State of Alaska

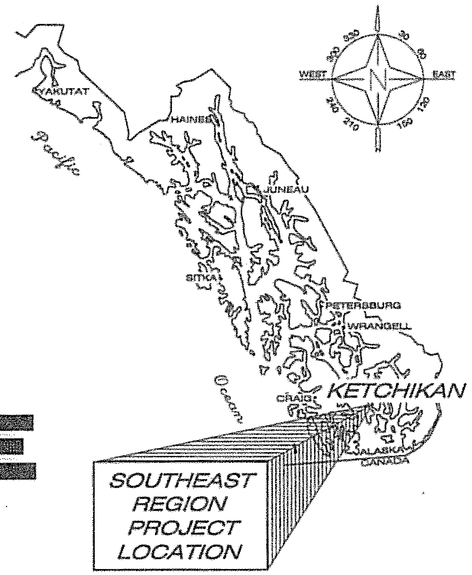
Department of Transportation and Public Facilities

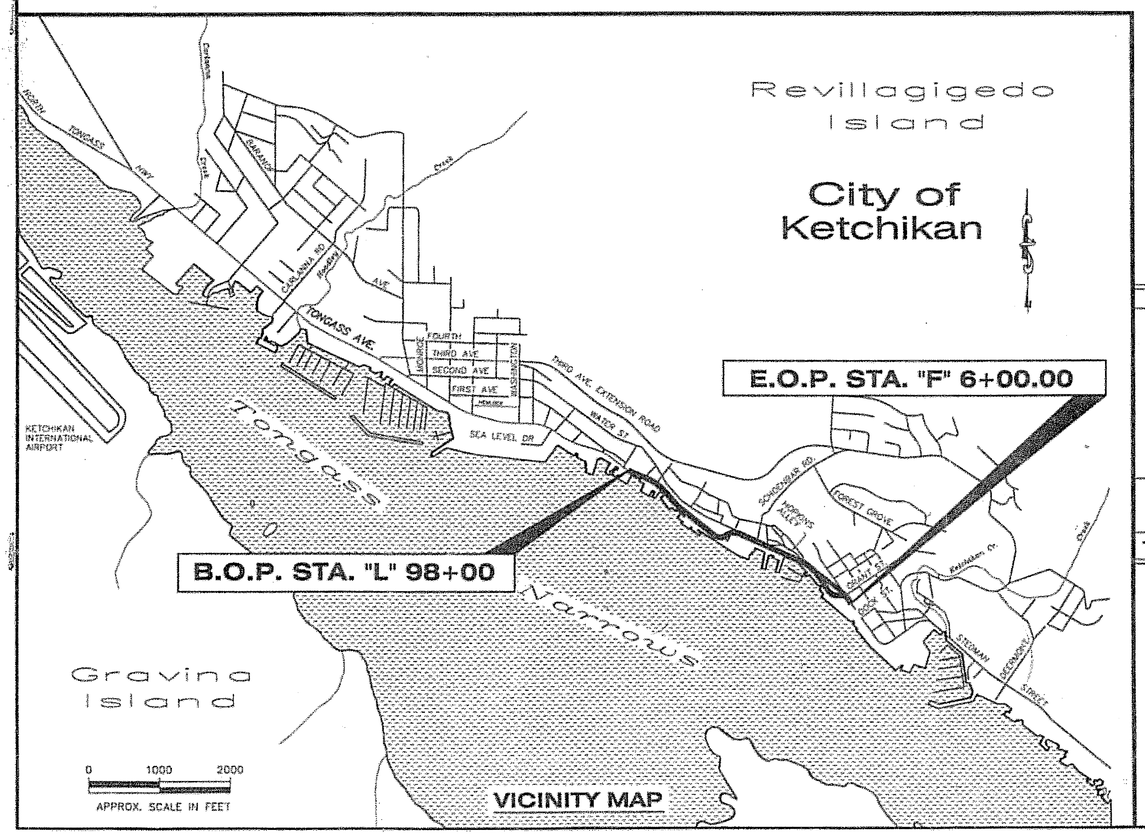
Statewide Design and Engineering Services Division

KETCHIKAN, ALASKA

TONGASS AVENUE RESURFACING

68140 ~ IM-0902(28)





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As Built Plans 2-19-10

Project Engineer: Mark Figley
Contractor: Bicknell
Start: July 11, 2005
End: November 25, 2007

ROUTE: 291400 | MILEPOINT: 1.199 TO 1.985

PATH: Q:\Ktn\68140\Planset\A1 TSHT.dwg
Tue, 10/May/05 09:09AM dastevens
PLOT: PSPACE OR MSPACE: 1=1(F)

DESIGN DESIGNATIONS

	2006	2026
A.D.T.	18,940	20,920
D.H.V. 10%	2,030	2,240
V. (MPH)	25	25
P.H.F.	0.9	0.9
D.	55/45	55/45
%T.	1.8%	1.8%
EAL (10 YR.)		1,200,000

TURNING VEHICLE: WB25
VEHICLE LOADING: HS25

PROJECT SUMMARY

CDS ROUTE NO. 291400
CDS MILEPOINT 1.199 TO 1.985
LENGTH OF PROJECT: 0.79 MILES
LENGTH OF ASPHALT PAVING: 0.79 MILES
WIDTH OF ASPHALT PAVING: VARIES (25 FT TO 50 FT)

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:

A–1

C–03.10
C–04.12
C–05.10

I–20.13

S–00.10
S–01.00
S–05.01
S–20.10
S–30.03

T–20.02
T–21.02
T–22.03
T–23.00
T–34.01

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

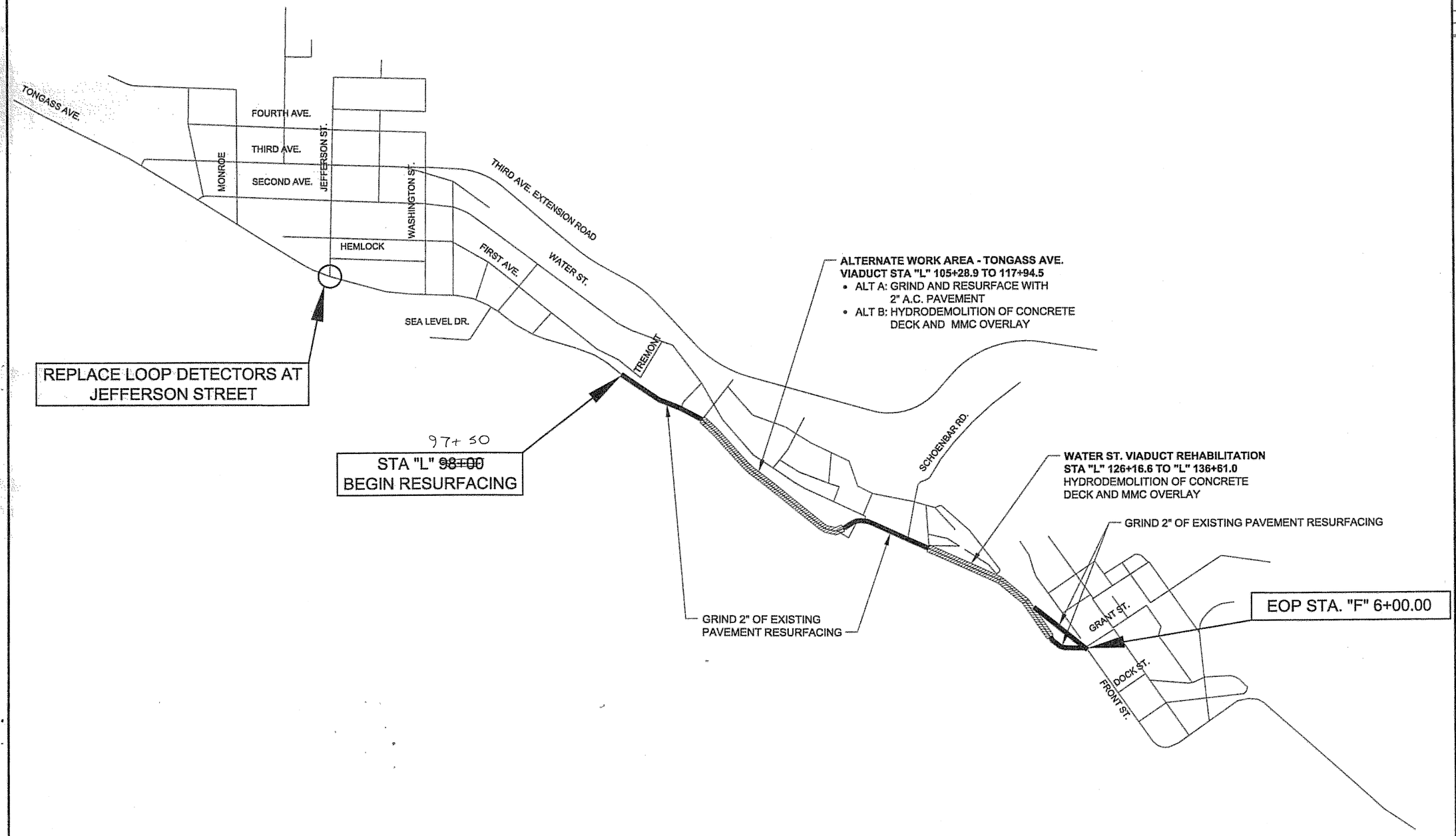
STATE OF ALASKA 49th REGISTERED PROFESSIONAL ENGINEER Lars R. Gregovich CE-8065 5/13/05

RECOMMENDED FOR APPROVAL:
REGIONAL PRE-CONSTRUCTION ENGINEER — DATE 5/13/05
PATRICK J. KEMP

APPROVED:
DIRECTOR, CONSTRUCTION & MAINTENANCE — DATE 5/12/05
GARY PAXTON

CERTIFIED TRUE & CORRECT AS-BUILT OF ACTUAL FIELD CONDITION:
CONSTRUCTION PROJECT MANAGER — DATE

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	68140 ~ IM-0902(28)	2005	A1	50



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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-TONGASS AVENUE
RESURFACING
PROJECT NO. 68140

PROJECT WORK MAP

DESIGNED BY:

STATE OF ALASKA 49th
Lars R. Gregovich
CE-8065
REGISTERED PROFESSIONAL ENGINEER
5.13.05

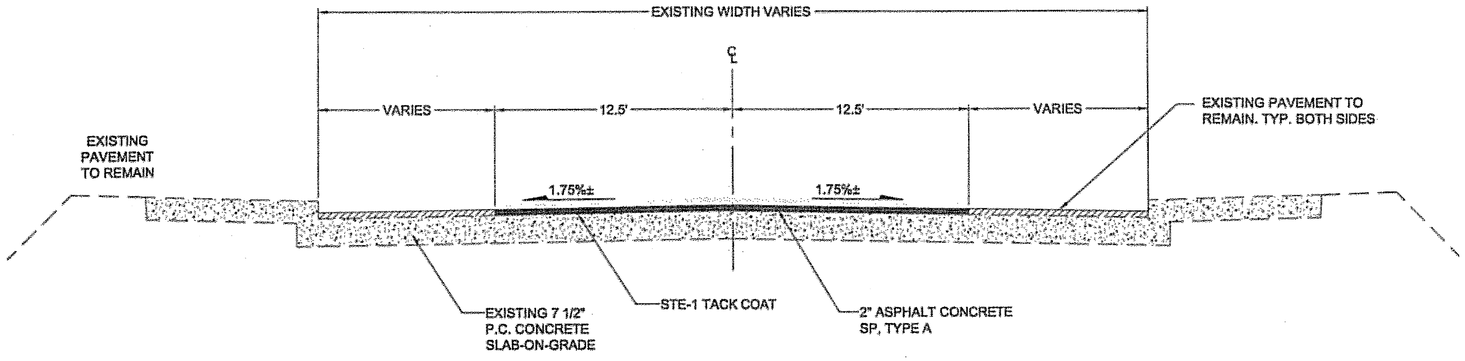
CHECKED BY: L. GREGOVICH
DRAWN BY: R. SNYDER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

KTN-TONGASS AVENUE RESURFACING

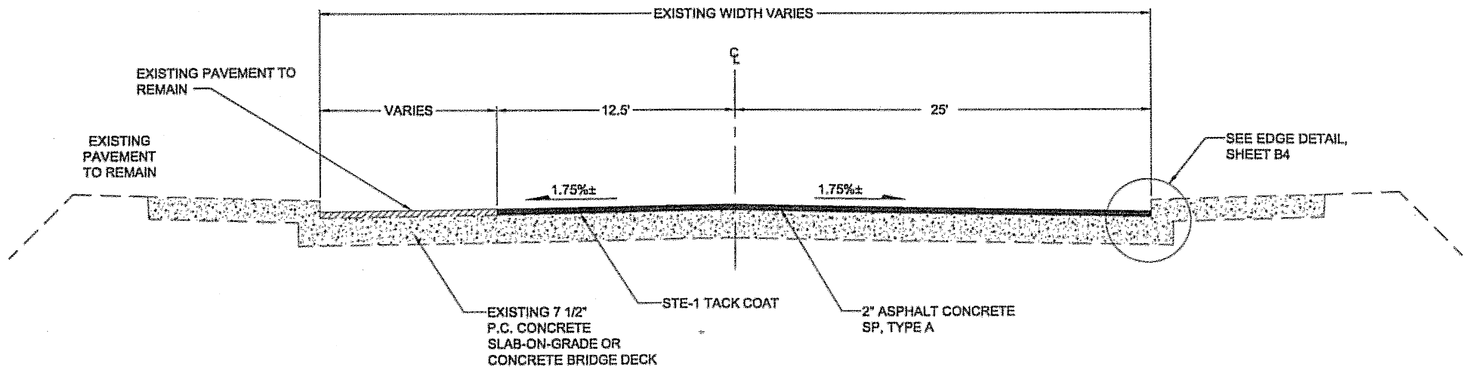
Project Work Map

PROJECT DESIGNATION NUMBER	
68140 ~ IM-0902(28)	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
A2	50



TYPICAL SECTION

BOP STA. "L" 98+00 TO STA. 105+28.9



TYPICAL SECTION

STA. "L" 117+94.5 TO STA. 126+16.6

DO NOT SCALE FROM THESE DRAWINGS.

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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-TONGASS AVENUE
RESURFACING
PROJECT NO. 68140

TYPICAL SECTIONS

F

DESIGNED BY: D. LESTER

STATE OF ALASKA
49th
Lars R. Gregovich
CE-8065
REGISTERED PROFESSIONAL ENGINEER
5-13-05

CHECKED BY: D. LESTER

DRAWN BY: L. ROBERTSON

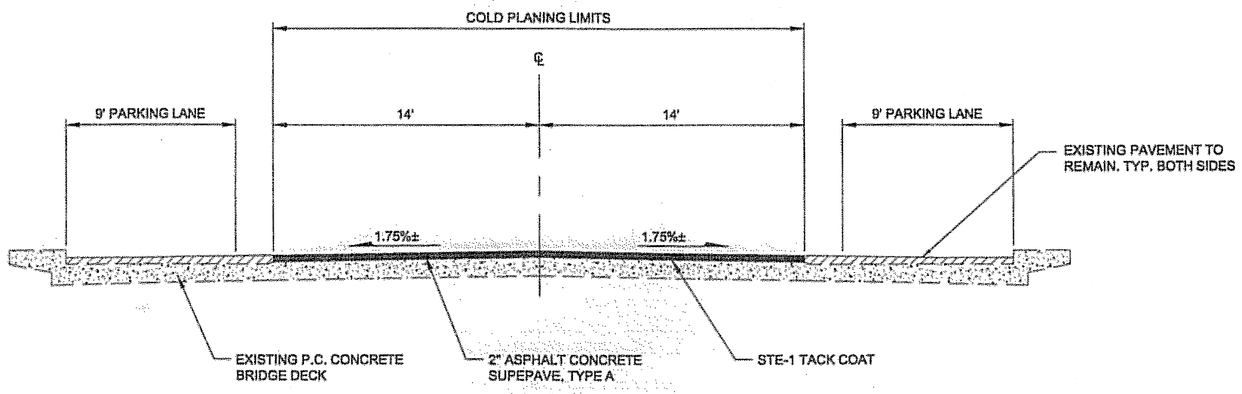
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

KTN-TONGASS AVENUE RESURFACING

TYPICAL SECTIONS

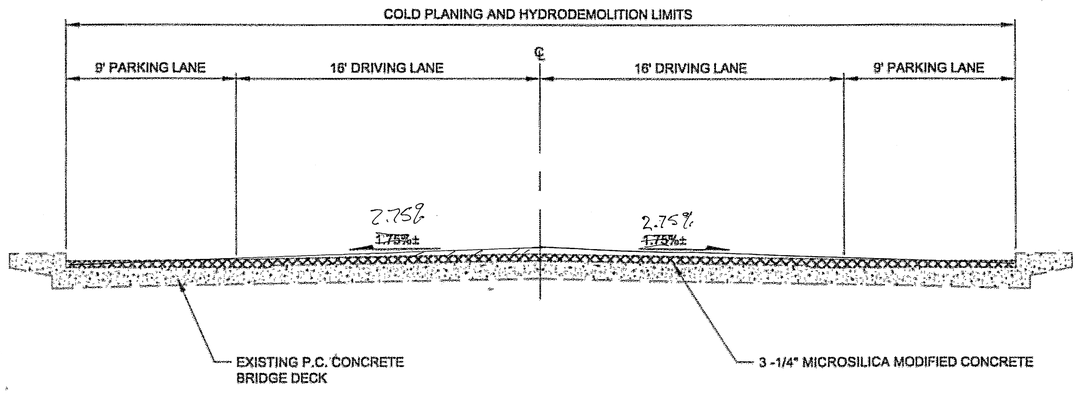
PROJECT DESIGNATION NUMBER
68140 ~ IM-0902(28)

STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
B1	50



TYPICAL SECTION - ALT. A

STA. "L" 105+28.9 TO STA. 117+94.5
(TONGASS AVENUE VIADUCT)



TYPICAL SECTION - ALT. B

STA. "L" 105+28.9 TO STA. 117+94.5
(TONGASS AVENUE VIADUCT)

NOTE:
SEE VIADUCT REPAIR DRAWINGS. TYPICAL SECTIONS G-DRAWINGS GOVERN.

DO NOT SCALE FROM THESE DRAWINGS.

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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-TONGASS AVENUE
RESURFACING
PROJECT NO. 68140

TYPICAL SECTIONS

DESIGNED BY: D. LESTER

STATE OF ALASKA
49th
Lars R. Gregovich
CE-8065
PROFESSIONAL ENGINEER
5.13.05

CHECKED BY: D. LESTER
DRAWN BY: L. ROBERTSON

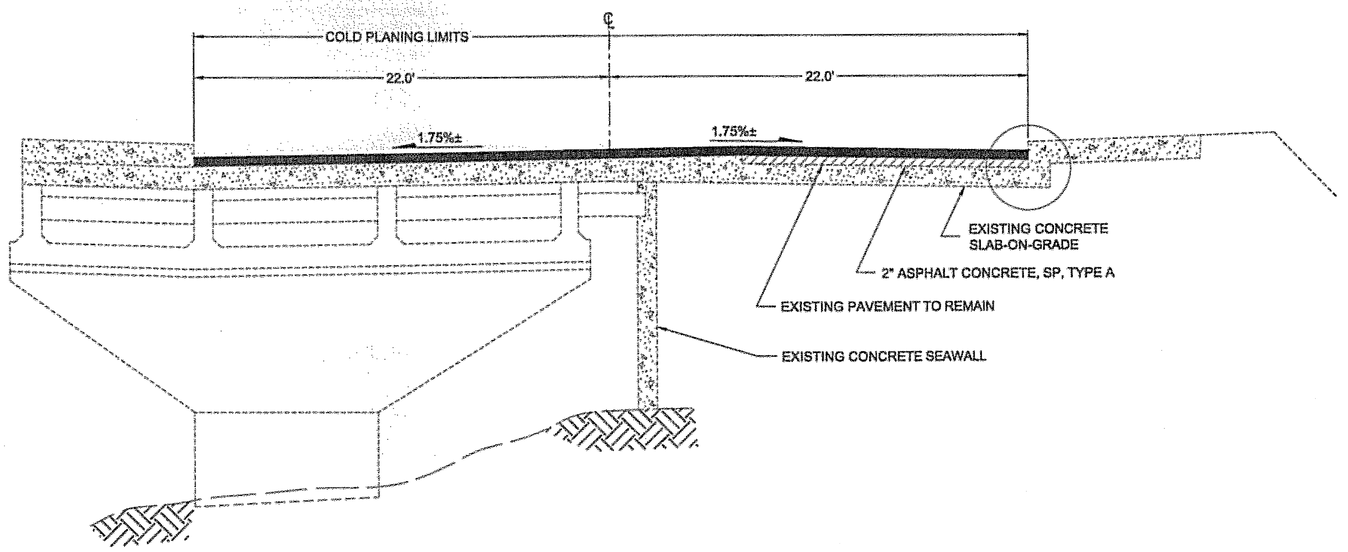
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

KTN-TONGASS AVENUE RESURFACING

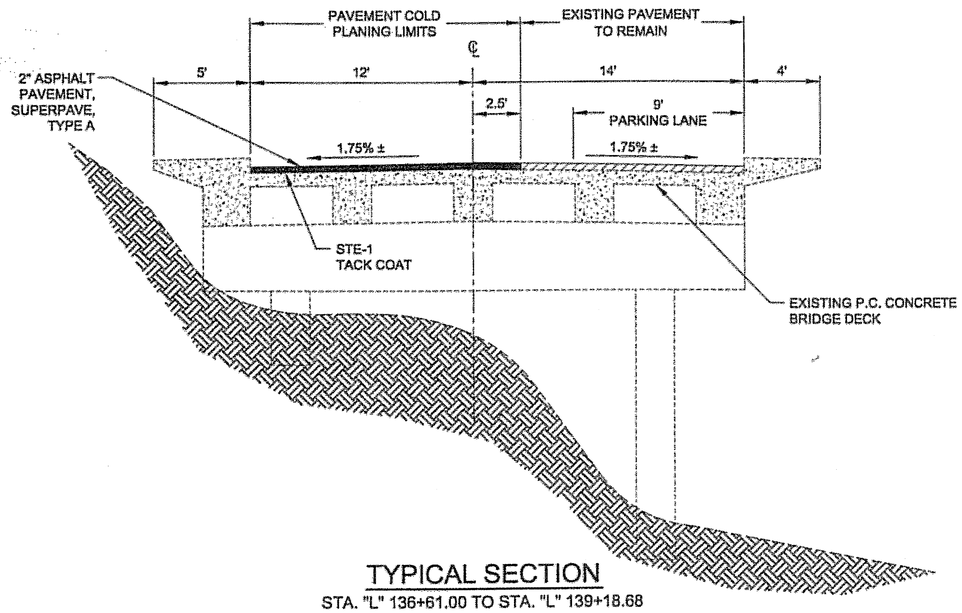
TYPICAL SECTIONS

PROJECT DESIGNATION NUMBER	
68140 ~ IM-0902(28)	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
B2	50

FOR TYPICAL SECTION
FROM "L" 126+16.7 TO 136+61.0
SEE SHEET G5



TYPICAL SECTION
STA. "F" 06+00 TO STA. "F" 06+75.94
(FRONT STREET)



TYPICAL SECTION
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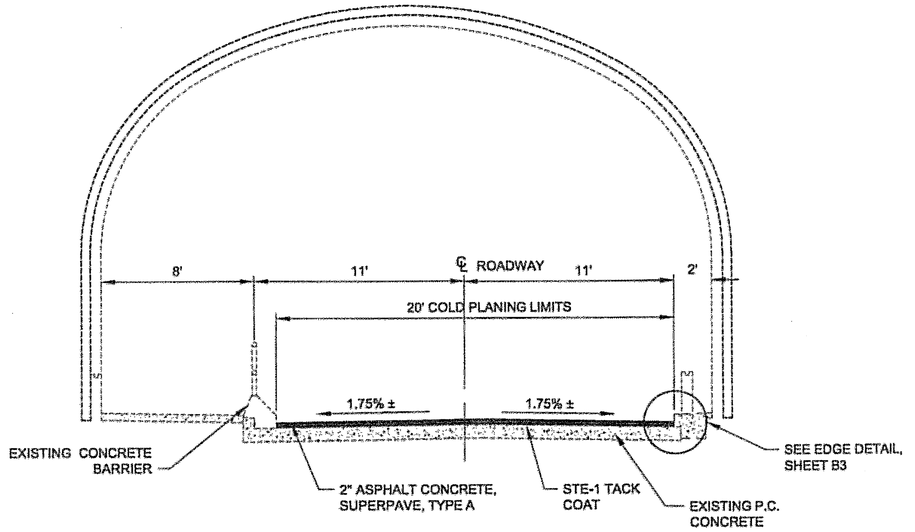
(WATER STREET VIADUCT)



TYPICAL SECTION
STA. "T" 235+09 TO STA. "T" 238+61.42
(TUNNEL)

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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-TONGASS AVENUE
RESURFACING
PROJECT NO. 68140

TYPICAL SECTIONS

DESIGNED BY: D. LESTER

STATE OF ALASKA
49th
Lars R. Gregovich
CE-6065
REGISTERED PROFESSIONAL ENGINEER
5/13/05

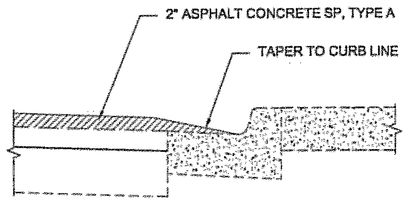
CHECKED BY: D. LESTER
DRAWN BY: L. ROBERTSON

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

KTN-TONGASS AVENUE RESURFACING

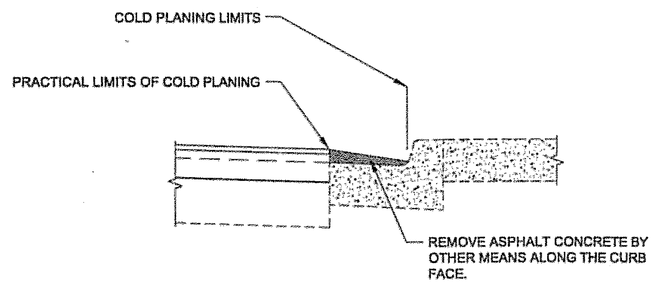
TYPICAL SECTIONS

PROJECT DESIGNATION NUMBER	
68140 ~ IM-0902(28)	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
B3	50



NOTE:
REMOVE EXISTING ASPHALT AND REPLACE WITH UNIFORM OVERLAY SURFACE TO CURB FACE.

EDGE SECTION



DETAIL A

COLD PLANING NOTES

1. AS-BUILT RECORDS TYPICALLY INDICATE AN EXISTING ASPHALT DEPTH OF 1 3/4" OVER A 7 1/2" CONCRETE SLAB. THE DEPTH OF COLD PLANING SHALL BE 2" AND WILL REQUIRE COLD PLANING IN SOME CONCRETE. THE EXCEPTION TO THIS WILL BE ON THE TONGASS AVENUE AND WATER STREET VIADUCTS WHERE ALL THE EXISTING ASPHALT CONCRETE PAVEMENT SHALL BE REMOVED DOWN TO THE BRIDGE VIADUCT DECK.
2. THE CONTRACTOR HAS THE OPTION TO USE OTHER TECHNIQUES TO REMOVE THE ASPHALT ON THE TONGASS AVENUE AND WATER STREET VIADUCTS.
3. COLD PLANING WIDTHS AND DEPTHS ARE SUBJECT TO MINOR REVISIONS BY THE ENGINEER.
4. ALL MATERIAL REMOVED DURING THE COLD PLANING SHALL BE STOCKPILED AT MILEPOST 15, NORTH TONGASS HIGHWAY TURNOUT.
5. COLD PLANING EQUIPMENT SHALL BE OPERATED IN SUCH A MANNER AS TO PREVENT DAMAGE TO MANHOLES, WATER VALVES, MONUMENTS, REBAR AND OTHER OBSTRUCTIONS.
6. TRAFFIC LOOP DETECTORS DAMAGED DURING THE COLD PLANING OPERATIONS SHALL BE REPLACED OR REPAIRED AT THE CONTRACTOR'S EXPENSE WITHIN 36 HOURS OF BEING DAMAGED. REPLACEMENT/REPAIRS ARE TO BE ACCORDING TO THE NEW INSTALLATION DESIGN AT JEFFERSON STREET. LOOPS CURRENTLY EXIST AT THE JEFFERSON AND WASHINGTON STREET INTERSECTIONS. SEE SECTION 660 OF THE SPECIAL PROVISIONS.
7. EXISTING TRAFFIC MARKINGS SHALL BE RESTORED IN ACCORDANCE WITH THE SPECIFICATIONS. SETTING CONTROL POINTS FOR REINSTALLING TRAFFIC MARKINGS SHALL BE COORDINATED WITH THE ENGINEER.
8. COLD PLANED MATERIAL AND OVERLAY OPERATIONS MUST BE CONTAINED SO THAT THE DEBRIS WILL NOT CONTAMINATE WATER BODIES.
9. PRIOR TO COLD PLANING OPERATIONS, INLETS OR CATCH BASINS THAT MIGHT BE AFFECTED SHALL BE SUFFICIENTLY BARRICADED SO AS TO PREVENT DEBRIS OR RUNOFF FROM PLUGGING THE DRAINAGE SYSTEM.
10. COLD PLANING OPERATIONS SHALL COMMENCE ON THE LOWER OF ROADWAY TO FACILITATE DRAINAGE.

GENERAL NOTES

1. EVERY EFFORT HAS BEEN MADE TO MAKE THE INFORMATION CONTAINED IN THESE DOCUMENTS COMPLETE AND ACCURATE. HOWEVER, PROJECT STATIONING IS BASED ON AS-BUILT RECORDS AND HAS NOT BEEN SURVEYED . THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE CONDITIONS AND DIMENSIONS.
2. SUMMARY TABLES ARE FOR BIDDING INFORMATION ONLY. ALL MANHOLES, MONUMENT CASES, VALVE BOXES, ETC. SHALL BE FIELD LOCATED BY THE CONTRACTOR PRIOR TO COLD PLANING OPERATIONS. SOME OF THESE MAY BE OVERLAID WITH ASPHALT PAVEMENT.
3. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SET CONTROL FOR THE PAVING, COLD PLANING, TEMPORARY AND PERMANENT TRAFFIC MARKINGS AND OTHER ITEMS NECESSARY TO COMPLETE THE WORK.
4. MINOR CHANGES IN THE TYPICAL SECTIONS MAY BE DIRECTED BY THE ENGINEER.
5. THE LIGHTED CROSSWALK AT THE INTERSECTION OF TONGASS AVENUE AND WHITECLIFF STREET IS TO BE REPLACED. SEE ITEM SHEET E3.
6. THERE MAY BE AREAS WHERE THE EXISTING SLAB-ON-GRADE NO LONGER EXISTS DUE TO UTILITY REPAIRS OR RECONSTRUCTION. THE SLAB-ON-GRADE MAY REQUIRE REPLACEMENT, AS DIRECTED BY THE ENGINEER, PRIOR TO RESURFACING WITH ASPHALT OR M.M.C.

DO NOT SCALE FROM THESE DRAWINGS.

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ADDENDUM NUMBER

ATTACHMENT NUMBER

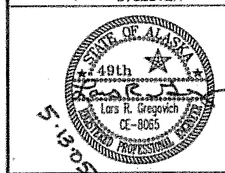
RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-TONGASS AVENUE
RESURFACING
PROJECT NO. 68140

TYPICAL SECTIONS

DESIGNED BY: D. LESTER



CHECKED BY: D. LESTER
DRAWN BY: L. ROBERTSON

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

KTN-TONGASS AVENUE
RESURFACING

TYPICAL SECTIONS

PROJECT DESIGNATION NUMBER	
68140 ~ IM-0902(28)	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
B4	50

ESTIMATE OF QUANTITIES - BASIC BID

ITEM NO	PAY ITEM	PAY UNIT	QUANTITY	
401 (1)	ASPHALT CONCRETE, SP, TYPE A	TON	~~985~~ 1018.99	
401 (2)	ASPHALT CEMENT, GRADE PG 64-28	TON	~~50~~ 58.08	
401 (3)	ASPHALT PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED	
402 (1)	STE-1 ASPHALT FOR TACK COAT	TON	3.34	
408 (1)	PAVEMENT COLD PLANING	SQUARE YARD	~~7450~~ 13466.09	
501 (10)	EXPANSION JOINT - POURABLE	LINEAR FOOT	~~2360~~ 2719.7	
509 (1)	MMC OVERLAY	CUBIC YARD	~~482~~ 491.5	
509 (2)	OVERHEAD PATCHES	CONTINGENT SUM	ALL REQUIRED	
~~510 (1)~~	~~REMOVAL OF CONCRETE BRIDGE DECK~~	~~SQUARE YARD~~	~~5560~~	Deleted by C.01
514 (1)	ASBESTOS REMOVAL AND DISPOSAL	LINEAL FOOT	~~4960~~ 5868.0	
604 (4)	ADJUST EXISTING MANHOLE	EACH	~~22~~ 15	
615 (1)	STANDARD SIGN	SQUARE FOOT	~~217.4~~ 198.05	
627 (10)	ADJUSTMENT OF VALVE BOX	EACH	~~134~~ 42	
640 (1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED	
640 (4)	WORKER MEALS AND LODGING, OR PER DIEM	LUMP SUM	ALL REQUIRED	
641 (1)	EROSION AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED	
641 (3)	TEMPORARY EROSION AND POLLUTION CONTROL	LUMP SUM	ALL REQUIRED	
642 (1)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED	
642 (11)	ADJUST EXISTING MONUMENT CASE	EACH	~~7~~ 4	
642 (13)	BRIDGE SURVEY	LUMP SUM	ALL REQUIRED	
643 (2)	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED	
643 (3)	PERMANENT CONSTRUCTION SIGNS	LUMP SUM	ALL REQUIRED	
643(15)	FLAGGING	CONTINGENT SUM	ALL REQUIRED	
643(23)	TRAFFIC PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED	
643(25)	TRAFFIC CONTROL	CONTINGENT SUM	ALL REQUIRED	
643(29)	PUBLIC NOTICES	CONTINGENT SUM	ALL REQUIRED	
~~643(31)~~	~~PEDESTRIAN SPLATTER BARRIER~~	~~LINEAR FOOT~~	~~1000~~	Deleted by C.0
644 (6)	VEHICLES	LUMP SUM	ALL REQUIRED	
646 (1)	CPM SCHEDULING	LUMP SUM	ALL REQUIRED	
660 (14)	LIGHTED CROSSWALK	LUMP SUM	ALL REQUIRED	
~~660 (15)~~	~~TRAFFIC LOOP REPLACEMENT~~	~~LUMP SUM~~	~~ALL REQUIRED~~	Deleted by C.0
~~660 (16)~~	~~TRAFFIC COUNTER LOOP INSTALLATION~~	~~LUMP SUM~~	~~ALL REQUIRED~~	Deleted by C.0
~~670 (10)~~	~~METHYL METHACRYLATE PAVEMENT MARKINGS~~	~~LUMP SUM~~	~~ALL REQUIRED~~	Deleted by C.0
	Change Order			
510(1c)	Removal of Concrete Bridge Deck	Square Yard	12,621.80	
510(1D)	Joint Shielding For Hydro Demolition	Linear Foot	119.0	
604(4a)	Manhole Repair @ sta 125+25	Lump Sun	All Required	
660(15a)	Traffic loop Replacement	Lump Sum	All Required	
104(1)	Extended Field Overhead	Lump Sum	All Required	
509(3)	Move Bidwell to Talbots	Lump Sum	All Required	
509(4)	mmc Crack Sealing	Lump Sum	All Required	
509(5)	mmc Test Batch#20	Lump Sum	All Required	
670(1)	Painted Traffic Markings	Lump Sum	All Required	
640(4)a	Worker meals and Lodging	Lump Sum	All Required	
404(1)	Seal Coat	Square yard	4096.15	
105(1)	Claim Settlement 2006	lump sum	All Required	
105(2)	Claim Settlement 2007	Lump sum	All Required	

BASIS OF ESTIMATE

ITEM NO	PAY ITEM	QUANTITY
401 (1)	ASPHALT CONCRETE, SP, TYPE A	120 LB/SY/IN
401 (2)	ASPHALT CEMENT, GRADE PG 64-28	6% OF ITEM 401 (1)
402 (1)	STE - 1 ASPHALT FOR TACK COAT	0.1 GAL/SY, 243 GAL/TON

ALTERNATE A

ITEM NO	PAY ITEM	PAY UNIT	QUANTITY
401 (1A)	ASPHALT CONCRETE PAVEMENT, SP, TYPE A	TON	530
401 (2A)	ASPHALT CEMENT, GRADE PG 64-28	TON	32
402 (1A)	STE-1 ASPHALT FOR TACK COAT	TON	2
408 (1A)	PAVEMENT COLD PLANING	SQUARE YARD	4000
604 (4A)	ADJUST EXISTING MANHOLE	EACH	5
627 (10A)	ADJUSTMENT OF VALVE BOX	EACH	9
640 (4A)	WORKER MEALS AND LODGING, OR PER DIEM	LUMP SUM	ALL REQUIRED
641 (3A)	EROSION AND POLLUTION CONTROL	LUMP SUM	ALL REQUIRED
642 (1A)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED
642 (11A)	ADJUST EXISTING MONUMENT CASE	EACH	5
643 (2A)	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED
643 (15A)	FLAGGING	CONTINGENT SUM	ALL REQUIRED
643 (25A)	TRAFFIC CONTROL	CONTINGENT SUM	ALL REQUIRED
670 (10A)	METHYL METHACRYLATE PAVEMENT MARKINGS	LUMP SUM	ALL REQUIRED

ALTERNATE B

ITEM NO	PAY ITEM	PAY UNIT	QUANTITY	
408 (1B)	PAVEMENT COLD PLANING	SQUARE YARD	~~7165~~ 7042.7	
501 (09B)	EXPANSION JOINT-STEEL	LINEAR FOOT	150	
501 (10B)	EXPANSION JOINT - POURABLE	LINEAR FOOT	~~1130~~ 1521.5	
509 (1B)	MMC OVERLAY	CUBIC YARD	~~633~~ 723.0	
509 (2B)	OVERHEAD PATCHES	CONTINGENT SUM	ALL REQUIRED	
~~510 (1B)~~	~~REMOVAL OF CONCRETE BRIDGE DECK~~	~~SQUARE YARD~~	~~7165~~	Deleted by C.0 1
514 (1B)	ASBESTOS REMOVAL AND DISPOSAL	LINEAR FOOT	~~2590~~ 1803	
604 (4B)	ADJUST EXISTING MANHOLE	EACH	~~7~~ 3	
604 (8B)	FIBER REINFORCED MANHOLE	EACH	2	
627 (10B)	ADJUSTMENT OF VALVE BOX	EACH	~~11~~ 15	
640 (4B)	WORKER MEALS AND LODGING, OR PER DIEM	LUMP SUM	ALL REQUIRED	
641 (3B)	EROSION AND POLLUTION CONTROL	LUMP SUM	ALL REQUIRED	
642 (1B)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED	
642 (11B)	ADJUST EXISTING MONUMENT CASE	EACH	~~5~~ 4	
642 (13B)	BRIDGE SURVEY	LUMP SUM	ALL REQUIRED	
643 (2B)	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED	
643 (15B)	FLAGGING	CONTINGENT SUM	ALL REQUIRED	
643 (25B)	TRAFFIC CONTROL	CONTINGENT SUM	ALL REQUIRED	
~~643 (31B)~~	~~PEDESTRIAN SPLATTER BARRIER~~	~~LINEAR FOOT~~	~~1000~~	Deleted by C.0
~~670 (10B)~~	~~METHYL METHACRYLATE PAVEMENT MARKINGS~~	~~LUMP SUM~~	~~ALL REQUIRED~~	Deleted by C.0

DO NOT SCALE FROM THESE DRAWINGS.

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PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: C1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-TONGASS AVENUE
RESURFACING
PROJECT NO. 68140

ESTIMATE OF QUANTITIES

DESIGNED BY: DARRYL LESTER

STATE OF ALASKA
49th
Lora R. Gregovich
CE-8065
REGISTERED PROFESSIONAL ENGINEER
5.13.05

CHECKED BY: L. GREGOVICH
DRAWN BY: L. ROBERTSON

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

KTN-TONGASS AVENUE RESURFACING

Estimate of Quantities

PROJECT DESIGNATION NUMBER
68140 ~ IM-0902(28)

STATE	YEAR
ALASKA	2005

SHEET NUMBER	TOTAL SHEETS
C1	50

604 (4) ADJUST EXISTING MANHOLE

NUMBER	STATION	OFFSET LEFT	OFFSET RIGHT	TYPE	REMARKS
1	59+05		17.6	SS	
2	59+06	5.5			
3	61+25		15.2		
4	63+21	14.5			
5	63+46		11.0		
6	63+46	10.2			
7	65+33		12.1		
8	67+23		13.2		
9	67+37	13.5			
10	69+33	24.5			
11	69+46		14.6		
12	71+45	24.6			
13	71+53	12.5			
14	71+66	2.8			
15	71+69		7.9		
16	73+70	16.0			
17	73+72		15.6		
18	75+11	14.4			
19	75+14		10.2		
20	76+32		16.2		
21	79+50		10.9		
22	82+37		7.3		
23	82+48	16.2			
24	83+13	23.1			
25	84+50		5.8		
26	86+08	9.9			
27	87+75		3.8		
28	87+72		10.6		
29	87+86		2.0		
30	90+67		13.2		
31	90+94	18.2			
32	93+57		5.9		
33	95+56		6.3		
34	97+58		6.7		
	99+60	2.8			
	106+81	9.9			UNEXPOSED, LEAVE RECESSED
	108+60		8.8		UNEXPOSED, LEAVE RECESSED
	111+39		8.2		UNEXPOSED, LEAVE RECESSED
	113+04		3.8		RECESS AND ABANDON
	115+40		6.0		UNEXPOSED, LEAVE RECESSED
	116+85		19.1		RECESS AND ABANDON
	117+65		16.8		RECESS AND ABANDON
	118+47		20.8		
	119+76	2.1			
	120+06	2.8			
	123+03	2.4			
	128+21	10.4			UNEXPOSED, LEAVE RECESSED
	130+23	11.2			UNEXPOSED, LEAVE RECESSED
	130+76	7.4			
	130+97		6.3		
	132+18	10.7			
	134+34	16.3			
	134+36		0.7		
	"F" 6+53		23.8		
	"F" 6+51		6.6		

N.I.C.

NOTE

ALL STATIONS ARE "L" LINE UNLESS NOTED OTHERWISE.

642 (11) ADJUST EXISTING MONUMENT CASE

MONUMENT NUMBER	STATION	OFFSET (FT.) LEFT	OFFSET (FT.) RIGHT	
1	63+53.26	1.12		
2	68+97.62	1.1		
3	71+39.67	1.1		
4	73+88.1		30.32	
5	76+16.5		3.83	
6	79+43		0.47	
7	82+36.58		0.45	
8	85+83.80	16.01		
9	88+02.16	20.90		
10	90+78.38		20.61	
11	90+78.52		10.62	
12	95+23.89		10.93	
	99+71.85		8.14	
	99+97.81		3.90	
	100+78.95	0.04		
	103+61.14	1.54		
	106+30.60	10.01		
	108+64.61		0.96	
	110+72.36	0.42		
	113+13.08	0.99		
	116+54.85	0.99		
	123+15.37	0.95		
	134+91.94	15.47		
	6+50.87 "F"		12.58	

N.I.C.

NOTE

ALL STATIONS ARE "L" LINE UNLESS NOTED OTHERWISE.

MONUMENT NOTES

ALL MONUMENTS THAT WILL BE DISTURBED OR BURIED WILL BE REFERENCED AND RE-ESTABLISHED IN THEIR ORIGINAL POSITION AND A RECORD OF MONUMENT FILED.

BASIS OF HORIZONTAL CONTROL

THE BASIS OF HORIZONTAL CONTROL FOR THIS PROJECT IS THE BEARING OF N 62°08'43" W FROM DOT/PF CONTROL MONUMENT TW-9, A 2" ALUMINUM SURVEY CAP STAMPED "TW-9 1993", GROUTED INTO THE SIDEWALK AT THE NE CORNER OF THE INTERSECTION OF TONGASS AVE. AND MADISON WITH PROJECT COORDINATES OF N. 90669.365, E. 100048.842 AND TW-10, A 2" ALUMINUM SURVEY CAP STAMPED "TW-10 1993", GROUTED INTO THE NORTH SIDEWALK OF TONGASS AVE. IN FRONT OF THE KPC STEPS AT 3RD AND TONGASS, WITH PROJECT COORDINATES OF: N. 91288.600, E. 98877.160.

PROJECT CONTROL MONUMENTS

MON.	NORTHING	EASTING	ELEVATION	STATION	OFFSET	DESCRIPTION
TA-3	88089.329	105907.172	25.66	137+99.47	28.13_RT	ALUM. CAP MON.
TA-7	88706.323	105107.349	22.24	127+72.99	28.63_RT	ALUM. CAP MON.
TA-9	88848.003	104726.357	21.70	123+66.50	28.13_RT	ALUM. CAP MON.
TA-10	88928.962	104507.903	21.63	121+33.53	28.10_RT	ALUM. CAP MON.
TA-2	87994.366	106124.435	32.65	"F"4+84.04	24.53_LT	ALUM. CAP MON.

DO NOT SCALE FROM THESE DRAWINGS.

PATH:
Q:\Ktn\68140\Planset\D-Summary.dwg
Fri, 13/May/05 09:01AM dastevens
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: D1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-TONGASS AVENUE
RESURFACING
PROJECT NO. 68140

SUMMARY SHEETS

DESIGNED BY:

STATE OF ALASKA 49th
Lars R. Gregovich
CE-8065
REGISTERED PROFESSIONAL ENGINEER
5-13-05

CHECKED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

KTN-TONGASS AVENUE RESURFACING

SUMMARY SHEETS

PROJECT DESIGNATION NUMBER
68140 ~ IM-0902(28)

STATE	YEAR
ALASKA	2005

SHEET NUMBER	TOTAL SHEETS
D1	50

627 (10) ADJUSTMENT OF VALVE BOX

NUMBER	STREET	STATION	OFFSET (FT) LEFT	OFFSET (FT) RIGHT	TYPE	REMARKS
1	TONGASS	59+21		5.4	WATER	FLUSH
2	" "	59+46		4.0	" "	" "
3	" "	59+49		2.0	" "	" "
4	" "	59+55		3.9	" "	" "
5	" "	59+79		11.5	" "	" "
6	TONGASS	60+12		3.6	WATER	FLUSH
7	" "	60+21		3.4	" "	RECESSED
8	" "	60+56		3.4	" "	FLUSH
9	" "	61+03		0.1	" "	" "
10	" "	61+18		3.2	" "	" "
11	TONGASS	61+35		3.0	WATER	" "
12	" "	61+58		0.2	" "	" "
13	" "	62+08		2.9	" "	FLUSH
14	" "	62+46	0.5		" "	" "
15	" "	62+54		2.8	" "	" "
16	TONGASS	63+49		2.5	WATER	" "
17	" "	64+23		2.8	" "	" "
18	" "	64+27	1.1		" "	FLUSH
19	" "	64+50	15.4		" "	" "
20	" "	64+51	1.1		" "	" "
21	TONGASS	65+59		3.9	WATER	" "
22	" "	65+99		3.8	" "	" "
23	" "	67+28		3.2	" "	FLUSH
24	" "	67+81	1.2		" "	FLUSH
25	" "	68+78		3.6	" "	RECESSED
26	TONGASS	69+74		2.8	WATER	FLUSH
27	" "	69+85		3.0	" "	" "
28	" "	69+87	2.4		" "	" "
29	" "	69+89		2.9	" "	" "
30	" "	70+56		2.6	" "	" "
31	TONGASS	70+70		5.7	WATER	FLUSH
32	" "	71+62		2.9	WATER	" "
33	" "	71+66		10.6	SEWER	" "
34	" "	71+70		6.[illegible]	WATER	" "
35	" "	71+96		5.6	" "	" "
36	TONGASS	71+99		5.6	" "	FLUSH
37	" "	72+98		2.9	" "	FLUSH
38	" "	73+42		2.9	" "	FLUSH
39	" "	74+02		5.2	WATER	RECESSED
40	" "	75+14	4.7		" "	RECESSED
41	TONGASS	75+32			" "	FLUSH
42	" "	75+85	7.6		" "	" "
43	" "	76+66	[illegible]		" "	" "
44	" "	76+95	7.8		WATER	" "
45	" "	78+06	2.8		" "	" "
46	TONGASS	78+13	2.6		" "	FLUSH
47	" "	78+23	4.5		" "	" "
48	" "	79+20	1.4		" "	" "
49	" "	79+23	3.5		WATER	" "
50	" "	79+25	1.3		" "	" "
51	TONGASS	80+62	3.6		" "	FLUSH
52	" "	80+68		2.7	" "	" "
53	" "	81+58	4.1		" "	" "
54	" "	82+27	2.7		WATER	" "
55	" "	82+62	4.8		" "	" "
56	TONGASS	84+57	3.9		" "	FLUSH
57	" "	84+60	5.5		" "	FLUSH
58	" "	85+01	3.2		" "	FLUSH
59	" "	85+61	4.7		WATER	RECESSED
60	" "	86+42	5.8		" "	FLUSH
61	TONGASS	87+04	7.7		" "	FLUSH
62	" "	87+15	8.0		" "	RECESSED
63	" "	87+27	8.6		" "	FLUSH
64	" "	87+74	11.5		WATER	" "
65	" "	87+80		5.5	SEWER	" "
66	TONGASS	87+83	8.9		WATER	" "
67	" "	87+84		9.6	SEWER	" "
68	" "	88+30	8.8		WATER	FLUSH
69	" "	88+35	0.6		" "	" "
70	" "	88+41	0.7		" "	" "
71	TONGASS	88+57	7.3		" "	" "
72	" "	88+62		0.3	" "	" "
73	" "	88+88	5.7		WATER	FLUSH
74	" "	89+08	5.5		" "	FLUSH
75	" "	89+36	5.4		" "	FLUSH
76	TONGASS	89+89	5.6		" "	RECESSED
77	" "	89+98	9.0		" "	RECESSED
78	" "	90+86	7.6		WATER	FLUSH
79	" "	90+89	9.1		" "	" "
80	" "	90+92	6.0		" "	" "
81	TONGASS	91+10	10.0		" "	" "
82	" "	91+82	6.4		" "	" "
83	" "	92+00	10.1		WATER	FLUSH
84	" "	92+73	10.5		WATER	FLUSH
85	TONGASS	92+76	10.5		WATER	FLUSH

N.I.C.

627 (10) ADJUSTMENT OF VALVE BOX

NUMBER	STREET	STATION	OFFSET (FT) LEFT	OFFSET (FT) RIGHT	TYPE	REMARKS
82	TONGASS	91+82	6.4		WATER	FLUSH
83	" "	92+00	10.1		" "	" "
84	" "	92+73	10.5		" "	" "
85	" "	92+76	10.5		" "	" "
86	" "	93+33	9.5		" "	" "
87	TONGASS	93+66	9.4		WATER	FLUSH
88	" "	93+83	5.8		" "	" "
89	" "	94+07	5.7		" "	" "
90	" "	94+33	7.0		" "	" "
91	" "	94+37	[illegible]		" "	" "
92	TONGASS	94+97	8.0		WATER	FLUSH
93	" "	95+50	5.6		" "	" "
94	" "	95+69	13.9		" "	" "
95	" "	95+76	14.0		" "	" "
96	" "	95+82	9.9		" "	" "
97	TONGASS	95+97	17.4		WATER	FLUSH
98	" "	96+23	9.7		" "	" "
99	" "	96+24	16.8		" "	" "
100	" "	97+48	17.1		" "	" "
101	" "	97+51	16.9		" "	" "
102	TONGASS	98+91	18.6		WATER	FLUSH
103	" "	98+96	16.7		WATER	" "
104	" "	100+26	15.6		WATER	" "
105	" "	100+49		3.2	WATER	" "
106	" "	100+63		15.7	SEWER	" "
107	TONGASS	100+63		13.0	SEWER	FLUSH
108	" "	100+74		17.0	SEWER	" "
109	" "	100+74		14.1	SEWER	" "
110	" "	100+77		5.3	WATER	" "
111	" "	107+41		2.2	" "	" "
112	TONGASS	108+00		3.1	" "	FLUSH
113	" "	108+03		3.0	" "	" "
114	" "	109+44		3.9	" "	" "
115	" "	111+66		2.1	WATER	" "
116	" "	112+63		4.3	" "	" "
117	TONGASS	113+23		8.9	" "	FLUSH
118	" "	113+63		4.3	" "	" "
119	" "	113+75		2.9	" "	" "
120	" "	113+86		2.7	WATER	" "
121	" "	115+67		2.0	WATER	" "
122	TONGASS	117+81		18.7	WATER	FLUSH
123	TONGASS	117+91		21.5	SEWER	" "
124	TONGASS	118+11		19.9	WATER	" "
125	TONGASS	118+48		24.8	SEWER	" "
126	TONGASS	119+95	21.2		WATER	" "
127	WATER	120+20	19.3		" "	FLUSH
128	" "	120+25	16.5		" "	" "
129	" "	120+38	21.2		" "	" "
130	" "	120+89	20.3		" "	" "
131	" "	120+96	17.9		WATER	" "
132	WATER	121+70	20.8		" "	FLUSH
133	" "	121+74	16.5		" "	" "
134	" "	121+84	18.3		" "	" "
135	" "	122+46	18.9		" "	" "
136	" "	122+85	19.0		WATER	" "
137	WATER	122+88	16.5		WATER	FLUSH
138	" "	122+92	19.2		WATER	" "
139	" "	122+96		16.7	WATER	" "
140	" "	123+16		7.8	SEWER	" "
141	" "	123+20		1.2	" "	" "
142	WATER	123+23		7.1	" "	FLUSH
143	" "	123+26		2.7	SEWER	" "
144	" "	128+47		15.0	WATER	" "
145	" "	130+44		15.5	" "	" "
146	" "	130+46		11.8	" "	" "
147	WATER	130+49		15.3	" "	FLUSH
148	" "	131+00		15.3	WATER	" "
149	" "	131+02		10.3	SEWER	" "
150	" "	131+02		1.6	" "	" "
151	" "	131+11		1.6	" "	" "
152	WATER	131+11		10.1	SEWER	FLUSH
153	WATER	132+98		12.4	WATER	" "
154	WATER	133+18		13.0	" "	" "
155	WATER	135+30		2.2	" "	" "
156	FRONT	6+51		27.6	" "	" "
157	" "	6+45		30.1	" "	FLUSH
158	" "	6+44	11.3		WATER	" "
159	" "	6+39		29.9	WATER	" "
160	" "	6+39		12.3	WATER	" "
161	FRONT	6+36	6.7		WATER	FLUSH

N.I.C.

DO NOT SCALE FROM THESE DRAWINGS.

PATH:
Q:\Ktn\68140\Planset\D-Summary.dwg
Tue, 10/May/05 10:09AM dostevens
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: D2

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-TONGASS AVENUE
RESURFACING
PROJECT NO. 68140

SUMMARY SHEETS

DESIGNED BY:

STATE OF ALASKA
49th
Lars R. Gregovich
CE-8065
REGISTERED PROFESSIONAL ENGINEER
5.12.05

CHECKED BY:

DRAWN BY:

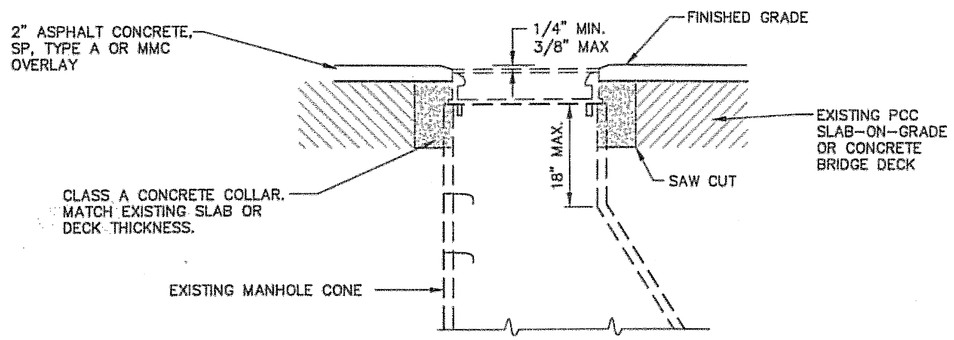
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

KTN-TONGASS AVENUE RESURFACING

SUMMARY SHEETS

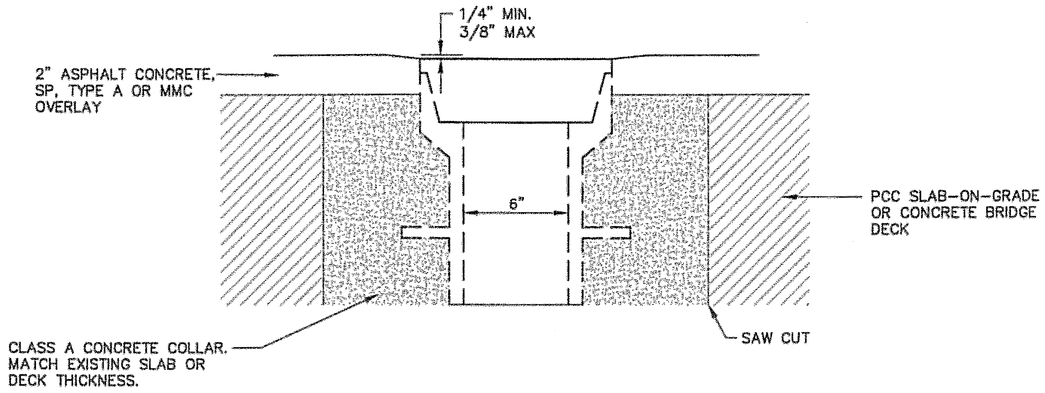
PROJECT DESIGNATION NUMBER
68140 ~ IM-0902(28)

STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
D2	50

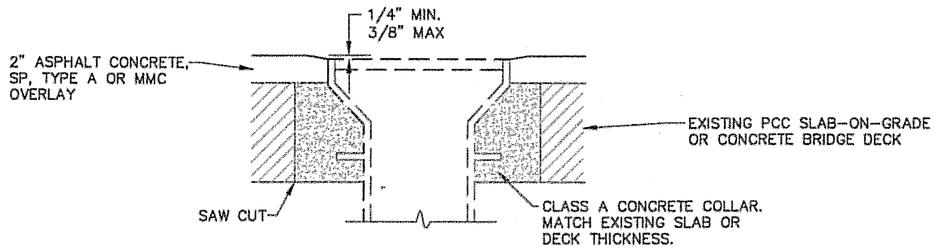


MANHOLE ADJUSTMENT DETAIL

1. ALL ADJUSTMENTS SHALL BE MADE BELOW THE FRAME ON THE MANHOLE CONE.
2. REMOVE EXISTING CONCRETE, BRICKS AND/OR ADJUSTMENT RINGS, USE HDPE OR RUBBER COMPOSITION ADJUSTING RINGS PER SECTION 604-2.01.



MONUMENT ADJUSTMENT DETAIL



VALVE BOX ADJUSTMENT

DO NOT SCALE FROM THESE DRAWINGS.

PATH: Q:\Ktn\68140\Planset\E-Det.dwg
Fri, 13/May/05 11:23AM dcstevens
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: E1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-TONGASS AVENUE
RESURFACING
PROJECT NO. 68140

ADJUSTMENT DETAILS

DESIGNED BY: D. LESTER

STATE OF ALASKA
49th
Lars R. Gregovich
CE-8065
REGISTERED PROFESSIONAL ENGINEER
5.13.05

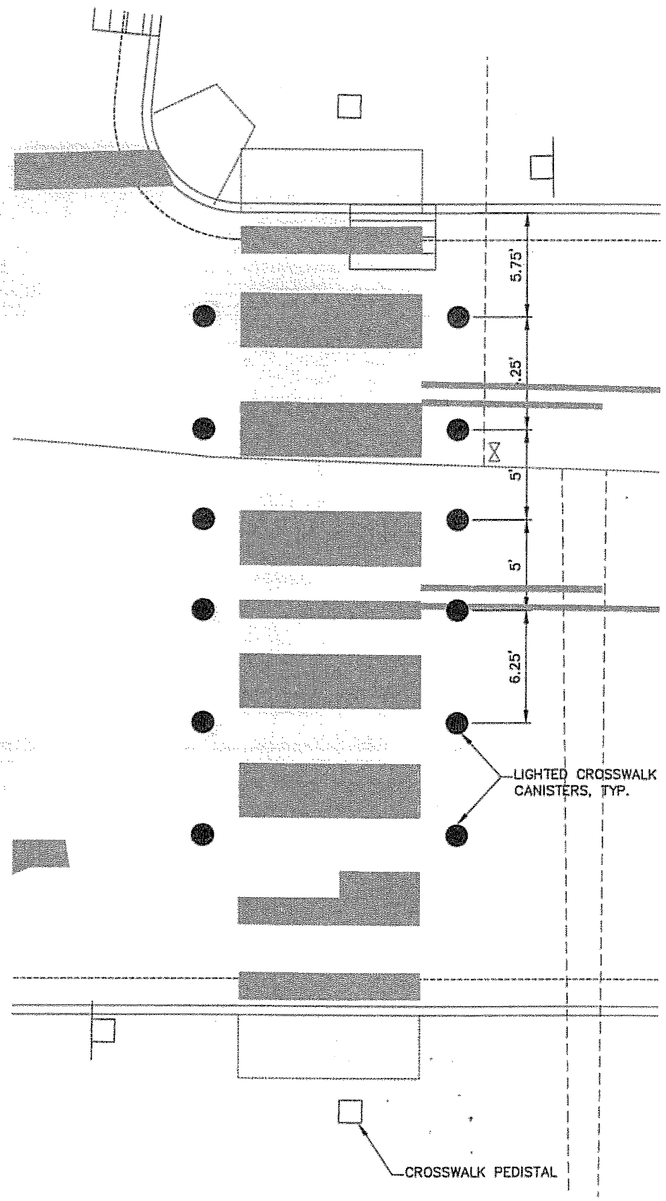
CHECKED BY: D. LESTER
DRAWN BY: L. ROBERTSON

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

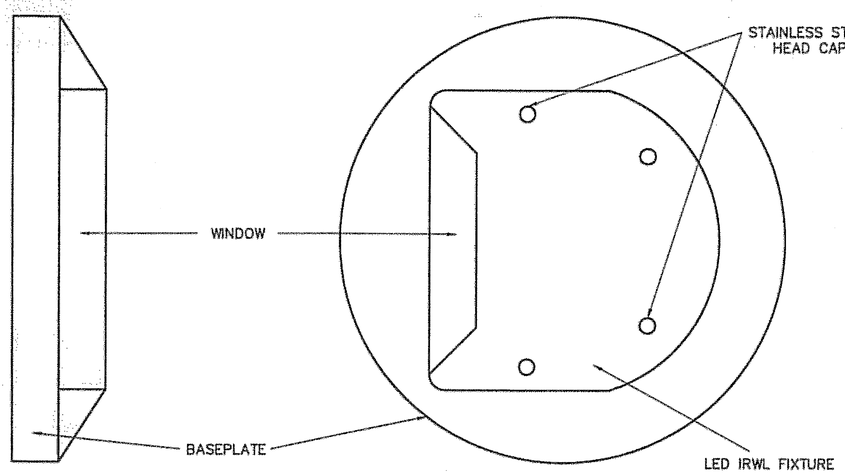
KTN-TONGASS AVENUE RESURFACING

ADJUSTMENT DETAILS

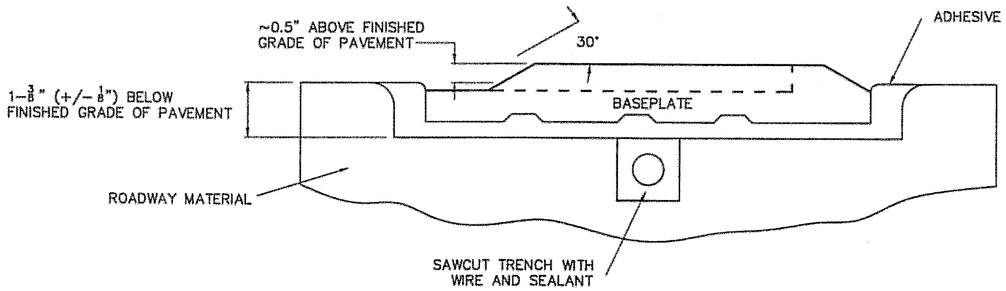
PROJECT DESIGNATION NUMBER	
68140 ~ IM-0902(28)	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
E1	50



TONGASS AVE. - GRANT ST. INTERSECTION
(LIGHTED CROSSWALK)



IN-ROADWAY WARNING SIGNAL LIGHT ASSEMBLY



IN-ROADWAY WARNING SIGNAL LIGHT UNIT SAWCUT CROSS-SECTION

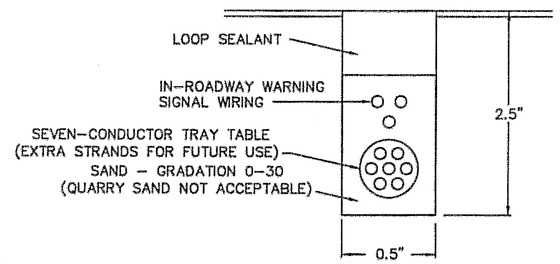
NOTE: LED BASEPLATE MUST BE 14" SNOW PLOW RESISTANT MODEL.

LIGHTED CROSSWALK NOTES:

1. CANISTER LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VARIFY LOCATIONS AND REPLACE IN SAME POSITIONING.
2. CONTRACTOR SHALL REPLACE COMPONENTS THAT ARE DAMAGED DURING REMOVAL AND INSTALLATION THAT ARE NOT OTHERWISE SPECIFIED FOR REPLACEMENT.
3. THE CONTRACTOR SHALL NOTE THE FOCAL POINT ANGLE AND DISTANCE FOR THE SYSTEM'S WARNING SIGNAL ALIGNMENT AND MAINTAIN THE SAME ALIGNMENT UPON INSTALLATION.
4. ALL LIGHTED CROSSWALK WORK IS COVERED UNDER ITEM 660 (14).
5. USE LIGHTGUARD SYSTEMS, INC. PRODUCTS OR EQUIVALENT COMPONENTS AND INSTALL ACCORDING TO MANUFACTURE RECOMMENDATIONS.

BASEPLATE SIZE:	14.5"ø SNOW PLOW PROOF
HEIGHT ABOVE ROADWAY:	0.5"
COLOR:	ANODIZED BLACK
LIGHTS:	AMBER LIGHT EMITTING DIODES (LED's)
MATERIAL:	HOUSING AND BASEPLATE: HIGH-STRENGTH IMPACT RESISTENT METAL ALLOY. WINDOW: ABRASION RESISTANT POLYCARBONATE.
VOLTAGE:	12.5 VOLTS DC (NOT TO EXCEED 15 VOLTS DC)

6. ALWAYS USE 14 AWG WIRING, TYPE RHH, RHW-2 OR EQUIVALENT APPROVED BY LOCAL AGENCY FOR IN-ROADWAY WARNING SIGNAL ARRAY HOME RUN CONNECTION. ALWAYS USE 7 STRAND 18 AWG SIGNAL CABLE FOR SINGLE RUN FROM ENCLOSURE TO OPPOSITE SIDE OF STREET.
7. IN-ROADWAY WARNING LIGHTS ARE USED IN ACCORDANCE WITH U.S. DOT-FHWA/MUTCH 2000 (SECTION 4L).



IN-ROADWAY WARNING SIGNAL WIRING SAWCUT CROSS-SECTION

DO NOT SCALE FROM THESE DRAWINGS.

PATH: O:\Ktn\68140\Planset\E-Det.dwg
Tue, 10/May/05 10:12AM dastevens
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: E2

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-TONGASS AVENUE
RESURFACING
PROJECT NO. 68140

MISCELLANEOUS DETAILS

DESIGNED BY: D. LESTER

STATE OF ALASKA 49th — Lars R. Gregovich CE-8065 — REGISTERED PROFESSIONAL ENGINEER — 5-13-05

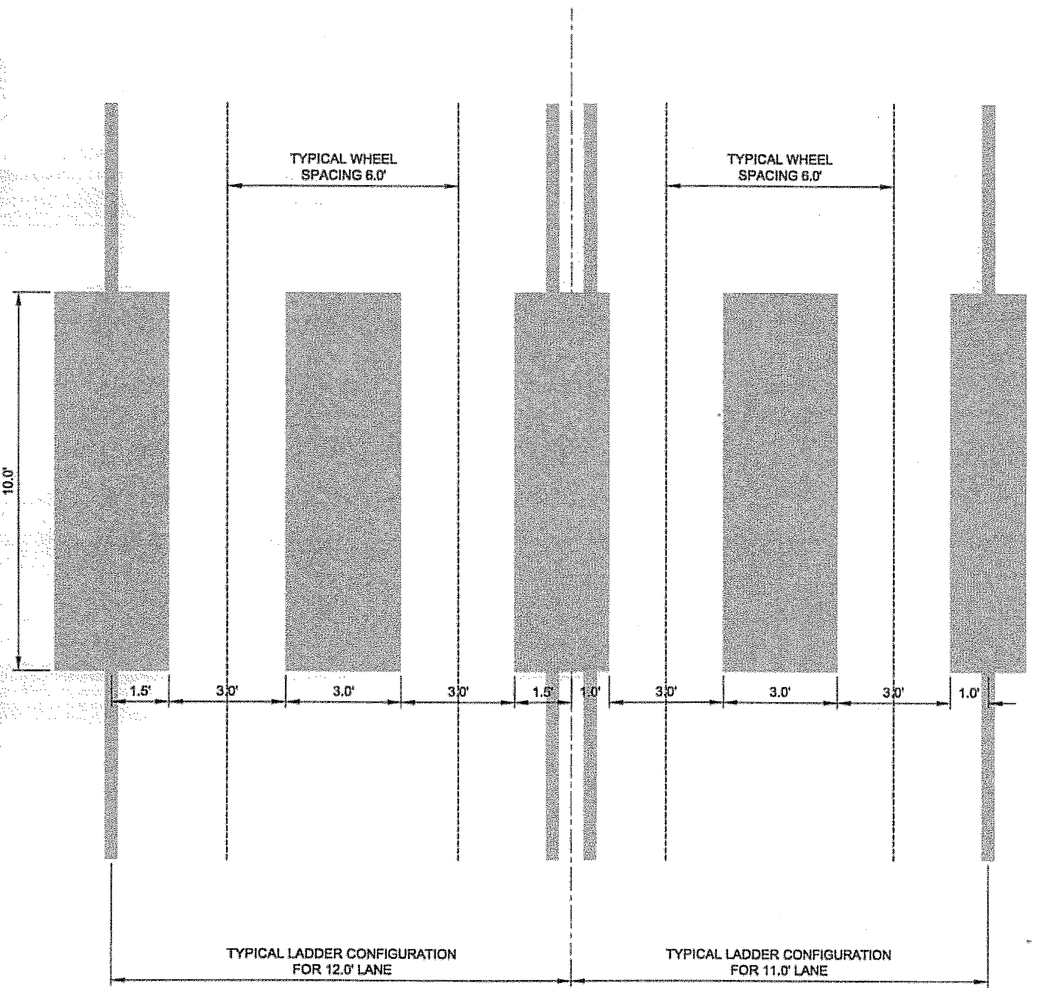
CHECKED BY: D. LESTER
DRAWN BY: L. ROBERTSON

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

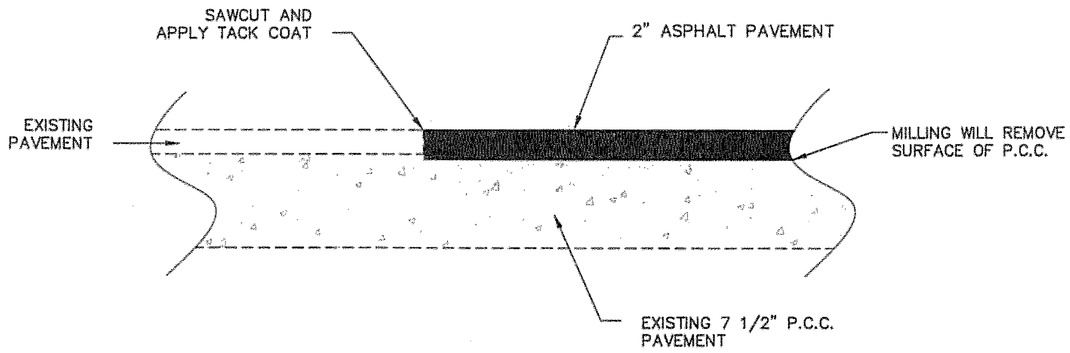
KTN-TONGASS AVENUE RESURFACING

MISCELLANEOUS DETAILS

PROJECT DESIGNATION NUMBER	
68140 ~ IM-0902(28)	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
E2	50



TYPICAL LAYOUT FOR LADDER CROSSWALKS



SAWCUT EXISTING ASPHALT PAVEMENT DETAIL

DO NOT SCALE FROM THESE DRAWINGS.

PATH:
Q:\Ktn\68140\Planset\E-Det.dwg
Fri, 13/May/05 07:44AM dostevens
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: E3

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-TONGASS AVENUE
RESURFACING
PROJECT NO. 68140

MISCELLANEOUS DETAILS

DESIGNED BY: D. LESTER

STATE OF ALASKA 49th
Lars R. Gregovich
CE-8065
PROFESSIONAL ENGINEER
5.13.05

CHECKED BY: D. LESTER
DRAWN BY: R. SNYDER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

KTN-TONGASS AVENUE RESURFACING

MISCELLANEOUS DETAILS

PROJECT DESIGNATION NUMBER	
68140 ~ IM-0902(28)	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
E3	50

PATH: O:\Ktn\68140\Planset\F-Plan.dwg
Thu, 12/May/05 10:37AM
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: F1

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

B.O.P. SHEET F1

E.O.P.

KEY PLAN

B.O.P. STA. "L" 98+00

'L' LINE CURVE DATA
Δ = 25°49'58"
D = 04°41'11"
R = 1222.60
L = 551.23
T = 280.38

'L' LINE CURVE DATA
Δ = 17°26'13"
D = 11°36'42"
R = 493.43
L = 150.17
T = 75.67

'L' LINE CURVE DATA
Δ = 08°23'53"
D = 10°00'00"
R = 572.96
L = 83.98
T = 42.07

'L' LINE CURVE DATA
Δ = 20°12'29"
D = 10°00'00"
R = 572.96
L = 202.08
T = 102.10

PRC = 99+13.24
PT = 100+63.40
STA BK: 'L' 100+79.10
STA AHD: 'L' 100+67.78
PT = 104+03.13
PC = 103+19.15
PC = 105+28.88
PT = 107+30.95
PC = 108+13.94
BEGIN ALT. A & ALT. B

S60°59'14"E 267.07'
S60°35'21"E 125.75'
S40°28'32"E 86.98'

TONGASS AVENUE

MINI STORE & DELI 1638
PERFECT 10 & TAN 1630
PANHANDLE RIGGING 1600
SILVER LINING SEAFOODS
EXIST. CONC. PATCH 1647
ASPHALT PARKING LOT
HOUSE 1516
GARAGE
PARKING
THE CEDARS LODGE
AIR SEA TRAVEL 1601
1427
1429
1450
1448
1442
1624
1722
1712
1702
1734
1715
1705
1719

(XX) DENOTES VIADUCT BENT NUMBER

DELAMINATED CONCRETE AREAS, TYP., BASED ON GROUND PENETRATING RADAR SURVEY OF 1998.

LEGEND
- DO NOTHING
- GRIND & REPAVE
- GRIND & REPAVE–ALT. A
- HYDRO & MMC ALT. B

20 0 20 40
SCALE IN FEET

DO NOT SCALE FROM THESE DRAWINGS.

DESIGNED BY: D. LESTER

STATE OF ALASKA 49th Lars R. Gregovich CE-8065 REGISTERED PROFESSIONAL ENGINEER 5.13.05

CHECKED BY: D. LESTER
DRAWN BY: R. SNYDER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

KTN-TONGASS AVENUE RESURFACING

PLAN VIEWS STA. 98+00 TO 108+50

PROJECT DESIGNATION NUMBER	
68140 ~ IM-0902(28)	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
F1	50

PATH:
Q:\Ktn\68140\Planset\F-Plan.dwg
Thu, 12/May/05 10:38AM
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: F2

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

'L' LINE
CURVE DATA
Δ = 10°03'06"
D = 10°00'00"
R = 572.96
L = 100.52
T = 50.39

PC = 109+14.46
PC = 110+45.73
PT = 110+97.43
PT = 112+14.98
PC = 113+01.69
PT = 120+14.32

1414
1410
1408
1406
1404
1402
1400
1228
1249
1245
1225
1405

PARKING
DECK
TONGASS AVENUE
ROLLER BAY
PARKING DECK
CARLIN AIR
EXIST. CONC. PATCH
bcs COMPUTOR SYSTEMS
WATER
ALASKA OUTBOARD
MOOSE LODGE
PARKING DECK
WRANGELL FISHERIES INC.
GARAGE
TALBOT'S
TALBOT'S BUILDING SUPPLY
EXISTING CONC. PATCH
SS MH

109+00
110+00
111+00
112+00
113+00
114+00
115+00
116+00
117+00
118+00
119+00

S50°25'58"E 1312.7
S55°36'09"E 580.15
S55°36'09"E 580.15
S45°09'30"E

'L' LINE
CURVE DATA
Δ = 05°10'11"
D = 10°00'00"
R = 572.96
L = 51.70
T = 25.87

'L' LINE
CURVE DATA
Δ = 79°14'50"
D = 39°53'45"
R = 143.61
L = 198.64
T = 118.91

PC = 116+57.58
PT = 118+56.21
END ALT. A & ALT. B

DELAMINATED CONCRETE AREA, TYP., BASED ON GROUND PENETRATING RADAR SURVEY OF 1998.

LEGEND

- DO NOTHING
- GRIND & REPAVE
- GRIND & REPAVE–ALT. A
- HYDRO & MMC–ALT. B

(XX) DENOTES VIADUCT BENT NUMBER

DO NOT SCALE FROM THESE DRAWINGS.

B.O.P.

SHEET F2

E.O.P.

KEY PLAN

DESIGNED BY: D. LESTER

STATE OF ALASKA
49th
Lars R. Gregovich
CE-8065
REGISTERED PROFESSIONAL ENGINEER

5.12.05

CHECKED BY: D. LESTER
DRAWN BY: R. SNYDER

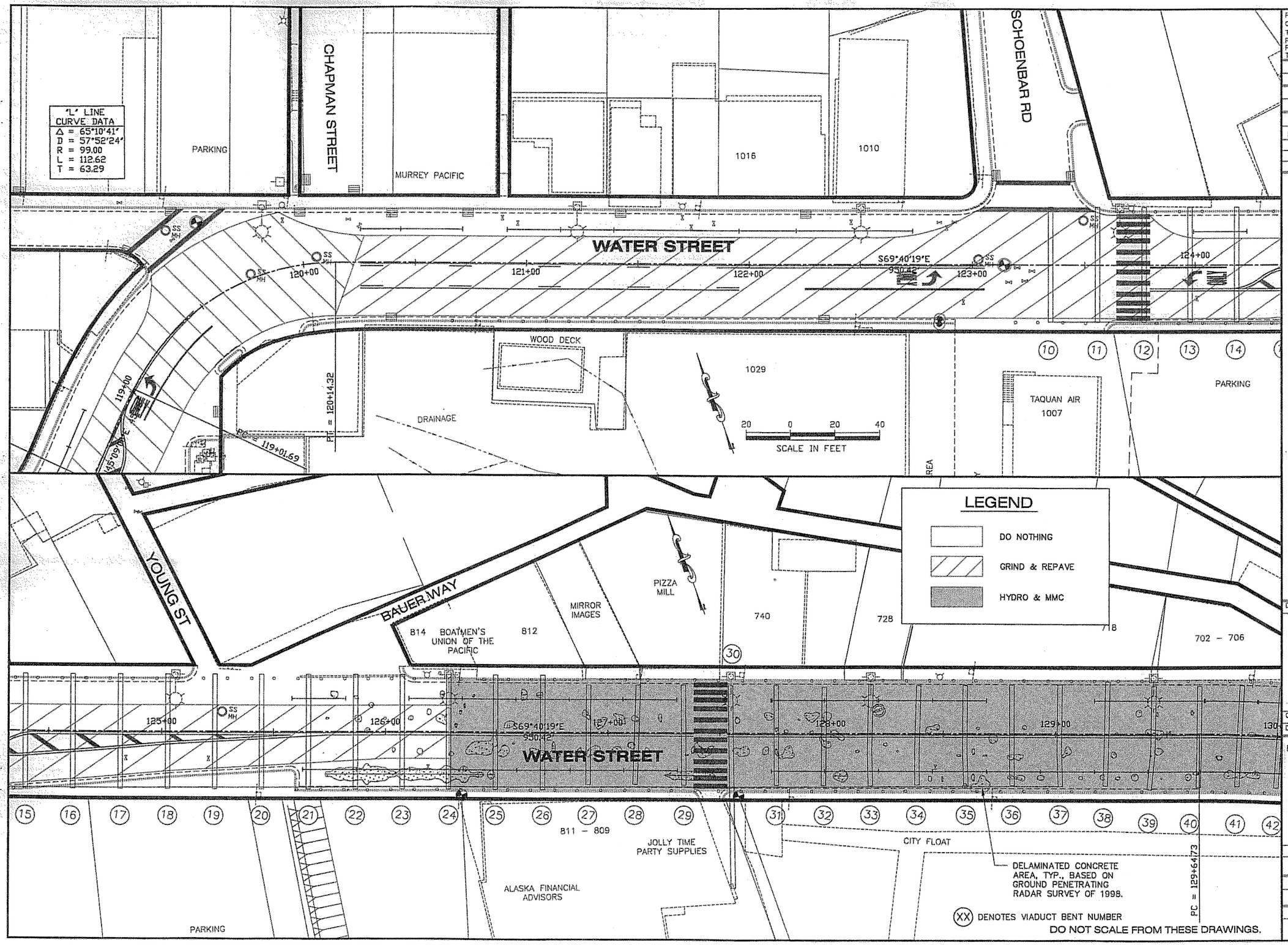
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

KTN-TONGASS AVENUE RESURFACING

PLAN VIEWS STA. 108+50 TO 119+00

PROJECT DESIGNATION NUMBER
68140 ~ IM-0902(28)

STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
F2	50



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PLOT:
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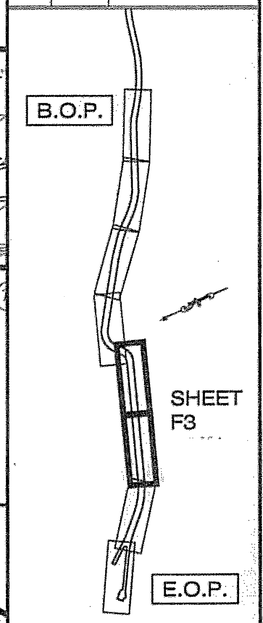
TAB: F3

ADDENDUM NUMBER
ATTACHMENT NUMBER

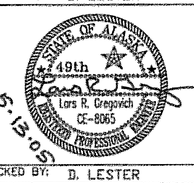
RECORD OF REVISIONS

No.	DATE	DESCRIPTION



KEY PLAN

DESIGNED BY: D. LESTER



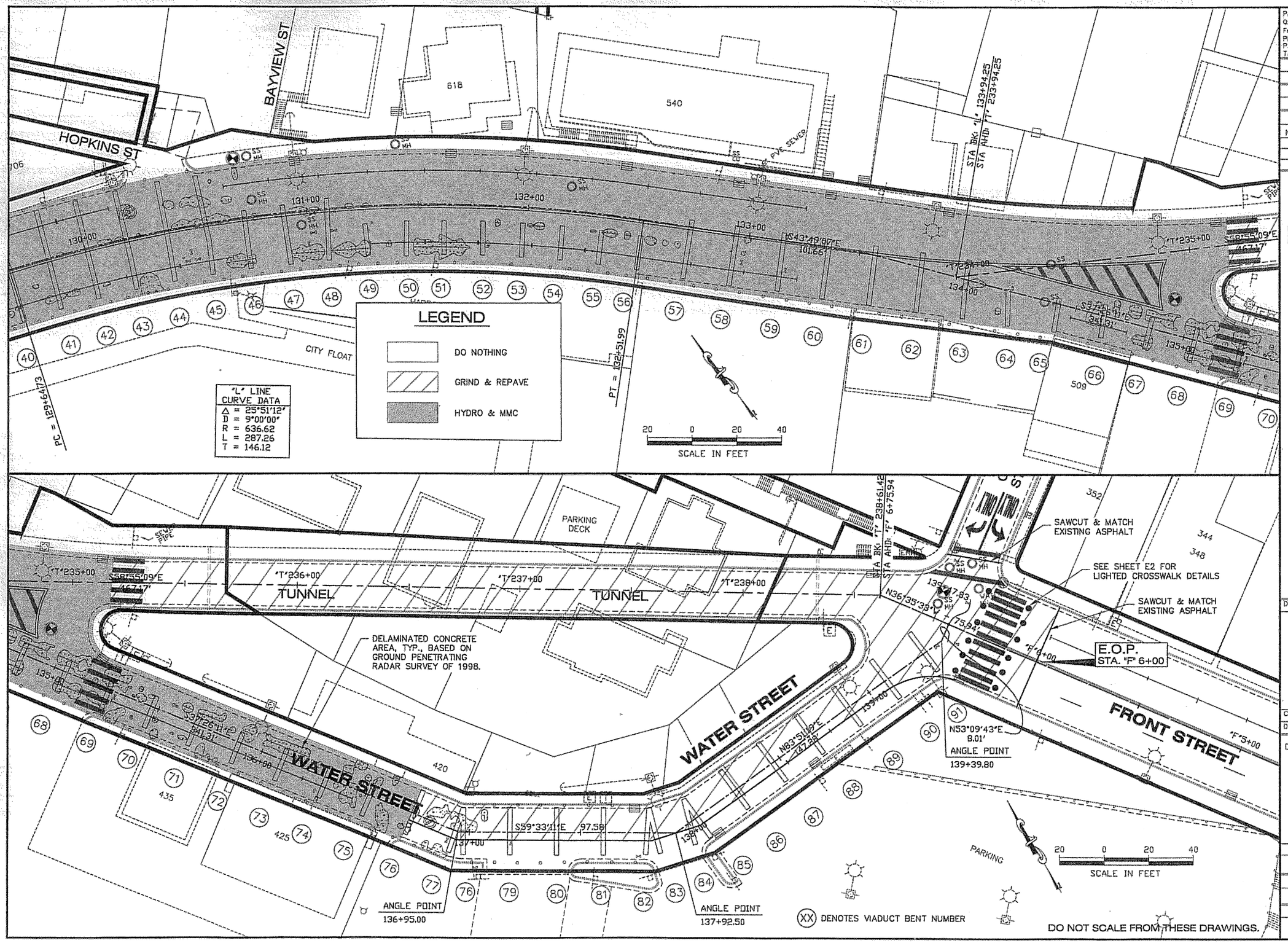
CHECKED BY: D. LESTER
DRAWN BY: R. SNYDER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

KTN-TONGASS AVENUE RESURFACING

PLAN VIEWS STA. 119+00 TO 130+00

PROJECT DESIGNATION NUMBER	
68140 ~ IM-0902(28)	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
F3	50



PATH:
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PLOT:
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TAB: F4

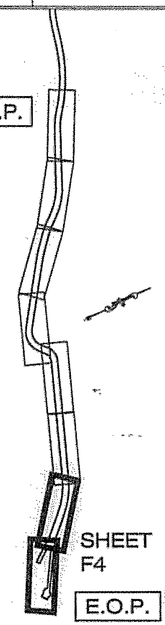
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

B.O.P.



SHEET F4

E.O.P.

KEY PLAN

DESIGNED BY: D. LESTER

STATE OF ALASKA 49th Lars R. Gregovich CE-8065 REGISTERED PROFESSIONAL ENGINEER 5.13.05

CHECKED BY: D. LESTER

DRAWN BY: R. SNYDER

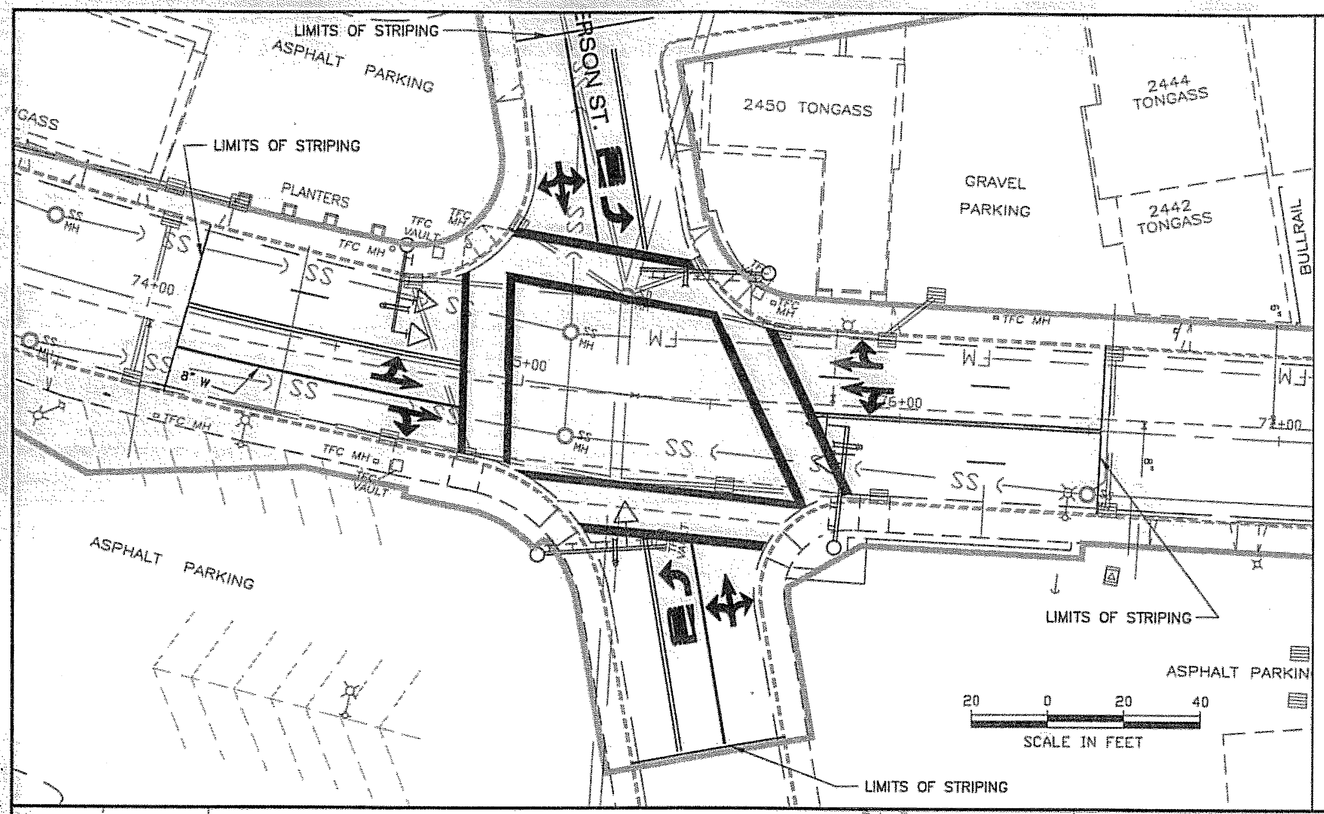
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

KTN-TONGASS AVENUE RESURFACING

PLAN VIEWS STA. 130+00 TO EOP 06+00

PROJECT DESIGNATION NUMBER
68140 ~ IM-0902(28)

STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
F4	50

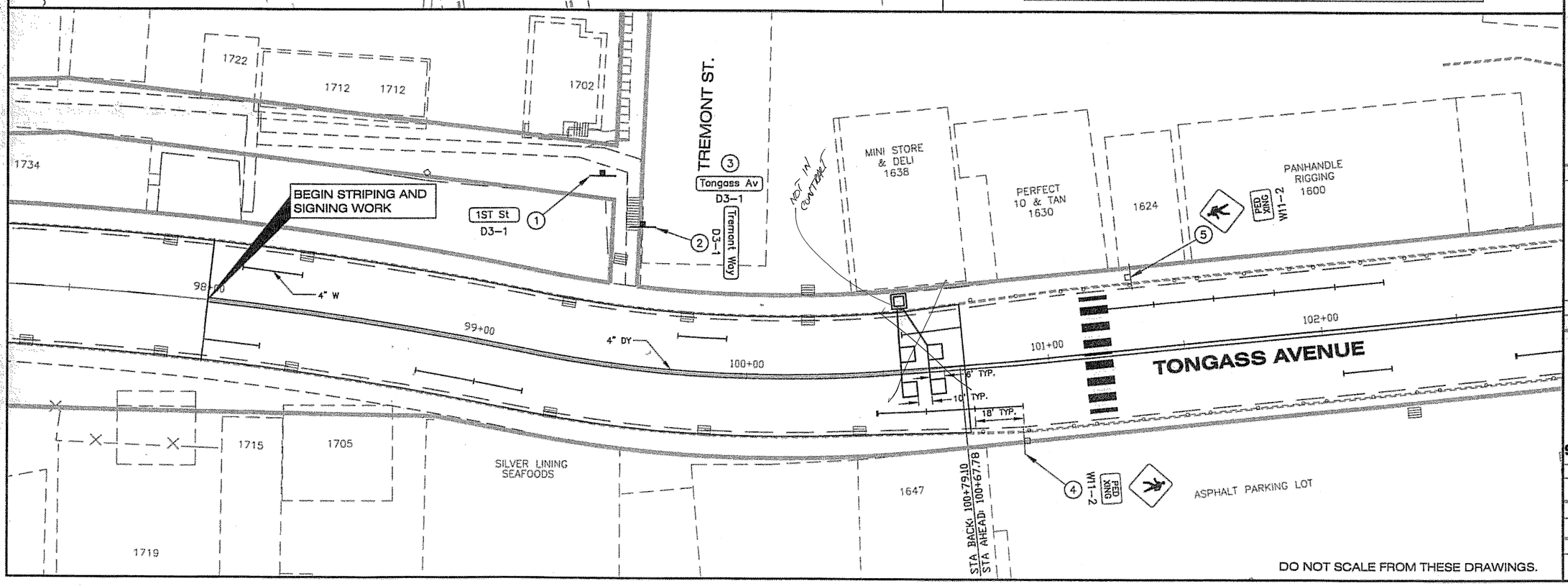


GENERAL STRIPING NOTES

1. THE CONTRACTOR SHALL NOTIFY THE A.D.O.T./P.F. TRAFFIC AND SAFETY SECTION TO PROVIDE THE MARKING LAYOUT AT LEAST ONE WEEK PRIOR TO FINAL STRIPING. THE CONTRACTOR SHALL LAYOUT THE FINAL STRIPING PATTERN BASED ON THE TRAFFIC SECTIONS RECOMMENDATIONS.
2. FOR THE PURPOSES OF ESTIMATING USE 2 - 4 INCH WIDE WHITE SHOULDER STRIPES AT A DISTANCE OF 12 FEET FROM THE CENTERLINE. USE 1.7 - 4 INCH YELLOW CENTERLINE STRIPES FOR THE LENGTH OF THE PROJECT.

GENERAL SIGNING NOTES

1. SIGN LOCATIONS ARE APPROXIMATE ONLY AND ARE SUBJECT TO MINOR REVISIONS.
2. SEE STD. DWG. S-30.03 FOR POST SLEEVE TYPE SOIL EMBEDMENT.
3. ALL SIGN POSTS SHALL BE PERFORATED GALVANIZED SQUARE STEEL POSTS.
4. ALL SIGNS SHALL BE .125" THICK EXCEPT AS NOTED IN THE STANDARD SIGN SUMMARY.
5. ALL NEW SIGNS SHALL BE UNFRAMED EXCEPT AS NOTED IN THE STANDARD SIGN SUMMARY.
6. ALL D3-1 STREET SIGNS HAVE THE LEGEND ON BOTH SIDES, AND ARE THE BLADE EXTRUDED TYPE.
7. SIGN PANELS TO BE INSTALLED PER STANDARD DRAWING S-05.01.
8. ALL EXISTING SIGNS TO BE REMOVED OR REPLACED SHALL BE DISMANTLED BY THE CONTRACTOR AND STOCKPILED AT THE STATE OF ALASKA D.O.T/P.F. MAINTENANCE STATION AS DIRECTED BY THE ENGINEER. PAYMENT SHALL BE CONSIDERED INCIDENTAL TO 615(1).
9. PRIOR TO INSTALLING POSTS, THE CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING AND NEW UNDERGROUND UTILITIES, INCLUDING BUT NOT LIMITED TO PIPELINES, INTERCONNECT CABLES, SIGNAL SYSTEMS, LIGHTING SYSTEMS, STORM AND SANITARY SEWERS, WATER SYSTEMS AND TELEPHONE AND ELECTRICAL CABLES. ALL EXISTING UTILITIES ARE NOT NECESSARILY SHOWN ON THE PLANS.



DO NOT SCALE FROM THESE DRAWINGS.

PATH:
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Thu, 12/May/05 10:09AM
PLOT:
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TAB: H4

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

B.O.P.

SHEET H1

E.O.P.

KEY PLAN

DESIGNED BY: D. LESTER

STATE OF ALASKA
James A. Evenson
CE-8345
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: D. LESTER
DRAWN BY: L. ROBERTSON

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

KTN-TONGASS AVENUE RESURFACING

SIGNING & STRIPING STA. 92+00 TO 100+63.36

PROJECT DESIGNATION NUMBER	
68140 ~ IM-0902(28)	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
H1	50

PATH:
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Thu, 12/May/05 10:09AM
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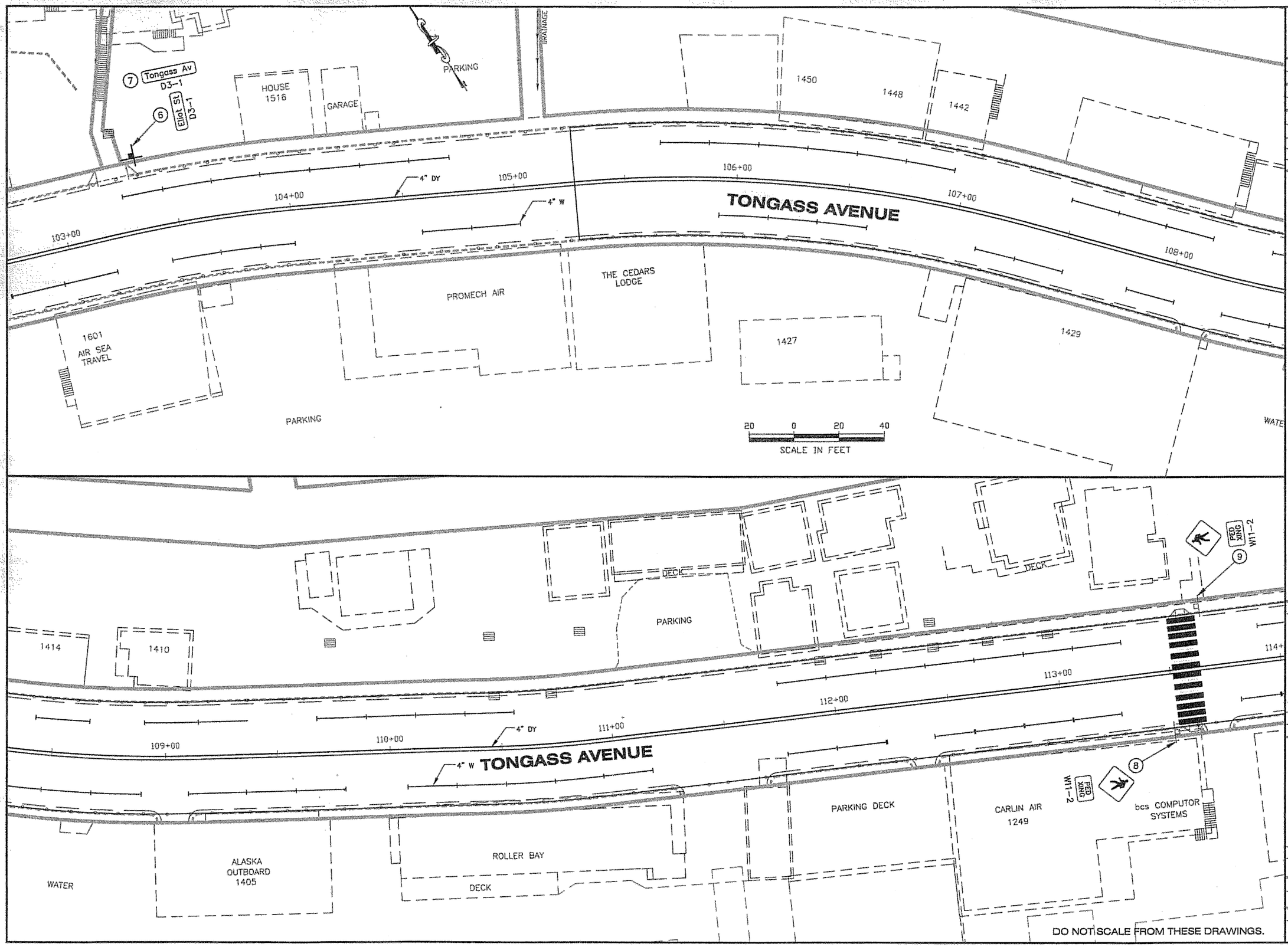
TAB: H5

ADDENDUM NUMBER

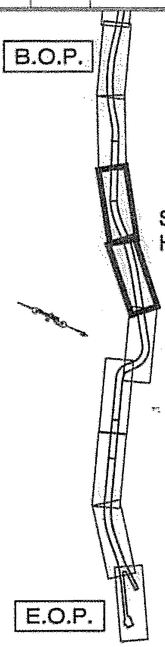
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



B.O.P.



E.O.P.

SHEET H2

KEY PLAN

DESIGNED BY: D. LESTER

STATE OF ALASKA
James A. Evensen
CE-8345
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: D. LESTER

DRAWN BY: L. ROBERTSON

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

KTN-TONGASS AVENUE RESURFACING

SIGNING & STRIPING STA. 103+00 TO 114+00

PROJECT DESIGNATION NUMBER
68140 ~ IM-0902(28)

STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
H2	50

DO NOT SCALE FROM THESE DRAWINGS.

PATH:
Q:\Ktn\68140\Planset\H1-H11.dwg
Thu, 12/May/05 10:10AM
PLOT:
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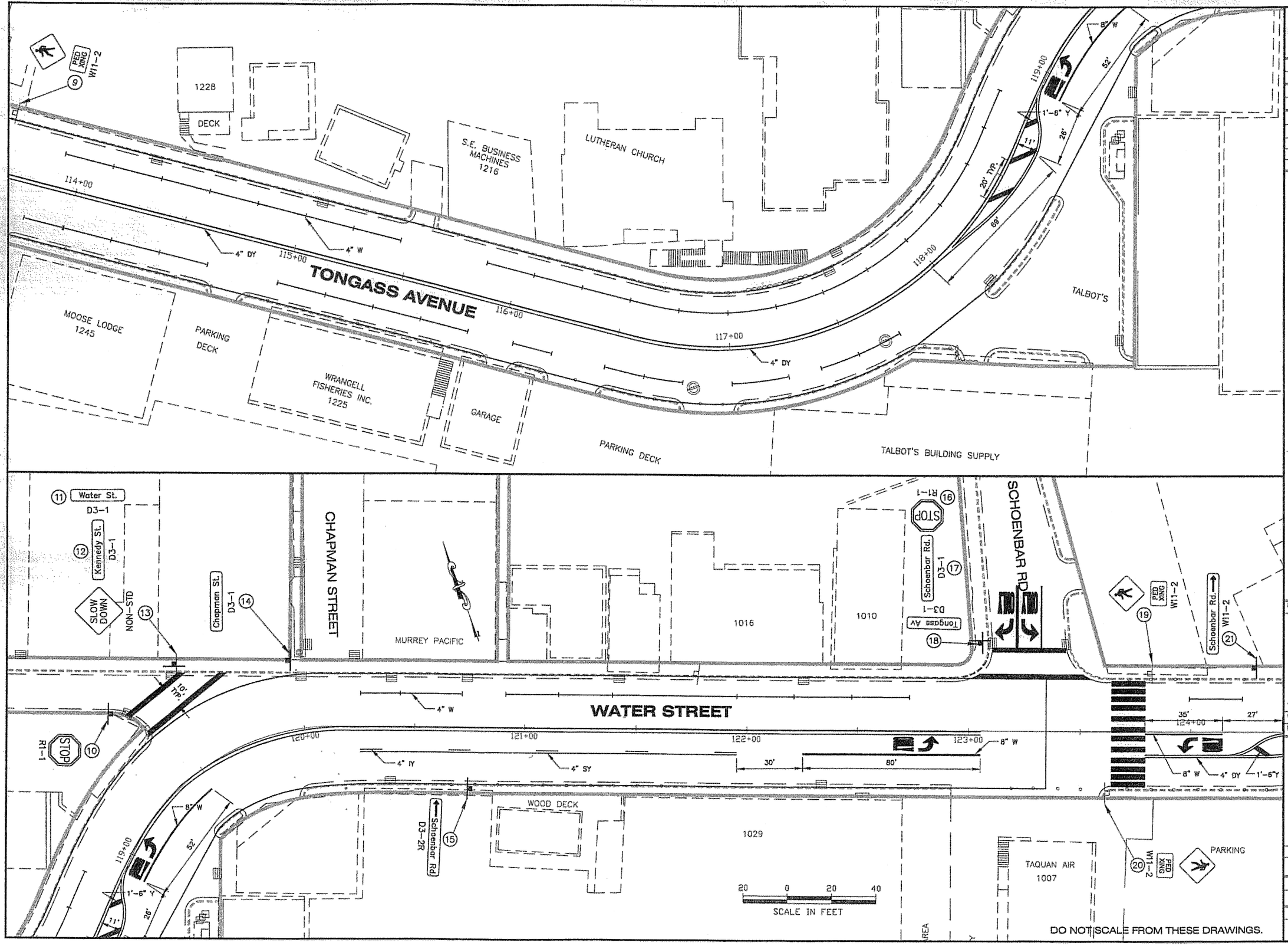
TAB: H6

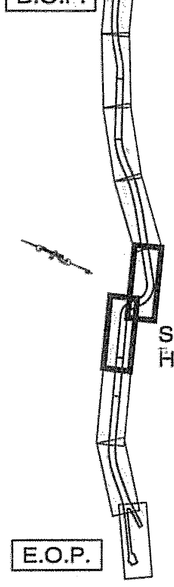
ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



B.O.P.

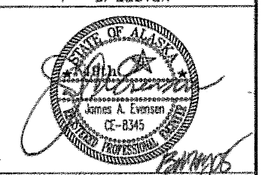


SHEET H3

E.O.P.

KEY PLAN

DESIGNED BY: D. LESTER



CHECKED BY: D. LESTER
DRAWN BY: L. ROBERTSON

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

KTN-TONGASS AVENUE RESURFACING

SIGNING & STRIPING STA. 114+00 TO 124+00

PROJECT DESIGNATION NUMBER
68140 ~ IM-0902(28)

STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
H3	50

PATH:
O:\Ktn\68140\Planset\H1-H11.dwg
Thu, 12/May/05 10:10AM
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: H7

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

B.O.P.

SHEET H4

E.O.P.

YOUNG ST
NO MOTOR VEHICLES R5-3 (22)
R5-1 (23) DO NOT ENTER
BAUERWAY
814 BOATMEN'S UNION OF THE PACIFIC
812
MIRROR IMAGES
PIZZA MILL
PED XING W11-2 (25)
740
728
726
718
702 – 706
133'
129+00
126+00
4" W
127+00
128+00
129+00
130+
4" DY
WATER STREET
4" DY
6"Y
811 – 809
PED XING W11-2
(24) JOLLY TIME PARTY SUPPLIES
ALASKA FINANCIAL ADVISORS
CITY FLOAT
PARKING
Boyview St. D3-1 (31)
Barber St. D3-1 (29)
Water St. D3-1 (30)
BAYVIEW ST
Water St. D3-1 (33)
Harborview Way D3-1
618
540
HOPKINS ST
R6-1L (28)
(32)
SPEED LIMIT 25 R2-1 (34)
R5-1 DO NOT ENTER (36)
706
131+00
132+00
133+00
130+00
4" W
4" DY
1'-6" Y
79'
10'
T 235+00
134+00
80'
23'
135+00
HARBORVIEW PARK
CITY FLOAT
Hopkins Alley D3-1 (26)
Water St. D3-1 (27)
SPEED LIMIT 20 R2-1 (35)
"W" 133+41.42 AHD
"L" 133+41.42 BK=
509
(41) ON-1
(42) RIGHT R7-4B KEEP
20 0 20 40
SCALE IN FEET
DO NOT SCALE FROM THESE DRAWINGS.

KEY PLAN

DESIGNED BY: D. LESTER

STATE OF ALASKA
James A. Evensen
CE-8345
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: D. LESTER
DRAWN BY: L. ROBERTSON

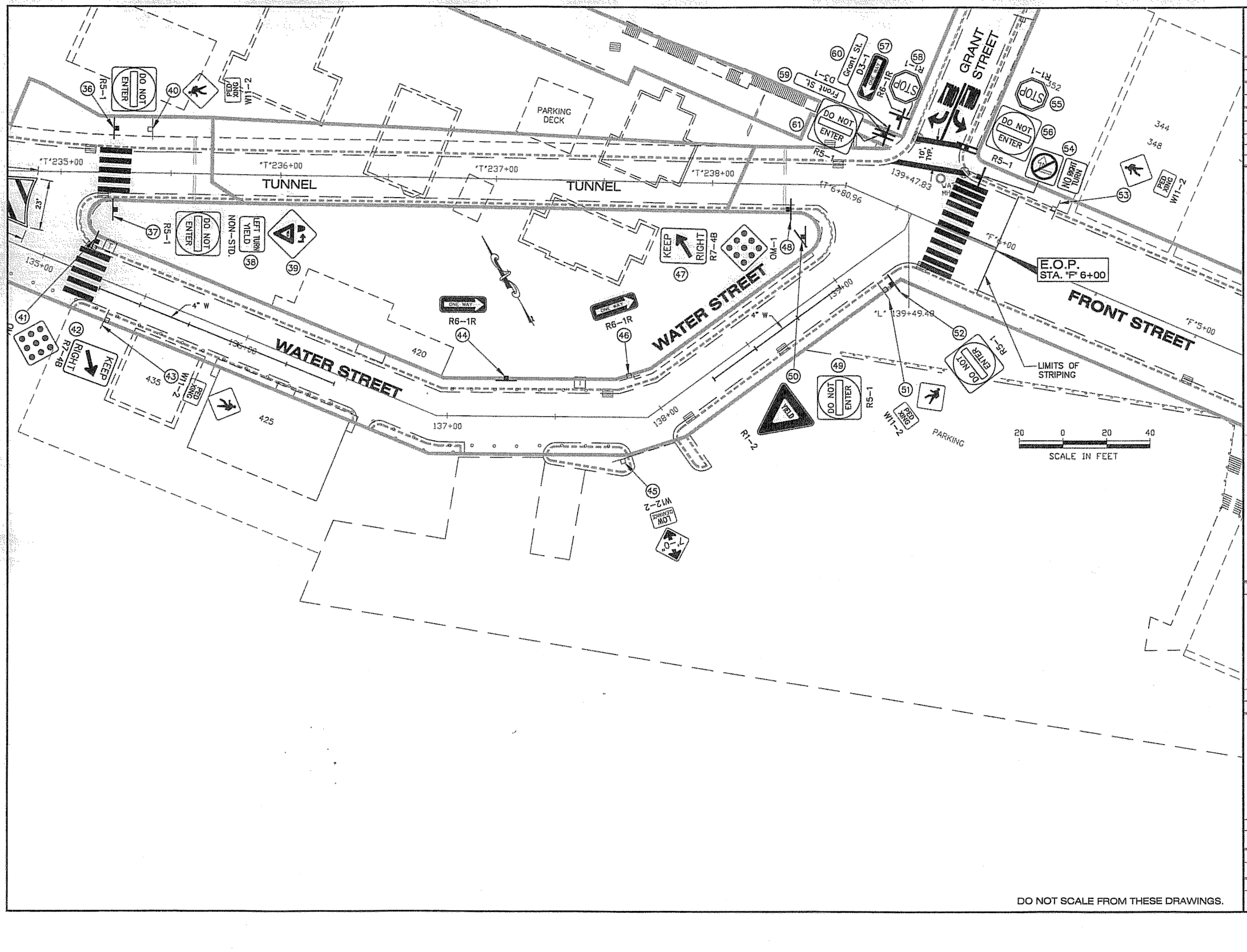
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

KTN-TONGASS AVENUE RESURFACING

SIGNING & STRIPING STA. 124+00 TO 135+40

PROJECT DESIGNATION NUMBER
68140 ~ IM-0902(28)

STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
H4	50



DO NOT SCALE FROM THESE DRAWINGS.

PATH:
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Fri, 13/May/05 07:58AM
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: H8

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

B.O.P.

E.O.P.

SHEET H5

KEY PLAN

DESIGNED BY: D. LESTER

STATE OF ALASKA
James A. Evensen
CE-8345
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: D. LESTER

DRAWN BY: L. ROBERTSON

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

KTN-TONGASS AVENUE RESURFACING

SIGNING & STRIPING STA. 135+40 TO "F" 6+00

PROJECT DESIGNATION NUMBER

68140 ~ IM-0902(28)

STATE	YEAR
ALASKA	2005

SHEET NUMBER	TOTAL SHEETS
H5	50

STANDARD SIGN SUMMARY

Number	Station	Off.	Desc.	ASDS Code	Dim. (HxW)	Area (sf)	Post	Remarks
1	99+34	LT	1ST AVE	D3-1	8x36	2.00	2.5	
2	99+55	LT	TREMONT WAY	D3-1	8x54	3.00	2.5	
3	99+55	LT	TONGASS AVE	D3-1	8x54	3.00		MOUNT ABOVE SIGN 2
4	100+90	RT	PEDESTRIAN CROSSING	W11-2	36x36			EXISTING SIGN, TO REMAIN
5	101+32	LT	PEDESTRIAN CROSSING	W11-2	36x36			EXISTING SIGN, TO REMAIN
6	103+35	LT	ELIOT ST	D3-1	8x42	2.33	2.5	
7	103+35	LT	TONGASS AVE	D3-1	8x54	3.00		MOUNT ABOVE SIGN 6
8	113+50	RT	PEDESTRIAN CROSSING	W11-2	36x36			EXISTING SIGN, TO REMAIN
9	113+65	LT	PEDESTRIAN CROSSING	W11-2	36x36			EXISTING SIGN, TO REMAIN
10	119+38	LT	STOP	R1-1	30x30	6.25	2.5	
11	119+60	LT	WATER ST	D3-1	8x42	2.33	2.5	
12	119+60	LT	KENNEDY ST	D3-1	36x36			EXISTING SIGN, TO REMAIN
13	119+60	LT	SLOW DOWN	NON-STD				EXISTING SIGN, TO REMAIN
14	119+98	LT	CHAPMAN ST	D3-1	8x54	3.00	2.5	
15	120+75	RT	⇐SCHOENBAR RD	D3-2L	16x90	10.0	2.5	
16	123+05	LT	STOP	R1-1	30x30	6.25	2.5	
17	123+05	LT	SCHOENBAR RD	D3-1	8x54	3.00		MOUNT ABOVE SIGN 16
18	123+05	LT	TONGASS AVE	D3-1	8x54	3.00		MOUNT ABOVE SIGN 16
19	123+81	LT	PEDESTRIAN CROSSING	W11-2	36x36			EXISTING SIGN, TO REMAIN
20	123+62	RT	PEDESTRIAN CROSSING	W11-2	36x36			EXISTING SIGN, TO REMAIN
21	124+28	RT	SCHOENBAR RD ⇒	D3-2R	16x90	10.0	2.5	
22	125+30	LT	NO MOTOR VEHICLES	R5-3	24x24	4.00	2.5	
23	126+00	LT	DO NOT ENTER	R5-1	36x36	9.00	2.5	
24	127+36	RT	PEDESTRIAN CROSSING	W11-2	36x36			EXISTING SIGN, TO REMAIN
25	127+55	LT	PEDESTRIAN CROSSING	W11-2	36x36			EXISTING SIGN, TO REMAIN
26	130+15	LT	HOPKINS ALLEY	D3-1	8x60	3.33	2.5	
27	130+15	LT	WATER ST	D3-1	8x42	2.33		MOUNT ABOVE SIGN 26
28	130+38	LT	ONE WAY	R6-1L	12x36	3.00	2.5	
29	130+38	LT	BARBER ST	D3-1	8x48	2.67		MOUNT ABOVE SIGN 28
30	130+38	LT	WATER ST	D3-1	8x42	2.33		MOUNT ABOVE SIGN 28
31	130+46	LT	BAYVIEW ST	D3-1	8x48	2.67	2.5	
32	132+50	LT	HARBORVIEW WAY	D3-1	8x66	3.67	2.5	
33	132+50	LT	WATER ST	D3-1	8x42	2.33		MOUNT ABOVE SIGN 32
34	133+50	LT	SPEED LIMIT 25	R2-1	36x30	7.50	2.5	
35	133+50	RT	SPEED LIMIT 20	R2-1	36x30	7.50	2.5	
36	"T" 235+25	LT	DO NOT ENTER	R5-1	36x36	9.00	2.5	
37	"T" 235+25	RT	DO NOT ENTER	R5-1	36x36	9.00	2.5	
38	"T" 235+25	RT	LEFT TURN YIELD	NON-STD				EXISTING SIGN, TO REMAIN
39	"T" 235+25	RT	LEFT TURN YIELD (SYMBOL)	NON-STD				EXISTING SIGN, TO REMAIN
40	"T" 235+40	LT	PEDESTRIAN CROSSING	W11-2	36x36			EXISTING SIGN, TO REMAIN
41	135+20	LT	OBJECT MARKER	OM-1	18x18	2.25	2.5	
42	135+20	LT	KEEP RIGHT	R7-4B	30x24	5.00		MOUNT ABOVE SIGN 41
43	135+38	RT	PEDESTRIAN CROSSING	W11-2	36X36			EXISTING SIGN, TO REMAIN
44	137+27	LT	ONE WAY	R6-1R	12x36	3.00	2.5	
45	137+81	RT	7' 0" LOW CLEARANCE	W12-2	36x36			EXISTING SIGN, TO REMAIN
46	137+84	LT	ONE WAY	R6-1R	12x36	3.00	2.5	
47	"T" 238+35	RT	KEEP RIGHT	R7-4B	30x24	5.00	2.5	
48	"T" 238+35	RT	OBJECT MARKER	OM-1	18x18	2.25		MOUNT BELOW SIGN 47
49	139+00	LT	DO NOT ENTER	R5-1	36x36	9.00	2.5	
50	139+00	LT	YIELD	R1-2	36x36	9.00		MOUNT OPPOSITE SIGN 49
51	139+15	RT	PEDESTRIAN CROSSING	W11-2	36x36			EXISTING SIGN, TO REMAIN
52	139+20	RT	DO NOT ENTER	R5-1	36x36	9.00	2.5	
53	"F" 5+80	LT	PEDESTRIAN CROSSING	W11-2	36x36			EXISTING SIGN, TO REMAIN
54	"F" 6+20	LT	NO RIGHT TURN	R30-1	30x30	6.25	2.5	
55	"F" 6+30	LT	STOP	R1-1	30x30	6.25		MOUNT OPPOSITE SIGN 56
56	"F" 6+30	LT	DO NOT ENTER	R5-1	36x36	9.00	2.5	
57	"F" 6+60	LT	ONE WAY	R6-1L	12x36	3.00		MOUNT ABOVE SIGN 58
58	"F" 6+60	LT	STOP	R1-1	30x30	6.25	2.5	
59	"F" 6+65	LT	FRONT ST	D3-1	8x42	2.33		MOUNT ABOVE SIGN 61
60	"F" 6+65	LT	GRANT ST	D3-1	8x42	2.33		MOUNT ABOVE SIGN 61
61	"F" 6+65	LT	DO NOT ENTER	R5-1	36x36	9.00	2.5	
					TOTAL= 217.40			

DO NOT SCALE FROM THESE DRAWINGS.

PATH:
Q:\Ktn\68140\Planset\H1-H11.dwg

PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: H6

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-TONGASS AVENUE
RESURFACING
PROJECT NO. 68140

SIGNING SUMMARY

DESIGNED BY: D. LESTER

STATE OF ALASKA
James A. Evensen
CE-8345
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: D. LESTER

DRAWN BY: L. ROBERTSON

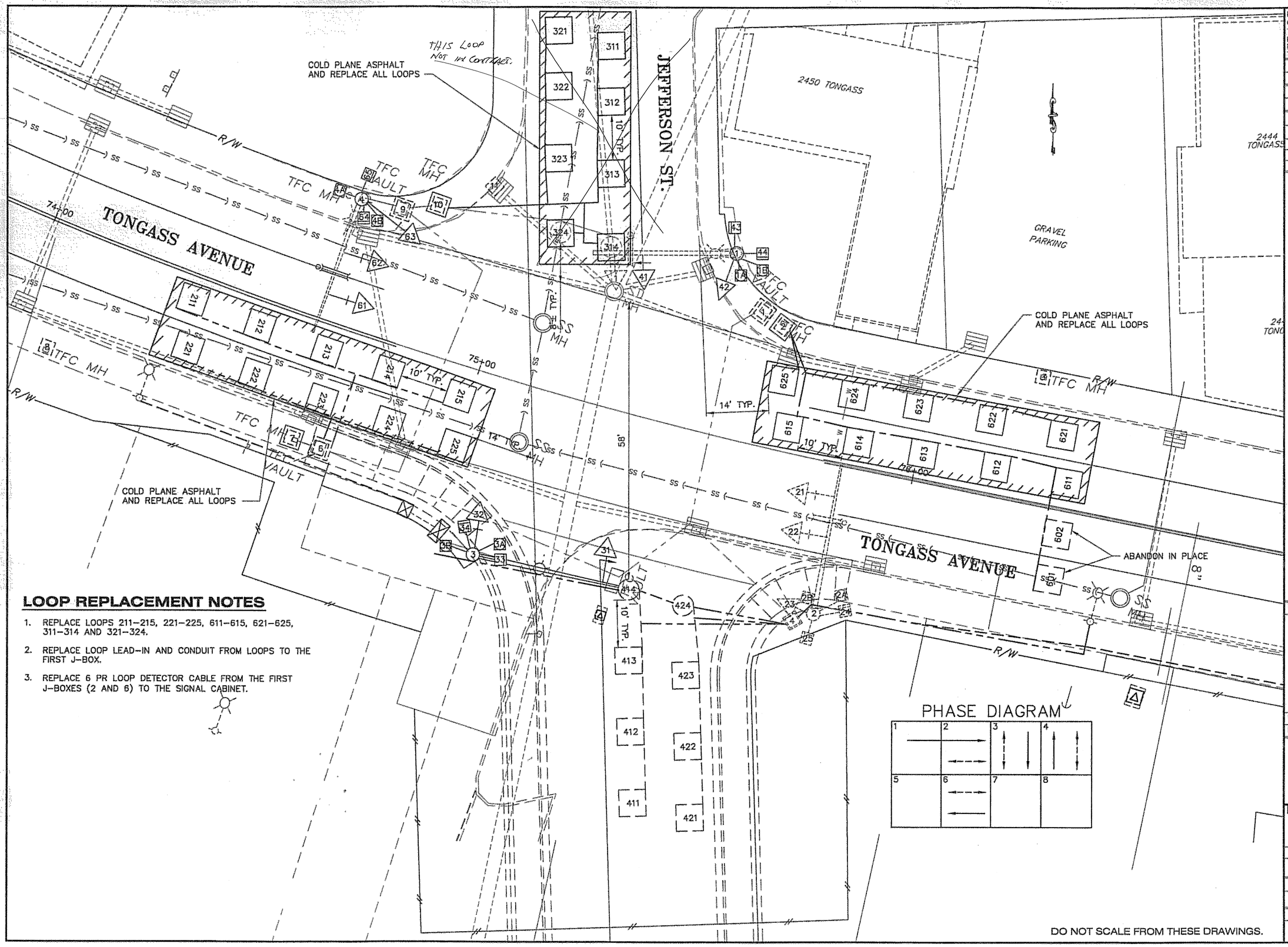
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

KTN-TONGASS AVENUE
RESURFACING

SIGNING SUMMARY

PROJECT DESIGNATION NUMBER
68140 ~ IM-0902(28)

STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
H6	50



LOOP REPLACEMENT NOTES

1. REPLACE LOOPS 211–215, 221–225, 611–615, 621–625, 311–314 AND 321–324.
2. REPLACE LOOP LEAD–IN AND CONDUIT FROM LOOPS TO THE FIRST J–BOX.
3. REPLACE 6 PR LOOP DETECTOR CABLE FROM THE FIRST J–BOXES (2 AND 6) TO THE SIGNAL CABINET.

PHASE DIAGRAM

DO NOT SCALE FROM THESE DRAWINGS.

PATH: Q:\Ktn\68140\Planset\J1_Loop Dets.dw
Tue, 10/May/05 10:40AM dastevens
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: J1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-TONGASS AVENUE
RESURFACING
PROJECT NO. 68140

TONGASS AVENUE LOOP REPLACEMENT

DESIGNED BY: D. LESTER

STATE OF ALASKA
James A. Evensen
CE-8345
REGISTERED PROFESSIONAL ENGINEER

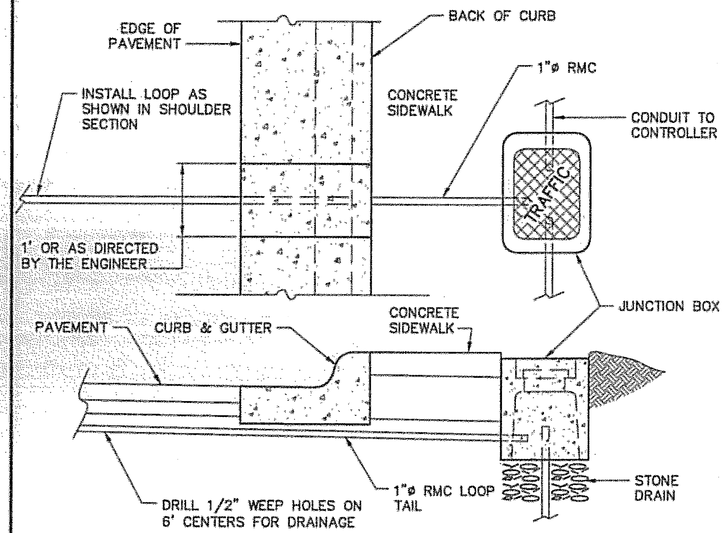
CHECKED BY: D. LESTER
DRAWN BY: R. SNYDER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

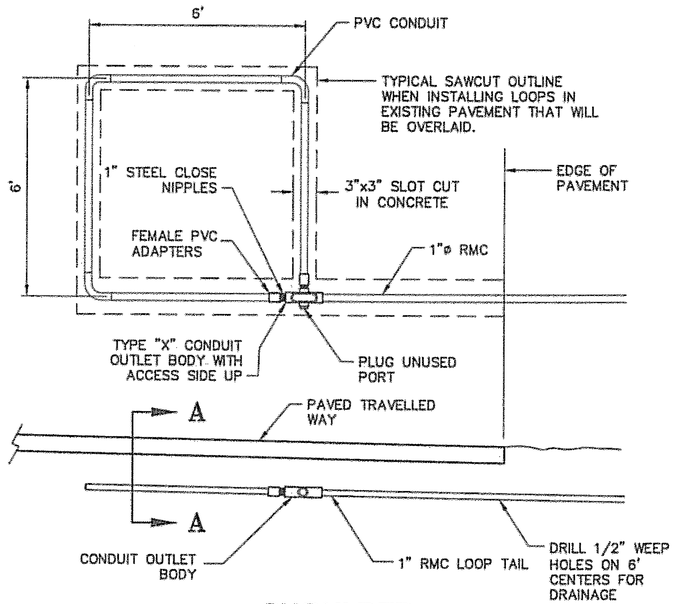
KTN-TONGASS AVENUE RESURFACING

TONGASS AVENUE LOOP REPLACEMENT

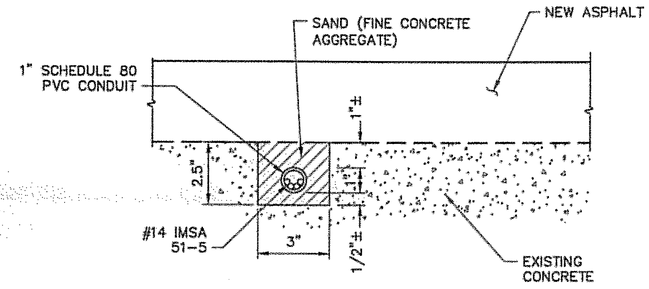
PROJECT DESIGNATION NUMBER	
68140 ~ IM-0902(28)	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
J1	50



CURB SECTION

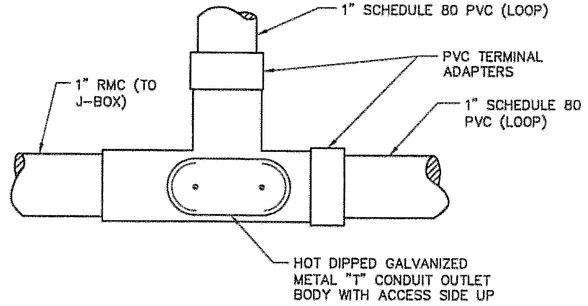


SHOULDER SECTION

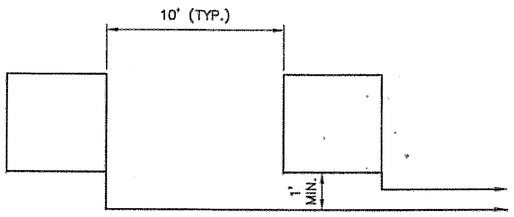


SECTION A-A

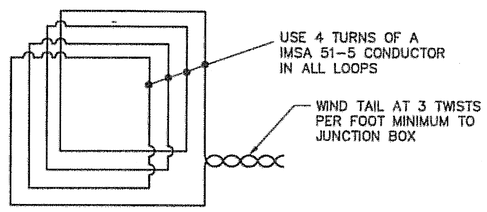
FOR INSTALLATION IN EXISTING PAVEMENT WITH CONCRETE BENEATH.



DETAIL 1



TYPICAL PLAN VIEW OF MULTIPLE LOOP INSTALLATION



LOOP WIRING DETAIL

TYPICAL PVC CONDUIT ENCASED LOOP DETECTOR INSTALLATION

GENERAL NOTES:

1. EACH LOOP DETECTOR SHALL MEET SPECIFICATIONS FOUND IN SECTION 740-205, SECTION 6. INSTALLED IN 1" SCHEDULE 80 PVC CONDUIT. FORM ALL LOOPS 6 FEET SQUARE, SOLVENT WELDING ALL PVC TO PVC JOINTS . USE X CONDUIT OUTLET BODIES THAT ARE MADE OF HOT DIP GALVANIZED STEEL TO JOIN THE LOOPS AND TAILS.
2. INSTALL 4 TURNS OF IMSA 51-5 DUCTED CONDUCTOR IN ALL LOOPS AND PROVIDE TAILS THAT EXTEND TO THE JUNCTION BOX SPECIFIED ON THE PLANS. USE #14 AWG CONDUCTOR IN A POLYETHYLENE TUBE CONFORMING TO IMSA SPECIFICATION 51-5. WIND THE TAIL CONDUCTORS TOGETHER AT A RATE OF 3 TWISTS PER FOOT.
3. INSTALL ALL LOOP DETECTORS PRIOR TO OVERLAYING EXISTING PAVEMENT OR PAVING A NEW ROADWAY.
4. INSTALL ALL LOOP DETECTORS SLOPED TO DRAIN INTO THE JUNCTION BOX THE LOOP TAIL ENTERS.
5. TEST ALL LOOP DETECTORS FOR CONTINUITY AND INSULATION INTEGRITY PRIOR TO SEALING THE LOOPS UNDER ASPHALT.
6. WHEN INSTALLING LOOP DETECTORS IN EXISTING PAVEMENT CUT THE CONCRETE WITH A SAW AND REMOVE ALL CONCRETE WITHIN THE SAW CUT. MATCH EXISTING PAVEMENT THICKNESS WHEN REPAIRING THE CUTOUT.
7. ALL WORK ASSOCIATED WITH INSTALLING LOOP DETECTORS IS CONSIDERED PART OF THE TRAFFIC SIGNAL ITEM AND WILL NOT BE MEASURED SEPARATELY OR PAID FOR DIRECTLY. THIS WORK INCLUDES BUT IS NOT LIMITED TO LOOP MATERIALS, JUNCTION BOXES, CONDUIT, LOOP LEAD-IN CABLE, TESTING, SPLICING, CONDUCTOR LABELING AND SAW CUTTING. ASPHALT REMOVAL AND INSTALLATION OF NEW ASPHALT SHALL BE PAID UNDER THEIR RESPECTIVE PAY ITEMS.
8. SAWCUTS AND BEDDING MATERIAL FOR THE LOOP LEAD-INS SHALL BE THE SAME AS FOR THE LOOP DETECTORS.
9. BEDDING MATERIAL FOR THE LOOP DETECTORS SHALL MEET THE REQUIREMENTS OF 703-2.01 FINE AGGREGATE FOR CONCRETE.
10. THE BEDDING MATERIAL IN THE LOOP SLOTS SHALL BE COMPACTED TO THE SATISFACTION OF THE ENGINEER PRIOR TO BEING PAVED OVER.
11. THE EXISTING 6 PAIR LOOP LEAD-IN CABLE SHALL BE REMOVED AND REPLACED WITH NEW CABLE.
12. THE CONTRACTOR SHALL SCHEDULE HIS WORK SO THAT THE LOOPS ARE REPLACED JUST PRIOR TO REPAVING. (HE SHALL NOT REPLACE THE LOOPS AND LEAVE THEM EXPOSED TO TRAFFIC WITHOUT A PAVED SURFACE OVER THEM.)
13. THE CONTRACTOR SHALL GIVE THE ENGINEER TWO WEEKS ADVANCE NOTICE BEFORE BEGINNING LOOP REPLACEMENT SO THAT THE TRAFFIC SIGNAL CAN BE REPROGRAMMED FOR THE LOOP REPLACEMENT.
14. LOOPS NO. 601 AND 602 SHALL BE EITHER REMOVED OR ABANDONED IN PLACE AS DIRECTED BY THE ENGINEER.
15. EXISTING LOOPS SHALL BE REMOVED AND NEW LOOPS SHALL BE REPLACED IN THE SAME LOCATION AS THE EXISTING.

DO NOT SCALE FROM THESE DRAWINGS.

PATH: Q:\Ktn\68140\Planset\J2_Loop Dets.dwg
Tue, 10/May/05 10:47AM dastevens
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: J2

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-TONGASS AVENUE RESURFACING
PROJECT NO. 68140

LOOP DETECTOR INSTALLATION DETAILS

DESIGNED BY: D. LESTER

STATE OF ALASKA — REGISTERED PROFESSIONAL ENGINEER — James A. Evensen — EE-8345

CHECKED BY: D. LESTER
DRAWN BY: R. SNYDER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
KTN-TONGASS AVENUE RESURFACING

LOOP DETECTOR INSTALLATION DETAILS

PROJECT DESIGNATION NUMBER	
68140 ~ IM-0902(28)	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
J2	50

CONDUIT NO.	SIZE	FROM	TO	CABLE QTY.	TYPE
1	2"	CBA2	JB1	2	6PR No.18
2	1"	JB1	NB-2	1	1PR No.14
3	1"	JB1	NB-2	1	1PR No.14
4	1"	JB1	SB-1	1	1PR No.14
5	1"	JB1	SB-2	1	1PR No.14

CONDUIT/CONDUCTOR SCHEDULE

INDUCTIVE LOOPS

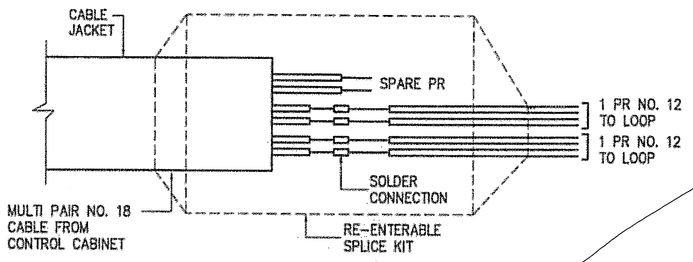
ALL INDUCTIVE LOOPS SHALL BE WOUND IN THE SAME DIRECTION WITH THE STARTING LEAD MARKED "S" PER SECTION 660-3.05.

LEAD-IN WIRES FOR EACH LOOP SHALL BE IN SEPARATE CONDUITS TO THE FIRST JUNCTION BOX. THESE CONDUITS SHALL BE SEPARATED FROM OTHER LOOPS BY A MINIMUM OF 12".

INDUCTIVE LOOPS SHALL BE INSTALLED IMMEDIATELY PRIOR TO PAVING THIS SECTION OF ROADWAY. FINAL LIFT ASPHALT PAVEMENT SHALL BE SMOOTH OVER ALL INDUCTIVE LOOPS AND WITHOUT TRANSVERSE SEAMS, JOINTS, OR ROUGHNESS WITHIN 50' OF THE LOOPS.

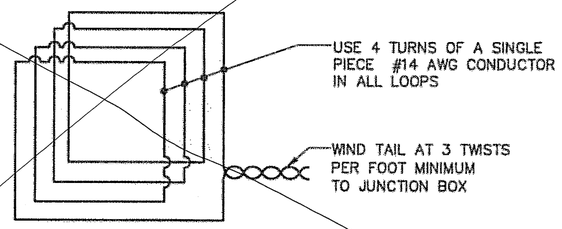
SHEET NOTES

1. INDUCTION LOOPS TO BE CENTERED IN TRAFFIC LANES.
2. DIMENSIONS ARE TYPICAL FOR ALL LANES.
3. SEE TYPICAL SECTIONS FOR DIMENSIONS.
2. SEE SUMMARY SHEET SCHEDULE.



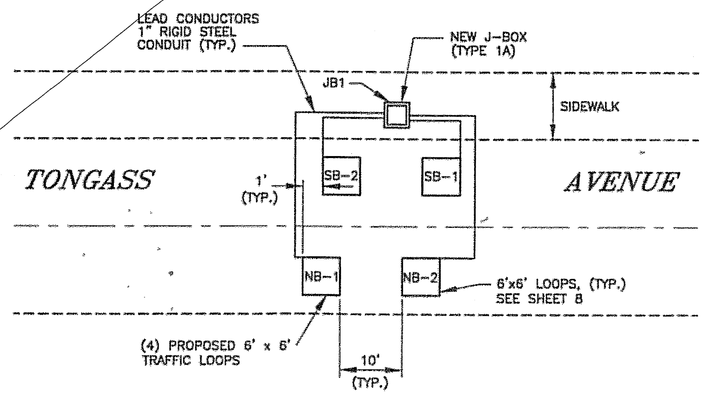
TYPICAL SPLICE DETAIL

NOTES:
1. SCHEMATIC SKETCH SHOWS AN EXAMPLE OF TWO PAIRS USED WITH ONE SPARE.
2. TERMINATE ALL SPARES WITHIN THE SPLICE BODY.
3. SPLICE BODY TO ENCLOSE ALL CABLE JACKETS.
4. SOLDER CONNECTIONS. DO NOT USE COMPRESSION CONNECTORS WRAP EACH CONDUCTOR OVER OTHER CONDUCTOR BEFORE SOLDERING.
5. USE COMMERCIAL SPLICE KITS SIMILAR OR EQUAL TO 3M PRODUCTS, TYPE 82-F1.



LOOP WIRING DETAIL

TYPICAL PVC CONDUIT ENCASED LOOP DETECTOR INSTALLATION



PLAN

TRAFFIC COUNTER TYPICAL

N.T.S.

NOT IN CONTRACT

GENERAL NOTES

1. EACH LOOP DETECTOR SHALL CONSIST OF A SINGLE PIECE OF #14 AWG CONDUCTOR INSTALLED IN 1" SCHEDULE 80 PVC CONDUIT. FORM ALL LOOPS 6'-0" SQUARE, SOLVENT WELD ALL PVC TO PVC JOINTS. USE TYPE X OUTLET BODIES THAT ARE MADE OF HOT DIP GALVANIZED STEEL TO JOIN THE LOOPS AND TAILS.
2. INSTALL 4 TURNS OF CONDUCTOR IN ALL LOOPS AND PROVIDE TAILS THAT EXTEND TO THE JUNCTION BOX SPECIFIED ON THE PLANS. USE #14 AWG CONDUCTOR IN A POLYETHYLENE TUBE CONFORMING TO IMSA SPECIFICATION 51-5. WIND THE TAIL CONDUCTORS TOGETHER AT A RATE OF 3 TWISTS PER FOOT.
3. INSTALL ALL LOOP DETECTORS PRIOR TO OVERLAYING EXISTING PAVEMENT OR PAVING A NEW ROADWAY.
4. INSTALL ALL LOOP DETECTORS SLOPED TO DRAIN INTO THE JUNCTION BOX THE LOOP TAIL ENTERS.
5. 12" MINIMUM CLEARANCE IS REQUIRED BETWEEN A LOOP AND A TAIL OR BETWEEN TAILS. LOOP TAILS SHALL NOT CROSS LOOP CONDUITS.
6. TEST ALL LOOP DETECTORS FOR CONTINUITY AND INSULATION INTEGRITY PRIOR TO SEALING THE LOOPS UNDER ASPHALT.
7. WHEN INSTALLING LOOP DETECTORS IN EXISTING PAVEMENT, CUT THE ASPHALT WITH A SAW AND REMOVE ALL ASPHALT WITHIN THE SAW CUT. MATCH EXISTING PAVEMENT THICKNESS WHEN REPAIRING THE CUTOUT.
8. WHERE EXISTING PAVEMENT WILL NOT BE OVERLAID, ENCLOSE ALL LOOPS THAT ENTER A COMMON JUNCTION BOX WITHIN A TRAPEZOIDAL SAW CUT. CUT TO WITHIN 12" OF THE LANE AND EDGE LINES, PRESERVING THESE PAVEMENT MARKINGS; REMOVE THE ASPHALT TO THE LIP OF THE GUTTER WHEN THERE ARE NO EDGE LINES. CUT ACROSS LANE LINES WHEN LOOPS IN ADJACENT LANES ARE SIDE BY SIDE. CUT TRENCHES A MINIMUM OF 3 FEET WIDE WHEN INSTALLING LOOP TAILS ACROSS A LANE; TRENCHES CROSSING A SHOULDER ONLY MAY BE A MINIMUM 12" WIDE.
9. HEAT AND TACK COAT THE EDGES OF EXISTING PAVEMENT PRIOR TO PAVING THE CUTOUTS. COMPACT THE ASPHALT MIXTURE WITH A SELF PROPELLED STEEL WHEELED ROLLER. THE ASPHALT MIX SHALL CONFORM TO SECTION 401 OF THE SPECIFICATIONS, AND APPROVED FOR USE BY THE ENGINEER.
10. MAINTAIN THE REPLACEMENT ASPHALT MIX AT A TEMPERATURE OF 225°F UNTIL THE TIME OF APPLICATION; IF NECESSARY, STORE THE MIX IN AN INSULATED BOX TO MAINTAIN THE SPECIFIED TEMPERATURE.
11. ALL WORK ASSOCIATED WITH INSTALLING LOOP DETECTORS IS CONSIDERED PART OF THE 669(1) ITEM AND WILL NOT BE MEASURED SEPARATELY OR PAID FOR DIRECTLY. THIS WORK INCLUDES BUT IS NOT LIMITED TO: LOOP MATERIALS, JUNCTION BOXES, CONDUIT, LOOP LEAD IN CABLE, TESTING, SPLICING, CONDUCTOR LABELING AND SAW CUTTING. ASPHALT REMOVAL AND INSTALLATION OF NEW ASPHALT SHALL BE PAID UNDER THEIR RESPECTIVE PAY ITEMS.
12. TO ESTABLISH THE REFERENCE LINES, EXTEND THE RIGHT EDGES OF THE OUTERMOST THROUGH LANES ACROSS THE INTERSECTION. IF THE ROADWAY GEOMETRY IS CURVED, EXTEND THE CURVE THROUGH THE INTERSECTION.

DO NOT SCALE FROM THESE DRAWINGS.

PATH: Q:\Ktn\68140\Planset\J3_PTR Dets.dwg
Tue, 10/May/05 10:54AM dastevens
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: J4

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-TONGASS AVENUE RESURFACING
PROJECT NO. 68140

PTR-LOOP DETECTOR DETAILS

DESIGNED BY: K. MATTSON

STATE OF ALASKA — James A. Evensen — CE-8345 — REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: R. PURVES

DRAWN BY: R. SNYDER

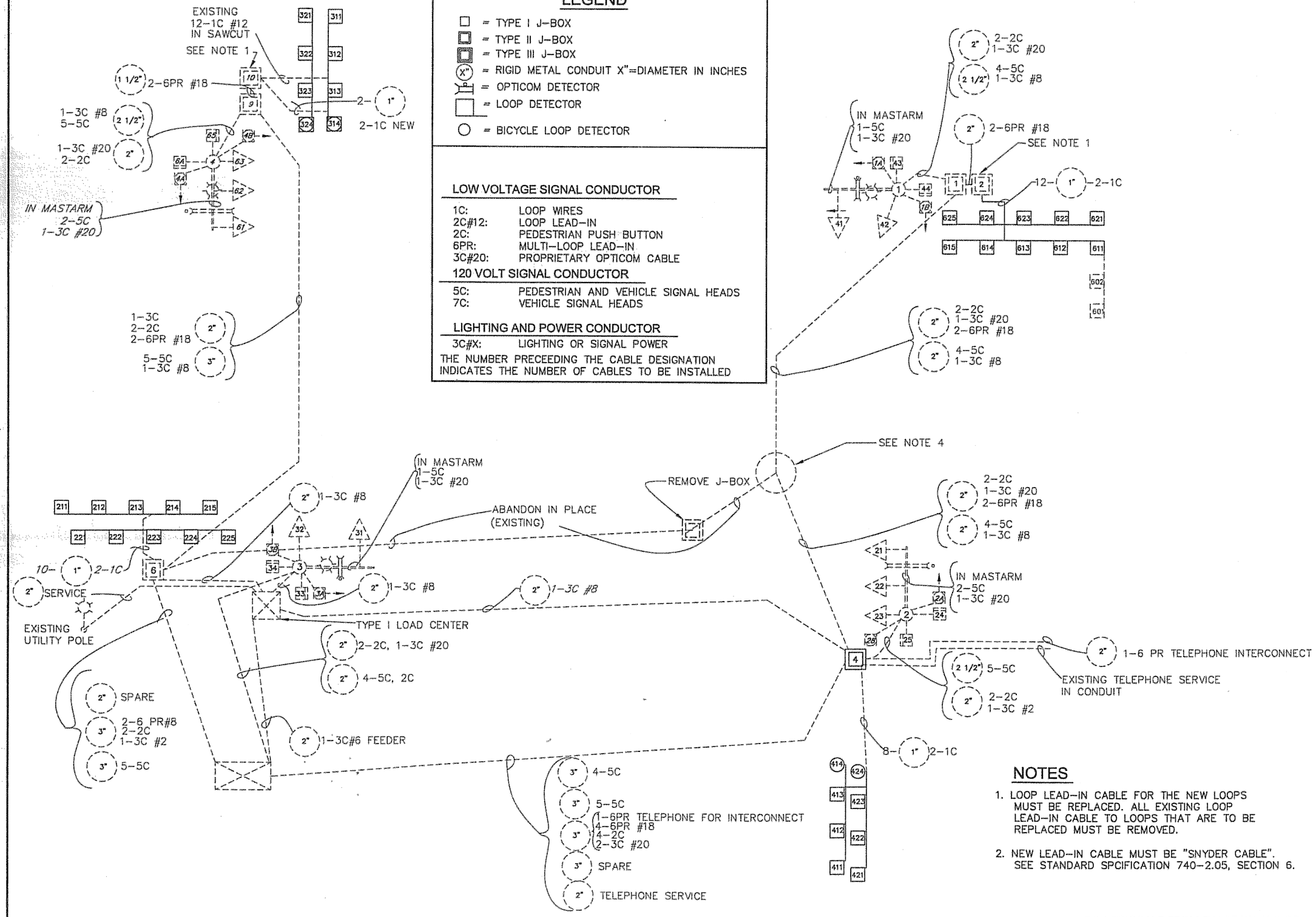
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

KTN-TONGASS AVENUE RESURFACING

PTR-LOOP DETECTOR DETAILS

PROJECT DESIGNATION NUMBER
68140 ~ IM-0902(28)

STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
J3	50



LEGEND

- = TYPE I J-BOX
- = TYPE II J-BOX
- = TYPE III J-BOX
- = RIGID METAL CONDUIT X"=DIAMETER IN INCHES
- = OPTICOM DETECTOR
- = LOOP DETECTOR
- = BICYCLE LOOP DETECTOR

LOW VOLTAGE SIGNAL CONDUCTOR

1C:	LOOP WIRES
2C#12:	LOOP LEAD-IN
2C:	PEDESTRIAN PUSH BUTTON
6PR:	MULTI-LOOP LEAD-IN
3C#20:	PROPRIETARY OPTICOM CABLE

120 VOLT SIGNAL CONDUCTOR

5C:	PEDESTRIAN AND VEHICLE SIGNAL HEADS
7C:	VEHICLE SIGNAL HEADS

LIGHTING AND POWER CONDUCTOR

3C#X:	LIGHTING OR SIGNAL POWER

THE NUMBER PRECEEDING THE CABLE DESIGNATION INDICATES THE NUMBER OF CABLES TO BE INSTALLED

NOTES

1. LOOP LEAD-IN CABLE FOR THE NEW LOOPS MUST BE REPLACED. ALL EXISTING LOOP LEAD-IN CABLE TO LOOPS THAT ARE TO BE REPLACED MUST BE REMOVED.
2. NEW LEAD-IN CABLE MUST BE "SNYDER CABLE". SEE STANDARD SPCIFICATION 740-2.05, SECTION 6.

DO NOT SCALE FROM THESE DRAWINGS.

PATH:
O:\Ktn\68140\Planset\J4_WiringSch.dwg
Tue, 10/May/05 10:49AM dastevens
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: J4

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-TONGASS AVENUE
RESURFACING
PROJECT NO. 68140

JEFFERSON STREET WIRING SCHEMATIC

DESIGNED BY: K. MATTSON

STATE OF ALASKA
James A. Evensen
CE-8345
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: R. PURVES
DRAWN BY: R. SNYDER

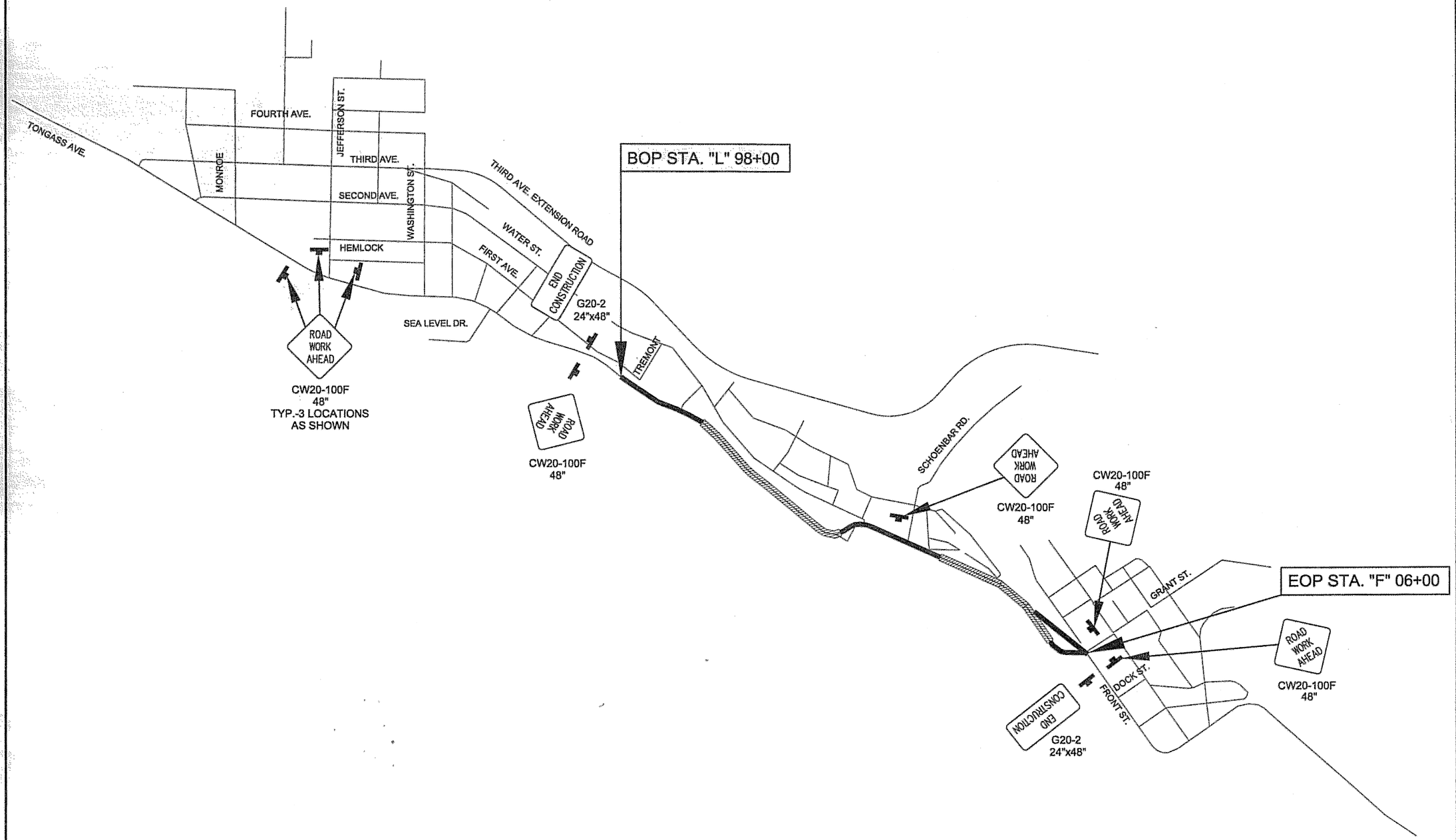
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

KTN-TONGASS AVENUE RESURFACING

JEFFERSON ST. WIRING SCEMATIC

PROJECT DESIGNATION NUMBER
68140 ~ IM-0902(28)

STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
J4	50



DO NOT SCALE FROM THESE DRAWINGS.

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TAB: A2

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-TONGASS AVENUE
RESURFACING
PROJECT NO. 68140

PERMANENT CONSTRUCTION SIGNING

DESIGNED BY: MATTSON/PURVES

STATE OF ALASKA
James A. Evanssen
CE-8345
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: L. GREGOVICH

DRAWN BY: D. STEVENS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

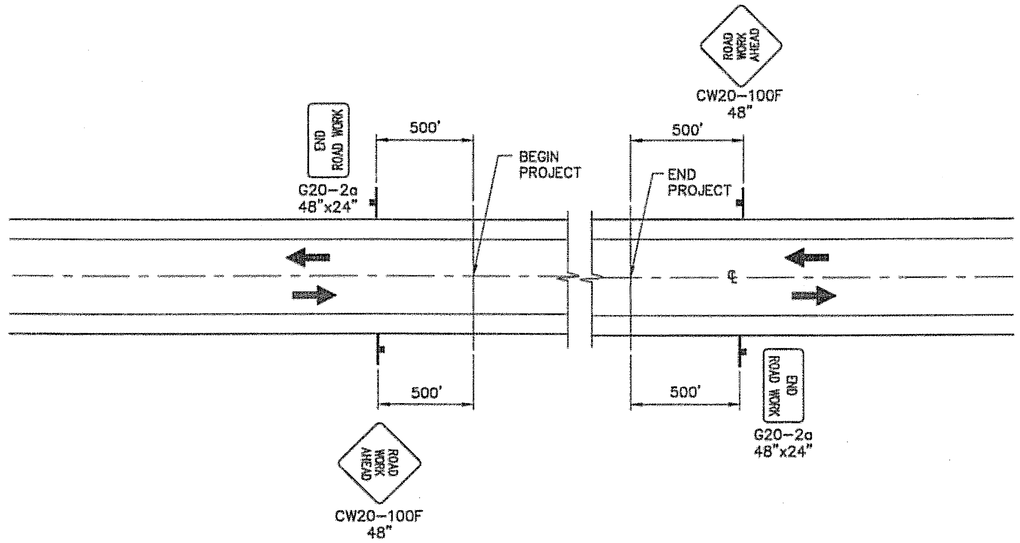
KTN-TONGASS AVENUE RESURFACING

PERMANENT CONSTRUCTION SIGNING

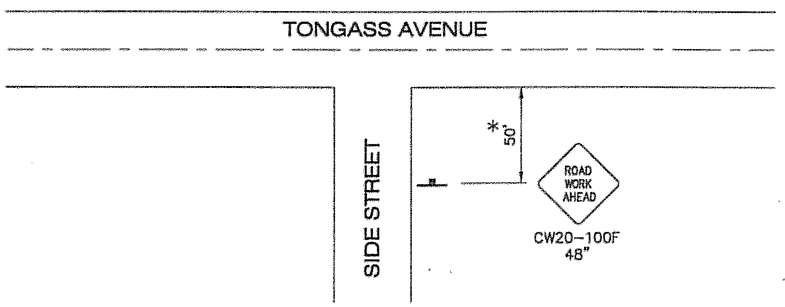
PROJECT DESIGNATION NUMBER	
68140 ~ IM-0902(28)	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
K1	50

TRAFFIC CONTROL NOTES:

1. A MINIMUM OF ONE LANE SHALL BE MAINTAINED AT ALL TIMES THROUGH THE WORK AREA. TRAFFIC LANES SHALL BE A MINIMUM OF 10 FT. WIDE.
2. THE MAXIMUM LENGTH OF A WORK ZONE SHALL BE 700 FT. THIS LENGTH INCLUDES THE WORK AREA, BUFFER ZONES AND TAPERS. (THE 700 FT. DOES NOT INCLUDE THE ADVANCED SIGNING.)
3. TWO LANES, TWO-WAY TRAFFIC SHALL BE MAINTAINED 12-1 PM, 4-6 PM WEEK DAYS, AND 12-6 PM ON WEEK ENDS AND HOLIDAYS. IN ADDITION, TWO LANE TWO-WAY TRAFFIC SHALL BE MAINTAINED IN NON-WORK AREAS DURING NON-WORK HOURS.
4. CONSTRUCTION SIGNING SHALL ONLY BE IN PLACE WHEN THE CONDITIONS EXIST FOR WHICH THE SIGNS ARE INTENDED.
5. WORK ZONE DOUBLE TRAFFIC SIGNS SHALL BE USED AS DIRECTED BY THE ENGINEER AND PER STANDARD DRAWING C-04.12.
6. TEMPORARY PAVEMENT MARKINGS WILL BE REQUIRED AS DESCRIBED IN SECTION 643 OF THE SPECIFICATIONS.
7. PROPER NIGHTTIME LIGHTING SHALL BE REQUIRED AS DESCRIBED IN THE MUTCD, SECTIONS 6F.69 THROUGH 6F.73 SPECIFICALLY, 1)FLOODLIGHTING SHALL BE USED ON ALL NIGHTTIME FLAGGING OPERATIONS, AND 2) WARNING LIGHTS SHALL BE USED ON ALL CHANNELIZING DEVICES PLACED ALONG OR AROUND ROADWAY HAZARDS AS DIRECTED BY THE ENGINEER.
8. BEFORE REPLACING THE TRAFFIC LOOPS AT THE JEFFERSON ST. SIGNAL, THE CONTRACTOR SHALL GIVE THE ENGINEER 7 DAYS ADVANCED NOTICE SO THAT APPROPRIATE TIMING CHANGES CAN BE MADE. NO WORK ON THE LOOPS SHALL COMMENCE UNTIL THE TIMING CHANGES HAVE BEEN EFFECTED. LOOP REPLACEMENT SHALL ONLY BE DONE BETWEEN HOURS OF 6 PM AND 6 AM.
9. APPROACHES TO BUSINESSES AND RESIDENCES SHALL BE KEPT OPEN WITH THESE EXCEPTIONS: 1) APPROACHES MAY BE CLOSED WHILE ACTUAL HYDRODEMOLITION IS TAKING PLACE, 2) APPROACH MAY BE CLOSED FOR UP TO 3 DAYS WHILE MMC OVERLAY IS CURING, AND 3) APPROACHES WILL BE CLOSED WHILE ACTUAL PAVING IS TAKING PLACE.
10. IT IS THE INTENT OF THIS TRAFFIC CONTROL PLAN (TCP) TO ILLUSTRATE SOME BUT NOT ALL OF THE TRAFFIC CONTROL CONFIGURATIONS THAT WILL BE REQUIRED BY THIS PROJECT. TRAFFIC CONTROL PLANS FOR CONFIGURATIONS NOT COVERED BY THIS TCP SHALL BE DEVELOPED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO USE.



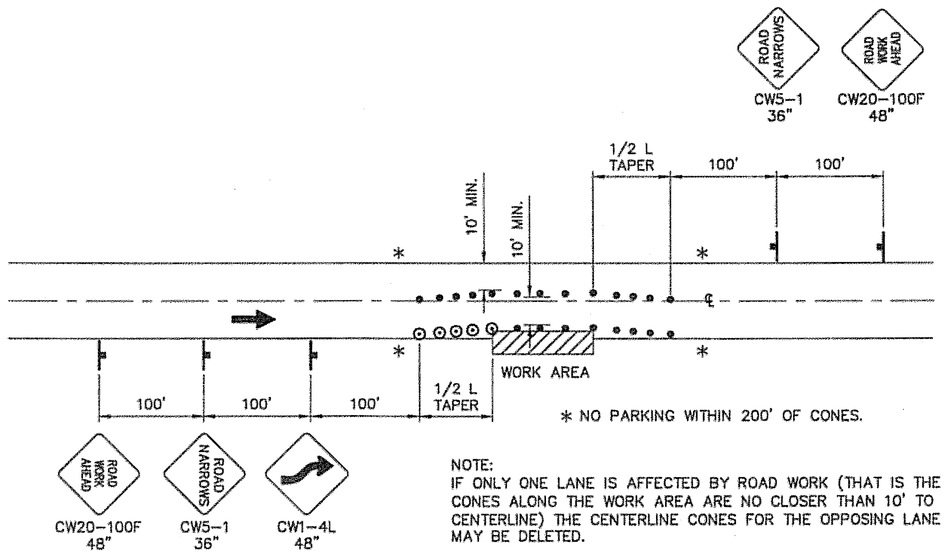
PERMANENT CONSTRUCTION SIGNING



PERMANENT CONSTRUCTION SIGNING

SIDE STREETS

* OR AS DIRECTED BY THE ENGINEER
USE FOR SCHOENBAR RD. & GRANT ST.



NOTE:
IF ONLY ONE LANE IS AFFECTED BY ROAD WORK (THAT IS THE CONES ALONG THE WORK AREA ARE NO CLOSER THAN 10' TO CENTERLINE) THE CENTERLINE CONES FOR THE OPPOSING LANE MAY BE DELETED.

ROADWAY ENCROACHMENT

DO NOT SCALE FROM THESE DRAWINGS.

PATH:
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Tue, 10/May/05 10:56AM dastevens
PLOT:
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TAB: K1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-TONGASS AVENUE
RESURFACING
PROJECT NO. 68140

TRAFFIC CONTROL PLAN

DESIGNED BY: M. LUKSHIN

STATE OF ALASKA
James A. Evenson
CE-8345
REGISTERED PROFESSIONAL ENGINEER

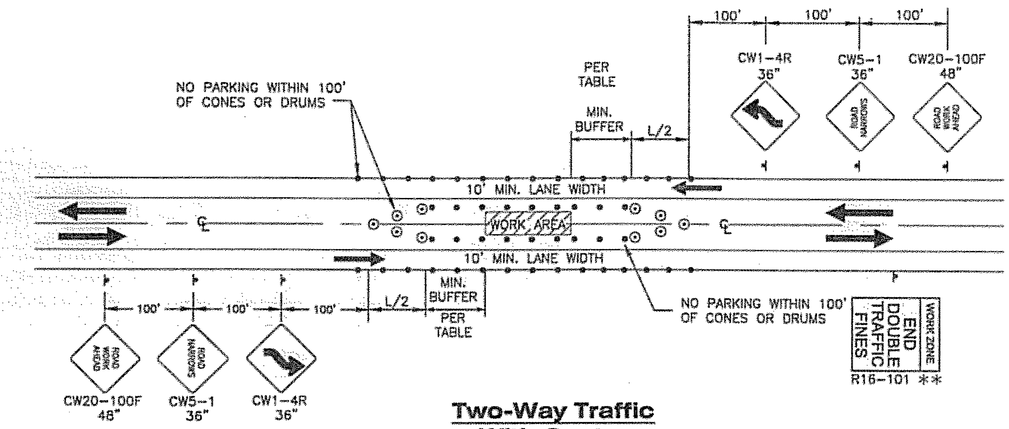
CHECKED BY: R. PURVES
DRAWN BY: R. SNYDER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

KTN-TONGASS AVENUE RESURFACING

TRAFFIC CONTROL PLAN

PROJECT DESIGNATION NUMBER	
68140 ~ IM-0902(28)	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
K2	50



Two-Way Traffic With Center Closure

Legend

- SIGN
- CONE OR CANDLE
- DRUM
- TYPE III BARRICADE
- FLAGGING STATION

FORMULAS FOR L (TAPER LENGTH)

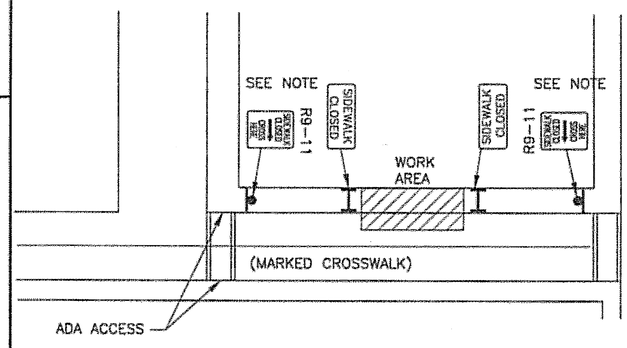
40 MPH OR LESS $L = \frac{WxS^2}{60}$

45 MPH OR GREATER $L = WxS$

WHERE W= WIDTH OF OFFSET
S= POSTED SPEED LIMIT

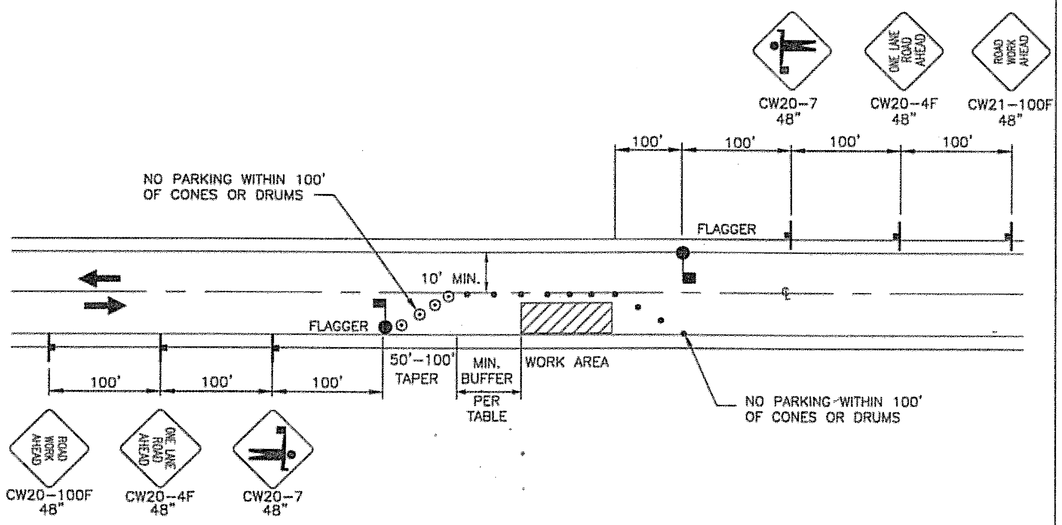
DRUM OR CONE SPACING = S (IN FEET)

MIN. BUFFER	
S	LENGTH
20	35
25	55
30	85
35	120
40	170
45	220
50	280
55	335
60	415
65	485

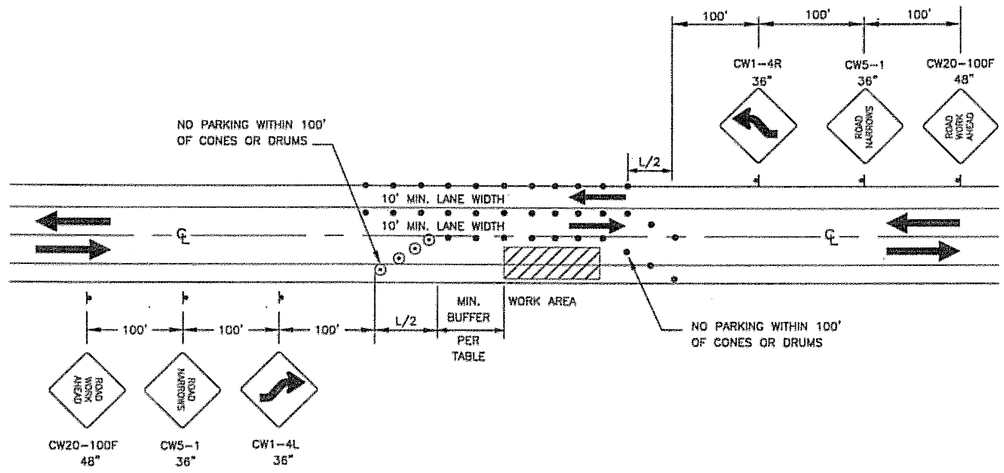


Pedestrian Detour Detail

NOTE: IF PRACTIBLE USE EXISTING CROSSWALKS.



Single Lane Closure Two Lane Road



Two-Way Traffic

DO NOT SCALE FROM THESE DRAWINGS.

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PLOT:
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ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-TONGASS AVENUE
RESURFACING
PROJECT NO. 68140

TRAFFIC CONTROL PLAN

DESIGNED BY: K. MATTSON

STATE OF ALASKA
James A. Evensen
CE-8345
REGISTERED PROFESSIONAL ENGINEER

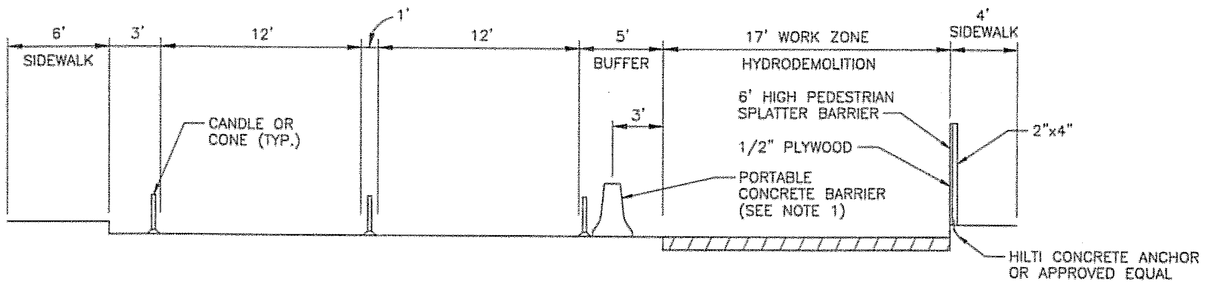
CHECKED BY: K. MATTSON
DRAWN BY: D. STEVENS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

KTN-TONGASS AVENUE RESURFACING

TRAFFIC CONTROL PLAN

PROJECT DESIGNATION NUMBER	
68140 ~ IM-0902(28)	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
K3	50

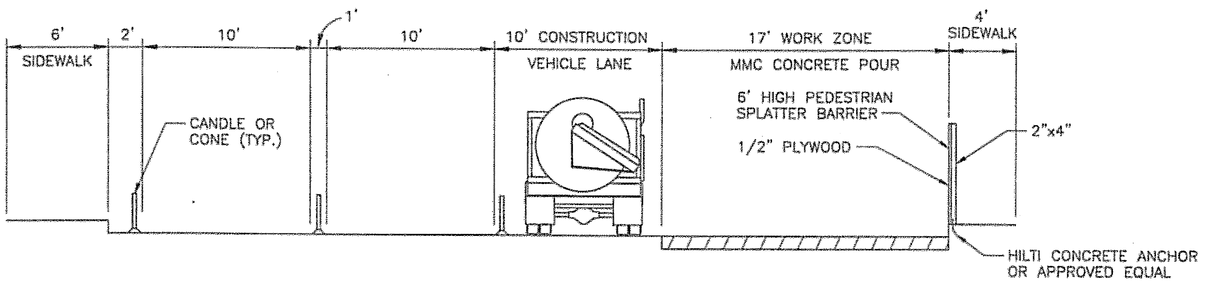


A-A TYPICAL LANE CONFIGURATION

DURING HYDRODEMOLITION

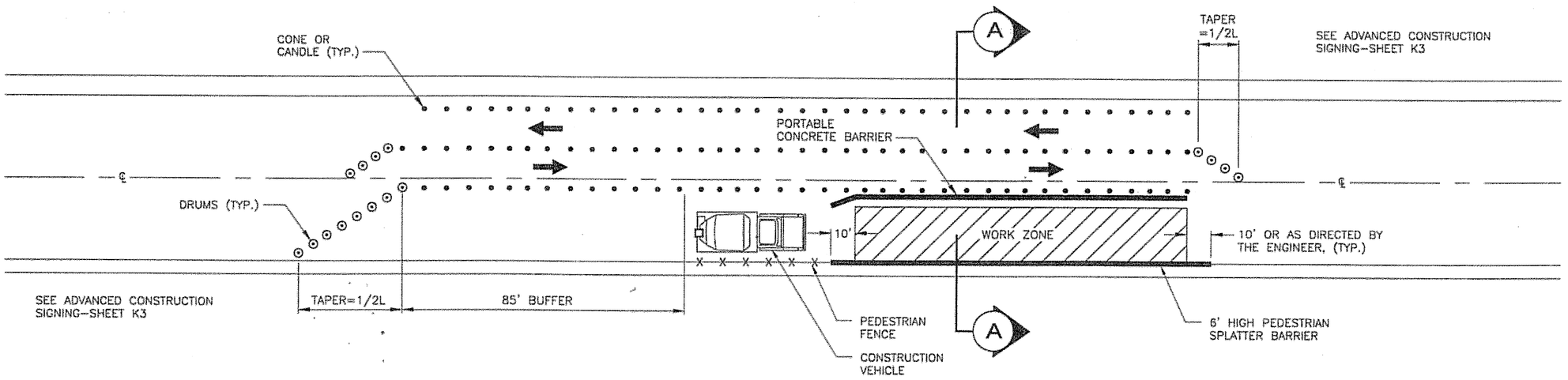
NOTES:

1. WATER FILLED BARRIER OR OTHER NCHRP 350 BARRIER MAY BE USED IN LIEU OF PORTABLE CONCRETE BARRIER.
2. CONCRETE BARRIER (OR OTHER APPROVED LONGITUDINAL BARRIER) SHALL HAVE NCHRP 350 APPROVED ENDS.



A-A TYPICAL LANE CONFIGURATION

DURING MMC CONCRETE POUR



TYPICAL HYDRODEMOLITION/MMC CONCRETE POUR WORK ZONE

DO NOT SCALE FROM THESE DRAWINGS.

PATH:
Q:\Ktn\68140\Planset\USKH-TCP5.dwg
Tue, 10/May/05 10:59AM dstevens
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: K2

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-TONGASS AVENUE
RESURFACING
PROJECT NO. 68140

TRAFFIC CONTROL PLAN

DESIGNED BY: K. MATTSON

STATE OF ALASKA
JAMES A. EVENSEN
CE-8345
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: K. MATTSON
DRAWN BY: D. STEVENS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION

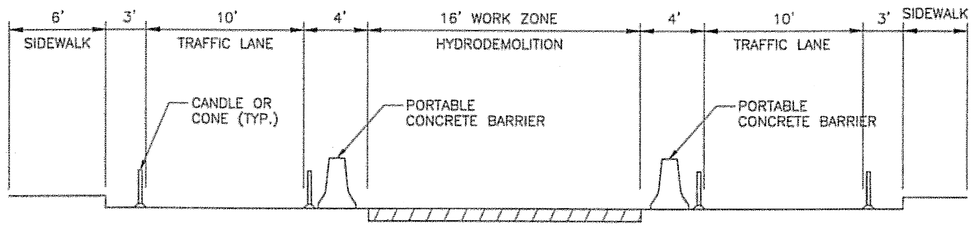
KTN-TONGASS AVENUE
RESURFACING

TRAFFIC CONTROL PLAN

PROJECT DESIGNATION NUMBER	
68140 ~ IM-0902(28)	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
K4	50

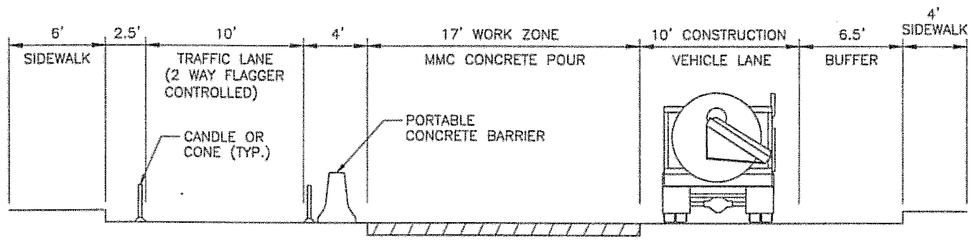
NOTES:

1. WATER FILLED BARRIER OR OTHER NCHRP 350 BARRIER MAY BE USED IN LIEU OF PORTABLE CONCRETE BARRIER.
2. CONCRETE BARRIER (OR OTHER APPROVED LONGITUDINAL BARRIER) SHALL HAVE NCHRP 350 APPROVED ENDS.



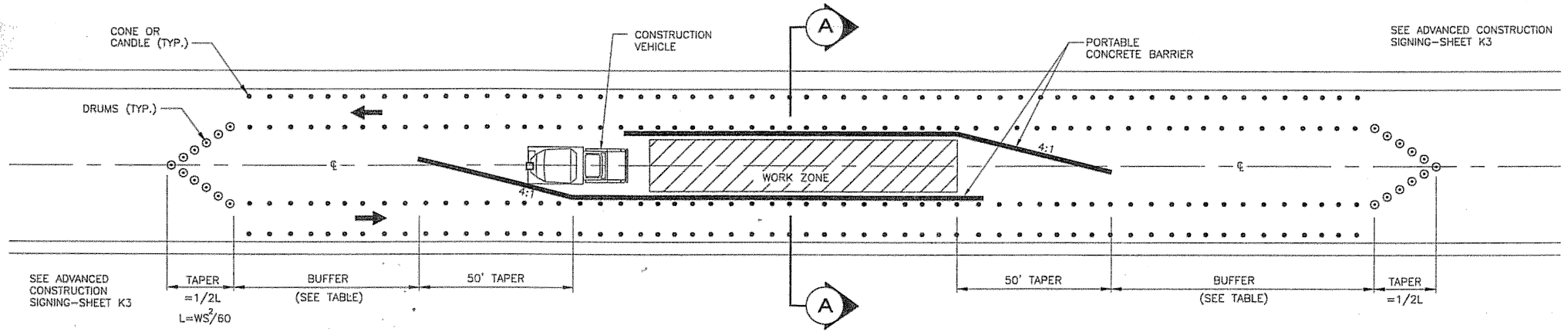
A-A TYPICAL LANE CONFIGURATION

DURING HYDRODEMOLITION



A-A TYPICAL LANE CONFIGURATION

DURING MMC CONCRETE POUR



TYPICAL HYDRODEMOLITION/MMC CONCRETE POUR WORK ZONE

DO NOT SCALE FROM THESE DRAWINGS.

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Tue, 10/May/05 10:59AM dastevens
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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-TONGASS AVENUE
RESURFACING
PROJECT NO. 68140

TRAFFIC CONTROL PLAN

DESIGNED BY: K. MATTSON

STATE OF ALASKA
James A. Evensen
CE-8345
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: K. MATTSON

DRAWN BY: D. STEVENS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

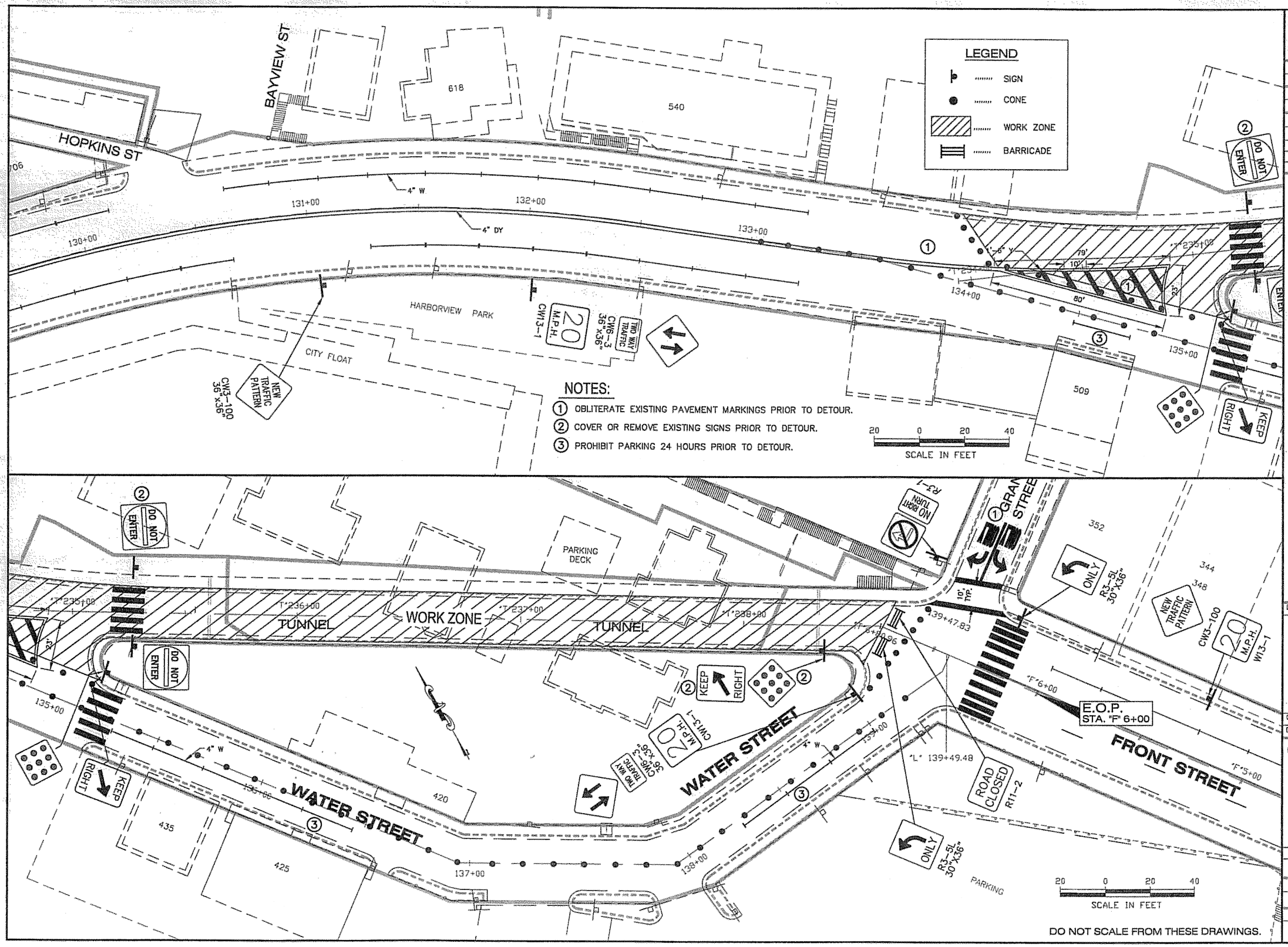
KTN-TONGASS AVENUE RESURFACING

TRAFFIC CONTROL PLAN

PROJECT DESIGNATION NUMBER
68140 ~ IM-0902(28)

STATE	YEAR
ALASKA	2005

SHEET NUMBER	TOTAL SHEETS
K5	50



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PLOT:
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TAB: H7

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-TONGASS AVENUE
RESURFACING
PROJECT NO. 68140

WATER STREET DETOUR TUNNEL CLOSURE

DESIGNED BY: D. LESTER

STATE OF ALASKA
James A. Evensen
CE-8345
REGISTERED PROFESSIONAL ENGINEER
10 May 05

CHECKED BY: D. LESTER
DRAWN BY: L. ROBERTSON

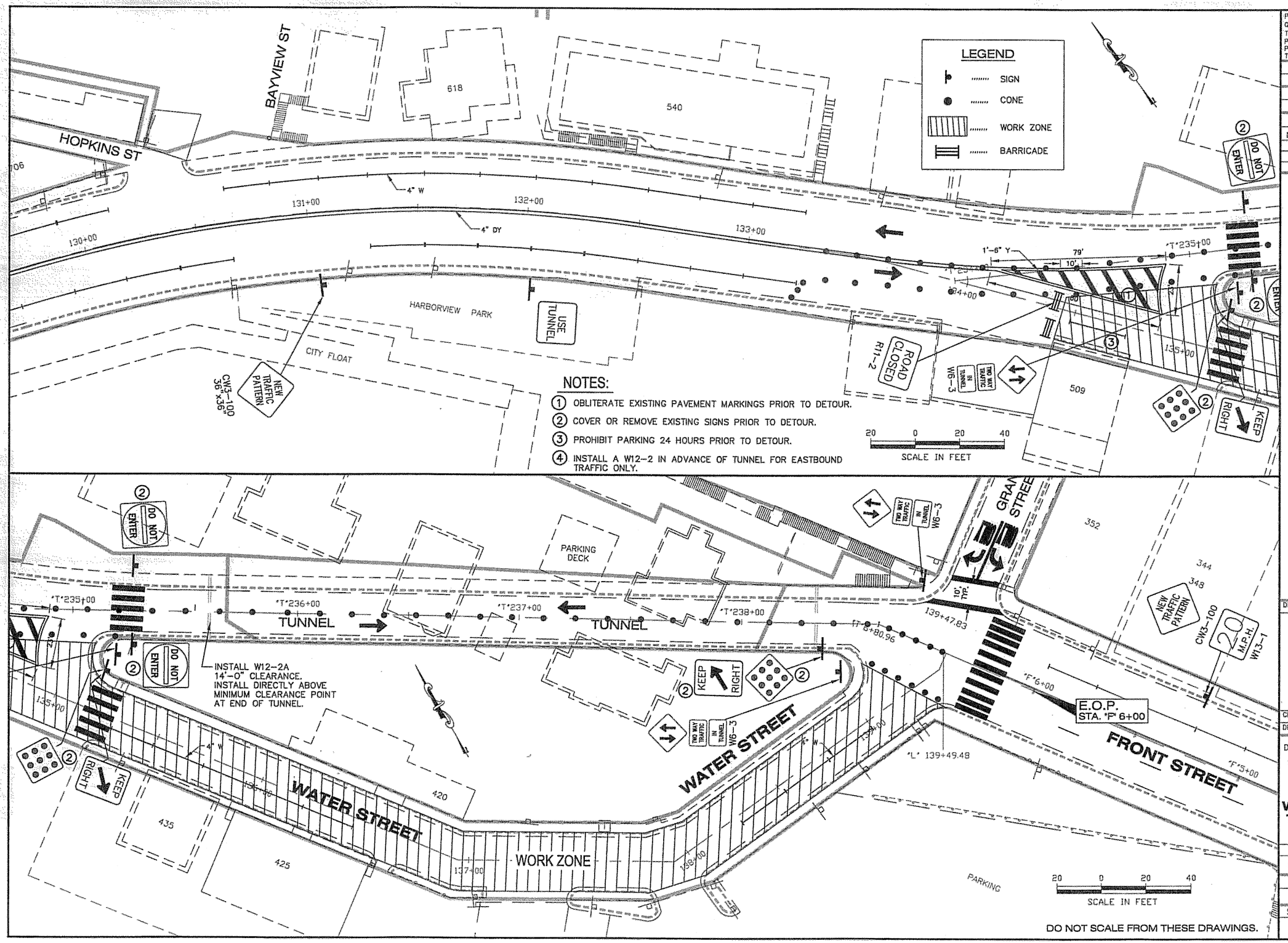
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

KTN-TONGASS AVENUE
RESURFACING

WATER STREET DETOUR TUNNEL CLOSURE

PROJECT DESIGNATION NUMBER
68140 ~ IM-0902(28)

STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
K6	50



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TAB: H7

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-TONGASS AVENUE
RESURFACING
PROJECT NO. 68140

WATER STREET DETOUR TWO WAY TRAFFIC IN TUNNEL

DESIGNED BY: D. LESTER

STATE OF ALASKA
1910
James A. Evenson
CE-8345
REGISTERED PROFESSIONAL ENGINEER
13 May 05

CHECKED BY: D. LESTER

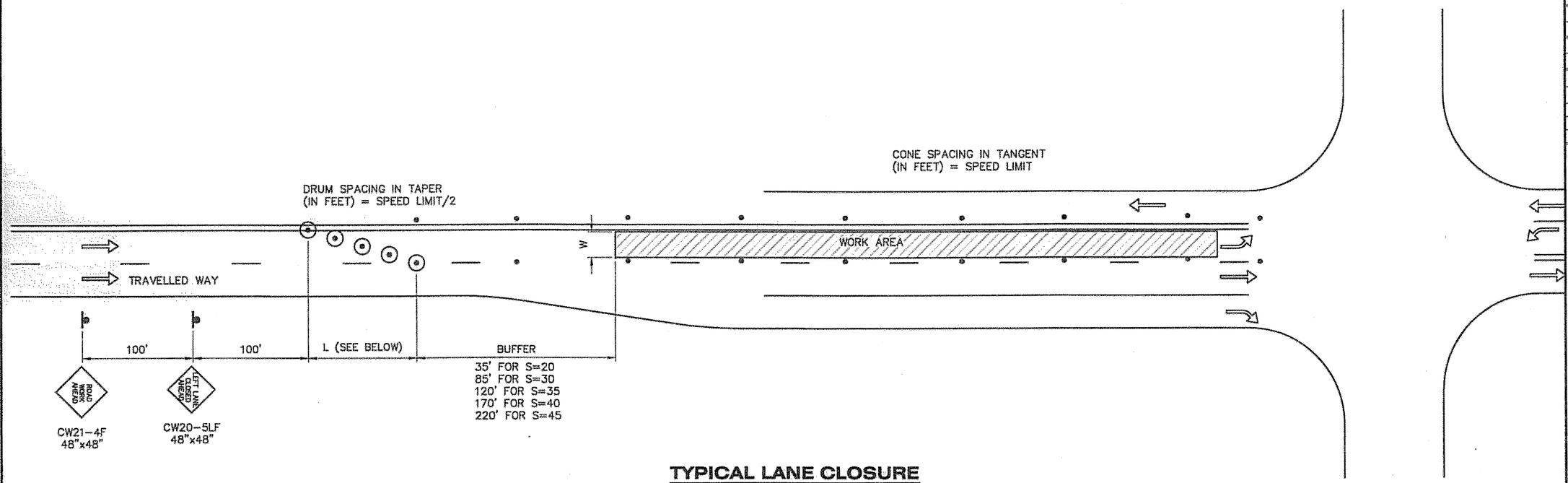
DRAWN BY: L. ROBERTSON

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

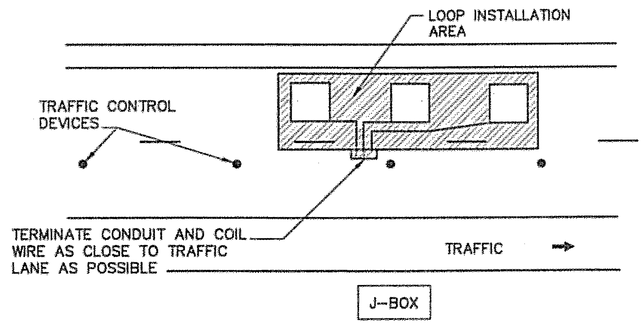
KTN-TONGASS AVENUE
RESURFACING

WATER ST. DETOUR TWO WAY TRAFFIC IN TUNNEL

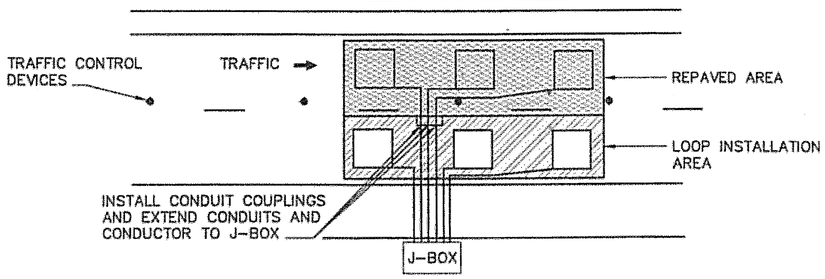
PROJECT DESIGNATION NUMBER	
68140 ~ IM-0902(28)	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
K7	50



TYPICAL LANE CLOSURE ON UNDIVIDED HIGHWAY



FAR LANE LOOP INSTALLATION



NEAR LANE LOOP INSTALLATION

NOTES:

1. WHEN LOOP LEAD-IN CONDUIT EXTENDS ACROSS OTHER TRAFFIC LANES WHICH WILL BE OPEN TO TRAFFIC WHILE THE LOOPS ARE BEING INSTALLED THE CONDUIT SHALL BE EXTENDED AS FAR TOWARD THE OPEN LANE AS POSSIBLE AND EXTRA LOOP CONDUCTOR SHALL BE COILED AT THE EDGE OF THE LANE. THE CONDUIT AND CONDUCTOR SHALL BE EXTENDED ACROSS THE LANE TO THE ROADSIDE J-BOX WHEN THE ADJACENT LANE IS CLOSED TO TRAFFIC AND IT'S PAVEMENT IS REMOVED.
2. WHEN LOOP LEAD-IN CONDUIT EXTENDS ACROSS OTHER TRAFFIC LANES LOOP INSTALLATION SHALL START WITH THE LANE FURTHEST FROM THE J-BOX THE CONDUIT WILL TERMINATE IN.
3. ALTHOUGH PAVED-OVER LOOPS ARE SHOWN, THE SAME CONSTRUCTION SEQUENCES APPLIES TO LOOPS IN A NARROW SLOT.

LEGEND

- ..... SIGN
- ..... CONE
- ..... DRUM
- ..... FLAGGING STATION

DO NOT SCALE FROM THESE DRAWINGS.

PATH:
O:\Ktn\68140\Planset\USKH-TCP8.dwg
Tue, 10/May/05 11:01AM dastevens
PLOT:
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TAB: K3

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-TONGASS AVENUE
RESURFACING
PROJECT NO. 68140

TRAFFIC CONTROL PLAN

DESIGNED BY: M. LUKSHIN

STATE OF ALASKA
James A. Eversen
CE-8345
REGISTERED PROFESSIONAL ENGINEER

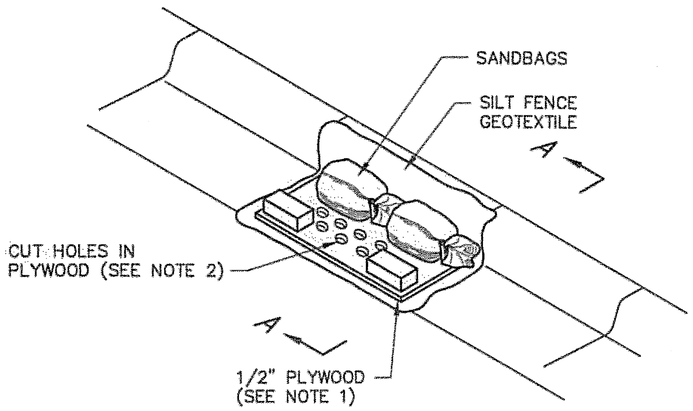
CHECKED BY: R. PURVES
DRAWN BY: R. SNYDER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

KTN-TONGASS AVENUE RESURFACING

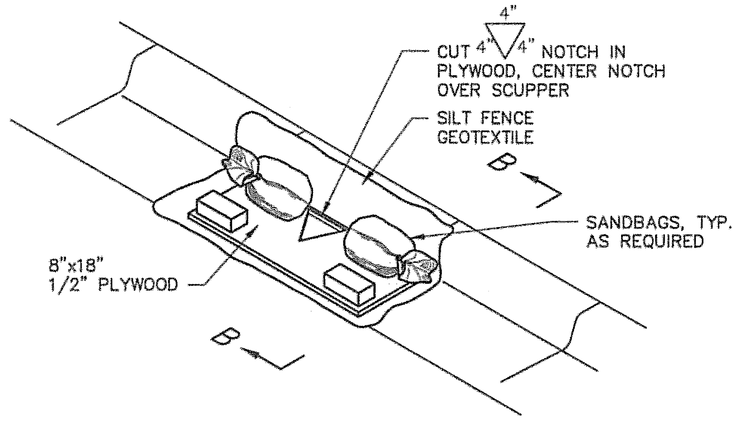
TRAFFIC CONTROL PLAN

PROJECT DESIGNATION NUMBER	
68140 ~ IM-0902(28)	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
K8	50



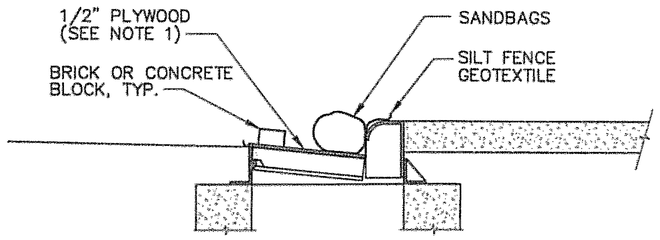
INLET PROTECTION

(ISOMETRIC VIEW)

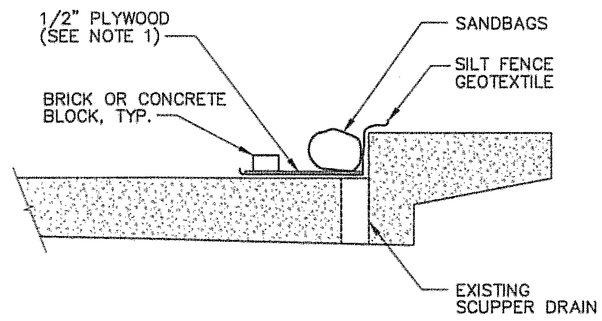


SCUPPER PROTECTION

(ISOMETRIC VIEW)



SECTION A - A



SECTION B - B

NOTES:

1. 1/2" PLYWOOD FOR INLET PROTECTION SHALL BE CUT TO MATCH THE EXISTING INLET FRAME DIMENSIONS.
2. 1.5" MINIMUM HOLES SHALL BE CUT INTO THE PLYWOOD SHEETS FOR INLET PROTECTION. A NET AREA OF 25 SQUARE INCHES OF HOLES, NOT COVERED BY SANDBAGS, BRICKS OR OTHER BALLAST, SHALL BE PROVIDED.
3. SUFFICIENT BALLAST (SANDBAGS, BRICKS, BLOCKS OR OTHER SUITABLE MATERIAL) SHALL BE USED TO PREVENT WATER FROM FLOWING UNDER OR AROUND THE SILT FENCE FABRIC.

ESCP PLAN

THESE ESCP SHEETS (L1–L6) ARE SUPPLEMENTED BY THE ESCP NARRATIVE CONTAINED IN APPENDIX D.

DO NOT SCALE FROM THESE DRAWINGS.

PATH:
Q:\Ktn\68140\Planset\L-ESCP.dwg
Tue, 10/May/05 11:14AM
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: F1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

KTN-TONGASS AVENUE
RESURFACING
PROJECT NO. 68140

ESCP PLAN AND DETAILS

DESIGNED BY: L. GREGOVICH

STATE OF ALASKA
49th
Lars R. Gregovich
CE-8065
REGISTERED PROFESSIONAL ENGINEER
5.13.05

CHECKED BY: D. LESTER
DRAWN BY: R. SNYDER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

KTN-TONGASS AVENUE RESURFACING

ESCP PLAN AND DETAILS

PROJECT DESIGNATION NUMBER	
68140 ~ IM-0902(28)	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
L1	50

PATH:
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Tue, 10/May/05 11:14AM
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: F1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

B.O.P. STA. "L" 98+00

98+00

99+00

100+00

101+00

102+00

S68°59'14"E
267.07'

TONGASS AVENUE

S60°35'21"E
125.75'

104+00

105+00

106+00

107+00

S40°22'52"E
829.8'

103+00

108+00

TREMONT ST.

STREAM

MINI STORE & DELI
1638

PERFECT 10 & TAN
1630

PANHANDLE RIGGING
1600

1624

1722

1712

1712

1702

1734

1715

1705

1719

1647

1601
AIR SEA TRAVEL

1427

1429

1450

1448

1442

HOUSE
1516

GARAGE

PARKING

PROMECH AIR

THE CEDARS LODGE

SILVER LINING SEAFOODS

ASPHALT PARKING LOT

PT = 100+63.49

PRC = 99+13.24

PC = 103+19.15

PT = 104+03.13

PC = 105+28.88

PT = 107+30.96

PC = 108+13.94

STA BK: "L" 100+79.10
STA AHD: "L" 100+67.78

BEGIN ALT. A & ALT. B

(XX) DENOTES VIADUCT BENT NUMBER

LEGEND

INLET PROTECTION

SCUPPER PROTECTION

20 0 20 40
SCALE IN FEET

DO NOT SCALE FROM THESE DRAWINGS.

B.O.P.

SHEET L2

E.O.P.

KEY PLAN

DESIGNED BY: L. GREGOVICH

STATE OF ALASKA
49th
Lars R. Gregovich
CE-8065
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: D. LESTER

DRAWN BY: R. SNYDER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

KTN-TONGASS AVENUE RESURFACING

ESCP PLAN STA. 98+00 TO 108+50

PROJECT DESIGNATION NUMBER
68140 ~ IM-0902(28)

STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
L2	50

PATH:
O:\Ktn\68140\Planset\L-ESCP.dwg
Tue, 10/May/05 11:15AM
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: F2

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PARKING
DECK
DECK
PC = 109+14.46
PIC = 110+45.73
PT = 110+97.43
1414
1410
24
23
22
21
20
19
18
109+00
S50°25'58"E
131.27'
110+00
TONGASS AVENUE
111+00
112+00
S55°36'09"E
560.15'
113+00
114+
WATER
ALASKA
OUTBOARD
1405
ROLLER BAY
DECK
17
16
15
14
13
12
PARKING DECK
11
10
CARLIN AIR
1249
9
8
bcs COMPUTOR
SYSTEMS
7

B.O.P.

SHEET
L3

E.O.P.

LEGEND

INLET PROTECTION

SCUPPER PROTECTION

1228
DECK
S.E. BUSINESS
MACHINES
1216
LUTHERAN CHURCH
PC = 116+57.58
PT = 119+56.21
END
ALT. A &
ALT. B
119+00
N45°09'00"E 45.48'
PC = 119+01.69
PT = 120+14.32
114+00
S55°36'09"E
560.15'
115+00
TONGASS AVENUE
116+00
117+00
118+00
TALBOT'S
6
MOOSE LODGE
1245
5
PARKING
DECK
4
3
WRANGELL
FISHERIES INC.
1225
2
GARAGE
1
1A
2A
3A
4A
5A
6A
7A
8A
9A
PARKING DECK
TALBOT'S BUILDING SUPPLY

(XX) DENOTES VIADUCT BENT NUMBER

DO NOT SCALE FROM THESE DRAWINGS.

KEY PLAN

DESIGNED BY: L. GREGOVICH

STATE OF ALASKA
49th
Lars R. Gregovich
CE-8065
REGISTERED PROFESSIONAL ENGINEER
5-13-05

CHECKED BY: D. LESTER

DRAWN BY: R. SNYDER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION

KTN-TONGASS AVENUE
RESURFACING

ESCP PLAN
STA. 108+50 TO 119+00

PROJECT DESIGNATION NUMBER
68140 ~ IM-0902(28)

STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
L3	50

PARKING

CHAPMAN STREET

MURREY PACIFIC

1016

1010

SCHOENBAR RD

WATER STREET

S69°40'19"E
950.42'

120+00

121+00

122+00

123+00

124+00

WOOD DECK

1029

DRAINAGE

119+00

119+01.69

120+14.32

S45°09'00"E 45.48'

20 0 20 40
SCALE IN FEET

TAQUAN AIR
1007

PARKING

10 11 12 13 14

B.O.P.

SHEET
L4

E.O.P.

KEY PLAN

YOUNG ST

BAUER WAY

814 BOATMEN'S UNION OF THE PACIFIC

812

MIRROR IMAGES

PIZZA MILL

740

728

726

718

702 – 706

30

LEGEND

INLET PROTECTION

SCUPPER PROTECTION

125+00

126+00

S69°40'19"E
950.42'

127+00

128+00

129+00

130

WATER STREET

15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 31 32 33 34 35 36 37 38 39 40 41 42

811 – 809

JOLLY TIME PARTY SUPPLIES

ALASKA FINANCIAL ADVISORS

CITY FLOAT

PC = 129+64.73

PARKING

(XX) DENOTES VIADUCT BENT NUMBER

DO NOT SCALE FROM THESE DRAWINGS.

PATH:
Q:\Ktn\68140\Planset\L-ESCP.dwg
Tue, 10/May/05 11:15AM
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: F3

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

DESIGNED BY: L. GREGOVICH

STATE OF ALASKA
49th
Lars R. Gregovich
CE-8065
REGISTERED PROFESSIONAL ENGINEER
5-13-05

CHECKED BY: D. LESTER

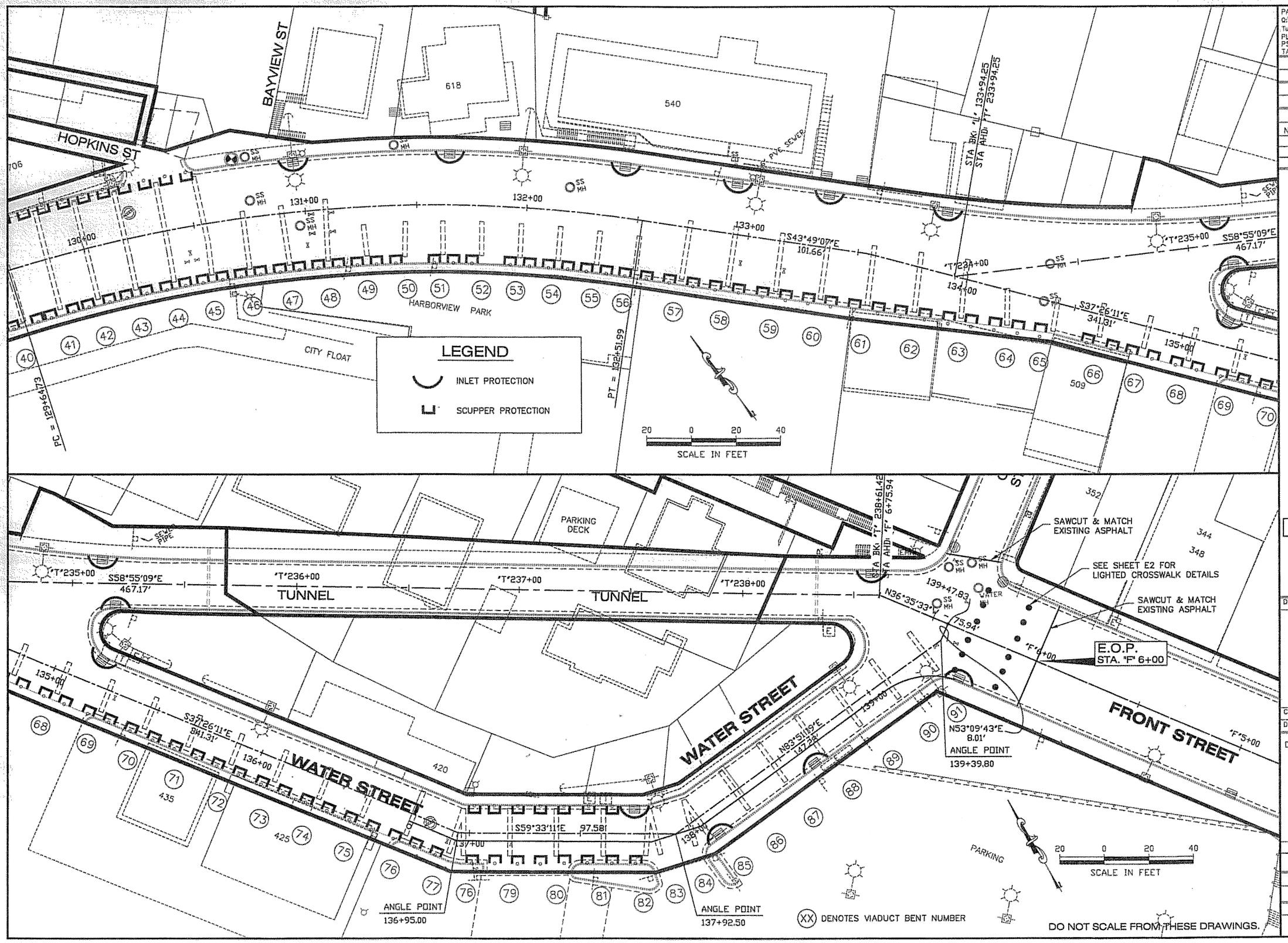
DRAWN BY: R. SNYDER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

KTN-TONGASS AVENUE RESURFACING

ESCP PLAN STA. 119+00 TO 130+00

PROJECT DESIGNATION NUMBER	
68140 ~ IM-0902(28)	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
L4	50



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Tue, 10/May/05 11:15AM
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: F4

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

B.O.P.

SHEET L5

E.O.P.

KEY PLAN

DESIGNED BY: L. GREGOVICH

STATE OF ALASKA
49th
Lars R. Gregovich
CE-8065
REGISTERED PROFESSIONAL ENGINEER
5.13.05

CHECKED BY: D. LESTER

DRAWN BY: R. SNYDER

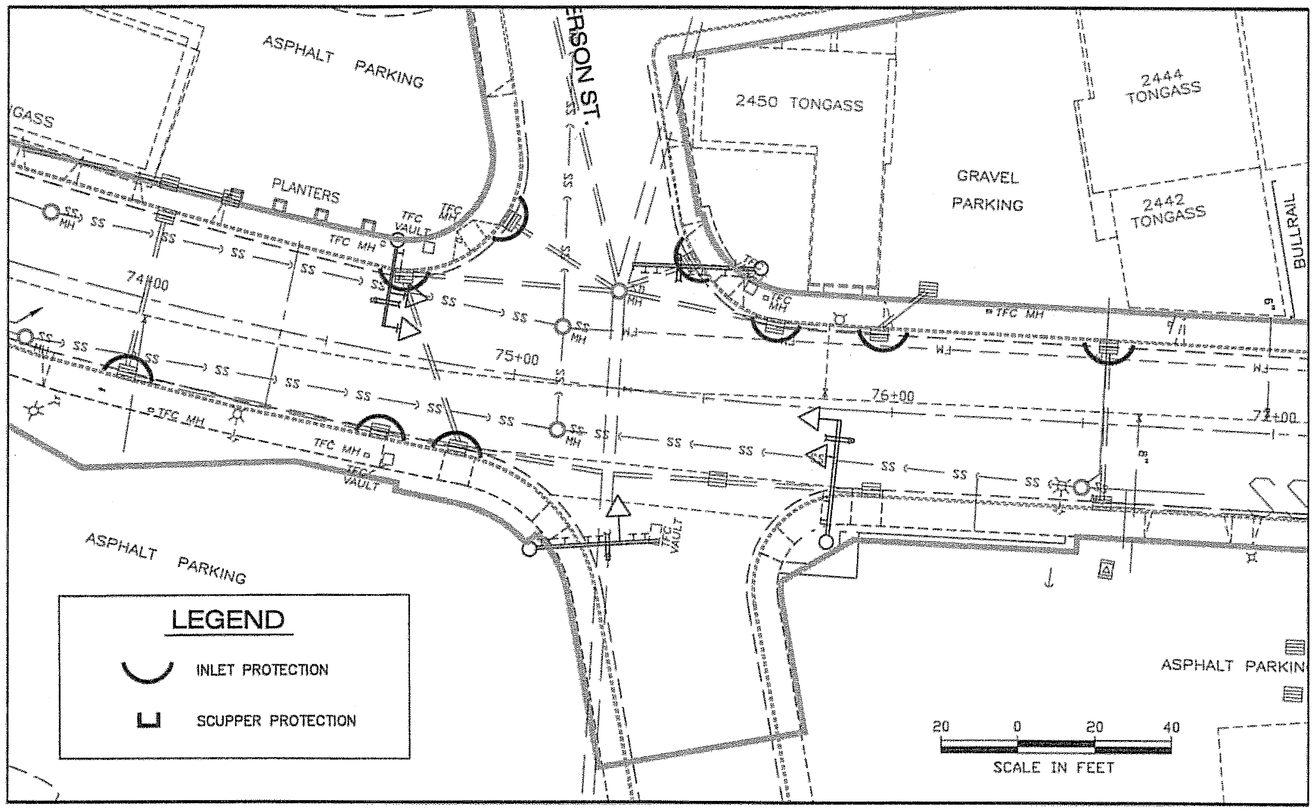
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

KTN-TONGASS AVENUE RESURFACING

ESCP PLAN STA. 130+00 TO EOP 06+00

PROJECT DESIGNATION NUMBER
68140 ~ IM-0902(28)

STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
L5	50



ESCP FOR JEFFERSON ST. INTERSECTION

DO NOT SCALE FROM THESE DRAWINGS.

PATH:
O:\Ktn\68140\Planset\L6-ESCP.dwg
Mon, 16/May/05 09:53AM
PLOT:
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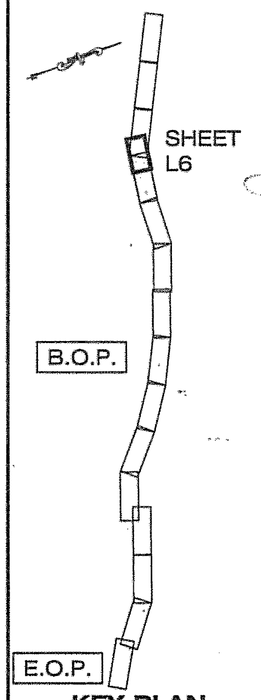
TAB: H4

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



KEY PLAN

DESIGNED BY: D. LESTER

STATE OF ALASKA 49th Lars R. Gregovich CE-8065 REGISTERED PROFESSIONAL ENGINEER 5.13.05

CHECKED BY: D. LESTER

DRAWN BY: L. ROBERTSON

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

KTN-TONGASS AVENUE RESURFACING

ESCP PLAN STA. 74+00 TO 77+00

PROJECT DESIGNATION NUMBER

68140 ~ IM-0902(28)

STATE	YEAR
ALASKA	2005

SHEET NUMBER	TOTAL SHEETS
L6	50

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	IM-0902(28)/68140	2005	GI	50

BRIDGE BASIS OF ESTIMATE - WATER STREET VIADUCT BASIC BID

ITEM NO.	ITEM	UNIT	SUBST.	SUPERST.	TOTAL
408(1)	Pavement Cold Planing	SY		* 5440/120	5560
501(10)	Expansion Joint – Pourable	LF		* 2220/140	2360
509(1)	MMC Overlay	CY		* 369/113	482
510(1)	Removal of Concrete Bridge Deck	SY		* 5540/120	5660
514(1)	Removal of Asbestos Joint Material	LF		4960	4960
642(13)	Bridge Survey	LS		All Req'd.	All Req'd.
643(2)	Traffic Maintenance	LS		All Req'd.	All Req'd.

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

NOTE:

* = Quantities between curbs and in curb cuts (A/B)

A = Quantity between curbs
B = Quantity in curb cuts

See Southeast Region's sheets F1 to F4 of Plan View drawings for location of curb cut areas.

BRIDGE BASIS OF ESTIMATE - TONGASS AVENUE VIADUCT ALTERNATE B

ITEM NO.	ITEM	UNIT	SUBST.	SUPERST.	TOTAL
408(1B)	Pavement Cold Planing	SY		* 7040/125	7165
501(9B)	Expansion Joint – Steel	LF		150	150
501(10B)	Expansion Joint – Pourable	LF		* 1030/100	1130
509(1B)	MMC Overlay	CY		* 551/82	633
510(1B)	Removal of Concrete Bridge Deck	SY		* 7040/125	7165
514(1B)	Removal of Asbestos Joint Material	LF		2590	2590
604(8B)	Manholes	EA		2	2
642(13B)	Bridge Survey	LS		All Req'd.	All Req'd.
643(2B)	Traffic Maintenance	LS		All Req'd.	All Req'd.

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

GENERAL NOTES

DESIGN: ..... AASHTO Standard Specifications for Highway Bridges, 17th edition, 2002, with latest interim specifications.

CONSTRUCTION: ..... State of Alaska DOT/PF Standard Specifications for Highway Construction (English) 2004 with Standard Modifications and Special Provisions.

LIVE LOAD: HS-20

DEAD LOAD: ..... Includes 25 psf for all wearing surfacing.

REINFORCED CONCRETE: ... Use Microsillica Modified Concrete for all deck work. f'c = 5,000 psi.

ABBREVIATIONS

℄	= Centerline	e.f.	= each face
ℙ	= Plate	f.f.	= far face
&	= and	Hwy.	= Highway
@	= at	i.d.	= Inside Diameter
ø	= diameter	max.	= maximum
Approx.	= Approximate	min.	= minimum
Abut.	= Abutment	M.H.H.W	= Mean Higher High Water
bot.	= bottom	MMC	= Microsillica Modified Concrete
Br.	= Bridge	n.a.	= not applicable
btwn.	= between	n.c.	= not calculated
Brg.	= Bearings	n.f.	= near face
C.I.P.	= Cast-in-Place	No.	= Number
Clr.	= Clear, Clearance	o.c.	= on center
col.	= column	spc.	= space, spaces
CSL	= Crosshole Sonic Logging	Sta.	= Station
dia.	= diameter	Symm.	= Symmetric
D.H.W.	= Design High Water	Typ.	= Typical
Dwg.	= Drawing		
Elev.	= Elevation		

BRIDGE DRAWING INDEX

TITLE	DWG. NO.
ESTIMATE OF QUANTITIES	1
SCOPE OF WORK	2
JOINT SHIELDING FOR HYDRODEMOLITION	3
GENERAL LAYOUT - WATER STREET	4
TYPICAL SECTIONS - WATER STREET	5
EXPANSION JOINTS - WATER STREET	6
GENERAL LAYOUT - TONGASS AVE.	7
TYPICAL SECTIONS - TONGASS AVE.	8
EXPANSION JOINTS - TONGASS AVE.	9
MANHOLE DETAILS - TONGASS AVE.	10

DESIGNED BY: George Imbsen	CHECKED: Steve Lee	
DRAWN BY: C. Anderson	CHECKED: George Imbsen	
QUANTITIES BY: George Imbsen	CHECKED: Steve Lee	

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49TH
George H. Imbsen No. 4366-E
5/13/05
REGISTERED PROFESSIONAL ENGINEER

KETCHIKAN VIADUCTS RESURFACING

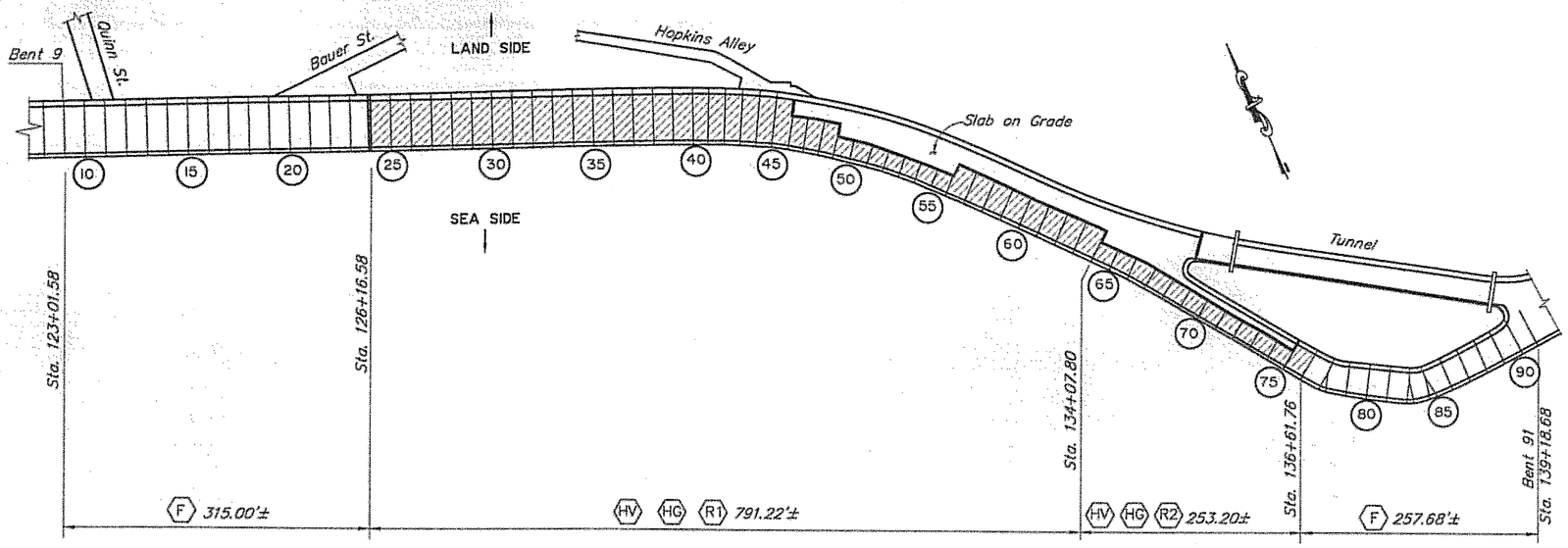
TONGASS AVE. VIADUCT & WATER STREET VIADUCT

ESTIMATE OF QUANTITIES

797 8
BRIDGE NO. 997
DWG. NO. GI

P:\KetchikanVia04\VIADUCT1.DWG, 05/13/2005 03:15:50 PM

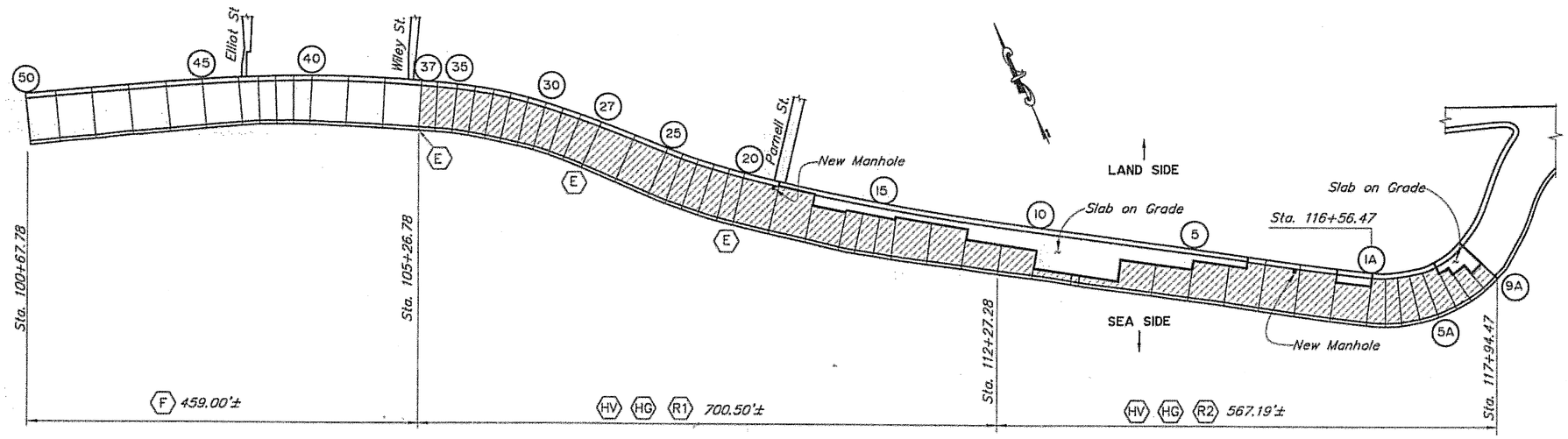
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	IM-0902(28)/68140	2005	G2	50



WATER STREET BR. NO. 797

Sta. 123+01.58 to Sta. 139+18.68

No Scale



TONGASS AVENUE BR. NO. 997

Sta. 100+68.67.78 to 117+94.47

No Scale

LEGEND:

- (E) = Expansion Joint–Steel
- (F) = Fill (Future)
- (HG) = Hydrodemolition & MMC – Slab on Grade
- (HV) = Hydrodemolition & MMC – Structure
- (R1) = Rehabilitation complete (Cathodic Protection and substructure rehabilitation).
- (R2) = Rehabilitation Future (Cathodic Protection and substructure rehabilitation).
- (XX) = Bent Number
- (E) = Existing
- ——— = Slab on Grade Boundary

Elevations, Bearings and Dimensions are based on "AS–BUILT" plans. Verify all controlling field dimensions before ordering or fabricating any material.

DESIGNED BY: George Imbsen	CHECKED: Steve Lee
DRAWN BY: C. Anderson	CHECKED: George Imbsen
QUANTITIES BY: Steve Lee	CHECKED: George Imbsen

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49TH — George H. Imbsen No. 4366-E — REGISTERED PROFESSIONAL ENGINEER — 5/13/05

KETCHIKAN VIADUCT RESURFACING

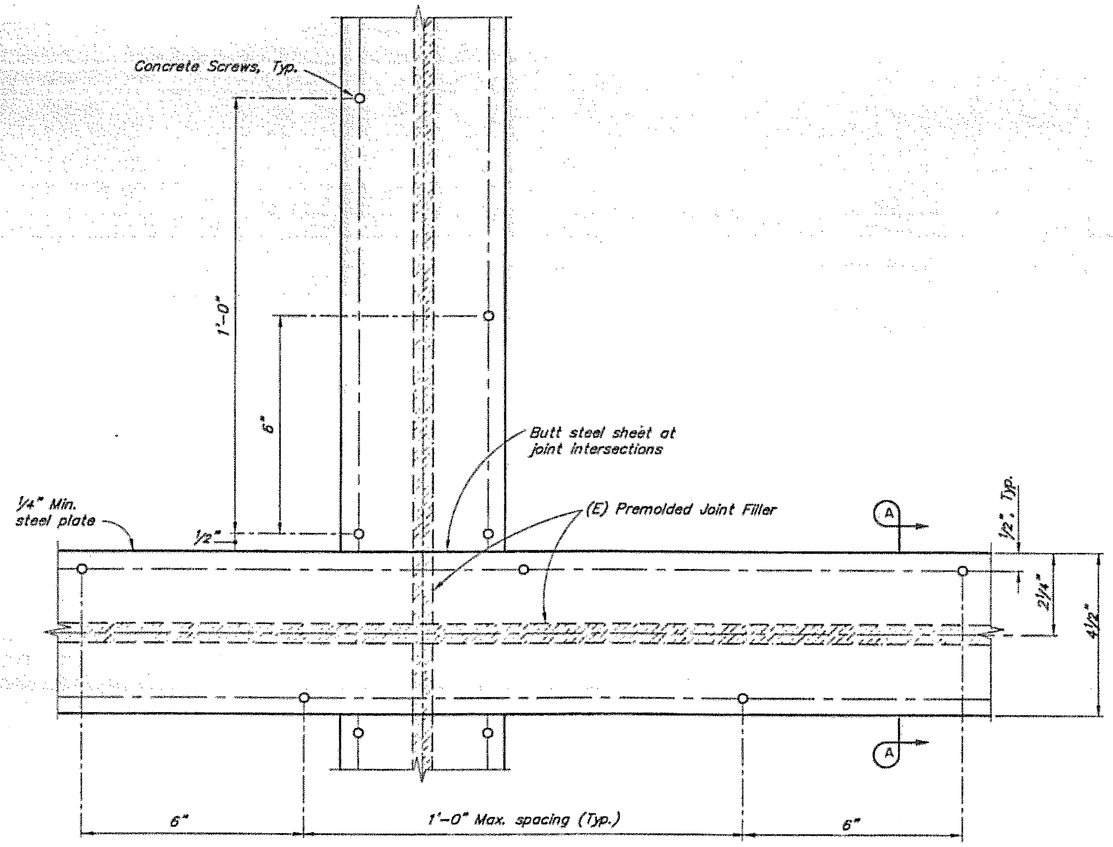
TONGASS AVE. VIADUCT & WATER STREET VIADUCT

SCOPE OF WORK

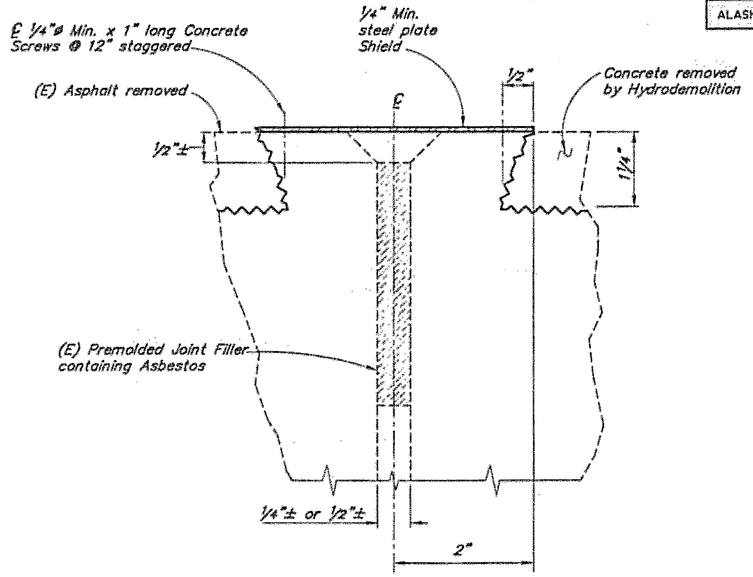
797 8
BRIDGE NO. 997
DWG. NO. G2

P:\KetchikanVia04\VIADUCT1.DWG, 05/13/2005 03:15:56 PM

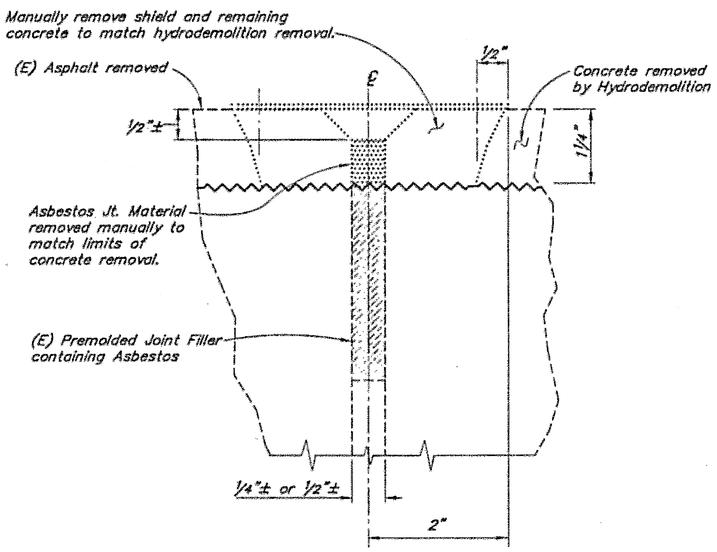
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	IM-0902(28)/68140	2005		



JOINT SHIELDING DETAIL FOR HYDRODEMOLITION
(SHOWING INTERSECTING JOINTS)
No Scale



SECTION A-A
(AFTER HYDRODEMOLITION)
No Scale



SECTION A-A
(AFTER ASBESTOS REMOVAL)
No Scale

LEGEND
(E) = Existing
- - - - - = Existing
——— = This Contract

Elevations, Bearings and Dimensions are based on "AS-BUILT" plans. Verify all controlling field dimensions before ordering or fabricating any material.

DESIGNED BY: Mathew White	CHECKED: George Imbsen
DRAWN BY: C. Anderson	CHECKED: George Imbsen
QUANTITIES BY: George Imbsen	CHECKED: Steve Lee

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 19 MATTHEW M. WHITE 9663 REGISTERED ENGINEER

KETCHIKAN VIADUCT RESURFACING
TONGASS AVE. VIADUCT & WATER STREET VIADUCT
JOINT SHIELDING FOR HYDRODEMOLITION

797 8
BRIDGE NO. 997
DWG. NO. G3

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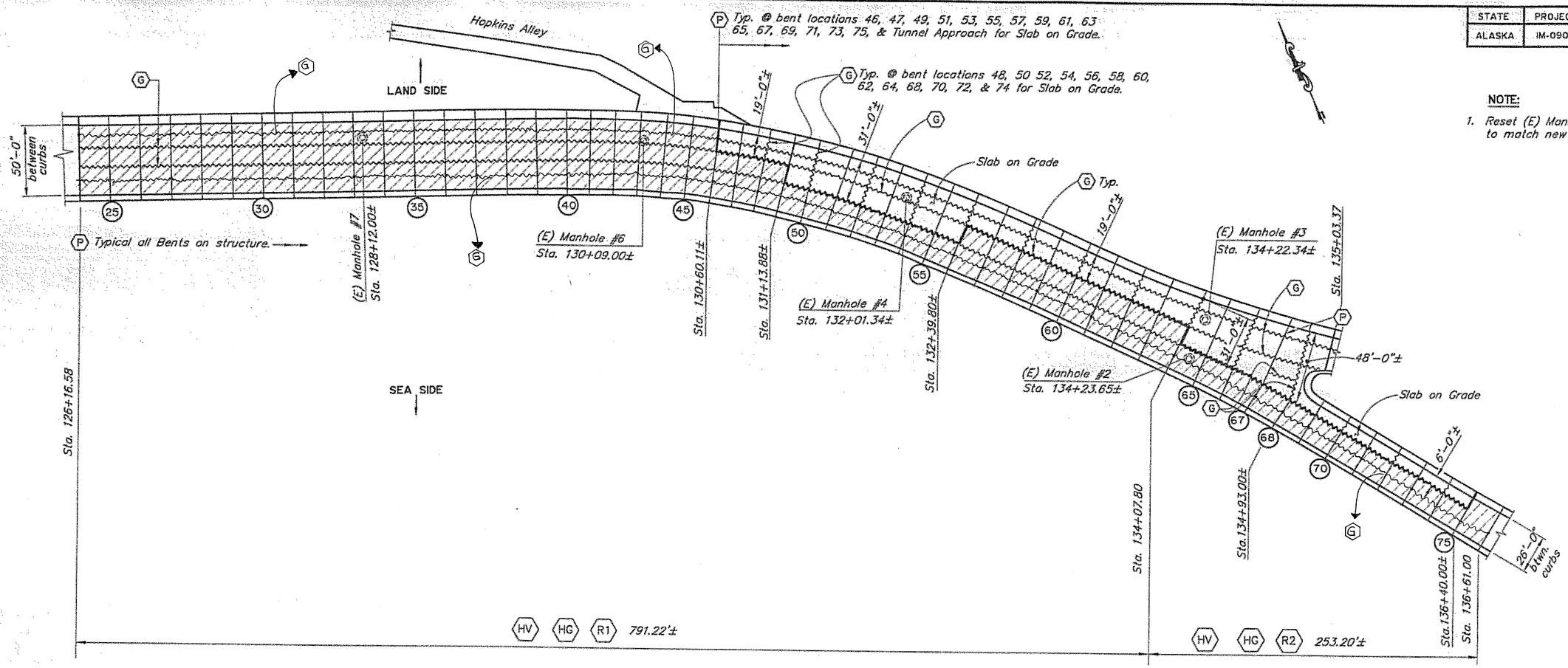
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	IM-0902(28)/68140	2005	G4	50



WATER STREET BR. NO. 797
Sta. 126+16.58 to Sta. 139+17.36
No Scale

NOTE:

1. Reset (E) Manhole frames and covers to match new MMC grade.

LEGEND:

- (G) ~~~ New Grooved Joints over (E) fiber joint. See "TYPICAL GROOVED JOINT DETAIL" on "EXPANSION JOINTS–WATER STREET" Dwg.
- (P) —— New pourable joint over (E) fiber Joint See "TYPICAL POURABLE JOINT DETAIL" on "EXPANSION JOINTS–WATER STREET" Dwg.
- (HG) = Hydrodemolition & MMC – Slab on Grade
- (HV) = Hydrodemolition & MMC – Structure
- (R1) = Rehabilitation complete (Cathodic Protection and substructure rehabilitation).
- (R2) = Rehabilitation Future (Cathodic Protection and substructure rehabilitation).
- (XX) = Bent Number
- (E) = Existing
- —— or ~~~~ = Slab on Grade Boundary–pourable or grooved joint.

Elevations, Bearings and Dimensions are based on "AS–BUILT" plans. Verify all controlling field dimensions before ordering or fabricating any material.

DESIGNED BY: George Imbsen	CHECKED: Steve Lee
DRAWN BY: C. Anderson	CHECKED: George Imbsen
QUANTITIES BY: Steve Lee	CHECKED: George Imbsen

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49TH
George H. Imbsen
No. 4366-E
REGISTERED PROFESSIONAL ENGINEER

KETCHIKAN VIADUCT RESURFACING

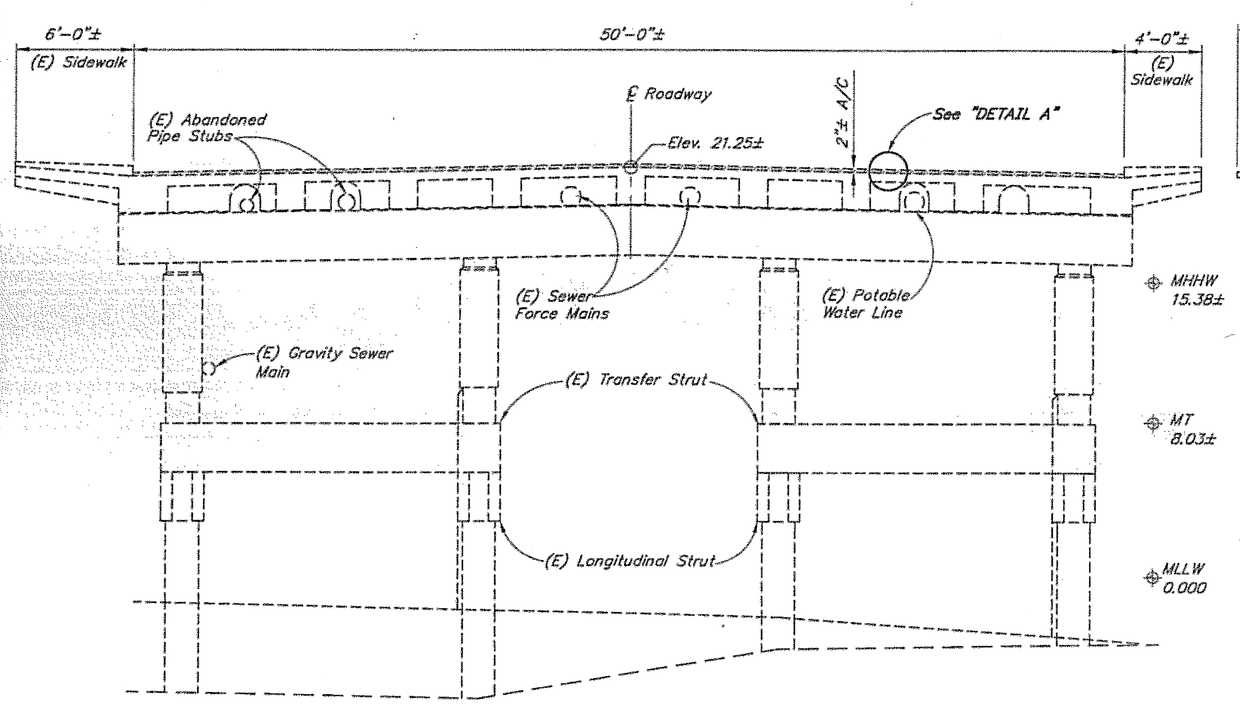
WATER STREET VIADUCT

GENERAL LAYOUT – WATER STREET

BRIDGE NO. 797
DWG. NO. G4

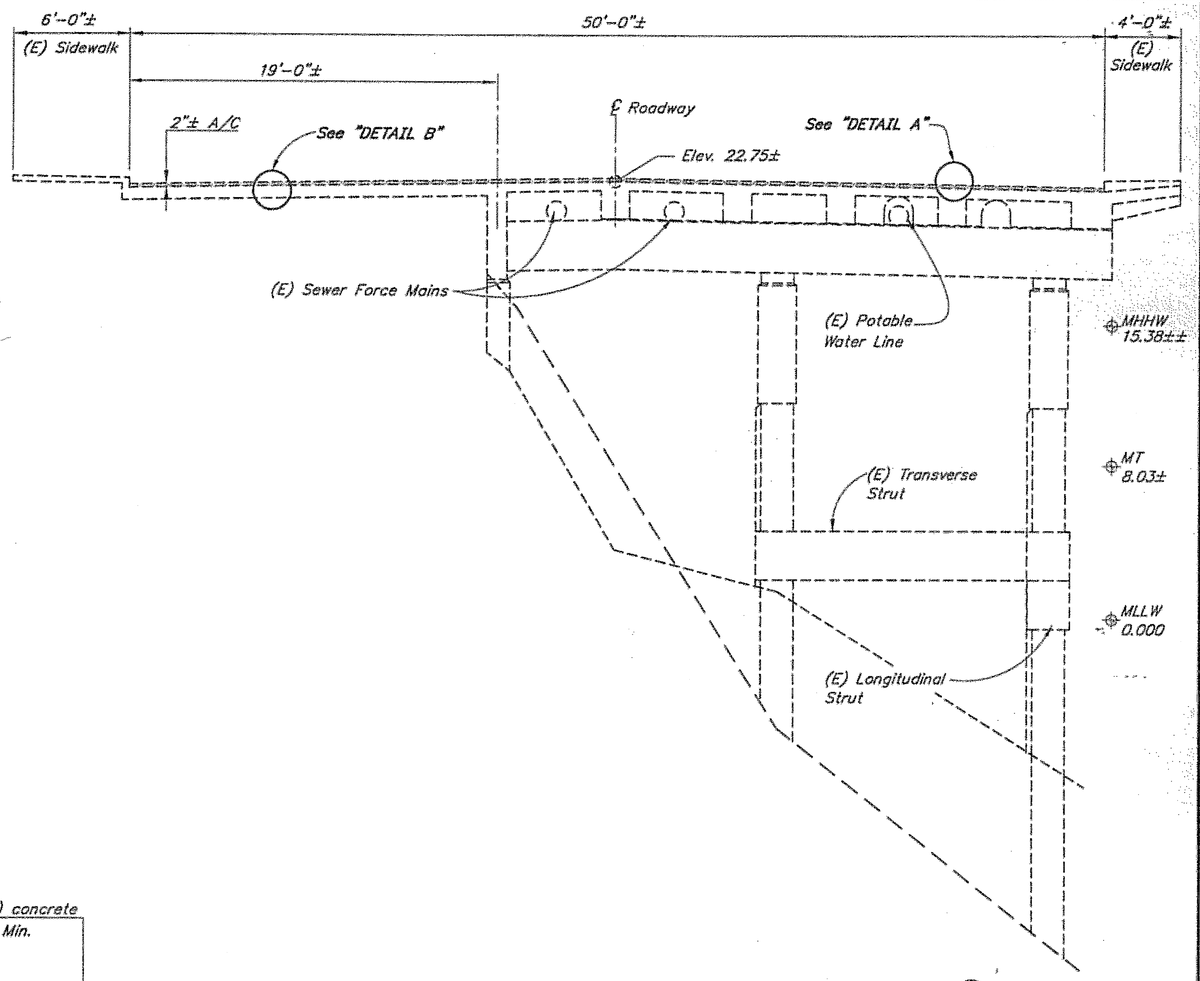
P:\KetchikanVia04\VIADUCT1.DWG, 05/13/2005 02:35:14 PM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	IM-0902(28)/68140	2005	G5	50



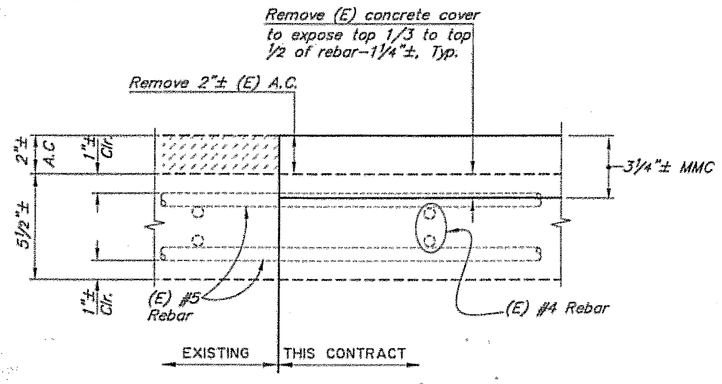
EXISTING TYPICAL SECTION @ BENT (26)

SHOWING FULL WIDTH GIRDER SUPERSTRUCTURE



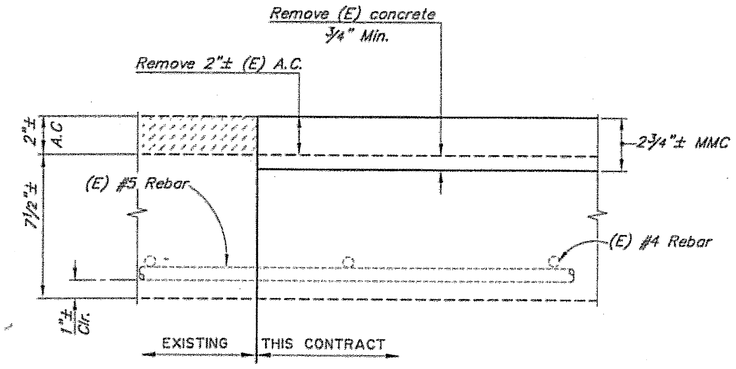
EXISTING TYPICAL SECTION @ BENT (47)

SHOWING PARTIAL WIDTH GIRDER SUPERSTRUCTURE WITH SLAB ON GRADE



DETAIL A

(SHOWING MMC WORK ON STRUCTURE)



DETAIL B

(SHOWING MMC WORK FOR SLAB ON GRADE)

LEGEND

(E) = Existing

- - - - - = Existing

——— = This Contract

Elevations, Bearings and Dimensions are based on "AS-BUILT" plans. Verify all controlling field dimensions before ordering or fabricating any material.

DESIGNED BY: George Imbsen	CHECKED: Steve Lee
DRAWN BY: C. Anderson	CHECKED: George Imbsen
QUANTITIES BY: George Imbsen	CHECKED: Steve Lee

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49TH George H. Imbsen No. 4266-E 5/13/2005 REGISTERED PROFESSIONAL ENGINEER

KETCHIKAN VIADUCT RESURFACING

WATER STREET VIADUCT

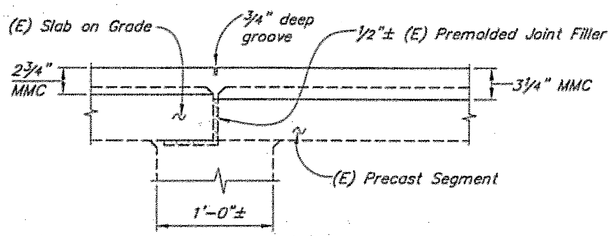
TYPICAL SECTIONS – WATER STREET

BRIDGE NO. 797

DWG. NO. G5

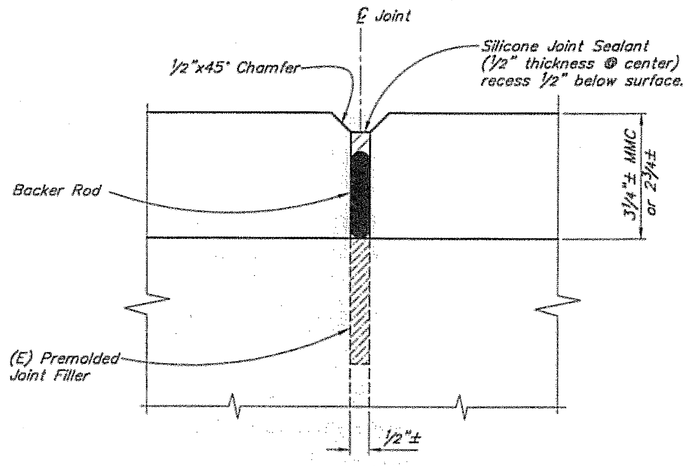
P:\KetchikanVia04\VIADUCT1.DWG, 05/13/2005 03:22:18 PM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	IM-0902(28)/68140	2005	G6	50



SLAB ON GRADE/STRUCTURE LONGITUDINAL JOINT DETAIL

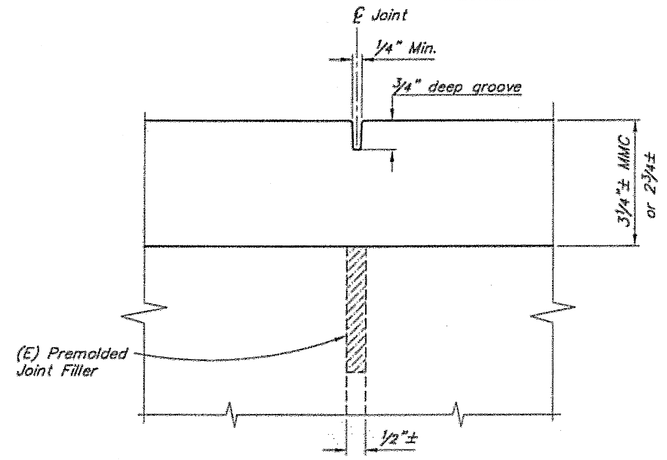
12 6 0 1
In. Feet



SECTION A-A

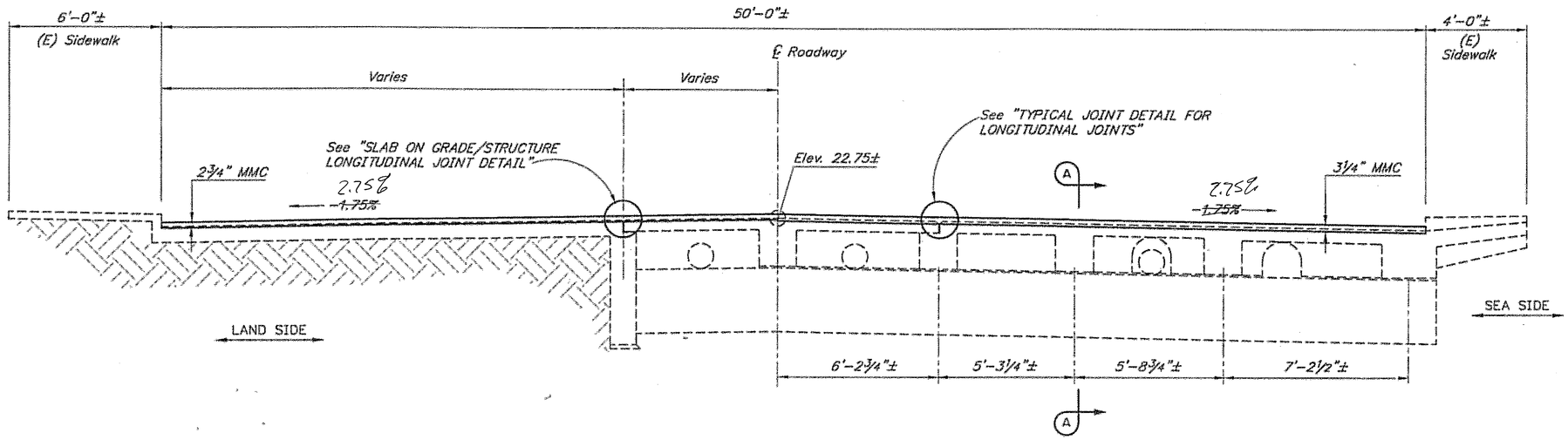
TYPICAL POURABLE JOINT DETAIL FOR TRANSVERSE JOINTS ON STRUCTURE AND SLAB ON GRADE AT BENTS (46)(47)(49)(51)(53)(55)(57)(59)(61)(63)(65)(67)(69)(71)(73)(75) AND AT TUNNEL APPROACH

No Scale



TYPICAL GROOVED JOINT DETAIL FOR LONGITUDINAL JOINTS AND TRANSVERSE JOINTS FOR SLAB ON GRADE AT BENTS (48)(50)(52)(54)(56)(58)(60)(62)(64)(66)(68)(70)(72)(74)

No Scale



TYPICAL SECTION LONGITUDINAL JOINTS WITH SLAB ON GRADE

12 0 1 2 3 4
In. Feet

LEGEND

(E) = Existing

----- = Existing

——— = This Contract

Elevations, Bearings and Dimensions are based on "AS-BUILT" plans. Verify all controlling field dimensions before ordering or fabricating any material.

DESIGNED BY: George Imbsen	CHECKED: Steve Lee
DRAWN BY: C. Anderson	CHECKED: George Imbsen
QUANTITIES BY: George Imbsen	CHECKED: Steve Lee

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49TH — George H. Imbsen No. 4366-S — REGISTERED PROFESSIONAL ENGINEER

KETCHIKAN VIADUCTS RESURFACING

WATER STREET VIADUCT

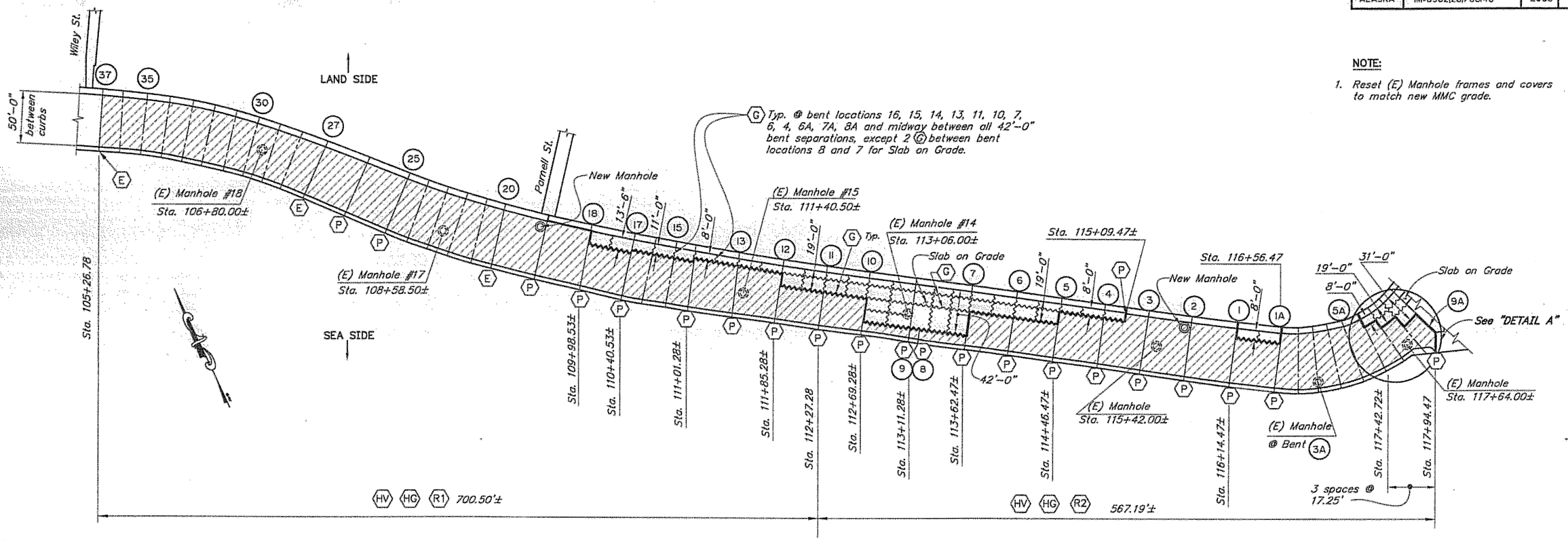
EXPANSION JOINTS – WATER STREET

BRIDGE NO. 797

DWG. NO. G6

P:\KetchikanVia04\VIADUCT1.DWG, 05/13/2005 03:16:21 PM

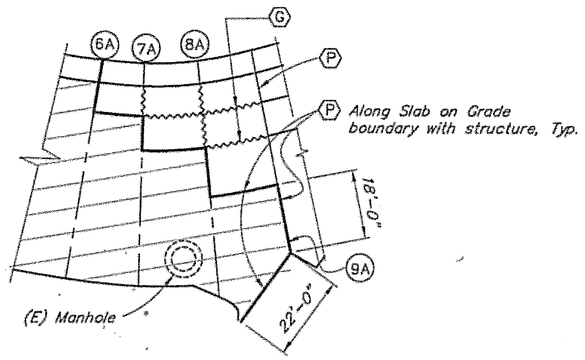
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	IM-0902(28)/68140	2005	G7	50



NOTE:

1. *Reset (E) Manhole frames and covers to match new MMC grade.*

TONGASS AVENUE BR. NO. 997
Sta. 105+26.78 to 117+94.47
No Scale



DETAIL A
No Scale

LEGEND:

- (E) = *Expansion Joint–Steel*
- (G) ~~~ *New Grooved Joints over (E) fiber joint. See "TYPICAL GROOVED JOINT DETAIL" on "EXPANSION JOINTS–TONGASS AVE." Dwg.*
- (P) —— *New pourable joint over (E) fiber Joint See "TYPICAL POURABLE JOINT DETAIL" on "EXPANSION JOINTS–TONGASS AVE." Dwg.*
- (HG) = *Hydrodemolition & MMC – Slab on Grade*
- (HV) = *Hydrodemolition & MMC – Structure*
- (R1) = *Rehabilitation complete (Cathodic Protection and substructure rehabilitation).*
- (R2) = *Rehabilitation Future (Cathodic Protection and substructure rehabilitation).*
- (XX) = *Bent Number*
- (E) = *Existing*
- —— or ~~~ = *Slab on Grade Boundary–pourable or grooved joint.*

Elevations, Bearings and Dimensions are based on "AS–BUILT" plans. Verify all controlling field dimensions before ordering or fabricating any material.

DESIGNED BY: George Imbsen	CHECKED: Steve Lee	
DRAWN BY: C. Anderson	CHECKED: George Imbsen	
QUANTITIES BY: Steve Lee	CHECKED: George Imbsen	

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49TH George H. Imbsen No. 4366E REGISTERED PROFESSIONAL ENGINEER

KETCHIKAN VIADUCT RESURFACING

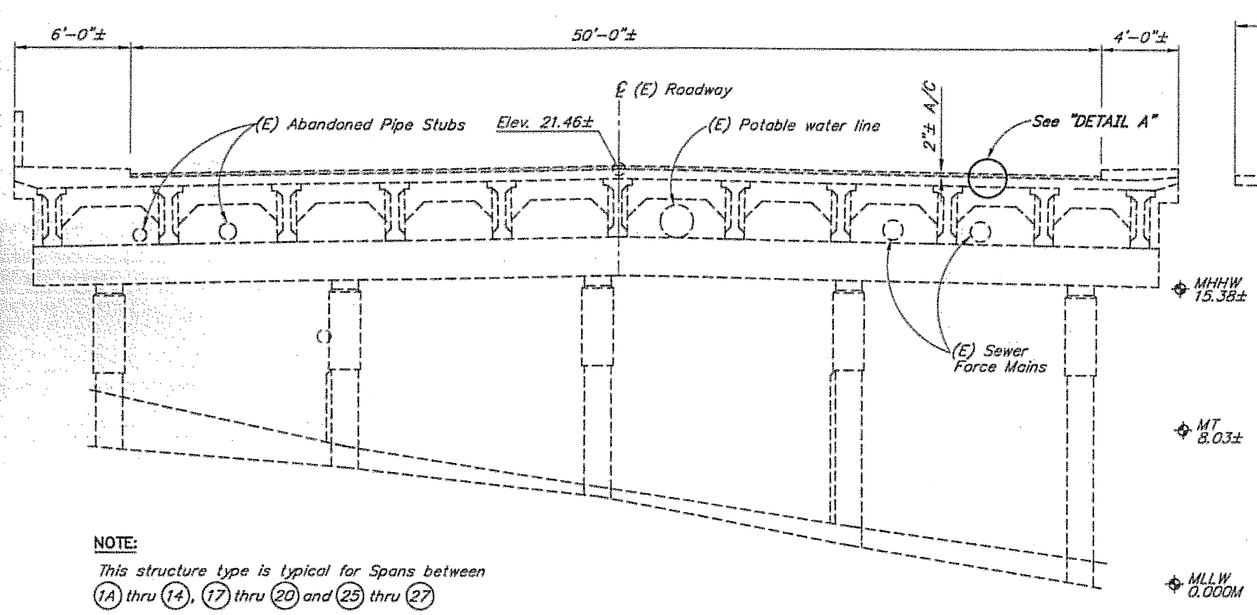
TONGASS AVE. VIADUCT

GENERAL LAYOUT – TONGASS AVE.

BRIDGE NO. 997
DWG. NO. G7

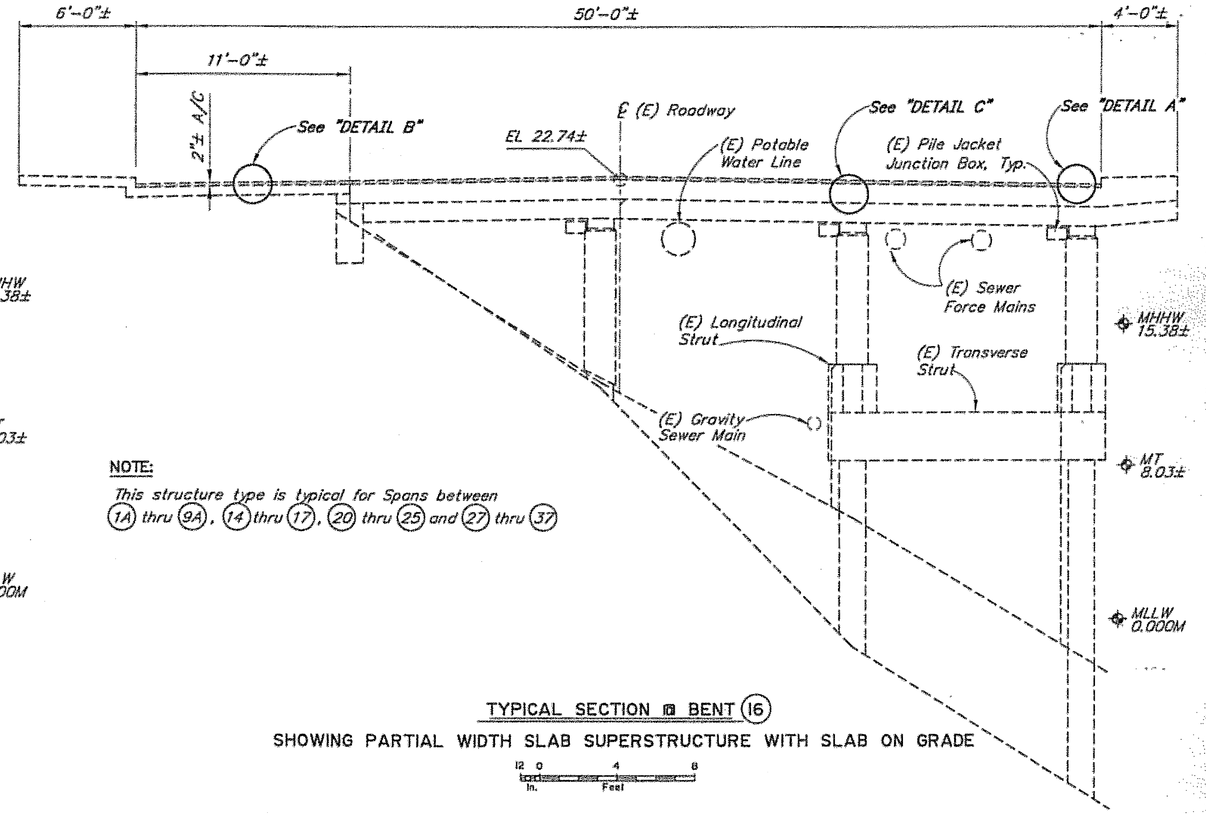
P:\KetchikanVia04\VIADUCT1.DWG, 05/13/2005 02:35:03 PM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	IM-0902(28)/68140	2005	G8	50



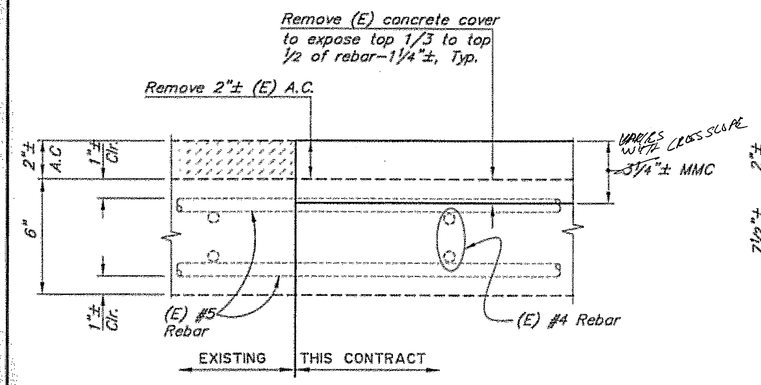
NOTE:
This structure type is typical for Spans between (1A) thru (14), (17) thru (20) and (25) thru (27)

TYPICAL SECTION @ BENT (37)
SHOWING FULL WIDTH GIRDER SUPERSTRUCTURE

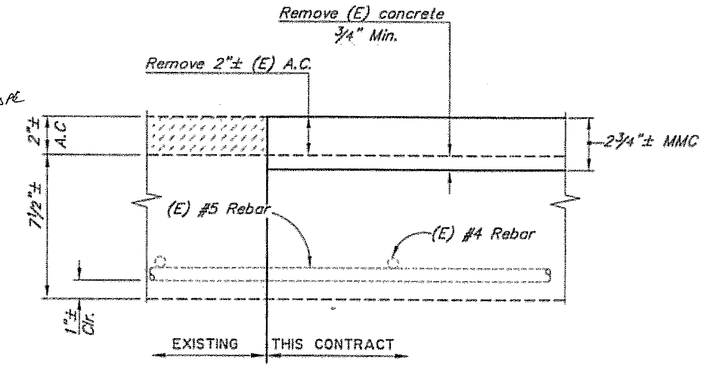


NOTE:
This structure type is typical for Spans between (1A) thru (9A), (14) thru (17), (20) thru (25) and (27) thru (37)

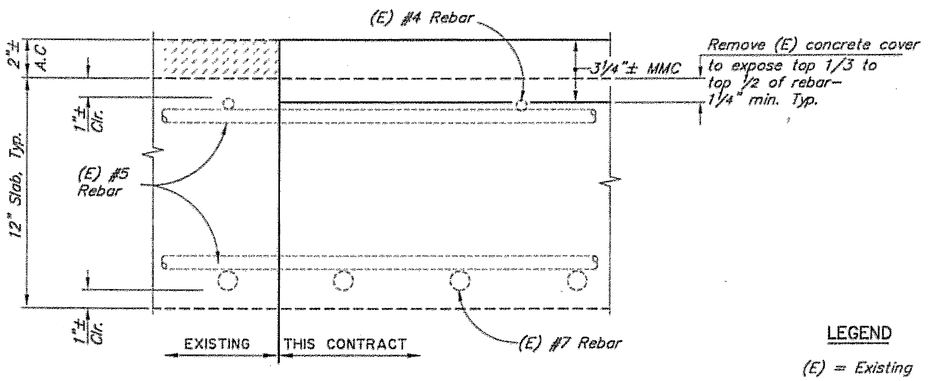
TYPICAL SECTION @ BENT (16)
SHOWING PARTIAL WIDTH SLAB SUPERSTRUCTURE WITH SLAB ON GRADE



DETAIL A
(SHOWING MMC WORK ON GIRDER SUPERSTRUCTURE)
Typical for Spans between Bents (27) to (25), (20) to (17), and (14) to (1A)



DETAIL B
(SHOWING MMC WORK FOR SLAB ON GRADE)



DETAIL C
(SHOWING MMC WORK ON SLAB SUPERSTRUCTURE)
Typical for center 16'-0" of Spans between Bents (37) to (27) (25) to (20) (17) to (14) and (1A) to (9A)

LEGEND
(E) = Existing
------ = Existing
——— = This Contract

Elevations, Bearings and Dimensions are based on "AS-BUILT" plans. Verify all controlling field dimensions before ordering or fabricating any material.

DESIGNED BY: George Imbsen	CHECKED: Steve Lee
DRAWN BY: C. Anderson	CHECKED: George Imbsen
QUANTITIES BY: George Imbsen	CHECKED: Steve Lee

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49TH
George H. Imbsen
No. 4868-E
REGISTERED PROFESSIONAL ENGINEER

KETCHIKAN VIADUCT RESURFACING

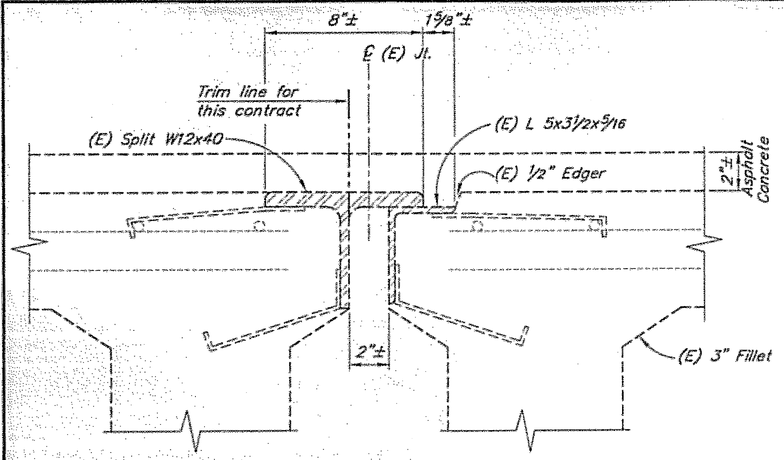
TONGASS AVE. VIADUCT

TYPICAL SECTIONS – TONGASS AVE.

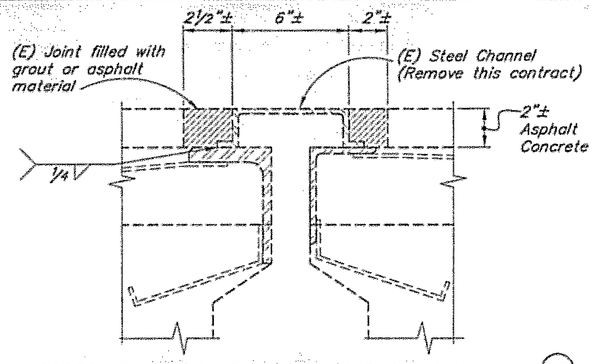
BRIDGE NO. 997
DWG. NO. G8

P:\KetchikanVia04\VIADUCT1.DWG, 05/13/2005 03:16:28 PM

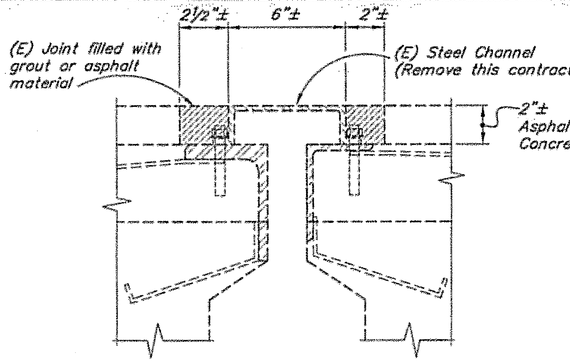
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	IM-0902(28)/68140	2005	G9	50



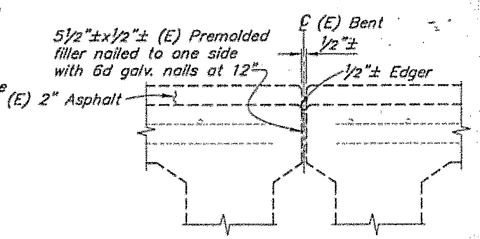
CROSS



CROSS-SECTION EXISTING MOVABLE JOINT AT BENT (27)



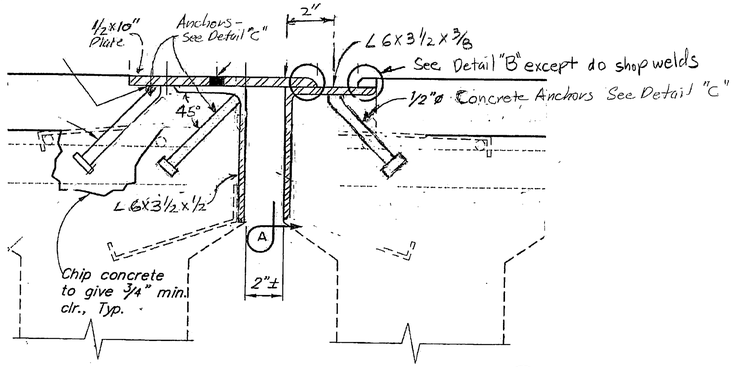
CROSS-SECTION EXISTING MOVABLE JOINT AT BENT (37)



CROSS-SECTION OF EXISTING TRANSVERSE FIXED JOINTS

(LONGITUDINAL JOINT AND SLAB ON GRADE SIMILAR)

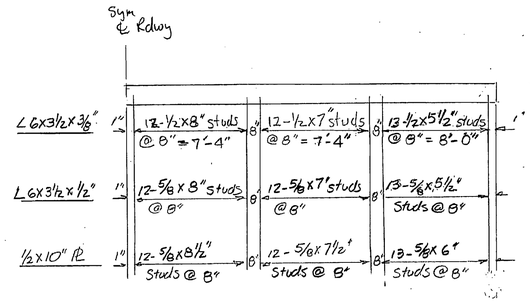
12 6 0
In. Feet



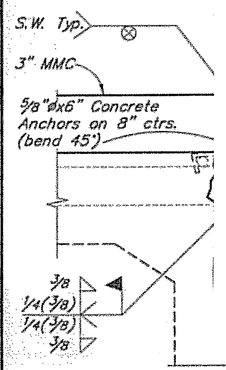
CROSS-SECTION - STEEL EXPANSION JOINTS AT BENTS (20)

CURB TO CURB - TYP.
(THIS CONTRACT)

Note: For change order, use existing contract document with the changes noted in red and Detail "C."



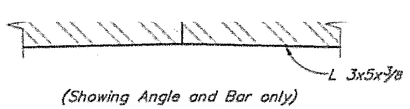
Detail C



CROSS-SECTION - STEEL EXPANSION JOINTS AT BENTS (20) (27) & (37)

CURB TO CURB - TYP.
(THIS CONTRACT)

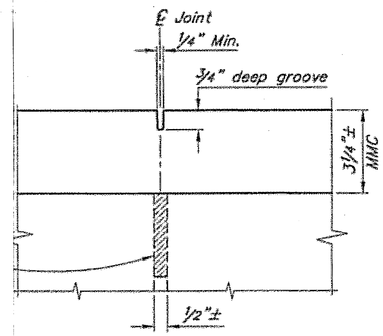
6 3 0 1
In. Feet



(Showing Angle and Bar only)

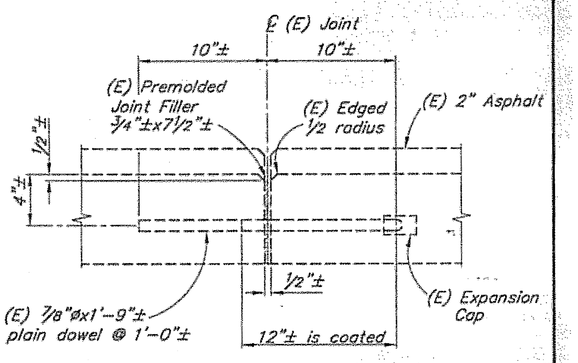
SECTION A-A

No Scale



GROOVED JOINT DETAIL FOR LONGITUDINAL OR TRANSVERSE JOINTS - SLAB ON GRADE
(THIS CONTRACT)

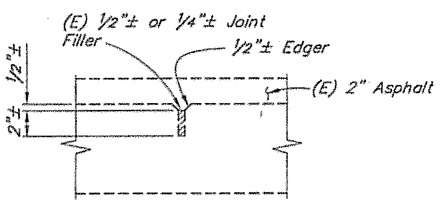
No Scale



EXISTING TRANSVERSE JOINT DETAIL

NEAR BENTS (12) & (17) SLAB ON GRADE

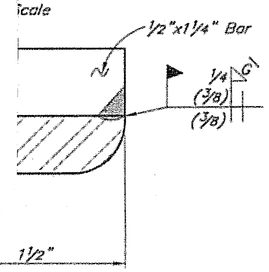
No Scale



EXISTING TRANSVERSE JOINT DETAIL

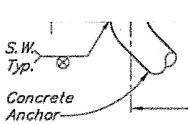
TYPICAL - SLAB ON GRADE

No Scale



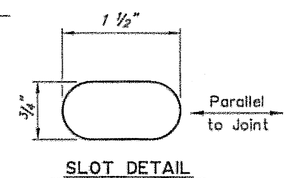
IL "A"

Scale



DETAIL "B"

No Scale



SLOT DETAIL

12 6 0 1 2
In. Feet

LEGEND

(E) = Existing
------ = Existing
——— = This Contract

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DESIGNED BY: George Imbsen	CHECKED: Steve Lee
DRAWN BY: C. Anderson Cathy Anderson	CHECKED: George Imbsen
QUANTITIES BY: George Imbsen	CHECKED: Steve Lee

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49TH — George H. Imbsen No. 9366-E — REGISTERED PROFESSIONAL ENGINEER — 5/13/05

KETCHIKAN VIADUCTS RESURFACING

TONGASS AVE. VIADUCT

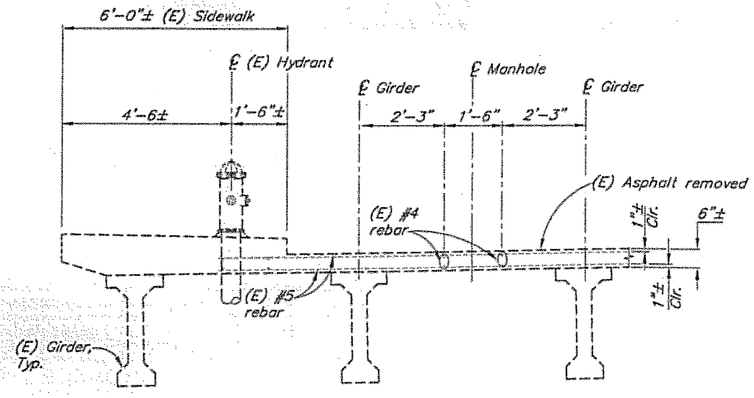
EXPANSION JOINTS – TONGASS AVE.

BRIDGE NO. 997

DWG. NO. G9

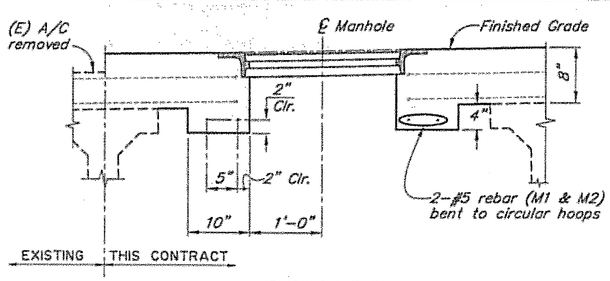
P:\KetchikanVia04\VIADUCT1.DWG, 05/13/2005 03:16:41 PM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	IM-0902(28)/68140	2005	GIO	50



VIEW A-A - (EXISTING)

12 6 0 1 2 3 4
In. Feet



NOTE:

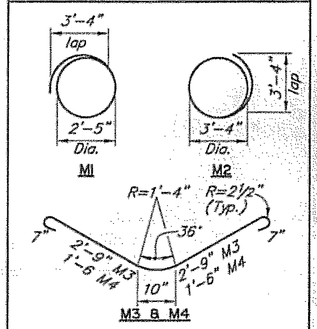
Provide Manhole cover and frames. Model MH30 by Olympic Foundry, Inc. or approved equal.

SECTION B-B

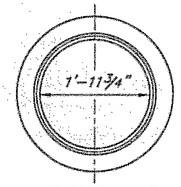
12 6 0 1 2
In. Feet

REINFORCING STEEL-SCHEDULE-ONE MANHOLE				
MARK	SIZE	NO.	LENGTH	TYPE
M1	5	1	10'-11"	Bent
M2	5	1	13'-10"	Bent
M3	5	8	7'-6¼"	Bent
M4	5	2	5'-0¼"	Bent

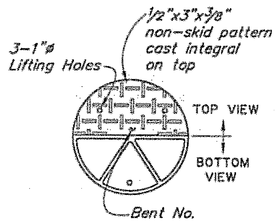
BENDING DIAGRAM

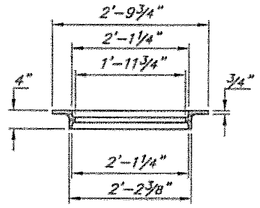


Epoxy coat all rebar.

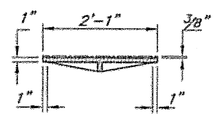


PLAN-FRAME

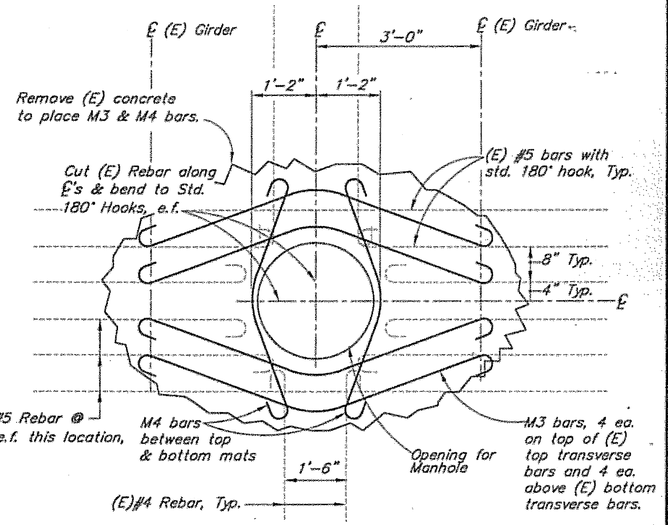




ELEVATION-FRAME
(Cast Iron)

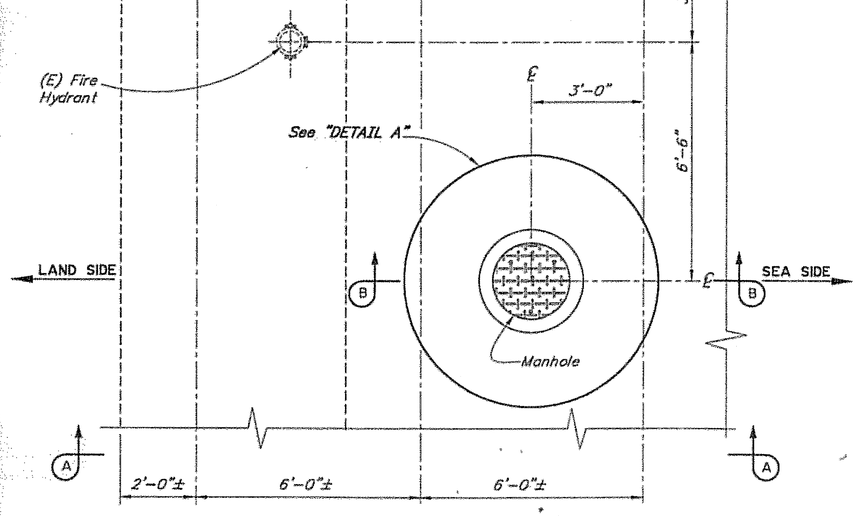


MANHOLE COVER
(Ductile Iron)



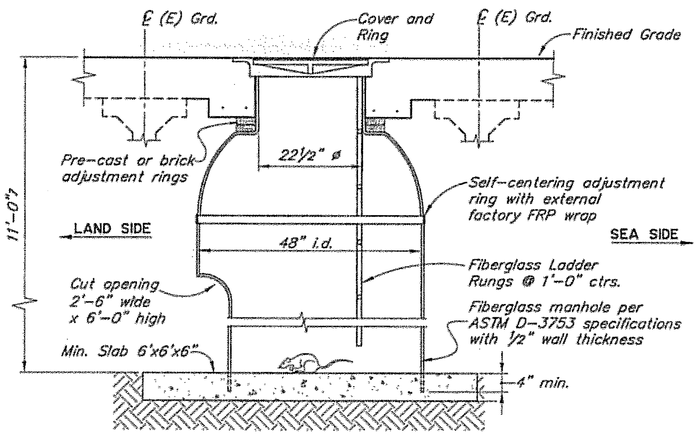
DETAIL A

12 6 0 1 2 3
In. Feet



PARTIAL DECK PLAN

12 6 0 1 2 3 4
In. Feet



ACCESS MANHOLE

12 6 0 1 2 3
In. Feet

LEGEND

(E) = Existing
- - - - - = Existing
——— = This Contract

Elevations, Bearings and Dimensions are based on "AS-BUILT" plans. Verify all controlling field dimensions before ordering or fabricating any material.

DESIGNED BY: George Imbsen	CHECKED: Steve Lee
DRAWN BY: C. Anderson Cathy Anderson	CHECKED: George Imbsen
QUANTITIES BY: George Imbsen	CHECKED: Steve Lee

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49TH George H. Imbsen No. 4365-S REGISTERED PROFESSIONAL ENGINEER 3/7/05

KETCHIKAN VIADUCTS RESURFACING

TONGASS AVE. VIADUCT

MANHOLE DETAILS – TONGASS AVE.

BRIDGE NO. 997
DWG. NO. GIO

P:\KetchikanVia04\VIADUCT1.DWG, 05/13/2005 03:16:48 PM