

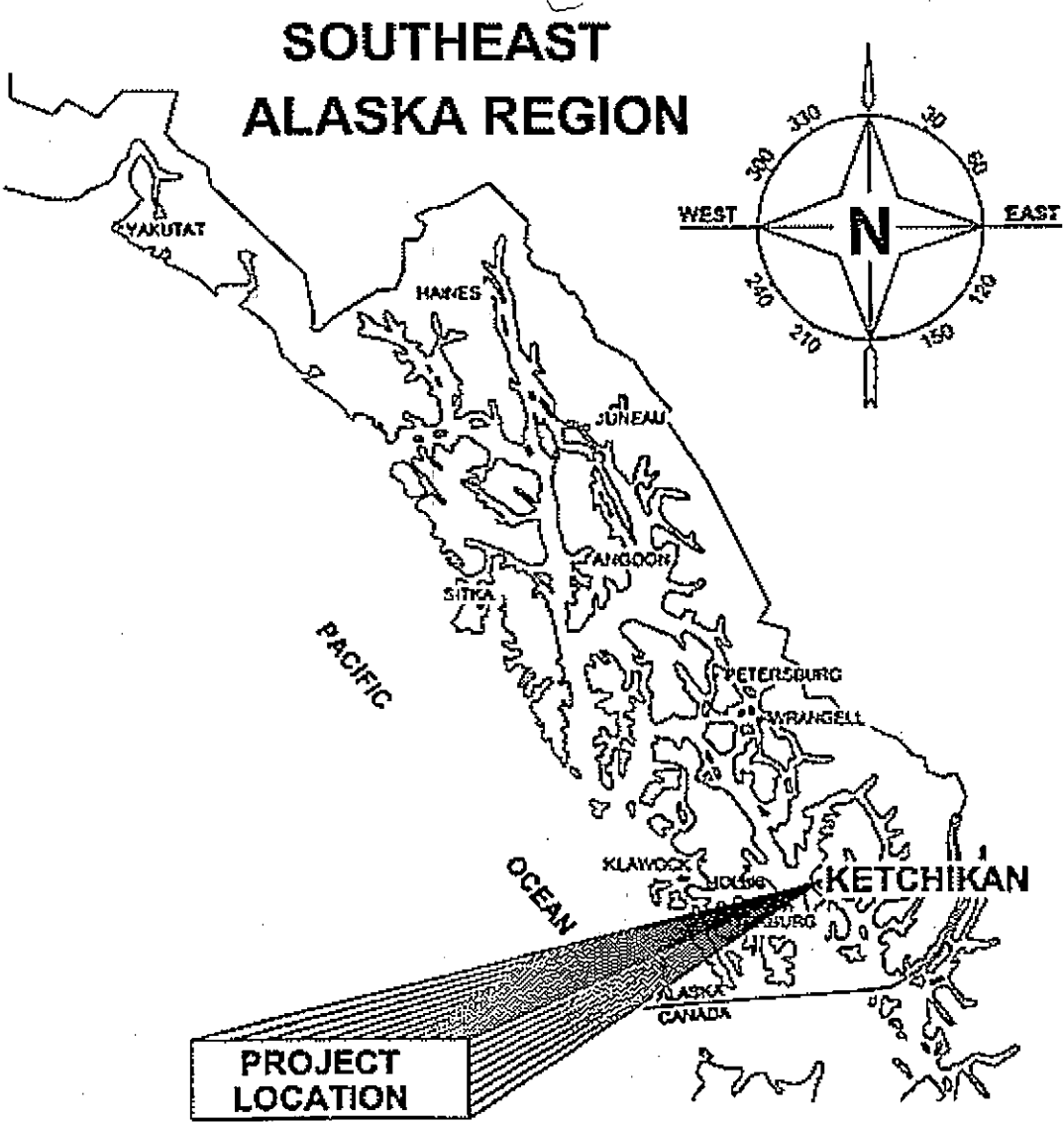
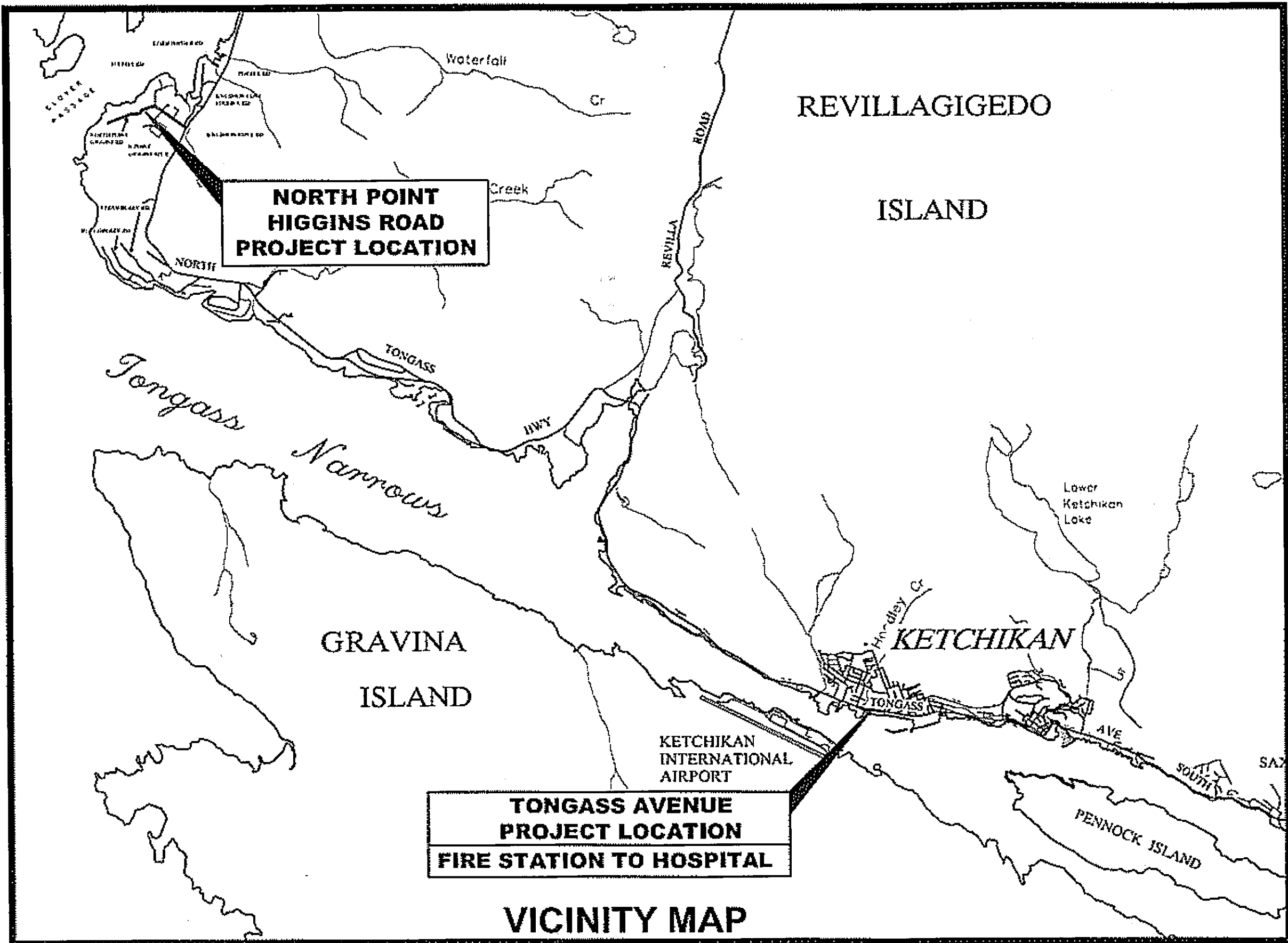
State of Alaska

Department of Transportation
and Public Facilities
Southeast Region

KTN - FFY08 AREAWIDE PAVING AC-NH-0003(131) ~ 67791

TONGASS AVENUE FIRE STATION TO HOSPITAL

N. POINT HIGGINS ROAD



TONGASS AVENUE - PROJECT SUMMARY

LENGTH OF PROJECT	=	0.3 MILES
LENGTH OF RESURFACING	=	0.3 MILES
WIDTH OF RESURFACING	=	VARIES 22-48 FT
A.D.T. 2007	=	16,720
V	=	25 MPH

NORTH POINT HIGGINS ROAD - PROJECT SUMMARY

LENGTH OF PROJECT	=	0.9 MILES
LENGTH OF RESURFACING	=	0.9 MILES
WIDTH OF RESURFACING	=	24 FT
A.D.T. 2007	=	2,060
V	=	25 MPH

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:

A-1	D-23.01	T-20.02	T-23.00
C-03.10	I-20.13	T-21.02	T-32.10
C-05.10	T-06.00	T-22.03	

INDEX

SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2	ESTIMATES OF QUANTITIES
B1-B10	TONGASS AVENUE
C1-C7	NORTH POINT HIGGINS ROAD
D1-D2	MISCELLANEOUS DETAILS
E1-E2	TRAFFIC CONTROL PLAN

As-Built Plans

Project Engineer: Jack Lee
Contractor: Secon Inc
Beginning Date: July 30, 2008
Ending Date: September 29, 2008

PATH: Q:\KTN\67791\PLANSET\A1_TSHT.DWG TAB:A1
PLOT: PSPACE OR MSPACE: 1=1(F)

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION



APPROVED: *Victor M. Winters* 6-16-08
REGIONAL PRE-CONSTRUCTION ENGINEER
VICTOR M. WINTERS, P.E. DATE

APPROVED: *Malcolm A. Menzies* 6-16-08
DIRECTOR, SOUTHEAST REGION
MALCOLM A. MENZIES, L.S. & P.E. DATE

CERTIFIED TRUE & CORRECT AS-BUILT OF ACTUAL FIELD
CONDITION:

CONSTRUCTION PROJECT MANAGER DATE

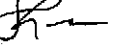
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	AC-NH-0003(131) ~ 67791	2008	A1	23

ESTIMATE OF QUANTITIES

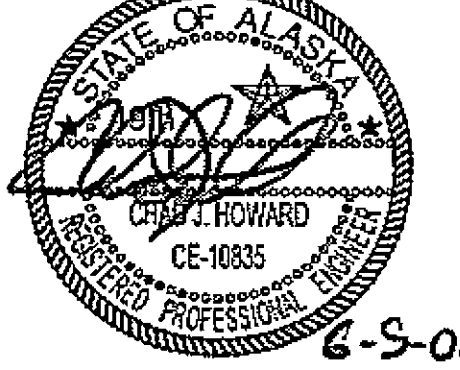
ITEM NUMBER	ITEM DESCRIPTION	PAY UNIT	COMBINED QUANTITY	TONGASS AVE	NORTH POINT HIGGINS
202(2)	REMOVAL OF PAVEMENT	SQUARE YARD	~~249~~ 238.08	~~249~~ 238.08	
203(19)	SUBGRADE REPAIR	CONTINGENT SUM	\$ 1,174.29	\$ 1,174.29	
401(1)	ASPHALT CONCRETE, SP, TYPE B	TON	~~3,000~~ 2826.30	~~635~~ 635.42	~~2,385~~ 2190.88
401(2)	ASPHALT CEMENT, GRADE PG 64-28	TON	~~180~~ 197.50	~~38~~ 53.67	~~44~~ 142.83
401(3)	ASPHALT PRICE ADJUSTMENT	CONTINGENT SUM	~~(5,369.97)~~	ALL REQUIRED	ALL REQUIRED
402(1)	STE-1 ASPHALT FOR TACK COAT	TON	~~21~~ 0.88	~~20~~ 0.88	~~0.1~~ 0
408 (1)	PAVEMENT COLD PLANING	SQUARE YARD	~~17,582.62~~ 18,000	~~43,964.44~~ 4,865	~~13,176~~ 1813.135
508(1)	WATERPROOFING MEMBRANE	LUMP SUM	ALL REQUIRED	ALL REQUIRED	
604(3)	RECONSTRUCT EXISTING MANHOLE	EACH	~~2~~ 1	~~2~~ 1	
604(4)	ADJUST EXISTING MANHOLE	EACH	~~5~~ 6	~~5~~ 6	
626(3)	ADJUSTMENT OF SANITARY SEWER CLEANOUT	EACH	~~1~~ 0	~~1~~ 0	
627(10)	ADJUSTMENT OF VALVE BOX	EACH	~~40~~ 17	~~40~~ 17	
640(1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
640(4)	WORKER MEALS AND LODGING, OR PER DIEM	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
641(1)	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
641(2)	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL	CONTINGENT SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
641(7)	INLET PROTECTION	EACH	28 ✓	21 ✓	7 ✓
642(1)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
642(11)	ADJUST EXISTING MONUMENT CASE	EACH	1 ✓	1 ✓	
643(2)	TRAFFIC MAINTENANCE	LUMP SUM	\$30,000.00	ALL REQUIRED	ALL REQUIRED
643(15)	FLAGGING	CONTINGENT SUM	\$22,980.50	ALL REQUIRED	ALL REQUIRED
643(25)	TRAFFIC CONTROL	CONTINGENT SUM	\$5,151.50	ALL REQUIRED	ALL REQUIRED
660(11)	TRAFFIC LOOP	EACH	~~40~~ 17	~~40~~ 17	
670(1)	PAINTED TRAFFIC MARKINGS	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
670(8)	RECESSED PAVEMENT MARKER	EACH	~~40~~ 61	~~40~~ 61	

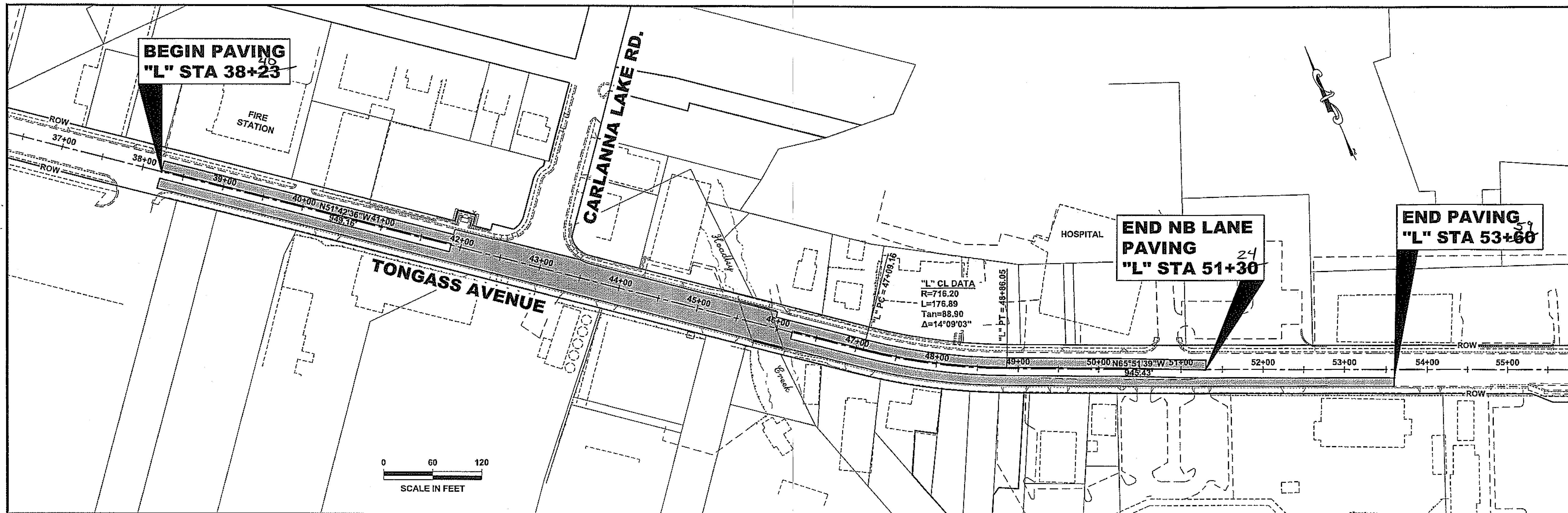
BASIS OF ESTIMATE

ITEM NO.	ITEM DESCRIPTION	ESTIMATING FACTOR
401(1)	ASPHALT CONCRETE, SP, TYPE B	120 LB/ S.Y. / IN
401(2)	ASPHALT CEMENT, GRADE PG 64-28	6.0% OF ITEM 401(1)
402(1)	STE-1 ASPHALT FOR TACK COAT	0.1 GAL / S.Y. ; 243 GAL / TON

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.
Proj. Engr  Date 3-5-09

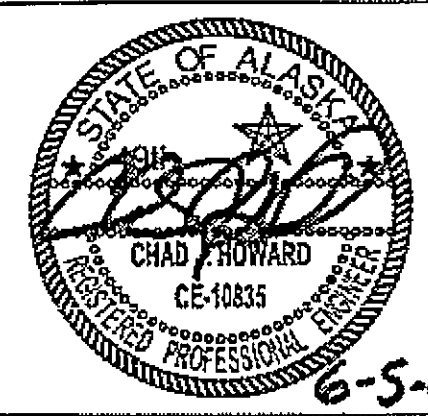
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

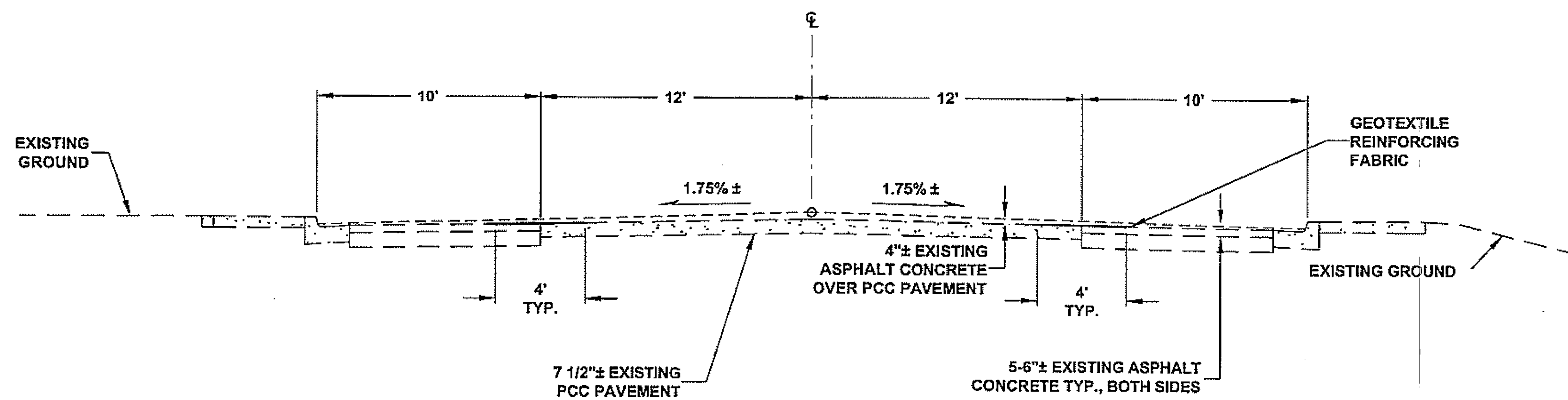
CHECKED BY: C. HOWARD		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION	
		KTN - FFYO8 AREAWIDE PAVING PROJECT # 67791	
DESIGNED BY: J. WEAVER		ESTIMATE OF QUANTITIES	
DRAWN BY: R. SNYDER			
PATH: Q:\PSG\68076\PLANSET\GUARDRAIL\68076_F_PLAN_5-23-07.DWG			
TAB: A2		RKSNYDER	
REVISIONS		PROJECT DESIGNATION	YEAR
NO.	DATE	DESCRIPTION	SHEET NO.
			TOTAL SHEETS
		AC-NH-0003(131) ~ 67791	2008
			A2
			23



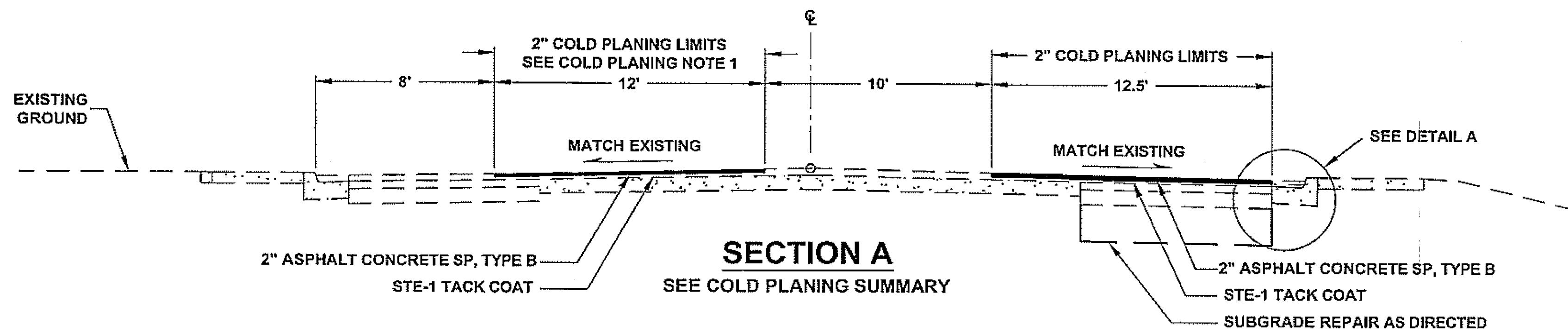
Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.
 Proj. Eng. *[Signature]* Date 3-5-09

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

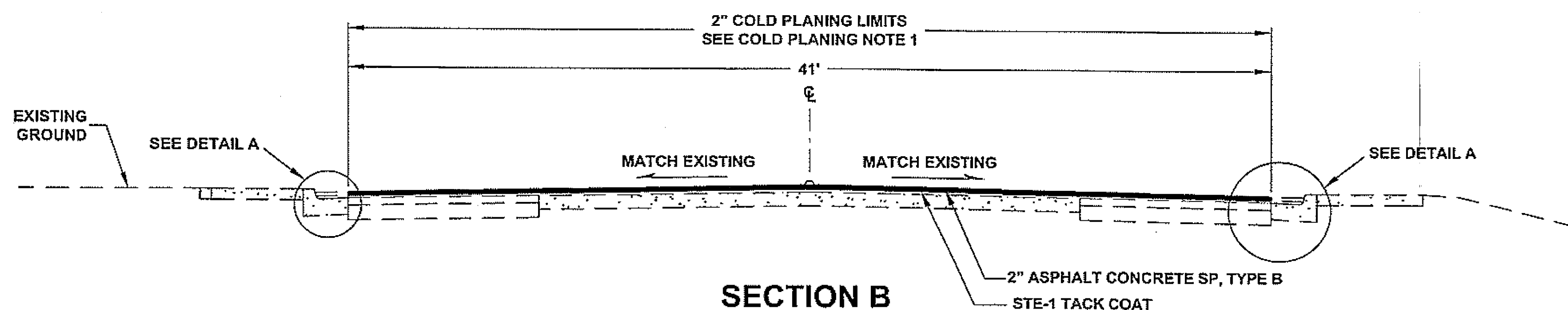
CHECKED BY: C. HOWARD 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION KTN - FFYO8 AREAWIDE PAVING PROJECT # 67791												
DESIGNED BY: J. WEAVER DRAWN BY: R. SNYDER		TONGASS AVENUE PROJECT LAYOUT PLAN												
PATH: Q:\KTN\67791\PLANSET\B_PROJECT-TONGASS.DWG TAB: B1		RKSNYDER												
<table border="1"> <thead> <tr> <th colspan="3">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		REVISIONS			NO.	DATE	DESCRIPTION				PROJECT DESIGNATION AC-NH-0003(131) ~ 67791	YEAR 2008	SHEET NO. B1	TOTAL SHEETS 23
REVISIONS														
NO.	DATE	DESCRIPTION												



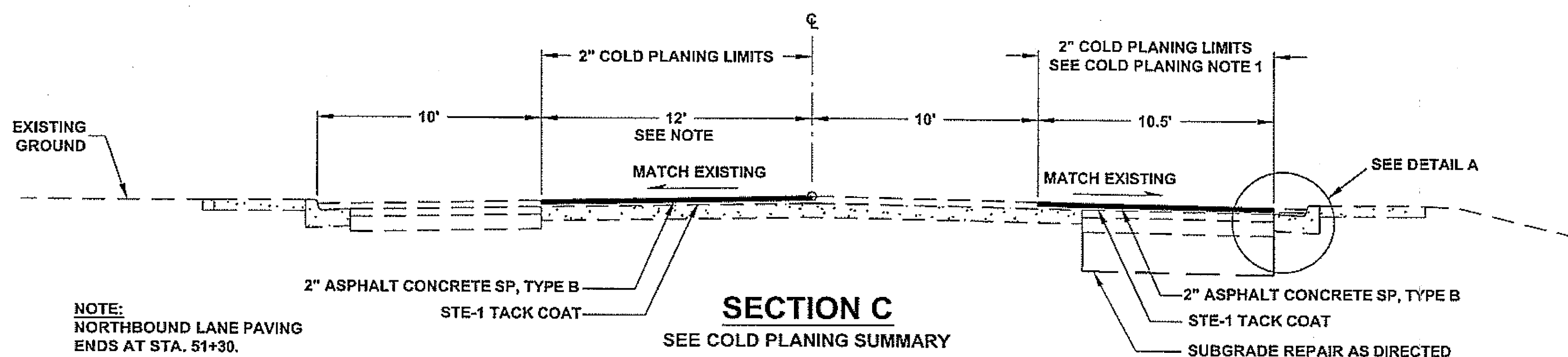
EXISTING TYPICAL SECTION
STA. 38+23 TO STA. 53+60



SECTION A
SEE COLD PLANING SUMMARY



SECTION B
SEE COLD PLANING SUMMARY



SECTION C
SEE COLD PLANING SUMMARY

NOTE:
NORTHBOUND LANE PAVING
ENDS AT STA. 51+30.

GENERAL NOTES

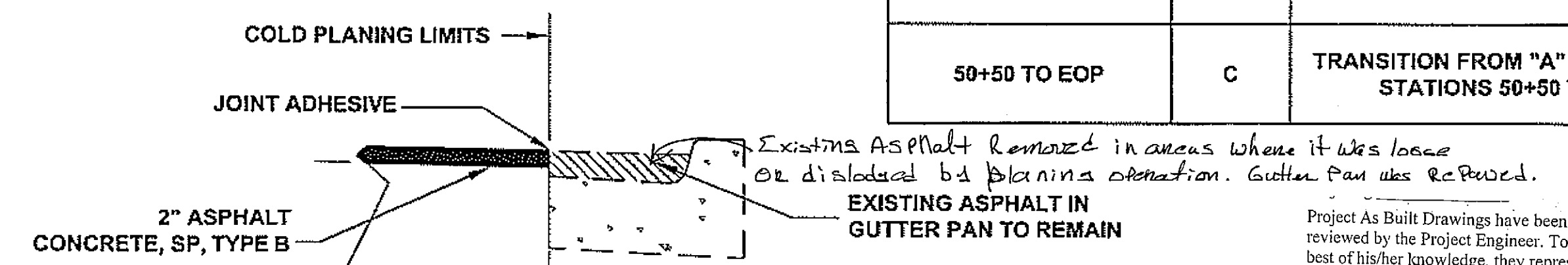
1. INFORMATION CONTAINED IN THESE DOCUMENTS HAS BEEN COMPILED FROM AS-BUILT DRAWINGS AND AERIAL PHOTOGRAPHY. FIELD VERIFY ALL EXISTING SITE CONDITIONS AND DIMENSIONS.
2. THE PORTLAND CEMENT CONCRETE PAVEMENT RUNS THE ENTIRE LENGTH OF THE PROJECT. THE CONCRETE SLAB AND CONCRETE PATCHES ARE DOWELED MID-DEPTH OF THE SLAB. DOWELS ARE PLACED IN ALL CONSTRUCTION AND CONTRACTION JOINTS. DOWEL SPACING VARIES BETWEEN 12"-24" ON CENTER.
3. SUMMARY TABLES ARE FOR BIDDING INFORMATION ONLY. ALL MANHOLES, MONUMENT CASES, VALVE BOXES, ETC SHALL BE FIELD LOCATED, PRIOR TO COLD PLANING OPERATIONS.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SET CONTROL FOR THE COLD PLANING, PAVING, TEMPORARY AND PERMANENT TRAFFIC MARKINGS AND OTHER ITEMS NECESSARY TO COMPLETE THE WORK. SETTING CONTROL POINTS FOR PERMANENT TRAFFIC MARKINGS SHALL BE COORDINATED WITH THE ENGINEER.
5. THE TYPICAL SECTIONS SHALL BE USED AS GENERAL GUIDELINES FOR AN AREA. THE ENGINEER WILL INDICATE ACTUAL LIMITS OF WORK.
6. SEE SUBSECTION 401-3.14 OF THE SPECIAL PROVISIONS REGARDING JOINTS.

COLD PLANING NOTES

1. COLD PLANING WIDTHS AND DEPTHS MAY VARY AND ARE SUBJECT TO MINOR REVISIONS AS DETERMINED BY THE ENGINEER. TYPICAL DEPTH IS 2". SEE PLAN SHEETS FOR AREAS WHERE THE DEPTH OF COLD PLANING IS INCREASED. REPLACE WITH ASPHALT THICKNESS MATCHING COLD PLANING DEPTH.
2. COLD PLANING EQUIPMENT SHALL BE OPERATED IN SUCH A MANNER AS TO PREVENT DAMAGE TO MANHOLES, WATER VALVES, MONUMENTS, DOWELS, AND OTHER OBSTRUCTIONS.
3. EXISTING TRAFFIC MARKINGS REMOVED BY COLD PLANING OR BLOTTED OUT BY SURFACING OPERATIONS SHALL BE RESTORED IN ACCORDANCE WITH THE SPECIFICATIONS. SETTING CONTROL POINTS FOR REINSTALLING TRAFFIC MARKINGS SHALL BE COORDINATED WITH THE ENGINEER.
4. PRIOR TO PLANING OPERATIONS, INLETS, CATCH BASINS, AND DRAINS SHALL BE SUFFICIENTLY BARRICADED SO AS TO PREVENT DEBRIS FROM ENTERING THE DRAINAGE SYSTEM, OR STREAMS.
5. COLD PLANING OPERATIONS SHALL COMMENCE ON THE LOWEST SIDE OF ROADWAY TO FACILITATE DRAINAGE.
6. WHEN NOT COLD PLANING FULL WIDTH (SECTION "A" & "C"), THE LIMITS OF COLD PLANING SHALL BE ADJUSTED TO JUST OUTSIDE THE EXISTING OVERLAY JOINT, AS DIRECTED BY THE ENGINEER.
7. COLD PLANING IN PORTLAND CEMENT CONCRETE PAVEMENT IS REQUIRED. STATIONS AND AREAS HAVE BEEN ESTIMATED AND SHOWN ON SHEET B3.
8. THE PAVEMENT MATERIAL REMOVED ON THE PROJECT SHALL BE STOCKPILED AT THE DOT/PF MAINTENANCE YARD AT 5148 N. TONGASS HWY. ASPHALT CHUNKS SHALL BE STOCKPILED SEPARATELY FROM THE GRINDINGS. THE CONCRETE SLAB FROM CARLANTA LAKE ROAD SHALL BE DISPOSED AT AN APPROVED DISPOSAL SITE.
9. PAVEMENT ON THE BRIDGE AT HOADLEY CREEK SHALL NOT BE REMOVED BY COLD PLANING. SEE SECTION 202 OF THE SPECIAL PROVISIONS.

COLD PLANING SUMMARY

STATION TO STATION	SECTION TYPE	REMARKS
BOP TO 41+88	A	
41+88 TO 46+20	B	SEE NOTE 9 FOR HOADLEY CREEK BRIDGE
46+20 TO 50+50	A	
50+50 TO EOP	C	TRANSITION FROM "A" TO "C" ACROSS STATIONS 50+50 TO 51+00



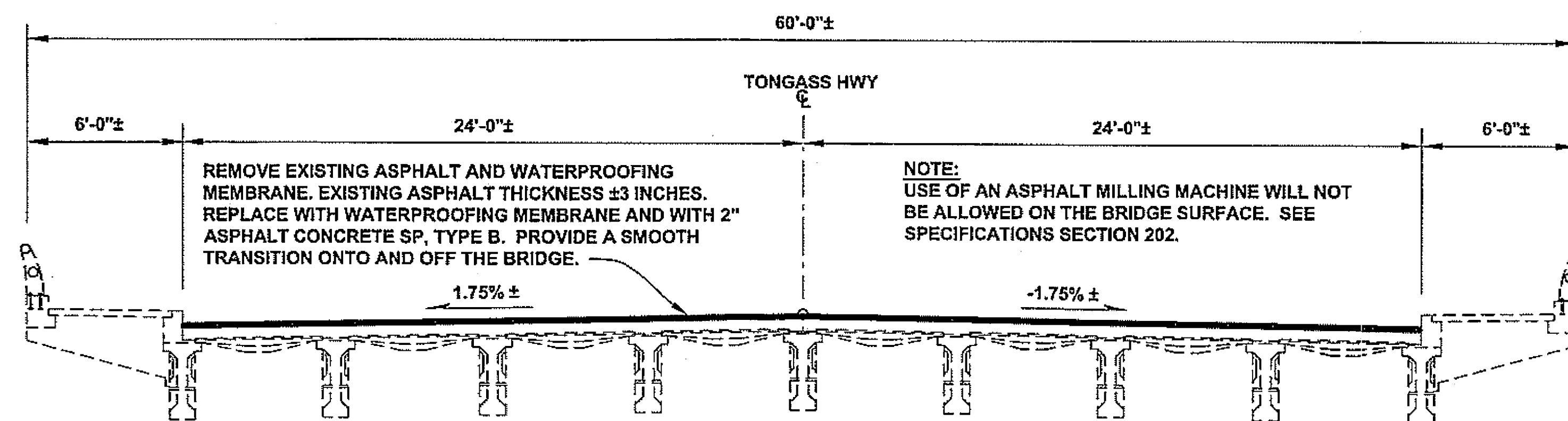
DETAIL A

WHERE APPLICABLE, ASPHALT DOES NOT ABUT CURB IN ALL AREAS.

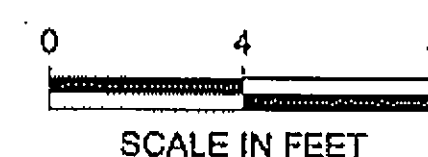


DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. HOWARD 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION KTN - FFYO8 AREA-WIDE PAVING PROJECT # 67791 TONGASS AVENUE TYPICAL SECTION	
DESIGNED BY: J. WEAVER DRAWN BY: R. SNYDER PATH: Q:\KTN\67791\PLAN\SETB_TYPS-TONGASS.DWG TAB: B2		RKSNYDER PROJECT DESIGNATION: AC-NH-0003(131) ~ 67791 YEAR: 2008 SHEET NO.: B2 TOTAL SHEETS: 23	



**PROPOSED TYPICAL SECTION
HOADLEY CREEK BRIDGE**



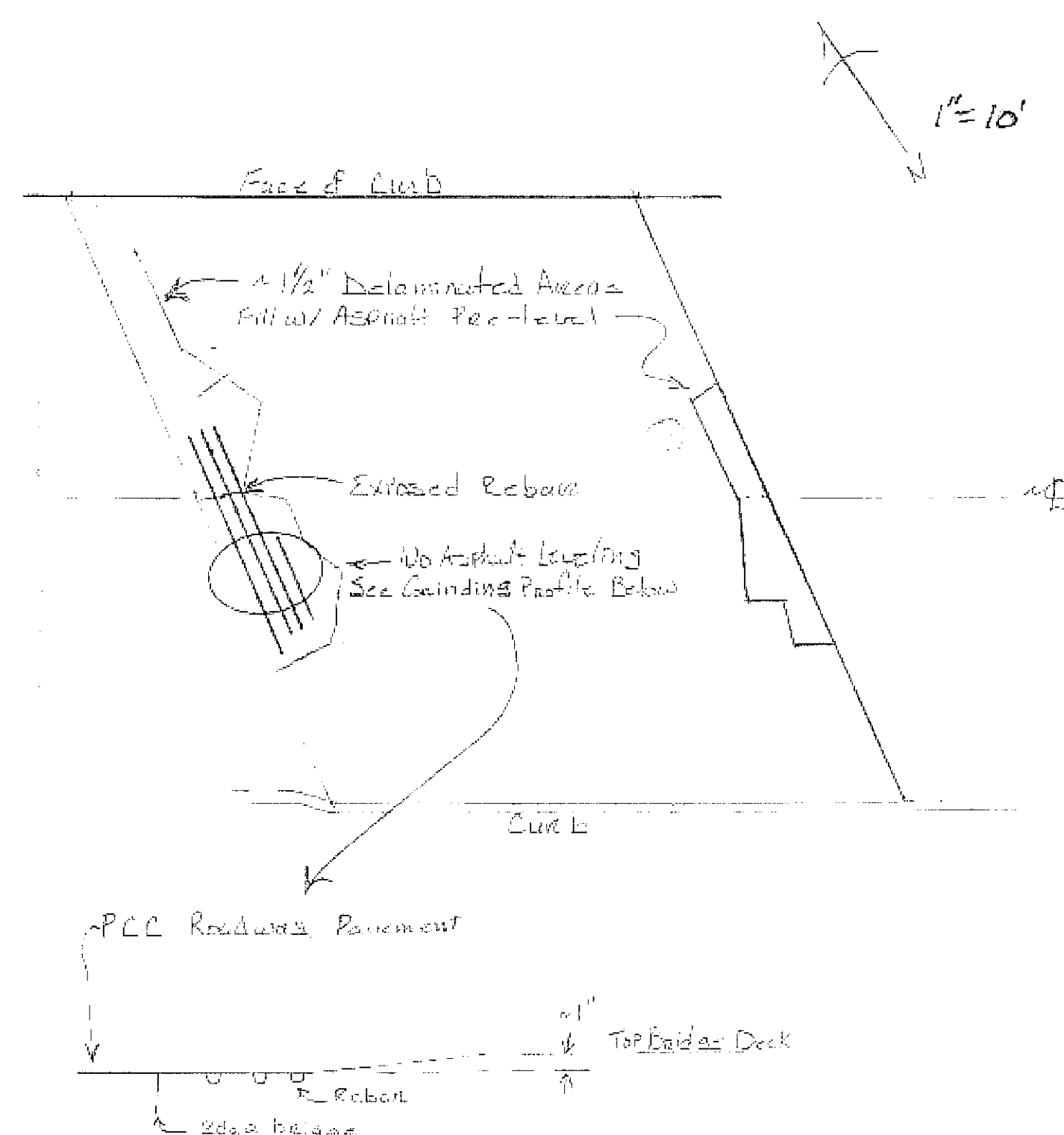
The bridge surface was delaminated in several areas and an asphalt leveling course was used prior to membrane application, (see drawing). These delaminated areas were adhered to the asphalt and pulled up when the pavement was removed. The remaining surface showed evidence of being milled during a past project which left the typical rough surface and exposed the rebar mat in one area. Soundings with a hammer indicated several other areas of potential delamination.

202(2) REMOVAL OF PAVEMENT SUMMARY		
LOCATION	QUANTITY	REMARKS
HOADLEY CREEK BRIDGE	236 SY ASPHALT	REMOVE FULL DEPTH
42+37	13 SY CONCRETE	REMOVE TRANSVERSE UTILITY PATCH FULL DEPTH

COLD PLANING IN PORTLAND CONCRETE PAVEMENT SUMMARY				
STATION	OFFSET		2" COLD PLANING (SY)	REMARKS
	LT.	RT.		
40+35		22	2	CURB CUT REPAIR
43+20	2.5	22	11	UTILITY PATCH
50+50		10	12	UNDERLYING PCC EXPOSED

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES
Computations
For: *Hoadley Creek Bridge*

Item No. _____
DATE _____
Project No. _____
Project Name _____
Calc. by _____
Checked By _____

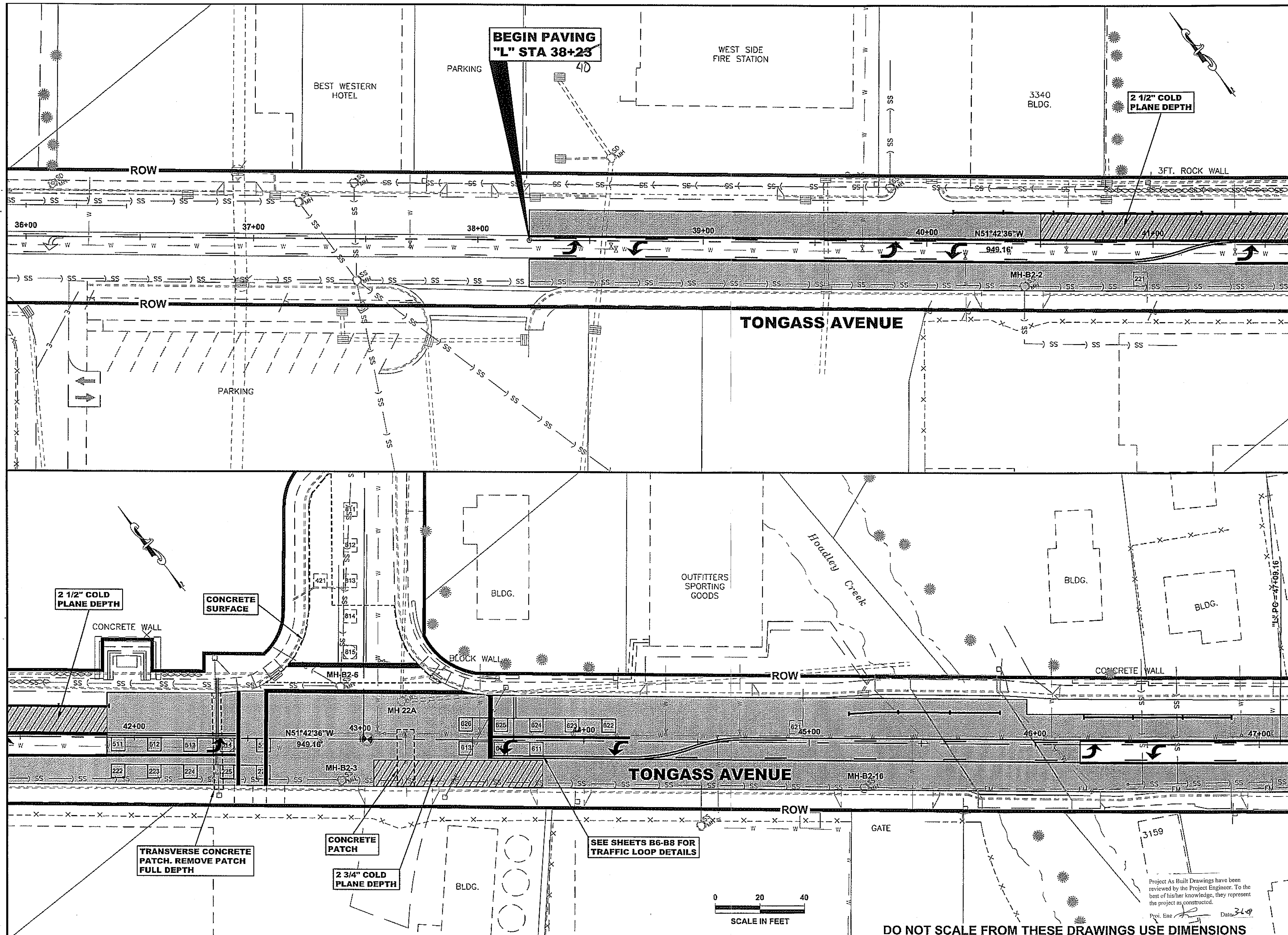


Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

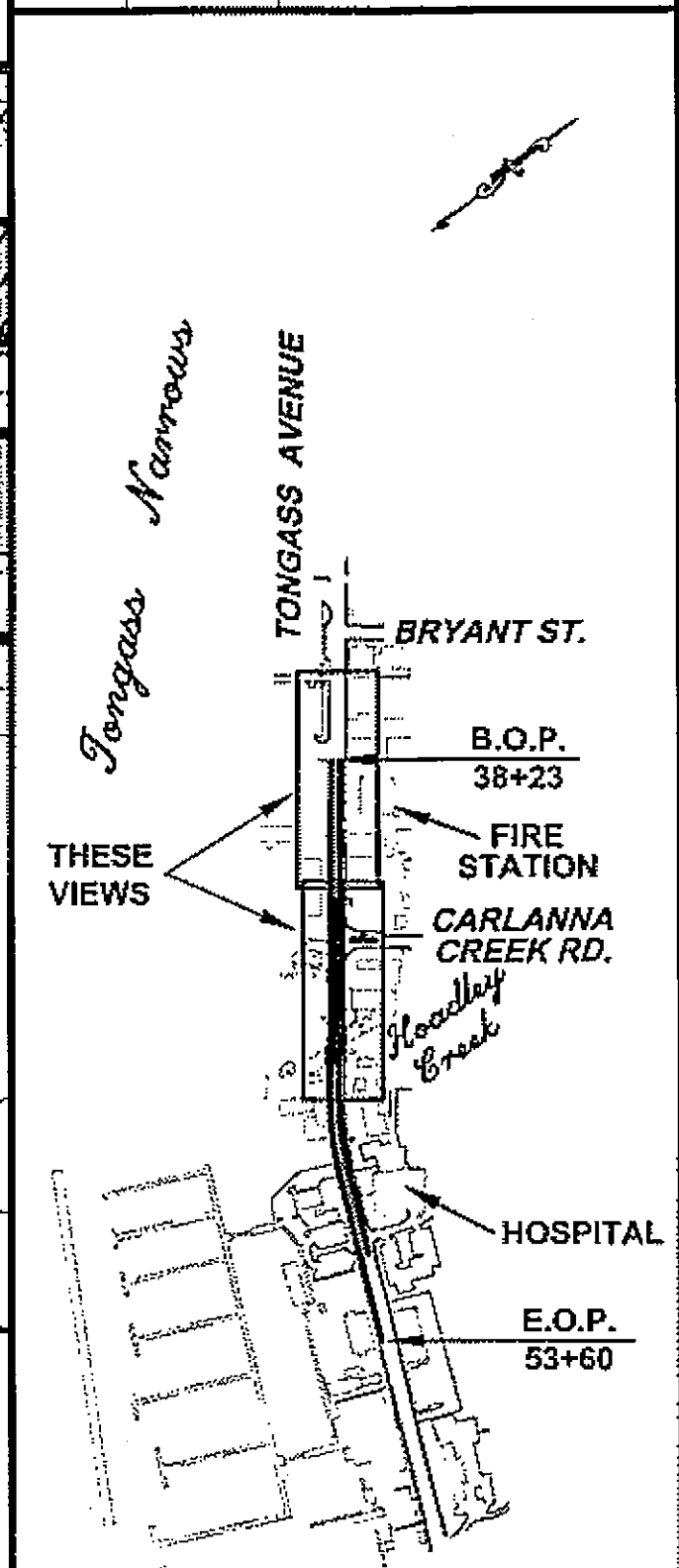
Proj. Eng. *[Signature]* Date: *3-5-07*

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CHECKED BY: C. HOWARD 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION KTN - FFYO8 AREAWIDE PAVING PROJECT # 67791 TONGASS AVENUE TYPICAL SECTION	
DESIGNED BY: J. WEAVER DRAWN BY: R. SNYDER PATH: Q:\KTM67791\PLANSET\B_TYPS-TONGASS.DWG TAB: B3		RKSNYDER PROJECT DESIGNATION: AC-NH-0003(131) ~ 67791 YEAR: 2008 SHEET NO.: B3 TOTAL SHEETS: 23	



PATH: Q:\KTNI67791\PLANSET\B_PLAN-TONGASS.DWG		
TAB: B4 RKSNYDER		
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



PLAN LEGEND

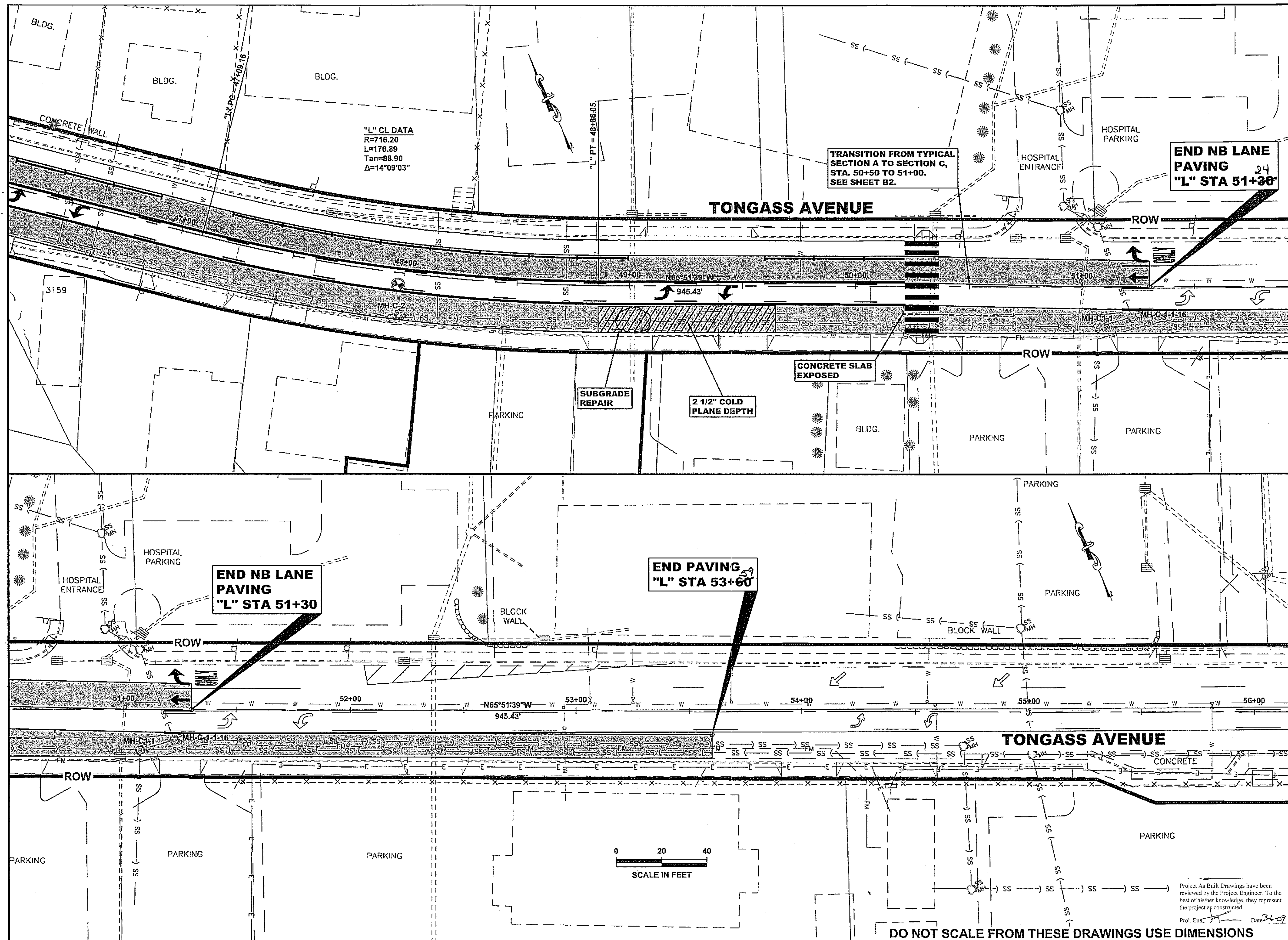
CHECKED BY: C. HOWARD

DESIGNED BY: J. WEAVER
 DRAWN BY: R. SNYDER
 STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 DESIGN & ENGINEERING SERVICES
 DIVISION - SOUTH EAST REGION
 KTN - FFY08
 AREAWIDE PAVING
 PROJECT NO. 67791

PROJECT DESIGNATION	
AC-NH-0003(131) ~ 67791	
STATE	YEAR
ALASKA	2008
SHEET NUMBER	TOTAL SHEETS
B4	23

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.
 Proj. Eng. *[Signature]* Date: 3-1-09

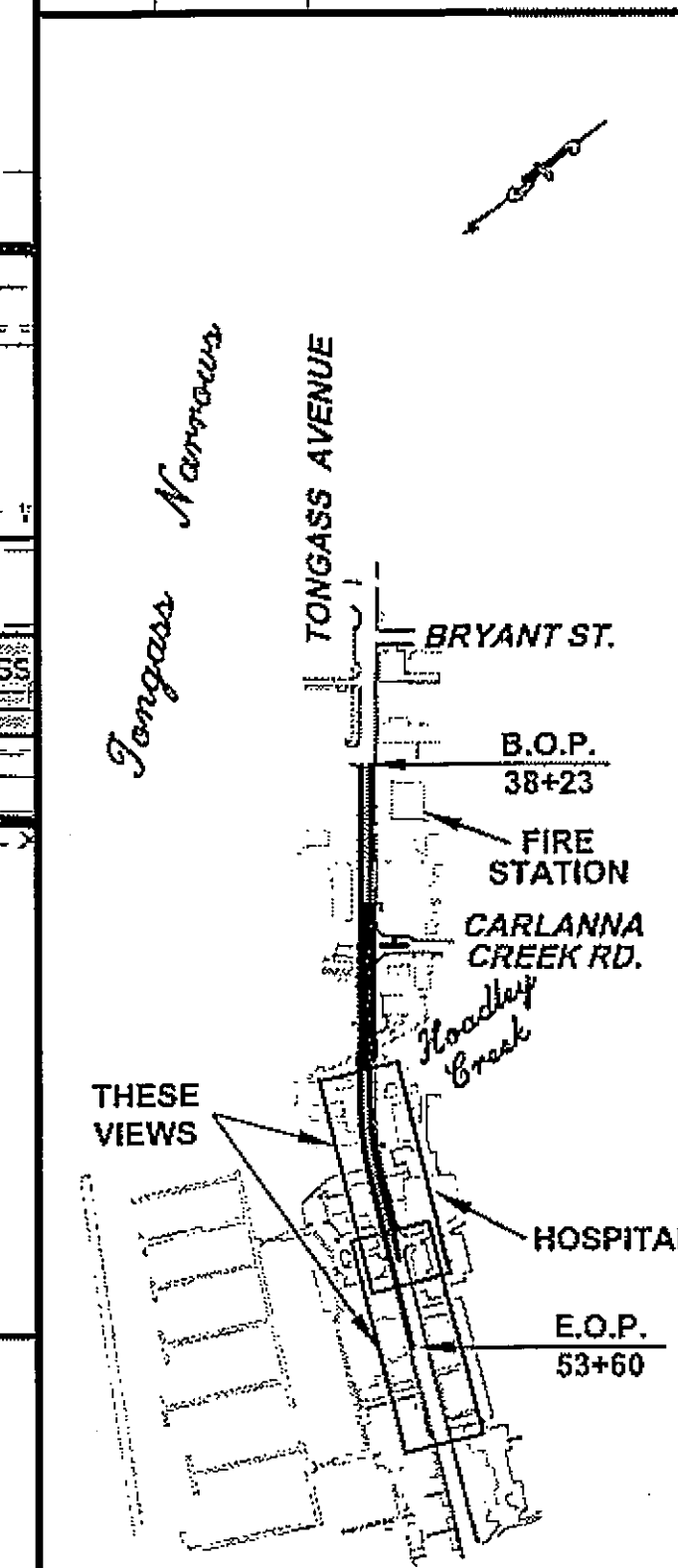
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



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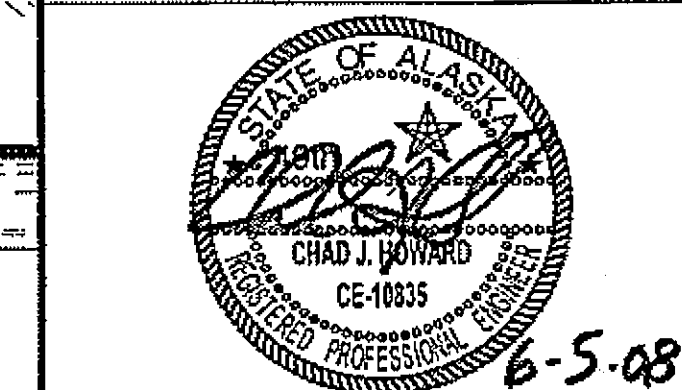
TAB: B5 RKSNYDER

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: C. HOWARD



DESIGNED BY: J. WEAVER

DRAWN BY: R. SNYDER

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 DESIGN & ENGINEERING SERVICES
 DIVISION-SOUTHEAST REGION
 KTN - FFY08
 AREA-WIDE PAVING
 PROJECT NO. 67791

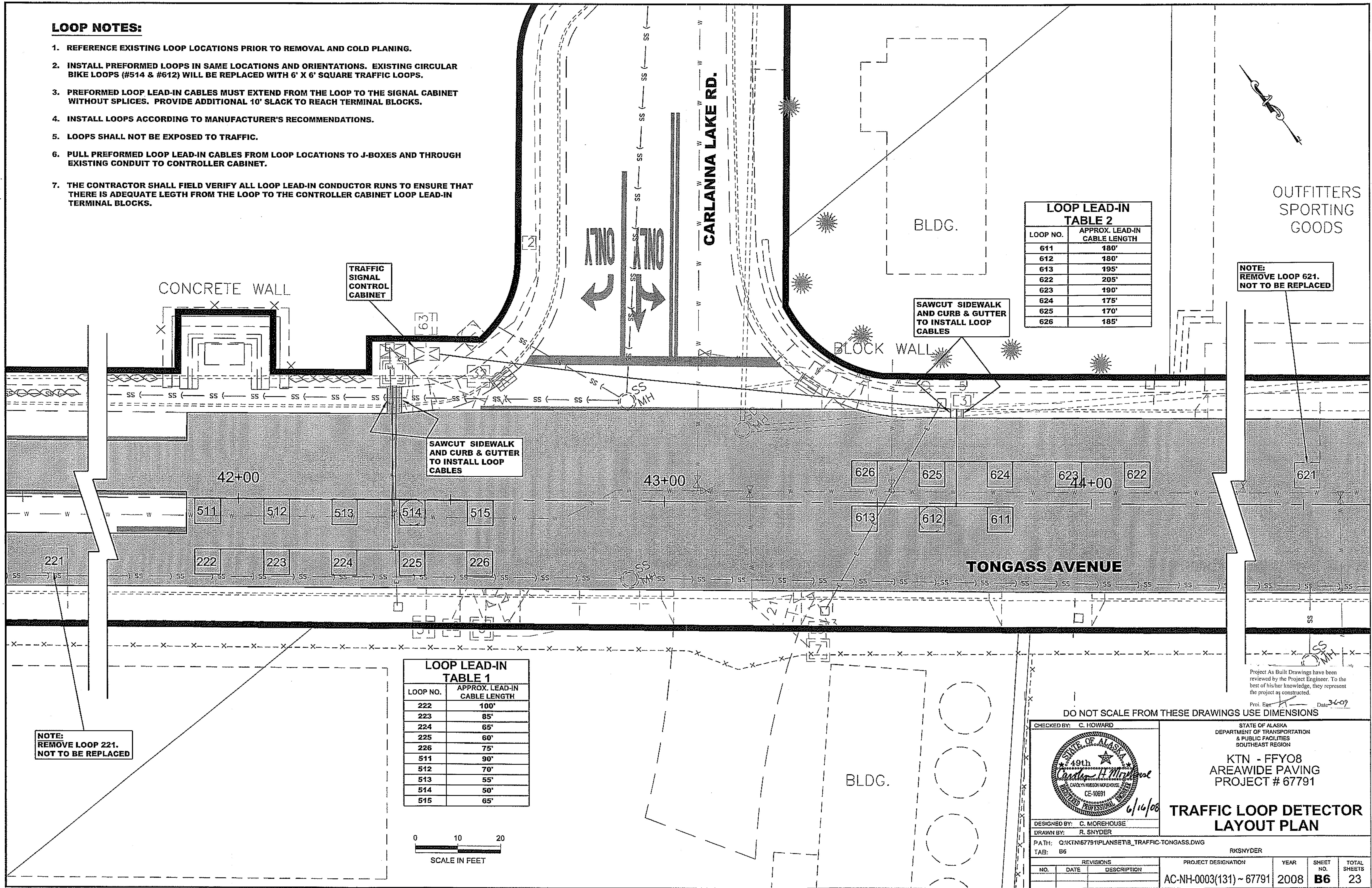
TONGASS AVENUE PLAN

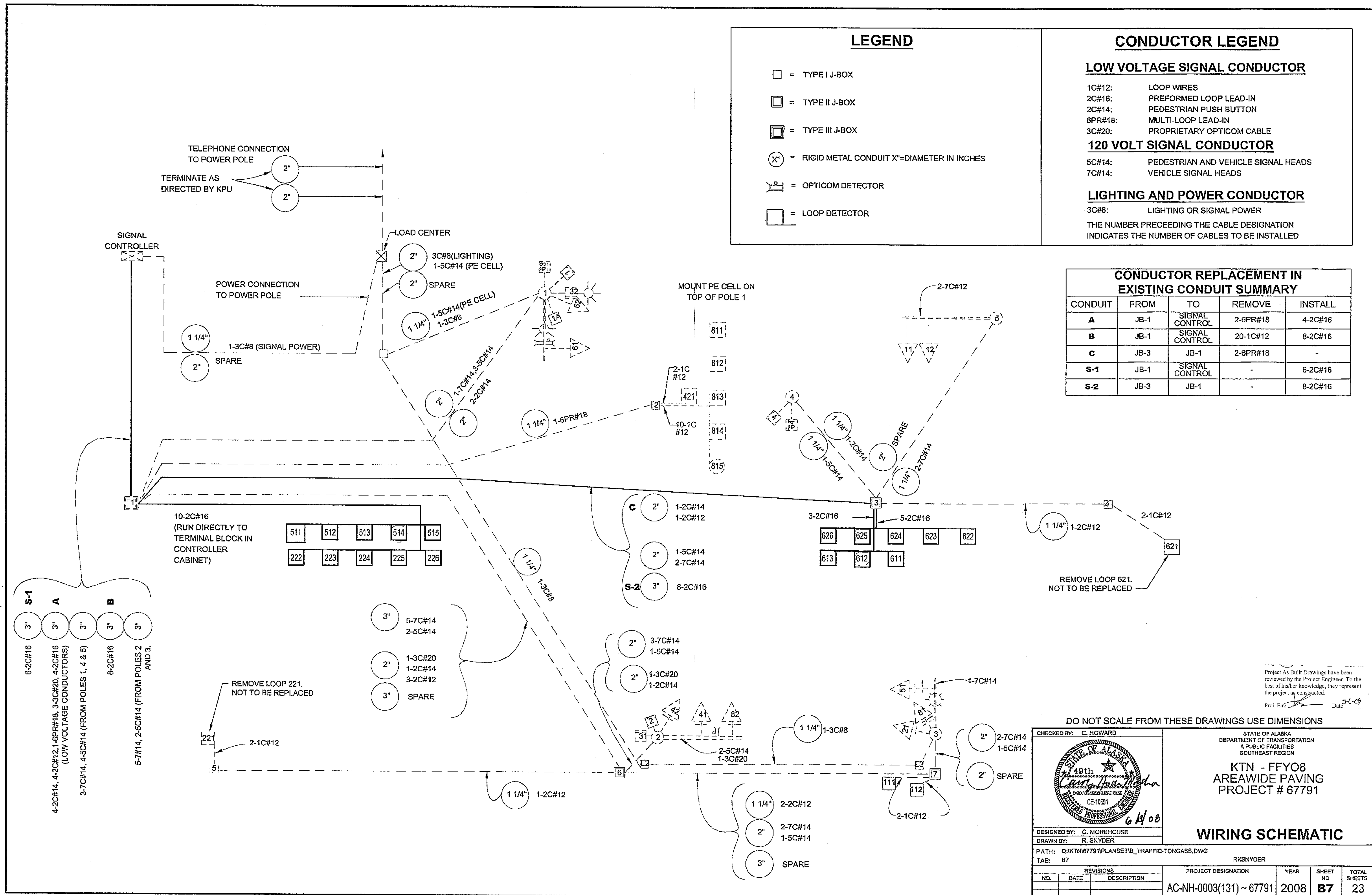
PROJECT DESIGNATION
AC-NH-0003(131) ~ 67791

STATE	YEAR
ALASKA	2008
SHEET NUMBER	TOTAL SHEETS
B5	23

LOOP NOTES:

1. REFERENCE EXISTING LOOP LOCATIONS PRIOR TO REMOVAL AND COLD PLANING.
2. INSTALL PREFORMED LOOPS IN SAME LOCATIONS AND ORIENTATIONS. EXISTING CIRCULAR BIKE LOOPS (#514 & #612) WILL BE REPLACED WITH 6' X 6' SQUARE TRAFFIC LOOPS.
3. PREFORMED LOOP LEAD-IN CABLES MUST EXTEND FROM THE LOOP TO THE SIGNAL CABINET WITHOUT SPLICES. PROVIDE ADDITIONAL 10' SLACK TO REACH TERMINAL BLOCKS.
4. INSTALL LOOPS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
5. LOOPS SHALL NOT BE EXPOSED TO TRAFFIC.
6. PULL PREFORMED LOOP LEAD-IN CABLES FROM LOOP LOCATIONS TO J-BOXES AND THROUGH EXISTING CONDUIT TO CONTROLLER CABINET.
7. THE CONTRACTOR SHALL FIELD VERIFY ALL LOOP LEAD-IN CONDUCTOR RUNS TO ENSURE THAT THERE IS ADEQUATE LGTH FROM THE LOOP TO THE CONTROLLER CABINET LOOP LEAD-IN TERMINAL BLOCKS.





LEGEND

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

CONDUCTOR LEGEND

LOW VOLTAGE SIGNAL CONDUCTOR

- 1C#12: LOOP WIRES
- 2C#16: PREFORMED LOOP LEAD-IN
- 2C#14: PEDESTRIAN PUSH BUTTON
- 6PR#18: MULTI-LOOP LEAD-IN
- 3C#20: PROPRIETARY OPTICOM CABLE

120 VOLT SIGNAL CONDUCTOR

- 5C#14: PEDESTRIAN AND VEHICLE SIGNAL HEADS
- 7C#14: VEHICLE SIGNAL HEADS

LIGHTING AND POWER CONDUCTOR

- 3C#8: LIGHTING OR SIGNAL POWER

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

CONDUCTOR REPLACEMENT IN EXISTING CONDUIT SUMMARY

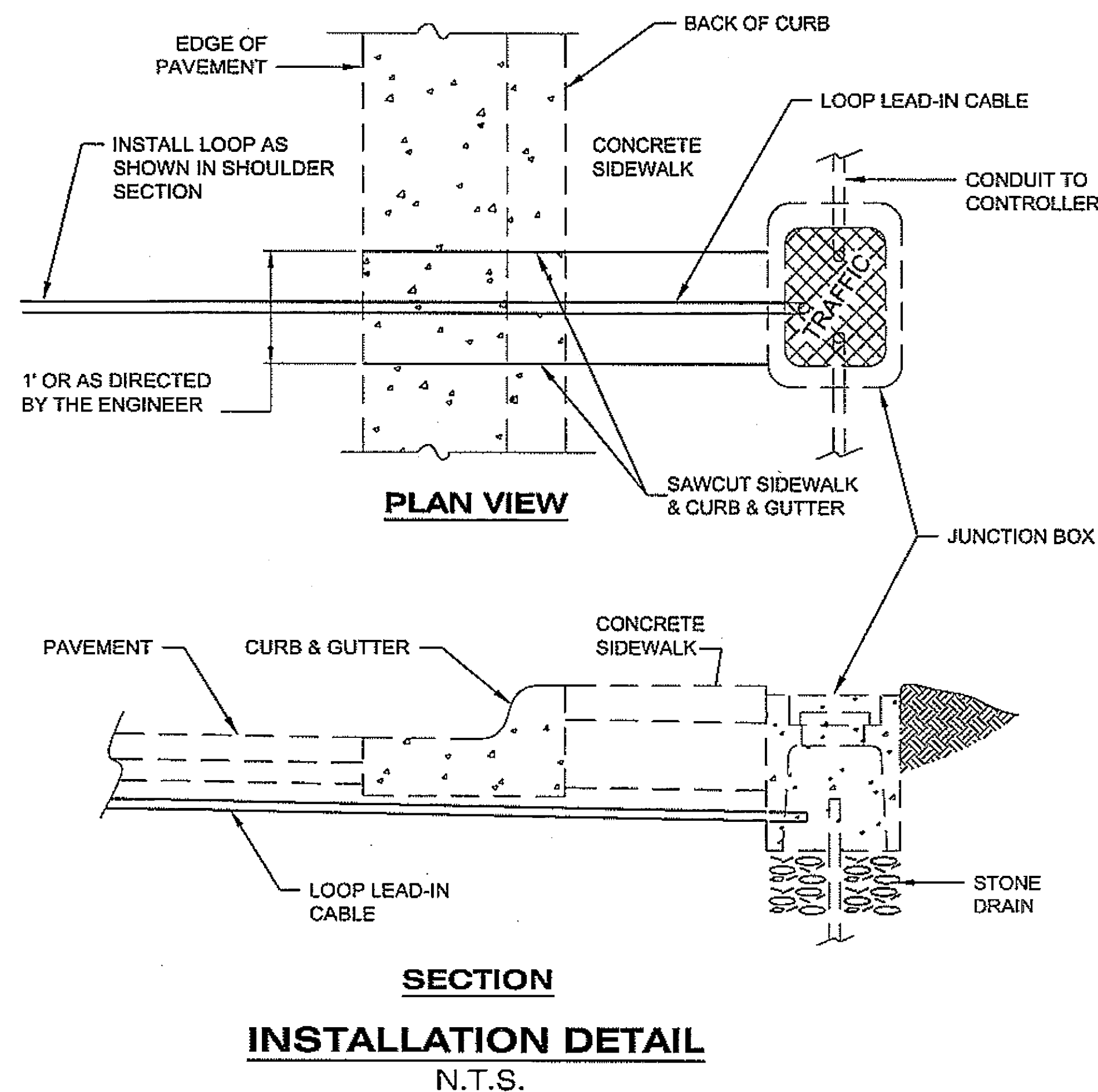
CONDUIT	FROM	TO	REMOVE	INSTALL
A	JB-1	SIGNAL CONTROL	2-6PR#18	4-2C#16
B	JB-1	SIGNAL CONTROL	20-1C#12	8-2C#16
C	JB-3	JB-1	2-6PR#18	-
S-1	JB-1	SIGNAL CONTROL	-	6-2C#16
S-2	JB-3	JB-1	-	8-2C#16

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Print, File, Date

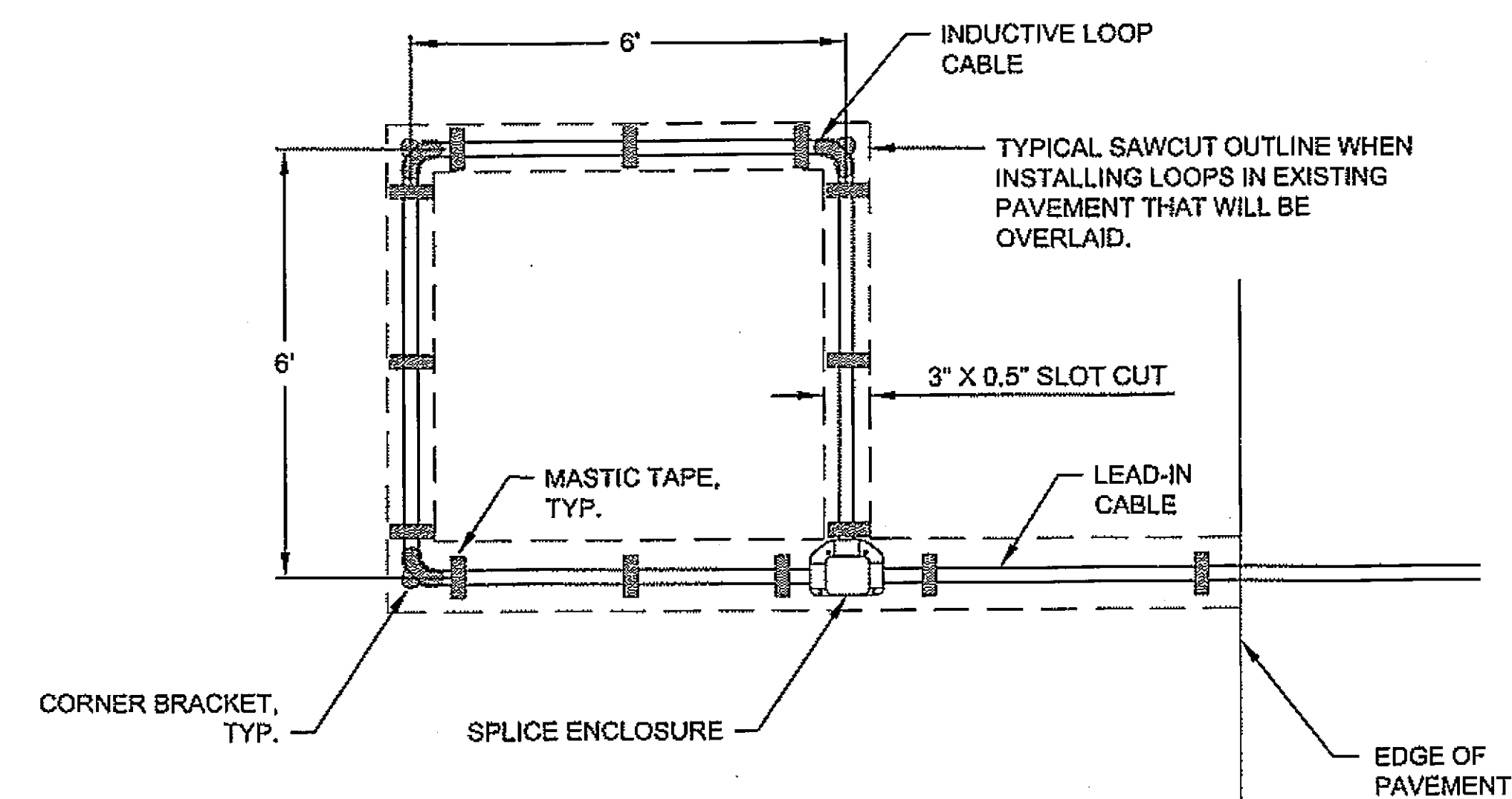
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. HOWARD 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION KTN - FFY08 AREAWIDE PAVING PROJECT # 67791	
DESIGNED BY: C. MOREHOUSE DRAWN BY: R. SNYDER		WIRING SCHEMATIC	
PATH: Q:\KTN\67791\PLANSET\B_TRAFFIC-TONGASS.DWG TAB: B7		RKSNYDER	
REVISIONS NO. DATE DESCRIPTION		PROJECT DESIGNATION AC-NH-0003(131)~ 67791	YEAR 2008
		SHEET NO. B7	TOTAL SHEETS 23



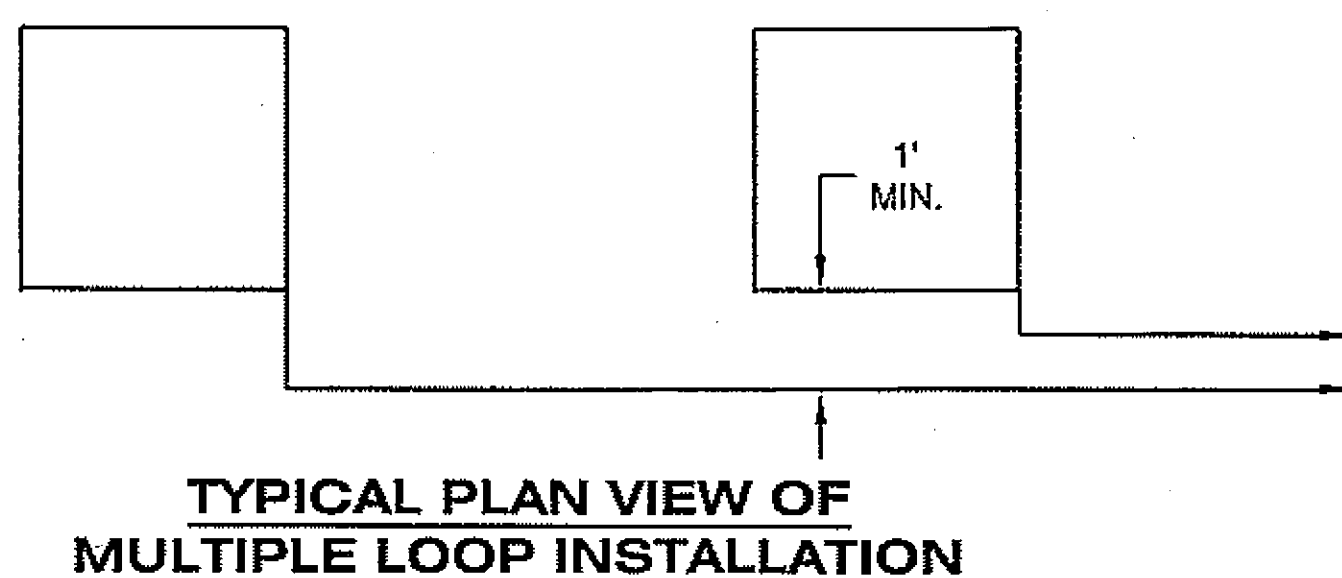
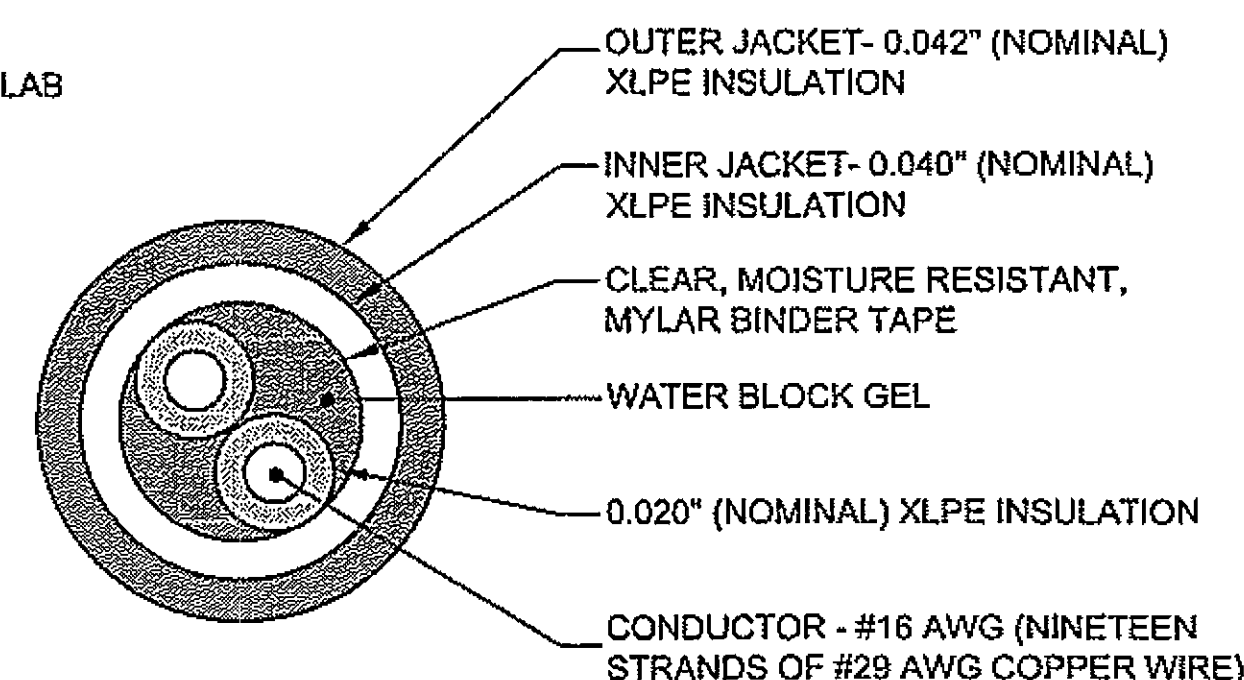
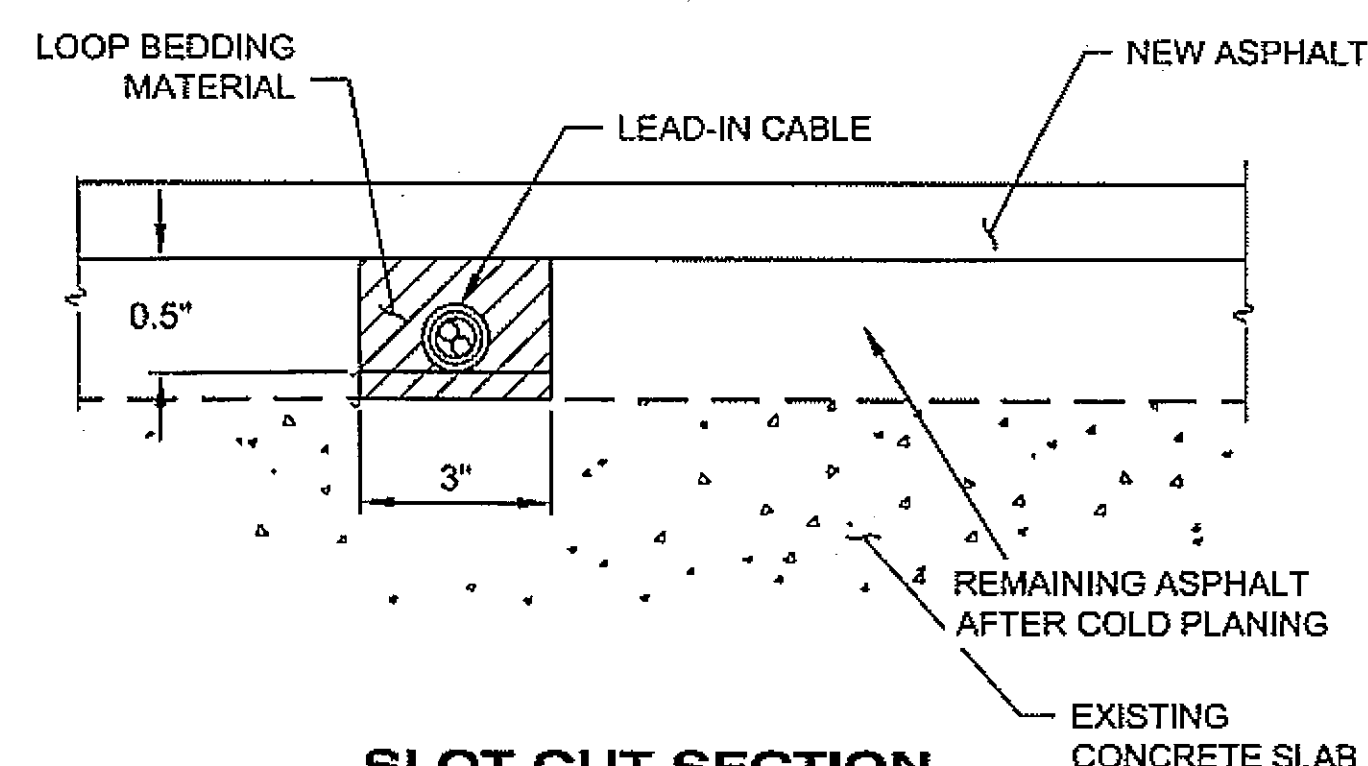
GENERAL NOTES:

1. ALL WORK ASSOCIATED WITH INSTALLING PREFORMED LOOP DETECTORS WILL BE SUBSIDIARY TO ITEM 680(11) TRAFFIC LOOP. THIS WORK INCLUDES BUT IS NOT LIMITED TO SAWCUTTING, REMOVAL OF THE EXISTING LOOPS, LOOP MATERIALS, LOOP LEAD-IN CABLE, TESTING, CONDUCTOR LABELING, CONCRETE REPAIRS AND BEDDING. REMOVAL AND INSTALLATION OF NEW ASPHALT SHALL BE PAID UNDER THEIR RESPECTIVE PAY ITEMS.
2. 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.)
3. THE CONTRACTOR SHALL GIVE THE ENGINEER 14 DAY WRITTEN NOTICE BEFORE BEGINNING LOOP REPLACEMENT SO THAT THE TRAFFIC SIGNAL CAN BE REPROGRAMMED FOR THE LOOP REPLACEMENT.
4. EXISTING LOOPS SHALL BE REMOVED AND NEW LOOPS SHALL BE REPLACED IN THE SAME LOCATION AS THE EXISTING, EXCEPT FOR LOOP NUMBERS 221 AND 621 WHICH SHALL BE REMOVED, BUT NOT REPLACED.
5. THE EXISTING 6 PAIR LOOP LEAD-IN CABLE SHALL BE REMOVED AND REPLACED WITH THE NEW PREFORMED LOOP LEAD-IN CABLE.
6. THE RENO A&E MODEL PLH PREFORMED LOOP MEETS THESE SPECIFICATIONS. USE THIS OR ANOTHER EQUIVALENT PREFORMED LOOP TO BE APPROVED BY THE D.O.T. SOUTHEAST REGIONAL TRAFFIC ENGINEER.
7. CUT THE CONCRETE WITH A SAW AND REMOVE ALL CONCRETE WITHIN THE SAW CUT.
8. INSTALL ALL LOOP DETECTORS PRIOR TO PLACING ASPHALT PAVEMENT.
9. TEST ALL LOOP DETECTORS FOR CONTINUITY AND INSULATION INTEGRITY PRIOR TO SEALING THE LOOPS UNDER ASPHALT.
10. BEDDING MATERIAL FOR THE LOOP DETECTORS SHALL MEET THE REQUIREMENTS OF 703-2.01 FINE AGGREGATE FOR CONCRETE.
11. BEDDING MATERIAL FOR THE LOOP LEAD-INS SHALL BE THE SAME AS FOR THE LOOP DETECTORS.
12. THE BEDDING MATERIAL IN THE LOOP SLOTS SHALL BE COMPACTED TO THE SATISFACTION OF THE ENGINEER PRIOR TO BEING PAVED OVER.



ASPHALT OVERLAY NOTES:

1. PLACE THE PREFORMED LOOP IN THE PROPER POSITION AND ORIENTATION ON THE ASPHALT BASE LIFT.
2. ROUTE THE LEAD-IN CABLE TO THE DESIRED TERMINATION POINT.
3. CUT THE FIBERGLASS BACKED MASTIC TAPE INTO 2" X 4" OR 3" X 4" STRIPS. USE THE MASTIC TAPE (AND OPTIONAL CORNER BRACKETS) TO HOLD THE LOOP AND LEAD-IN CABLE IN PLACE.
4. APPLY THE TOP LIFT.
NOTE: WHEN APPLYING THE TOP LIFT, MAKE CERTAIN THAT THE LOOP CABLE DOES NOT GET PULLED INTO THE AUGERS ON THE PAVING MACHINE.



TYPICAL PREFORMED LOOP DETECTOR INSTALLATION

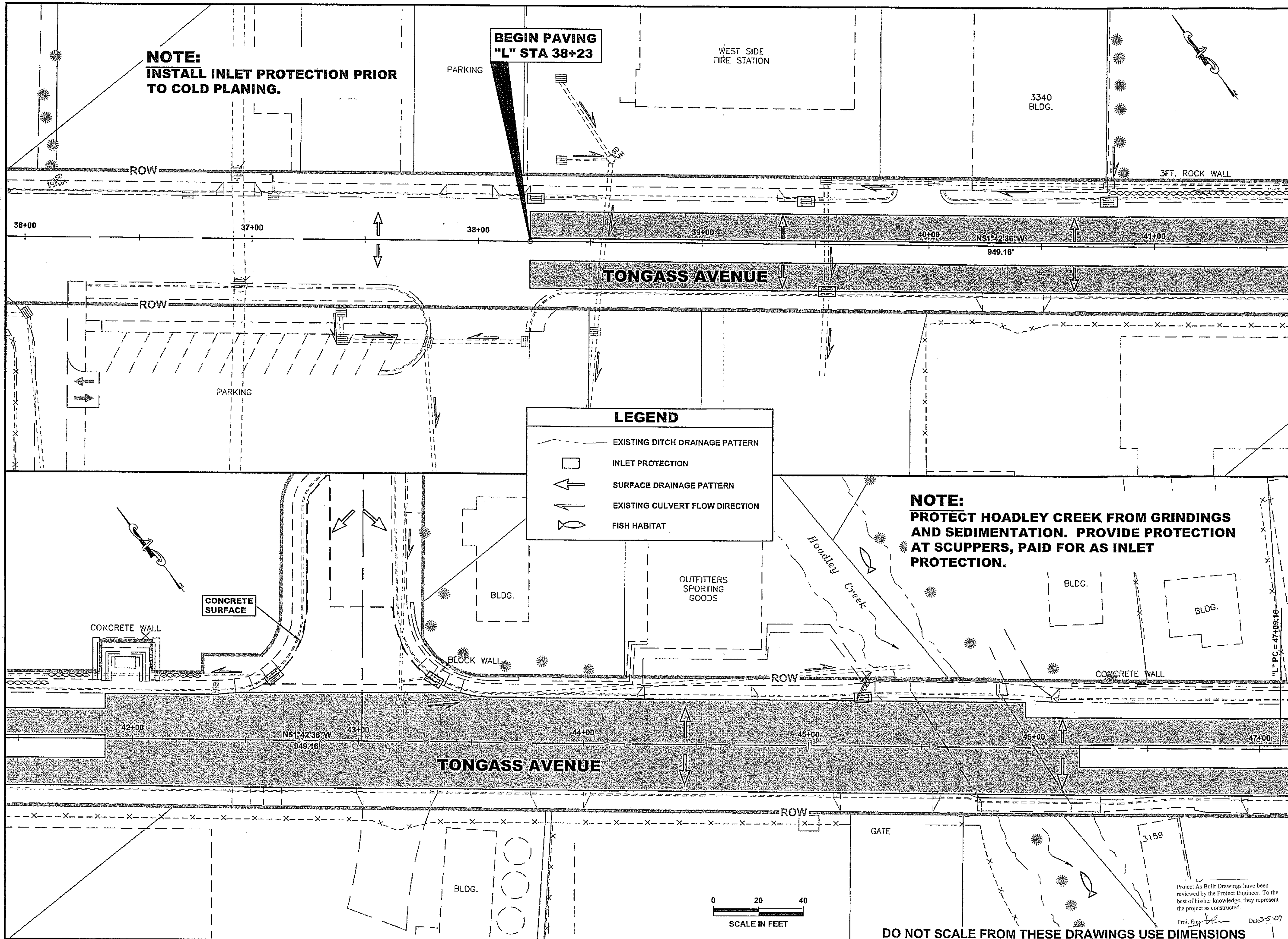
N.T.S.

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng. *[Signature]* Date 3-6-07

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. HOWARD 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION KTN - FFYO8 AREAWIDE PAVING PROJECT # 67791 LOOP DETECTOR INSTALLATION PLAN	
DESIGNED BY: C. MOREHOUSE DRAWN BY: R. SNYDER PATH: Q:\KTN\67791\PLANSET\B_TRAFFIC-TONGASS.DWG TAB: B8		RKSNYDER PROJECT DESIGNATION AC-NH-0003(131) ~ 67791 YEAR 2008 SHEET NO. B8 TOTAL SHEETS 23	



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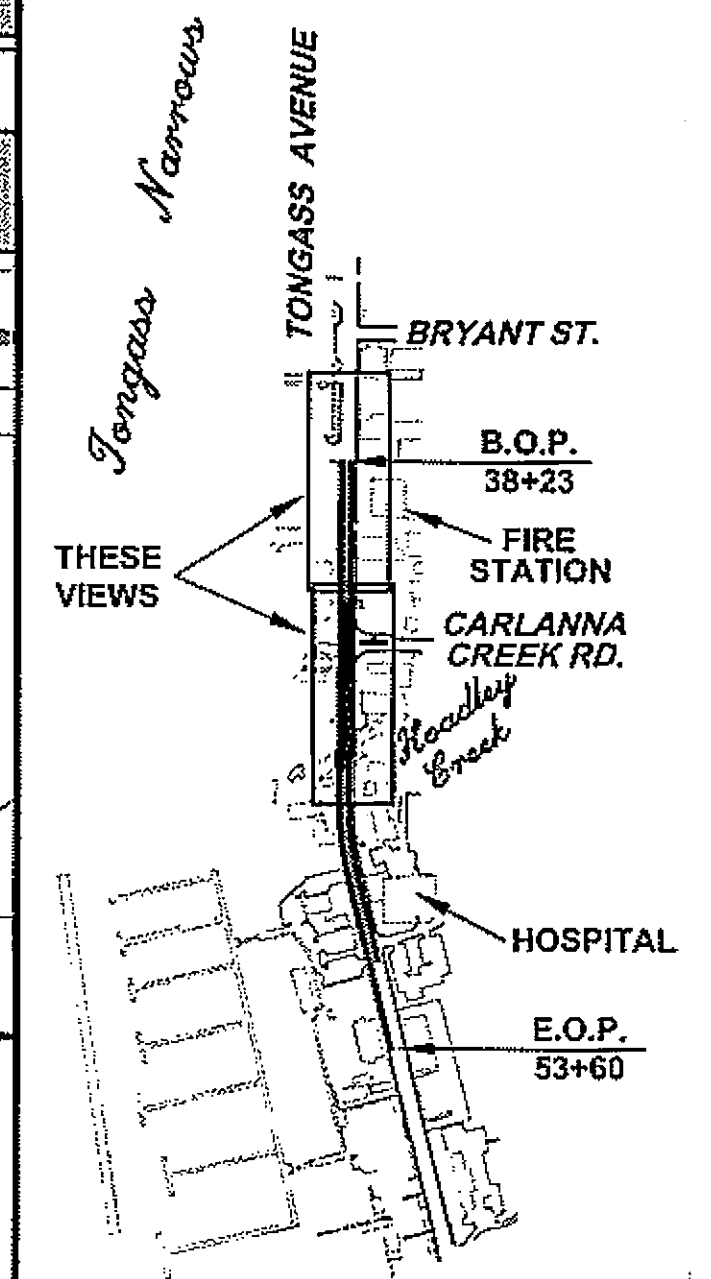
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ADDENDUM NUMBER

ATTACHMENT NUMBER

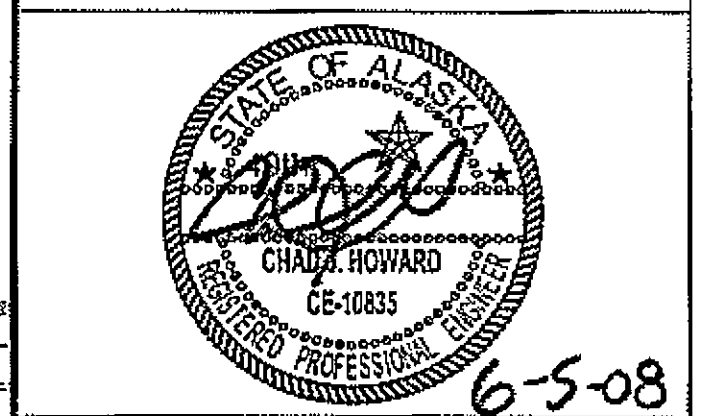
RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: C. HOWARD



DESIGNED BY: J. WEAVER

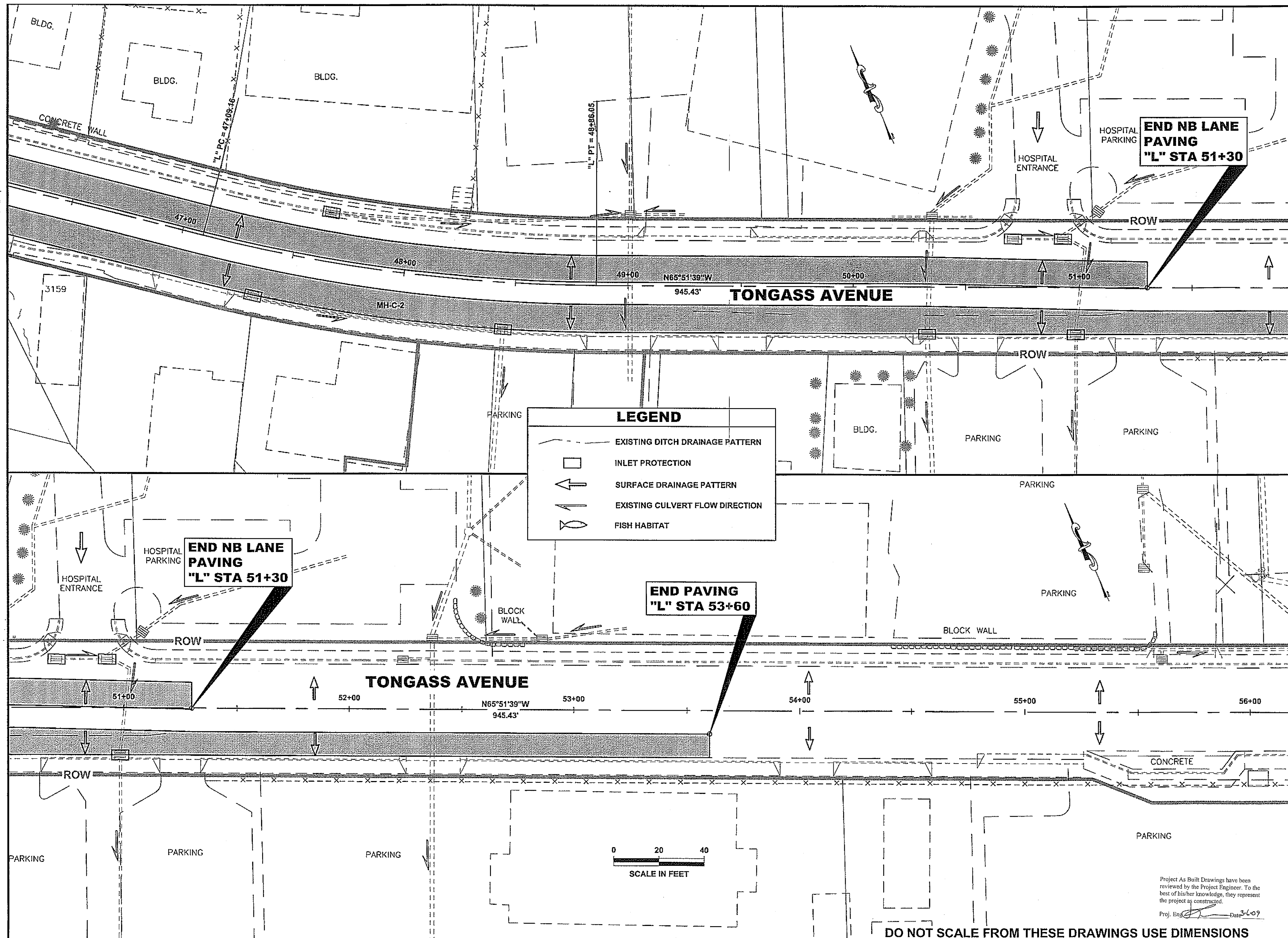
DRAWN BY: R. SNYDER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION-SOUTHEAST REGION
KTN - FFY08
AREAWIDE PAVING
PROJECT NO. 67791

TONGASS AVENUE ESCP

PROJECT DESIGNATION
AC-NH-0003(131) ~ 67791

STATE	YEAR
ALASKA	2008
SHEET NUMBER	TOTAL SHEETS
B9	23



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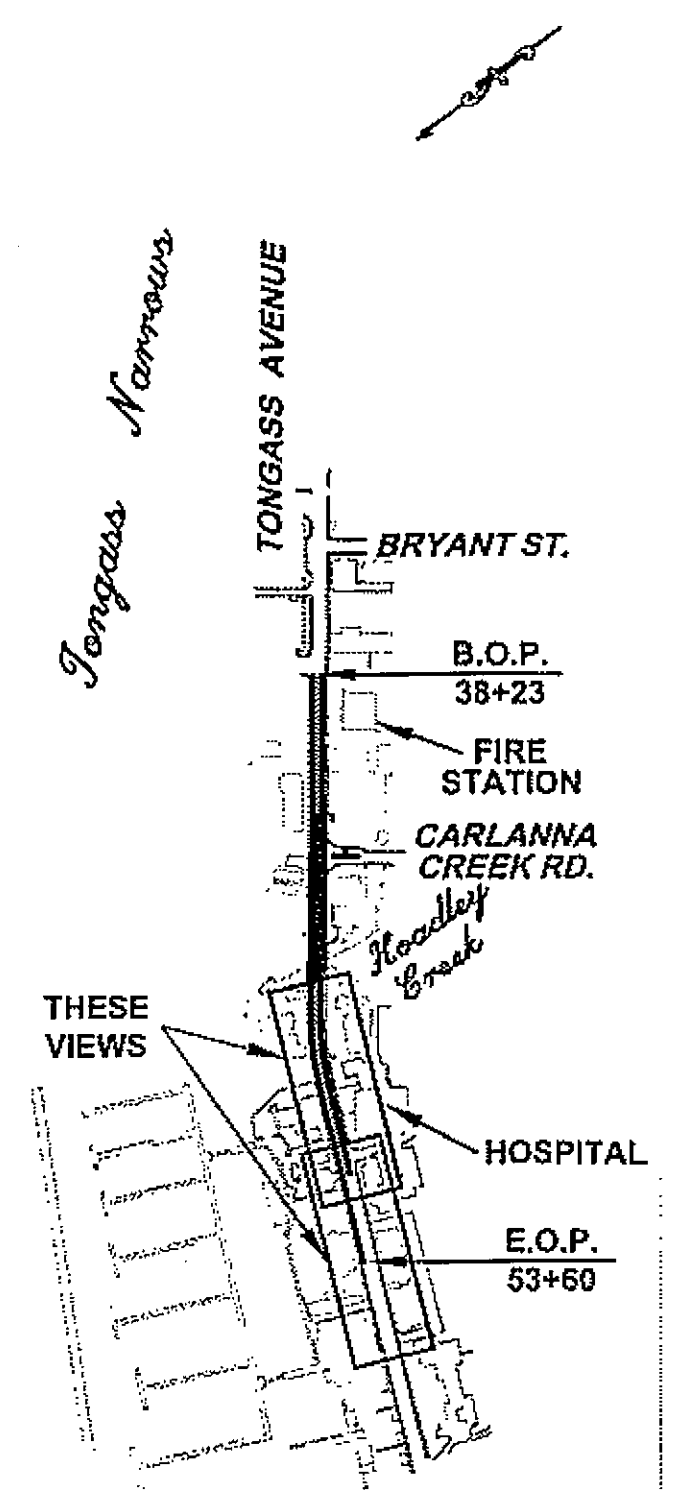
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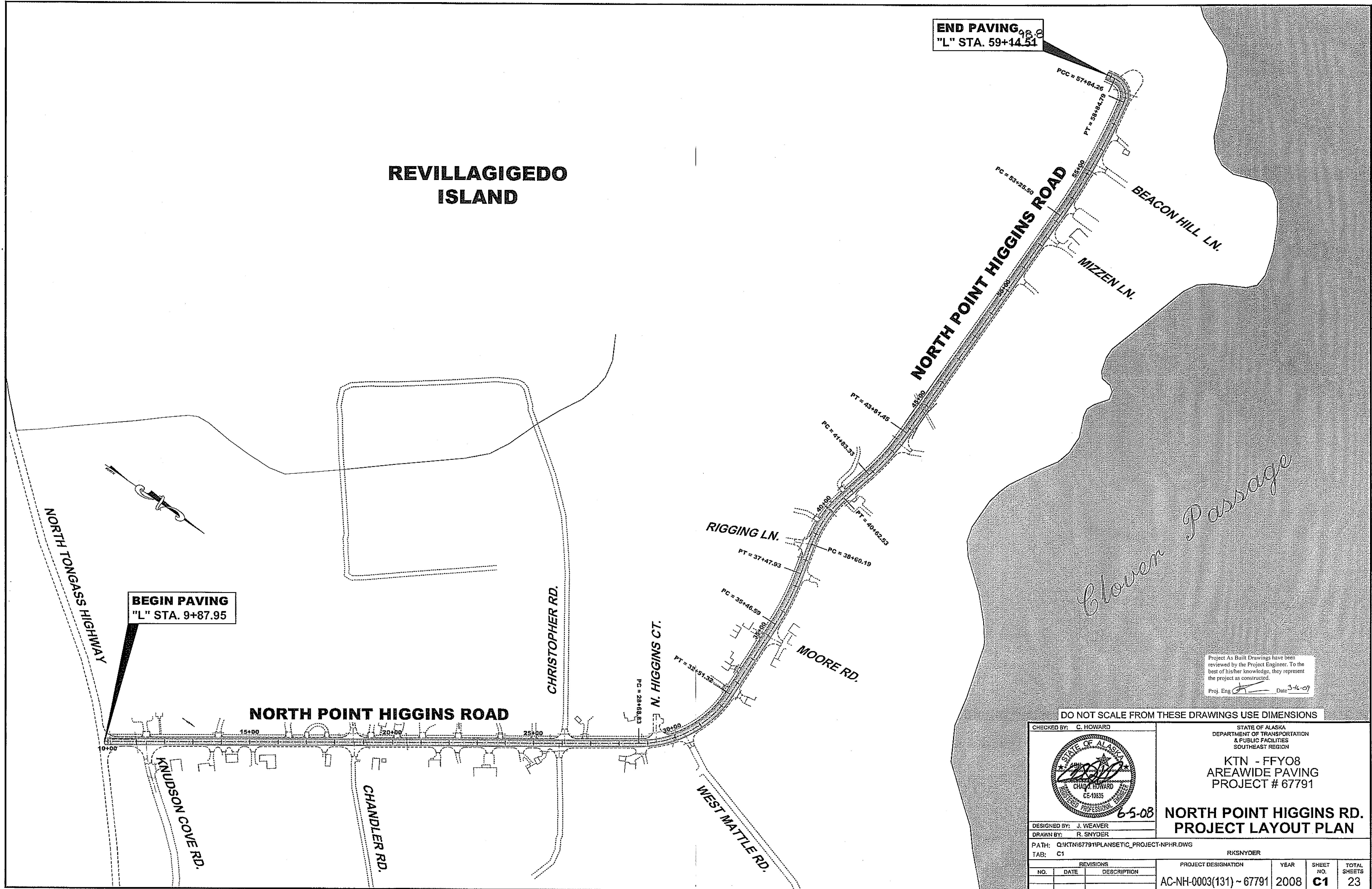
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ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

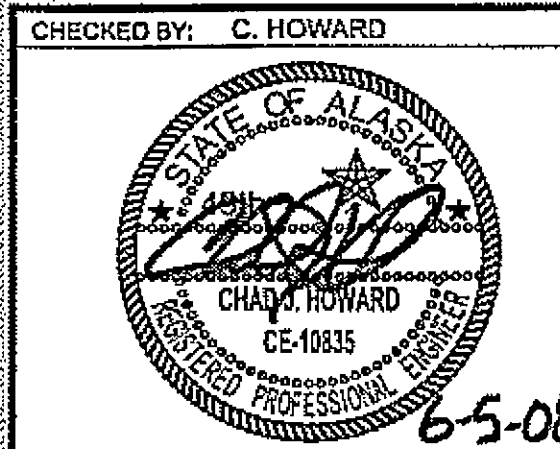




Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng. *[Signature]* Date 3-16-09

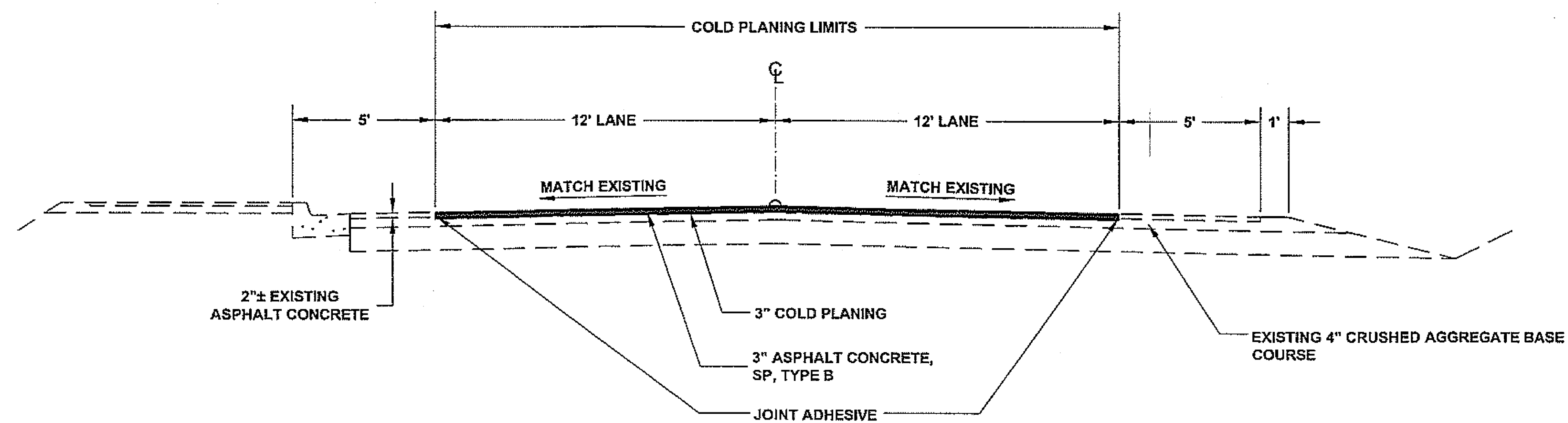
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

KTN - FFYO8
AREAWIDE PAVING
PROJECT # 67791

CHECKED BY: C. HOWARD DESIGNED BY: J. WEAVER DRAWN BY: R. SNYDER PATH: Q:\KTM67791\PLANSET\PROJECT-NPHR.DWG TAB: C1			RKSNYDER PROJECT DESIGNATION AC-NH-0003(131) ~ 67791			YEAR 2008	SHEET NO. C1	TOTAL SHEETS 23
REVISIONS								
NO.	DATE	DESCRIPTION						



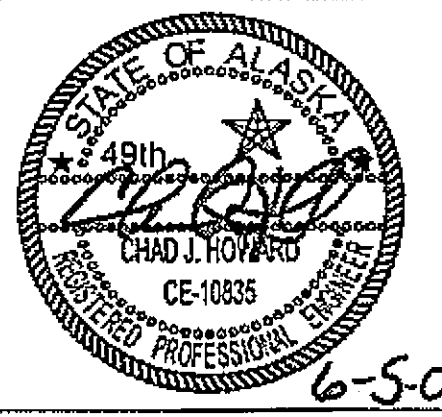
**TYPICAL SECTION
NORTH POINT HIGGINS ROAD**

GENERAL NOTES

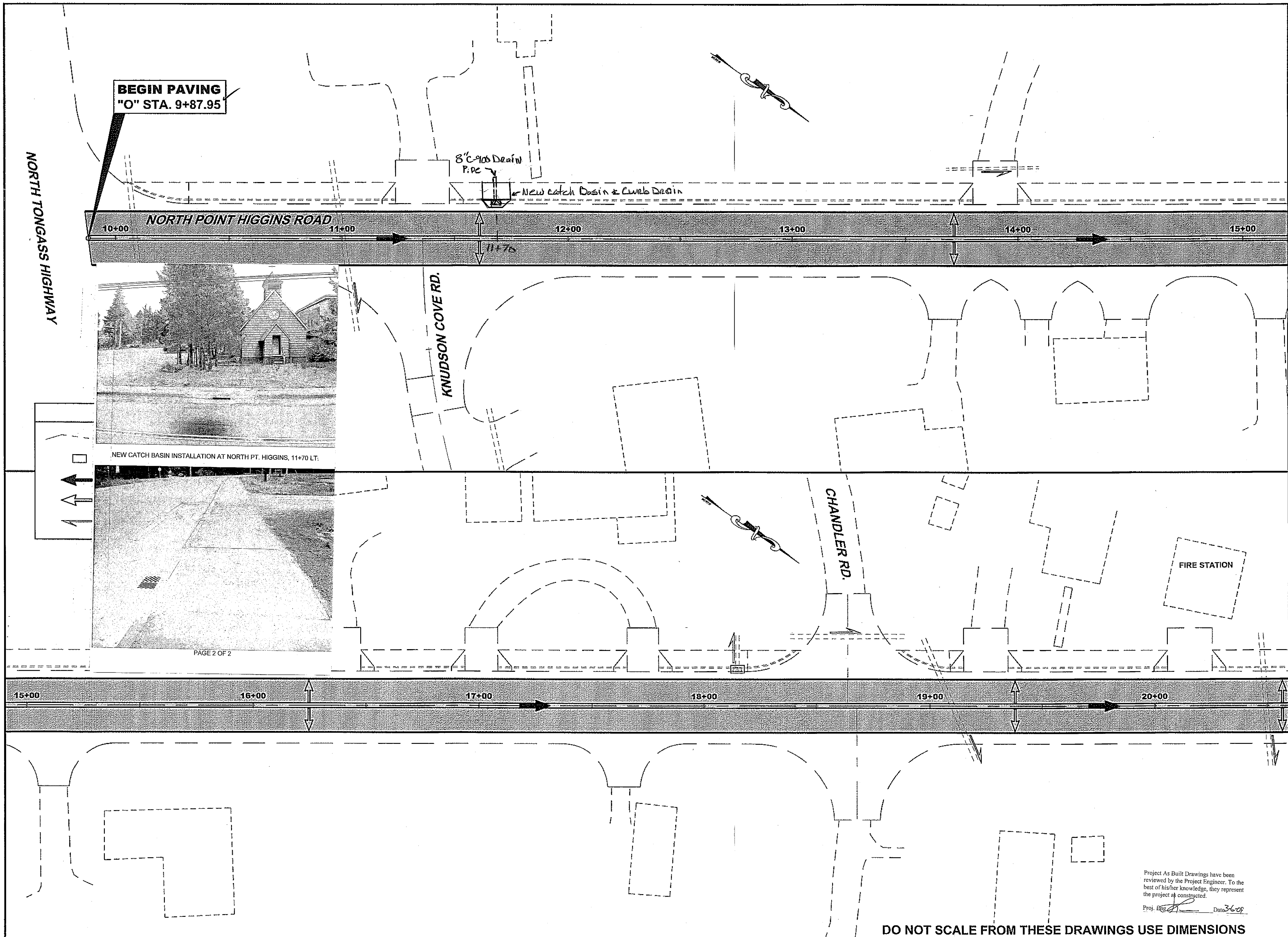
1. INFORMATION CONTAINED IN THESE DOCUMENTS HAS BEEN COMPILED FROM AS-BUILT DRAWINGS AND AERIAL PHOTOGRAPHY.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SET CONTROL FOR THE COLD PLANING, PAVING, TRAFFIC MARKINGS AND OTHER ITEMS AS NECESSARY TO COMPLETE THE WORK. SETTING CONTROL POINTS FOR REINSTALLING TRAFFIC MARKINGS SHALL BE COORDINATED WITH THE ENGINEER.
3. COLD PLANING WIDTHS AND DEPTHS MAY VARY AND ARE SUBJECT TO MINOR REVISIONS AS DETERMINED BY THE ENGINEER.
4. PRIOR TO PLANING OPERATIONS, INLETS, CATCH BASINS, AND DRAINS SHALL BE SUFFICIENTLY BARRICADED SO AS TO PREVENT DEBRIS FROM ENTERING THE DRAINAGE SYSTEM, OR STREAMS.
5. COLD PLANING SHALL REMOVE THE EXISTING 2" ASPHALT PAVEMENT AND 1" OF UNDERLYING CRUSHED AGGREGATE BASE COURSE IN THE TRAVEL LANES. THE EXISTING SHOULDERS ARE TO REMAIN.
6. COLD PLANING SHALL LEAVE A CLEAN EDGE AT THE SHOULDERS.
7. THE PAVEMENT/BASE COURSE MATERIAL REMOVED ON THE PROJECT SHALL BE STOCKPILED AT MILE 12.7 NORTH TONGASS.
8. SEE SUBSECTION 401-3.14 OF THE SPECIAL PROVISIONS REGARDING JOINTS.

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.
Proj. Eng. *[Signature]* Date *3-16-09*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. HOWARD  DESIGNED BY: J. WEAVER DRAWN BY: R. SNYDER PATH: Q:\KTM67791\PLANSET\TYPICAL\NPHR.DWG TAB: C2		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION KTN - FFYO8 AREA WIDE PAVING PROJECT # 67791 NORTH POINT HIGGINS RD. TYPICAL SECTION									
REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	DESCRIPTION				PROJECT DESIGNATION AC-NH-0003(131) ~ 67791	YEAR 2008	SHEET NO. C2	TOTAL SHEETS 23
NO.	DATE	DESCRIPTION									

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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PLAN LEGEND

CHECKED BY: C. HOWARD

DESIGNED BY: J. WEAVER

DRAWN BY: R. SNYDER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION-SOUTHEAST REGION
KTN - PPY08
AREAWIDE PAVING
PROJECT NO. 67791
**NORTH POINT
HIGGINS ROAD
PLAN & ESCP**

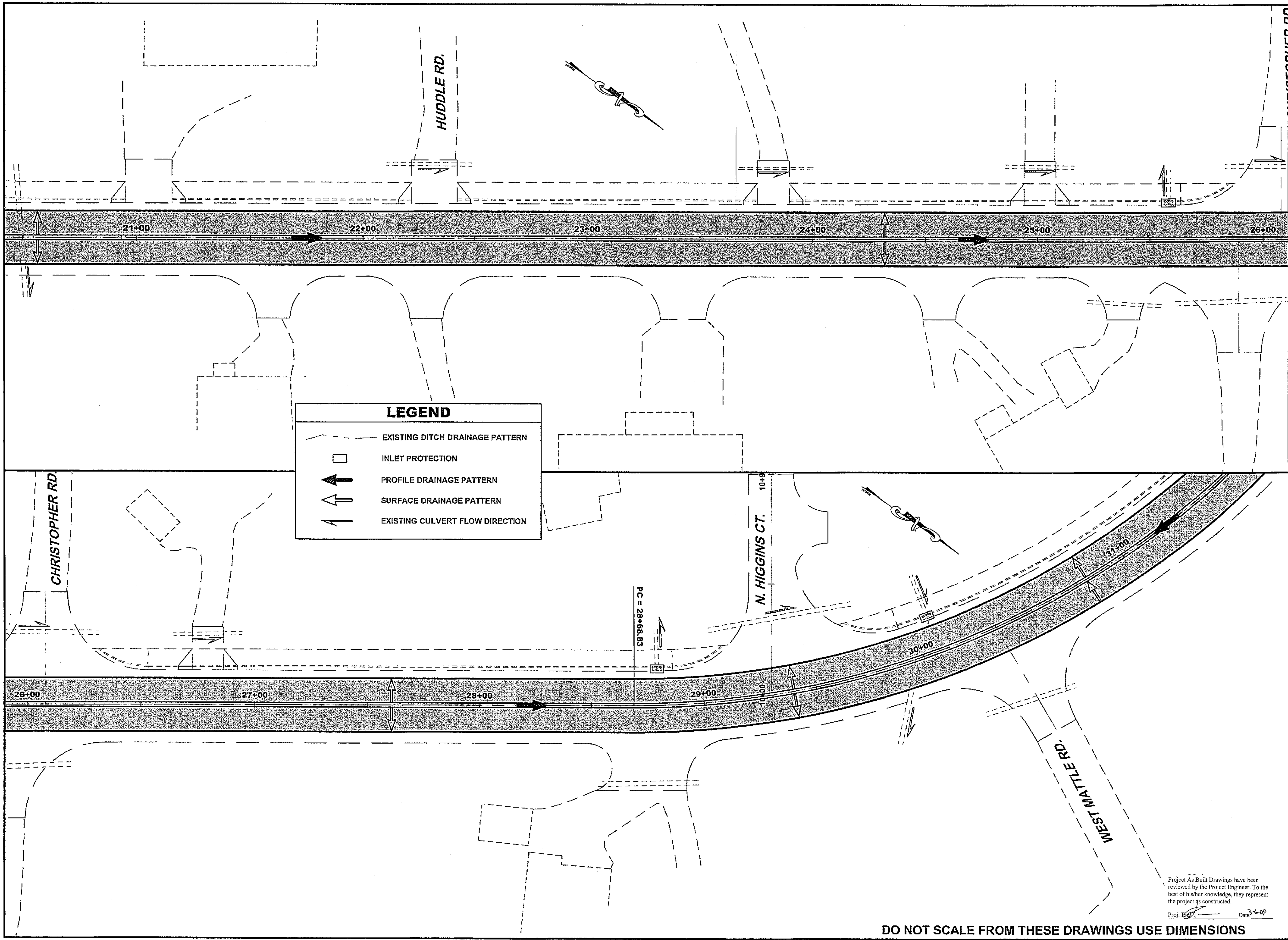
PROJECT DESIGNATION

AC-NH-0003(131) ~ 67791

STATE	YEAR
ALASKA	2008
SHEET NUMBER	TOTAL SHEETS
C3	23

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.
Proj. Eng. Date 3-6-09

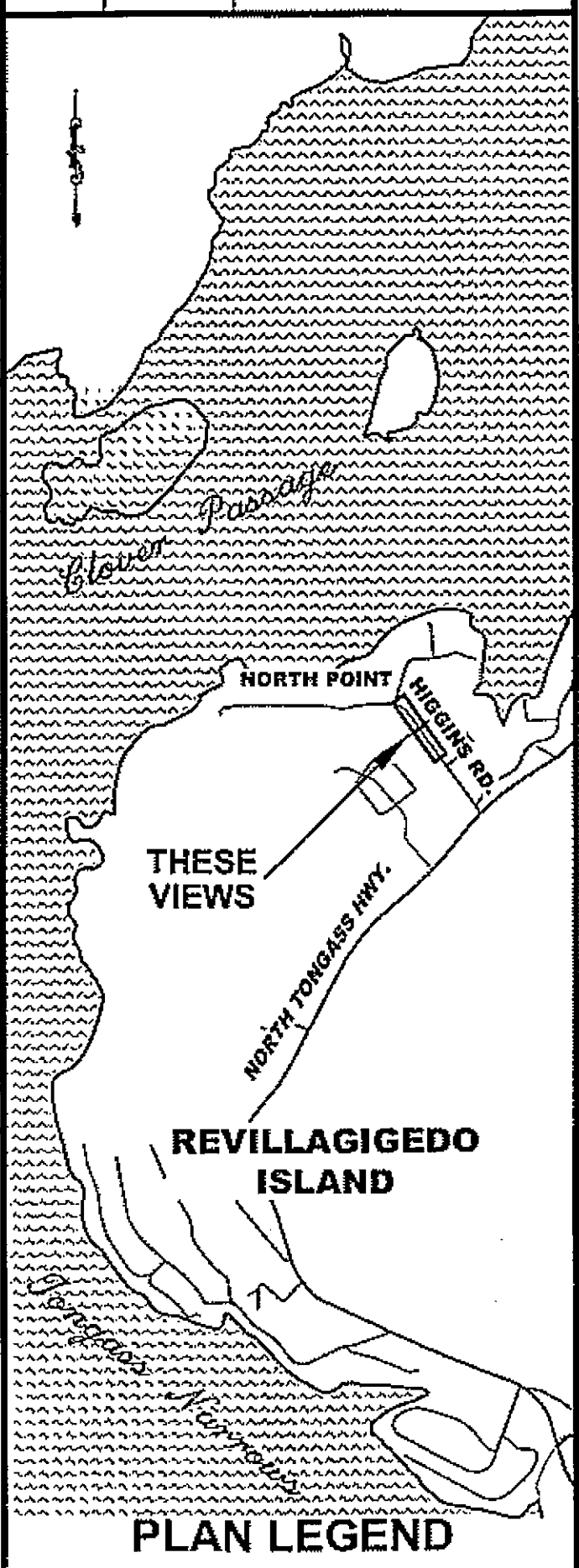
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TAB: C4 RKSNYDER

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



CHECKED BY: C. HOWARD

6-5-08

DESIGNED BY: J. WEAVER
DRAWN BY: R. SNYDER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION-SOUTHEAST REGION
KTN - FFY08
AREAWIDE PAVING
PROJECT NO. 67791
**NORTH POINT
HIGGINS ROAD
PLAN & ESCP**

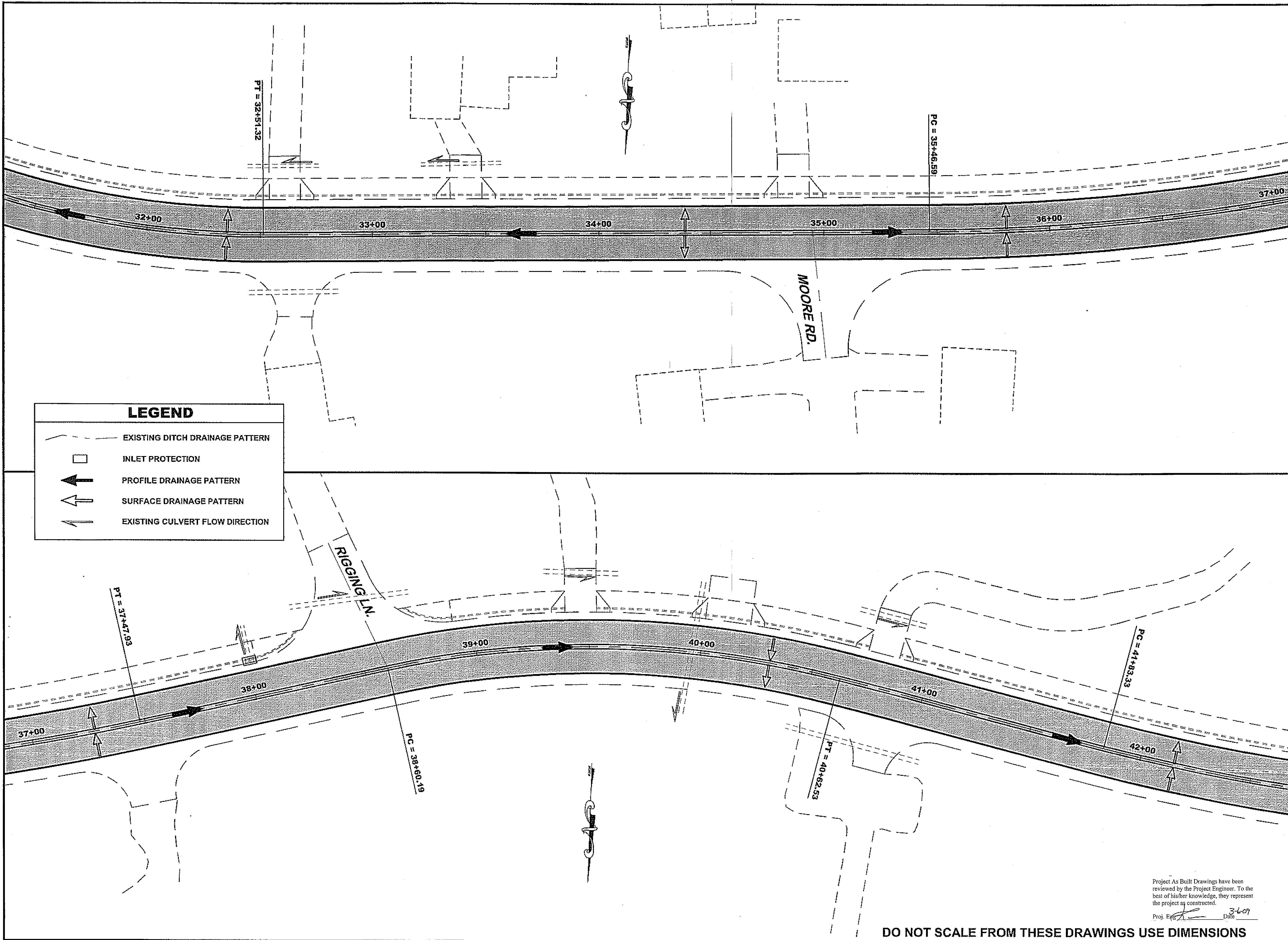
PROJECT DESIGNATION
AC-NH-0003(131) ~ 67791

STATE	YEAR
ALASKA	2008
SHEET NUMBER	TOTAL SHEETS
C4	23

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng. Date 3-6-09

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



PATH: Q:\KTN\67791\PLANSET\IC_PLAN-NPHR.DWG
 TAB: CS RKSNYDER
 ADDENDUM NUMBER
 ATTACHMENT NUMBER
 RECORD OF REVISIONS
 No. DATE DESCRIPTION

THESE VIEWS
 NORTH POINT
 HIGGINS RD.
 NORTH TONGASS HWY.
 REVILLAGIGEDO ISLAND
PLAN LEGEND

CHECKED BY: C. HOWARD

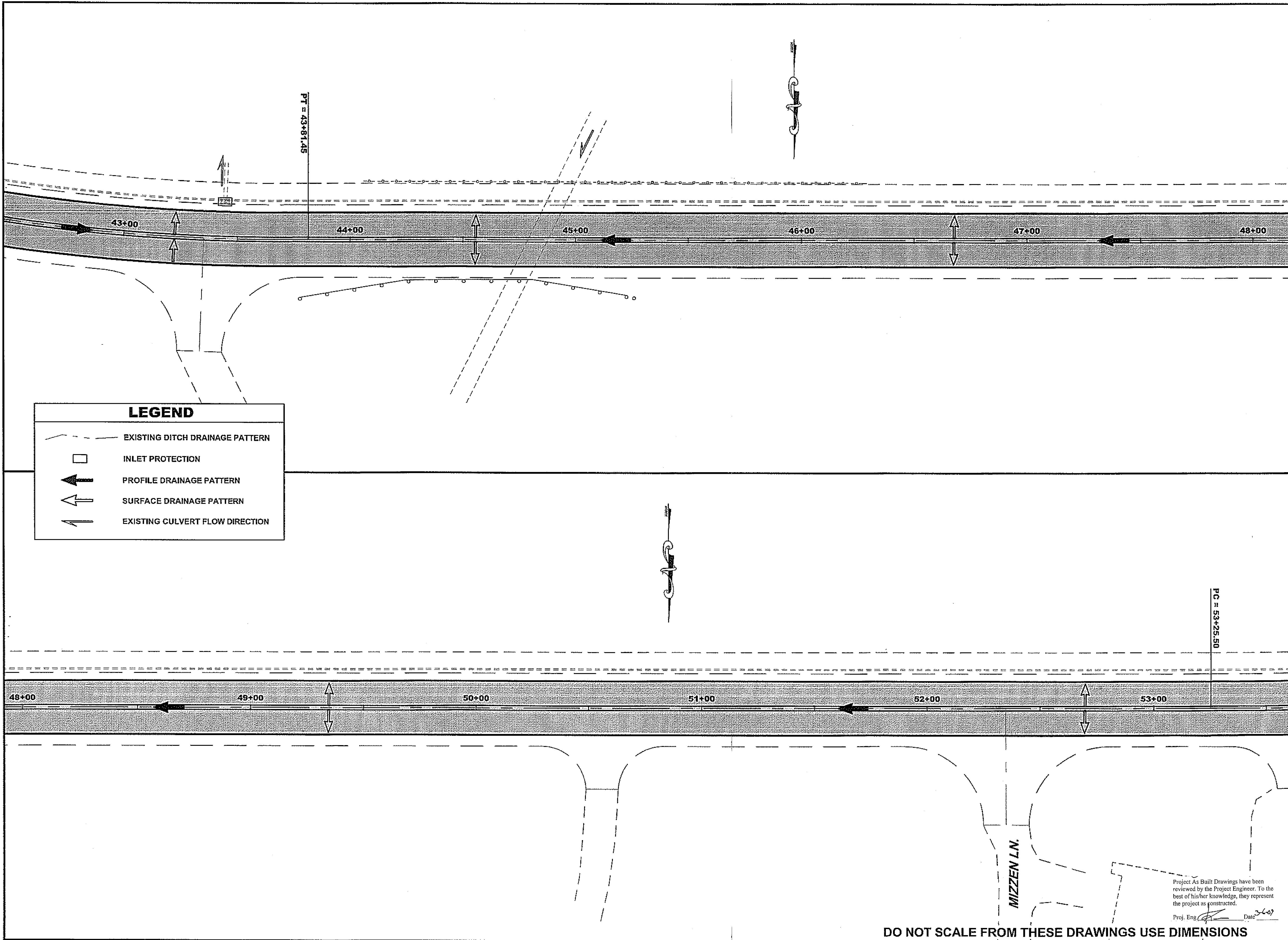
DESIGNED BY: J. WEAVER
 DRAWN BY: R. SNYDER

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 DESIGN & ENGINEERING SERVICES
 DIVISION-SOUTHEAST REGION
 KTN - FFY08
 AREAWIDE PAVING
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**NORTH POINT
 HIGGINS ROAD
 PLAN & ESCP**

PROJECT DESIGNATION
AC-NH-0003(131) ~ 67791

STATE	YEAR
ALASKA	2008
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C5	23

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.
 Proj. Eng. *[Signature]* Date *3-6-09*



LEGEND

- EXISTING DITCH DRAINAGE PATTERN
- INLET PROTECTION
- PROFILE DRAINAGE PATTERN
- SURFACE DRAINAGE PATTERN
- EXISTING CULVERT FLOW DIRECTION

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TAB: C6 RKSNYDER

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

THESE VIEWS

REVILLAGIGEDO ISLAND

PLAN LEGEND

CHECKED BY: C. HOWARD

DESIGNED BY: J. WEAVER

DRAWN BY: R. SNYDER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION-SOUTHEAST REGION
KTN - FFY08
AREAWIDE PAVING
PROJECT NO. 67791
**NORTH POINT
HIGGINS ROAD
PLAN & ESCP**

PROJECT DESIGNATION
AC-NH-0003(131) ~ 67791

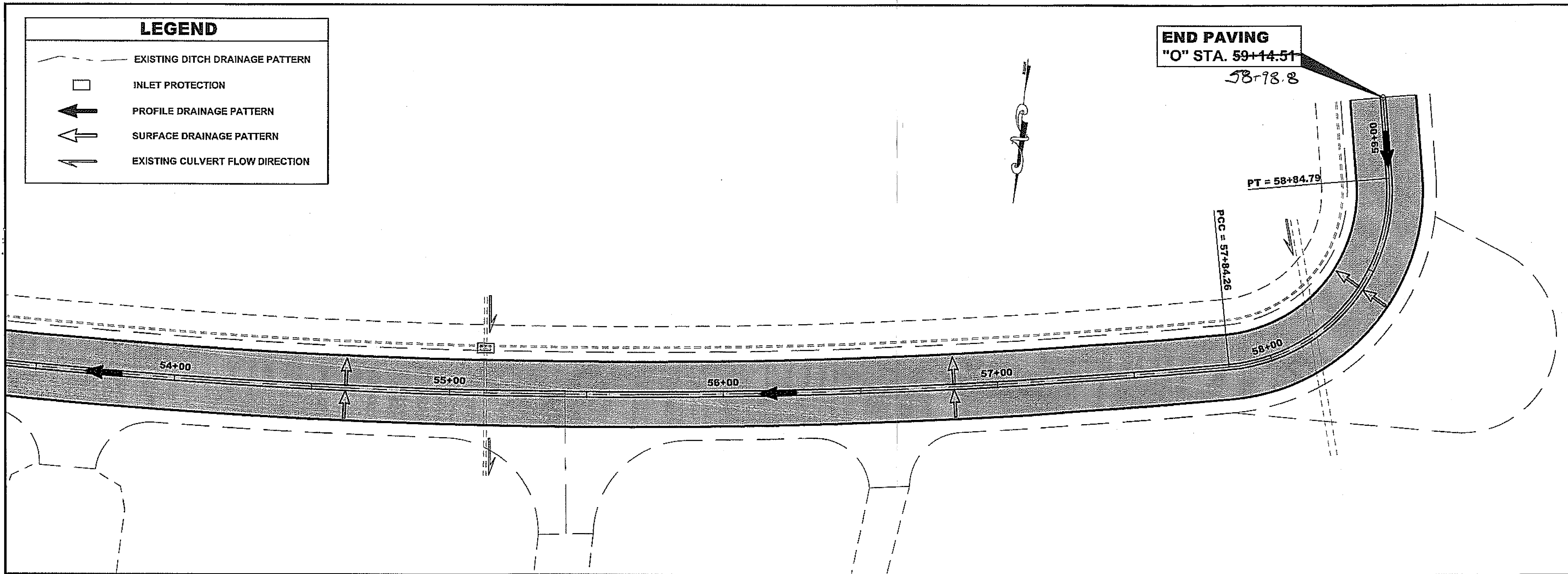
STATE	YEAR
ALASKA	2008

SHEET NUMBER	TOTAL SHEETS
C6	23

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng. *[Signature]* Date *2-6-07*

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TAB: C7 RKSNYDER

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PLAN LEGEND

CHECKED BY: C. HOWARD

6-5-08

DESIGNED BY: J. WEAVER

DRAWN BY: R. SNYDER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION-SOUTHEAST REGION
KTN - FFY08
AREAWIDE PAVING
PROJECT NO. 67791
**NORTH POINT
HIGGINS ROAD
ESCP**

PROJECT DESIGNATION
AC-NH-0003(131) ~ 67791

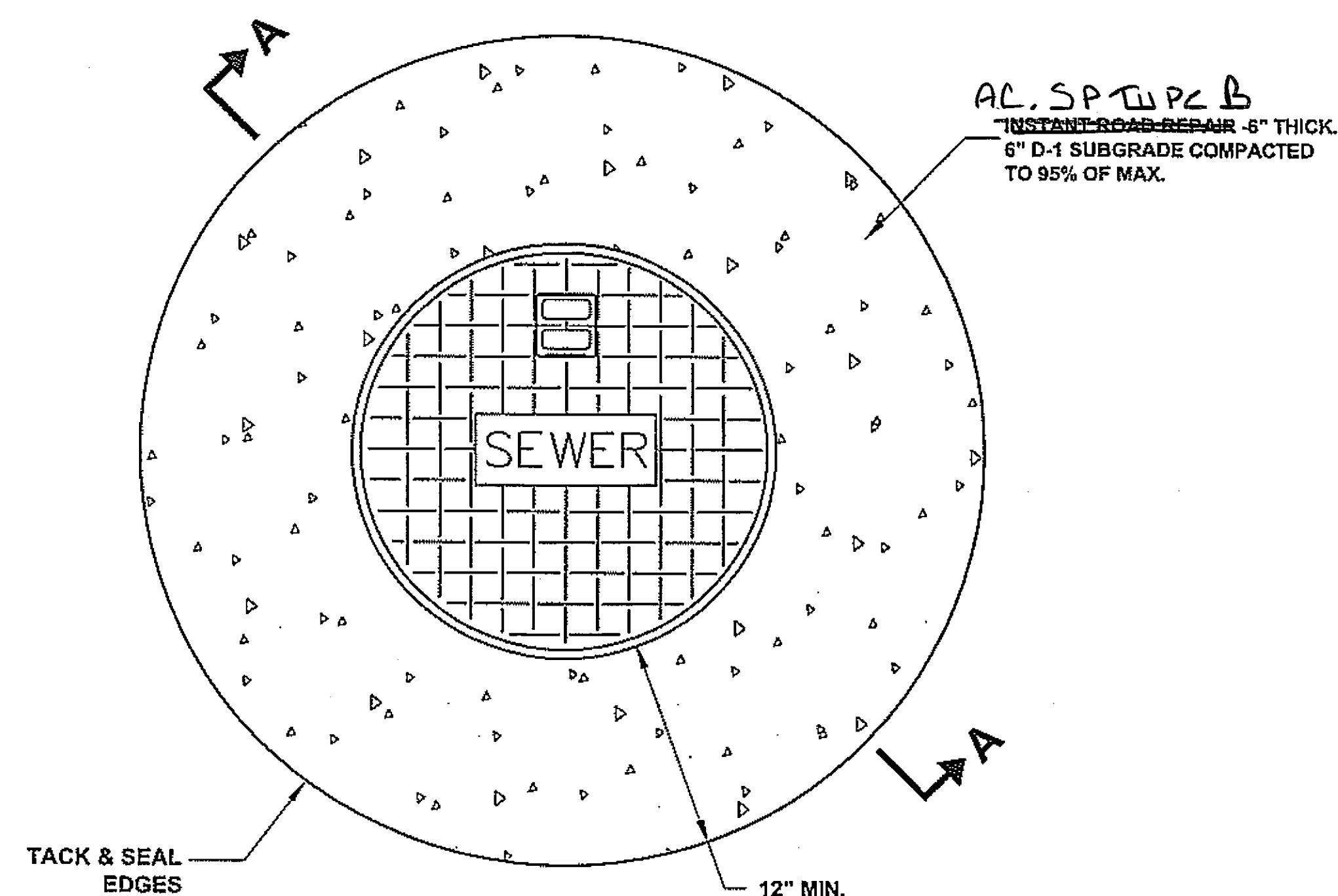
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ALASKA	2008

SHEET NUMBER	TOTAL SHEETS
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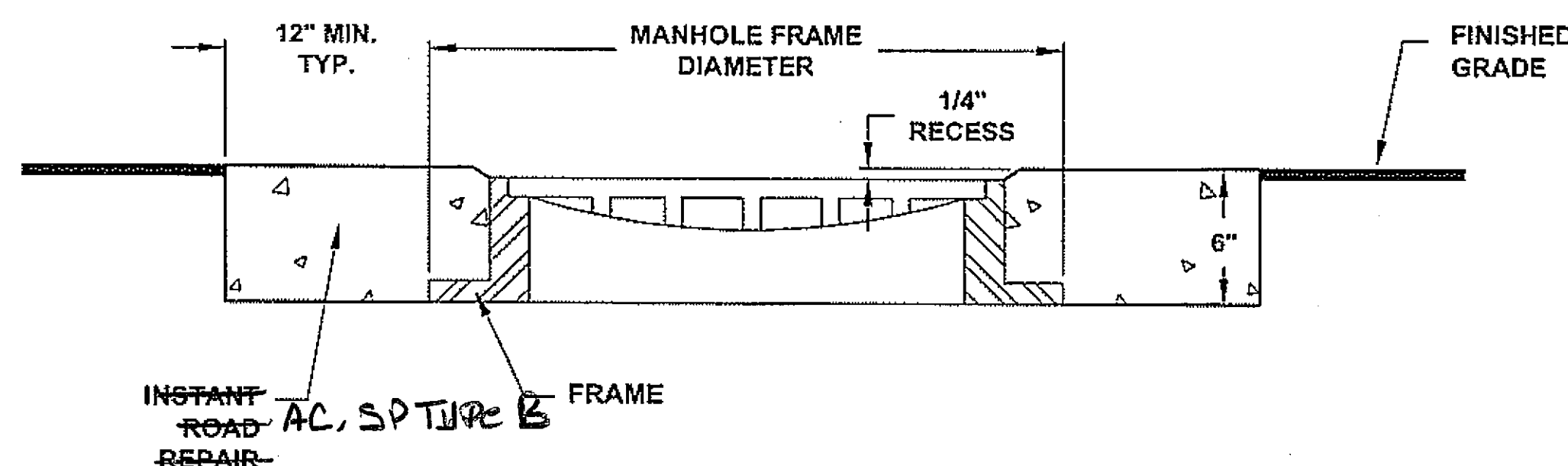
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Proj. Eng. Date 3-6-09

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PLAN VIEW



SECTION A-A

MANHOLE COLLAR DETAIL

N.T.S.

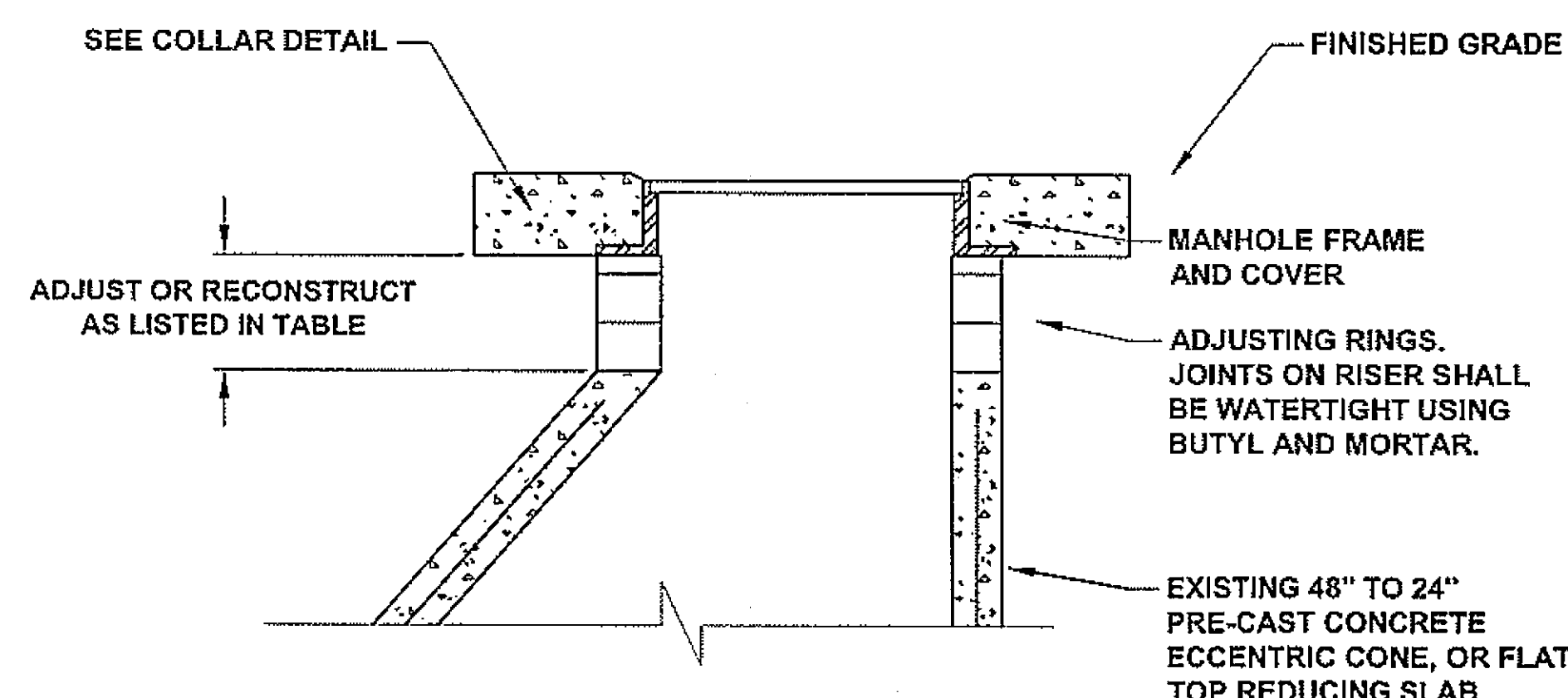
MANHOLE COLLAR NOTES:

THE FOLLOWING METHOD IS RECOMMENDED TO PREPARE FOR CONSTRUCTING THE MANHOLE COLLARS USING INSTANT ROAD REPAIR.

1. MARK CENTER OF MANHOLE FRAME.
2. IMMEDIATELY BEHIND THE SCREED AND PRIOR TO COMPACTION, CENTER A SONOTUBE AND SET INTO THE HOT ASPHALT MAT TO ACT AS A BOND BREAK. THE SONOTUBE DIAMETER MATCHES THE COLLAR DIAMETER AND EXTENDS THROUGH THE ASPHALT MAT.
3. DURING COMPACTION, THE ROLLER "PRESSES" THE SONOTUBE FULL DEPTH INTO THE NEW ASPHALT.
4. THE ASPHALT INSIDE THE SONOTUBE CAN BE REMOVED.

MANHOLE NOTES:

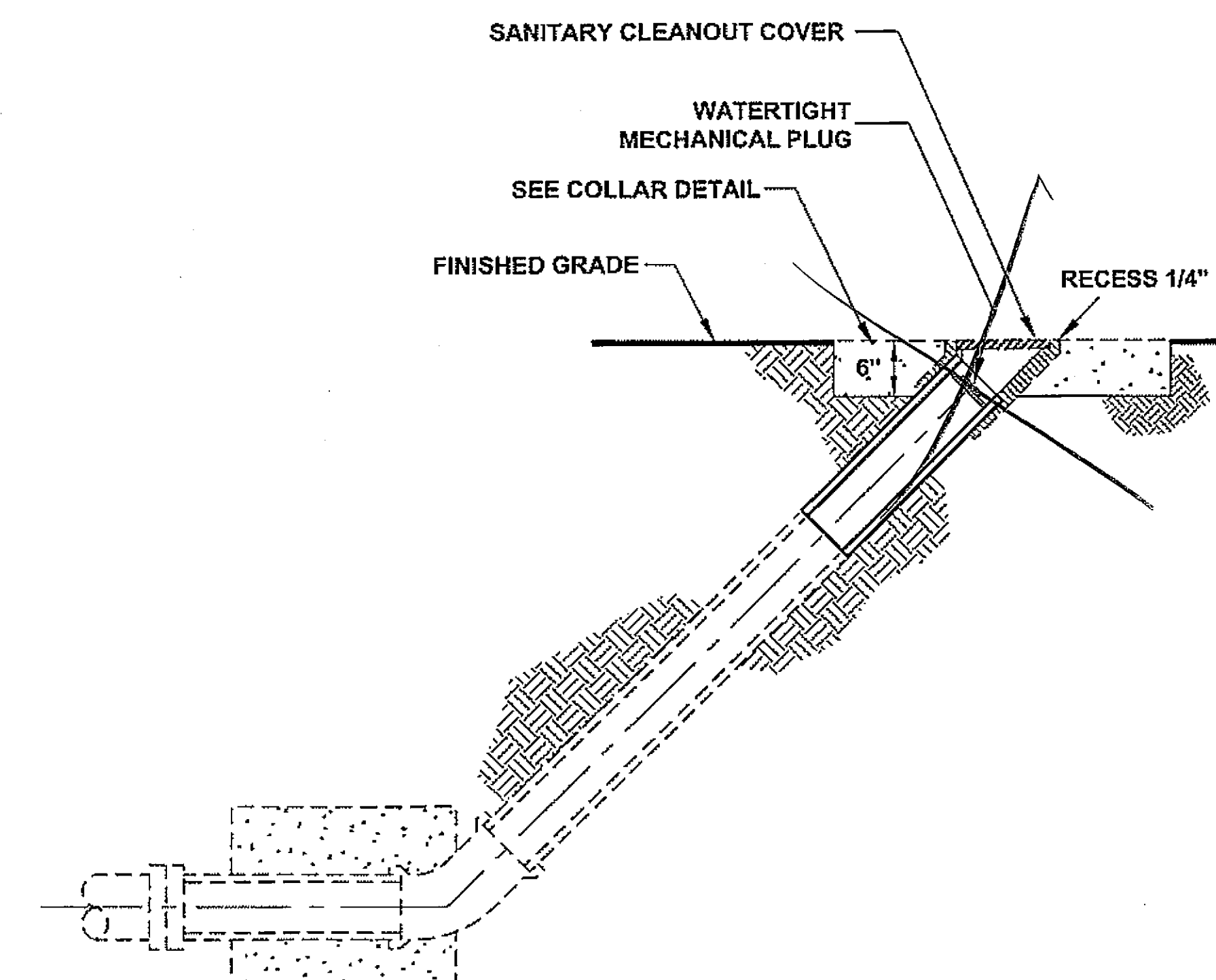
1. RECONSTRUCT OF EXISTING SSMH CONSISTS OF REPLACING EXISTING BRICK RISERS (14"-18") WITH NEW POLYETHYLENE ADJUSTING RINGS.
2. ADJUSTMENT OF EXISTING MANHOLE FRAME CONSISTS OF UTILIZING EXISTING CONCRETE ADJUSTING RINGS APPROVED FOR REUSE BY THE ENGINEER AND NEW POLYETHYLENE ADJUSTING RINGS AS NEEDED.
3. ALL SSMH FRAMES AND COVERS WILL BE FURNISHED BY THE CITY OF KETCHIKAN.
4. ADJUSTING RINGS SHALL BE INSTALLED IN A FULL MORTAR BED ONTO THE EXISTING PRECAST CONE, FLAT TOP MANHOLE SECTION, OR OTHER COMPETANT STRUCTURAL COMPONENT AS DETERMINED BY THE ENGINEER. CONTRACTOR SHALL THEN STACK ADJUSTING RISER RINGS UP TO BOTTOM ELEVATION OF NEW MANHOLE FRAME AND COVER. USE BUTYL ROPE BETWEEN POLYETHYLENE ADJUSTING RINGS AND MORTAR BETWEEN CONCRETE ADJUSTING RINGS.
5. ADJUSTING RINGS SHALL BE PROPERLY SIZED FOR THE EXISTING CONE OR FLAT TOP OPENING, AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
6. FRAME AND COVER SHALL BE ADJUSTED AS NECESSARY TO BE $\frac{1}{4}$ " BELOW THE SURFACE. CONTRACTOR SHALL USE VARYING THICKNESSES OF ADJUSTING RINGS (INCLUDING TAPERED RINGS) TO MATCH ROAD SLOPE.
7. INSTALLATION OF FRAME, COVER, AND ADJUSTMENT RINGS, ONTO THE EXISTING STRUCTURE SHALL BE WATER-TIGHT.



MANHOLE ADJUSTMENT / RECONSTRUCT DETAIL

N.T.S.

MANHOLE SUMMARY					
STATION	STRUCTURE TYPE	STRUCTURE LABEL	EXISTING RISER TYPE	FRAME/ COVER	REQUIRED ACTION
40+43 RT	SSMH	B2-2	CONCRETE	FURNISHED	ADJUST
42+92 RT	SSMH	B2-3	CONCRETE	FURNISHED	ADJUST
43+18 LT	SDMH	22A		USE EXISTING	ADJUST
45+25 RT	SSMH	B2-16	CONCRETE	FURNISHED	ADJUST
47+97 RT	SSMH	C-2	BRICK	FURNISHED	RECONSTRUCT
51+07 RT	SSMH	C1-1	BRICK	FURNISHED	RECONSTRUCT
51+23 RT	SSMH	C-1-1-16	CONCRETE	FURNISHED	ADJUST



SANITARY SEWER CLEANOUT DETAIL

N.T.S.

SANITARY SEWER CLEANOUT ADJUSTMENT				
STATION	STRUCTURE TYPE	STRUCTURE LABEL	REQUIRED ACTION	COMMENT
46+18, 18' RT	SS CLEANOUT	B2-00	ADJUST	EXISTING IS BURIED

SS CLEANOUT NOTES:

1. VERIFY LOCATION WITH THE CITY OF KETCHIKAN.
2. RAISE EXISTING BURIED SS CLEANOUT AND ADJUST AS DETAILED.
3. EXISTING SS PIPE IS 8" ASBESTOS CONCRETE.
4. SS CLEANOUT CONFIGURATION MAY DIFFER FROM TYPE DETAILED.

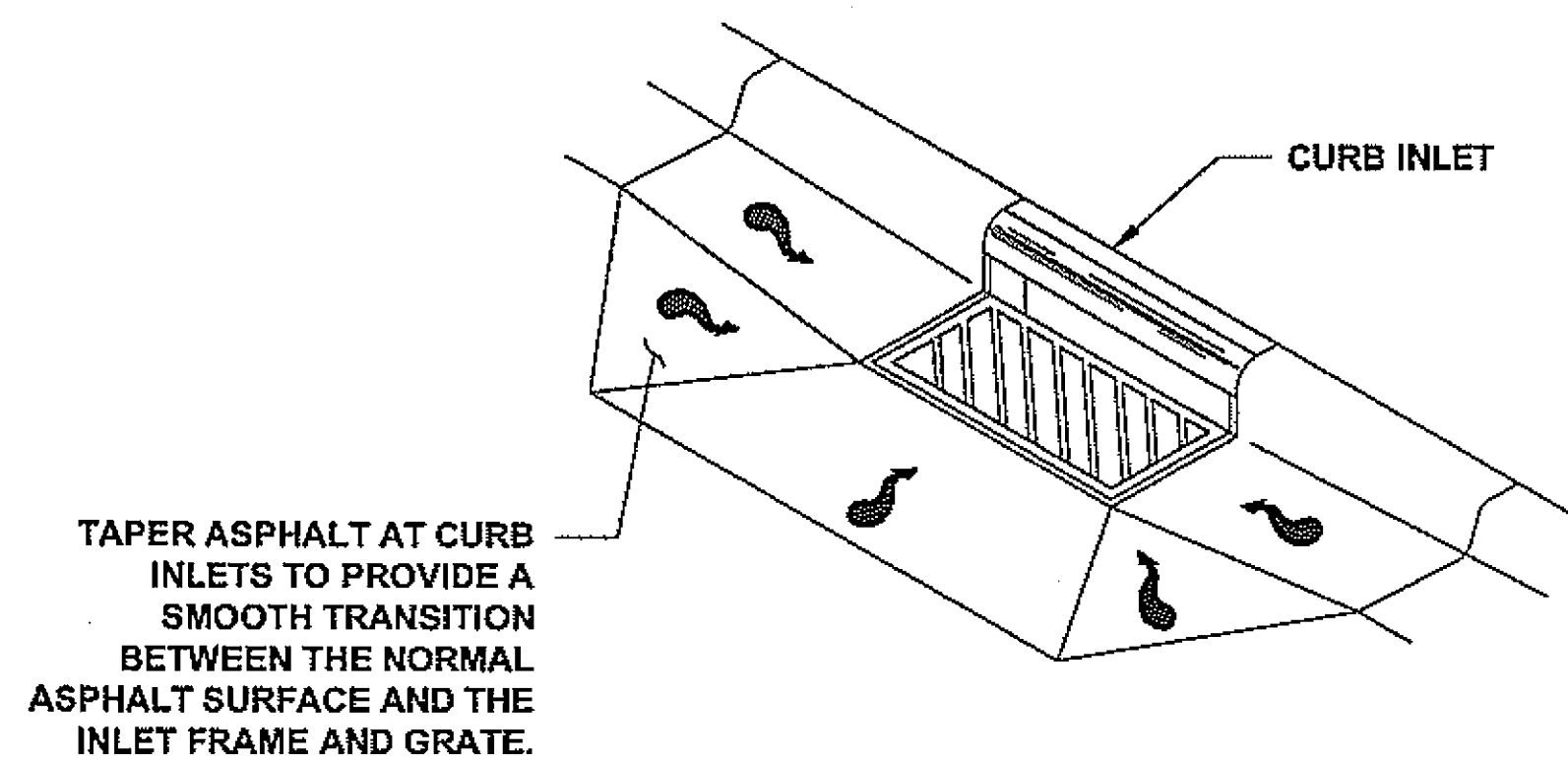
Deleted per City of KTN.

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

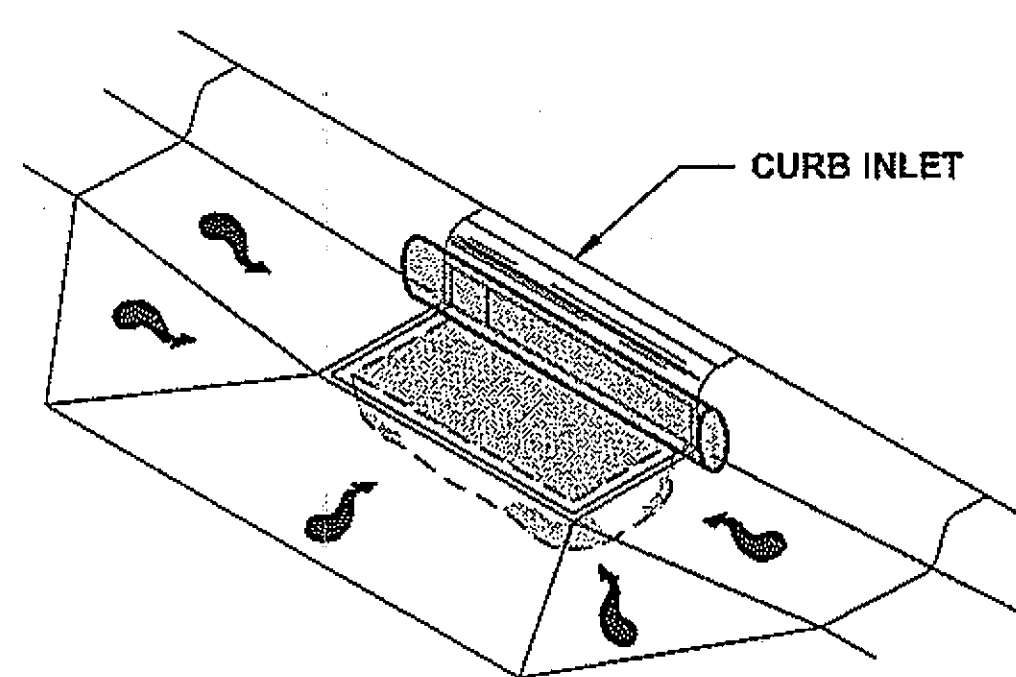
Proj. Eng. *[Signature]* Date *3-6-09*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. HOWARD 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION KTN - FFYO8 AREAWIDE PAVING PROJECT # 67791 MISCELLANEOUS DETAILS	
DESIGNED BY: J. WEAVER DRAWN BY: R. SNYDER PATH: Q:\KTN\67791\PLANSET\TD1_MISC DETS.DWG TAB: D1		RKSNYDER PROJECT DESIGNATION: AC-NH-0003(131) ~ 67791 YEAR: 2008 SHEET NO: D1 TOTAL SHEETS: 23	

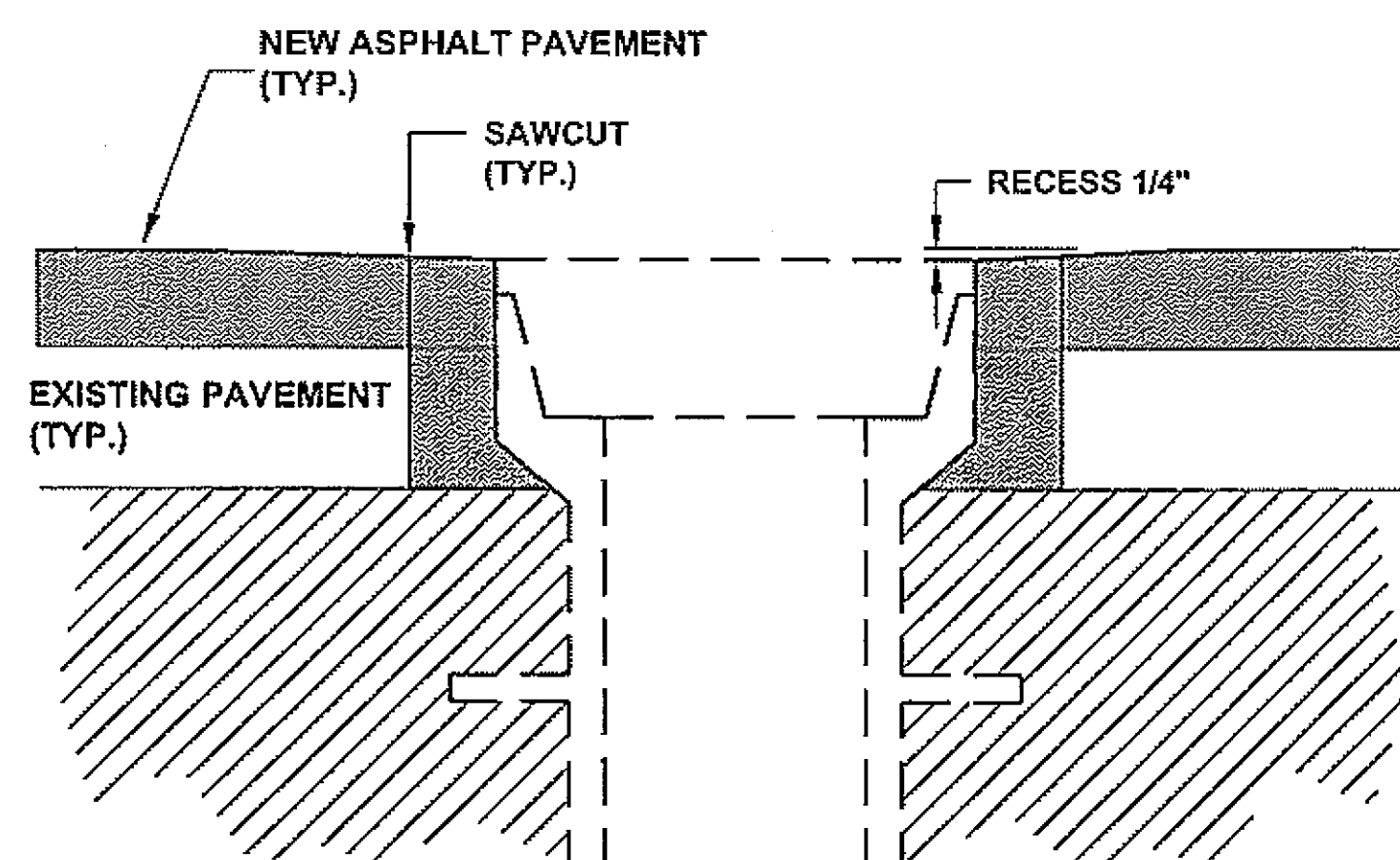


ASPHALT TAPER AT CURB INLETS
N.T.S.



CURB INLET PROTECTION DETAIL
N.T.S.

1. USE DANDY BAG BY DANDY PRODUCTS, INC OR APPROVED EQUAL.



VALVE BOX AND MONUMENT ADJUSTMENT DETAIL
N.T.S.

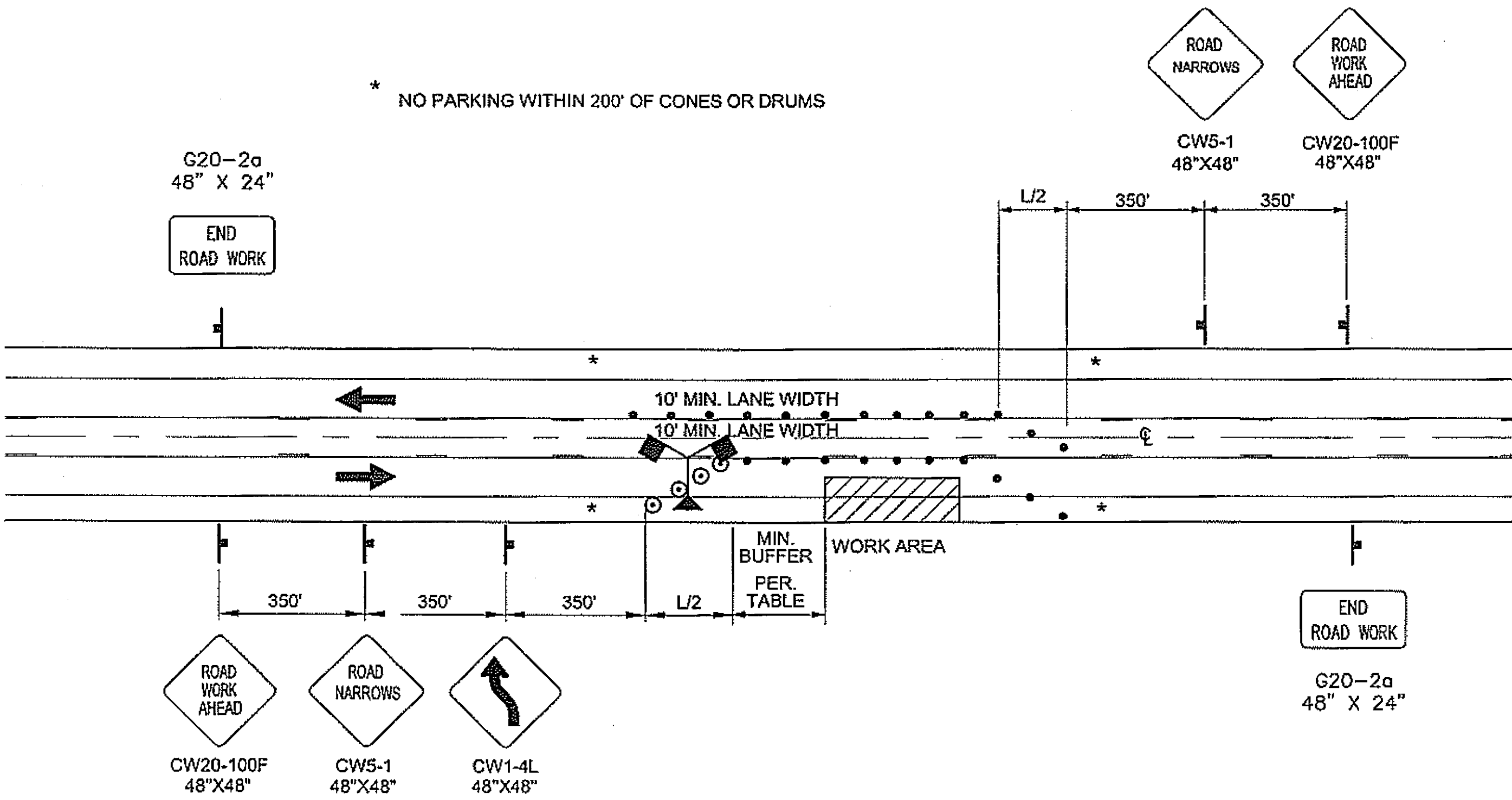
Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.
Proj. Eng. *[Signature]* Date 5-9-09

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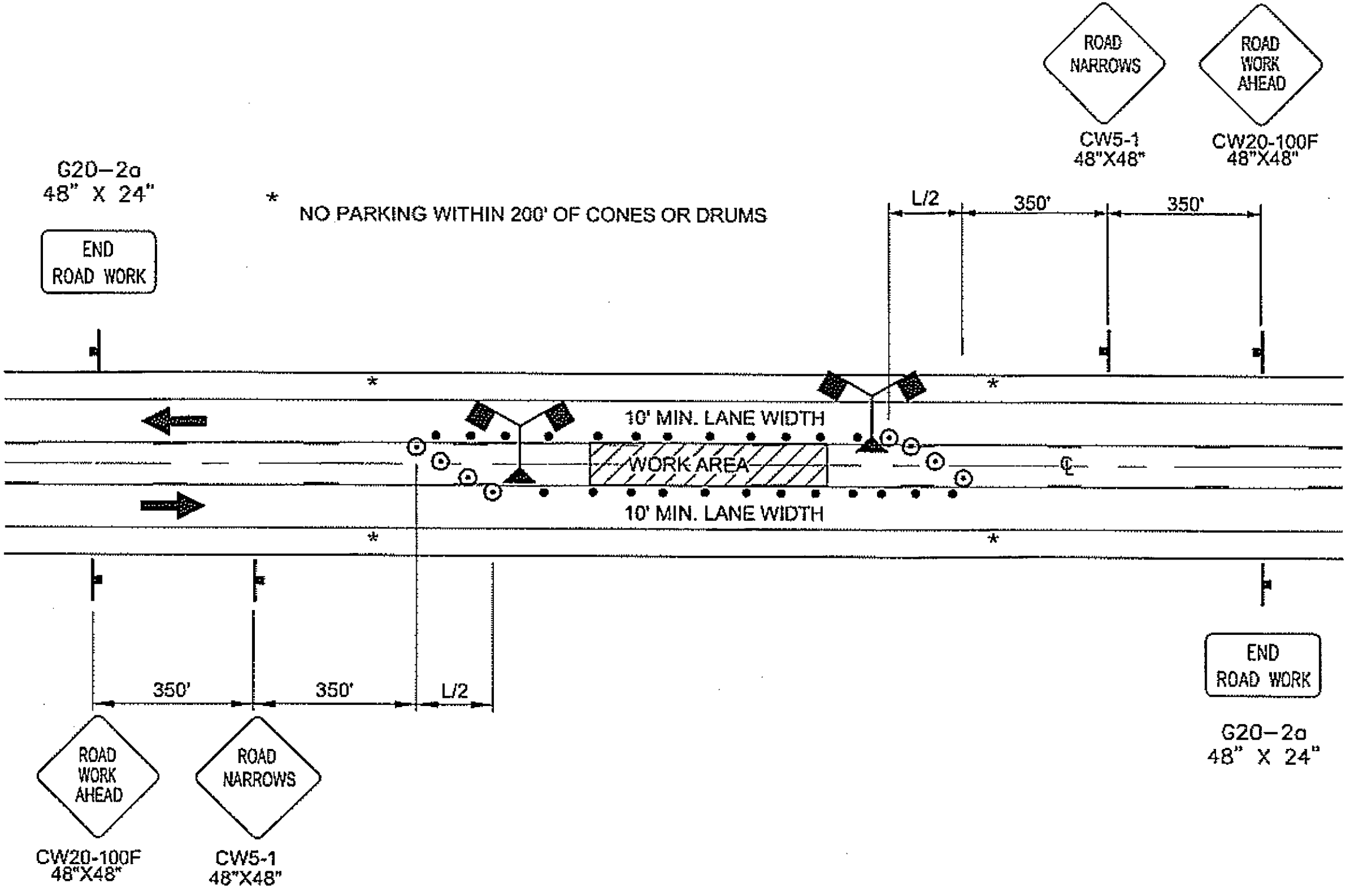
CHECKED BY: C. HOWARD 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION KTN - FFY08 AREAWIDE PAVING PROJECT # 67791 MISCELLANEOUS DETAILS																		
DESIGNED BY: J. WEAVER DRAWN BY: R. SNYDER		PATH: Q:\PSG\68076\PLANSET\GUARDRAIL\68076_F_PLAN_5-23-07.DWG TAB: D2 RKSNYDER																		
<table border="1"> <thead> <tr> <th colspan="3">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		REVISIONS			NO.	DATE	DESCRIPTION				<table border="1"> <thead> <tr> <th>PROJECT DESIGNATION</th> <th>YEAR</th> <th>SHEET NO.</th> <th>TOTAL SHEETS</th> </tr> </thead> <tbody> <tr> <td>AC-NH-0003(131) ~ 67791</td> <td>2008</td> <td>D2</td> <td>23</td> </tr> </tbody> </table>		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS	AC-NH-0003(131) ~ 67791	2008	D2	23
REVISIONS																				
NO.	DATE	DESCRIPTION																		
PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS																	
AC-NH-0003(131) ~ 67791	2008	D2	23																	

TRAFFIC CONTROL NOTES

1. TWO WAY TRAFFIC WILL BE MAINTAINED ON TONGASS AVENUE AT ALL TIMES. MAINTAIN TWO WAY TRAFFIC ON NORTH POINT HIGGINS ROAD WHEN POSSIBLE.
2. 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 AND SUBMITTED FOR APPROVAL BY THE ENGINEER PRIOR TO USE.
3. TRAFFIC LANES SHALL BE A MINIMUM OF 10 FEET WIDE.
4. TEMPORARY PAVEMENT MARKINGS WILL BE REQUIRED AS DESCRIBED IN SECTION 643-3.04 OF THE SPECIFICATIONS.
5. ACCESS TO BUSINESSES AND HOMES WILL BE OPENED WITHIN ONE HOUR AFTER THE GRINDING OPERATION.
6. TO KEEP THE PUBLIC INFORMED OF CONSTRUCTION ACTIVITIES, USE THE LOCAL NEWS MEDIA. NEWS RELEASES SHALL BE APPROVED BY THE ENGINEER PRIOR TO THEIR RELEASE. NEWS RELEASES WILL BE REQUIRED BUT NOT LIMITED TO, THE ONSET OF WORK, GRINDING, PAVING, AND CHANGES IN THE LANE CONFIGURATIONS.
7. IF TRAFFIC DELAYS BECOME LONGER THAN 3 MINUTES AVERAGE PER VEHICLE, NIGHTTIME OPERATIONS MAY BE DIRECTED.
8. WORK ZONE DOUBLE TRAFFIC FINE SIGNS SHALL BE USED AS DIRECTED BY THE ENGINEER AND PER STANDARD DRAWING C-04.12.
9. ALL TRAFFIC CONTROL PLANS SUBMITTED BY THE CONTRACTOR SHALL BE NUMBERED. ALL TRAFFIC CONTROL PLANS THAT USE A TYPICAL APPLICATION AS DESCRIBED IN THE MUTCD SHALL REFERENCE THE TYPICAL APPLICATION. EXAMPLE: TCP 3, MUTCD TA-10.
10. ORANGE CONSTRUCTION SIGNS SHALL USE TYPE VIII OR IX FLOURESCENT SHEETING AS DETAILED IN SECTION 615-2.01.
11. FOR WORK NEAR TRAFFIC SIGNALS, FLAGGERS ARE PROHIBITED FROM FLAGGING TRAFFIC WHILE A SIGNAL IS IN OPERATION. IF YOU WISH TO TURN A SIGNAL OFF TO ALLOW FLAGGING THRU AN INTERSECTION, INCLUDE IT IN THE WRITTEN NOTICE TO THE ENGINEER A MINIMUM OF 7 CALENDAR DAYS SO THE ENGINEER CAN COORDINATE WITH THE D.O.T. TRAFFIC SECTION.



TWO-WAY TRAFFIC USING CENTER LANE



TWO-WAY TRAFFIC CENTER LANE CLOSURE

- LEGEND
- SIGN
 - CONE
 - DRUM
 - TYPE III BARRICADE
 - FLAGGING STATION
 - HI-LEVEL WARNING DEVICE

FORMULAS FOR L (TAPER LENGTH)

40 MPH OR LESS $L = \frac{W \times S^2}{60}$

45 MPH OR GREATER $L = W \times S$

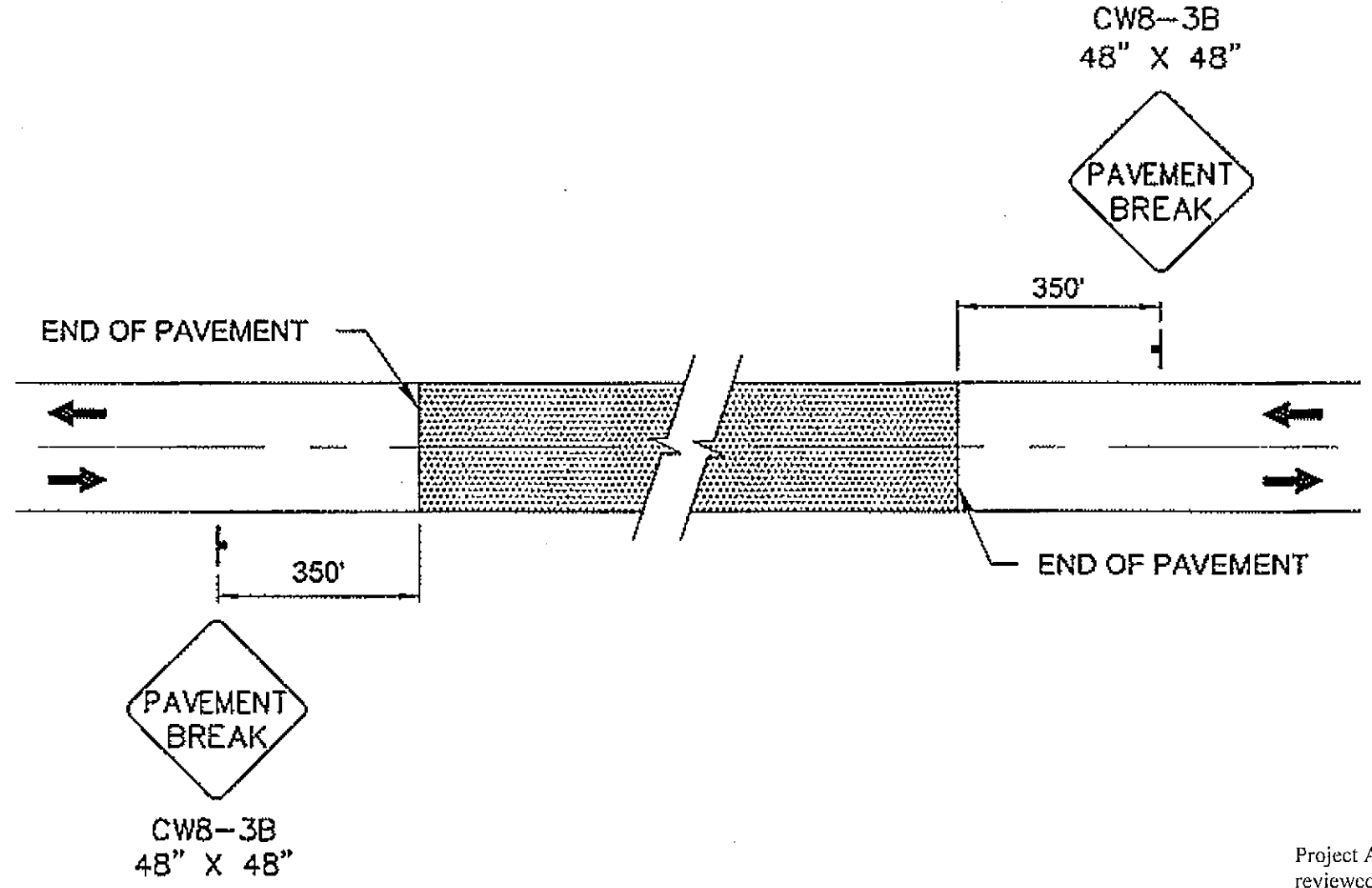
WHERE W = WIDTH OF OFFSET

S = POSTED SPEED LIMIT OR ANTICIPATED OPERATING SPEED

MAXIMUM DRUM OR CONE SPACING = S (IN FEET) FOR TAPERS

= 2S (IN FEET) FOR TANGENTS

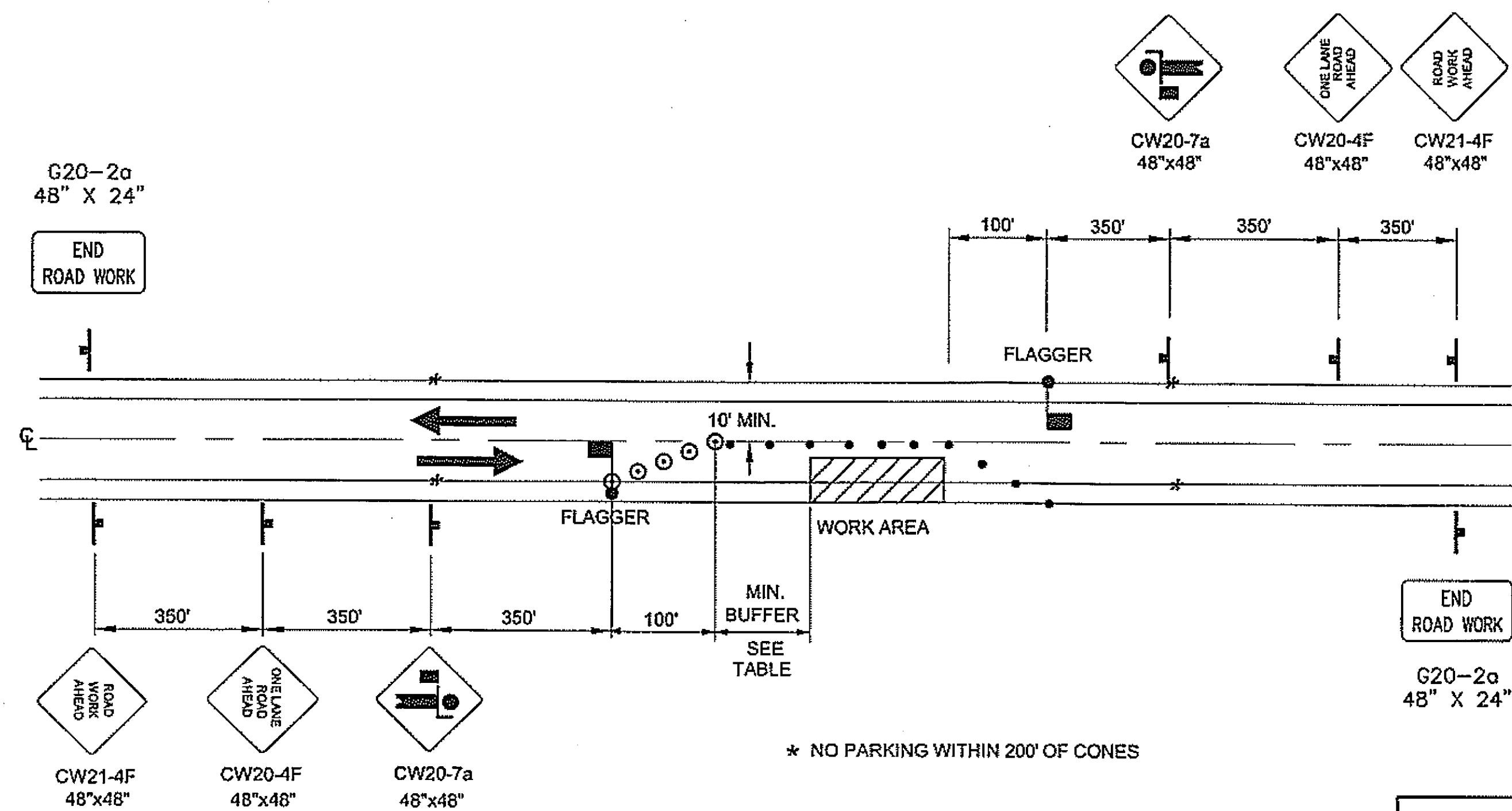
MIN. BUFFER S	LENGTH
20	115
25	115
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645



SIGNING FOR UNPAVED AREA

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. HOWARD	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION
DESIGNED BY: J. WEAVER	KTN - FFYO8 AREAWIDE PAVING PROJECT # 67791
DRAWN BY: R. SNYDER	TRAFFIC CONTROL PLAN
PATH: Q:\KTN\67791\PLANSET\TCP.DWG	
TAB: E1	RKSNYDER
REVISIONS	PROJECT DESIGNATION
NO. DATE DESCRIPTION	YEAR
	2008
	E1
	23



TWO LANE ROAD - SINGLE LANE CLOSURE

DOUBLE FLAGGER

LEGEND

- SIGN
- CONE
- DRUM
- TYPE III BARRICADE
- FLAGGING STATION
- HI-LEVEL WARNING DEVICE

FORMULAS FOR L (TAPER LENGTH)

40 MPH OR LESS $L = \frac{W \times S^2}{60}$

45 MPH OR GREATER $L = W \times S$

WHERE W= WIDTH OF OFFSET

S= POSTED SPEED LIMIT
OR ANTICIPATED
OPERATING SPEED

MAXIMUM DRUM
OR CONE SPACING = S (IN FEET) FOR TAPERS
= 2S (IN FEET) FOR TANGENTS

S	MIN. BUFFER LENGTH
20	115
25	115
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng. Date 3-9-09

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. HOWARD 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION KTN - FFYO8 AREAWIDE PAVING PROJECT # 67791	
DESIGNED BY: J. WEAVER DRAWN BY: R. SNYDER		TRAFFIC CONTROL PLAN	
PATH: Q:\PSG\68076\PLANSET\GUARDRAIL\68076_F_PLAN_5-23-07.DWG TAB: E2		PROJECT DESIGNATION AC-NH-0003(131) ~ 67791	
REVISIONS NO. DATE DESCRIPTION	YEAR 2008	SHEET NO. E2	TOTAL SHEETS 23