

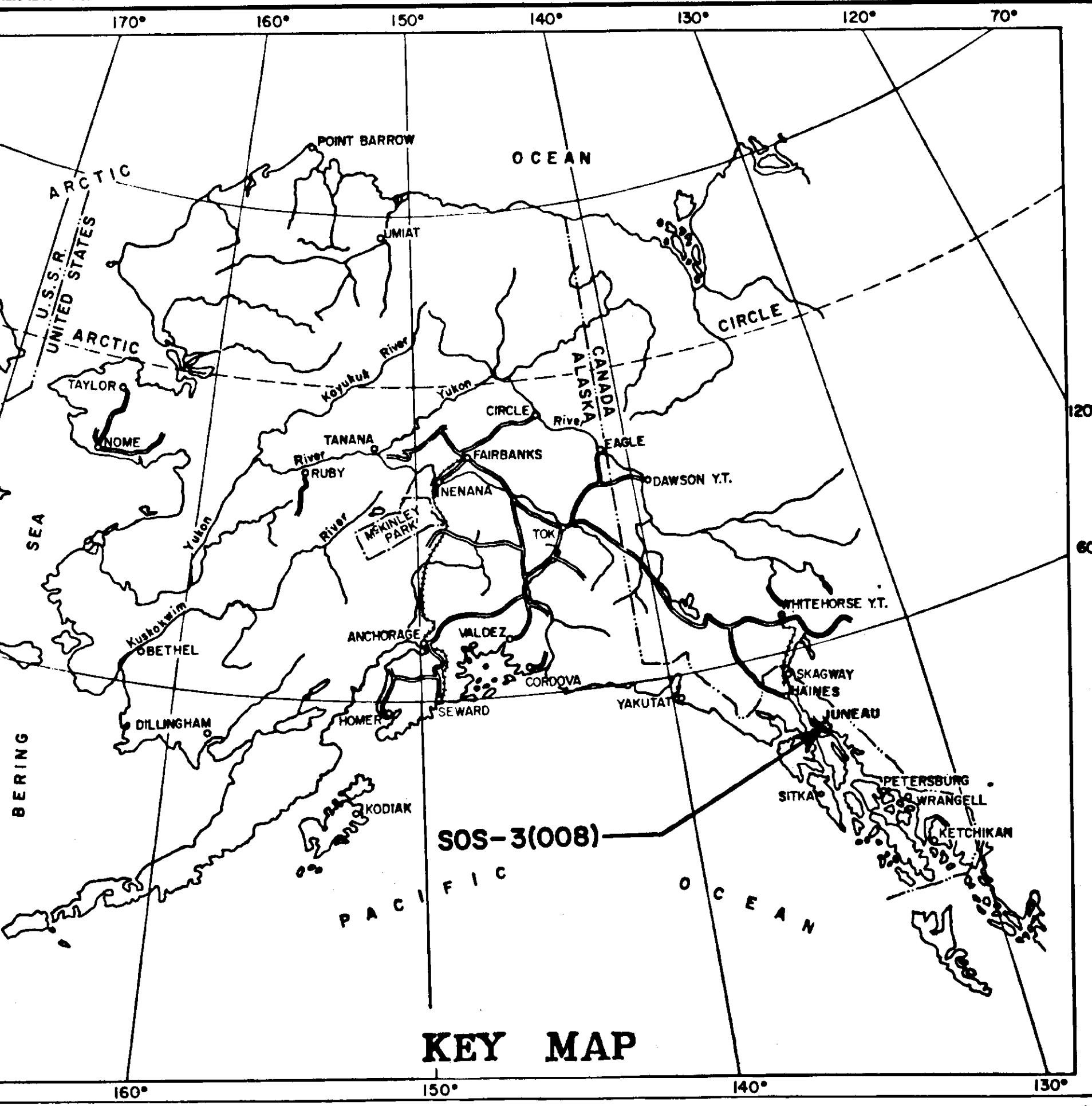
STATE	PROJECT	SHEET NO.	TOTAL SHEETS
ALASKA	SOS-3(008)	1	5

**STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES**

**PLAN AND PROFILE
PROPOSED HIGHWAY PROJECT**

BERNERS AVENUE
RELOCATION OF INTERSECTION
SOS - 3(008)
AS BUILT PLANS

INDEX OF SHEETS	
1	TITLE SHEET
2	TYPICAL SECTION
2	ESTIMATE OF QUANTITIES & SUMMARY
3	PLAN & PROFILE SHEET
4	UTILITIES
5	SIGNING & STRIPING PLAN



THE FOLLOWING STANDARD DRAWINGS SHALL APPLY TO THIS PROJECT:

- A-1, C-00.04, C-10.03, C-11.03, D-01.00, D-04.00, D-05.00, D-07.00, I-40.21, S-00.11, S-05.00, S-30.12, T-21.03

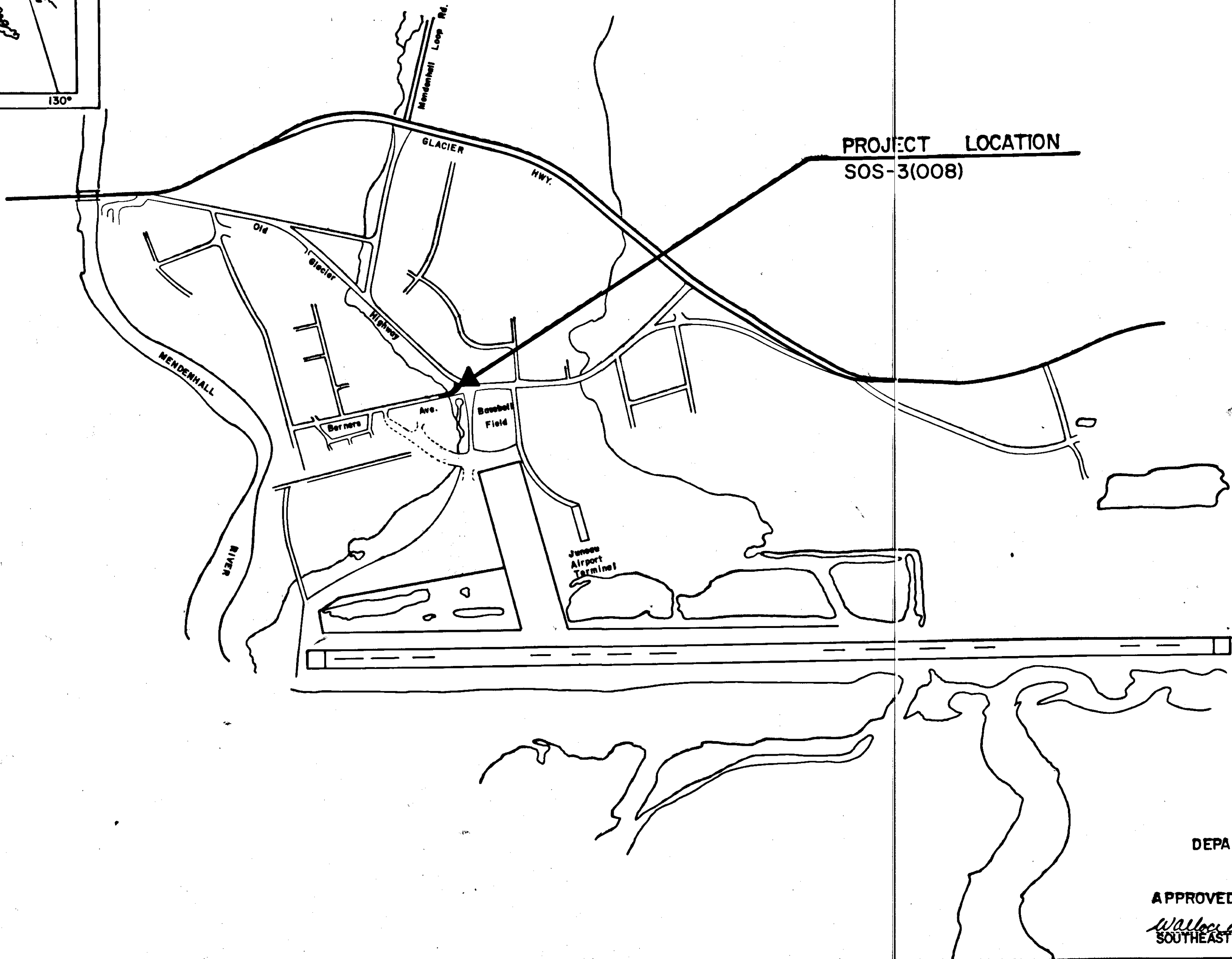
DESIGN DESIGNATION

ADT 1980	=	995
ADT 2000	=	1,571
DHV 12 %	=	188
D	=	60-40
T	=	5 %
T.I.	=	6.0

PROJECT SUMMARY

WIDTH OF PAVEMENT	=	32'
LENGTH OF PROJECT	=	400' = .08 mi.
LENGTH OF EXCEPTIONS	=	0
TOTAL LENGTH OF PROJECT	=	400 = .08 mi.

NO CHANGE IN LENGTH



*CONTRACTOR: BERG CONST. CO. INC.
PROJECT ENGINEERS: PAUL TAYLOR &
PHIL R. SPEER
BEGINNING DATE: 10-13-81
COMPLETION DATE: 7-14-81*

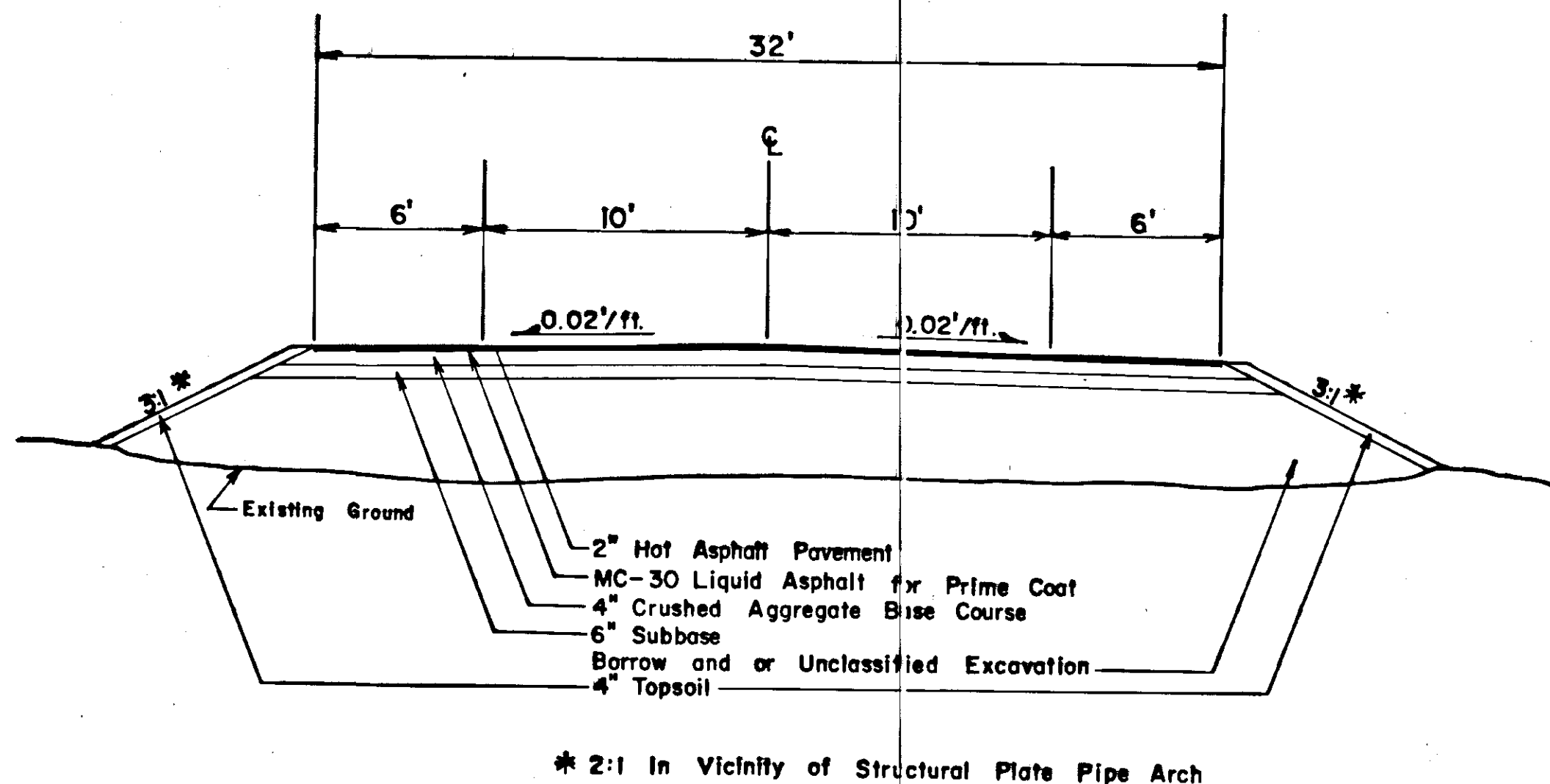
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
APPROVED <i>Walter Kullman</i> SOUTHEAST REGION DESIGN/CONST. ENGINEER	APPROVED <i>Charles J. Tolson</i> DIRECTOR-HIGHWAY DESIGN & CONSTRUCTION
Date 5/15/82	Date 7-8-82

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	UNIT	PROJECT TOTAL
109(1)	Petroleum Escalation	C.S.	
110(1)	Mobilization	L.S.	All Required
111(1)	Temporary Erosion & Pollution Control	C.S.	All Required
114(1)	Construction Engineering by the Contractor	L.S.	All Required
115(1)	Traffic Maintenance	L.S.	All Required
201(3B)	Clearing & Grubbing	L.S.	All Required
202(1)	Removal of Structures & Obstructions	L.S.	All Required
203(12)	Excavation & Embankment	L.S.	All Required
301(1A)	Crushed Aggregate Base Course	L.S.	All Required
304(3)	Subbase, Grading A	L.S.	All Required
401(1A)	Hot Asphalt Pavement	L.S.	All Required
401(2A)	AC-5 Asphalt Cement	L.S.	All Required
403(1A)	MC-30 Liquid Asphalt for Prime Coat	L.S.	All Required
602(2D)	Structural Plate Pipe Arch, Span 7'-0" Rise 5'-1"	L.F.	60
603(22G)	24" Pipe Conduit	L.F.	10
615(1)	Standard Signs	S.F.	28.67
618(1A)	Seeding	L.S.	All Required
629(1)	Guide Markers	E.A.	14
670(1)	Painted Traffic Markings	L.S.	All Required
606(1A)	Beam Type Guard Rail		
	Type I Posts (E.W.O. #13)	L.S.	All Required

TYPICAL SECTION OF IMPROVEMENT

BERNERS AVENUE INTERSECTION
PROJECT NO. SOS-3(008)



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOT. SHE.
ALASKA	SOS-3(008)	1980	2	5

ESTIMATE OF QUANTITIES & TYPICAL SECTION

GENERAL NOTES

- Grades & Alignment shown on the Plans are Subject to minor Revision
- Culvert Lengths & Location are Approximate only and are subject to minor Revision
- Topsoil and Seeding Area Shall include Fill Slope and Obliteration Area
- Obliteration of Roadway to be Incidental to Bid Item 203(12)
- Work in Duck Creek will be permitted between the dates of June 15 and August 15.
- Clearing limits shall be to the toe of slope and to the Line indicated on the Plans
- Duck Creek shall be graded six feet wide between the old and new culvert to elevation 178 incidental to other items of work.
- Utilities as shown on the Plans will be removed by others. Electrical work will be completed within 30 days of contract award and Telephone work will be accomplished in conjunction with this contract.
- Radii on Berners Ave shall be built in accordance with Standard Drawing I-40-11 Public Road Approach.

ESTIMATED ROADWAY QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY
01(3B)	Clearing & Grubbing	0.3 ACRE
03(12)	Excavation & Embankment (Excavation)	190 C.Y.
03(12)	Excavation & Embankment (Embankment)	629 C.Y.
01(1A)	Crushed Aggregate Base Course	270 Tons
04(3)	Subbase, Grading A	430 Tons
01(1A)	Hot Asphalt Pavement	132 Tons
01(2A)	AC-5 Asphalt Cement	8 Tons
03(1A)	MC-30 Liquid Asphalt for Prime Coat	1.13 Tons
02(2D)	Structural Plate Pipe Arch, Span 7'-0" Rise 5'-1"	60 L.F.
03(22G)	24" Pipe Conduit	10 L.F.
15(1)	Standard Signs	28.67 S.F.
08(1A)	Seeding	3.75 MSF
29(1)	Guide Markers	14 Each
70(1)	Painted Traffic Markings	1,536 L.F.
06(1A)	Beam Type Guard Rail - Type I Post	200 L.F.

SIGN SCHEDULE NOTES

- All Signs & Posts Removed Shall be Returned to the DOT/PP Maintenance Station as directed by the Engineer. This work shall be considered incidental to Item 615(1) Standard Signs.
- Sign Location & Post Length are Approximate only & are Subject to minor Revision
- All Sign Posts Shall be Telescoping Perforated Galvanized 1/2 the 2 1/4 Size Shall be used below Ground for the Sleeve
- All Posts Shall be Installed with Sleeve Type Embedment In accordance with Standard Drawing 5-30.12 Except that the 2 1/4 Size Shall be used For the Entire Embedment Depth
- Post Lengths are from the Cut OFF In Sleeve To the Top of the Post See Standard Drawing 5-30.12 & 5-05.00
- All Signs Shall be .063 thick
- All New Signs Shall be Unframed

SIGNING SCHEDULE

No.	Station	Dist. - E		Code No.	Legend	Size in inches	Sq. ft.	No. posts	Lgth. in ft.	Remarks
		Lt.	Rt.							
1	"0"0+20	34'		R1-1	STOP	30"x30"	6.25	1	11	
2	"0"0+20	34'		D3-1	Berners Ave.	8"x48"	2.67	-	-	Mount on Top of Stop Sign
3	"0"1+15	35'		W1-6L		36"x18"	4.5	2	14'	
4	"8"3+00		25'	R2-1	Speed Limit 20	24"x30"	5.0	1	15'	
5	"A"0+30	8'		W14-3	END	24"x24"	4.0	1	11'	Locate on Airport Access Road
6	"A"0+30	8'		Type II	Object Marker	18"x18"	2.25	-	-	Mount below End Sign
7	"A"4+00	25'		W14-1	DEAD END	24"x24"	4.0	1	11'	Locate on Airport Access Road
8	"0"0+48	14'			STOP & Berners Ave					Remove Sign & Post *
9	"A"0+30	8'			STOP					Remove Sign & Post *

REMOVAL OF STRUCTURES & OBSTRUCTIONS

Station	Offset	Description & Remarks	Station	Offset	Description & Remarks
"8"0+50	15' Rt.	Remove #1 25 L.F. of Existing Guardrail.	"0"0+60	30' Rt.	Remove Existing Log Bridge & Bulkhead
"8"0+80	0	Removal of an 8'-20' Concrete Bridge Including: ① Concrete Wing Walls, Each End ② 7'x10.5' Steel Arch Multi-Plate Extension. ③ 50' of Bridge Rail			

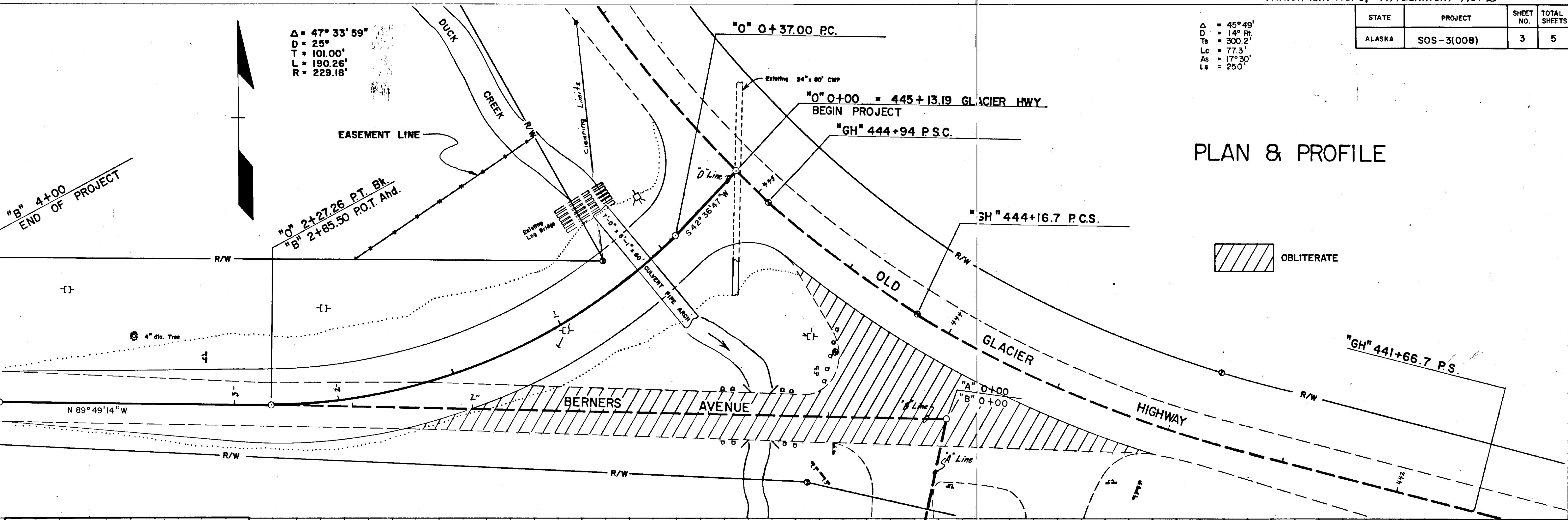
BASIS OF ESTIMATE

ITEM	FACTOR
203(12)	1.89 Tons/Cubic Yard (Embankment)
301(1A)	1.96 Tons/Cubic Yard
304(3)	1.96 Tons/Cubic Yard
401(1A)	115 lbs. per Sq. Yd. / Inch Depth
401(2A)	6% of Item 401(1)
403(1A)	0.25 Gal. per Sq. Yd. - 256 per Ton @ 60°F

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
ALASKA	SOS-3(008)	3	5

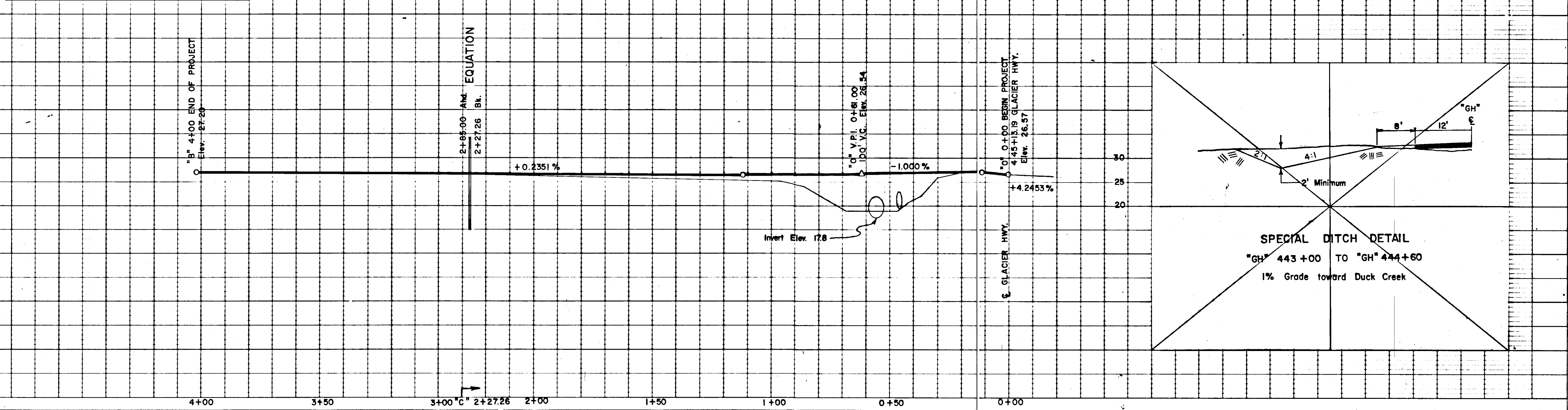
Δ = 45° 49'
 D = 14° Rt.
 Ts = 300.2'
 Lc = 77.3'
 As = 17° 30'
 Ls = 250'

PLAN & PROFILE



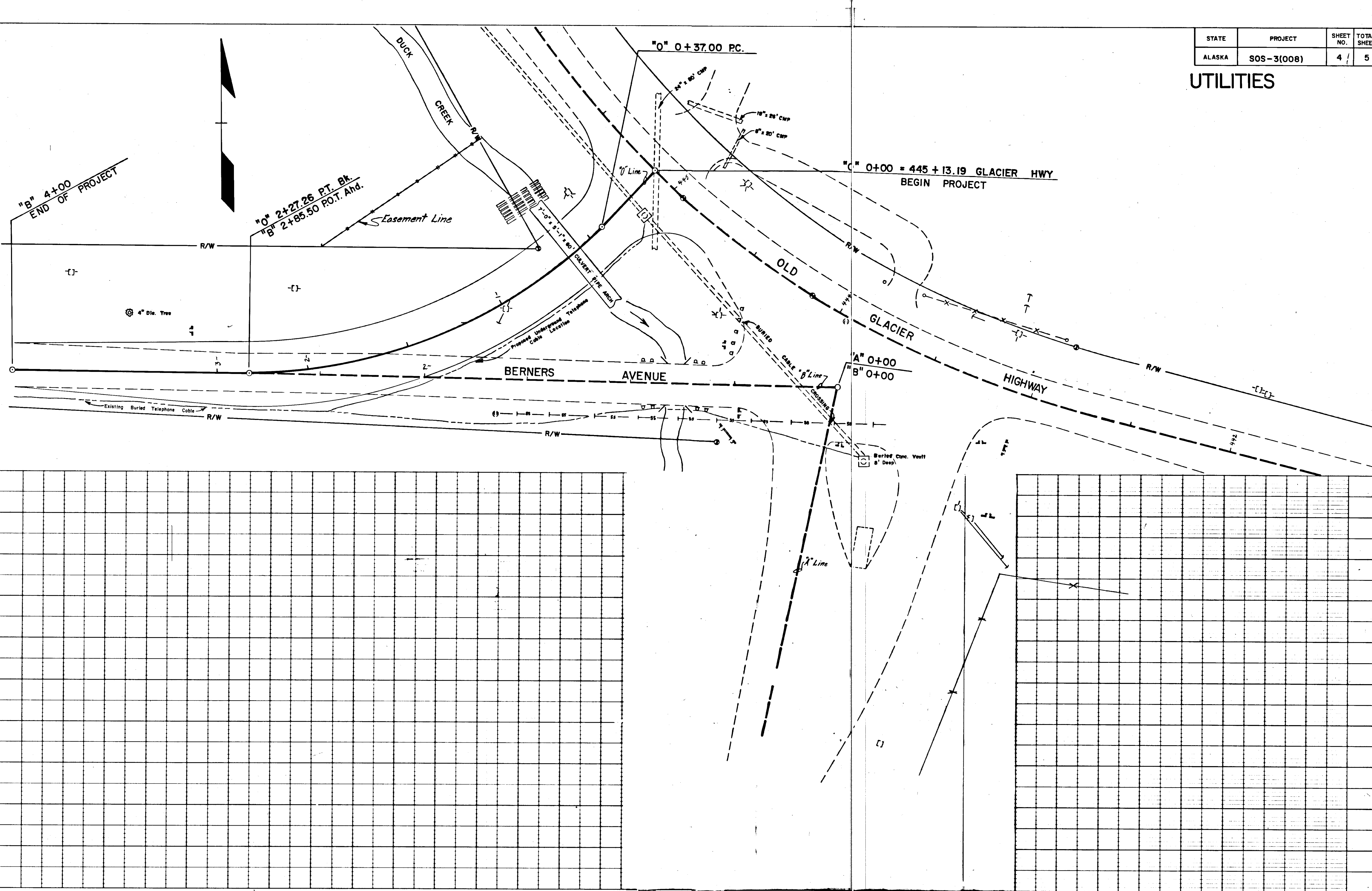
VERTICAL CONTROL: 8" Spike in P.P., N.W. Corner of Pat Chevron

HORIZONTAL CONTROL: Base on Bearing of N 87° 41' 45" W from airport monument No. 13 Berners Ave. to a 2 1/2 inch Brass Cap Right of Way Monument location at Intersections Lodd St and Berners Ave.



STATE	PROJECT	SHEET NO.	TOTAL SHEETS
ALASKA	SOS-3(008)	4	5

UTILITIES



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SOS- 3(008)	1980	5	5

STRIPING & SIGNING PLAN

STRIPING NOTES

1. All markings shall be Thermoplastic Type A as per Standard Specification no. 712.
2. All markings shall conform to the Alaska Traffic Manual and Standard Drawing T-21.02.
3. Approximately 760' of 4" yellow thermoplastic & approx. 760' of 4" white thermoplastic shall be required. 16' of 24" yellow thermoplastic shall be required.

