 48' 38' Pipe Conduit.

"L" 905+70 Instal 30" X 42" 24" X 38' Pipe Conduit. Remove 36' Log culvert. 37'

P.I. "L" 920+63.44
Δ = 20°55' Rt.

"L" 925+00

"L" 925+14.12 PT

"L" 926+26.27 PC

P.I. "L" 929+20.00
Δ = 52°20' Lt.

"L" 929+75 Lt. Excavate Rock point

"L" 930+13.03 PT

"L" 930+49.14 PC

"L" 930+55 Instal 24" X 44' Pipe Conduit. Remove 40' Log culvert. 38'

"L" 942+00
MATCH LINE

"L" 930+50 to 942+00 Lt.

"L" 942+00 to 943+00 Lt.
Excavate for sight distance

"L" 943+00 to 944+00 Lt.
Excavate for sight distance

"L" 944+00 to 945+00 Lt.
Excavate for sight distance

"L" 945+00 to 946+00 Lt.
Excavate for sight distance

"L"

MATCH LINE
"L" 957+00

"L" 957+00 to 958+00 Rt.
Embankment widening

"L" 958+00 B.M. # 79
Elev. 282.65
220' Lt. of ℄

N70°33'E ~ 613.93

"L" 957+88 Install 60" X ~~48'~~ 50' Pipe Conduit
Remove ~~36'~~ 45' Log culvert

"L" 960+00 to 963+00 Lt. Widen for sight distance

P.C. "L" 962+00.30

"L" 963+50 to 965+00 Lt.

"L" 963+50 Install 24" X ~~48'~~ 38' Pipe Conduit

P.I. "L" 963+48.73
Δ = 23°25' Lt.

P.T. "L" 964+93.01

"L" 964+30 Remove 8" X 24' Pipe Conduit

N41°28'E

"L" 967+50 Install 24" X ~~48'~~ 36' Pipe Conduit
Remove 38' Log culvert

621.73

"L" 970+00 to 971+00 Rt.
Embankment widening

"L" 969+00 B.M. # 80
Elev. 290.16
150' Lt. of ℄

"L" 970+14 Install 36" X 54' Pipe Conduit
Remove ~~50'~~ 30' Log culvert

P.C. "L" 971+20.14

"L" 971+00 to 974+80 Lt.
Widen for sight distance

P.I. "L" 972+13.05
Δ = 6°21' Lt.

P.T. "L" 974+37.64

"L" 974+00 to 975+00 Rt.
Embankment widening

"L" 974+80 Install 24" X 42' Pipe Conduit
Remove ~~30'~~ 40' Log culvert

N41°07'E ~ 834.87

"L" 976+00 to 977+00 Rt.
Embankment widening

"L" 976+50 to 981+00 Lt.

"L" 976+80 Install 36" X 50' Pipe Conduit
Remove ~~36'~~ 42' Log culvert

"L" 978+20 Install ~~36" X 48'~~ 24" X 38' Pipe Conduit
Remove ~~36'~~ 37' Log culvert

"L" 979+09 Remove ~~50'~~ 65' Log Culvert

"L" 980+47 Install 24" X 44' Pipe Conduit
Remove ~~36'~~ 25' Log culvert

"L" 982+50 to 983+75 Lt.

P.C. "L" 982+72.51

"L" 982+64 Install 24" X 42' Pipe Conduit
Remove ~~36'~~ 45' Log culvert

P.I. "L" 984+07.41
Δ = 21°20' Rt.

"L" 983+73 Remove ~~48'~~ 50' Log Culvert

P.T. "L" 985+39.18

"L" 985+00 to 989+00 Lt. Ditch to drain

"L" 985+90 Install 24" X 44' Pipe Conduit
Remove ~~40'~~ 33' Log culvert

"L" 988+00 MATCH LINE

MATCH LINE
"L" 925+00

N70°22'E ~ 979.47

"L" 927+30 Rt.
Construct approach

"L" 929+00 to 930+00 Rt.
Embankment widening

"L" 929+19 Install 30" X ~~50'~~ 42' Pipe Conduit
Remove 25' ~~32'~~ Log culvert

P.C. "L" 929+93.59

"L" 929+00 to 933+00 Lt.
Excavate for
sight distance

P.I. "L" 931+29.78
Δ = 21°32' Lt.

P.T. "L" 932+62.76

"L" 935+25 Install 24" X 44' Pipe Conduit

"L" 932+90 Install 24" X ~~42'~~ 36' Pipe Conduit

N 88°01' E

"L" 935+00 to 936+00 Rt.
Embankment widening

"L" 935+25 to 937+00 Lt.

"L" 936+25 Install 24" X ~~46'~~ 38' Pipe Conduit
Remove ~~36'~~ 40' Log culvert

"L" 939+79 Install 30" X 54' Pipe Conduit
Remove ~~36'~~ 29' Log culvert

"L" 936+80
B.M. # 77
Elev. 280.39
170' Lt. of ℄

"L" 939+00 to 940+00 Rt.
Embankment widening

P.C. "L" 939+84.98

P.I. "L" 941+40.80
Δ = 12°25' Rt.

"L" 941+00 to 943+00 Rt.
Embankment widening

"L" 941+43 Install 30" X ~~48'~~ 38' Pipe Conduit
Remove ~~50'~~ 53' Log culvert

P.T. "L" 942+95.40

"L" 942+80 Install ~~36" X 48'~~ 36" X 50' Pipe Conduit
Remove ~~36'~~ 43' Log culvert

S 79°34'E ~ 921.59

"L" 945+00 to 946+00 Rt.
Embankment widening

"L" 945+60 Install 60" X ~~48'~~ 46' Pipe Conduit
Remove ~~36'~~ 36' Log culvert

"L" 947+00 to 948+00 Rt.
Embankment widening

"L" 947+64 Install 30" X 42' Pipe Conduit
Remove ~~40'~~ 41' Log culvert

"L" 949+00 Lt.
Excavate
rock point

"L" 949+00 to 950+50 Rt.
Embankment widening

"L" 948+00
B.M. # 78
Elev. 276.54
150' Rt of ℄

M.P. 25

"L" 949+89 Install 30" X ~~48'~~ 40' Pipe Conduit
Remove 38' Log culvert

P.C. "L" 952+16.99

P.I. "L" 954+05.88
Δ = 29°33' Lt.

P.T. "L" 955+86.37

"L" 956+50 Remove 40' culvert
Install 24" X 46' Pipe Conduit

MATCH LINE
"L" 957+00

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FH 006 - 1(1)	1975	12	18

STATE	PROJECT DESIGNATION	YEAR	SHEET No.	TOTAL SHEETS
ALASKA	FH 006 - 1(1)	1975	13	18

"L" 1019+00 MATCH LINE

60' Install 60" x 76' pipe conduit

"L" 1017+00 to 1018+00 Rt. Embankment widening

Remove 48' Log culvert

Install 30" x 40' pipe conduit

"L" 1019+00

P.T. "L" 1017+82.83

P.I. "L" 1016+61.53
Δ = 37°50' Rt.

P.C. "L" 1015+30.63

"L" 1015+75 Rt. Construct approach

Year ground drinking water source - DO NOT DISTURB

"L" 1012+00 B.M. # 84
Elev 303.87
100' Lt. of ℄

Remove 32' Log culvert

Install 36" x 48' pipe conduit

42'

"L" 1015+17

"L" 1012+68 60' Install 30" x 48' pipe conduit

28'

Sta. "L" 998+60
Hydrological Data
Design Area 109 Acres
Design Freq. 50 Years
Design Discharge 231 c.f.s.

N63°33'E ~ 1204.93

"L" 1006+22 Install 24" x 46' pipe conduit

38'

M.P. 26

"L" 1001+50 B.M. # 83
Elev 324.57
200' Lt of ℄

P.I. "L" 1001+71.35
Δ = 25°06' Lt.

P.T. "L" 1003+25.70

"L" 1002+00 to 1003+00 Lt. Widen for sight distance

P.C. "L" 1000+11.92

"L" 998+00 Remove 28' Log culvert

"L" 1002+30 Install 30" x 50' pipe conduit

37'

Remove 36' Log culvert

"L" 998+60 to 999+00 Rt. Embankment widening

Remove 39' Log culvert

Install 60" x 66' pipe conduit

"L" 995+50

"L" 998+60 Construct Dikes with Rip Rap. See sheet no. 2.

N88°39'E ~ 199.65

2 - 60" x 54' Pipe Culvert @ 22½° x 66' Pipe

Skewback Plate

"L" 998+60 Install

Remove 2 - 60" x 54' Pipe Culvert

"L" 995+00 Remove 36' Log culvert

"L" 994+00

P.T. "L" 995+18.27

P.I. "L" 993+83.60
Δ = 26°12' Rt.

"L" 992+00 to 996+00 Rt. Embankment widening

P.C. "L" 992+50.27

"L" 991+00 B.M. # 82
Elev. 271.75
150' Rt. of ℄

41'

Remove 36' Log culvert

"L" 991+40 Install 42" x 46' pipe conduit

42'

"L" 990+00 Install 24" x 46' pipe conduit

711.09

"L" 989+00 to 991+00 Lt. Ditch to drain

N62°27'E

"L" 988+00 MATCH LINE

"L" 1020+00 to 1028+00 Lt.

"L" 1019+00 MATCH LINE

S78°37'E ~ 547.13

1020

As built
Proposed realignment

MS 924-017-3
Proposed Crusher Site

"L" 1022+00 B.M. # 85
Elev. 277.17
150' Rt. of ℄

P.C. "L" 1023+29.98

P.T. "L" 1025+95.18
Δ = 25°24' Lt.

"L" 1027+00 to 1029+00 Rt. Embankment widening

PT "L" 1027+53.31

"L" 1027+60 Install 60" x 46' pipe conduit

60' x 26' Remove 38' Log culvert

60' Install 30" x 50' pipe conduit

"L" 1027+44

N75°59'E ~ 627.36

1020

1031+00 Install 24" x 54' pipe conduit

"L" 1033+00 Remove 46' Log culvert

"L" 1031+00 B.M. # 86
Elev 303.35
150' Rt. of ℄

"L" 1037+40 Install 42" x 58' pipe conduit

Remove 42' Log culvert

"L" 1038+85 60" Install 24" x 44' Pipe Conduit

"L" 1041+12 Install 24" x 44' pipe conduit

Remove 44' Log culvert

"L" 1041+19.93

P.I. "L" 1043+51.72
Δ = 62°30' Lt.

"L" 1043+50 Install 24" x 44' Pipe Conduit

44'

"L" 1046+00 Install 24" x 44' Pipe Conduit

Remove 36' Log culvert

40'

MATCH LINE "L" 1048+00

"L" 1044+50 B.M. # 87
Elev 286.61
200' Rt. of ℄

"L" 1043+50 to 1050+50 Lt. Excavate for sight distance

P.T. "L" 1045+36.60

"L" 1037+00 to 1038+00 Rt. Embankment widening

"L" 1035+00 to 1042+00 Lt. Widen

42' Pipe Conduit

"L" 1034+00 Remove 38' Log Culverts

Install 42" x 46' Pipe Conduit

P.I. "L" 1035+11.32
Δ = 37°46' Rt.

PT "L" 1036+32.43

48" x 48' pipe conduit

Remove 42' Log culvert

"L" 1034+00 to 1035+00 Rt. Embankment widening

P.C. "L" 1033+80.67

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FH 006 - 1(1)	1975	14	18

"L" 1063+00 Lt. Construct approach and Install 24"x36" Pipe Conduit. Remove 24' Log culvert.

"L" 1063+15 Install 24"x60' Pipe Conduit

"L" 1065+03 Install 42"x48' Pipe Conduit

"L" 1065+00 Remove 36' Log culvert 40' 42" Pipe Conduit 40' 36' Log Culvert

"L" 1067+75 Install 24"x48' Pipe Conduit

"L" 1069+00 to 1069+50 Lt

"L" 1069+50 Install 24"x36' Pipe Conduit Remove 40' culvert

"L" 1071+00 to 1076+00 Lt

"L" 1073+30 Remove 30"x42" pipe conduit Remove 45' culvert

"L" 1073+76 Install 24"x40' Remove 39' culvert

"L" 1074+95 Install 24"x40' Remove 46' culvert 30"x48' Pipe Conduit

"L" 1077+00

"L" 1077+00 B.M. #90
Elev. 218.53
175' Rt. of ℄

P.I. "L" 1076+17.07
Δ = 38°13'Lt.

PT "L" 1077+70.13

MATCH LINE "L" 1079+00

1080

PC "L" 1074+91.66

217.88

PT "L" 1072+33.78

P.I. "L" 1067+34.97
Δ = 30°41' Rt.

BACK Remove and Replace Culverts

AHEAD Repair existing and add Culverts

1070

PC "L" 1062+11.00

"L" 1065+50 B.M. #89
Elev. 258.90
50'Lt. of ℄

"L" 1059+35 to 1063+00 Lt

1060

"L" 1058+60 Install 30"x36" Pipe Conduit Remove 38' Log culvert 40'

"L" 1055+00 to 1059+35Lt
Excavate for widening of roadway

"L" 1054+00 B.M. #88
Elev. 266.66
150'Rt. of ℄

N 51°15'E ~ 1674.10

"L" 1050+50 Install 24"x48' Pipe Conduit Remove 50' Log culvert

"L" 1048+00

MATCH LINE

"L" 1043+50 to 1050+50 Lt
Excavate for sight distance

M.P. 27

1050

1040

"L" 1100+00 to 1117+00 Lt

M.P. 28

"L" 1101+58 Install 48"x48' Pipe Conduit Remove 35' culvert

"L" 1099+50 B.M. #92
Elev. 166.16
100' Rt. of ℄

N 7°15'E ~ 921.49

Remove 36' culvert

"L" 1098+00 to 1099+00 Lt

"L" 1096+25 Install 24"x48' Pipe Conduit

PT "L" 1095+74.62

1090

"L" 1091+00 to 1095+00 Lt

"L" 1091+46 Install 24"x36' Pipe conduit Remove 40' log culvert

P.I. "L" 1091+35.01
Δ = 36°27' Lt.

1088+69 Install 24"x40' Pipe Conduit Remove 40' culvert

1088

"L" 1088+50
B.M. #91
Elev. 206.70
150'Rt. of ℄

"L" 1087+50

PC "L" 1086+63.37

"L" 1086+00 to 1089+00 Lt.
Widen for sight distance

"L" 1083+92 Install 36"x24' Pipe Conduit Remove 20' culvert

"L" 1084+56.00 Bk.
"L" 1084+51.00 Ah.

"L" 1080+00 to 1085+00 Lt
Widen for sight distance

N 43°43'E ~ 696.24

"L" 1083+50 to 1084+50 Rt.
Embankment widening

1080

MATCH LINE "L" 1079+00

"L" 1104+00 B.M. #93
Elev 123.23
400' Rt. of ℄

1110

PT "L" 1108+98.44

P.I. "L" 1106+99.37
Δ = 20°07' Rt.

PC "L" 1104+96.11

"L" 1105+91 Install 30"x36' Remove 35' culvert

U.S. Survey No. 3150

"L" 1100+00

"L" 1111+00

MATCH LINE

STATE	PROJECT DESIGNATION	YEAR	SHEET No.	TOTAL SHEETS
ALASKA	FH 006 - 1(1)	1975	15	18

"0" 1148+50 MATCH LINE

Install 24" X 46' Pipe Conduit "0" 1144+00

40'

W13-1

L=62

1140

MAYBESO CREEK

N46°00'E ~ 1008.56

"0" 1140+62 to 1141+37
Lt. and Rt.
Install 125 L.F. Beam
Type Guardrail

"0" 1139+25 to 1140+00 Lt. and Rt.
Install 125 L.F. Beam
Type Guardrail

"0" 1138+60 Lt.
Construct approach

"0" 1138+50 to 1139+50 Rt. Clear and grade for sight distance

"0" 1133+00 B.M. # 95
Elev. 65.38
5' Rt. of ℄

PT "L" 1134+30.11

Δ = N°37'Rt.
"L" 1131+11.17

1130

1131

PC "L" 1129+64.69

Install 60" X 50' Pipe conduit
Remove 38' culvert "0" 1172+70

Maybeso Road
← Closed

W13-1

1170

MATCH LINE
"0" 1174+00

"0" 1161+30 Lt. + Rt.
~~Repair Log entrance~~
and Install Riprap

Harris River Road

Install 6'-6" x 6'-3" SPA x 52'
Remove 40' culvert "0" 1161+30

1160

"0" 1157+80 Install 24" x 48' Pipe Conduit 38'

"0" 1155+00 Install 24" x 40' Pipe conduit
Remove 40' culvert

M.P. 29

1150

"0" 1158+24 Rt.
Construct approach

Creek

PC "L" 1149+38.67

MATCH LINE "0" 1148+50

Install 60" x 52' C.M.P. Pipe conduit of existing 60" Install Riprap to each end

"L" 1121+01

OUTHOUSE CREEK

"L" 1122+00 B.M. # 94
Elev. 26.45
50' Rt. of ℄

1122+22 Install 30" x 46' Pipe Remove 36' culvert

1122+12.12

Sta. "L" 1124+00 Bk. =
Sta. "0" 1124+00 Ahd

"L" 1118+00 to 1120+00 Rt.

S26°11'E ~ 913.08

Cor. 1

"L" 1118+21

1120

1117+90 Install 24" x 24' Pipe Conduit

"L" 1117+90 Rt. + Lt.
Construct approach

Sta. 1+00

N27°23'E ~ 888.25

U.S. Survey No. 1527 B
Hollis Millsite

1114+40 Install 36" x ℄℄. Pipe Cond.
Remove 20' culvert

W13-1

"L" 1099+00 to 1117+00 Lt.

"L" 1111+84 40° Install 24" x 54' Pipe conduit

"L" 1111+00 MATCH LINE

1110

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FH 006 - / (1)	1975	16	18

NOTE:
"O" 1190+00 to 1201+00 Lt and Rt.
and
"A" 10+50 to 16+00 Lt.
Construct "V" Ditch only.
Do not disturb existing back slope.

"O2" 1196+60 Rt
Construct

"O2" 1196+60 Lt. Construct
Type I approach

"O2" 1196+75 to 1199+30 Lt.

"O2" 1196+75 to 1201+00 Rt.

MATCH LINE
1194+00

"O" 1189+68 Install 24"x42" Pipe Conduit
Delete

"L" 1191+00 to 1193+00 Lt.
Widen for sight distance
and ditch.

"O" 1190+48 Install 38"x 42" Pipe Conduit
24" x 40'

"O" 1188+00 Install 24"x42" Pipe Conduit
48'

"O" 1187+00

"O" 1186+00 Install 24"x40' Pipe Cond.
Remove 35' culvert

MATCH LINE
"L" 1179+00

P.T. "L" 1177+18.11

"L" 1178+00

Sta "O" 1195+00 Bk. =
Sta "L" 1173+00 Ahd.

"O" 1194+88 Install 58
60"x72" Pipe Cond.
Remove 68' culvert

"O" 1178+30 Install 24" x 38'
Remove 36' culvert

"O" 1184+00 Install 36"x40' Pipe conduit

Maybeso Road

MATCH LINE
"O" 1174+00

"O" 1187+00 Rt. Construct
approach

"O" 1191+00 to 1193+00 Rt

"O" 1190+00 to 1194+00 Lt.

"O" 1193+30 Rt. Construct
approach

"O" 1193+75 Lt
Obliterate
approach

"O" 1196+60 Rt. Install 24"x 42'
Pipe Conduit

Approx. location of 4" Water Pipe

"O" 1188+00 Install 24"x 50' Pipe Conduit

P.C. "L" 1187+74.79
P.T. "L" 1189+82.72
Δ = 70°54' Lt.

"O" 1184+30 Install
24" x 42" Pipe Conduit
Remove 42' culvert

Sta "L" 1183+40 Bk =
Sta "O" 1183+40 Ahd

S 35°27' E ~ 1056.68

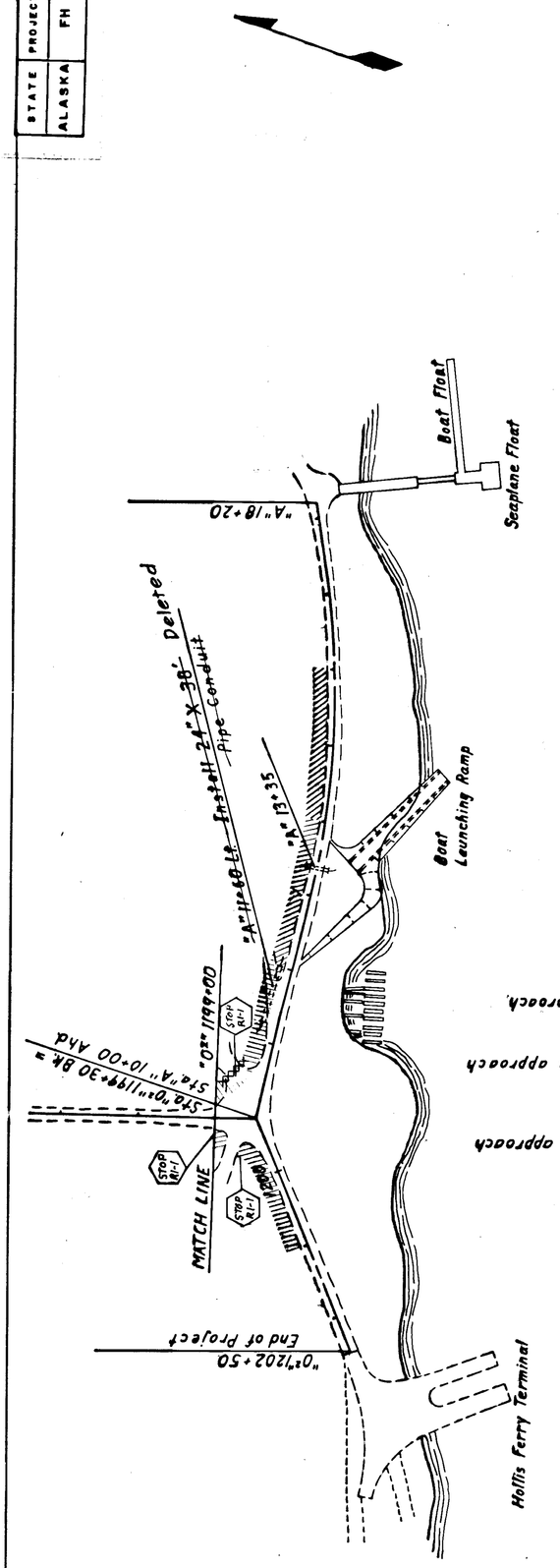
"L" 1181+90
Install 24"x 44' Pipe
Conduit and Remove 39' CMP

MATCH LINE "L" 1179+00

Δ = 98°23' Rt.
P.I. "L" 1165+50.61

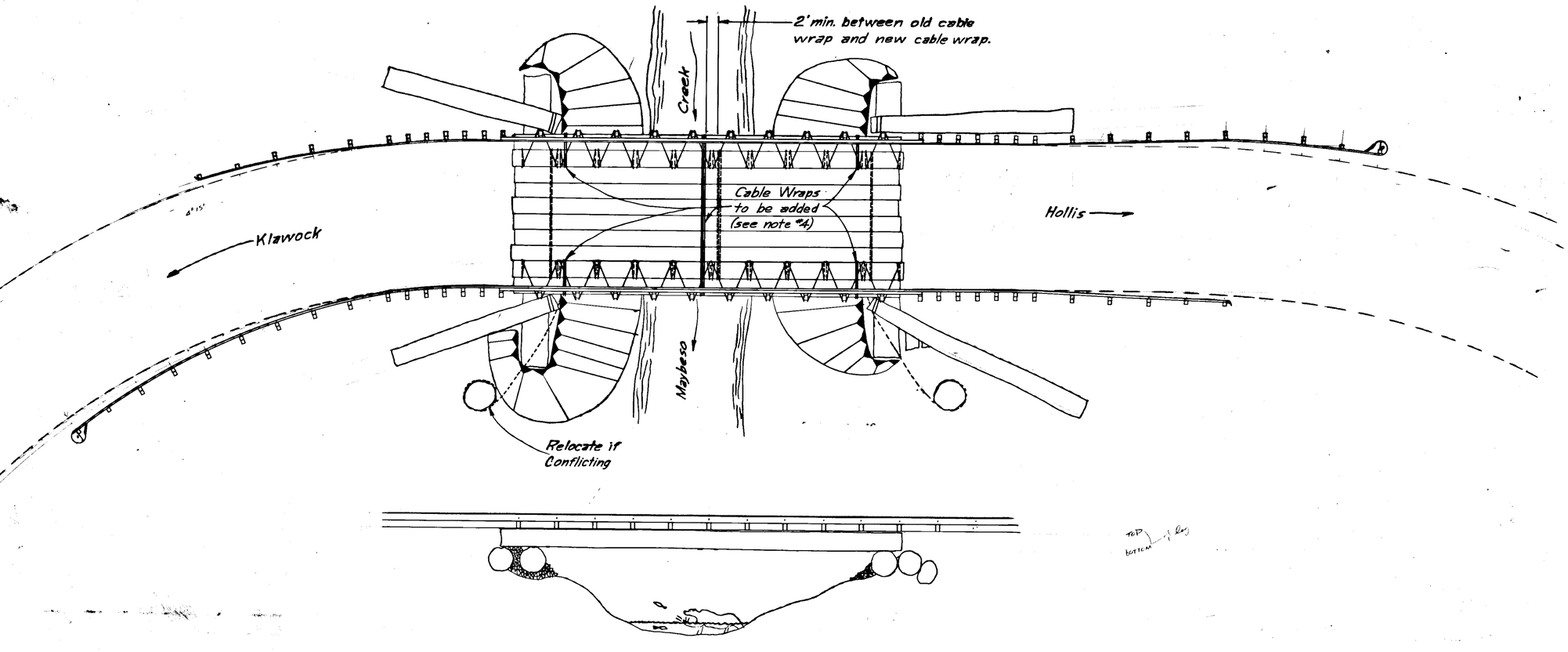
1190
1180
1170
1160

STATE	PROJECT DESIGNATION	YEAR	SHEET No.	TOTAL SHEETS
ALASKA	FH 006-1(1)	1975	17	18



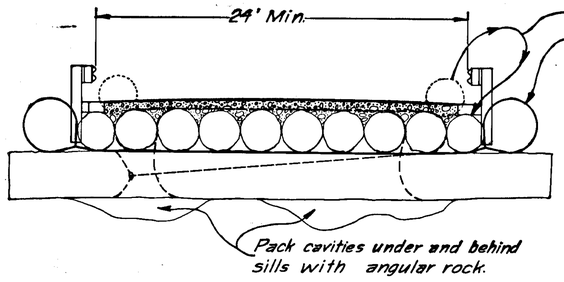
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	FH 006-1(1)	1975	18	18

MAYBESO CREEK BRIDGE

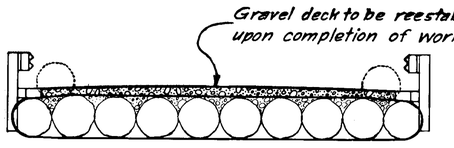


Notes:

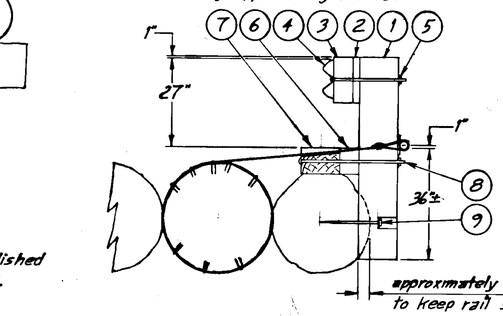
1. Machine place riprap at bridge ends as directed by the engineer. Rock will be from Rock Excavation. Place rock prior to relocating brow logs. The riprap work described above will be paid for under Item 611(1).
2. Hand placing of angular rock under the existing sill logs and backfilling the cavity behind the Klawock end sill log will be included in the lump sum payment of Item 507(2).
3. Roadway guardrail will be paid for under Item 606(1).
4. Add five cable wraps after relocating brow logs. One near midspan, triple wrap - all logs. Two near each abutment, double wrap - the outer two logs. Tension and staple wraps.



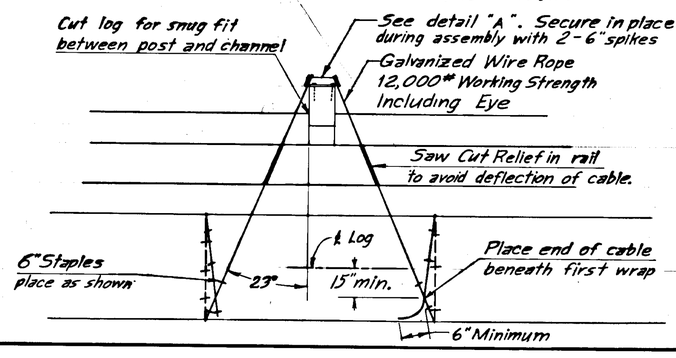
Section At Abutment



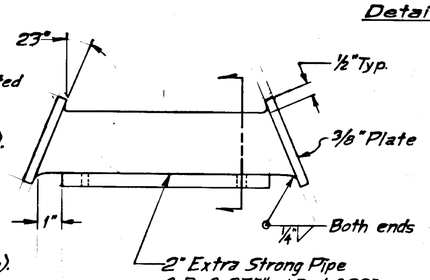
Section At Approximately Midspan

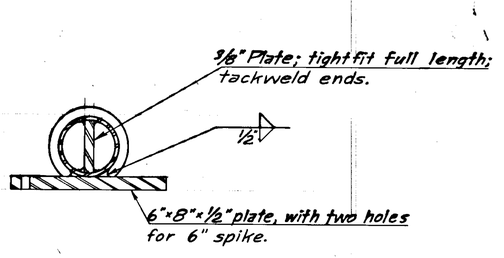


1. 8"×12"× cut length - Dense No. 1, treated timber guardrail post.
2. 2"×14"×24" native spruce spacer.
3. 6"×14"×70' native spruce (each side).
4. Standard Beam type guardrail element.
5. Standard guardrail bolt system with 22" bolt.
6. 8"×8"×variable thickness spacer.
7. 8"×12"×70' native spruce (each side).
8. Standard guardrail bolt system with 32" bolt.
9. 1"×18" lag bolt and washer



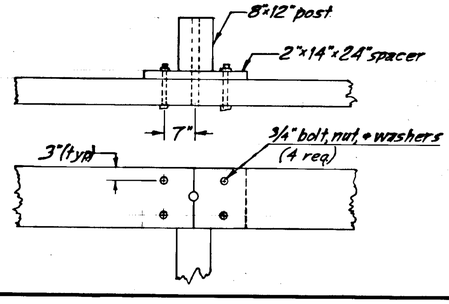
Detail "A"





Splice Detail

Continuous 6"×14" Guard Rail Element Backing, Splice at post only, min. length 12'-6" per timber.



Splice Detail

Continuous 8"×12" Rail, Splice midway Between posts. Min. length 12' per timber.

Drift pins to be located 4' O/C. Additional drift pins are to be located on each side of every splice. Drift pin size: ¾"×24".