

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

**PLAN AND PROFILE  
PROPOSED HIGHWAY PROJECT**

**KETCHIKAN VIADUCT RESURFACING  
PROJECT NO.  
A-81501**

**AND**

**TONGASS HIGHWAY PAVING  
PROJECT NO.  
A-81531**

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
ALASKA	A-81501 A-81531	A-1	9

**INDEX OF SHEETS**

A-1	Title Sheet
1	Title Sheet - A-81531
2	Typical Section A-81531
3	Plan Sheet A-81531
4	Striping Detail A-81531
5	Title Sheet A-81501
6	Typical Section A-81501
7	Estimate of Quantities
8	Traffic Control Plan - A-81501
9	Joint Repair Details

*AS BUILT PLANS*

CONTRACTOR: ASSOCIATED SAND AND GRAVEL, CO. INC.  
BEGINNING DATE: 4-26-82  
COMPLETION DATE: 8-4-82  
PROJECT ENGINEER: DALE F. ROBBINS

-NOTE- SEE SHEETS L 8.5

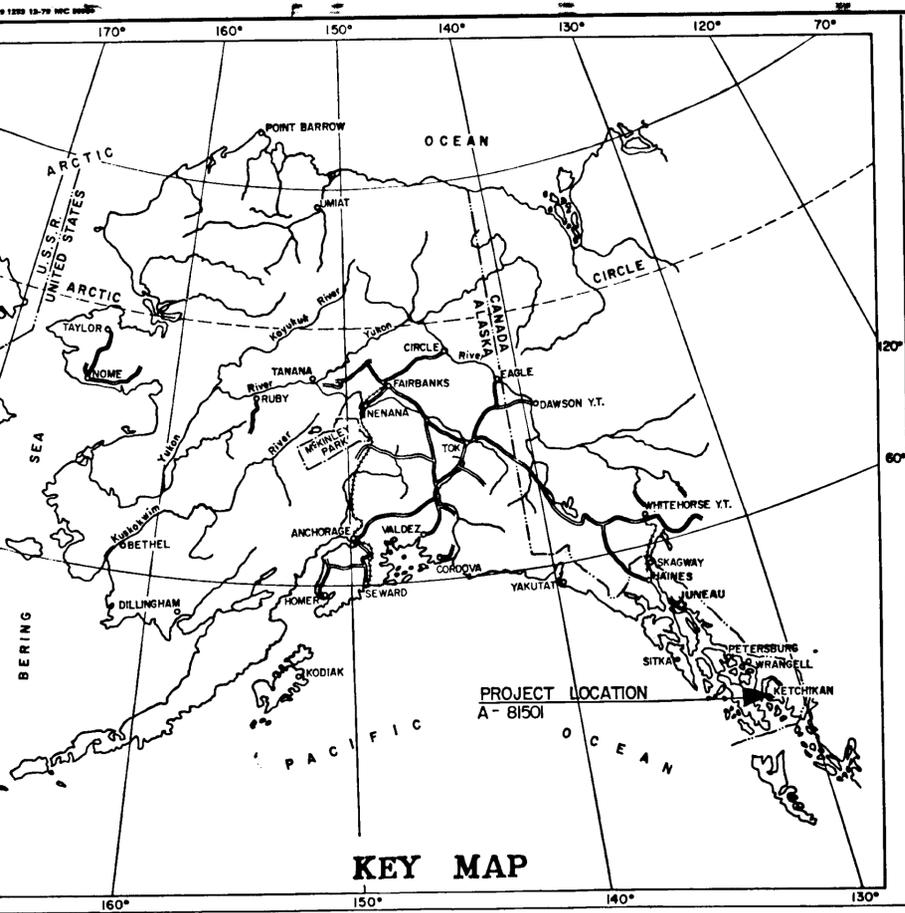
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
&  
PUBLIC FACILITIES

APPROVED  
*Wallace K. Wilborn* DATE 11-16-81  
SOUTHEASTERN REGION  
DESIGN/CONST. ENGINEER FOR HIGHWAYS  
AND AVIATION

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
&  
PUBLIC FACILITIES

APPROVED  
*Charles S. Harbeck* DATE 11-17-81  
DIRECTOR - S. E. REGION DESIGN/CONSTRUCTION

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
ALASKA	A-81501	5	9



# STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES

## PLAN AND PROFILE PROPOSED HIGHWAY PROJECT

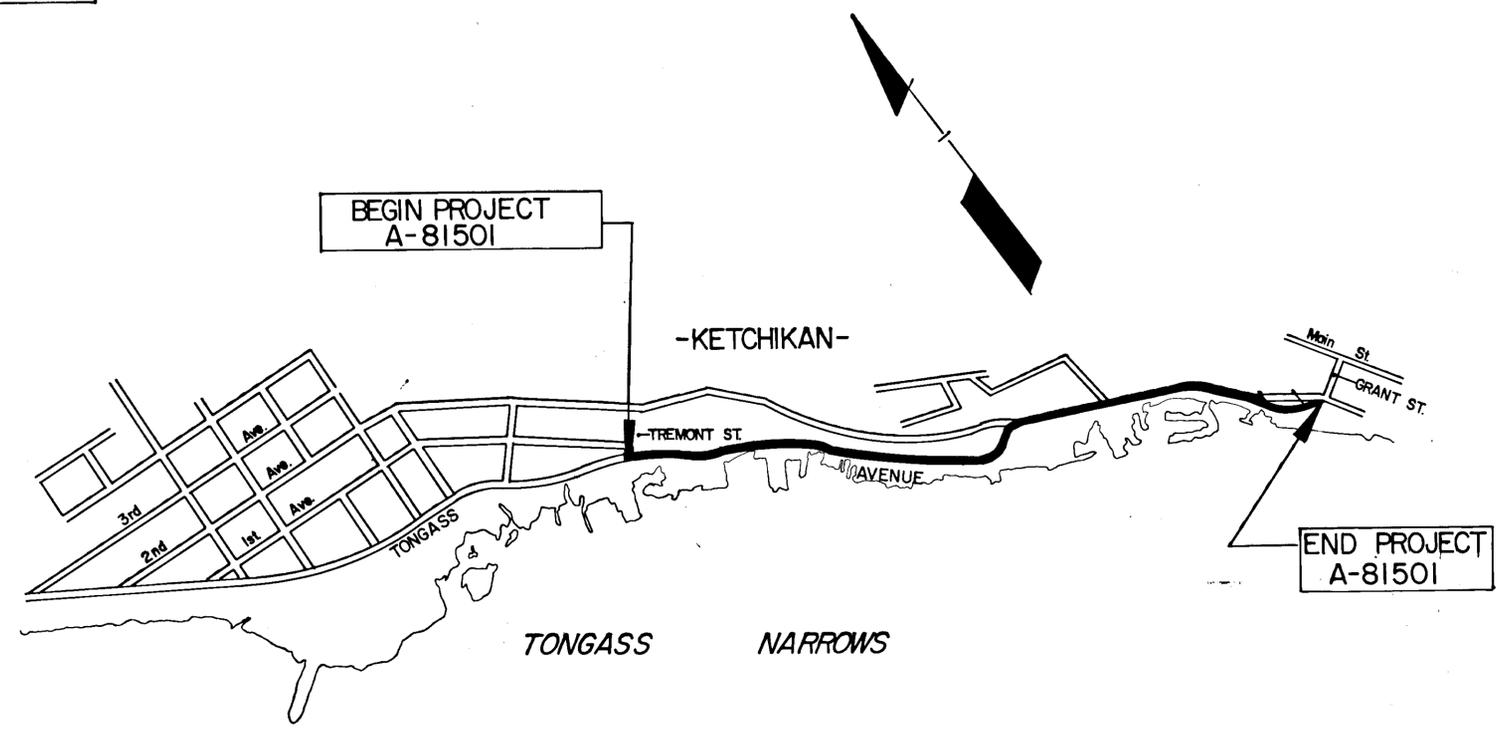
### KETCHIKAN VIADUCT RESURFACING

PROJECT NO.  
A-81501

INDEX OF SHEETS	
5	Title Sheet
6	Typical Section
7	Estimate of Quantities
8	T.C.P.
9	Joint Repair Details

DESIGN DESIGNATION

ADT (1980)	= 15,442
ADT (2001)	= 22,946
DHV (14%)	= 4,589
D	= 45-55
T	= 4.0%
V	= 25 m.p.h.
T.I.	= 9.0



THE FOLLOWING STANDARD DRAWINGS ARE INCLUDED IN THIS PROJECT: A-1, C-00.04, C-10.04, C-11.04, T-20.03

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
&  
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APPROVED  
*Wallace K. Williams* DATE 11-16-81  
SOUTHEASTERN REGION  
DESIGN/CONST. ENGINEER FOR HIGHWAYS  
AND AVIATION

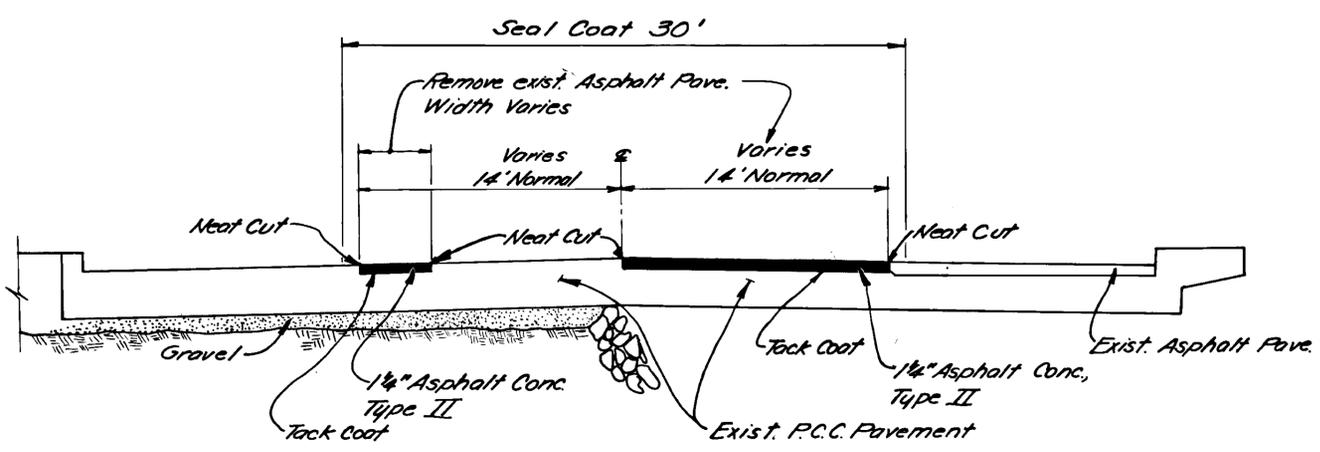
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
&  
PUBLIC FACILITIES

APPROVED  
*Charles S. Smith* DATE 11/17/81  
DIRECTOR - S. E. REGION DESIGN/CONSTRUCTION

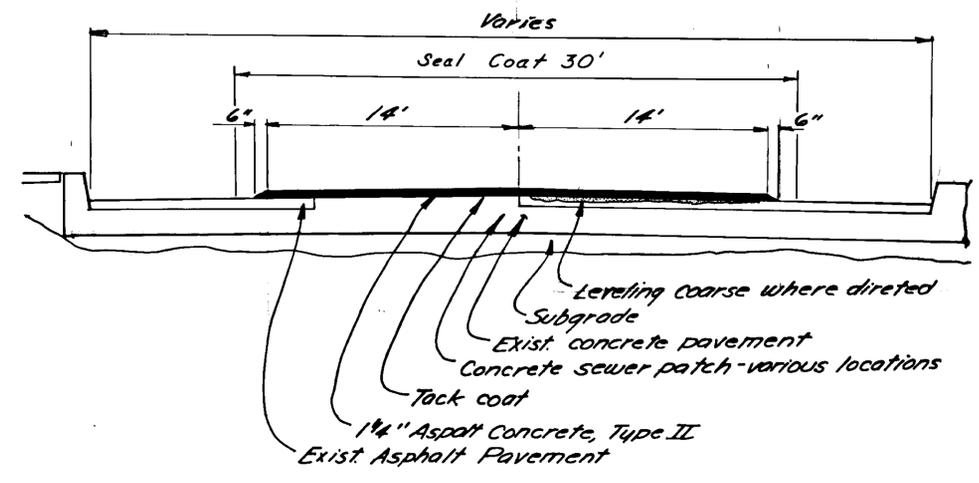
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	A-81501	1981	6	9

# TYPICAL SECTIONS OF IMPROVEMENTS

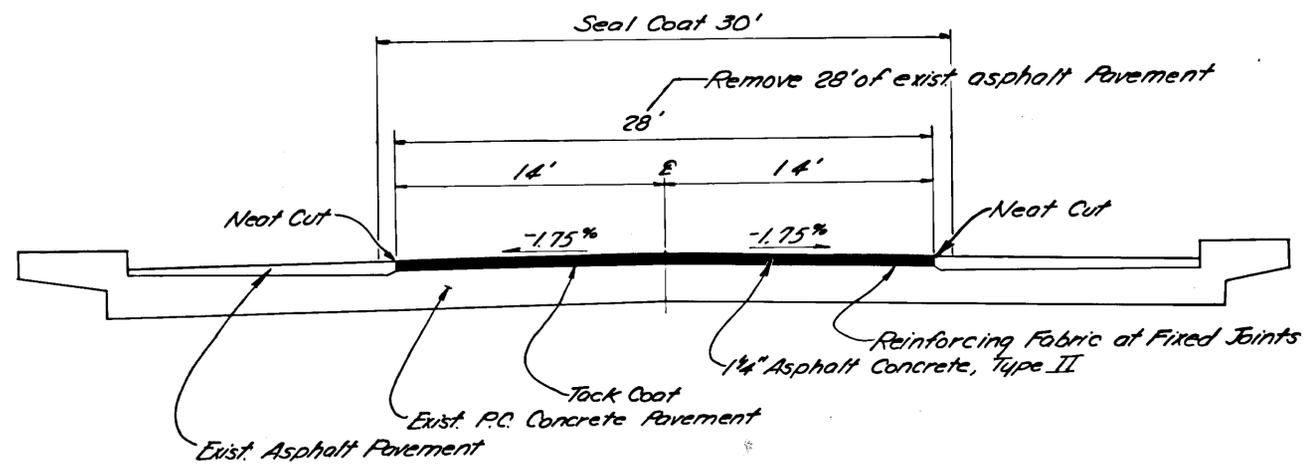
TYPICAL SECTIONS



"AS BLT." STA. 120+30 to 121+60  
 130+65 to 134+00  
 "W" 134+00 to "W" 139+00



"AS BLT." STA. 117+80 to 120+30  
 121+60 to 122+90  
 "T" 134+00 to "T" 138+18  
 Front St. Intersections at Grant St, Dock St. & Mission St



"AS BLT." STA. 100+67.78 to STA. 117+80 AND  
 STA. 122+90 to STA. 130+65

-NOTE- As Built Stationing from Ketchikan Deck  
 Reconstruction Project F-095-2 (7)

-GENERAL NOTES-

1. The station limits for the various Typical Sections are approximate only and are subject to minor revisions by the engineer.
2. The contractor shall be responsible for protecting the valve boxes and manholes within the limits of pavement removal between the time the pavement is removed & the placement of the finished mat. Any valve boxes or manholes that are damaged during this phase of construction shall be repaired by the contractor at his expense.
3. The manholes at the locations listed below shall be adjusted by removal of the riser rings & the lids shall be welded shut. Coated nickel electrodes compatible with cast iron shall be used. Alternating 3 inch welds & 6 inch gaps for the circumference of the lid shall be required. The adjusted manholes shall be covered with asphalt concrete to finished grade. The welding of the lids shall be incidental to Item 604(4), adjust exist. manholes, and no additional compensation will be made. Sta. 100+85-9' Lt., 103+16-9' Lt., 105+10-10' Lt., 106+80-12' Lt., 108+60-8' Rt., 111+38-10' Rt., 115+43-4' Rt., 125+14-9' Lt., 128+10-10' Lt., 130+10-11' Lt., 136+69-E.



STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	A-81501 A-81531	1981	7	9

ESTIMATE OF QUANTITIES

ITEM O.	ITEM	UNIT	A-81501	A-81531	A-81501 A-81531
9(1)	Petroleum Escalation	C.S.	All Req'd	All Req'd	All Req'd
10(1)	Mobilization	L.S.	All Req'd	All Req'd	All Req'd
11(1)	Temporary Erosion & Pollution Control	C.S.	All Req'd	All Req'd	All Req'd
13(1)	Flagging	M.H.	250 271	1500 1302	1,750
14(1)	Const. Surveying by the contractor	L.S.	All Req'd	All Req'd	All Req'd
19(2)	Culvert realignment C.O.#1	L.S.		All Req'd	All Req'd
25(1)	Traffic Maintenance	L.S.	All Req'd	All Req'd	All Req'd
28(2)	Removal of Pavement	S.Y.	10,000 9906		10,000
23(2)	Excavation & Embankment	L.S.		All Req'd	All Req'd
31(1)	Crushed Aggregate Base Course	TON		11,720	11,720
35(2)	Stock Piled Material Section 404(2) Grading, Type 2	TON	320		320
			1013.36	23984.8	
31(1)	Asphalt Concrete, Type II	TON	100	22,757	23,357
31(2)	AC-10 Asphalt Cement	TON	69,35184	1,365	1,434
32(1)	CSS-1 Asphalt for Tack Coat	TON	3 2.98	30 36.74	33
33(2)	MC-30 Liquid Asphalt for Prime Coat	TON		12	12
34(1)	CRS-2 Asphalt for Seal Coat	TON	12.9 12.05		12.7
34(4)	Maintenance paving C.O.#2	TON		80.21	80.21
34(2)	Cover Coat Material, Grading, Type 2	TON	160 139.46		160
31(7)	Joint Repair & Reconstruction	L.S.	All Req'd		All Req'd
23(29)	24" Pipe	L.F.		112	112
23(30)	30" Pipe	L.F.		6	6
34(4)	Adjust Exist. Manholes	ea.	22 16		22 16
36(1)	Beam Type Guardrail, Type I Post	L.F.		450 400	450 400
34(1)	Survey Monuments	ea.		79 56	79 56
34(4)	Adjust Exist. Monument Cases	ea.	20	15 13	17 13
34(1)	Reinforcing Fabric	S.Y.	628 1072.66		628
39(1)	Approaches	ea.		356 318	356 318
70(1)	Painted Traffic Markings	L.S.	All Req'd	All Req'd	All Req'd
70(6)	Thermoplastic Pavement Markings	L.S.		All Req'd	All Req'd

1573

9906

12,373.8

24,998.16

1383.64

39.72

12.05

139.46

1072.66

CHANGE ORDER #1 Established new item 109(2) culvert realignment. Work consisted of removing and realigning 32 L.F. of 24" pipe to avoid a 6" water main at site of pipe #1 in Saxman.

CHANGE ORDER #2 Established new item 401(4) maintenance paving. Work consisted of paving approx. 80 tons of asphalt concrete, type II along three areas of North Tongass Highway. Paving required to remove three settlement dips.

BASIS OF ESTIMATE-A-81501

ITEM	ESTIMATING FACTOR
401(1)	120 lb/s.y./inch depth
401(2)	6% of Item 401(1)
402(1)	.05 gal/s.y. Undiluted Mixture
70(1)	Painted Traffic Markings 2,370 Lin. Ft. of 4" Yellow 1,400 Lin. Ft. of 2 1/2" White



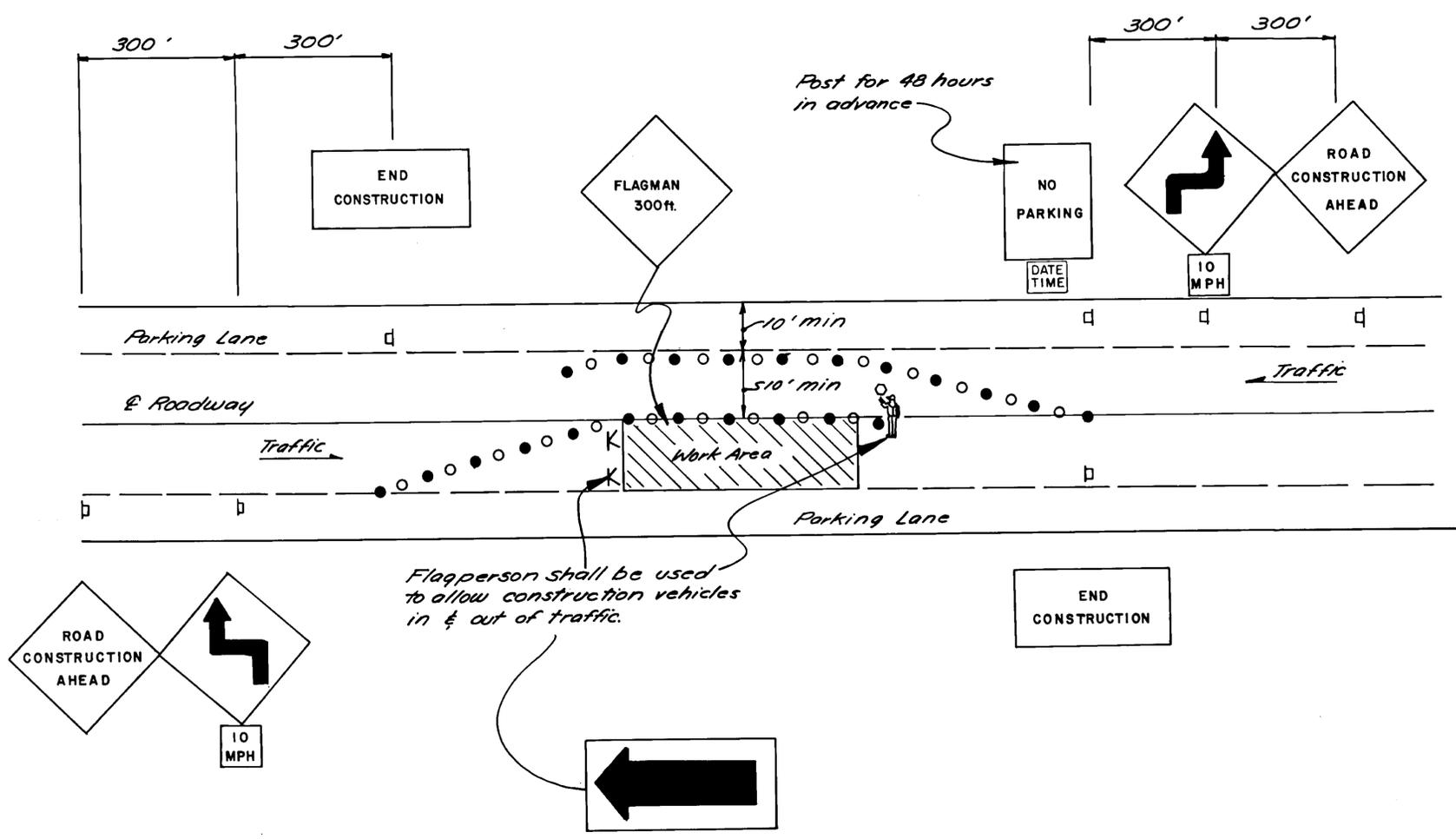
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**TYPICAL LANE CLOSURE PLAN**

This typical shall be reversed for work in the opposite lane.

**TRAFFIC CONTROL PLAN**

1. Two way traffic shall be maintained at all times by the deletion of parking through the construction area and using the parking lane as a traffic lane. Any parking signs shall be covered and adequate temporary no parking signs installed, 48 hours in advance of the parking lane closures.
2. The contractor shall designate at least one employee to maintain & continuously monitor the condition & placement of all traffic control devices during roadway work operations. This employee shall have no other duties.
3. The contractor shall coordinate his work with the city and shall have prior approval before closing or detouring any traffic over any side street.
4. The contractor shall be responsible for keeping the public advised through the news media of his construction activities & scheduling.

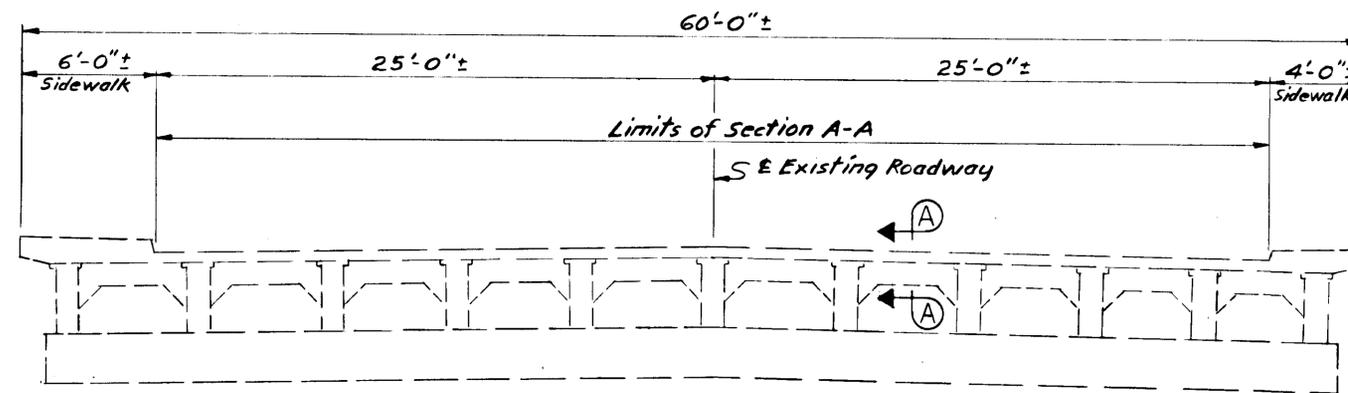


Flagperson shall be used to allow construction vehicles in & out of traffic.

- K- Type III Barricades
- Cones
- Barrels

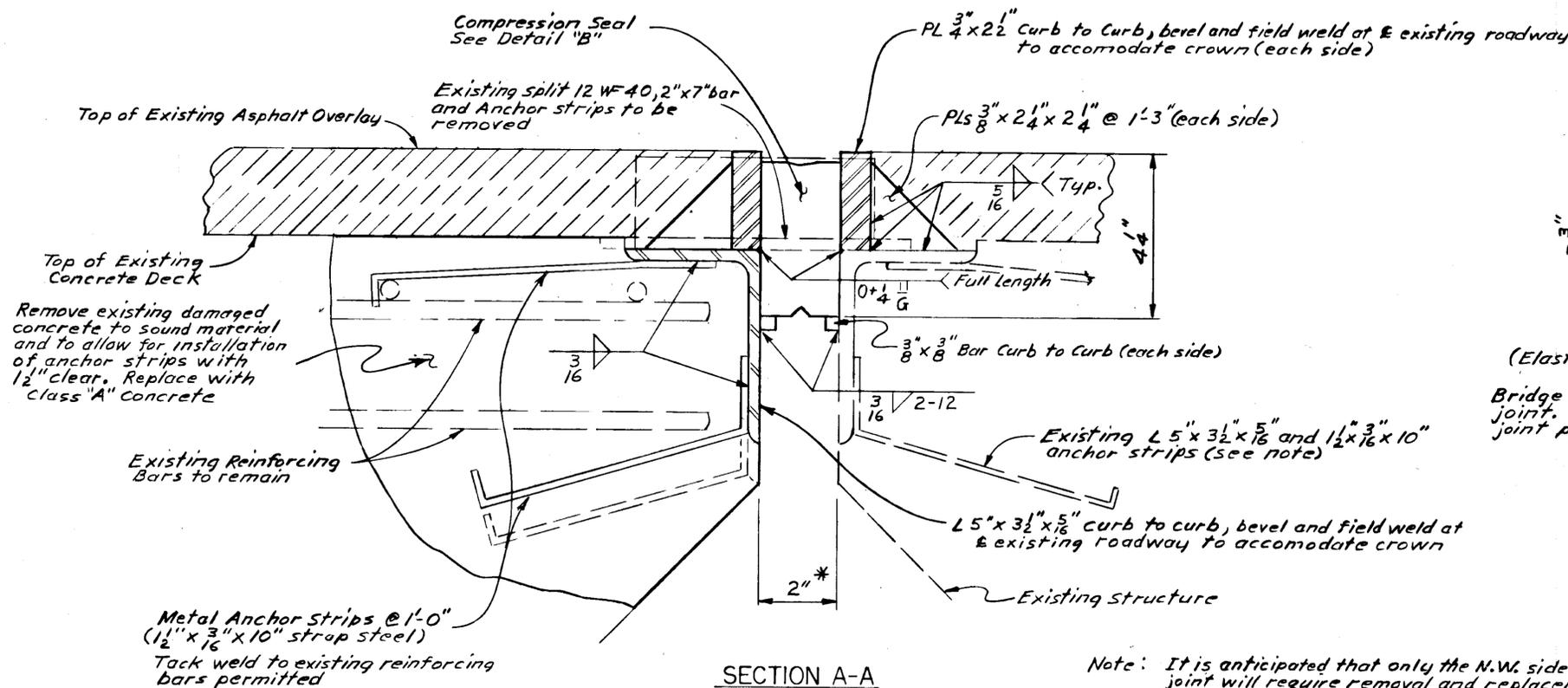


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**TYPICAL SECTION  
AT EXISTING BENT 40  
(LOOKING SOUTHEAST)**

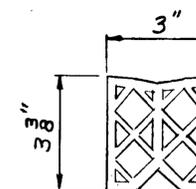
*Note: The Contractor shall take adequate precautions to protect the repaired expansion joint during the curing period required for new concrete. See Section 501-3.08 of the Standard Specifications. Prior to beginning any work on the joint to be repaired, the Contractor shall submit a work plan to the Engineer for approval. This shall include work sequence, traffic diversions, and proposed protective measures.*



**SECTION A-A**

*Note: It is anticipated that only the N.W. side of the expansion joint will require removal and replacement of the embedded structural steel shape. Any concrete removal and replacement on the S.E. side will be paid for as extra work.*

*All new structural steel shall conform to A.S.T.M. A36.*



**DETAIL "B"**

*(Elastic Compression Seal)  
(50 durometer)  
Bridge seal continuous for length of new joint. Compress and install in lubricated joint per manufacturer's instructions.*

MYLAR REPRODUCIBLE COPY  
PRINTED NOVEMBER 13, 1981

**TONGASS AVENUE VIADUCT  
ROUTE U-902  
JOINT REPAIR**

No Scale

State of Alaska  
**DEPARTMENT OF TRANSPORTATION  
and PUBLIC FACILITIES**  
Juneau, Alaska



Date \_\_\_\_\_  
Approved \_\_\_\_\_

BRIDGE NO. 997  
DWNG. NO. \_\_\_\_\_

