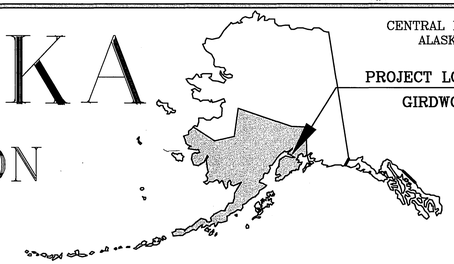
STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES



REVISIONS		
NO.	DATE	DESCRIPTION

YEAR	STATE	PROJECT DESIGNATION	SHEET NO.	TOTAL SHEETS
2002	ALASKA	NH-0A3-1(28)/54433	A1	222

CDS ROUTE: 130000 CDS MILEPOINT: 96.6 TO 101.2

NH-0A3-1(28) / 54433 AS BUILT PLANS

SEWARD HWY MP 96 TO MP 102 SAFETY, ROADWAY & RECREATIONAL IMPROVEMENTS, REBID

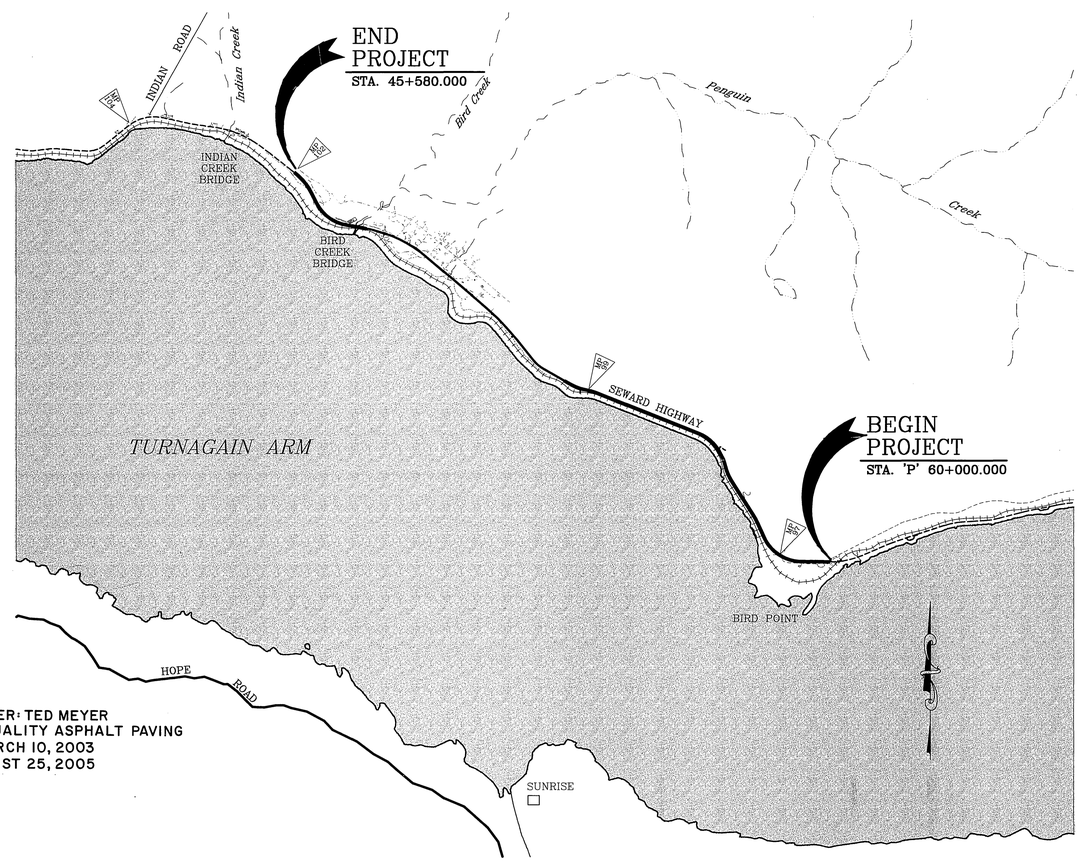
GRADING, DRAINAGE, PAVING, SIGNING AND STRIPING

METRIC PLANS

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

AS ADVERTISED
CENTRAL REGION
DATE DECEMBER 4, 2002

SPECIFICATIONS | DESIGNED BY | 11-20-02
SCALE 1=1 | CHECKED BY | KMH
COMPUTER DESIGNATION | DRAFTED BY
AUTOCAD-KARE=D:\SRSROPRO\5697\DATA\77777L-CROP1.DWG | VIEW=PLOT | SCALE = 40



PROJECT ENGINEER: TED MEYER
CONTRACTOR: QUALITY ASPHALT PAVING
BEGIN DATE: MARCH 10, 2003
END DATE: AUGUST 25, 2005

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:

A-1[M]
C-03.10[M], C-04.11[M], C-05.10[M]
D-01.02[M], D-04.20[M], D-06.10[M], D-07.00[M],
D-24.00[M], D-26.04[M]
E-09.00[M]
G-00.01[M], G-04.07W[M], G-10.01[M]
G-20.01[M],
I-30.01[M], I-81.00[M]
M-13.01[M], M-16.01[M]
S-05.01[M], S-20.00[M], S-30.03[M],
T-05.00[M], T-20.01[M], T-21.02[M], T-22.03[M]

THE FOLLOWING ALASKA RAILROAD STANDARD DRAWINGS APPLY TO THIS PROJECT:

1.13, *1.16, 1.21
2.21, *2.71, 2.81
3.1
4.12
5.12
6.1
7.0, 8.1
30.02, 30.10, 30.2, 30.21, 30.22, 30.91, 30.93, 30.94
90.4

*AS MODIFIED HEREIN

DESIGN DESIGNATIONS	
	SEWARD HIGHWAY
A.D.T. 2002	7,989
A.D.T. 2012	10,227
V. (KPH)	110
D.	45/55
T. (%)	7.9
E.A.L.	1,271,473

INDEX

ROADWAY SUMMARY	
LENGTH OF PAVING	8440 m
WIDTH OF ROADWAY	12-16.8 m
BRIDGE NO. 643, BIRD CREEK	61.9 m

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES

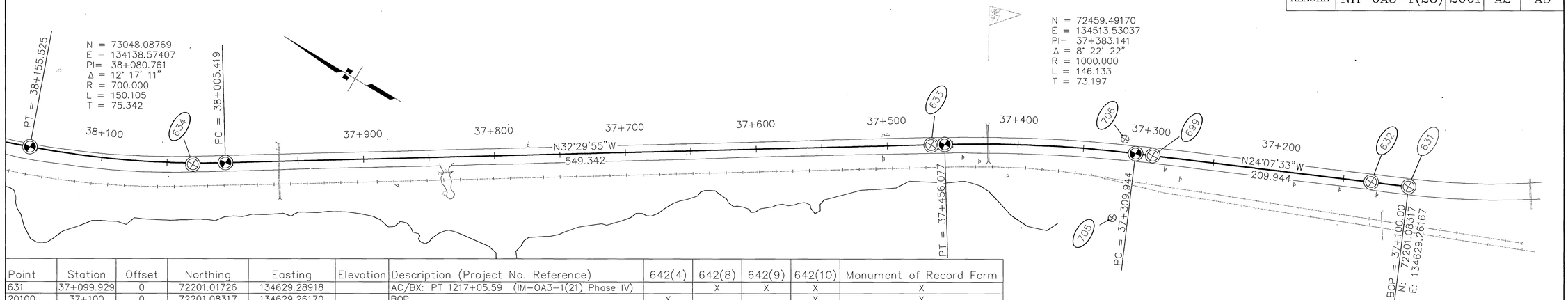
STATE OF ALASKA 49TH HENRY H. WILSON CE 1732 REGISTERED PROFESSIONAL ENGINEER 11-26-02
STATE OF ALASKA 49TH JUDY J. DOUGHERTY CE 8833 REGISTERED PROFESSIONAL ENGINEER 11-26-02
STATE OF ALASKA 49TH REGISTERED PROFESSIONAL ENGINEER

APPROVED: _____ DATE 11/26/02
REGIONAL PRECONSTRUCTION ENGINEER

CONCUR: _____ DATE 11/26/02
DIRECTOR, CONSTRUCTION & OPERATIONS

CERTIFIED TRUE & CORRECT AS-BUILT OF ACTUAL FIELD CONDITIONS:
_____ DATE _____
CONSTRUCTION PROJECT MANAGER

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0A3-1(28)	2001	A2	A5



Point	Station	Offset	Northing	Easting	Elevation	Description (Project No. Reference)	642(4)	642(8)	642(9)	642(10)	Monument of Record Form
631	37+099.929	0	72201.01726	134629.28918		AC/BX: PT 1217+05.59 (IM-0A3-1(21) Phase IV)		X	X	X	X
20100	37+100	0	72201.08317	134629.26170		BOP	X			X	X
632	37+128.703	0	72227.27908	134617.52952		AC/BX: EOP 1218+00 (IM-0A3-1(21) Phase IV)		X	X	X	X
699	37+296.684	0	72380.58675	134548.86888		BC/BX: PC 1308+42.47 (ER-AO 27(1))		X	X	X	X
20101	37+309.944	0	72392.68876	134543.44890		PC	X			X	X
706	37+319.229	10.015	72405.32320	134548.71570		USS 9012 Corner 1BL1		X	X		X
705	37+322.317	-50.865	72382.58630	134492.16060		USS 9012 Corner 1AL1		X	X		X
20104	37+456.077	0	72521.22611	134474.20340		PT	X			X	X
633	37+466.395	-0.254	72529.79197	134468.44548	8.408	BC/BX: PT 1313+98.99 (ER-AO 27(1))		X	X	X	X
20105	38+005.419	0	72984.54419	134179.05350		PC	X			X	X
634	38+030.362	-1.035	73005.29080	134165.13765	8.592	BC/BX: PC 1332+50.07 (ER-AO 27(1))		X	X	X	X
20108	38+155.525	0	73118.78971	134112.54360		PT	X			X	X
635	38+213.044	-0.421	73172.62140	134092.27567		BC/BX: PT 1338+50.87 (ER-AO 27(1))		X	X	X	X
704	38+224.070	-47.898	73166.56550	134043.91240		USS 9012 Corner 2AL1		X	X		X
20109	38+277.023	0	73232.80625	134070.56590		PC	X			X	X
636	38+338.970	14.778	73296.21853	134060.28005		BC/BX: PC 1342+70.33 (ER-AO 27(1))		X	X	X	X
20130	38+600	0	73504.279	133899.934		POC	X			X	X
1	38+644.816	53.132	73574.66136	133903.79980		RBR/PC: TS BI-1					
637	38+856.761	39.683	73691.39789	133712.23340		BC/BX: PT 1360+64.87 (ER-AO 27(1))		X	X	X	X
703	38+868.784	52.603	73708.64320	133706.59200		USS 9012 Corner 3BL1		X	X		X
20112	38+912.340	0	73679.39013	133643.84920		PT	X			X	X

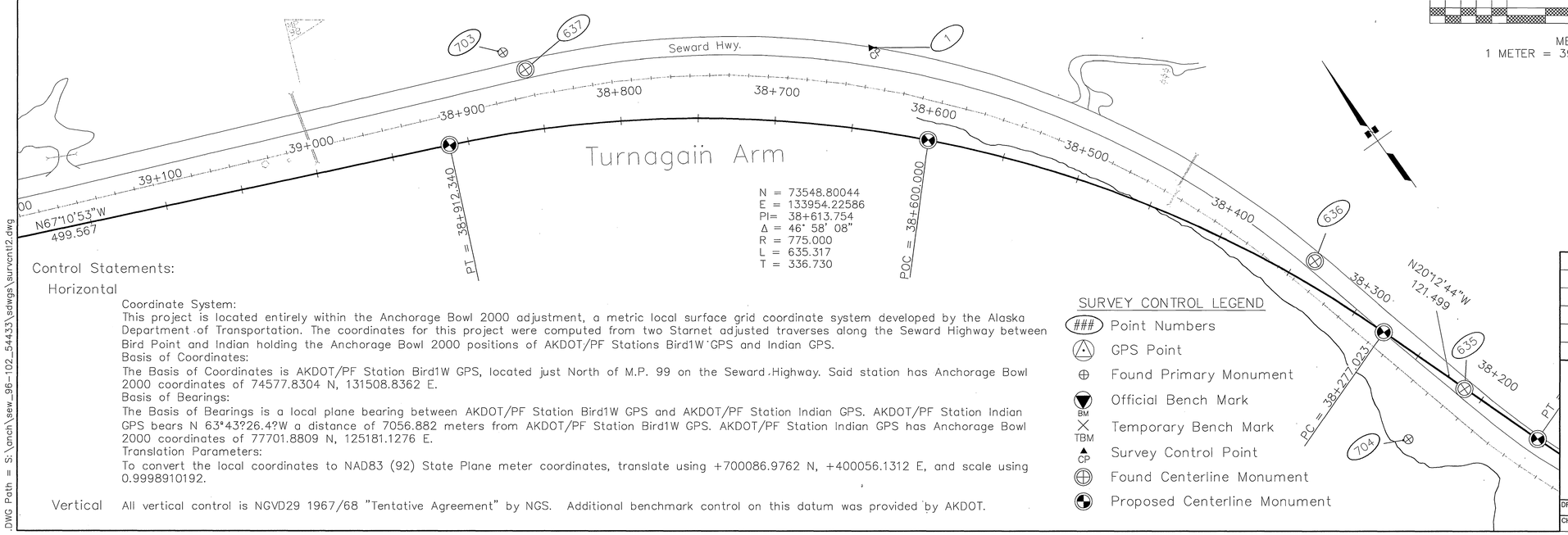
NOTES:

1. Whether listed or not, all monuments or property markers, corners, or accessories, which will be disturbed or buried, shall be referenced or re-established in their original postion (A.S. 19.10.260) and recorded (A.S. 34.65.040).

2. Centerline monument positions at the P.C.'s, P.T.'s, and No-Curve P.I.'s have been marked with aluminum capped rebars installed by AKDOT prior to construction. These positions shall be verified and referenced by the contractor's surveyor prior to any activity which might disturb their position. Monuments to be installed as a part of this project shall be set at these positions.

View 1-A

View 1-B



METRIC BAR SCALE
1 METER = 3937/1200 U.S. SURVEY FEET

Control Statements:

Horizontal

Coordinate System:
This project is located entirely within the Anchorage Bowl 2000 adjustment, a metric local surface grid coordinate system developed by the Alaska Department of Transportation. The coordinates for this project were computed from two Starnet adjusted traverses along the Seward Highway between Bird Point and Indian holding the Anchorage Bowl 2000 positions of AKDOT/PF Stations Bird1W GPS and Indian GPS.
Basis of Coordinates:
The Basis of Coordinates is AKDOT/PF Station Bird1W GPS, located just North of M.P. 99 on the Seward Highway. Said station has Anchorage Bowl 2000 coordinates of 74577.8304 N, 131508.8362 E.
Basis of Bearings:
The Basis of Bearings is a local plane bearing between AKDOT/PF Station Bird1W GPS and AKDOT/PF Station Indian GPS. AKDOT/PF Station Indian GPS bears N 63°43?26.4?W a distance of 7056.882 meters from AKDOT/PF Station Bird1W GPS. AKDOT/PF Station Indian GPS has Anchorage Bowl 2000 coordinates of 77701.8809 N, 125181.1276 E.
Translation Parameters:
To convert the local coordinates to NAD83 (92) State Plane meter coordinates, translate using +700086.9762 N, +400056.1312 E, and scale using 0.9998910192.

Vertical All vertical control is NGVD29 1967/68 "Tentative Agreement" by NGS. Additional benchmark control on this datum was provided by AKDOT.

SURVEY CONTROL LEGEND

- ### Point Numbers
- GPS Point
- Found Primary Monument
- BM Official Bench Mark
- TBM Temporary Bench Mark
- CP Survey Control Point
- Found Centerline Monument
- Proposed Centerline Monument

STATE OF ALASKA
49TH
MICHAEL E. MILLER
LS-7222
10/02/01
REGISTERED PROFESSIONAL LAND SURVEYOR

DATE	REVISIONS	BY

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

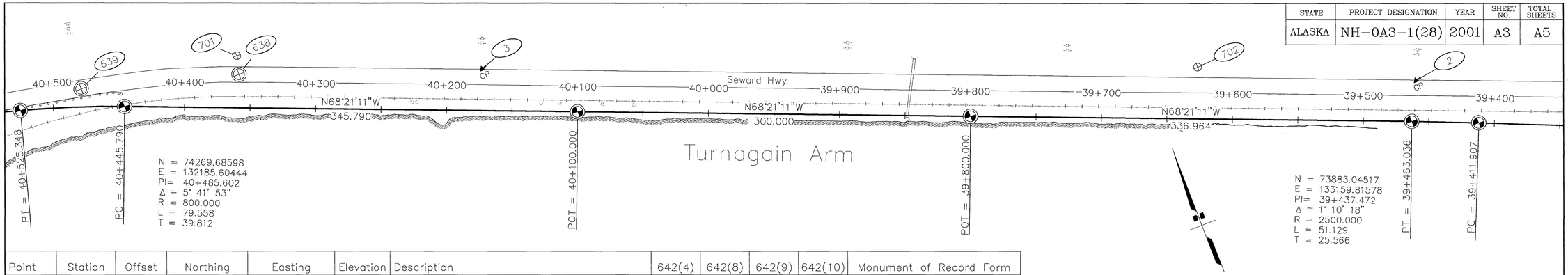
SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

Survey Control Sheet

DRAWN	BK	DATE	8/08/2001	SCALE	1:1500
CHECKED		DATE		SHEET	1 OF 4

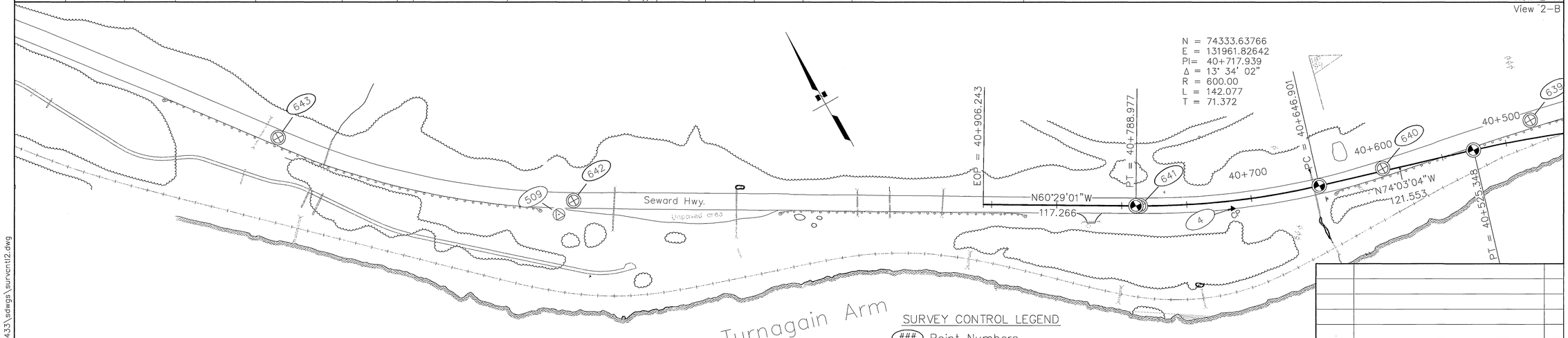
DWG Path = S:\anch\sew_96-102_54433\sdwgs\surcontl2.dwg

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0A3-1(28)	2001	A3	A5



Point	Station	Offset	Northing	Easting	Elevation	Description	642(4)	642(8)	642(9)	642(10)	Monument of Record Form
20113	39+411.907	0	73873.13044	133183.38040		PC	X			X	X
2	39+460.192	31.403	73920.60069	133150.31340		RBR/PC: TS BI-2					
20116	39+463.036	0	73892.47593	133136.05330		PT	X			X	X
702	39+626.927	39.696	73989.82910	132998.36400		USS 9012 Corner 4BL2		X	X		X
20131	39+800	0	74016.777	132822.854		POT	X			X	X
20132	40+100	0	74127.443	132544.011		POT	X			X	X
3	40+173.218	31.935	74184.13483	132487.73750		RBR/PC[DOWL]: TS BI-3					
638	40+358.674	25.693	74246.74550	132313.05782		BC/BX: PC 596+01.81 (F-031-2(55))		X	X	X	X
701	40+360.477	39.83	74260.55000	132316.59670		USS 9012 Corner 5BL3		X	X		X
20117	40+445.790	0	74254.99988	132222.60870		PC	X			X	X
639	40+478.434	13.89	74279.52820	132196.62246		BC/BX: PT 600+29.83 (F-031-2(55))		X	X	X	X
20120	40+525.348	0	74280.62558	132147.32490		PT	X			X	X
640	40+596.366	1.994	74302.05765	132079.58885		BC/BX: PC 604+20.97 (F-031-2(55))		X	X	X	X
20121	40+646.901	0	74314.02593	132030.45130		PC	X			X	X
4	40+715.236	-5.869	74331.07738	131963.71260	19.965	RBR/PC: TS BI-4					
641	40+785.545	-0.01	74367.10980	131902.70385		BC/BX: PT 610+42.03 (F-031-2(55))		X	X	X	X
20124	40+788.977	0	74368.80068	131899.71720		PT	X			X	X
40000	40+906.243	0	74426.57403	131797.6709		EOP	X			X	X
642			74581.61852	131523.81253		BC/BX: PC 624+69.93 (F-031-2(55))		X	X	X	X
509			74577.83041	131508.83620		BC/ROD[DOT]: BIRD1W GPS 1993					
643			74734.02950	131348.70821		BC/BX: PT 632+36.63/ PC 632+3 (F-031-2(55))		X	X	X	X

View 2-A
View 2-B



NOTES:

1. Whether listed or not, all monuments or property markers, corners, or accessories, which will be disturbed or buried, shall be referenced or re-established in their original postion (A.S. 19.10.260) and recorded (A.S. 34.65.040).

2. Centerline monument positions at the P.C.'s, P.T.'s, and No-Curve P.I.'s have been marked with aluminum capped rebars Installed by AKDOT prior to construction. These positions shall be verified and referenced by the contractor's surveyor prior to any activity which might disturb their position. Monuments to be installed as a part of this project shall be set at these positions.

50 0 50 100 150 200

METRIC BAR SCALE
1 METER = 3937/1200 U.S. SURVEY FEET

SURVEY CONTROL LEGEND

- (###) Point Numbers
- GPS Point
- Found Primary Monument
- BM Official Bench Mark
- TBM Temporary Bench Mark
- CP Survey Control Point
- Found Centerline Monument
- Proposed Centerline Monument

STATE OF ALASKA
10TH
MICHAEL E. MILLER
LS-7222
REGISTERED PROFESSIONAL LAND SURVEYOR
10/21/01

DATE	REVISIONS	BY

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

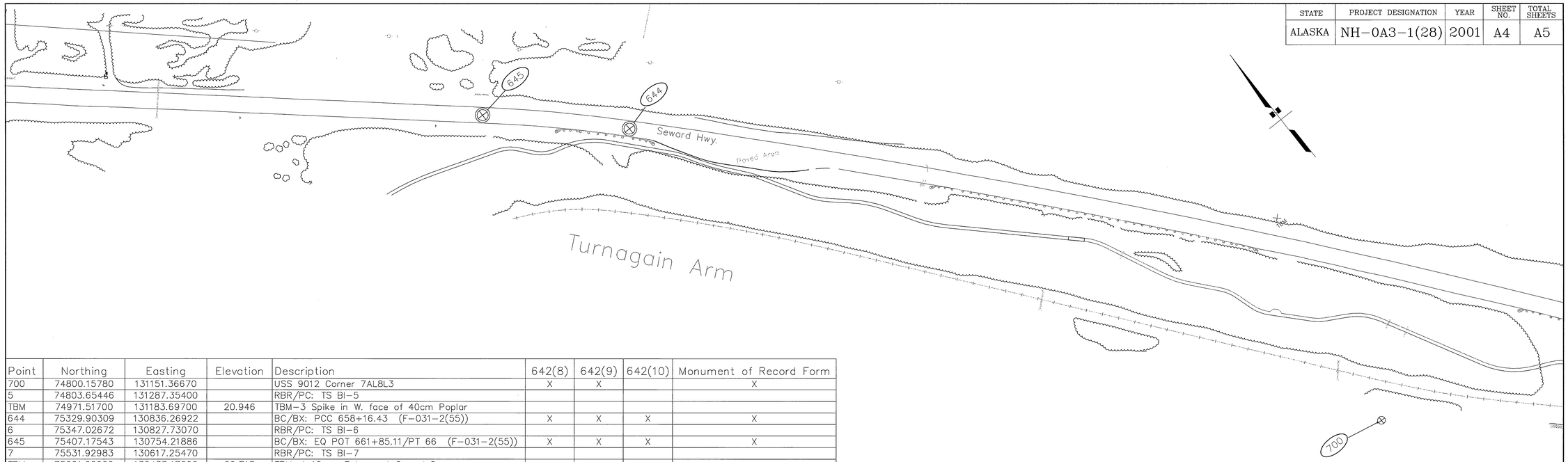
SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

Survey Control Sheet

DRAWN	BK	DATE	8/08/2001	SCALE	1:1500
CHECKED		DATE		SHEET	2 OF 4

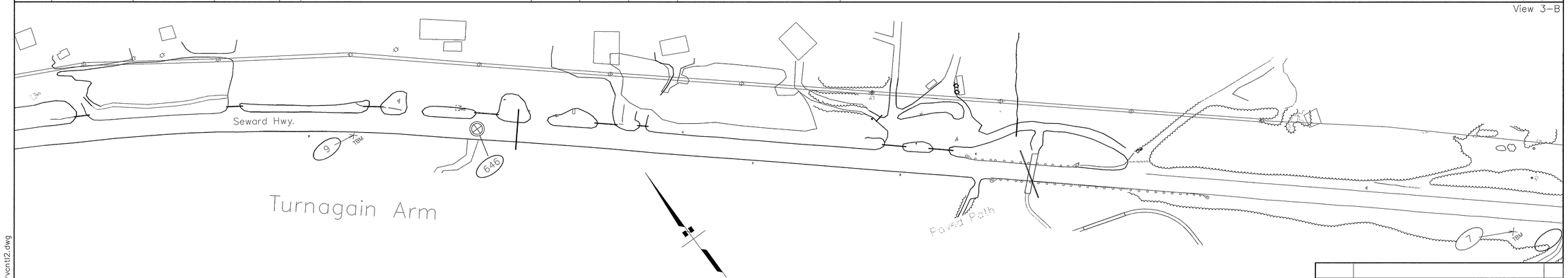
.DWG Path = S:\anch\sew_96-102_54433\sdwgs\survcntl2.dwg

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0A3-1(28)	2001	A4	A5



Point	Northing	Easting	Elevation	Description	642(8)	642(9)	642(10)	Monument of Record Form
700	74800.15780	131151.36670		USS 9012 Corner 7AL8L3	X	X		X
5	74803.65446	131287.35400		RBR/PC: TS BI-5				
TBM	74971.51700	131183.69700	20.946	TBM-3 Spike in W. face of 40cm Poplar				
644	75329.90309	130836.26922		BC/BX: PCC 658+16.43 (F-031-2(55))	X	X	X	X
6	75347.02672	130827.73070		RBR/PC: TS BI-6				
645	75407.17543	130754.21886		BC/BX: EQ POT 661+85.11/PT 66 (F-031-2(55))	X	X	X	X
7	75531.92983	130617.25470		RBR/PC: TS BI-7				
TBM	75661.06600	130433.17600	29.713	TBM-4 16mm Rebar set 2cm A.G.				
8	76002.22654	130067.26120		RBR/PC: TS BI-8				
TBM	76244.69400	129755.70800	28.730	TBM-5 16mm Rebar set 2cm A.G.				
646	76192.79288	129835.27325		BC/BX: PC 704+55.08 (F-031-2(55))	X	X	X	X
9	76317.73925	129681.15440		RBR/PC: TS BI-9				

View 3-A
View 3-B



SURVEY CONTROL LEGEND

- ### Point Numbers
- GPS Point
- Found Primary Monument
- BM Official Bench Mark
- TBM Temporary Bench Mark
- CP Survey Control Point
- Found Centerline Monument
- Proposed Centerline Monument

50 0 50 100 150 200

METRIC BAR SCALE
1 METER = 3937/1200 U.S. SURVEY FEET

NOTES:

1. Whether listed or not, all monuments or property markers, corners, or accessories, which will be disturbed or buried, shall be referenced or re-established in their original postion (A.S. 19.10.260) and recorded (A.S. 34.65.040).

STATE OF ALASKA
40TH
MICHAEL E. MILLER
LS-7222
10/02/01
REGISTERED PROFESSIONAL LAND SURVEYOR

DATE	REVISIONS	BY

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

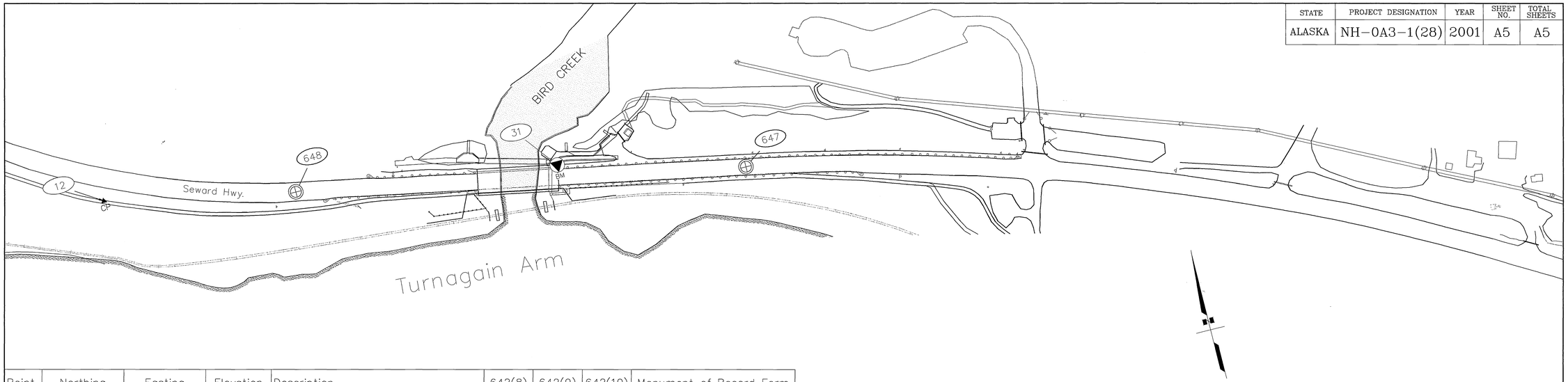
SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

Survey Control Sheet

DRAWN	BK	DATE	8/08/2001	SCALE	1:1500
CHECKED		DATE		SHEET	3 OF 4

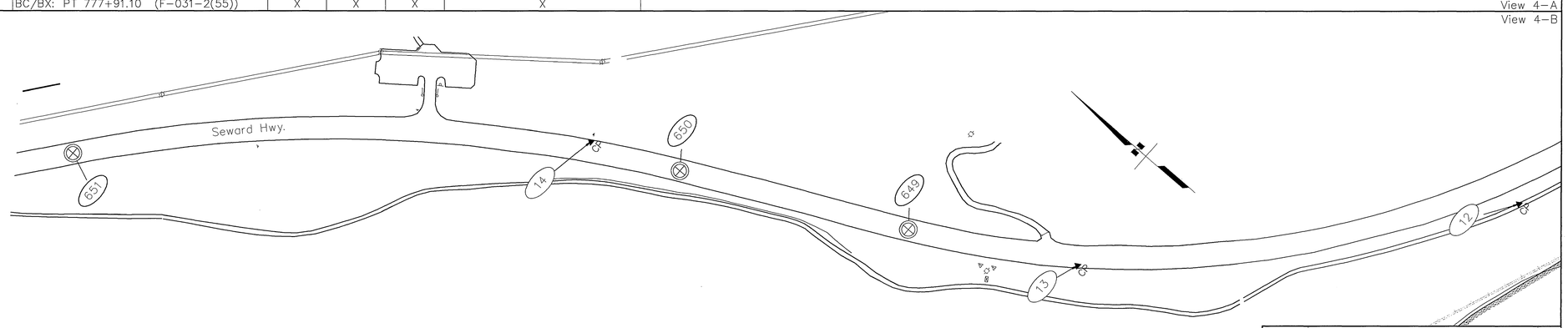
.DWG Path = S:\anch\sew_96-102_54433\sdwgs\survcntl2.dwg

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0A3-1(28)	2001	A5	A5



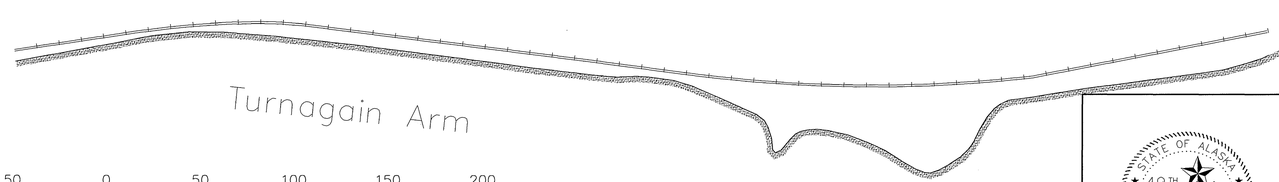
Point	Northing	Easting	Elevation	Description	642(8)	642(9)	642(10)	Monument of Record Form
10	76468.36788	129416.35610		RBR/PC: TS BI-10				
647				BC/BX: EQ PT 28+32.39 (F-031-2(55))	X	X	X	X
11	76605.48512	128943.08310	9.308	RBR/PC: TS BI-11				
31	76616.99200	128888.50600	10.009	CP-601/A-73 RESET				
648				BC/BX: PC 742+65.83 (F-031-2(55))	X	X	X	X
12	76674.07978	128545.98390	29.069	RBR/PC: TS BI-12				
13	76860.40263	128331.90270	35.591	RBR/PC: TS BI-13				
649				BC/BX: PT 760+19.42 (F-031-2(55))	X	X	X	X
650				BC/BX: PC 765+12.11 (F-031-2(55))	X	X	X	X
14	77146.13479	128188.04990		RBR/PC: TS BI-14				
651				BC/BX: PT 777+91.10 (F-031-2(55))	X	X	X	X

View 4-A
View 4-B



SURVEY CONTROL LEGEND

- ### Point Numbers
- GPS Point
- Found Primary Monument
- BM Official Bench Mark
- TBM Temporary Bench Mark
- CP Survey Control Point
- Found Centerline Monument
- Proposed Centerline Monument



NOTES:

1. Whether listed or not, all monuments or property markers, corners, or accessories, which will be disturbed or buried, shall be referenced or re-established in their original postion (A.S. 19.10.260) and recorded (A.S. 34.65.040).

50 0 50 100 150 200

METRIC BAR SCALE
1 METER = 3937/1200 U.S. SURVEY FEET

STATE OF ALASKA
49TH
MICHAEL E. MILLER
LS-7222
10/02/01
REGISTERED PROFESSIONAL LAND SURVEYOR

DATE	REVISIONS	BY

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

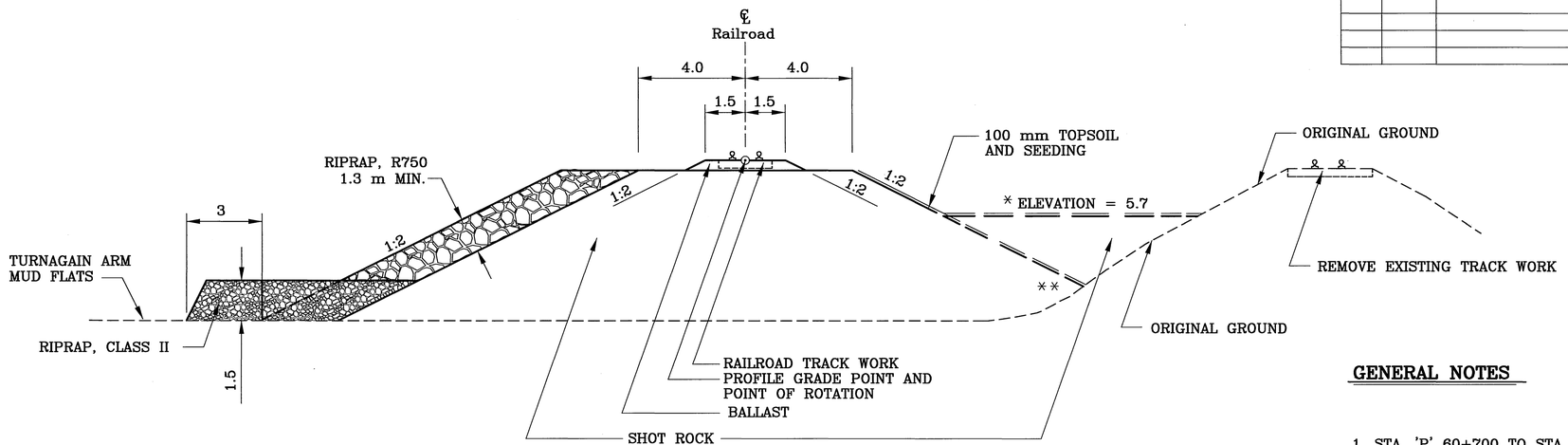
SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

Survey Control Sheet

DRAWN	BK	DATE	8/08/2001	SCALE	1:1500
CHECKED		DATE		SHEET	4 OF 4

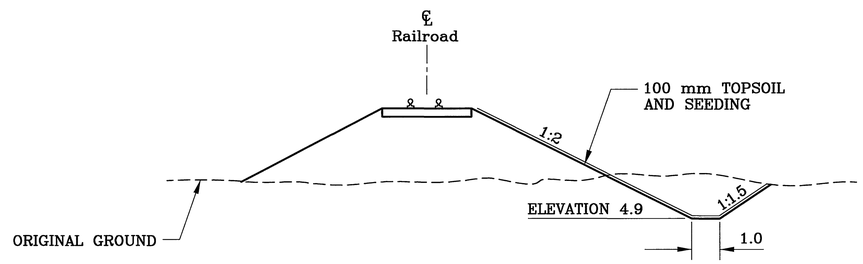
.DWG Path = S:\anch\sew_96-102_54433\sdwgs\survcntl2.dwg

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	B1	B7



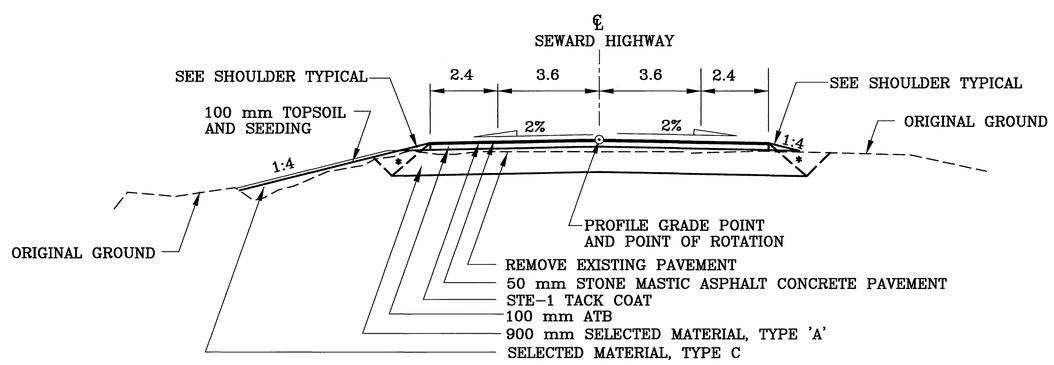
RAILROAD

STA. 'R' 2+000 TO STA. 'R' 5+140.000
* STA. 'R' 2+000 TO STA. 'R' 4+260
** SEE RAILROAD FLAT BOTTOM DITCH TYPICAL



RAILROAD FLAT BOTTOM DITCH

STA. 'R' 4+500 TO STA. 'R' 4+640, RT.
STA. 'R' 4+900 TO STA. 'R' 5+050, RT.



SEWARD HIGHWAY

STA. 37+100 TO STA. 37+680
STA. 40+600 TO STA. 40+906.25
*SEE SELECT 'A' EMBANKMENT

GENERAL NOTES

1. STA. 'P' 60+700 TO STA. 'P' 62+160 CLEAR TO 1.0 m BEYOND CATCH POINT. FOR ALL OTHER AREAS OF THE PROJECT CLEAR 3.0 m BEYOND THE SLOPE CATCH POINT, OR AS DIRECTED BY THE ENGINEER.
2. CUT/FILL TRANSITIONS WILL BE 30 m OR AS DIRECTED BY THE ENGINEER
3. NO SLOPES WILL BE STEEPER THAN 1:2 UNLESS OTHERWISE SHOWN IN THE PLANS.
4. RIPRAP ON RAILROAD EMBANKMENT IS NOT REQUIRED WHERE NATURAL ROCK CROPPINGS ARE ENCOUNTERED. OVERSIZED STONES MAY BE PLACED IN THESE AREAS AS DIRECTED BY THE ENGINEER.
5. ALL TOPSOIL SHALL BE CLASS B.
6. ALL OTHER AREAS DISTURBED BY CONSTRUCTION WILL RECEIVE SEEDING.
7. SHOT ROCK SHALL MEET THE REQUIREMENTS OF SELECTED MATERIAL, TYPE A.

HIGHWAY SLOPE EXCEPTION TABLE

STATION TO STATION	OFFSET	SLOPE		REMARKS
		CUT	FILL	
37+720 TO 37+910	RT.	1:0.5		SEE ROCK CUT TYPICAL, SHEET B7
37+970 TO 38+300	RT.	1:0.5		SEE ROCK CUT TYPICAL, SHEET B7

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

TYPICAL SECTIONS

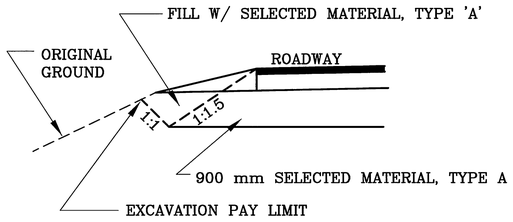
STATE OF ALASKA 49TH JUDY J. DOUGHERTY CE 8823 REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY
CHECKED BY
DRAFTED BY K&H 11-21-02
VIEW# 1
SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD D:/SOSKPROJ/53577/TBPTYP

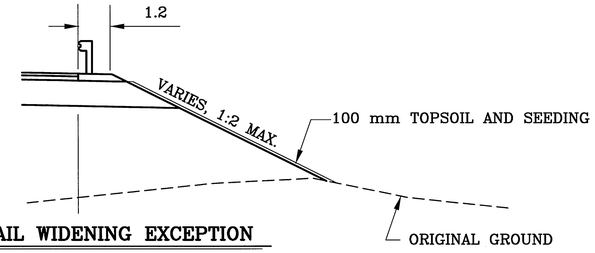
REVISIONS		
No.	DATE	DESCRIPTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0A3-1(28)	2002	B2	B7

THIS SHEET IS REPLACED BY SHEET B2A.

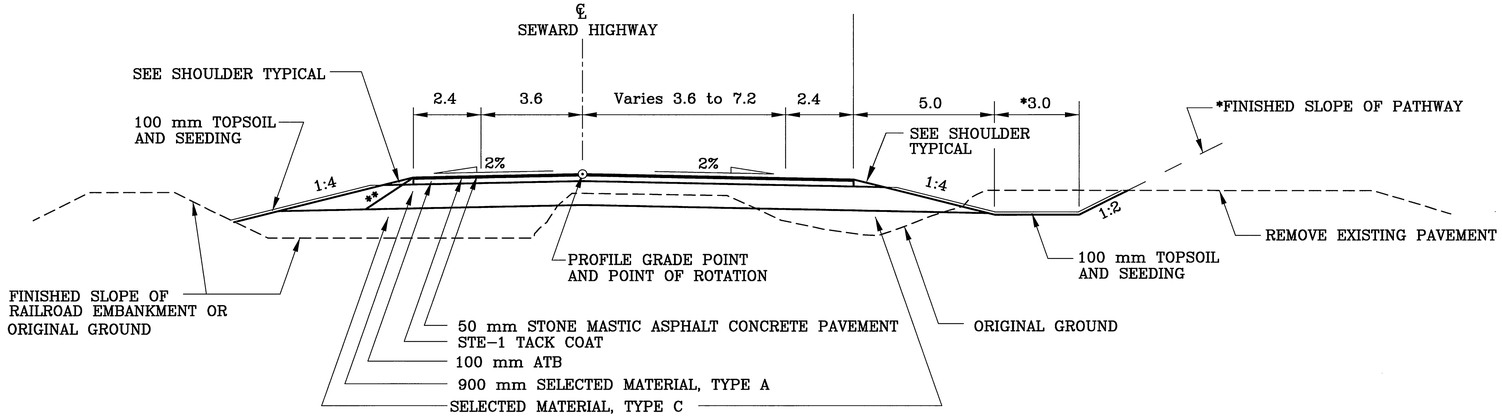


****SELECT 'A' EMBANKMENT**



GUARDRAIL WIDENING EXCEPTION

SEE GUARDRAIL SUMMARY FOR LOCATIONS

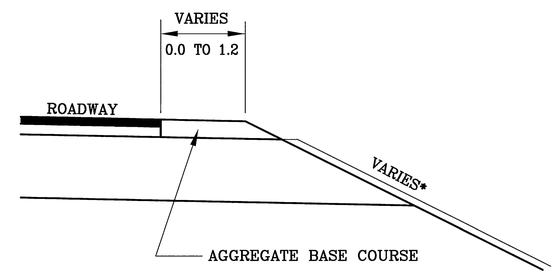


SEWARD HIGHWAY

STA. 37+680 TO STA. 40+600

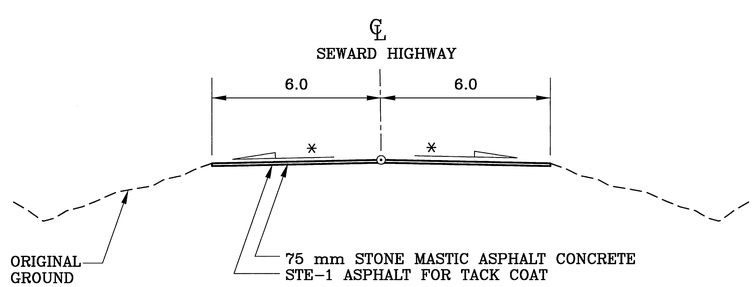
*DITCH NARROWS TO "V" AND DEPTH VARIES WHERE PATHWAY MERGES TOWARD ROADWAY TO ACCOMMODATE ANADROMOUS STREAM PIPES
STA. 38+870 TO STA. 39+120 AND STA. 39+750 TO STA. 39+930

**SEE SELECT 'A' EMBANKMENT TYPICAL, STA. 37+680 LT. TO STA. 39+200 LT.



SHOULDER

*SEE TYPICAL SECTIONS



HIGHWAY TYPICAL SECTION

MP 99 TO BIRD CREEK

STA. 40+906.250 TO STA. 44+495.000

* MATCH EXISTING CROSS SLOPE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

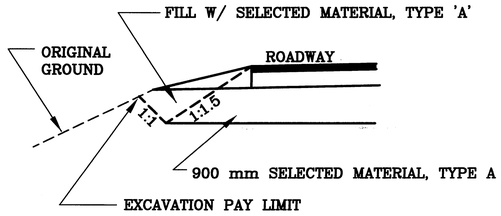
SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND RECREATIONAL IMPROVEMENTS

TYPICAL SECTIONS

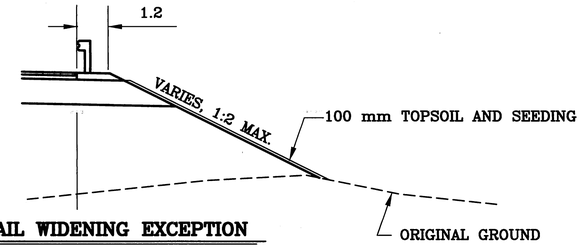
SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD D:/SDSKPROJ/53577/77BFTYP
DESIGNED BY
CHECKED BY
DRAFTED BY
KMH
11-21-02
VIEW=3

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2004	B2A	B7

CHANGE ORDER NO. 6

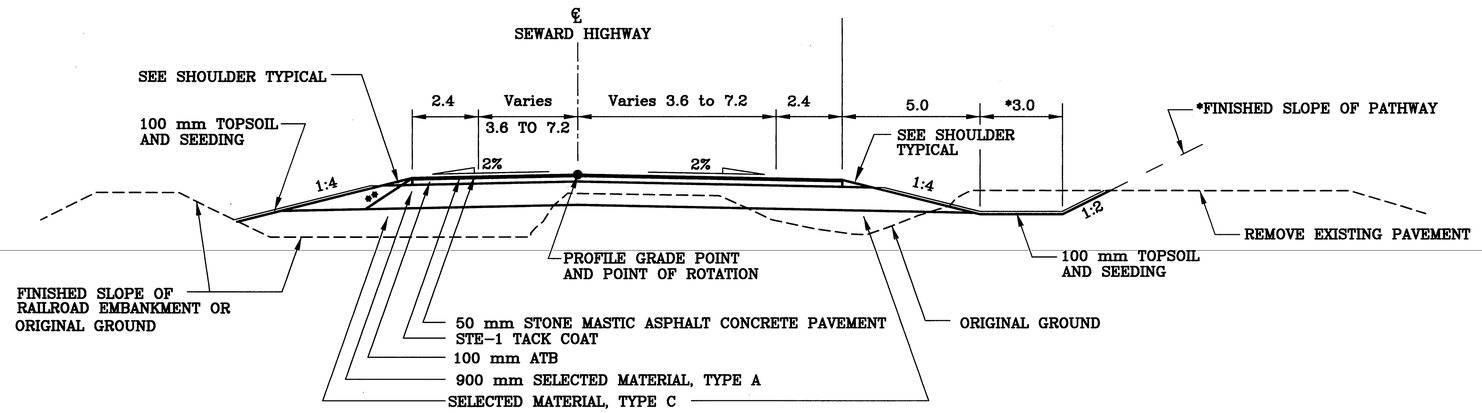


****SELECT 'A' EMBANKMENT**



GUARDRAIL WIDENING EXCEPTION

SEE GUARDRAIL SUMMARY FOR LOCATIONS

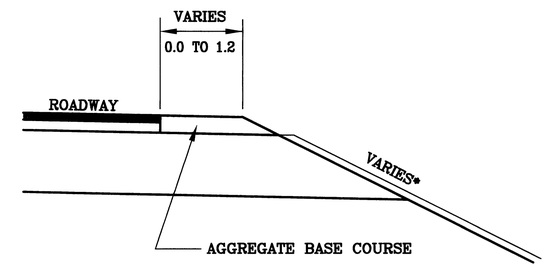


SEWARD HIGHWAY

STA. 37+680 TO STA. 40+600

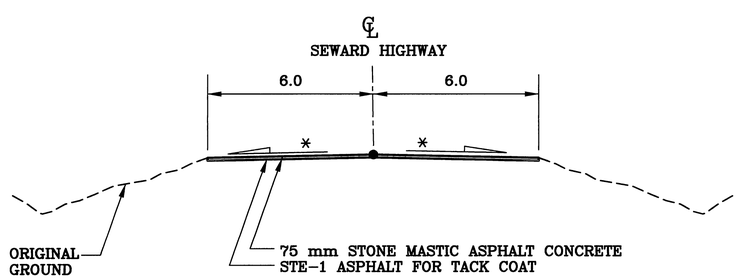
*DITCH NARROWS TO "V" AND DEPTH VARIES WHERE PATHWAY MERGES TOWARD ROADWAY TO ACCOMMODATE ANADROMOUS STREAM PIPES
STA. 38+870 TO STA. 39+120 AND STA. 39+750 TO STA. 39+930

**SEE SELECT 'A' EMBANKMENT TYPICAL, STA. 37+680 LT. TO STA. 39+200 LT.



SHOULDER

*SEE TYPICAL SECTIONS



HIGHWAY TYPICAL SECTION

MP 99 TO BIRD CREEK

STA. 40+906.250 TO STA. 44+495.000

* MATCH EXISTING CROSS SLOPE

STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
REGISTERED PROFESSIONAL ENGINEER

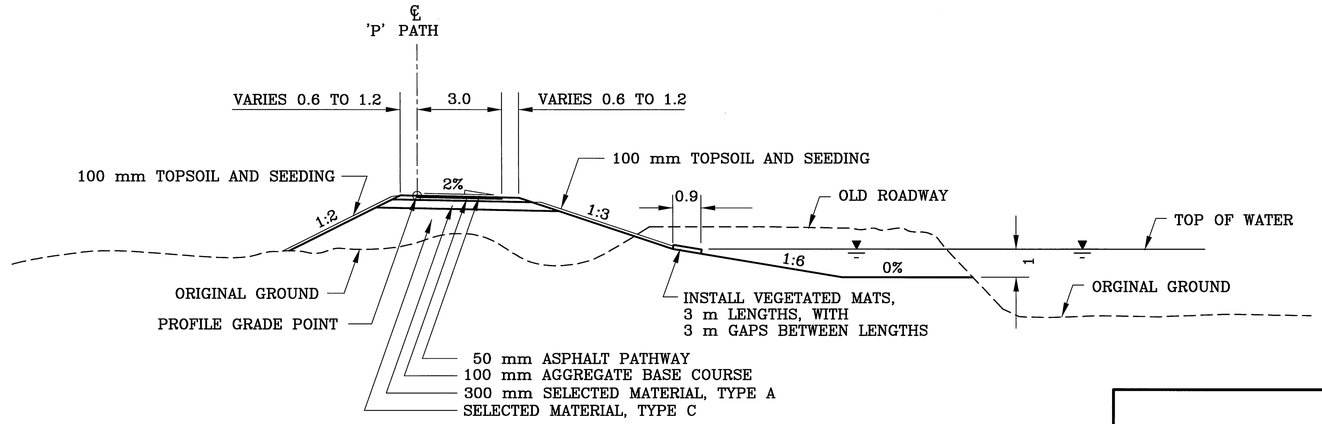
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND RECREATIONAL IMPROVEMENTS

TYPICAL SECTIONS

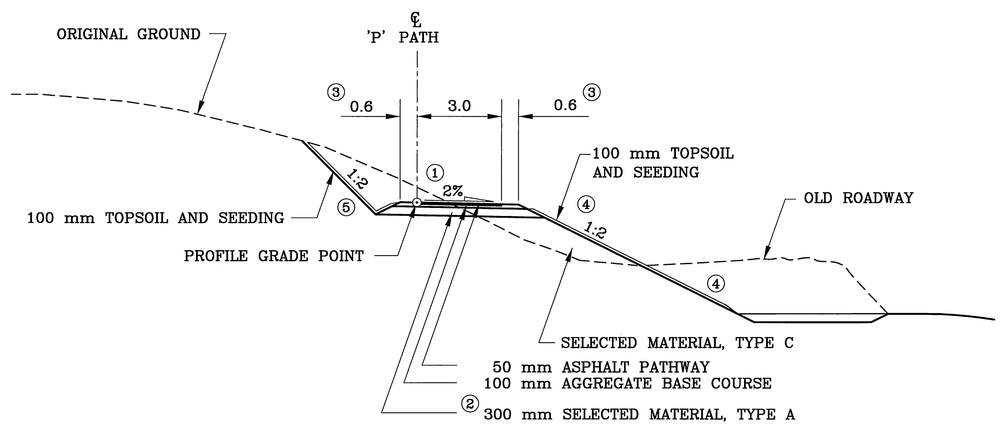
SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD: CARDLEE 54433-Seward Highway MP 96 to MP 102\77bf1typ_changeorder
VIEW=1
DESIGNED BY
CHECKED BY
DRAFTED BY
CJ
4/26/04

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	B3	B7



PATH

'P' 62+820± TO 'P' 63+180±



PATH

'P' 60+000 TO 'P' 62+820
'P' 63+180 TO 'P' 65+570

① ORIENT CROSS SLOPE TO ACCOMMODATE PREVAILING CROSS DRAINAGE

② STA. 'P' 63+890 TO STA. 'P' 64+730 AND STA. 'P' 64+920 TO STA. 'P' 65+440 DELETE 300mm SELECTED MATERIAL, TYPE A REQUIREMENT. SHAPE THE EXISTING HIGHWAY AND RAILROAD AGGREGATE IN PLACE OF SELECTED MATERIAL, TYPE A.

③ STA. 'P' 60+660 TO STA. 'P' 60+820, 1.2 m LT. AND RT.
STA. 'P' 62+610 TO STA. 'P' 63+840, 1.2 m LT. AND RT.

④ STA. 'P' 62+740 TO STA. 'P' 62+780, RT.
STA. 'P' 63+200 TO STA. 'P' 63+440, RT., INSTALL 1.5 SQ. m LAND SOD BLOCKS 1.5 m GAPS BETWEEN BLOCKS AT TOE OF EMBANKMENT.
STA. 'P' 63+880 TO STA. 'P' 64+240, RT.
1:3 EXCAVATE OLD ROADWAY TO 0.3 m BELOW ELEVATION OF ADJACENT WETLANDS.

⑤ STA. 'P' 65+020 TO STA. 'P' 65+200, LT.
STA. 'P' 65+470 TO STA. 'P' 65+550, LT.
EXCAVATE EXISTING GROUND BETWEEN PATHWAY AND RAILROAD AS DIRECTED BY THE ENGINEER.

PATH SLOPE EXCEPTION TABLE

STATION TO STATION	OFFSET	SLOPE CUT	SLOPE FILL	REMARKS
'P' 62+050 TO 'P' 62+630	RT.	1:0.5		SEE ROCK CUT TYPICAL, SHEET B7
'P' 62+080 TO 'P' 62+280	LT.	1:0.5		SEE ROCK CUT TYPICAL, SHEET B7
'P' 64+680 TO 'P' 64+765	LT.	1:2		*3 m WIDE BY 0.9 m DEEP DITCH
'P' 64+767.85 TO 'P' 64+814.85	LT. & RT.			SEE PEDESTRIAN UNDERCROSSING DETAIL

* DEPTH FROM FINISHED PATH SHOULDER.

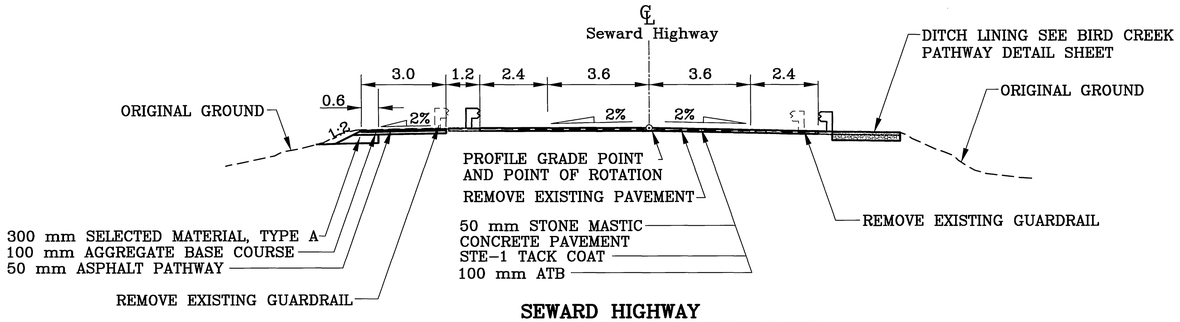
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND RECREATIONAL IMPROVEMENTS

TYPICAL SECTIONS

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD D:/SDSPROJ/23577/27BE1YP
VIEW=4
DESIGNED BY
CHECKED BY
DRAFTED BY
KMH
11-19-02

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	B4	B7

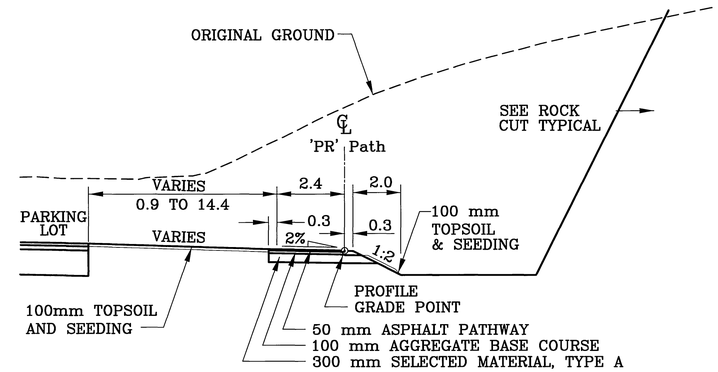


SEWARD HIGHWAY

STA. 44+495.000 TO STA. 44+650.868

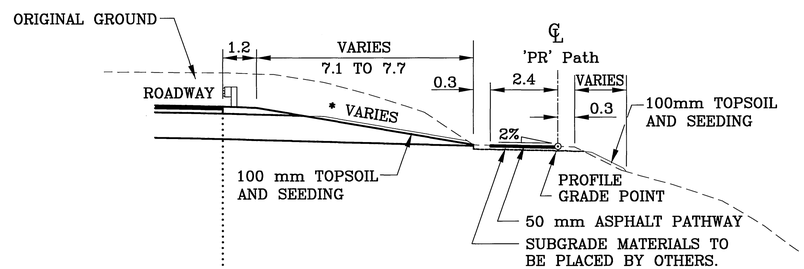
NOTE

1. FOR STA. 44+650.868 TO STA. 44+712.691 SEE "BIRD CREEK BRIDGE" GENERAL LAYOUT.



PATH

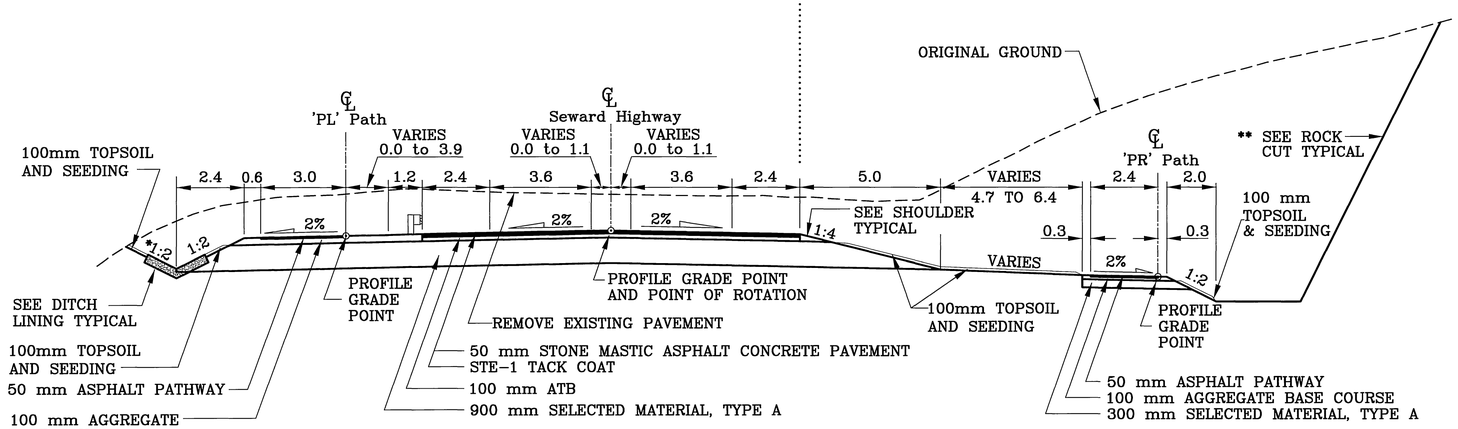
'PR' 5+190+000 TO 'PR' 5+276.348



EXISTING PATH

STA. 44+712.691 TO STA. 44+764.000

* FROM STA. 44+712.619 TO STA. 44+728, WARP SLOPE TO CATCH EDGE OF EXISTING STRUCTURE



SEWARD HIGHWAY

STA. 44+712.691 TO STA. 44+820.000

* FROM STA. 44+712.619 TO STA, 44+790, DAYLIGHT CUT SLOPE AT -2%

** FROM STA. 44+767 TO 44+776, USE A V-DITCH WITH 1:2 BACKSLOPE

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD CAROLEE D:/SDSPROJ/53577/B1B0TYP
DESIGNED BY
CHECKED BY
DRAFTED BY
CJ
11-21-02
VIEW=1

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

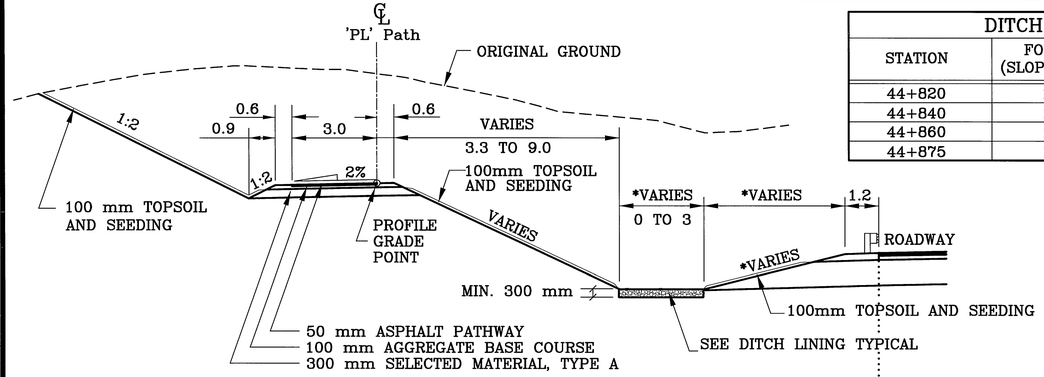
SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

TYPICAL SECTIONS

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	B5	B7

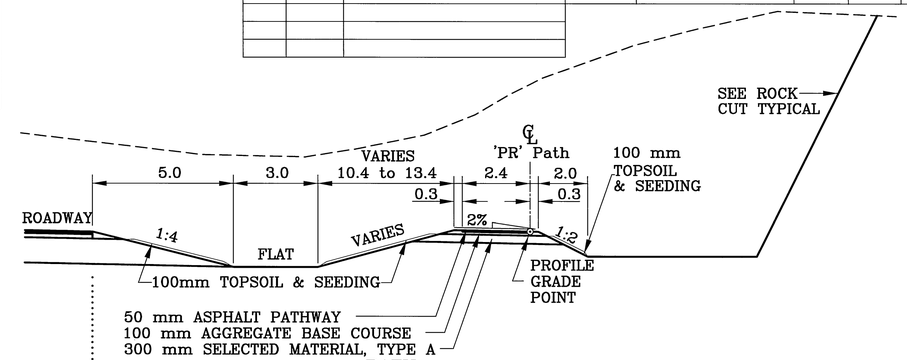
DITCH TABLE

STATION	FORESLOPE (SLOPE, LENGTH)	DITCH WIDTH (m)
44+820	1:2, 2,4	0.0
44+840	1:4, 5.0	1.8
44+860	1:4, 5.0	3.0
44+875	1:4, 5.0	3.0



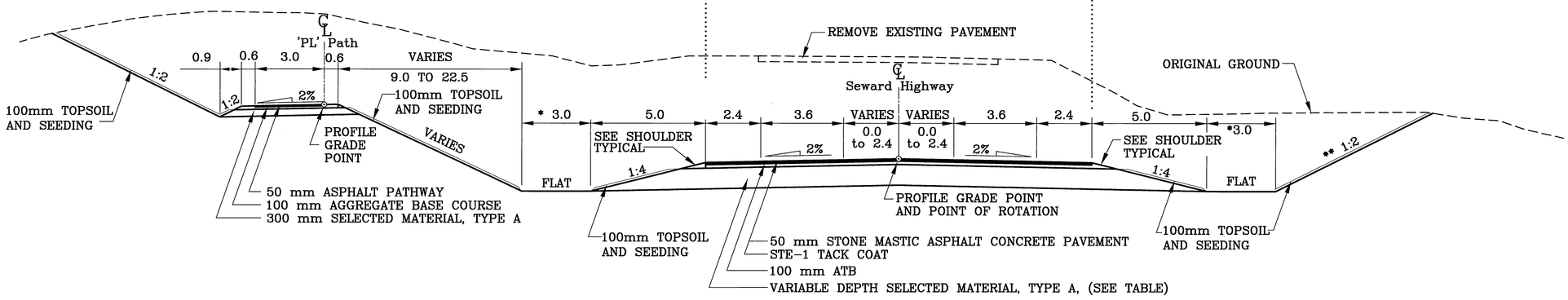
GUARDRAIL

STA. 44+820.000 TO STA. 44+875.000
*SEE DITCH TABLE



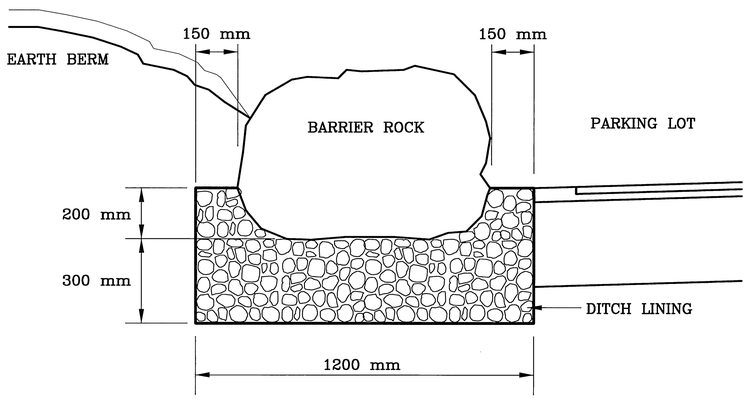
PATH

STA. 44+820.000 TO STA. 44+925.00

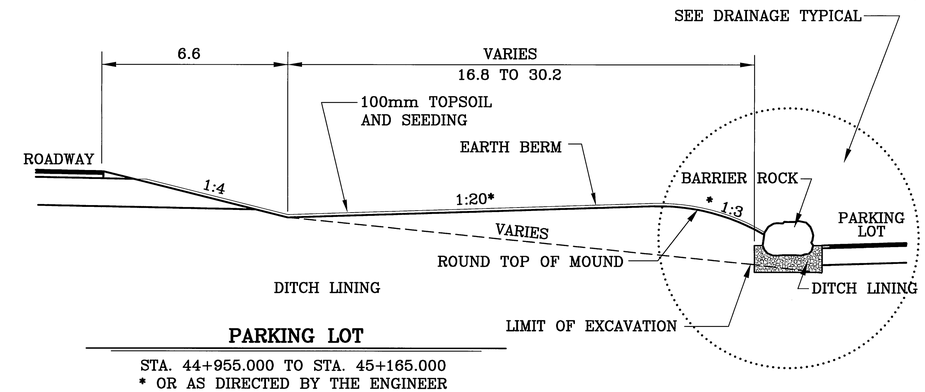


SEWARD HIGHWAY

STA. 44+820.000 TO STA. 45+580.000
* SEE DITCH LINING TYPICAL
** SEE ROCK CUT TYPICAL FOR EXCEPTIONS



DRAINAGE



PARKING LOT

STA. 44+955.000 TO STA. 45+165.000
* OR AS DIRECTED BY THE ENGINEER

TABLE OF SELECTED MATERIAL, TYPE A

STATION TO STATION	DEPTH** (mm)
44+820 TO 44+850	900
44+850 TO 44+910	600
44+910 TO 45+135	900
44+135 TO 45+390	600
45+390 TO 45+580	900

** TRANSITION 1:10 BETWEEN 600mm AND 900mm SELECTED MATERIAL, TYPE A AREAS.

STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 6823
11-26-02
REGISTERED PROFESSIONAL ENGINEER

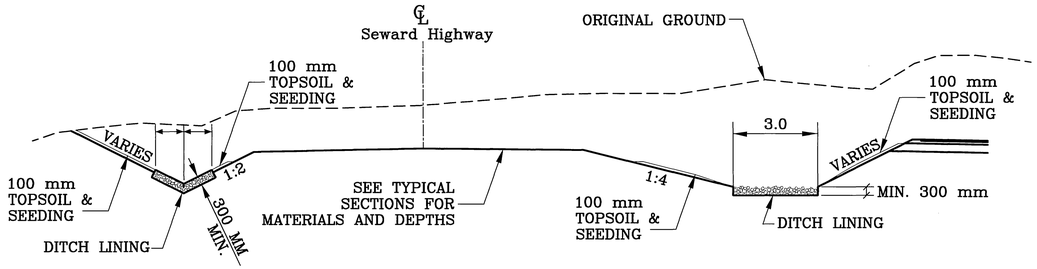
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

TYPICAL SECTIONS

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD CAROLEE D:/SSSPROJ/23577/B1B01YP
VIEW=1
DESIGNED BY
CHECKED BY
DRAFTED BY
CJ
11/21/02

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	B6	B7

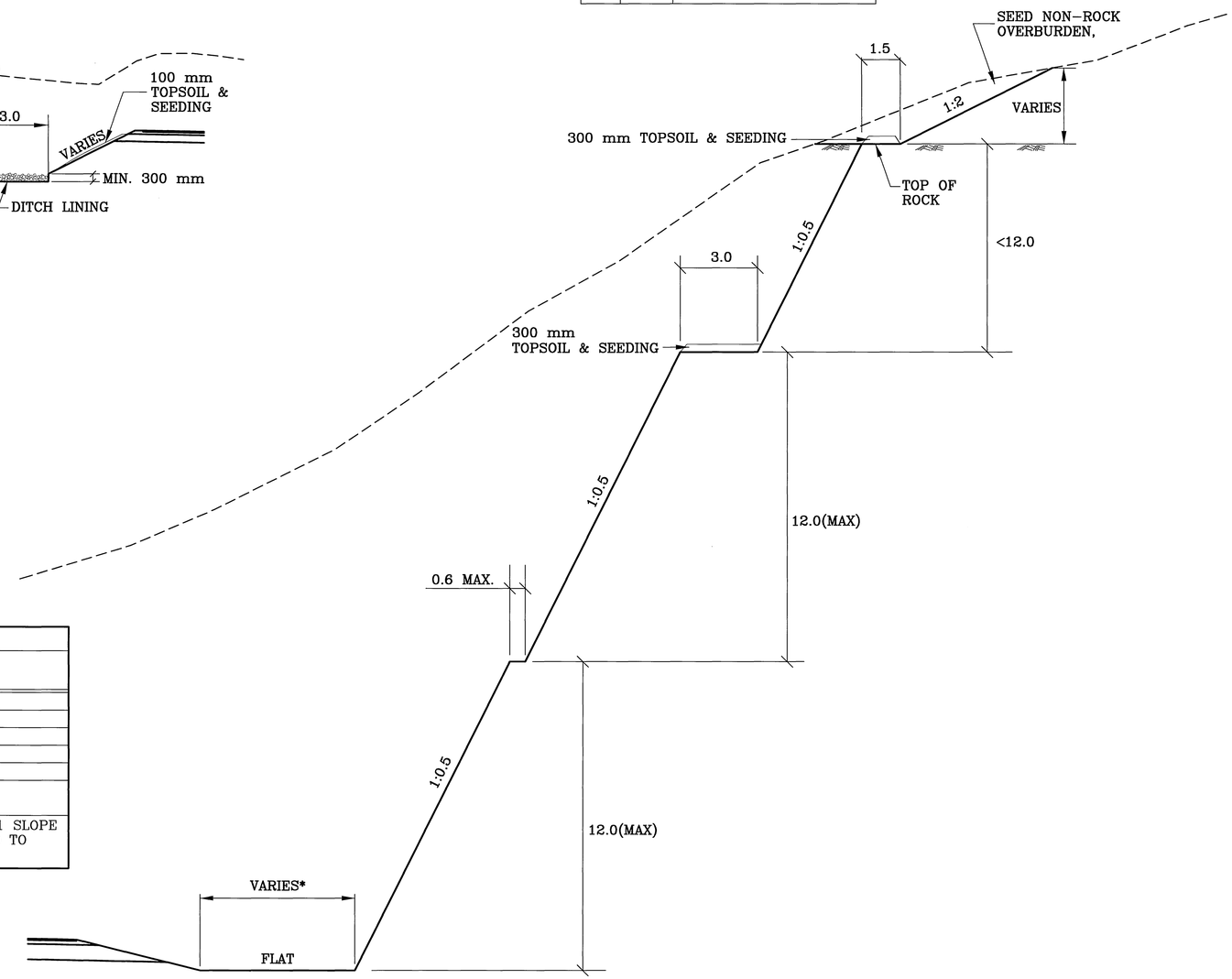


DITCH LINING

44+712.691 TO 44+875.000, LT.
44+910.000 TO 45+130.000, LT.
44+930.000 TO 44+960.000, RT.
45+050.000 TO 45+130.000, RT.
45+270.000 TO 45+580.000, LT.
45+360.000 TO 45+580.000, RT.

NOTE:
DITCH LINING TO BE PLACED IN HIGHWAY DITCHES STA. 44+712.691 TO STA. 45+580.000 THAT ARE NOT ROCK CUT.

ROCK CUT DITCH TABLE			
STATION TO STATION	OFFSET	DITCH WIDTH (m)	REMARKS
45+130 TO 45+360	RT.	3.0	
'PL' 4+150 TO 'PL' 4+250	LT.	3.0	
'PL' 4+785 TO 'PL' 4+815	LT.	3.0	
'PR' 5+048 TO 'PR' 5+135	RT.	6.0	TRANSITION FROM 6M TO 16M FROM STA. 'PR' 5+135 TO STA. 'PR' 5+170
'PR' 5+170 TO 'PR' 5+250	RT.	16.0	TRANSTION FROM 16M TO 25M AND 0.5:1 SLOPE TO 0.25:1 SLOPE FROM STA. 'PR' 5+250 TO STA. 'PR' 5+276.3



ROCK CUT

* SEE ROCK CUT DITCH TABLE

STATE OF ALASKA
JUDY J. DOUGHERTY
CE 8823
11-26-02
REGISTERED PROFESSIONAL ENGINEER

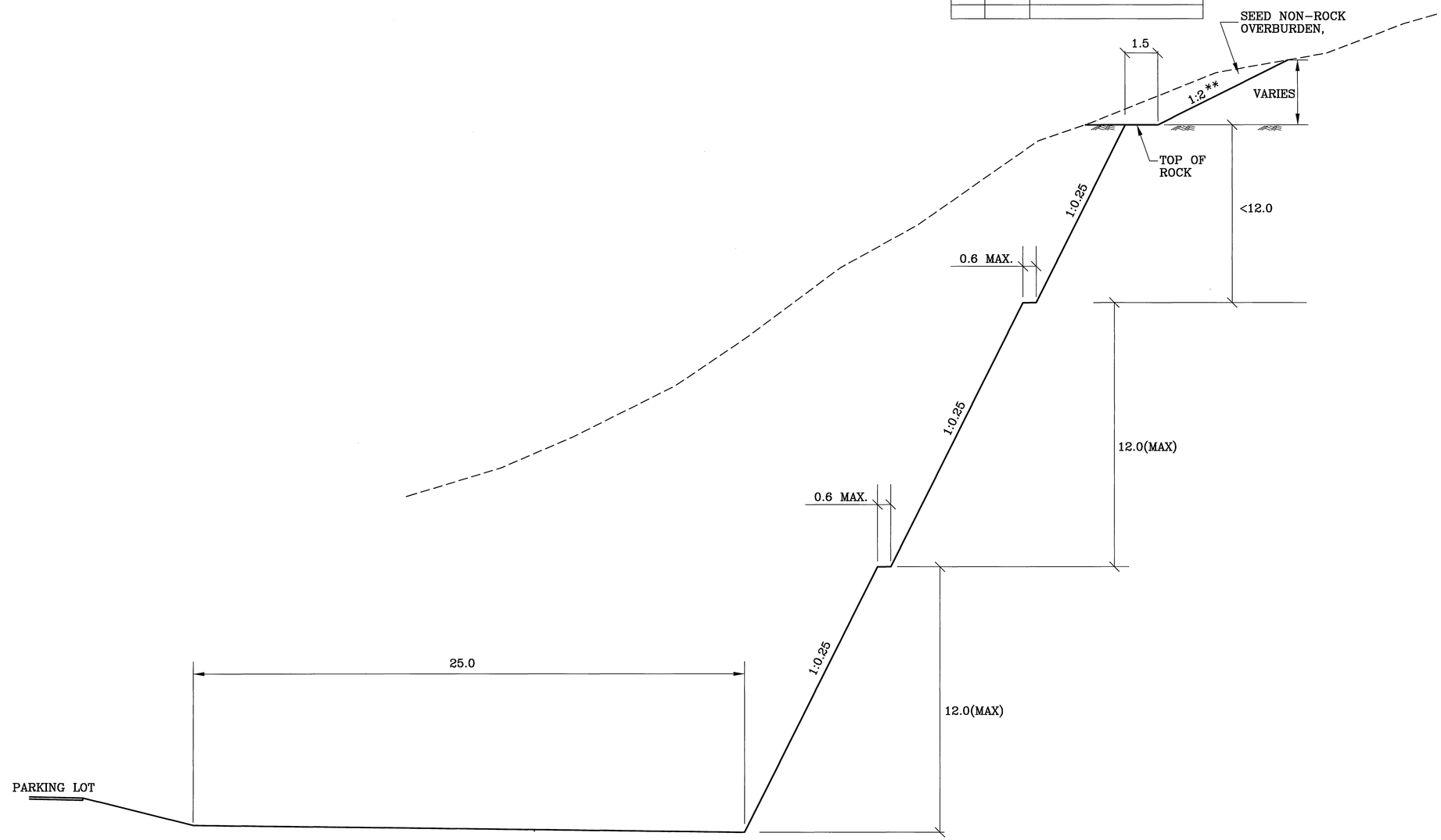
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

TYPICAL SECTIONS

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD CAROLEE D:/SDSGPROJ/53577/B1B3TYP
VIEW#
3
DESIGNED BY
CHECKED BY
DRAFTED BY
CJ
11-20-02

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	B7	B7



ROCK CUT-PARKING LOT CUT

'PK' 10+090 TO 'PK' 10+259.786 RT.

** OR AS DIRECTED BY THE ENGINEER

STATE OF ALASKA
JUDY J. DOUGHERTY
CE 8823
REGISTERED PROFESSIONAL ENGINEER
11-26-02

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

TYPICAL SECTIONS

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD CAROLEE D:/SDSKPROJ/53577/B1B07VP
VIEW#
4
DESIGNED BY
CHECKED BY
DRAFTED BY
CJ
11-20-02

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	C1	C2

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM		PAY UNIT	TOTAL QUANTITY
109(1A)	SEWARD HWY MP 94 ROCK EXCAVATION	C.O. #11	L.S.	ALL REQUIRED
201 (3A)	CLEARING AND GRUBBING		ha	11.541 ~~12.0~~
201(4)	TUB GRINDING	C.O. #11	L.S.	ALL REQUIRED
202 (1)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS		L.S.	ALL REQUIRED
202 (2)	REMOVAL OF PAVEMENT		m^2	83,140 ~~74,370~~
202 (4)	REMOVAL OF CULVERT PIPE		m	70.5 ~~285.6~~
303(2)	DETOUR BASE COURSE RECONDITION	C.O. #2	L.S.	ALL REQUIRED
~~203 (8)~~	~~UNCLASSIFIED EXCAVATION~~	DELETED BY C.O. #11	~~m^3~~	~~1,094,503~~
203(12)	DRAIN HOLES		m	119.7 ~~917~~
241 (1)	RAILROAD BALLAST		Mg	13,515.0 ~~15,120~~
242 (1)	RAILROAD TRACKWORK		m	3,140
242 (2)	TRACKWORK REMOVAL		L.S.	ALL REQUIRED
245 (1)	GRADE CROSSING		L.S.	ALL REQUIRED
242 (3)	MODIFIED RAILROAD TRACKWORK	C.O. #3	L.S.	ALL REQUIRED
301 (1)	AGGREGATE BASE COURSE		Mg	4,743.3 ~~16,677~~
306 (1)	ATB		Mg	19,700.7 ~~16,520~~
401 (1B)	ASPHALT CONCRETE, TYPE II, CLASS B		Mg	16,876.6 ~~3,145~~
401 (2)	ASPHALT CEMENT, GRADE PG 52-28		Mg	986.52 ~~173~~
401 (3)	TEMPORARY PAVEMENT		Mg	2,413.0 ~~1,343~~
401 (6)	ASPHALT PRICE ADJUSTMENT		C.S.	ALL REQUIRED
301 (1A)	AGGREGATE BASE COURSE, PATHWAY	C.O. #7	L.S.	ALL REQUIRED
402 (1)	STE-1 ASPHALT FOR TACK COAT		Mg	40.42 ~~39~~
203 (3A)	UNCLASSIFIED EXCAVATION	C.O. #11	L.S.	ALL REQUIRED
203 (13)	CRUSHING CREDIT, SELECT MATERIAL, TYPE A	C.O. #8	L.S.	ALL REQUIRED
~~407(1)~~	~~STONE MASTIC ASPHALT CONCRETE~~	DELETED BY C.O. #7	~~Mg~~	~~16,107~~
~~407(2)~~	~~ASPHALT CEMENT, GRADE PG 58-28~~	DELETED BY C.O. #7	~~Mg~~	~~1,047~~
~~407(4)~~	~~ASPHALT PRICE ADJUSTMENT~~	DELETED BY C.O. #7	~~C.S.~~	~~ALL REQUIRED~~
306(2)	ASPHALT CEMENT FOR ATB, GRADE PG 52-28	C.O. #8	Mg	91.80
306(6)	ATB PRICE ADJUSTMENT	C.O. #8	C.S.	ALL REQUIRED
501(1)	CLASS A CONCRETE		L.S.	ALL REQUIRED
109 (3A)	RE-CUT COMMON SLOPES	C.O. #11	L.S.	ALL REQUIRED
504(1)	STRUCTURAL STEEL		L.S.	ALL REQUIRED
109 (5A)	SOIL NAILS & SHOTCRETE AT COMMON GUT	C.O. #11	L.S.	ALL REQUIRED
109(4)	DUAL PASSING LANE MODIFICATIONS	C.O. #6	L.S.	ALL REQUIRED
507 (1)	STEEL BRIDGE RAILING		m	124
507 (2)	PEDESTRIAN RAILING		m	62
109 (6)	VACUUM GUARDRAIL POST HOLES	C.O. #8	L.S.	ALL REQUIRED
508(1)	WATERPROOFING MEMBRANE		L.S.	ALL REQUIRED
109 (7)	REINSTALL PEDESTRIAN SIGN	C.O. #9	L.S.	ALL REQUIRED
602 (2)	STRUCTURAL PLATE PIPE-ARCH SPAN 4216, RISE 3708, THICKNESS 2.77 mm		m	47
109 (21)	DIFFERING SITE CONDITION, OLD BRIDGE REMOVAL	C.O. #7	L.S.	ALL REQUIRED
109(22)	RAPTOR OBSERVER	C.O. #8	L.S.	ALL REQUIRED
603 (9-1000)	1000 mm CORRUGATED ALUMINUM PIPE		m	194.05 ~~192.5~~
603 (9-1500)	1500 mm CORRUGATED ALUMINUM PIPE		m	136.2
603 (11-1000)	END SECTION FOR 1000 mm CORRUGATED ALUMINUM PIPE		EACH	6
109 (23)	PEDESTRIAN BRIDGE ABUTMENT, SIDEWALK & RIPRAP REPAIRS	C.O. #7	L.S.	ALL REQUIRED
603 (17-450)	450 mm PIPE		m	122.29 ~~55.5~~
603 (17-600)	600 mm PIPE		m	327.33 ~~192.5~~
603 (17-900)	900 mm PIPE		m	149.39 ~~84.8~~
109 (23A)	BRIDGE DECK PATCHES	C.O. #9	L.S.	ALL REQUIRED
603 (20-600)	END SECTION FOR 600 mm PIPE		EACH	42 ~~53~~
603 (20-900)	END SECTION FOR 900 mm PIPE		EACH	12 ~~11~~
109 (24)	LITTLE PENQUIN CREEK PARKING LOT	C.O. #10	L.S.	ALL REQUIRED
109 (25)	INTERPRETIVE KIOSK PAD PAVING	C.O. #10	L.S.	ALL REQUIRED

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM		PAY UNIT	TOTAL QUANTITY
603(17-900A)	SPECIAL 900 mm PIPE	C.O. #7	L.S.	ALL REQUIRED
604 (5)	INLET, TYPE A		EACH	2
604(5A)	MODIFIED TYPE II MANHOLE	C.O. #9	L.S.	ALL REQUIRED
606(20)	W-BEAM GUARDRAIL W/EXISTING WOOD POSTS	C.O. #9	m	139.0
606 (1)	W-BEAM GUARDRAIL		m	2,162.7 ~~3,960.1~~
606 (6)	REMOVING AND DISPOSING OF GUARDRAIL		m	1,685.0 ~~3,673~~
606 (11)	EXTRUDER TERMINAL (ET-2000)		EACH	21 ~~23~~
606 (12)	GUARDRAIL/BRIDGE RAIL CONNECTION		EACH	4
607(3)	CHAINLINK FENCE	C.O. #10	m	567.0
607(9)	PATHWAY BOLLARD POSTS	C.O. #10	EACH	11
615(4A)	ADDITIONAL RIGID DELINEATORS	C.O. #10	L.S.	ALL REQUIRED
608 (7)	ASPHALT PATHWAY		Mg	2,910.6 ~~2,576~~
618 (5)	ADDED WILDFLOWERS	C.O. #9	Kg	102.14
610 (2)	DITCH LINING		Mg	805.5 ~~1,800~~
611 (2)	RIPRAP, CLASS I		Mg	47.6 ~~450~~
611 (2A)	RIPRAP, CLASS II		Mg	80,621 ~~51,932~~
611 (2B)	RIPRAP, R750		Mg	66,066 ~~94,843~~
630(1)	GEOTEXTILE, SEPARATION	C.O. #10	m^2	3,666
615 (1)	STANDARD SIGN		m^2	73.36 ~~57.8~~
615 (2)	REMOVE AND RELOCATE EXISTING SIGN		EACH	10 ~~12~~
615 (4)	DELINEATOR, RIGID		EACH	165 ~~202~~
642(13)	PROVIDE CROSS SECTIONS & QUANTITY CALCULATIONS	C.O. #2	L.S.	ALL REQUIRED
680(10A)	FURNISH & INSTALL SINGLE INNERDUCT, PLOWED	C.O. #4	m	2,912.82
618 (2)	SEEDING		kg	1,203.29 ~~725~~
618 (3)	WATER FOR SEEDING		kL	23,251 ~~6,055~~
680(6C)	MODIFICATIONS TO GCI VAULT #1	C.O. #5	L.S.	ALL REQUIRED
620 (1)	TOPSOIL		m^2	201,791 ~~144,050~~
680(11A)	FURNISH & INSTALL TWO INNERDUCT, PLOWED	C.O. #2	m	1,980.37
621 (1A)	TREE, WHITE SPRUCE		EACH	58 ~~40~~
621 (2J)	SHRUB, PRICKLY ROSE		EACH	69 ~~84~~
680(12A)	FURNISH & INSTALL THREE INNERDUCTS	C.O. #4	m	410.60
623 (5)	VEGETATED MATS, INSTALLED		m^2	162.0 ~~157~~
623 (6)	WETLAND SOD BLOCK, INSTALLED		m^2	107.2 ~~106~~
631 (2)	GEOTEXTILE, EROSION CONTROL, CLASS I		m^2	0 ~~647~~
680 (20)	ALASKA FIBER STAR CABLE PULLING ASSISTANCE	C.O. #8	L.S.	ALL REQUIRED
639 (6)	APPROACH		EACH	27 ~~26~~
640 (1)	MOBILIZATION AND DEMOBILIZATION		L.S.	ALL REQUIRED
109(2A)	CUT #6 SLIDE REPAIR, MATERIAL HAUL OFF, TRUCKS	S.A. #1	CMVM	18,010

STATE OF ALASKA
JUDY J. DOUGHERTY
CE 8823
11-26-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

ESTIMATE OF QUANTITIES

DESIGNED BY	
CHECKED BY	
DRAFTED BY	KMH
VIEW: 1 of 1	11-26-02
SPECIFICATIONS	
SCALE 1=1	
COMPUTER DESIGNATION	AUTOCAD-14(REV-D)\S595PROJ\S595^X\DATA\77ESTM.DWG

TEMP-CAROLEE-D:\SDSKPROJ\53577\77ESTM.DWG

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	C2	C2

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	PAY UNIT	TOTAL QUANTITY
641 (1)	EROSION AND POLLUTION CONTROL ADMINISTRATION	L.S.	ALL REQUIRED
641 (2)	TEMPORARY EROSION AND POLLUTION CONTROL	C.S.	ALL REQUIRED
641 (5)	SILT FENCE	m	1,711.19 ~~885~~
641 (6)	STRAW BALE	m	151.92 ~~63~~
642 (1)	CONSTRUCTION SURVEYING	L.S.	ALL REQUIRED
642 (3)	THREE PERSON SURVEY PARTY	HOUR	102.71 ~~60~~
642 (4)	SET PRIMARY MONUMENT	EACH	22 ~~17~~
642 (8)	ADJUST EXISTING MONUMENT	EACH	0 ~~29~~
642 (9)	REFERENCE EXISTING MONUMENT	EACH	35 ~~39~~
642 (10)	MONUMENT CASE	EACH	27 ~~39~~
642 (12)	FINAL TRAVERSE	L.S.	ALL REQUIRED
642 (17)	SUPPLY AND SET RAILROAD CURVE TAB	L.S.	ALL REQUIRED
643 (2)	TRAFFIC MAINTENANCE	L.S.	ALL REQUIRED
643 (3)	PERMANENT CONSTRUCTION SIGNS	L.S.	ALL REQUIRED
643 (15)	FLAGGING	C.S.	ALL REQUIRED
643 (23)	TRAFFIC PRICE ADJUSTMENT	C.S.	ALL REQUIRED
643 (25)	TRAFFIC CONTROL	C.S.	ALL REQUIRED
644 (1)	FIELD OFFICE	L.S.	ALL REQUIRED
~~644 (2)~~	~~FIELD LABORATORY~~ DELETED BY C.O. #1	~~L.S.~~	~~ALL REQUIRED~~
645 (1)	TRAINING PROGRAM, 3 TRAINEES/APPRENTICES	L.H.	3,679 ~~1,500~~
646 (1)	CPM SCHEDULING	L.S.	ALL REQUIRED
647 (1)	WIDE PAD DOZER, 48 KW MINIMUM	C.S.	ALL REQUIRED
650 (8)	SINGLE ENTRANCE GATE	EACH	3
650 (8A)	RELOCATE SINGLE ENTRANCE GATE	EACH	1
650 (9)	DOUBLE ENTRANCE GATE	EACH	6 ~~4~~
650 (17)	CONCRETE PARKING BUMPER	EACH	78
650 (18)	PARKING BUMPER	EACH	24
650 (21)	BARRIER ROCK	EACH	507 ~~285~~
650 (30B)	INTERPRETIVE KIOSK, TYPE B	EACH	1
650 (38)	ENTRANCE SIGN	EACH	1
650 (45)	DOUBLE TOILET SCREEN	EACH	2
660 (12)	UNDERPASS LIGHTING SYSTEM COMPLETE	L.S.	ALL REQUIRED
661 (3)	LOAD CENTER, TYPE 2	EACH	1
670 (10B)	METHYL METHACRYLATE PAVEMENT MARKINGS	LITER	8,204.4 ~~8,172~~
680(6)	FURNISH AND INSTALL TELEPHONE HANDHOLE AND/OR VAULT	EACH	14
680(6A)	FURNISH TELEPHONE HANDHOLE	EACH	1

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	PAY UNIT	TOTAL QUANTITY
680(6B)	INSTALL TELEPHONE VAULT	EACH	4 ~~5~~
680(9)	TELEPHONE SYSTEM AS-BUILTS	L.S.	ALL REQUIRED
680(10)	FURNISH AND INSTALL SINGLE INNERDUCT	m	35.0 ~~3,451~~
680(11)	FURNISH AND INSTALL TWO INNERDUCTS	m	2,450.63 ~~4,839~~
680(12)	INSTALL THREE INNERDUCTS	m	61.70 ~~53.58~~
680(13)	FURNISH TWO AND INSTALL FIVE INNERDUCTS	m	2,551.50 ~~2554.6~~
680(14)	INSTALL TWO CONDUITS	m	11.25 ~~12~~
680(15)	INSTALL 2 CONDUITS, 3 INNERDUCTS, FURNISH AND INSTALL 2 INNERDUCTS	m	0 ~~45~~
680(16)	INSTALL 2 CONDUITS AND 3 INNERDUCTS CONCRETE ENCASED	m	900.69 ~~902.18~~
680(17)	INSTALL FIBER OPTIC CABLE	m	3,366.2 ~~3436.1~~

TABLE OF ESTIMATING FACTORS

ITEM NO.	ITEM DESCRIPTION	ESTIMATING FACTOR
241(1)	RAILROAD BALLAST	2.371 Mg/m
301(1)	AGGREGATE BASE COURSE	2.371 Mg/m^3
306(1)	ATB	2.40 Mg/m^3
401(1B)	ASPHALT CONCRETE, TYPE II, CLASS B	2.43 Mg/m^3
401(2)	ASPHALT CEMENT PG 52-28	5.5% of Total Weight of 401(1B)
401(3)	TEMPORARY ASPHALT	2.43 Mg/m^3
402(1)	STE-1 ASPHALT FOR TACK COAT	0.000343 Mg/m^2
407(1)	STONE MASTIC ASPHALT CONCRETE	2.40 Mg/m^3
407(2)	ASPHALT CEMENT, GRADE PG 58-28	6.5% of Total Weight of 407(1)
608(7)	ASPHALT PATHWAY	2.430 Mg/m^3
610(2)	DITCH LINING	1.72 Mg/m^3
611(2)	RIPRAP, CLASS I	1.72 Mg/m^3
611(2A)	RIPRAP, CLASS II	1.72 Mg/m^3
611(2B)	RIPRAP, R750	1.72 Mg/m^3
618(2)	SEEDING	50 kg/ha^3
618(3)	WATER FOR SEEDING	8.345 kl water/kg seed

STATE OF ALASKA
JUDY J. DOUGHERTY
CE 8823
11-26-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

ESTIMATE OF QUANTITIES

TEMP-CAROLEE-D:\SDSKPROJ\53577\77ESTM.DWG
AUTOCAD-A2000-D:\SDSKPROJ\53577\DATA\77ESTM.DWG
SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
VIEW= 1 of 1
DESIGNED BY
CHECKED BY
DRAFTED BY
KMH
11-26-02

EARTHWORK SUMMARY

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	D1	D9

SHEET	STATION TO STATION	ESTIMATED EXCAVATION						ESTIMATED EMBANKMENT							
		COMMON EXCAVATION (UNUSEABLE) CM	COMMON EXCAVATION (USEABLE) CM	ROCK EXCAVATION CM	203(3) UNCLASSIFIED EXCAVATION CM	*SHRUNK COMMON EXCAVATION (USEABLE) CM	**SWELLED ROCK EXCAVATION CM	241(1) RAILROAD BALLAST CM	***SHOT ROCK CM	611(2) RIPRAP, CLASS I CM	611(2A) RIPRAP, CLASS II CM	611(2B) RIPRAP, R750 CM	SELECTED MATERIAL, TYPE C CM	SELECTED MATERIAL, TYPE A CM	TOTAL EMBANKMENT CM
F1	37+100 TO 37+280	170	2,962		3,132	2,665									
F2	37+280 TO 37+580	443	5,212		5,655	4,691									
F3	37+580 TO 37+880	846	5,554	6,172	12,572	4,999	6,789							1,078	1,078
F4	37+880 TO 38+180	1,628	5,700	5,968	13,296	5,130	6,565							2,930	2,930
F5	38+180 TO 38+480	416	932	576	1,924	839	634						4,976	5,544	10,520
F6	38+480 TO 38+790												17,838	6,336	24,174
F7	38+790 TO 39+100		574		574	517							12,983	6,336	19,319
F8	39+100 TO 39+400		2,636		2,636	2,372							7,946	5,544	13,490
F9	39+400 TO 39+700	974	2,550		3,524	2,295							7,544	6,336	13,880
F10	39+700 TO 40+000	686	2,360		3,046	2,124							6,716	5,544	12,260
F11	40+000 TO 40+300	968	1,936		2,904	1,742							9,546	6,142	15,688
F12	40+300 TO 40+600		820		820	738							20,049	4,485	24,534
F13	40+600 TO 40+905.6		4,546		4,546	4,091								984	984
FP1 TO FP7	'P' 60+000 TO 'P' 62+040	4,918			4,918								11,567	3,564	15,131
FP7 TO FP8	'P' 62+040 TO 'P' 62+296(BK)			20,437	20,437		22,481						43	371	414
FP8 TO FP9	'P' 62+589(AD) TO 'P' 62+800			2,215	2,215		2,437						4,909	412	5,321
FP9 TO FP11	'P' 62+800 TO 'P'63+460	5,023	28,468		33,491	25,621							20,237	1,330	21,567
FP11 TO FP12	'P' 63+460 TO 'P' 63+880	24			24								3,292	805	4,097
FP12 TO FP14	'P' 63+880 TO 'P' 64+240	2,720	15,414		18,134	13,873							117	494	611
FP14 TO FP18	'P' 64+240 TO 'P' 65+575	2,217			2,217								6,358	1,867	8,225
FR1	R' 2+000 TO 'R' 2+240	162			162			487	12,231		1,767	1,865			16,350
FR2	R' 2+240 TO 'R' 2+540							609	42,211		3,029	2,354			48,203
FR3	R' 2+540 TO 'R' 2+840							609	62,128		3,045	3,734			69,516

UNCLASSIFIED EXCAVATION = COMMON EXCAVATION (UNUSEABLE) + COMMON EXCAVATION (USEABLE) + ROCK EXCAVATION

* ESTIMATED SHRUNK COMMON EXCAVATION (USEABLE) = 0.90 X COMMON EXCAVATION(USEABLE)

** SWELLED ROCK EXCAVATION = 1.10 X ROCK EXCAVATION

*** SHOT ROCK EMBANKMENT = 1.15 X NEAT LINE VOLUME OF SHOT ROCK

TOTAL EMBANKMENT = RAILROAD BALLAST + SHOT ROCK + RIPRAP, CLASS I + RIPRAP, CLASS II + RIPRAP, R750 + SELECTED MATERIAL, TYPE C + SELECTED MATERIAL, TYPE A

STATE OF ALASKA
JUDY J. DOUGHERTY
CE 8823
11-26-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

SUMMARY TABLES

DESIGNED BY 11-21-02
CHECKED BY
DRAFTED BY 6/12/02
VIEW= D1
SPECIFICATIONS
SCALE 1=1
COMPUTER RESIGNATION
AUTOCAD-AKREN-D:\SBSBPROJ\53977\DATA\77SUM.DWG
TEMP-CAROLEE-D:\SDSKPROJ\53977\77SUM.DWG

EARTHWORK SUMMARY

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	D2	D9

SHEET	STATION TO STATION	ESTIMATED EXCAVATION						ESTIMATED EMBANKMENT							
		COMMON EXCAVATION (UNUSEABLE) CM	COMMON EXCAVATION (USEABLE) CM	ROCK EXCAVATION CM	203(3) UNCLASSIFIED EXCAVATION CM	*SHRUNK COMMON EXCAVATION (USEABLE) CM	**SWELLED ROCK EXCAVATION CM	241(1) RAILROAD BALLAST CM	***SHOT ROCK CM	611(2) RIPRAP, CLASS I CM	611(2A) RIPRAP, CLASS II CM	611(2B) RIPRAP, R750 CM	SELECTED MATERIAL, TYPE C CM	SELECTED MATERIAL, TYPE A CM	TOTAL EMBANKMENT CM
FR4	R' 2+840 TO 'R' 3+140							609	86,651		3,045	6,157			96,462
FR5	R' 3+140 TO 'R' 3+440							609	91,743		3,045	7,368			102,765
FR6	R' 3+440 TO 'R' 3+740							609	112,629		3,045	8,894			125,177
FR7	R' 3+740 TO 'R' 4+040							609	93,198		3,045	6,863			103,715
FR8	R' 4+040 TO 'R' 4+340							609	113,471		3,045	8,388			125,513
FR9	R' 4+340 TO 'R' 4+640	2,527			2,527			609	80,597		3,045	5,598			89,849
FR10	R' 4+640 TO 'R' 4+940	183			183			609	28,491		2,538	2,988			34,626
FR11	R' 4+940 TO 'R' 5+140	2,557			2,557			409	4,446		1,269	654			6,778
LEFT PATHWAY QUANTITIES ARE INCLUDED WITH SEWARD HIGHWAY QUANTITIES STA. 44+495 TO STA. 45+580.															
FCR1	44+495 TO 44+820	51	5,773	1,068	6,892	5,196	1,175						33	2,312	2,345
FCR2	44+820 TO 45+120	1,525	79,497	48,818	129,840	71,547	53,700						3,608	6,062	9,670
FCR3	45+120 TO 45+420	1,815	45,850	17,432	65,097	41,265	19,175						1,245	5,129	6,374
FCR4	45+420 TO 45+580	113	10,642		10,755	9,577							42	2,836	2,878
FPK1	'PK' 10+000 TO 'PK' 10+259.8	5,981	12,168	562,655	580,804	10,951	618,921							5,144	5,144
FPR1	'PR' 5+000 TO 'PR' 5+276.4	1,257		138,364	139,621		152,200							247	247
	SERVICE ROAD	2,000	3,000	15,000	20,000	2,700	16,500						100	225	325
	DOWNDRAINS									262					262
	ARTILLERY PAD										275	279		699	1,253
	SUBTOTAL:	39,204 CM	236,594 CM	818,705 CM	1,094,503 CM	212,934 CM	900,576 CM	6,377 CM	727,796 CM	262 CM	30,193 CM	55,142 CM	139,149 CM	82,756 CM	1,041,675 CM
	LESS EXCAVATION								727,796 CM				139,149 CM	82,756 CM	
	TOTAL:	39,204 CM	236,594 CM	818,705 CM	1,094,503 CM	212,934 CM	900,576 CM	6,377 CM		262 CM	30,193 CM	55,142 CM			
	PAY ITEM QUANTITY:				1,094,503 CM			15,120 Mg		450 Mg	51,932 Mg	94,844 Mg			

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

SUMMARY TABLES

STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
11-26-02
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY 11-21-02
CHECKED BY
DRAFTED BY 6/12/02
VIEW: D2
SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
TEMP-CAROLEE-D:\SDSKPROJ\53577\77SUM.DWG
AUTOCAD-CAROLEE-D:\SDSKPROJ\53577\DATA\77SUM.DWG

REVISIONS		
No.	DATE	DESCRIPTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0A3-1(28)	2002	D3	D9

PIPE INSTALLATION SUMMARY

SHEET	STATION	OFFSET	202(4) REMOVAL LENGTH	SKEW	602(2) STRUCTURAL PLATE PIPE ARCH (m)	603(17-450) 450mm PIPE (m)	603(17-600) 600mm PIPE (m)	603(17-900) 900mm PIPE (m)	603(9-1000) 1000mm CAP (m)	603(9-1500) 1500mm CAP (m)	603(20-600) END SECTION FOR 600mm PIPE(EACH)	603(20-900) END SECTION FOR 900mm PIPE(EACH)	603(11-1000) END SECTION FOR 1000mm CAP(EACH)	INLET ELEVATION	INLET OFFSET	OUTLET OFFSET	OUTLET ELEVATION	% GRADE	REMARKS
	DET 3+460		6.1																
	CUT 6 42+92	C.L.					4.3												
~~F4~~	~~37+964.5~~	~~C.L.~~	~~26.2~~ 0				~~89.0~~				~~1~~			~~5.78~~	~~19.0 RT~~	~~10.0 LT~~	~~4.26~~	~~5.24~~	DELETED
	CUT6 44+30	C.L.					3.6												
F5	38+432.0	C.L.							86.4 ~~84.5~~				1	~~7.25~~	40.2 RT.	44.3 LT.	~~4.11~~	~~3.72~~	END SECTION ON INLET END, SEE NOTE 3.
F5	38+436.0	RT.	~~21.8~~ 0																
F5	38+438.0	RT.	~~17.0~~ 0																
	CUT6 36+92	C.L.					10.36												
F7	39+001.0	RT.	~~47.5~~ 0																
F7	39+007.0	C.L.								61.0 ~~67.2~~				~~3.67~~	28.0 RT.	39.2 LT.	~~3.24~~	~~0.64~~	SEE NOTE 1, 2, AND 3.
F8	39+158.5	RT.	~~45.2~~ 0																
	CUT 6 38+30	C.L.					10.36												
F10	39+840.0	C.L.								43.0 ~~69.0~~				2.80	26.7 RT.	42.3 LT.	1.61	1.17	SEE NOTE 1, 2, AND 3.
F10	39+845.0	RT.	~~43.5~~ 0																
	CUT 6 32+00	C.L.					10.36												
F12	40+464.3	C.L		41°33'20"RT.	47.0														SEE STRUCTURAL PLATE PIPE -ARCH DETAILS
	CUT 6 8+14	C.L.					6.5												
F13	40+651.0	C.L.										~~1~~		17.31	9.0 RT.	11.5 LT.	16.90	2.00	~~END SECTION ON INLET~~
F13	40+722.0	LT.	~~4.0~~ 0								2								~~CUT EXISTING PIPE~~ & INSTALL END SECTIONS AS DIRECTED BY
	CUT6 9+55	C.L.					14.6												THE ENGINEER.
F13	40+774.0	LT.	~~4.0~~ 0								2								~~CUT EXISTING PIPE~~ & INSTALL END SECTIONS AS DIRECTED BY
	CUT6 22+18	C.L.					7.9												THE ENGINEER.
F13	40+822.5	LT.	~~18.0~~ 0											20.20			20.34	2.00	APPROACH
	CUT6 11+64	C.L.					17.1												ADDED
FP2	'P' 60+~~580.0~~ 591.0	C.L.					~~8.0~~	10.0			~~2~~	2		12.03~~10.98~~	5.3 RT.	2.7 LT.	11.56 ~~10.78~~	1.75	CHANGED TO 900mm
FP4	'P' 60+947.0	C.L.					~~6.0~~ 7.0				2			13.60	4.3 RT.	1.7 LT.	13.30	5.00	
	'P' 61+29.80	C.L.					12.2				2			12.45			11.72	5.98	ADDED
FP4	'P' 61+010.0	C.L.					~~5.4~~ 15.0				2			12.00	4.2 RT.	1.2 LT.	11.90	1.85	RIPRAP INLET & OUTLET ENDS
	CUT6 36+36	C.L.						12.19											
FP5	'P' 61+2~~61.5~~ 58.3	C.L.					~~6.9~~ 6.95				2			12.00	4.4 RT.	1.9 LT.	11.70	4.76	
	CUT6 19+25	C.L.						17.37											
~~FP5~~	~~'P' 61+276.0~~	~~C.L.~~					~~6.2~~ 0				~~2~~ 0			~~12.25~~	~~4.5 RT.~~	~~1.7 LT.~~	~~12.00~~	~~4.03~~	DELETED
FP5	'P' 61+285.5	C.L.					~~5.5~~	6.9			~~2~~ 0	2		12.65	4.1 RT.	1.4 LT.	12.55	1.82	
	CUT6 15+19	C.L.						17.1											
FP5	'P' 61+~~349.0~~	C.L.	+353.3				10.50 ~~6.0~~				2			12.70~~12.95~~	4.1 RT.	1.9 LT.	11.51 ~~12.05~~	11.30 ~~5.00~~	RIPRAP OUTLET END
FP5	'P' 61+~~450.0~~	C.L.	+458.0				11.05 ~~6.8~~				2			12.06~~12.50~~	4.6 RT.	2.2 LT.	11.53 ~~12.16~~	4.8 ~~5.00~~	RIPRAP OUTLET END
FP5	'P' 61+~~471.5~~	C.L.	+466.4				10.10 ~~6.0~~				2			11.71 ~~12.05~~	4.5 RT.	2.1 LT.	10.43 ~~12.02~~	12.7 ~~5.00~~	RIPRAP OUTLET END
FP5	~~'P' 61+492.0~~	C.L.					~~6.7~~				~~2~~			12.10	4.5 RT.	2.2 LT.	11.76	5.00	RIPRAP OUTLET END
	CUT 6 26+73	C.L.						3.65											
FP6	~~'P' 61+529.0~~	C.L.					~~6.0~~				~~2~~			13.25	4.2 RT.	2.1 LT.	12.94	5.00	RIPRAP OUTLET END
FP6	'P' 61+~~541.0~~	C.L.	+561.0				13.07 ~~8.0~~				2			14.46~~13.10~~	5.4 RT.	3.4 LT.	12.57~~12.66~~	14.5 ~~5.00~~	RIPRAP OUTLET END
FP6	~~'P' 61+584.0~~	C.L.					~~6.7~~				~~2~~			15.50	4.6 RT.	2.1 LT.	15.17	5.00	RIPRAP OUTLET END
FP6	'P' 61+596.0	C.L.					15.0 ~~5.9~~				2			15.56~~10.05~~	4.1 RT.	1.8 LT.	13.04~~15.76~~	16.8 ~~5.00~~	RIPRAP OUTLET END
	37+246.0	C.L.						24.40				2		6.14			5.07		

NOTE 1: ANADROMOUS STREAM PIPE. MAINTAIN EXISTING INVERT ELEVATIONS.

NOTE 2: EXCAVATE INLET TO 0.5 METERS BELOW INVERT ELEVATION OR AS DIRECTED BY THE ENGINEER FOR 10 METERS MINIMUM UP STATION AND DOWN STATION OF PIPE LOCATION IN ORDER TO EXPAND FISH HABITIAT AREA ON INLET SIDE OF PIPE.

NOTE 3: ALL 1000 mm AND 1500 mm CORRUGATED ALUMINUM PIPE SHALL HAVE A THICKNESS OF 2.67 mm.

NOTE 4: WATER IMPOUND AREA. MAINTAIN DESIGN INVERT ELEVATIONS.

STATE OF ALASKA
JUDY J. DOUGHERTY
CE 8823
11-26-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

SUMMARY TABLES

DESIGNED BY
CHECKED BY
DRAFTED BY
11-21-02
VIEW: D3
AUTOCAD-KAREN-D:\SRSRCPROJ\S597\DATA\VPSUM.DWG 9-20-01 11:28:18 am BST
SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	D4	D9

PIPE INSTALLATION SUMMARY

SHEET	STATION	OFFSET	202(4) REMOVAL LENGTH	SKEW	602(2) STRUCTURAL PLATE PIPE ARCH (m)	603(17-450) 450mm PIPE (m)	603(17-600) 600mm PIPE (m)	603(17-900) 900mm PIPE (m)	603(9-1000) 1000mm CAP (m)	603(9-1500) 1500mm CAP (m)	603(20-600) END SECTION FOR 600mm PIPE(EACH)	603(20-900) END SECTION FOR 900mm PIPE(EACH)	603(11-1000) END SECTION FOR 1000mm CAP(EACH)	INLET ELEVATION	INLET OFFSET	OUTLET OFFSET	OUTLET ELEVATION	% GRADE	REMARKS
FP6	'P' 61+642.0	C.L.		22° LT.			15.02 ~~7.3~~				2			~~17.85~~ 16.49	5.4 RT.	1.9 LT.	~~17.49~~ 14.35	~~5.00~~ 14.3	~~RIPRAP OUTLET END~~
FP6	'P' 61+~~640.0~~	C.L.	+644.5	25° LT.			18.5 ~~9.0~~				2			~~17.45~~ 29	5.7 RT.	3.3 LT.	~~17.00~~ 14.59	~~5.00~~ 14.6	~~RIPRAP OUTLET END~~
	'P' 61+783.0	C.L.					13.4				2			23.44			22.76		
FP7	'P' 61+887.5	C.L.		37° RT.			2	2.983 ~~6.6~~				2		21.30	5.1 RT.	1.5 LT.	20.97	4.4 ~~5.00~~	RIPRAP INLET & OUTLET ENDS
~~FP7~~	~~'P' 61+926.0~~	~~C.L.~~					~~5.8~~ 0				~~2~~ 0			~~20.78~~	~~4.2 RT.~~	~~1.6 LT.~~	~~20.49~~	~~5.00~~	~~RIPRAP OUTLET END~~ DELETED
FP7	'P' 61+~~940.0~~	C.L.	+936.0				21.9 ~~5.8~~				2			20.58	4.2 RT.	1.6 LT.	20.29	5.00	RIPRAP INLET & OUTLET ENDS
FP7	'P' 61+968.0	C.L.						19.2 ~~7.8~~				2		19.18	5.0 RT.	2.8 LT.	18.79	5.00	~~RIPRAP OUTLET END~~
FP7	~~'P' 61+974.0~~	~~C.L.~~						~~6.0~~				~~2~~		19.28	4.2 RT.	1.8 LT.	18.98	5.00	RIPRAP OUTLET END
FP7	~~'P' 61+988.5~~	~~C.L.~~						~~6.2~~				~~2~~		19.00	4.2 RT.	2.0 LT.	18.69	5.00	RIPRAP OUTLET END
	'P' 62+116.0	C.L.				8.1													
FP10	'P' 63+~~263.0~~	C.L.	+294.0				~~8.0~~	15.60			~~2~~	2		7.12	2.2 LT.	5.8 RT.	6.96	2.00	
FP13	'P' 64+~~004.0~~	C.L.	+088.0				14.4 ~~6.5~~				2			6.94	1.6 LT.	4.9 RT.	6.81	2.00	
	'P' 62+808.0	LT. / RT.				17.22 LT.	16.76 RT.				2								
FP15	~~'P' 64+680.0~~	~~C.L.~~					~~6.0~~				~~2~~			8.40	1.2 LT.	4.8 RT.	8.34	1.00	
FP16	~~'P' 64+760.0~~	~~C.L.~~					~~5.5~~				~~2~~			8.91	4.2 RT.	1.3 LT.	8.76	2.72	
	'P' 62+634.0	C.L.				7.0													
	984.0																		
FP16	'P' 64+~~985.0~~	C.L.	9.3				9.0 ~~6.0~~				2			7.65	4.2 RT.	1.8 LT.	7.54	2.00	
	'P' 65+087.8	C.L.				13.10													
FP17	'P' 65+094.0	C.L.	13.5																
FP17	'P' 65+158.0	C.L.	12.3				12.4				2			6.08	7.4 RT.	5.0 LT.	5.83	2.00	
FP17	'P' 65+277.0	C.L.	12.2				10.0	8.2			2	2		6.75	5.6 RT.	2.6 LT.	6.59	2.00	
	'P' 65+378.4	C.L.				11.57													
	'P' 65+456.0	C.L.					10.0				2								ADDED
FR8	'R' 4+300.0	C.L.							21.6				1	5.20	8.0 RT.	13.1 LT.	4.77	2.00	PERCHED PIPE, END SECTION ON INLET, SEE NOTE 4
FR9	'R' 4+435.0	C.L.							21.6				1	5.20	8.0 RT.	13.1 LT.	4.77	2.00	PERCHED PIPE, END SECTION ON INLET, SEE NOTE 4
FR9	'R' 4+568.0	C.L.							21.~~6~~ 5				1	5.20	8.0 RT.	13.1 LT.	4.77	2.00	PERCHED PIPE, END SECTION ON INLET, SEE NOTE 4
FR9	'R' 4+635.0	C.L.							21.~~6~~ 45				1	5.20	8.0 RT.	13.1 LT.	4.77	2.00	PERCHED PIPE, END SECTION ON INLET, SEE NOTE 4
FR10	'R' 4+754.0	C.L.							21.~~6~~ 5				1	5.20	8.0 RT.	13.1 LT.	4.77	2.00	PERCHED PIPE, END SECTION ON INLET, SEE NOTE 4
	588.0																		
FCR1	44+~~588.0~~	RT.		9°13'11"LT.		11.0 ~~9.8~~								8.65	5.7 RT.	15.5 RT	8.56	0.92	CONNECT PIPE INLET TO TYPE 'A' INLET BOX
FCR1	44+~~598.0~~	LT.				7.0 ~~4.8~~								8.65	5.7 LT.	11.1 LT.	8.62	0.50	CONNECT PIPE INLET TO TYPE 'A' INLET BOX
	588.0																		
FPR1	'PR' 5+155.0	C.L.				7.01 ~~4.7~~								17.39	3.6 LT.	1.1 RT.	17.22	3.62	
FPR1	'PR' 5+185.8	C.L.		43°45'36"RT.		0 ~~7.5~~								17.50	1.7 LT.	3.6 RT.	17.65	2.03	
FPL1	'PL' 4+099.3	C.L.	17.1	50°20'24"LT.		15.1 ~~16.4~~								14.93	5.6 RT.	19.8 LT.	14.64	1.88	
	'PL' 4+980	C.L.				5.03													
FPK1	'PK' 10+~~034.0~~	C.L.				~~13.8~~								20.03	6.5 LT.	6.8 RT.	19.50	3.98	
	+015.0					20.16													

DESIGNED BY
CHECKED BY
DRAFTED BY
11-14-02
VIEW= D4
AUTOCAD-14(REL-D)\SBSGFRG\53597\DATA\72SUM.DWG
SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

SUMMARY TABLES

STATE OF ALASKA 49TH JUDY J. DOUGHERTY CE 8823 11-26-02 REGISTERED PROFESSIONAL ENGINEER

REVISIONS		
No.	DATE	DESCRIPTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0A3-1(28)	2002	D5	D9

202(1)

REMOVAL OF STRUCTURES & OBSTRUCTIONS

SHEET	REMOVAL ITEM	REMARKS
F13	ARTILLERY GUN MOUNT	
FCR1	CHAIN LINK FENCE	
FCR1	CONCRETE SLAB	
FCR1	BRIDGE RAILING	BRIDGE NO. 643
FCR1	PEDESTRIAN RAILING	BRIDGE NO. 643
FCR2	ELECTRICAL UNIT FOR PEDESTRIAN SIGN	

604(5)

INLET SUMMARY

SHEET	STRUCTURE	STATION	OFFSET	TYPE	TYPE OF CASTING	TOP OF CASTING ELEVATION
		588				
FCR1	S-1	44+~~593.000~~	5.7 RT.	TYPE A	GUTTER INLET	9.~~48~~ 45
FCR1	S-2	44+~~593.000~~	5.7 LT.	TYPE A	GUTTER INLET	9.~~48~~ 40
		588				

GUARDRAIL SUMMARY

SHEET	STATION TO STATION			OFFSET	606(1) W-BEAM GUARDRAIL (m)	606(6) REMOVING AND DISPOSING OF GUARDRAIL (m)	606(11) EXTRUDER TERMINAL (ET-2000) EACH	606(12) GUARDRAIL / BRIDGE RAIL CONNECTION EACH	REMARKS
	274.60		664.10		389.5				
F11-F13	40+~~264.84~~	TO	40+~~677.14~~	LT.	~~430.0~~		2		SEE GUARDRAIL DETAIL-LONG SPAN W-BEAM GUARDRAIL
	376.30		574.42		198.12				
F12	40+~~959.42~~	TO	40+~~585.85~~	RT.	~~934.1~~		2		SEE GUARDRAIL DETAIL-LONG SPAN W-BEAM GUARDRAIL
F12	40+448.20	TO	40+515.00	RT.		67.0			
	41+265.00	TO	41+272.62		7.62				
F12-F13	40+515.00	TO	40+635.00	LT.		120.0			
	882.90		050.50						
F01	40+~~873.38~~	TO	41+~~063.38~~	LT.	167.~~0~~ 64	190	2		
F01-F02	41+~~246.57~~	TO	41+~~546.77~~	LT.	~~279.4~~	300	2		
	256.90		535.00		278.12				
F02-F03	41+~~751.97~~	TO	~~42+006.57~~	LT.	~~331.8~~	255	2		
	764.00		41+996.40		232.4				
F03	42+~~220.61~~	TO	42+~~296.61~~	LT.	53.~~2~~ 34	76	2		
	232.16		285.50						
F04-F05	~~42+998.33~~	TO	43+~~165.58~~	LT.	144.~~4~~ 78	167	2		
	43+010.20		155.0						
F04-F05	43+~~100.87~~	TO	43+~~188.27~~	RT.	64.~~6~~ 76	87	2		
	112.00		176.76						
F06-F07	44+~~260.91~~	TO	44+~~650.87~~	RT.	~~330.0~~	352	1	1	SEE GUARDRAIL DETAIL-RUB RAIL DETAIL
	262.0		647.06		346.31				
F07	44+~~378.45~~	TO	44+~~650.87~~	LT.	~~212.0~~	234	1	1	SEE GUARDRAIL DETAIL-RUB RAIL DETAIL
	391.15		647.06		217.17				
FCR1	44+~~712.69~~	TO	44+~~763.99~~	RT.	34.29	61	1	1	
	718.39		752.69						
FCR1-FCR2	44+~~712.69~~	TO	44+~~874.19~~	LT.	144.~~4~~ 78	95	1	1	SEE GUARDRAIL DETAIL
	716.50		861.28						
~~FDET1-FDET2~~	~~'DET' 3+000.00~~	~~TO~~	~~'DET' 3+786.60~~	~~RT.~~	~~775.2~~	~~775.2~~	~~1~~		~~TEMPORARY GUARDRAIL FOR DETOUR ROUTE~~
~~FDET1-FDET2~~	~~'DET' 3+000.00~~	~~TO~~	~~'DET' 3+881.60~~	~~LT.~~	~~870.2~~	~~870.2~~	~~1~~		~~TEMPORARY GUARDRAIL FOR DETOUR ROUTE~~
	41+478	TO	41+493.34		15.34				
	41+880	TO	41+887.62		7.62				

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

SUMMARY TABLES

STATE OF ALASKA 49TH JUDY J. BOUGHERTY CE 8823 REGISTERED PROFESSIONAL ENGINEER 11-26-02

DESIGNED BY
CHECKED BY
DRAFTED BY
11-14-02
6/12/02
VIEW= D5
SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-40AEN-D:\BRIDGEPRO\53577\DATA\775TSM.DWG
TEMP-CAROLEE-D:\SDSKPRO\53577\775SM.DWG

REVISIONS		
No.	DATE	DESCRIPTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0A3-1(28)	2002	D6	D9

RIPRAP SUMMARY

SHEET	STATION TO STATION	DIMENSION A (m)	DIMENSION B (m)	611(2) RIPRAP CLASS I PIPE INLET	611(2) RIPRAP CLASS I PIPE OUTLET	611(2) RIPRAP CLASS I VOLUME (m^3)	611(2A) RIPRAP CLASS II VOLUME (m^3)	611(2B) RIPRAP R750 VOLUME (m^3)	631(2) GEOTEXTILE SEPARATION (m^2)	REMARKS
FP4	'P' 61+010.0	3	0.5		X	7.2			21.2	
FP4	'P' 61+010.0	4	0.5	X		9.6			25.8	
FP5	'P' 61+349.0	10	0.5		X	24.0			53.4	
FP5	'P' 61+450.0	4	0.5		X	9.6			25.8	
FP5	'P' 61+471.5	8	0.5		X	19.2			44.2	
FP5	'P' 61+492.0	8	0.5		X	19.2			44.2	
FP6	'P' 61+529.0	8	0.5		X	19.2			44.2	
FP6	'P' 61+541.0	8	0.5		X	19.2			44.2	
FP6	'P' 61+584.0	4	0.5		X	9.6			25.8	
FP6	'P' 61+596.0	7	0.5		X	16.8			39.6	
FP6	'P' 61+642.0	5	0.5		X	12.0			30.4	
FP6	'P' 61+649.0	4	0.5		X	9.6			25.8	
FP7	'P' 61+887.5	5	0.7		X	13.6			33.0	
FP7	'P' 61+887.5	3	0.7	X		8.2			23.0	
FP7	'P' 61+926.0	6	0.5		X	14.4			35.0	
FP7	'P' 61+940.0	3	0.5		X	7.4			21.2	
FP7	'P' 61+940.0	3	0.5	X		7.4			21.2	
FP7	'P' 61+968.0	5	0.7		X	13.6			33.0	
FP7	'P' 61+974.0	5	0.7		X	13.6			33.0	
FP7	'P' 61+988.5	3	0.7		X	8.2			23.0	
FR1-FR11	'R' 2+090.0 TO 'R' 5+020.0						29,918.0			SEE RAILROAD TYPICAL SECTION
FR1-FR11	'R' 2+050.0 TO 'R' 5+020							28,262.0		SEE RAILROAD TYPICAL SECTION
	ARTILLERY PAD						275.0	279.0		

639(6)

APPROACH

SHEET	STATION	OFFSET	WIDTH	RADIUS	REMARKS
F6	38+511	RT.	6.0	6.0	UTILITY ACCESS
F11	40+088	LT.	6.1	6.0	ARTILLERY GUN PAD
F13	40+722	LT.	12.0	*	* AS DIRECTED BY THE ENGINEER
F13	40+774	LT.	12.0	*	* AS DIRECTED BY THE ENGINEER
F03	42+355	RT.	6.0	6.0	SEE NOTE 1
F04	42+639	RT.	4.2	6.0	SEE NOTE 1
F04	42+718	RT.	6.0	12.0	SEE NOTE 1
F04	42+723	LT.	4.2	6.0	SEE NOTE 1
F04	42+843	RT.	6.0	6.0	SEE NOTE 1
F04	43+057	RT.	6.6	6.0	SEE NOTE 1
F05	43+206	RT.	6.0	12.0	SEE NOTE 1
F05	43+242	RT.	7.2	12.0	KONIKSON RD, SEE NOTE 1
F05	43+436	RT.	4.2	6.0	SEE NOTE 1
F05	43+464	RT.	7.2	12.0	SEE NOTE 1
F05	43+516	RT.	7.2	12.0	SEE NOTE 1
F05	43+557	RT.	7.2	12.0	SAWMILL RD, SEE NOTE 1
F05	43+565	LT.	4.2	6.0	SEE NOTE 1
F05	43+612	RT.	7.2	12.0	SEE NOTE 1
F05	43+642	RT.	4.8	6.0	SEE NOTE 1
F05	43+749	RT.	6.0	12.0	STELLAR JAY LANE, SEE NOTE 1
F06	43+866	RT.	7.2	12.0	SEE NOTE 1
F06	44+059	RT.	7.2	12.0	SEE NOTE 1
F06	44+244	LT.	7.2	12.0	BIRD CREEK CAMPGROUND ACCESS, SEE NOTE 1
F06	44+248	RT.	10.9	12.0	BIRD CREEK OVERLOOK ACCESS, SEE NOTE 1
FCR2	44+940	RT.	10.8	12.0	PARKING LOT ACCESS
FPK1	'PK' 10+190	LT.	3.7	6.0	SERVICE ROAD ACCESS

NOTE 1.
OVERLAY EXISTING PAVEMENT TO MATCH ROADWAY.

STATE OF ALASKA 49TH JUDY J. DOUGHERTY CE 8823 REGISTERED PROFESSIONAL ENGINEER 11-21-02

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

SUMMARY TABLES

TEMP-CAROLEE-D:\SDSKPROJ\53571\775SUM.DWG
AUTOCAD-CAREN-D:\SDSKPROJ\53577\DATA\775SUM.DWG
SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
DESIGNED BY
CHECKED BY
DRAFTED BY
11-14-02
3/5/02
VIEW: D6

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	D7	D9

641(3)

SILT FENCE

SHEET	STATION	OFFSET	QUANTITY(m)	REMARKS
F2-F3	37+560 TO 37+680	RT.	120	
F6-F8	38+540 TO 39+130	RT.	590	
F10	39+760 TO 39+920	RT.	160	
FCR1	44+785	RT.	10	
FCR2	44+875	LT.	5	

641(4)

STRAW BALE

SHEET	STATION TO STATION	OFFSET	QUANTITY (m)	REMARKS
FCR1	44+785	RT.	8.4	
FCR2	44+875	LT.	6.0	
FCR2	44+915	LT.	6.0	
FCR2	44+990	LT.	6.0	
FCR2	45+065	LT.	6.0	
FCR3	45+140	LT.	6.0	
FCR3	45+215	RT.	6.0	
		LT.	6.0	
FCR3	45+290	RT.	6.0	
		LT.	6.0	

650(8)

SINGLE ENTRANCE GATE

SHEET	STATION	OFFSET	REMARKS
			CHANGED TO DOUBLE GATE
~~F6~~	~~38+510~~	~~20.0 RT.~~	~~OFFSET MEASURED TO CENTER OF GATE~~
FR11	'P' 65+487	41.0 RT.	OFFSET MEASURED TO CENTER OF GATE
FPK1	'PK' 10+075	19.0 RT.	OFFSET MEASURED TO CENTER OF GATE
	10+240	10.0 LT.	

650(9)

DOUBLE ENTRANCE GATE

SHEET	STATION	OFFSET	REMARKS
F3	37+838	LEFT	
FR7	'R' 3+~~900~~	RIGHT	ACCESS TO ARTILLERY PAD
	38+510	20 RT.	
FPK1	'PK' 10+025	CENTERLINE	
FPK1	'PK' 10+165	12.6 RT.	
FPK1	'PK' 10+170	12.6 LT.	

650(30B)

INTERPRETIVE KIOSK, TYPE B

SHEET	STATION	OFFSET	REMARKS
FPR1	'PR' 5+195	4.9 LT.	OFFSET MEASURED TO CENTER OF STRUCTURE

650(38)

ENTRANCE SIGN

SHEET	STATION	OFFSET	REMARKS
FPK1	'PK' 10+024	10.0 RT.	

STATE OF ALASKA 49TH JUDY J. DOUGHERTY CE 8823 11-26-02 REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

SUMMARY TABLES

SPECIFICATIONS | DESIGNED BY | CHECKED BY | DRAFTED BY | 11-14-02
SCALE (=1) | VIEW= D7
COMPUTER DESIGNATION | AUTOCAD-KAREN-D:\SBSKERRDA\SS572\DATA\TYPSUM.DWG

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	D8	D9

680(6)

FURNISH AND INSTALL TELEPHONE HANDHOLE AND/OR VAULT

STATION	OFFSET	QUANTITY(EACH)	REMARKS
ACS			
~~36+225~~	~~18.9 RT.~~	~~1~~	DELETED,USED EXISTING VAULT
~~36+225~~	~~14.9 LT.~~	~~1~~	DELETED,USED EXISTING VAULT
37+~~250~~ 478.2	5.1 ~~8.0~~ LT.	1	
38+~~455~~ 630.0	7.0 LT.	1	
39+660	8.0 LT.	1	
43+440	15.3 LT.	1	
40+340	12.43 ~~8.0~~ LT.	1	
45+025	22.~~1~~8LT.	1	
45+320	23.4 LT.	1	
40+985	2.95 RT.	1	
GCI			
37+~~024.13~~ 124.00	4.11 ~~11.83~~ LT.	1	
38+407.56	10.06 LT.	1	
39+145.60	11.00 LT.	1	
39+877.70	11.00 LT.	1	
40+340.00 1243 LT.	~~37.00 RT.~~	1	
AFS			
~~"R" 3+380~~ 39+943	~~4.27 RT.~~ LT.	1	

680(6A)

FURNISH TELEPHONE HANDHOLE

STATION	OFFSET	QUANTITY(EACH)	REMARKS
AFS			
"R" 5+~~111.1~~ 001.0	3.65 LT.	1	

680(6B)

INSTALL TELEPHONE VAULT

STATION	OFFSET	QUANTITY(EACH)	TYPE	REMARKS
ACS				
~~BETWEEN 40+500 AND 40+600~~	~~18.9 RT.~~	~~1~~	~~4890~~	
42+180	9.7 RT.	1	3048	
GCI				
44+730.~~29~~ 00	10.53 LT.	1	3048	
"PL" 4+448.51	1.37 RT.	1	3048	
45+598.78	21.22 LT.	1	3048	

680(10)

FURNISH AND INSTALL SINGLE INNERDUCT

STATION	QUANTITY(m)	REMARKS
AFS		
"R" 2+060 TO "R" 2+085	15.0	
~~"R" 6+111.1 TO "R" 3+880~~	~~1236~~ 850	"R" 3+725 TO "R" 3+075
~~"R" 3+880 TO "R" 1+675~~	~~2215~~ 76	38+167 TO 38+243
RAIL CROSSING 37+840	20.0	

680(11)

FURNISH AND INSTALL TWO INNERDUCTS

STATION	QUANTITY(m)	REMARKS
ACS		
36+015, 42.3 RT. TO 36+225, 14.9 RT.	222.65	
36+225, 14.9 RT. TO 36+225, 18.9 LT.	33.80	
36+225, 18.9 LT. TO 36+525, 24.54 LT.	300.00	
36+525, 24.54 LT. TO 36+525, 41.14 LT.	16.64	
36+525, 41.14 LT. TO 36+645, 55.9 LT.	120.90	
36+645, 55.9 LT. 37+250, 8.0 LT.	540.01	
37+250, 8.0 LT. TO 38+245, 7.19 LT.	955.00	
40+800, 11.9 RT. TO 42+180, 9.7 RT.	1380.00	
42+180, 9.7 RT. TO 43+440, 9.1 RT.	1260.00	

680(12)

INSTALL THREE INNERDUCTS

STATION	QUANTITY(m)	REMARKS
GCI		
44+730.29, 8.63 RT. TO 44+730.29, 10.53 LT.	19.20	
45+596, 23.4 LT. TO 45+598.78, 21.22 LT.	2.78	
45+598.78, 21.22 LT. TO 45+600, 10.67 RT.	31.60	

STATE OF ALASKA
49TH
JUDY J. DONOHEY
CE 8823
11-26-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

SUMMARY TABLES

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-AASHTO-D:\SRSRPROJ\S597\DATA\7PSTM.DWG 11-20-02
VIEW= D8
DESIGNED BY
CHECKED BY
DRAFTED BY
6/19/02

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	D9	D9

680(13)

FURNISH TWO AND INSTALL FIVE INNDERDUCTS

STATION	QUANTITY(m)	REMARKS
COMMON TRENCH FOR ACS AND GCI		
38+245.4,8.71 LT. TO 38+407.56, 10.06 LT.	162.16	
38+407.56, 10.06 LT TO 38+455, 7 LT.	47.44	
38+455, 7 LT. TO 39+145.6, 10.06 LT.	690.60	
39+145.6, 10.06 LT. TO 39+660, 8 LT.	514.40	
39+660, 8 LT. TO 39+877.7, 11 LT.	217.70	
39+877.7, 11 LT. TO 40+340, 8 LT.	462.3	
40+340, 37 RT. TO 40+800, 11.89 RT.	460.00	

680(14)

INSTALL TWO CONDUITS

STATION	QUANTITY(m)	REMARKS
ACS		
44+718 TO 44+730, RT.	12	

680(15)

INSTALL 2 CONDUITS, 3 INNERDUCTS, FURNISH AND INSTALL 2 INNERDUCTS

STATION	QUANTITY(m)	REMARKS
COMMON TRENCH FOR ACS AND GCI		
40+340, 8 LT. TO 40+340, 37 RT.	45	

680(16)

INSTALL 2 CONDUITS AND 3 INNERDUCTS CONCRETE ENCASED

STATION	QUANTITY(m)	REMARKS
COMMON TRENCH FOR ACS AND GCI		
44+730.29, 10.53 LT. TO 45+596, 23.4 LT.	902.18	

680(17)

INSTALL FIBER OPTIC CABLE

STATION	QUANTITY(m)	REMARKS
AFS		
001		
"R' 5+~~111.1~~ TO "R" ~~2+880~~ 3+751	~~1231.1~~ 1257.0	
"R" 3+~~880~~ TO "R" 1+675 751	~~2205.0~~ 2109.21	

DESIGNED BY
CHECKED BY
DRAFTED BY 6/19/02
VIEW: D9
11-20-02
AUTOCAD-KAREN-D:\SBSKFRO\A5697A\DATA\77SUM.DWG
SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

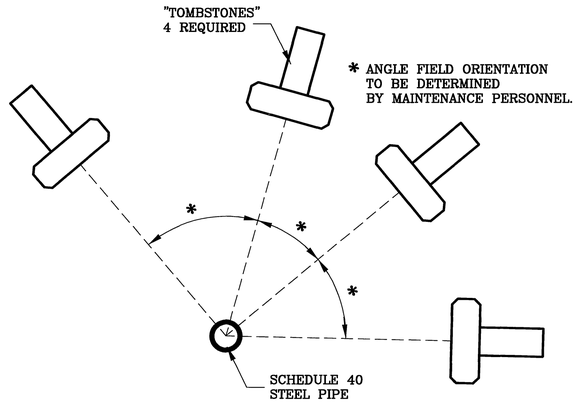
SUMMARY TABLES

STATE OF ALASKA 49TH JUDY J. DOUGHERTY CE 8823 REGISTERED PROFESSIONAL ENGINEER 11-26-02

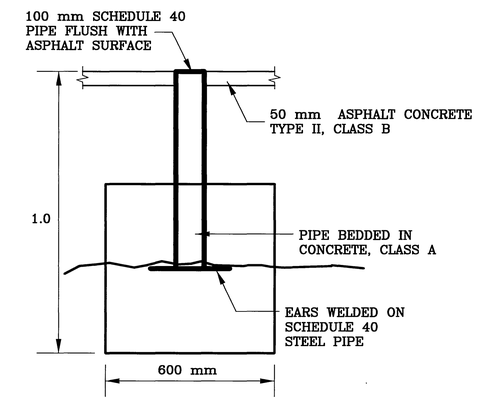
REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NHI-0A3-1(28)	2002	E1	E30

NOTES:

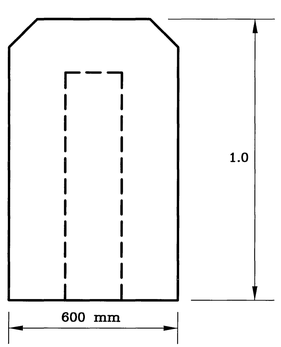
1. SURVEYORS WILL STAKE GUNMOUNT PIPE LOCATION PRIOR TO CONSTRUCTION STAKING OF PAD. FINAL LOCATION OF PAD AND GUNMOUNT LOCATION AS DIRECTED BY THE ENGINEER.
2. TOMBSTONES TO BE CONSTRUCTED FROM CONCRETE, CLASS A.
3. COORDINATE PAD PLACEMENT AND GUNMOUNT ORIENTATION WITH ADOT MAINTENANCE PERSONNEL PRIOR TO CONSTRUCTION.
4. EXCAVATE AND POUR CONCRETE PRIOR TO PLACING ASPHALT CONCRETE PAVEMENT.



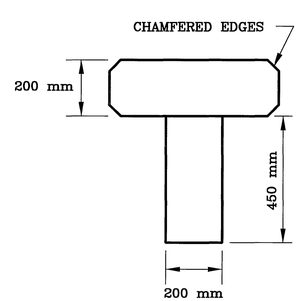
PLAN LAYOUT



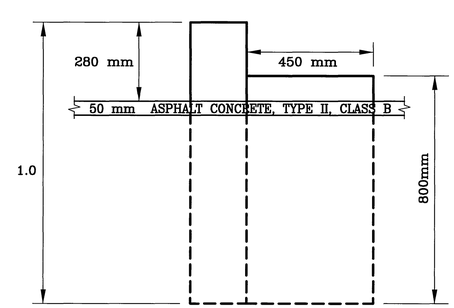
ARTILLERY GUNMOUNT PIPE SIDE VIEW



"TOMBSTONE" FRONT VIEW



"TOMBSTONE" PLAN VIEW



"TOMBSTONE" SIDE VIEW

STATE OF ALASKA
JUDY J. DOUGHERTY
CE 8823
11-26-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

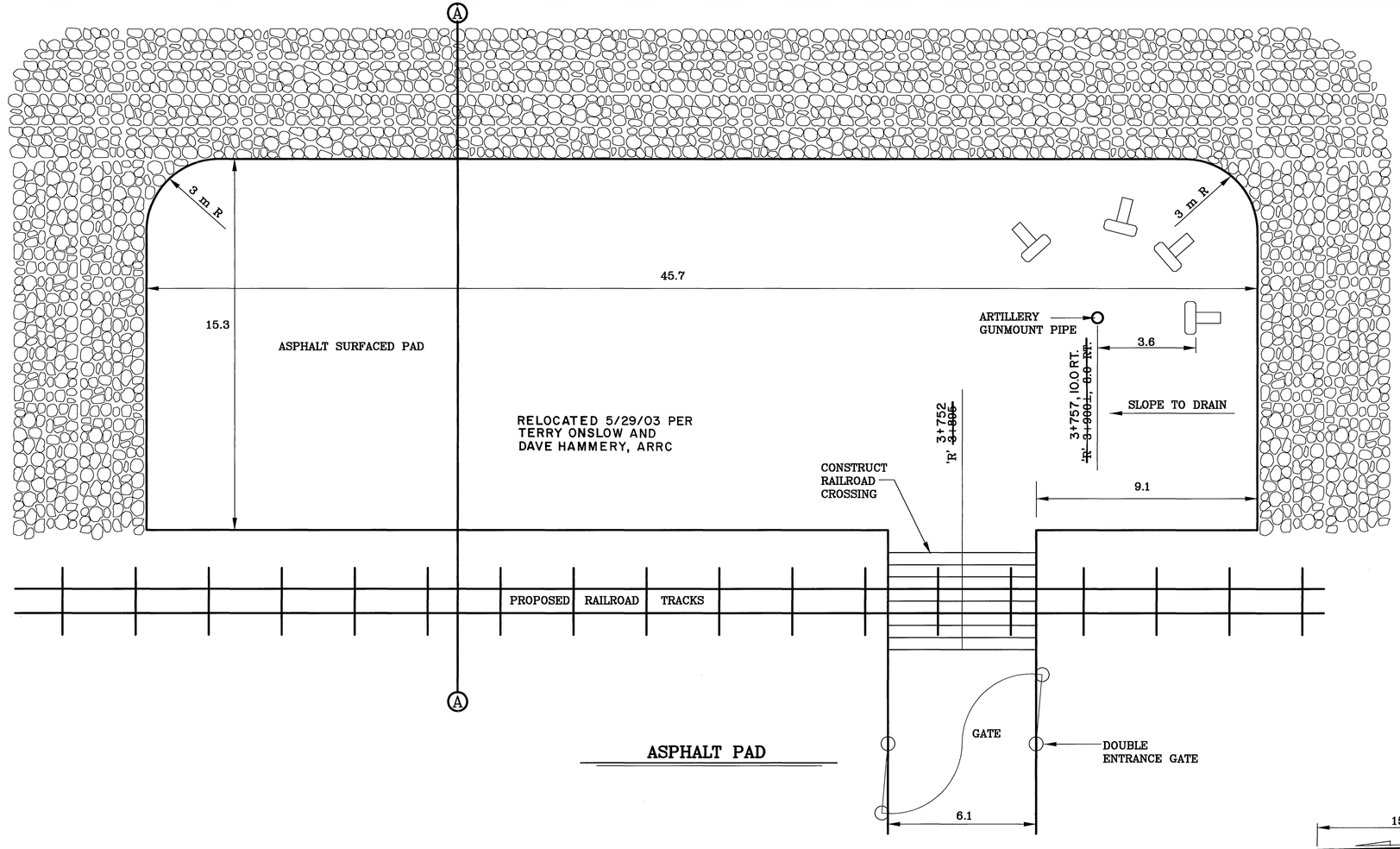
SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

ARTILLERY
GUNMOUNT DETAILS

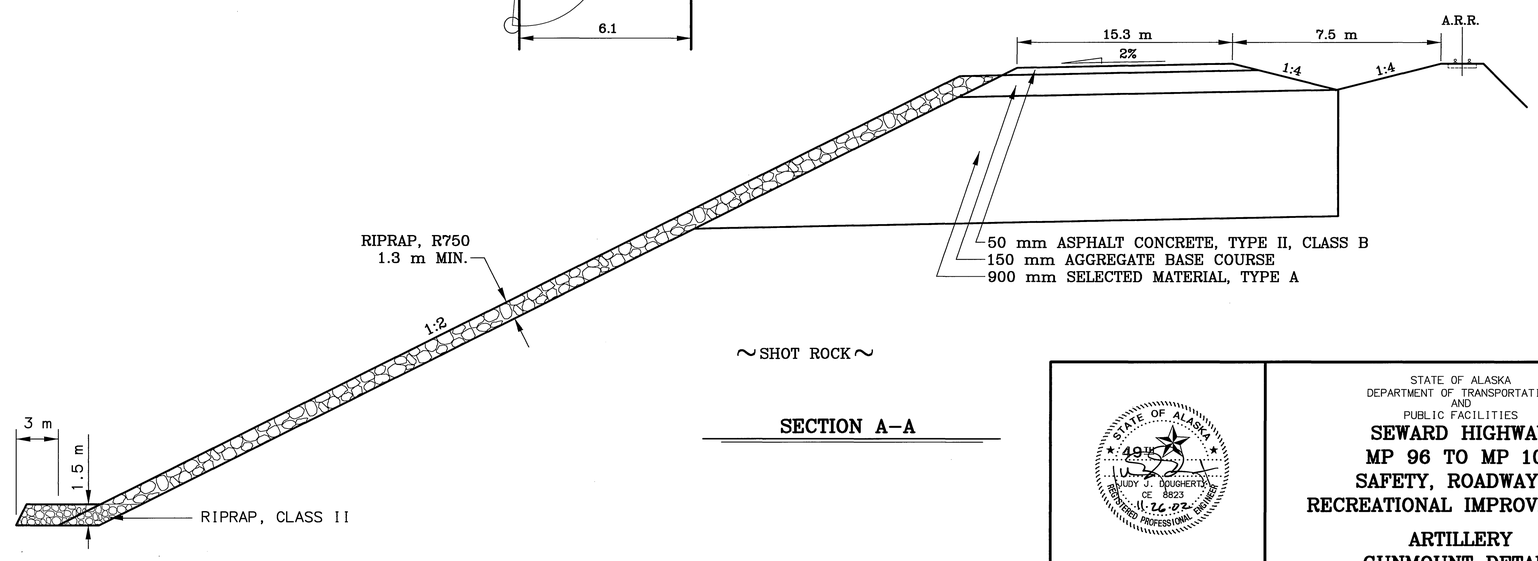
SPECIFICATIONS | DESIGNED BY
SCALE 1=1 | CHECKED BY
COMPUTER DESIGNATION | AUTOCAD-AREN-5897A\DATA\YIGUNNNT2.DWG 11-19-02 | VIEW=2, at 1 | DRAFTED BY KMH

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NHI-0A3-1(28)	2002	E2	E30

REVISIONS		
No.	DATE	DESCRIPTION



ASPHALT PAD



SECTION A-A

STATE OF ALASKA
JUDY J. DOUGHERTY
CE 8823
11-26-02
REGISTERED PROFESSIONAL ENGINEER

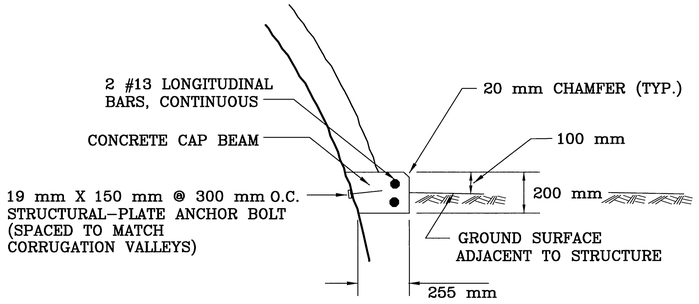
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

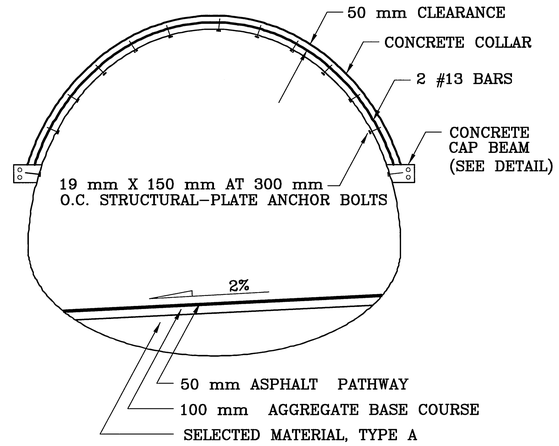
ARTILLERY
GUNMOUNT DETAILS

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-KAREN-55977\DATA\770UNNNT2.DWG 11-19-02
VIEW=1 at 1
DESIGNED BY
CHECKED BY
DRAFTED BY
KMH

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	E3	E30



CONCRETE CAP BEAM DETAIL

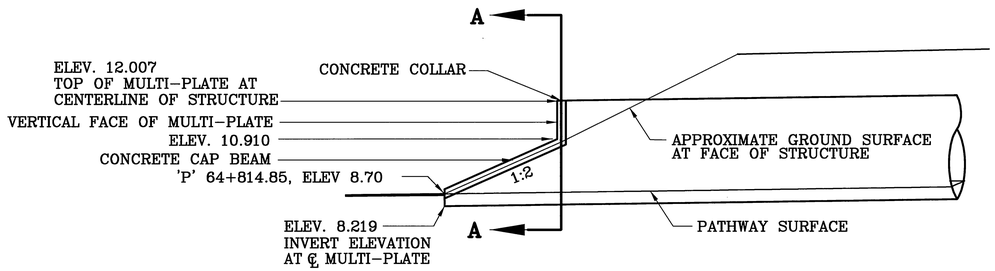


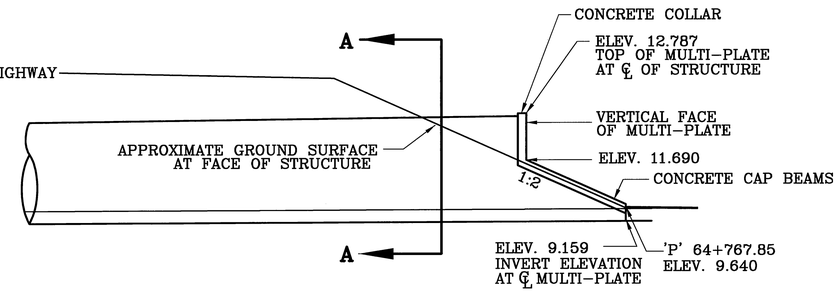
UNDERPASS CROSS-SLOPE AND COLLAR DETAIL

SECTION A-A

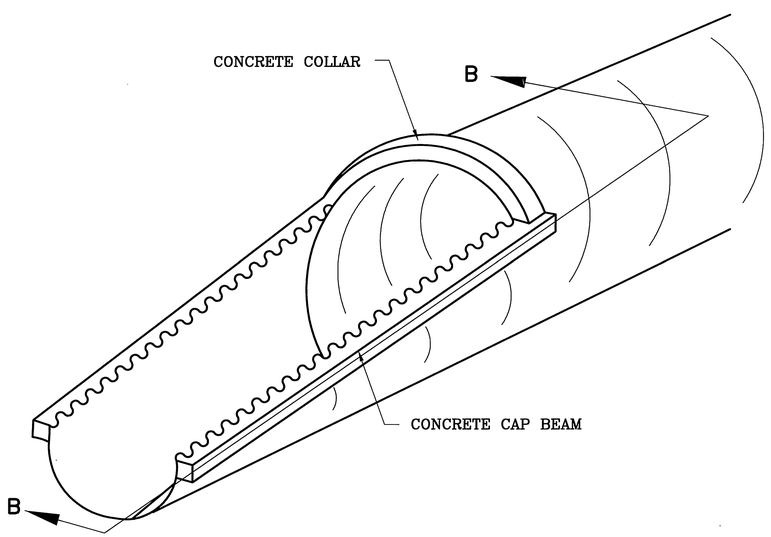
NOTES:

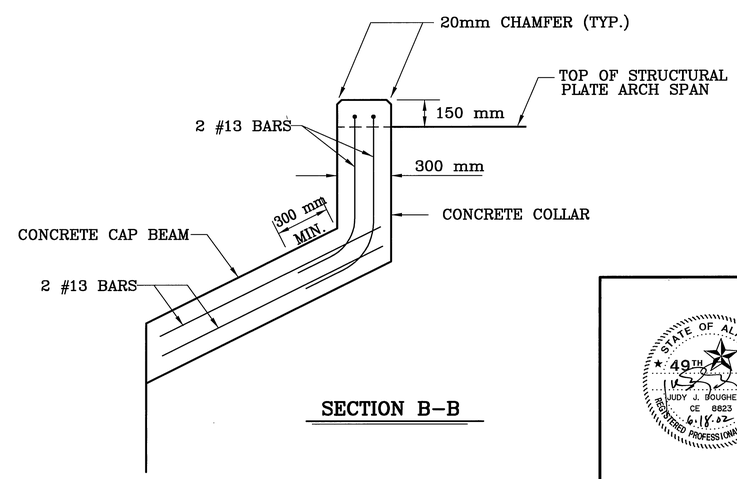
1. STRUCTURE PLATE STEEL THICKNESS SHALL BE 2.77 mm.
2. STRUCTURAL PLATE BOLTS SHALL BE INSTALLED WITH NUTS ON THE EXTERIOR OF THE STRUCTURE.
3. FIELD MADE BOLT HOLES SHALL BE REAMED OR DRILLED.
4. CONSTRUCTION EQUIPMENT SHALL NOT BE ALLOWED TO DRIVE ACROSS THE STRUCTURE UNTIL 1 m OF COMPACTED BACKFILL COVER IS IN PLACE NO TRAFFIC WILL BE ALLOWED WITHOUT A MINIMUM OF 0.6 m OF COVER ABOVE THE PIPE.
5. BEDDING SHALL BE SELECTED MATERIAL, TYPE A. MATERIAL GREATER THAN 75 mm SHALL NOT BE ALLOWED AGAINST THE PIPE.
6. ALL CONCRETE SHALL BE CLASS "A".
7. REINFORCING STEEL SHALL BE A.S.T.M. A615M GRADE 420.



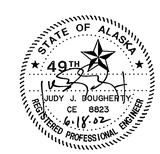


PROFILE





SECTION B-B



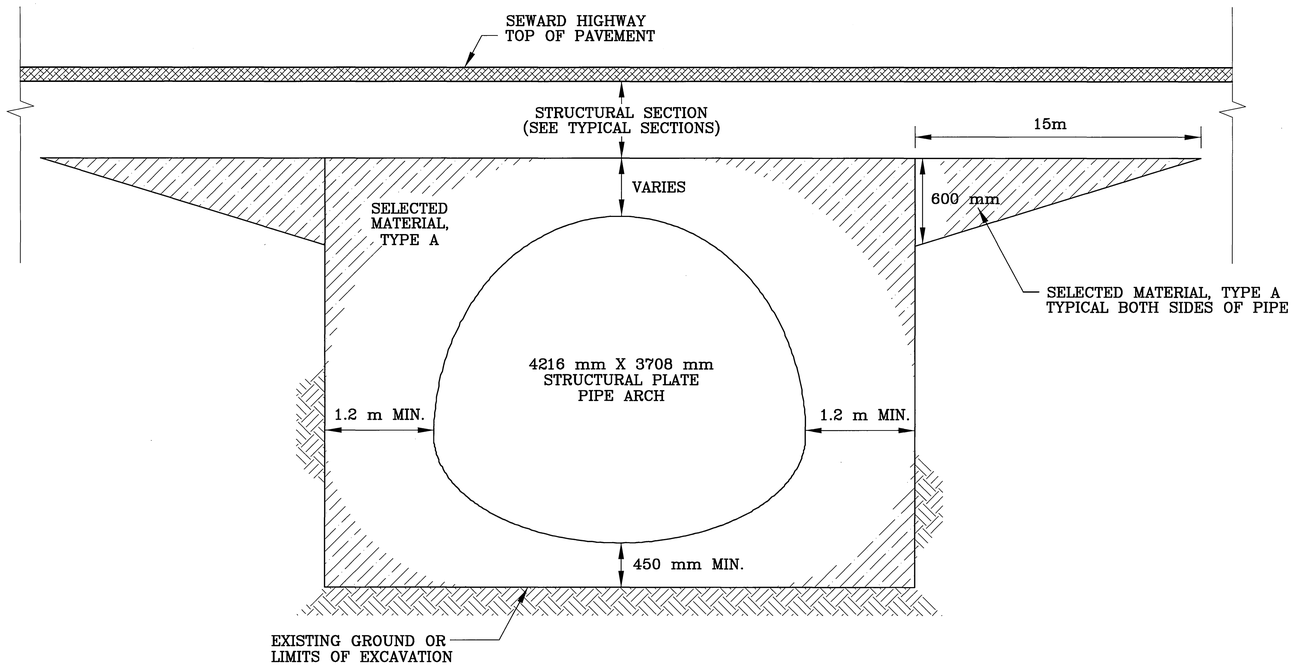
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND RECREATIONAL IMPROVEMENTS

STRUCTURAL PLATE PIPE ARCH DETAILS

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-KAREN-D:\SEWRDHWY\SEWRY\DATA\CONTRACT\VTI\BE.DWG 8-3-01 9:05:17 am EST VIEW=1
DESIGNED BY
CHECKED BY
DRAFTED BY KMH 6/12/02

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	E4	E30



PIPE ARCH BACKFILL AND BEDDING DETAIL

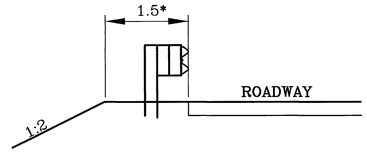
SPECIFICATIONS		
SCALE 1=1		
COMPUTER DESIGNATION	AUTOCAD-KAREN-	53577/7710BE
DESIGNED BY		
CHECKED BY		
DRAFTED BY	KMH	6/12/02
VIEW=2		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

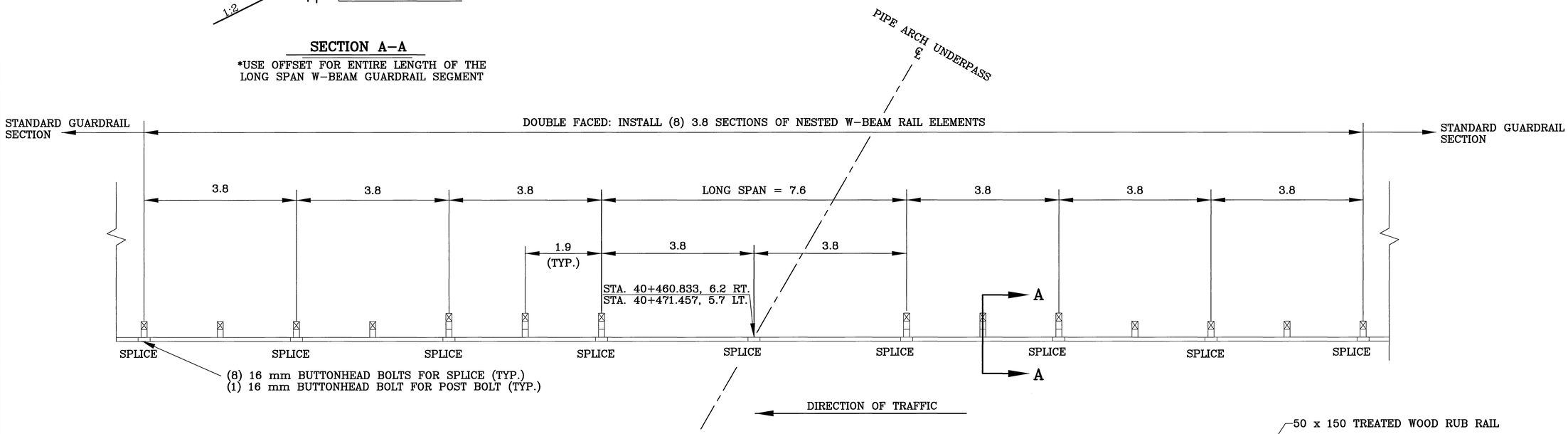
STRUCTURAL PLATE PIPE ARCH
DETAILS

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NHI-0A3-1(28)	2002	E5	E30



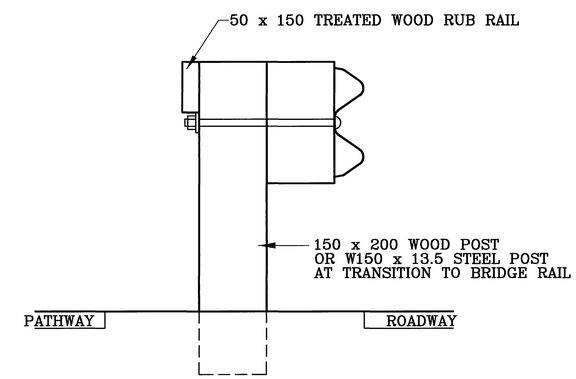
SECTION A–A

*USE OFFSET FOR ENTIRE LENGTH OF THE LONG SPAN W–BEAM GUARDRAIL SEGMENT



LONG–SPAN W–BEAM GUARDRAIL

LEFT AND RIGHT SIDE



RUB RAIL DETAIL

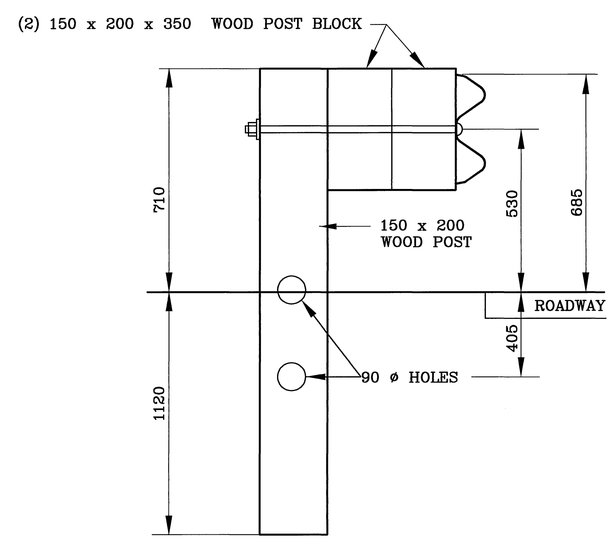
RUB RAIL NOTES:

1. FASTEN RUB RAIL TO EACH GUARDRAIL POST WITH 2–16d GALVANIZED NAILS OR 6 mm BOLTS.
2. JOINTS IN RUB RAIL TO BE MADE AT GUARDRAIL POSTS.
3. GUARD RAIL NUT AND BOLT NOT TO EXTEND BEYOND RUB RAIL.

LEGEND

STANDARD GUARDRAIL POST

LONG SPAN WOOD GUARDRAIL POST (SEE DETAIL)



LONG SPAN GUARDRAIL POST DETAIL

LONG SPAN W–BEAM GUARDRAIL

1. CENTER LONG SPAN OF W–BEAM GUARDRAIL OVER PIPE ARCH UNDERPASS. DO NOT INSTALL POSTS WITHIN LONG SPAN.
2. REFERENCE STANDARD DRAWING G–00.01[M], G–04.07W[M] FOR MAKING SPLICE CONNECTIONS AND OTHER STANDARD INSTALLATION DETAILS.
3. NESTED SECTIONS CONSIST OF TWO SECTIONS OF W–BEAM GUARDRAIL ELEMENTS, ONE SET INSIDE THE OTHER.
4. ALL SPLICES SHALL BE LAPPED IN DIRECTION OF ADJACENT TRAFFIC.

STATE OF ALASKA
JUDY J. DOUGHERTY
CE 8823
11-26-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

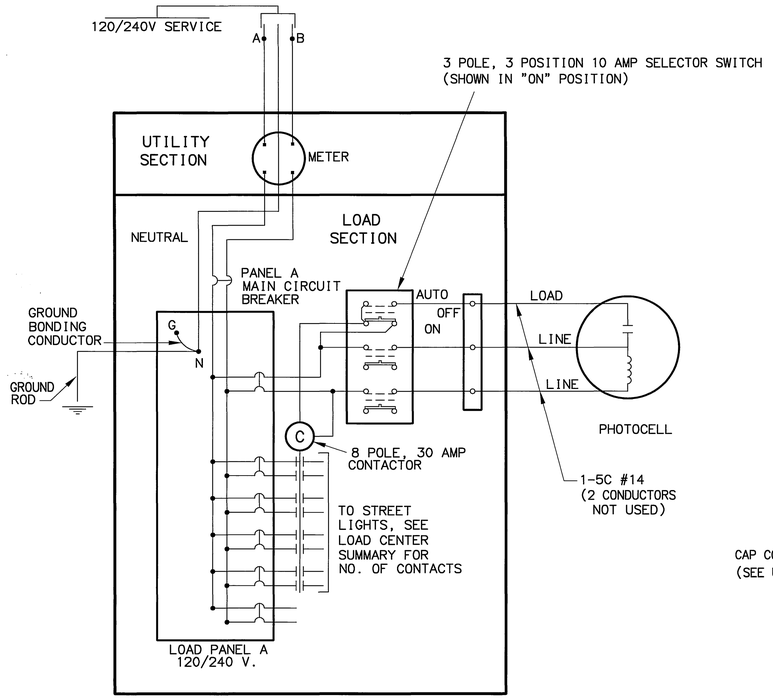
SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

GUARDRAIL DETAILS

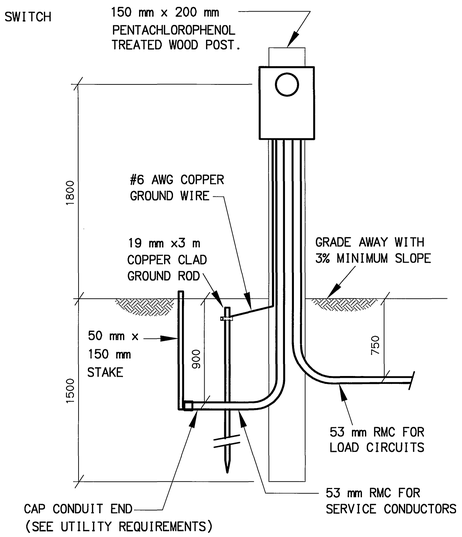
SPECIFICATIONS | DESIGNED BY | VIEWPLOT AT | 11-19-02
SCALE 1=1 | CHECKED BY | KMHANKG
COMPUTER DESIGNATION | DRAFTED BY | AUTOCAD-KAREN-A3697A:DATA\YYGRDPP.DWG

REVISIONS		
No.	DATE	DESCRIPTION
1	3/3/99	REVISED SELECTOR SWITCH WIRING
2	12/15/99	ADDED ALTERNATE DETAIL & REVISED NOTES
3	02/09/01	ADDED CONDUCTORS

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NH-0A3-1(28)/54433	2002	E6	E30

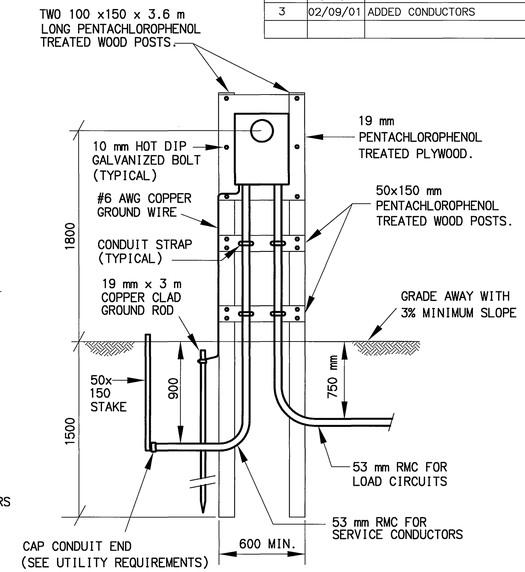


LOAD CENTER ONE LINE DIAGRAM AND SELECTOR SWITCH WIRING



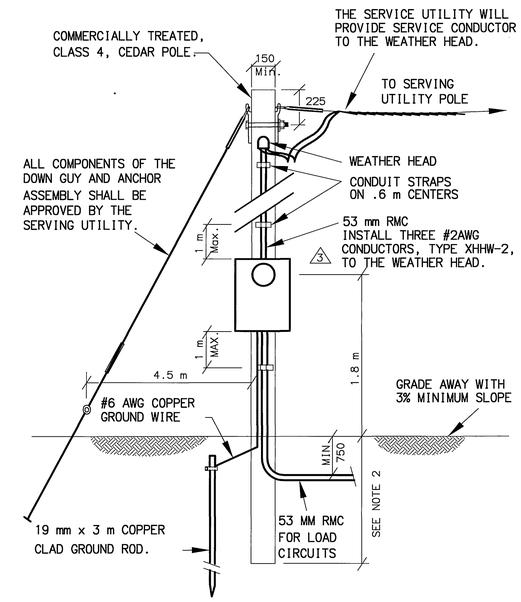
TYPE 2 LOAD CENTER

SINGLE POST - STANDARD



TYPE 2 LOAD CENTER

DUAL POST - ALTERNATE



TYPE 3 LOAD CENTER

WIRING NOTES:

1. FURNISH ALL EQUIPMENT NOTED IN THE LOAD CENTER SUMMARY, PLUS TWO 20-AMP 2-POLE SPARE CIRCUIT BREAKERS, AND SPACE FOR A MINIMUM OF TWO ADDITIONAL TWO-POLE CIRCUIT BREAKERS, IN EACH LOAD PANEL. SEE SUMMARIES FOR LOAD PANEL VOLTAGES, CURRENT RATINGS, SHORT CIRCUIT INTERRUPTING RATINGS, AND THE NAME OF THE SERVING UTILITY.
2. SIZE THE TYPE 2 AND 3 LOAD CENTER CABINETS TO HOLD THE EQUIPMENT SHOWN IN THE WIRING DIAGRAM AND DETAILED IN EACH LOAD CENTER SUMMARY, ALLOWING SPACE FOR WIRING PER THE NATIONAL ELECTRICAL CODE. INSTALLING A METER BASE AND MAIN BREAKER IN A SEPARATE ENCLOSURE IS ALLOWABLE. HOWEVER IN THIS CASE, FURNISH A BREAKER PANEL WITH A MAIN BREAKER.
3. LABEL ALL CIRCUIT BREAKERS AS TO FUNCTION AND POSITION. LABEL THE SELECTOR SWITCH "LIGHTING" AND ITS POSITIONS "ON-OFF-AUTO".
4. THE VOLTAGE FOR THE PHOTOELECTRIC CONTROL EQUIPMENT SHALL BE 240-VOLT, DERIVED FROM THE SERVICE VOLTAGE, OR FROM A CONTROL TRANSFORMER.
5. LABEL ALL CIRCUIT BREAKERS AS TO FUNCTION AND POSITION.
6. INSTALL THE PHOTOELECTRIC CONTROL UNIT ON THE LOAD CENTER AT A HEIGHT TO PREVENT BEING COVERED BY SNOW, AND WITH THE CONTROL WINDOW FACING NORTH AND/OR AWAY FROM ARTIFICIAL LIGHT SOURCES THAT WILL INTERFERE WITH NATURAL AMBIENT LIGHT CONTROL.
7. STORE A SCHEMATIC DIAGRAM, A CIRCUIT DIRECTORY, AND A MATERIALS LIST INCLUDING THE MANUFACTURERS' NAMES AND PART/CATALOG NUMBERS, ALL LAMINATED IN PLASTIC, IN A METAL POCKET ATTACHED TO THE INSIDE OF THE LOAD CENTER.
8. WHEN METAL HALIDE OR MERCURY VAPOR LAMPED FIXTURES ARE USED, PROVIDE A REMOTE BULB THERMOSTAT, SO THAT THE CONTACT CLOSES AND THE LIGHTS TURN ON WHEN THE TEMPERATURE DROPS TO -9°C. WIRE THERMOSTAT SO THAT ITS CONTACT IS PARALLEL THE CONTACT IN THE PHOTOELECTRIC CELL

INSTALLATION NOTES:

1. INSTALL TYPE 3 LOAD CENTER POLES OF SUFFICIENT LENGTH TO PROVIDE THE FOLLOWING MINIMUM GROUND TO SERVICE CONDUCTOR CLEARANCE:
   - A. 6.4 METERS, IF THE SERVICE CONDUCTORS ARE LOCATED ABOVE ROADWAYS OR PARKING AREAS.
   - B. 8.6 METERS IF THE SERVICE CONDUCTORS ARE LOCATED WITHIN 6.1 METERS OF A RAILROAD TRACK.
   - C. 5.5 METERS IN ALL OTHER CIRCUMSTANCES.
2. SET THE BUTT END OF TYPE 3 LOAD CENTER POLES TO THE FOLLOWING MINIMUM DEPTH:
   - A. 10 PERCENT OF ITS LENGTH PLUS 0.6 m, OR 1.5 m, WHICHEVER IS GREATER, IF IT IS INSTALLED IN EARTH OTHER THAN SOLID ROCK OR MUSKEG.
   - B. 10 PERCENT OF ITS LENGTH, OR 1.2 m, WHICHEVER IS GREATER, IF IT IS INSTALLED IN SOLID ROCK.
   - C. CONSIDER MUSKEG TO BE AIR, AND SET THE BUTT ENDS TO THE DEPTH GIVEN IN A OR B, WHICHEVER APPLIES, IN THE UNDERLYING EARTH OR ROCK.

   WHENEVER MORE THAN 0.6 m OF EARTH OVERLAYS ROCK, OR THE DIAMETER OF THE DRILLED HOLE IN ROCK EXCEEDS TWICE THE DIAMETER OF THE POLE AT THE GROUND LINE, CONSIDER THE INSTALLATION AS EARTH.
3. ATTACH ALL CONDUITS TO THE POSTS AND POLES USING TWO HOLE RIGID METAL CONDUIT STRAPS LOCATED ON 0.6 m MAXIMUM CENTERS.
4. ATTACH ALL GROUND CONDUCTORS TO THE POSTS AND POLES USING CABLE STAPLES LOCATED ON 0.3 m CENTERS.

UTILITY REQUIREMENTS:

1. USE THE SINGLE-POST TYPE 2 "STANDARD" LOAD CENTER IN ALL LOCATIONS EXCEPT WHERE THE SERVING UTILITY REQUIRES THE TWO-POST TYPE 2 "ALTERNATIVE" LOAD CENTER. REFER TO THE LOAD CENTER SUMMARY FOR WHICH TO INSTALL.
2. THE LENGTH AND TYPE OF SERVICE ENTRANCE CONDUIT INSTALLED BY THE CONTRACTOR VARIES BY UTILITY. REGARDLESS OF ITS LENGTH, INSTALL A PULL ROPE IN THE SERVICE CONDUIT AND A CAP ON THE BURIED END: MARK THE BURIED END WITH A 50 mm X 150 mm STAKE. SEE THE LOAD CENTER SUMMARIES FOR THE FOLLOWING INFORMATION.
   - A. STATION AND OFFSET OF THE LOAD CENTER AND POWER SOURCE.
   - B. WHERE THE CONTRACTOR TERMINATES THE SERVICE ENTRANCE CONDUIT.
   - C. THE TYPE OF SERVICE ENTRANCE CONDUIT (SUCH AS RIGID METAL CONDUIT OR LIQUID-TIGHT FLEXIBLE METAL CONDUIT).
   - D. THE MAXIMUM AND MINIMUM DISTANCES ALLOWED BETWEEN THE TYPE-3 LOAD CENTER POLE AND UTILITY POLE TO WHICH THE AERIAL DROP IS CONNECTED.

ALL DIMENSIONS IN MILLIMETER (mm) UNLESS OTHERWISE NOTED.

STATE OF ALASKA
49TH
MICHAEL L. STOIANOFF
EE 6391
REGISTERED PROFESSIONAL ENGINEER
6/18/2002

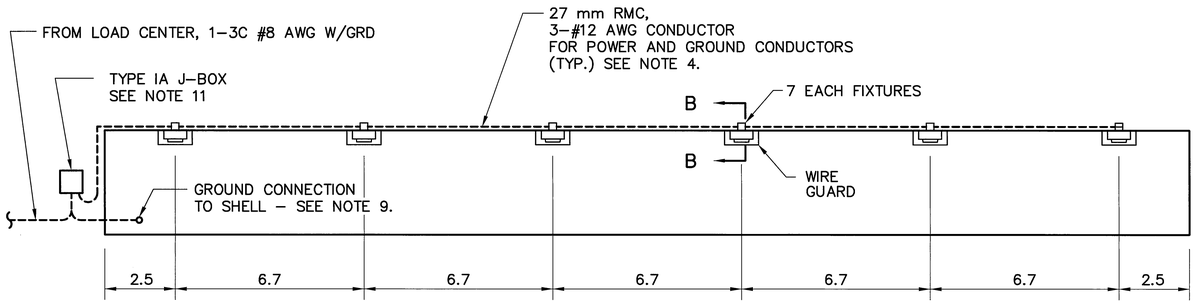
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

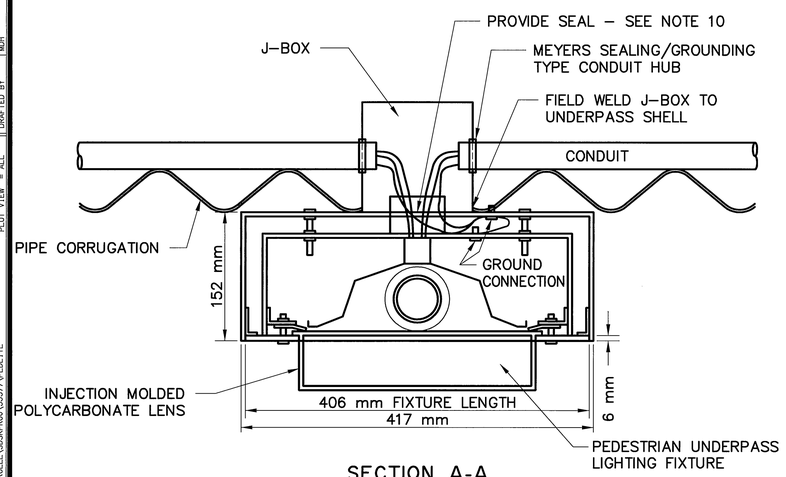
TYPE 2 AND 3
LOAD CENTER DETAILS

SPECIFICATIONS
SCALE: 1:1
COMPUTER DESIGNATION
AUTOCAD-CAROLEE-TRAFFIC\S5577\ML-DETZ_3
PLOT SCALE: 1:1
DESIGNED BY
CHECKED BY
DRAFTED BY MDH
6/25/02

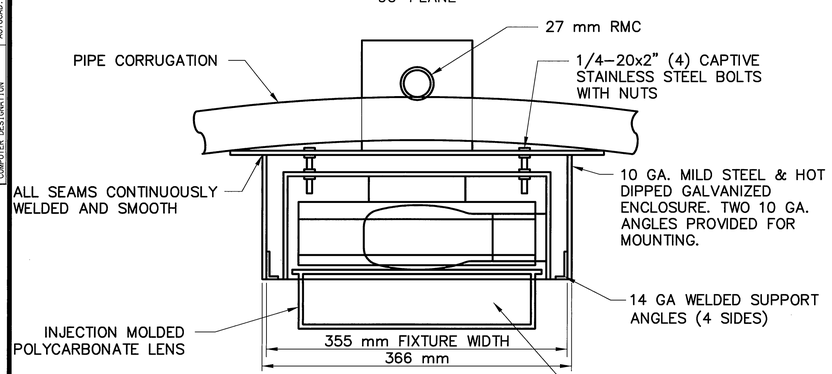
REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	NH-0A3-I(28)/54433	2002	E7	E30



PEDESTRIAN UNDERCROSSING LIGHTING



SECTION A-A
90° PLANE

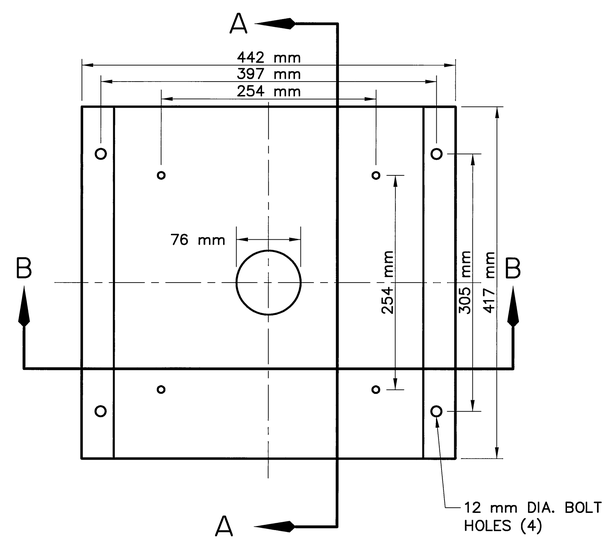


SECTION B-B
0° PLANE

Summary of Load Center: A		
Load center type:	2	
	Location Data:	
Load center:	20.0 meters right of station	40+460
Power source:	36.0 meters right of station	40+675
Photoelectric control:	None required	
Service voltage:	1 phase, 3 wire, 120/240 with grounded neutral	volts AC
Provide meter socket?	Yes	
Main Breaker A:	240 volt, 2 pole,	100 amperes
Contactor :	None required	

Panel A

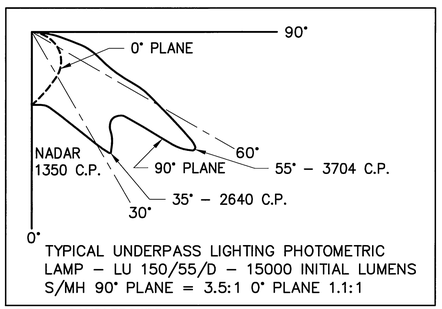
Circuit Number	Description	KVA Load	Breaker Amps	Breaker Poles
DA1	Pedestrian Undercrossing Luminaires	1.3	20	2
DA2	Spare		20	2
DA3	Spare		20	2
DA4	Spare		20	2
DA5	Spare		20	2
DA6	Spare		20	2



PLAN VIEW

LIGHTING NOTES:

1. INITIAL LIGHTING LEVEL - 110 LUX. UNIFORMITY RATIO - AVERAGE TO MIN. NOT TO EXCEED 3.0:1.
2. ENCLOSURE SHALL BE FABRICATED FROM 10 GAUGE MILD STEEL. ALL SEAMS TO BE CONTINUOUSLY WELDED AND GROUND SMOOTH. FIXTURE SUPPORT BOLTS IN THE ENCLOSURE SHALL MATCH THE MOUNTING HOLES IN THE SELECTED FIXTURE. SUPPORT ANGLES ON THE ENCLOSURE SHALL BE ATTACHED TO THE ENCLOSURE WITH 25 mm WELDS SPACED A MAXIMUM OF 75 mm ON CENTER, OR WITH CONTINUOUS WELDS. ENCLOSURE TO BE HOT DIPPED GALVANIZED AFTER FABRICATION. THREADED FASTENERS SHALL NOT BE GALVANIZED, AND THREADED HOLES TO BE TAPPED AFTER GALVANIZING. CONTRACTOR SHALL VERIFY THE DIMENSIONS OF THE FIXTURE PRIOR TO FABRICATING ENCLOSURE.
3. CONDUITS TO THE JUNCTION BOXES TO BE SUPPORTED BY THE SHELL OF THE TUNNEL, AND ATTACHED WITH GALVANIZED CONDUIT CLAMPS ATTACHED TO THE TUNNEL SHELL WITH EITHER POWDER DRIVEN FASTENERS OR SELF TAPPING BOLTS. SPACING OF CLAMPS NOT TO EXCEED 1.5 METERS, AND WITHIN 0.5 METERS OF THE JUNCTION BOX.
4. CONDUCTORS INSIDE OF ENCLOSURE THAT CAN CONTACT THE BALLAST SHALL BE RATED 200°C, SF-2 OR EQUAL. A TERMINAL STRIP, MOUNTED IN THE ENCLOSURE, MAY BE USED TO CONNECT WIRES WITH A LOWER TEMPERATURE RATED WIRING TO THE 200°C WIRING, OR THE WIRES MAY BE SPLICED OUTSIDE OF THE ENCLOSURE IN THE J-BOX. WIRING ENTERING THE ENCLOSURE, THROUGH THE TOP, SHALL BE PROVIDED WITH A WATER TIGHT COMPRESSION SEAL.
5. ATTACH JUNCTION BOXES TO THE TUNNEL SHELL BY CONTINUOUS WELDS.
6. ENCLOSURE TO BE ATTACHED TO THE TUNNEL SHELL EITHER BY CAPTIVE, OR SELF TAPPING, STAINLESS STEEL BOLTS, SO THAT THE ENCLOSURES CAN BE INSTALLED, AND REMOVED, FROM INSIDE THE TUNNEL.
7. CAP ALL UNUSED OPENINGS IN ELECTRICAL ITEMS WITH WATER PROOF PLUGS.
8. FIXTURES ARE TO BE INSTALLED CENTERED IN THE TUNNEL SO THAT THE 90° PLANE LIGHT DISTRIBUTION IS IN LINE WITH THE LONGITUDINAL DIMENSION OF THE TUNNEL.
9. GROUNDING: ALL LIGHTING ENCLOSURES SHALL BE CONNECTED TO THE GROUND IN THE TYPE 1A JUNCTION BOX, WITH A CONTINUOUS CONDUCTOR INSTALLED IN THE CONDUIT. THE JUNCTION BOX GROUND CONDUCTOR SHALL BE A MINIMUM OF #6 AWG BARE COPPER CONNECTED TO THE SHELL OF THE TUNNEL INSTEAD OF A GROUND ROD. CONNECTION TO THE TUNNEL SHALL BE MADE USING A COMPRESSION FITTING BOLTED OR THERMITE WELDED. (CADWELD, THERMOWELD, OR EQUIVALENT).
10. PROVIDE A WATER TIGHT FITTING WHERE THE CONDUCTORS ENTER THE ENCLOSURE. THE SEAL AROUND THE CONDUCTORS SHALL USE A RUBBER GROMMET COMPRESSED WITH AN EXTERNAL TREADED CAP.
11. THE TYPE 1A JUNCTION BOX FEEDING THE UNDERPASS LIGHTING SHALL BE LOCATED LOWER THAN THE JUNCTION BOXES FEEDING THE LIGHT FIXTURES TO ALLOW CONDUITS TO DRAIN.
12. PROVIDE AND INSTALL S.E.C. MODEL LG-191511-C-1X1 OR EQUAL HEAVY DUTY STEEL WIRE GUARDS.



TYPICAL UNDERPASS LIGHTING PHOTOMETRIC
LAMP - LU 150/55/D - 15000 INITIAL LUMENS
S/MH 90° PLANE = 3.5:1 0° PLANE 1.1:1

C.P. = CANDLEPOWER

STATE OF ALASKA
49TH
MICHAEL L. STOMAN
EE 6398
REGISTERED PROFESSIONAL ENGINEER
6/18/2002

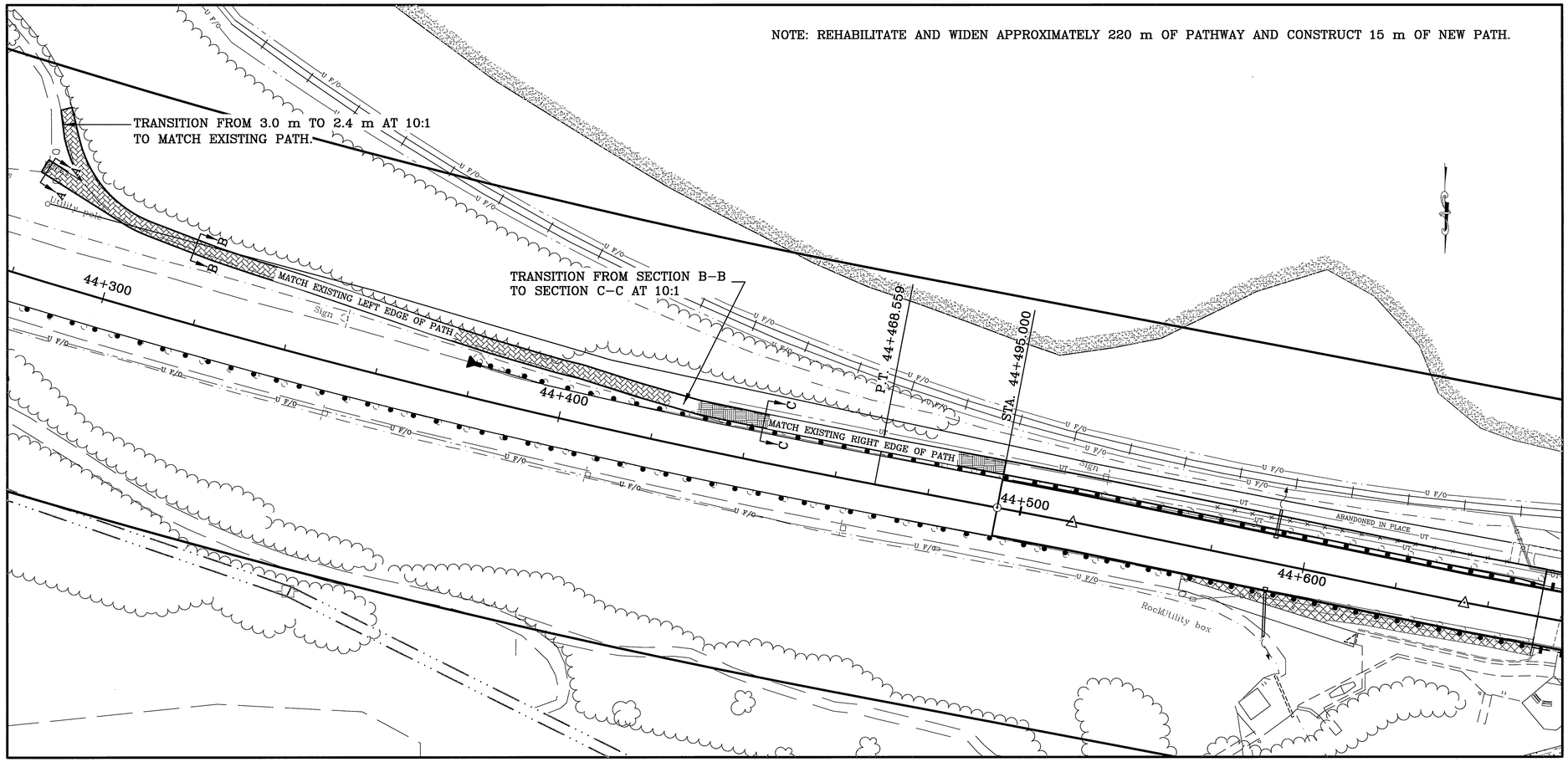
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

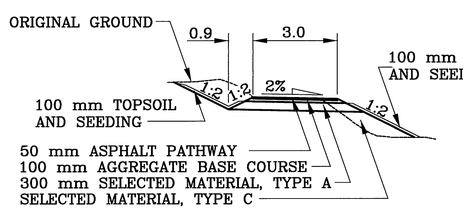
SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

PEDESTRIAN
UNDERCROSSING ILLUMINATION

SPECIFICATIONS
SCALE: 1=1
COMPUTER DESIGNATION
AUTOCAD: CARLEE:\SBSKPROJ\SB37\VEDLITE
PLOT SCALE: 1=1
PLOT VIEW = ALL
DESIGNED BY
CHECKED BY
DRAFTED BY
MDH
6/12/02

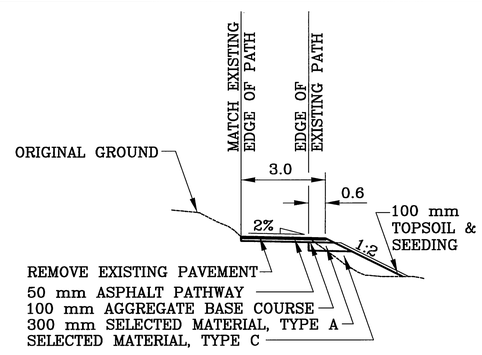
NOTE: REHABILITATE AND WIDEN APPROXIMATELY 220 m OF PATHWAY AND CONSTRUCT 15 m OF NEW PATH.



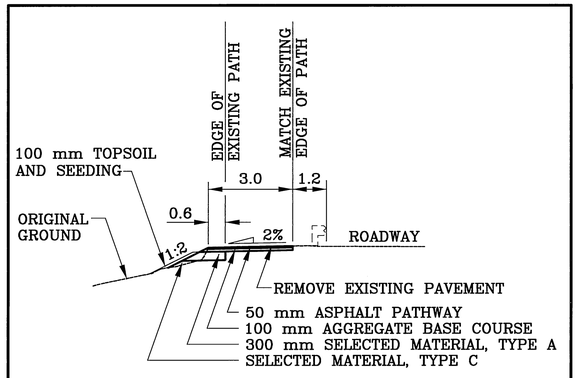


SECTION A–A

NOTE: GRADE NOT TO EXCEED 5%



SECTION B–B



SECTION C–C

SHEET NO.	TOTAL SHEETS
E8	E30
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

NH–0A3–1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION

NOTE:
DIMENSIONS ARE IN METERS
UNLESS OTHERWISE NOTED.

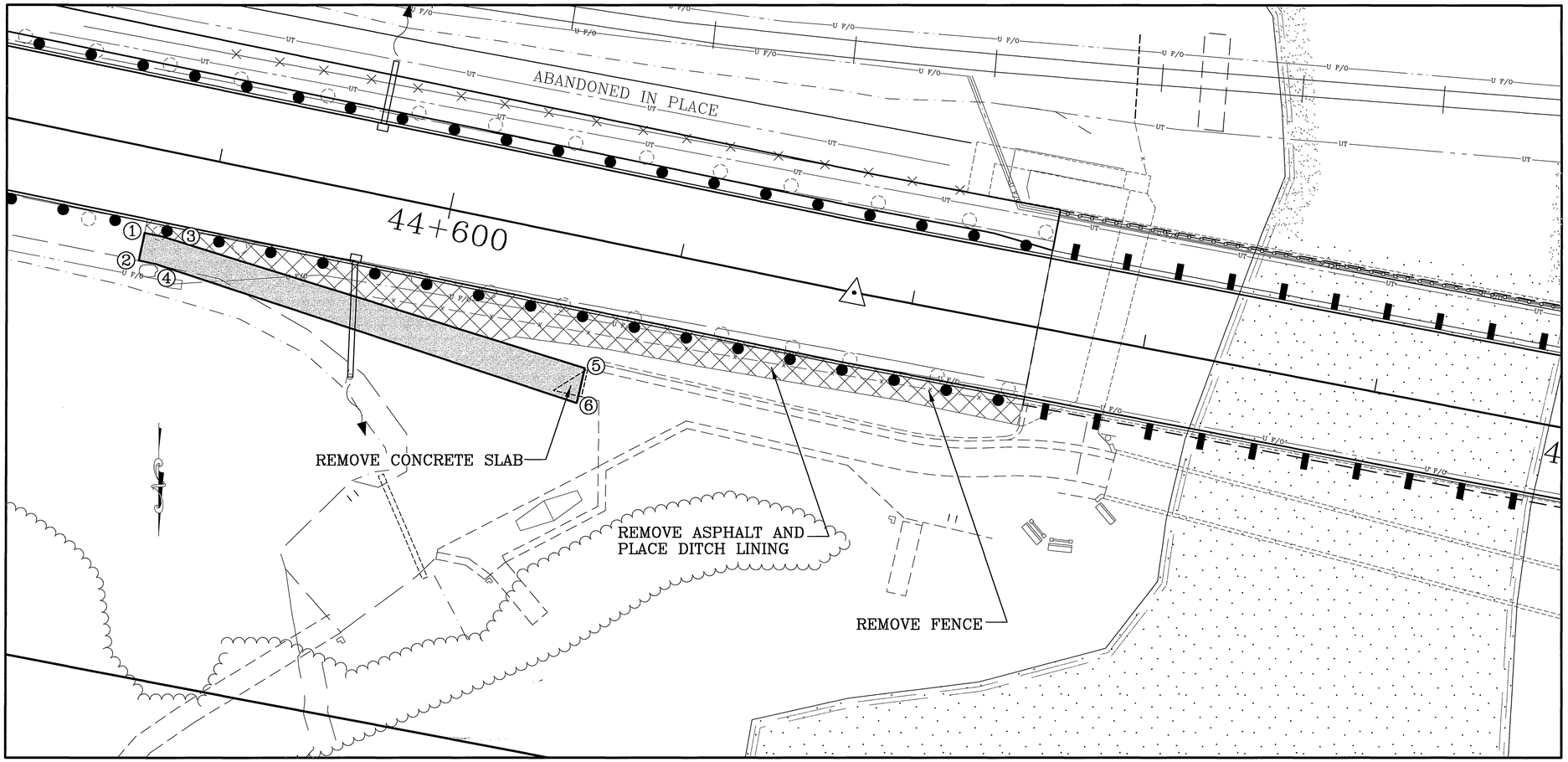
STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
6-19-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

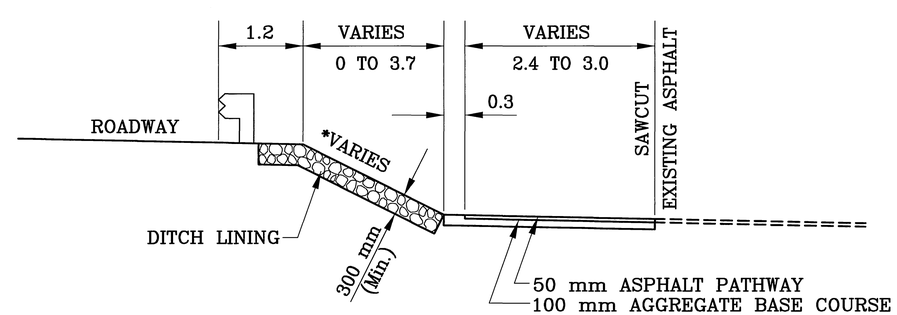
SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

BIRD CREEK PATHWAY
REHABILITATION DETAIL

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-KAREN-
D:\SSSPROJ\3577\DATA\INDHB\RD\77TRANS1.DWG 8-22-01 9:27:38 am EST
VIEWHALF01 AT 5
DESIGNED BY
CHECKED BY
DRAFTED BY
KMH



PATHWAY DETAIL TABLE		
POINT	STATION	OFFSET
①	44+575.000	7.2 RT.
②	44+595.000	9.6 RT.
③	44+576.585	7.2 RT.
④	44+576.585	9.6 RT.
⑤	44+613.907	10.9 RT.
⑥	44+613.907	14.0 RT.



* WARP SLOPE TO CATCH EDGE OF GUARDRAIL WIDENING SECTION

SHEET NO.	TOTAL SHEETS
E9	E30
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION

NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
6-18-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

PATHWAY
DETAIL

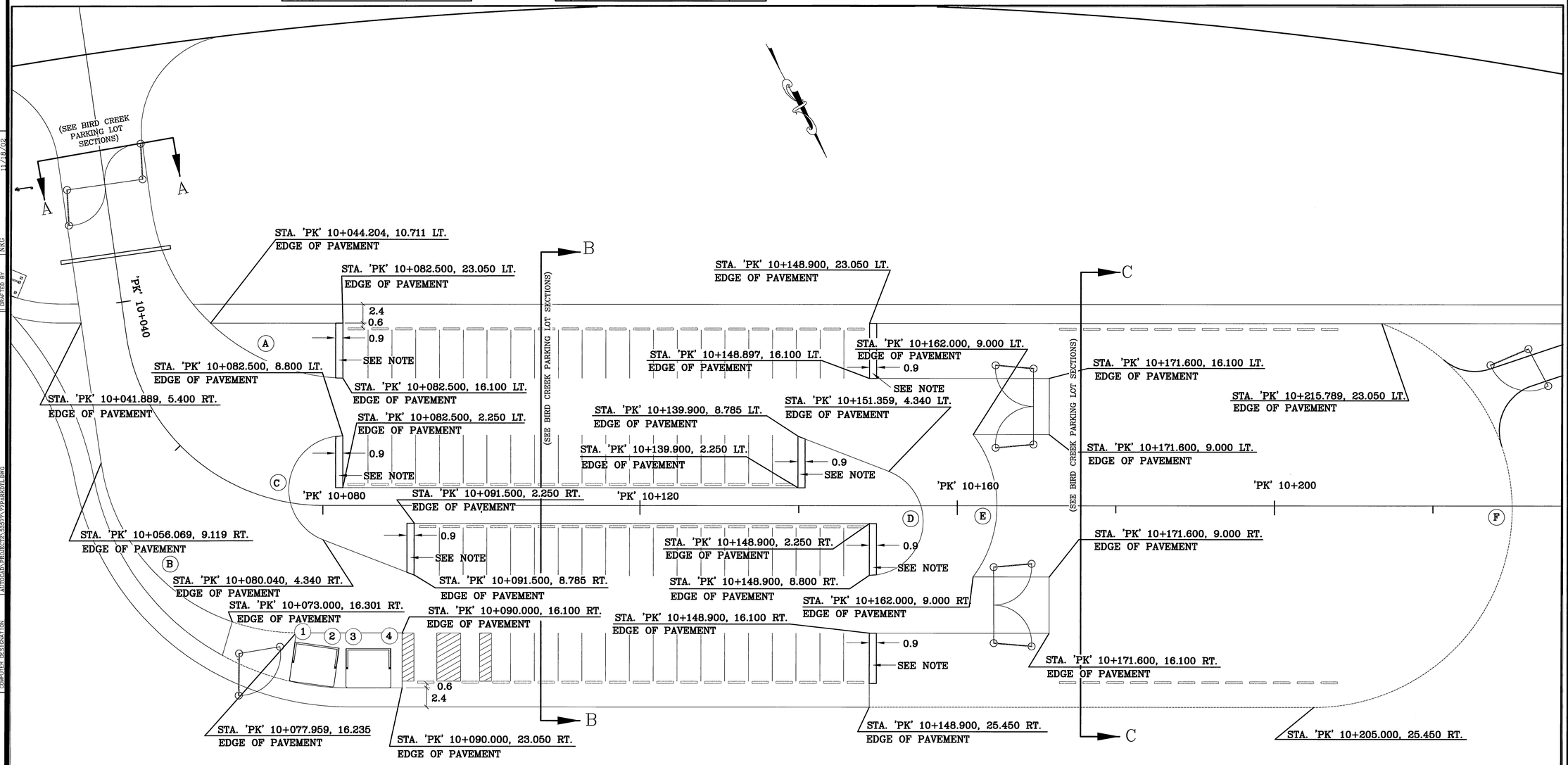
SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-KARDS-
D:\SDSKPRO\X5577\DATA\NDNBIRD\72CONNECT.DWG 8-22-01 9:50:46 am EST
VIEW= HALF01 AT 2
DESIGNED BY
CHECKED BY
DRAFTED BY
KMH

LAYOUT TABLE		
POINT	STATION	OFFSET
①	'PK' 10+077.922	17.4 RT.
②	'PK' 10+082.073	18.0 RT.
③	'PK' 10+082.939	18.1 RT.
④	'PK' 10+088.579	18.1 RT.

RADIUS TABLE			
POINT	STATION	OFFSET	RADIUS
Ⓐ	'PK' 10+028.799	30.4 LT.	25.0
Ⓑ	'PK' 10+075.172	8.6 LT.	25.0
Ⓒ	'PK' 10+082.500	2.0 LT.	6.8
Ⓓ	'PK' 10+148.900	2.0 RT.	6.8
Ⓔ	'PK' 10+150.000	CENTERLINE	15.0
Ⓕ	'PK' 10+205.000	0.5 RT.	25.0

REVISIONS		
No.	DATE	DESCRIPTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0A3-1(28)	2002	E10	E30



NOTE: LEAVE 900 mm WIDE EXPOSED AGGREGATE BASE COURSE ADJACENT TO PARKING SPACES AS SHOWN IN LAYOUT PLAN. DO NOT TOPSOIL OR SEED THESE AREAS.

STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
11-26-02
REGISTERED PROFESSIONAL ENGINEER

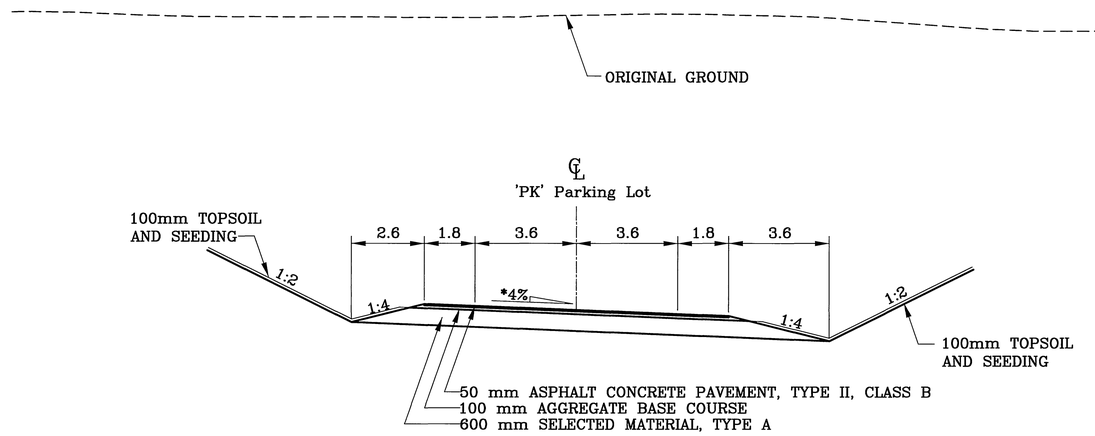
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

BIRD CREEK PARKING LOT
LAYOUT

DESIGNED BY
CHECKED BY
DRAFTED BY NKG
11/18/02
VIEW= HALFO1 AT 25
SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD:\PROJECTS\5527\V7\PARKOTL.DWG

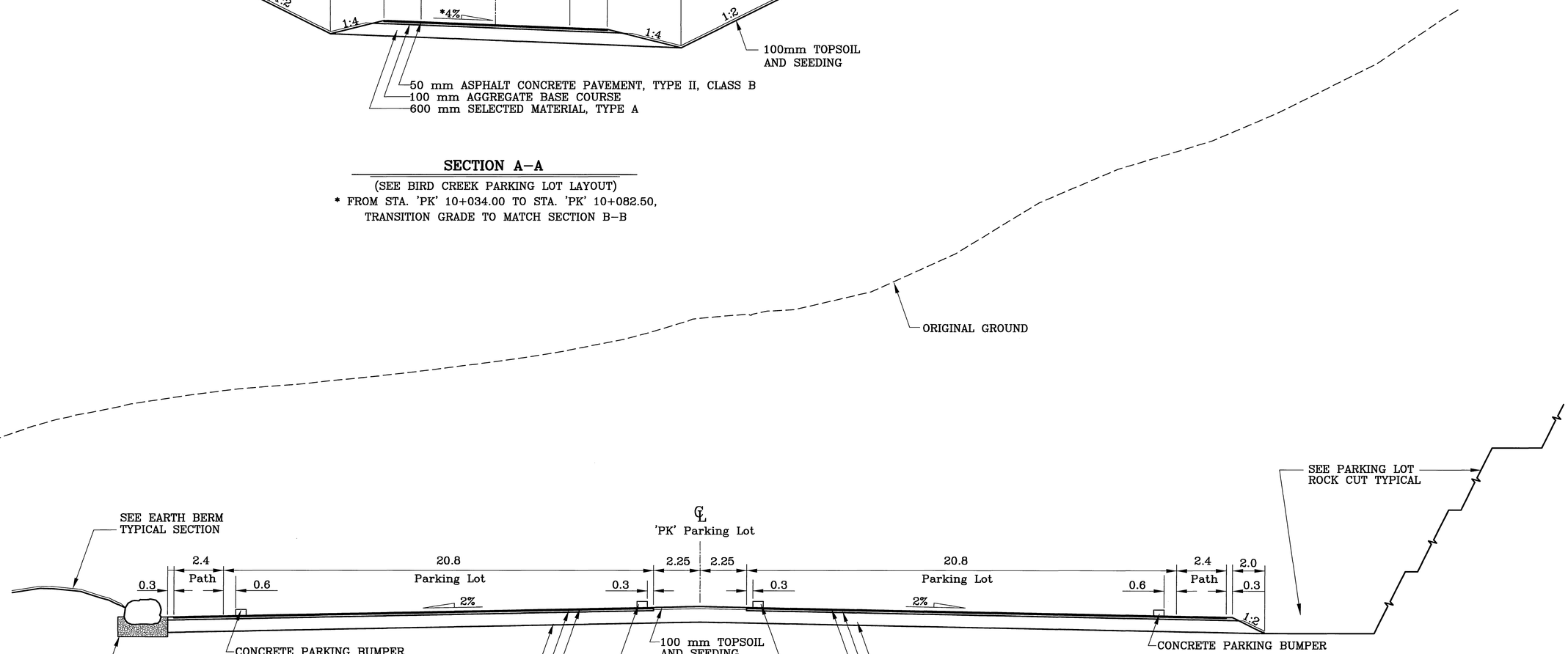
REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	E11	E30



SECTION A–A

(SEE BIRD CREEK PARKING LOT LAYOUT)

* FROM STA. 'PK' 10+034.00 TO STA. 'PK' 10+082.50, TRANSITION GRADE TO MATCH SECTION B–B



SECTION B–B

(SEE BIRD CREEK PARKING LOT LAYOUT)

STATE OF ALASKA
JUDY J. DOUGHERTY
CE 8823
11-26-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

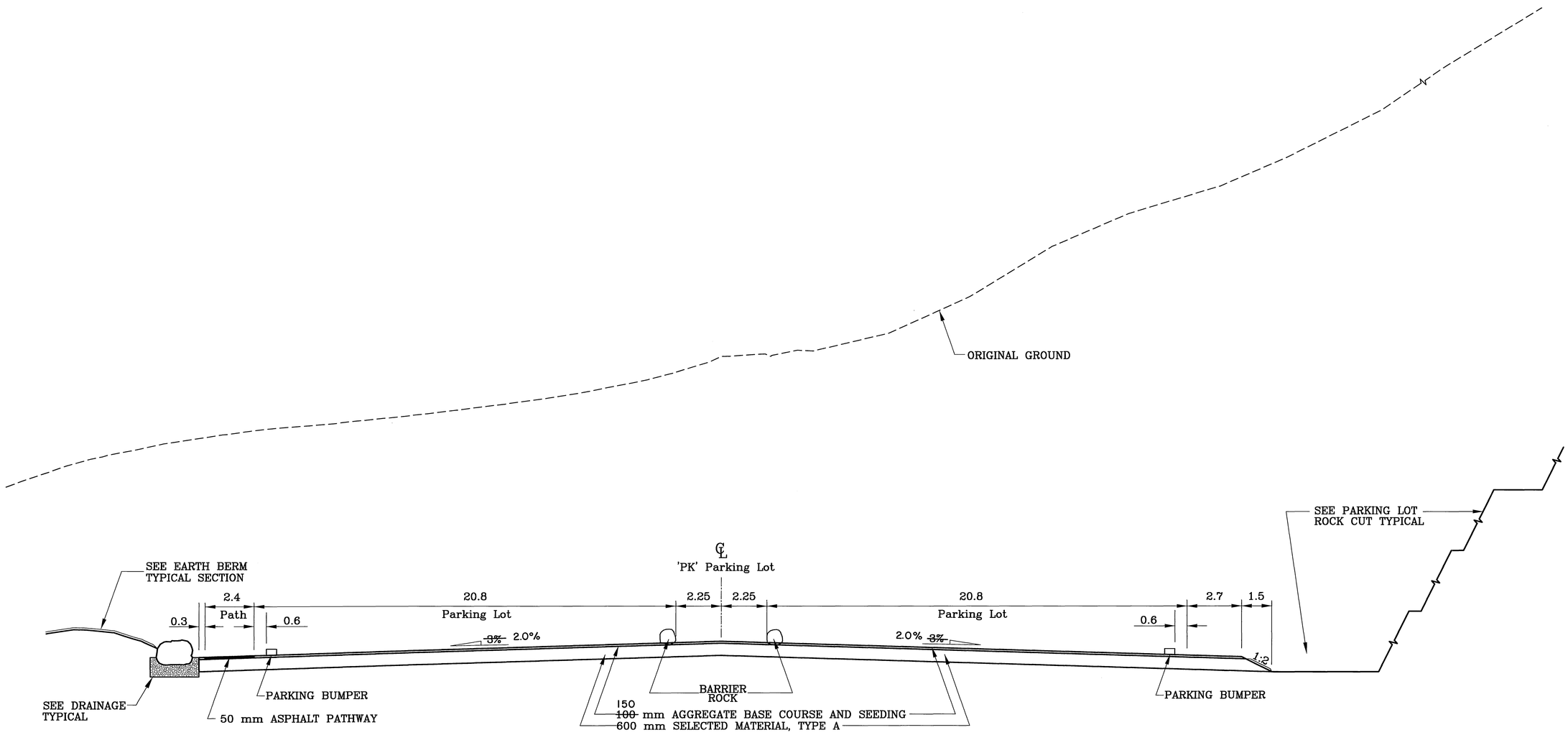
SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

BIRD CREEK PARKING LOT
SECTIONS

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-X:\DREW-5597\DATA\7FB0TTP.DWG 11-19-02
VIEW=SECT-1 at 1
DESIGNED BY
CHECKED BY
DRAFTED BY
KMH

REVISIONS		
No.	DATE	DESCRIPTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0A3-1(28)	2002	E12	E30



SECTION C-C

(SEE BIRD CREEK PARKING LOT LAYOUT)

STATE OF ALASKA
JUDY J. DOUGHERTY
CE 8823
11-26-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

BIRD CREEK PARKING LOT
SECTIONS

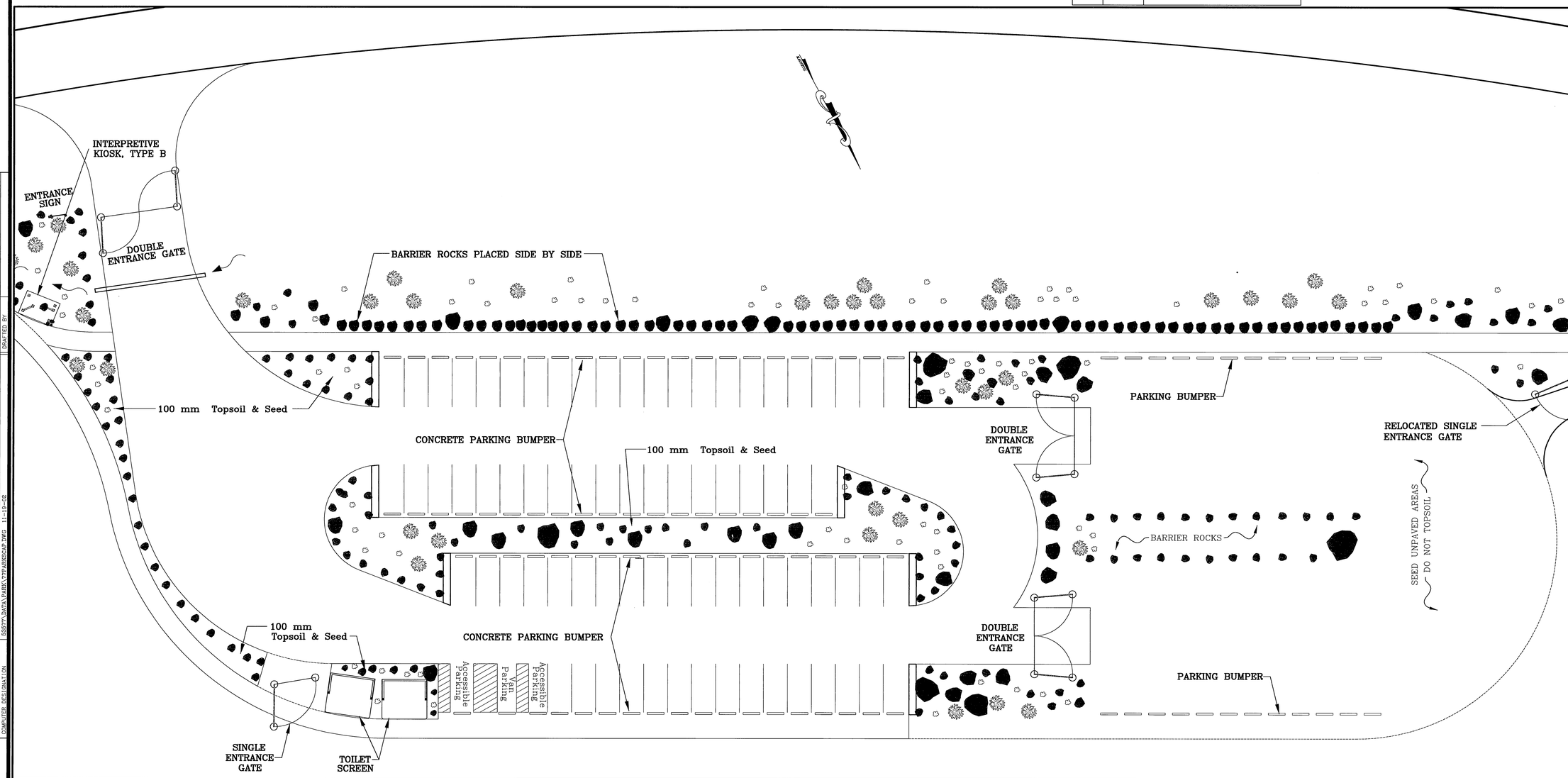
DESIGNED BY
CHECKED BY
DRAFTED BY KMH

VIEW=SECT-2 AT 1

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION AUTOCAD-ADRS\c-5397\DATA\72B07TP.DWG 11-20-02

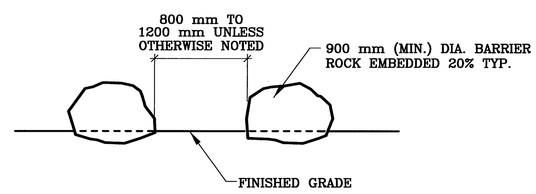
REVISIONS		
No.	DATE	DESCRIPTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0A3-1(28)	2002	E13	E30



LEGEND

- PRICKLY ROSE 0.6 m
- WHITE SPRUCE 1.2 m



BARRIER ROCK

STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
11-26-02
REGISTERED PROFESSIONAL ENGINEER

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

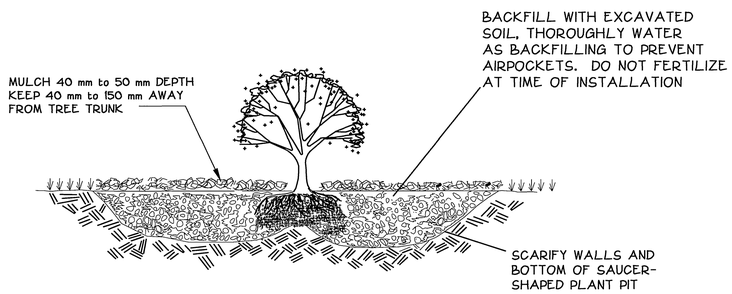
SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY & RECREATIONAL IMPROVEMENTS

BIRD CREEK PARKING LOT LANDSCAPING PLAN

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION 53577\DATA\PARK\77PARKSCAP.DWG 11-19-02
VIEW= HALF01 AT .25
DESIGNED BY
CHECKED BY
DRAFTED BY

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	E14	E30

BARE-ROOT SHRUB



MINIMUM RADIUS OF PLANT PIT 2-3 TIMES ROOTBALL DIAMETER. DEPTH VARIES DEPENDING ON ROOTBALL THICKNESS. SOIL LOOSENED AND SUITABLE FOR ROOT GROWTH, 300 mm DEEP AND 4-5 TIMES ROOTBALL DIAMETER. LEAVE PEDESTAL OF UNDISTURBED SOIL IN CENTER OF PIT.

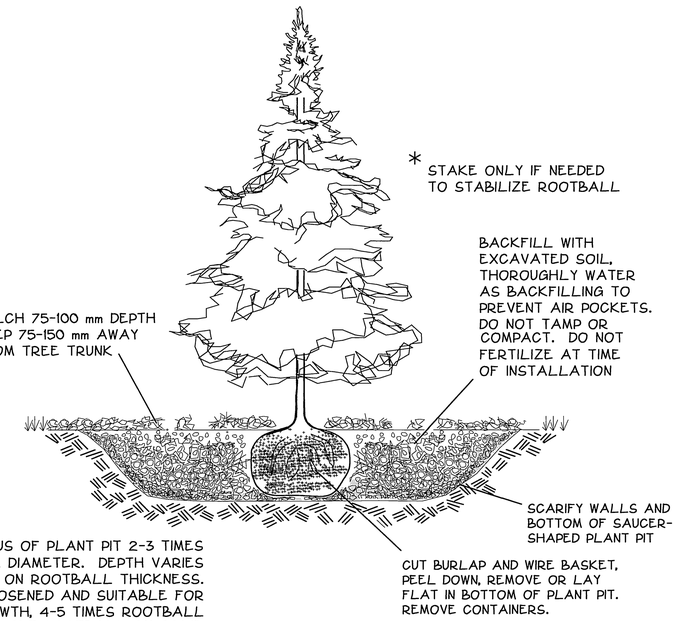
PLANT SHRUB WITH TRUNK FLARE AT OR UP TO 25 mm ABOVE FINISHED GRADE. PLACE SHRUB ON PEDESTAL WITH ROOTS SPREAD IN A NATURAL POSITION.

DECEMBER 1995
ALASKA DIVISION OF FORESTRY
URBAN & COMMUNITY
FORESTRY PROGRAM

LANSCAPE\NEWTREES 1:30 2/97

ADOPTED BY CENTRAL REGION
ADOT & PF 1996.

EVERGREEN TREE

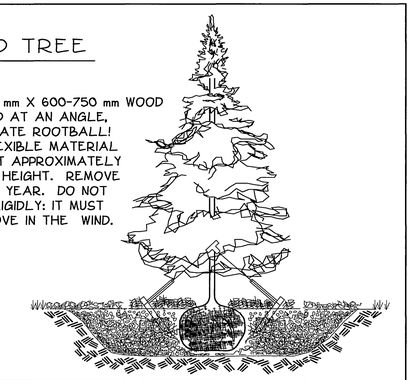


MINIMUM RADIUS OF PLANT PIT 2-3 TIMES ROOTBALL DIAMETER. DEPTH VARIES DEPENDING ON ROOTBALL THICKNESS. SOIL LOOSENED AND SUITABLE FOR ROOT GROWTH, 4-5 TIMES ROOTBALL DIAMETER. SET ROOTBALL ON SOLID GROUND TO PREVENT SETTLING.

PLANT TREE WITH TRUNK FLARE AT OR UP TO 25 mm ABOVE FINISHED GRADE.

*STAKED TREE

USE THREE 50 mm X 50 mm X 600-750 mm WOOD STAKES, EMBED AT AN ANGLE, DO NOT PENETRATE ROOTBALL! USE A SOFT, FLEXIBLE MATERIAL FOR TIES. TIE AT APPROXIMATELY ONE-THIRD TREE HEIGHT. REMOVE TIE AFTER ONE YEAR. DO NOT STAKE TREE RIGIDLY: IT MUST BE ABLE TO MOVE IN THE WIND.



MARCH 1996
ALASKA DIVISION OF FORESTRY
URBAN & COMMUNITY
FORESTRY PROGRAM

LANSCAPE\NEWTREES 1:30 2/97

ADOPTED BY CENTRAL REGION
ADOT & PF 1996.

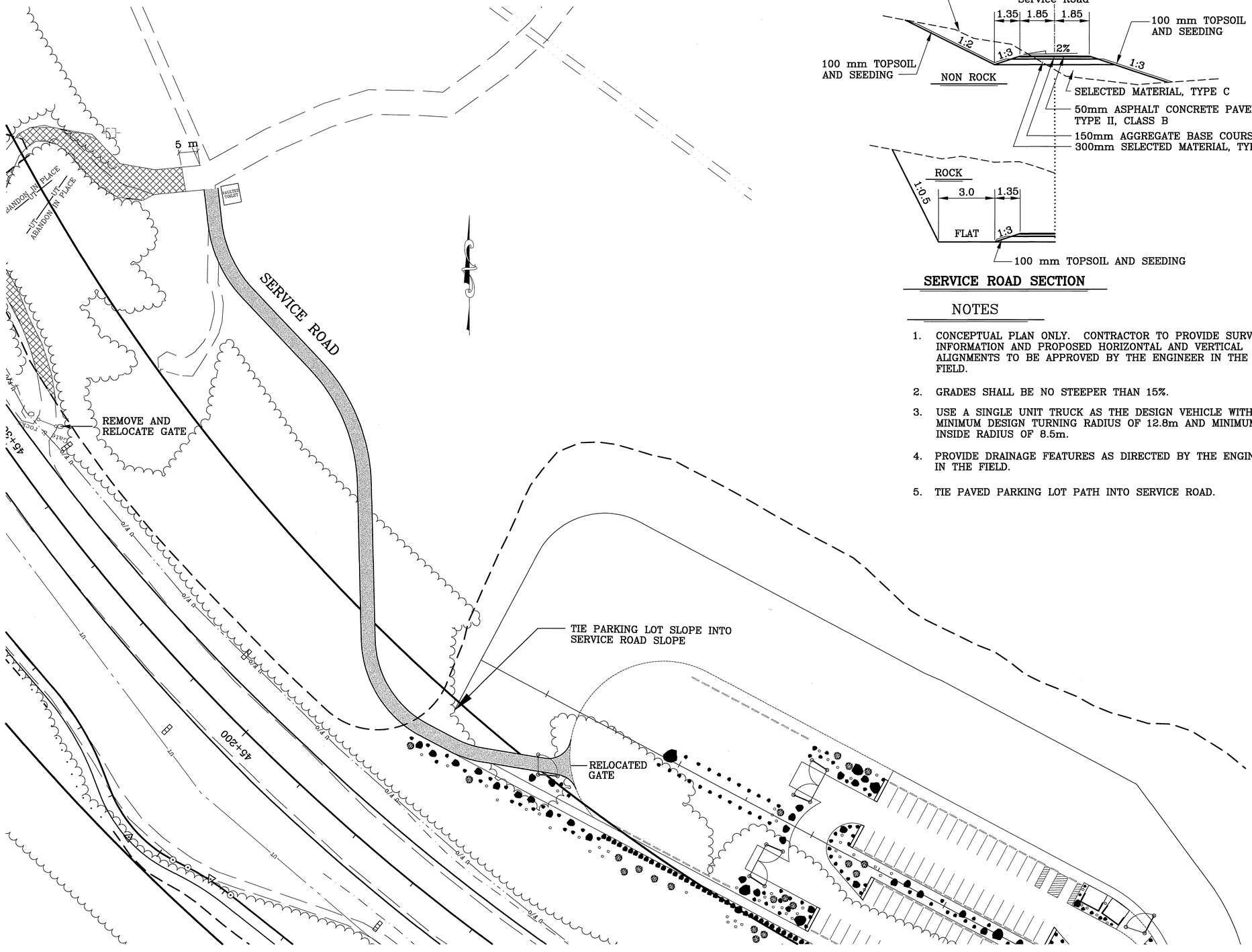
SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION D:\SESKEPROJ\55577\DATA\INDIANBIRD\PARK\77PARKSCAP.DWG 8-22-01 10:02:26 am EST
VIEW= HALF01 AT 25
DESIGNED BY
CHECKED BY
DRAFTED BY

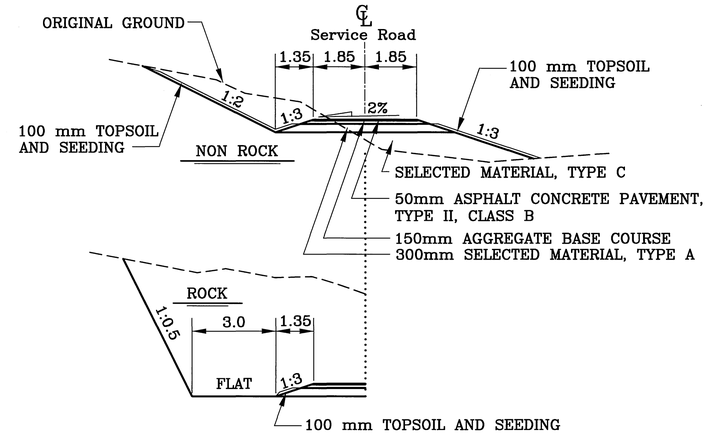
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

BIRD CREEK PARKING LOT
PLANT DETAILS

STATE OF ALASKA 49TH JUDY J. DOUGHERTY CE 8823 6-18-02 REGISTERED PROFESSIONAL ENGINEER





SERVICE ROAD SECTION

NOTES

1. CONCEPTUAL PLAN ONLY. CONTRACTOR TO PROVIDE SURVEY INFORMATION AND PROPOSED HORIZONTAL AND VERTICAL ALIGNMENTS TO BE APPROVED BY THE ENGINEER IN THE FIELD.
2. GRADES SHALL BE NO STEEPER THAN 15%.
3. USE A SINGLE UNIT TRUCK AS THE DESIGN VEHICLE WITH A MINIMUM DESIGN TURNING RADIUS OF 12.8m AND MINIMUM INSIDE RADIUS OF 8.5m.
4. PROVIDE DRAINAGE FEATURES AS DIRECTED BY THE ENGINEER IN THE FIELD.
5. TIE PAVED PARKING LOT PATH INTO SERVICE ROAD.

SHEET NO.	TOTAL SHEETS
E15	E30
STATE	YEAR
ALASKA	2002
PROJECT DESIGNATION	
NH-0A3-1(28)	
ADDENDUM NO.	
ATTACHMENT NO.	

REVISIONS

NO.	DATE	DESCRIPTION

NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

STATE OF ALASKA 49TH JUDY J. DOUGHERTY CE 8823 REGISTERED PROFESSIONAL ENGINEER 12-23-02

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY & RECREATIONAL IMPROVEMENTS

BIRD CREEK SERVICE ROAD DETAIL SHEET

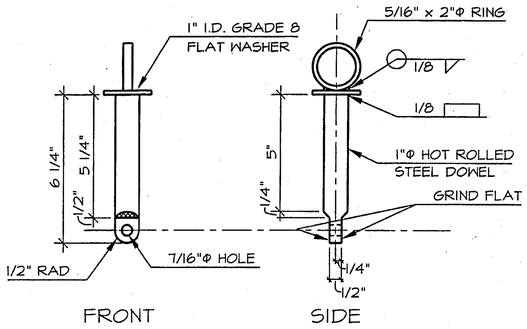
SPECIFICATIONS
SCALE 1:1
COMPUTER DESIGNATION: AUTOCAD-KARE>
53977\DATA\7781BIRPSR.DWG 11-21-02

DESIGNED BY
CHECKED BY
DRAFTED BY KMH

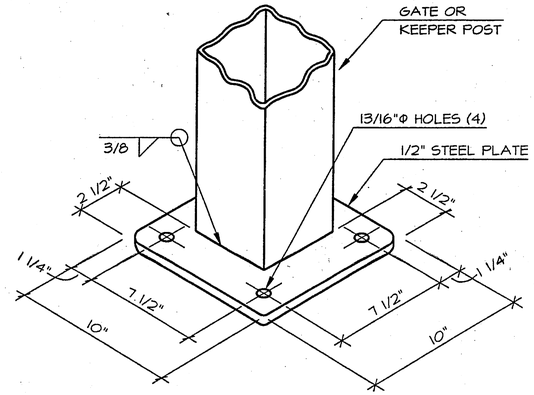
VIEW= HALF(1) AT .5

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0A3-1(28)	2001	E16	E 30

NOTE:
DIMENSIONS ON THIS SHEET ARE IN ENGLISH UNITS.

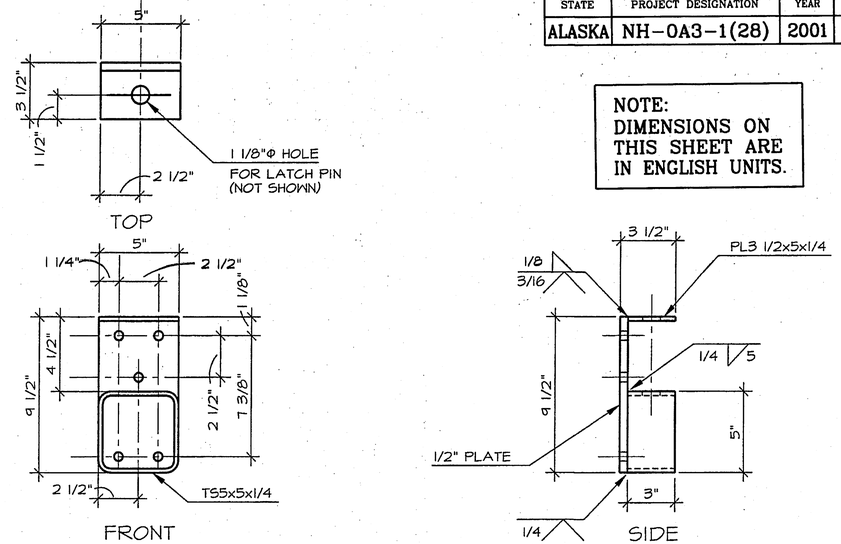


1 LATCH PIN

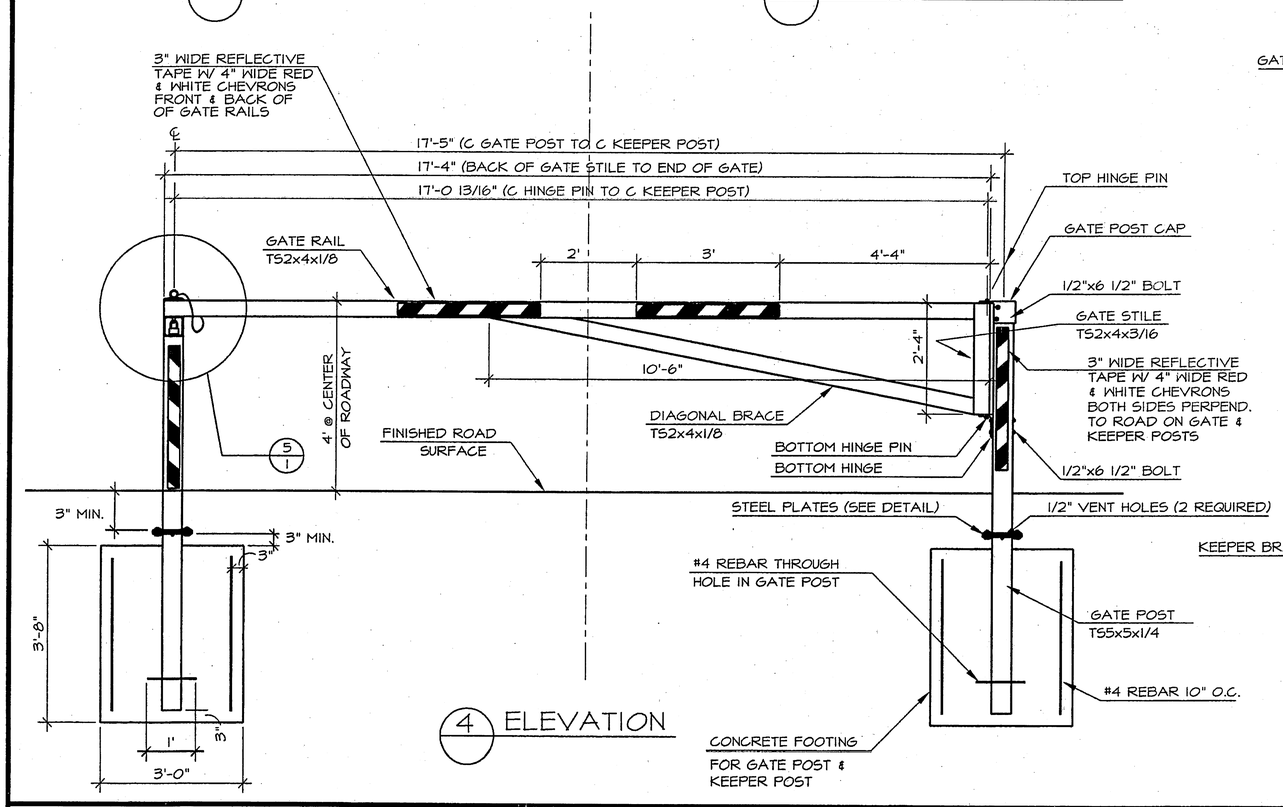


NOTE: FASTEN PLATES WITH 4 - 3/4" x 2" STEEL BOLTS WITH FLAT WASHERS, LOCK WASHERS, AND NUTS

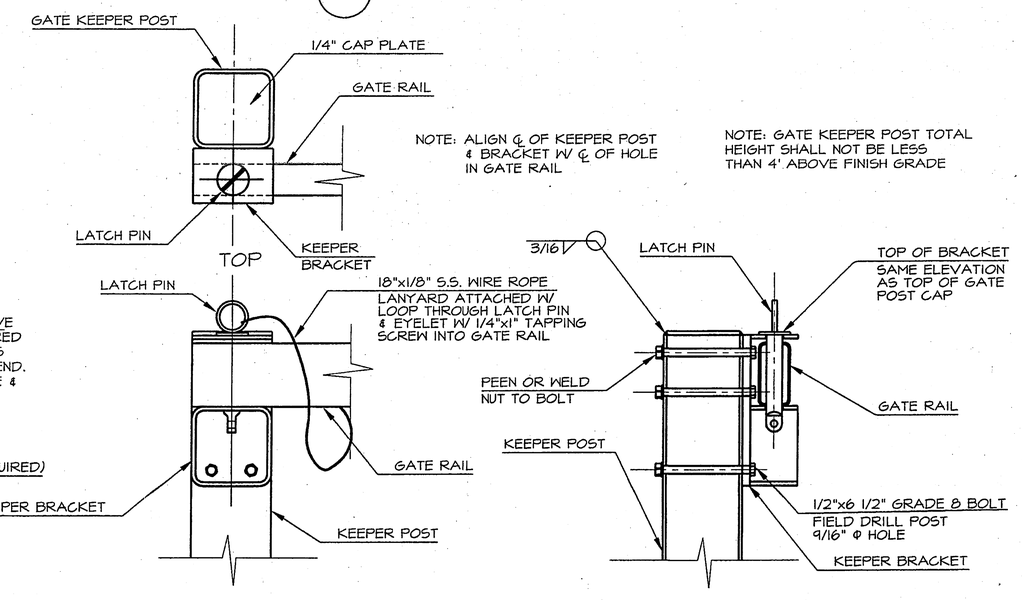
2 STEEL PLATE (TYP.)



3 KEEPER BRACKET



4 ELEVATION



5/1 KEEPER POST

NO.	REVISION	DATE	APPROVED
11	MOD. WELD SYMBOLS & PLATE HOLE SIZES	4/98	DH
10	REDESIGN & REDRAW	2/98	DH

STATE OF ALASKA 49TH Thomas A. Young CE - 4228 Registered Professional Engineer

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF PARKS AND OUTDOOR RECREATION STATE OF ALASKA

DESIGN & CONSTRUCTION SECTION

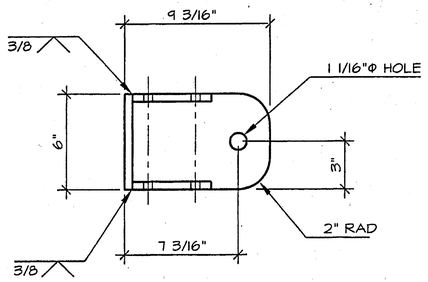
SINGLE GATE

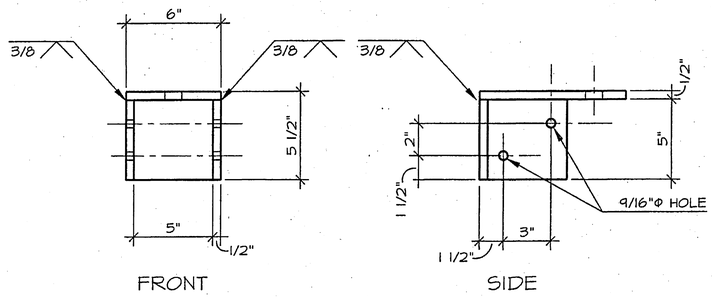
PREPARED:
DRAWN: RK
REVIEWED: DH TY
DATE: 10/14/85

SHEET 1
G-1
OF 2 SHEETS

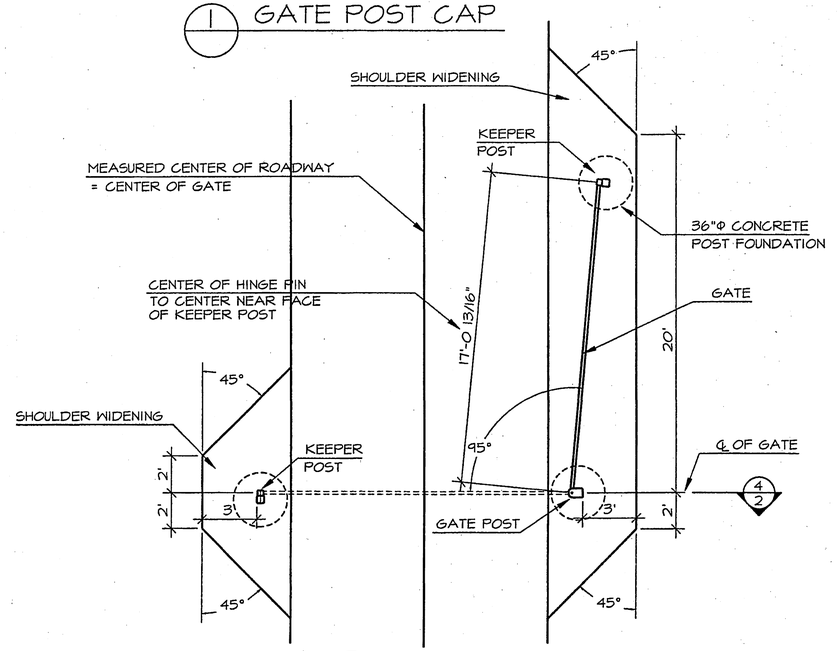
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0A3-1(28)	2001	E17	E30

NOTE:
DIMENSIONS ON THIS SHEET ARE IN ENGLISH UNITS.

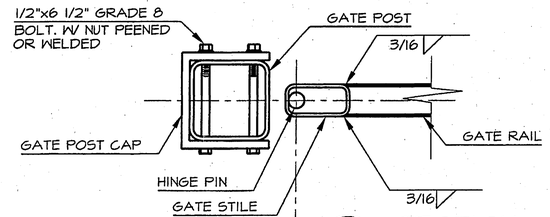




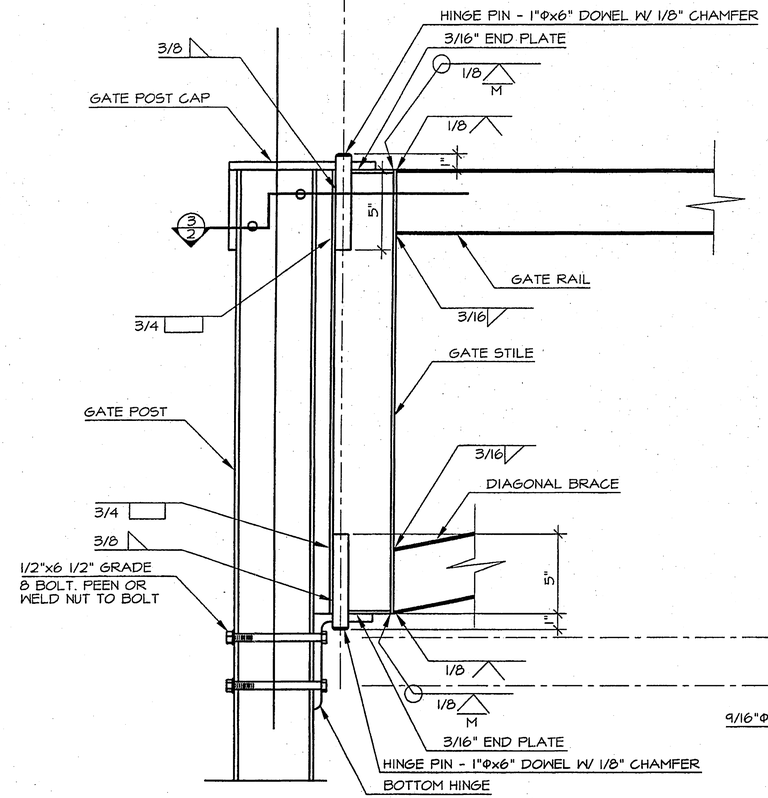
1 GATE POST CAP



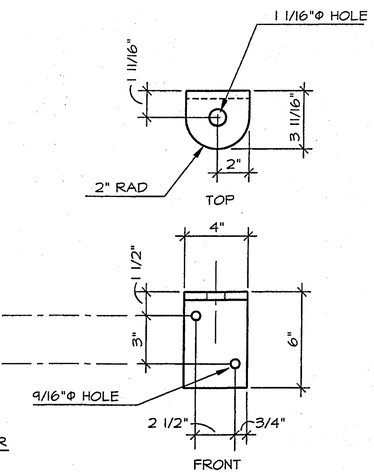
2 SITE PLAN



3/2 SECTION



4/2 SECTION



5 BOTTOM HINGE

NO.	REVISION	DATE	APPROVED
11	CH. DIST FROM GATE PIN TO C KEEPER POST	4/98	DH
10	REDESIGN & REDRAW	2/98	DH

STATE OF ALASKA 49TH Thomas A. Young CE - 4228 Registered Professional Engineer

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF PARKS AND OUTDOOR RECREATION — STATE OF ALASKA

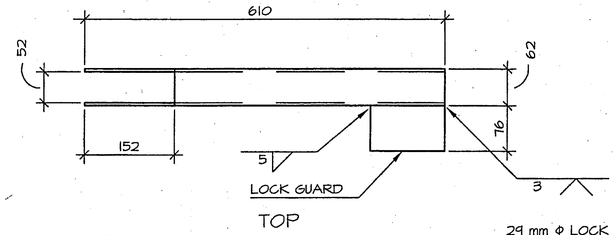
DESIGN & CONSTRUCTION SECTION

SINGLE GATE

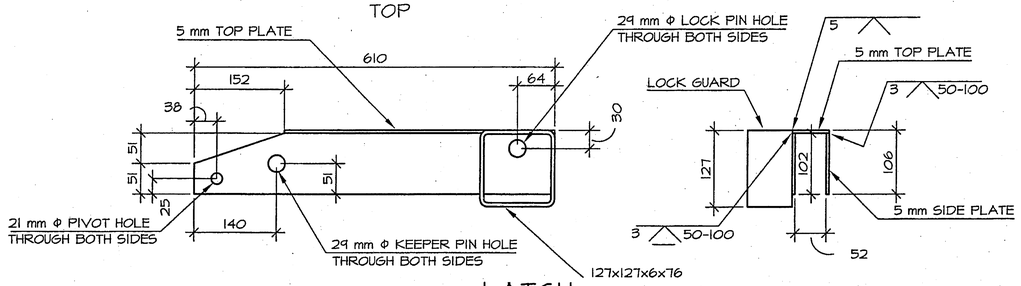
PREPARED:
DRAWN: RK
REVIEWED: DH TY
DATE: 10/14/85

SHEET 2
G-1
OF 2 SHEETS

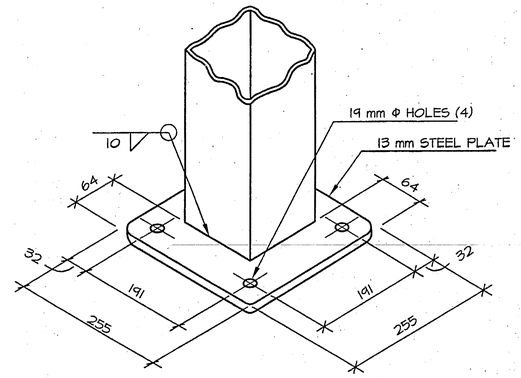
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0A3-1(28)	2001	E18	E30



TOP

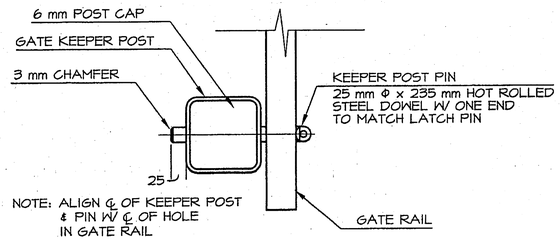


LATCH

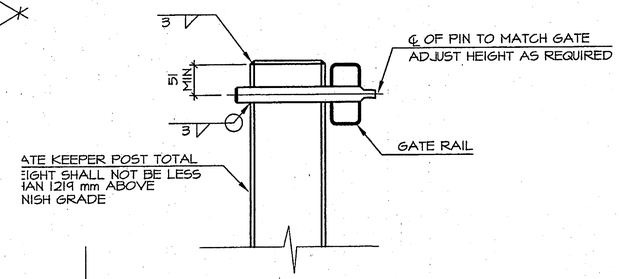


NOTE: FASTEN PLATES WITH 4 - 19 mm x 45 mm STEEL BOLTS WITH FLAT WASHERS, LOCK WASHERS, AND NUTS

STEEL PLATE (TYP.)

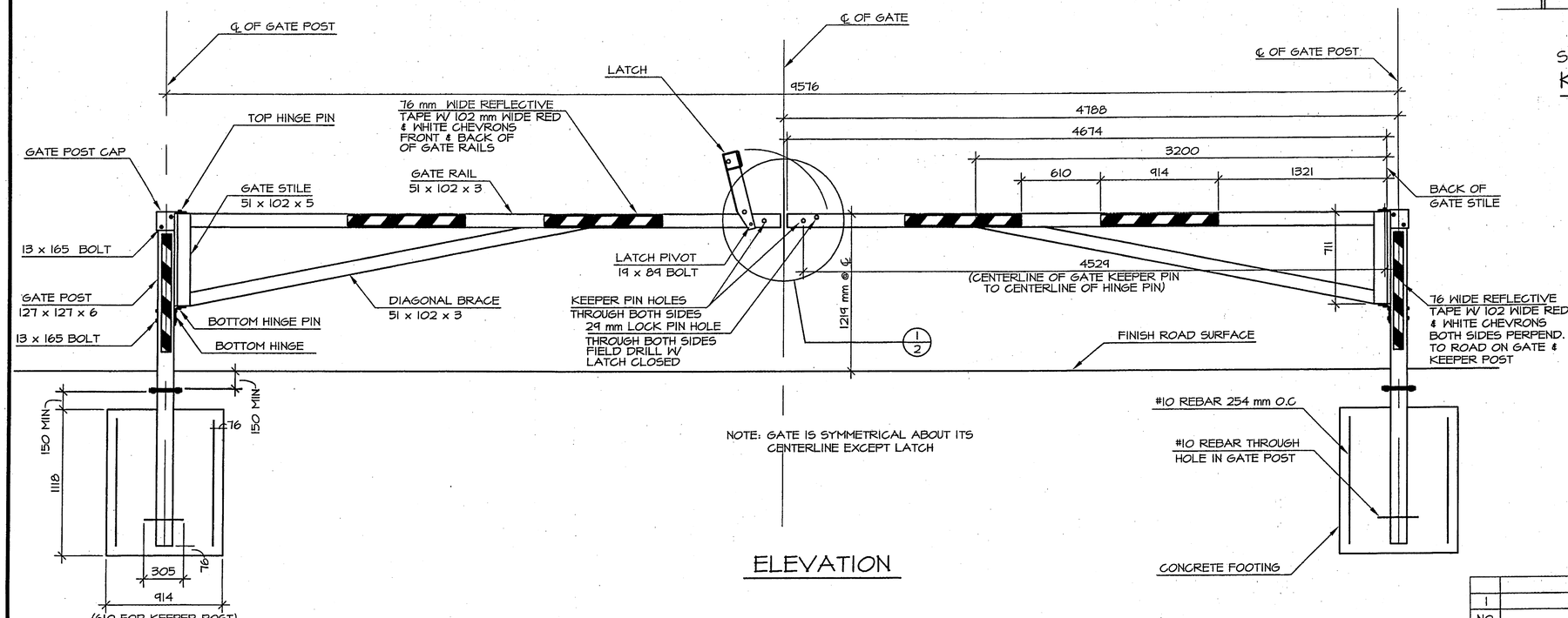


TOP



SECTION

KEEPER POST



NOTE: GATE IS SYMMETRICAL ABOUT ITS CENTERLINE EXCEPT LATCH

ELEVATION

NO.	REVISION	DATE	APPROVED
1	RE-DESIGN & RE-DRAW	2/98	DH

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF PARKS AND OUTDOOR RECREATION STATE OF ALASKA

DESIGN & CONSTRUCTION SECTION

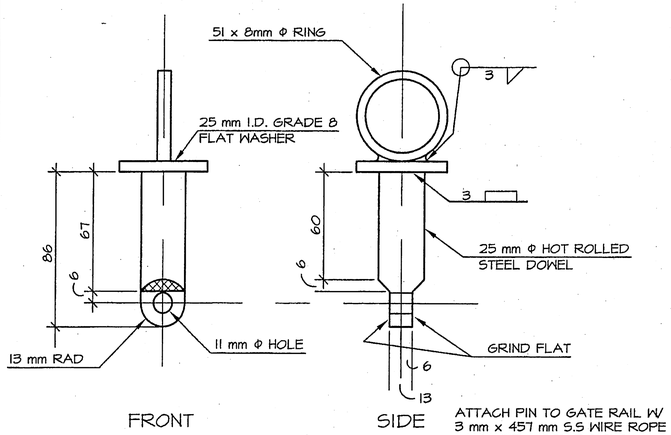
ALL DIMENSIONS ARE IN MILLIMETERS

Double Gate

PREPARED:
DRAWN: RK
REVIEWED: DH TY
DATE: 10/14/85

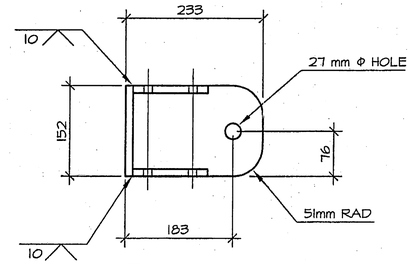
SHEET 1
G-2[M]
OF 2 SHEETS

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0A3-1(28)	2001	E.19	E.30

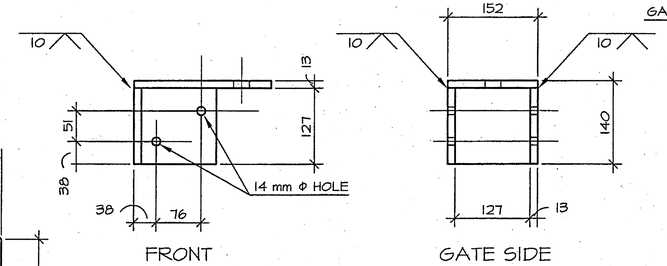


ATTACH PIN TO GATE RAIL W/ 3 mm x 457 mm S.S WIRE ROPE LANYARD. LOOP THROUGH PIN RING. USE EYELET & 6 mm x 51 mm TAPPING SCREW IN GATE RAIL

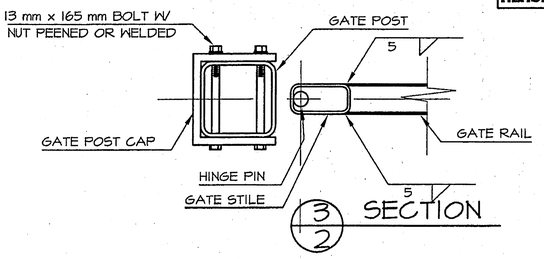
LATCH PIN



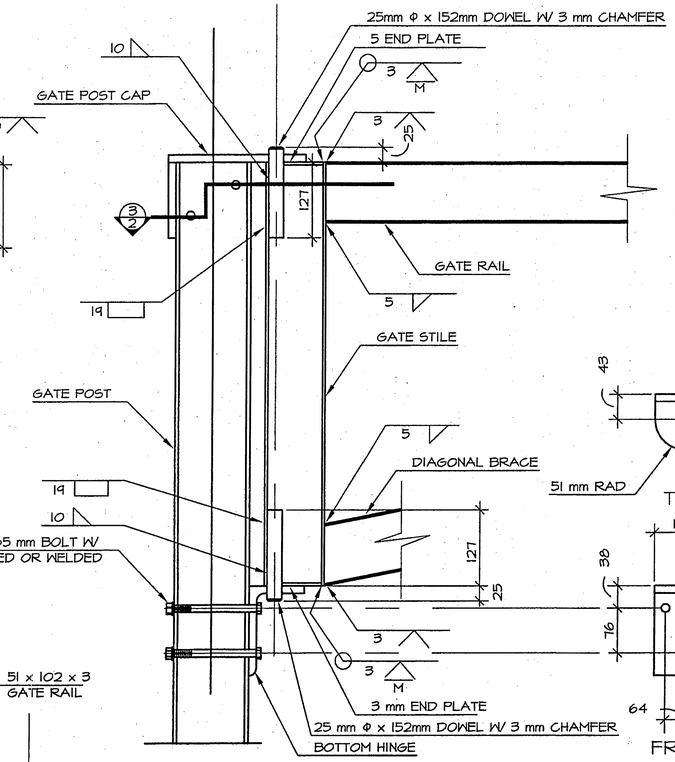
BOTTOM



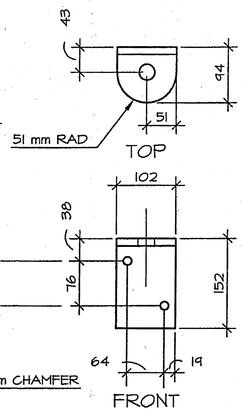
GATE POST CAP



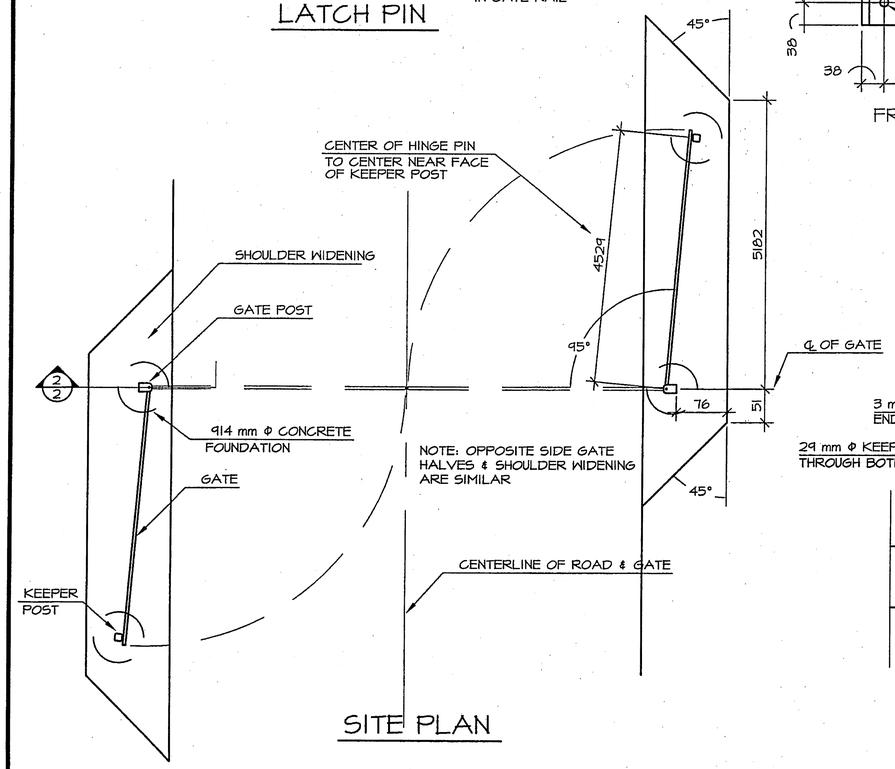
3/2 SECTION



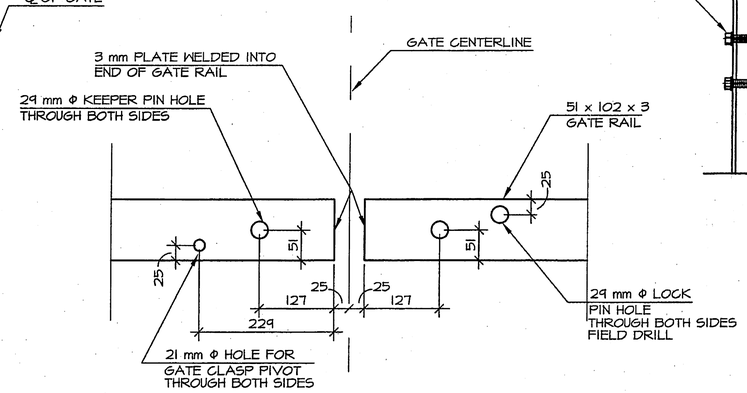
2/2 SECTION



BOTTOM HINGE



SITE PLAN



1/2 DETAIL

STATE OF ALASKA 9TH Daryl V. Haggstrom CE - 4002 Registered Professional Engineer

NO.	REVISION	DATE	APPROVED
1	RE-DESIGN & RE-DRAW	2/98	DH

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF PARKS AND OUTDOOR RECREATION — STATE OF ALASKA

DESIGN & CONSTRUCTION SECTION

ALL DIMENSIONS ARE IN MILLIMETERS

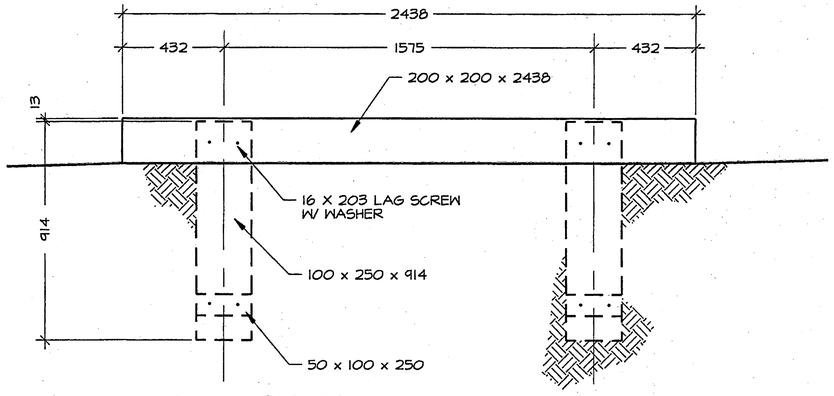
Double Gate

PREPARED:
DRAWN: RK
REVIEWED: DH TY
DATE: 10/14/85

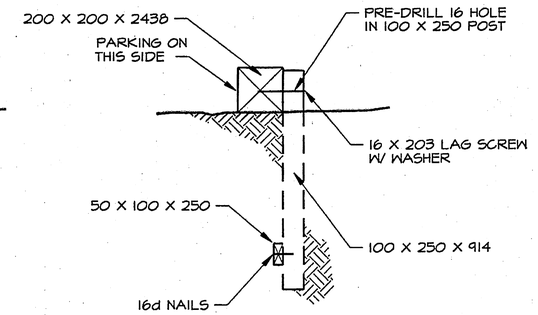
SHEET 2 OF 2 SHEETS

G-2[M]

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0A3-1(28)	2001	E20	E30



Side View

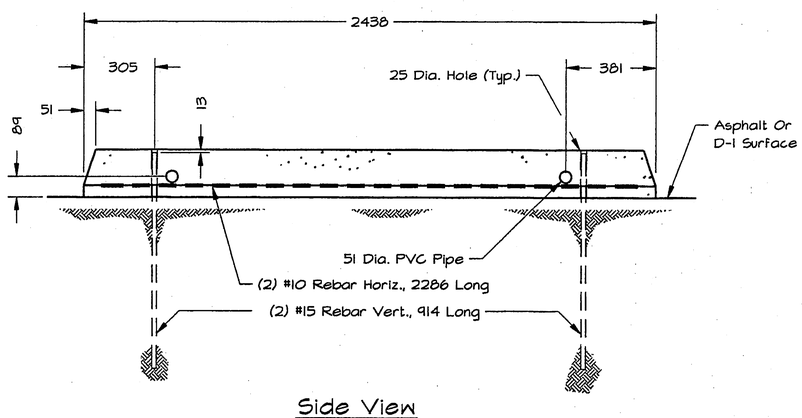


End View

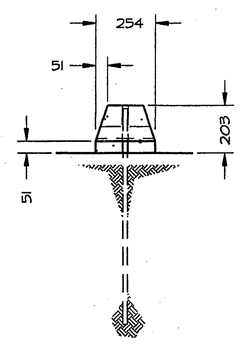
Wood Parking Bumper

NOTE:

1. All wood shall be pressure treated with water born salts CCA-C AWPA Standard P-5 to a min. retention of 6.4 kg cubic meter.
2. All posts will be set plumb into hand dug or augered holes, or driven plumb. Delete 2x4 on driven posts.



Side View



End View

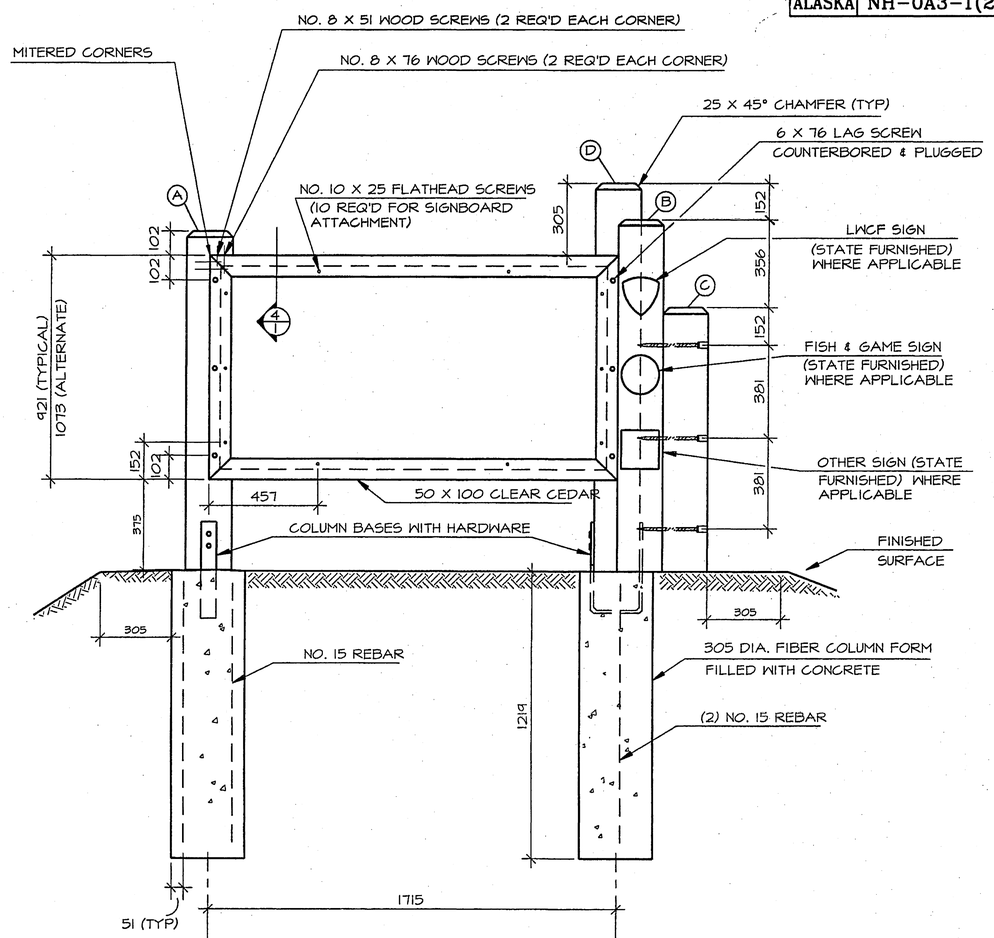
Concrete Parking Bumper

STATE OF ALASKA 49TH Thomas A. Young CE - 4228 Registered Professional Engineer

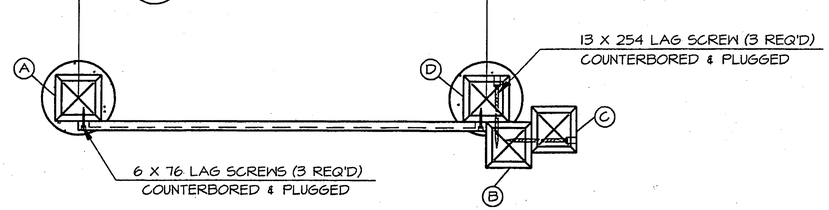
DEPARTMENT OF NATURAL RESOURCES DIVISION OF PARKS AND OUTDOOR RECREATION STATE OF ALASKA	DESIGN & CONSTRUCTION SECTION	ALL DIMENSIONS ARE IN MILLIMETERS	Parking Bumper	PREPARED: tlc DRAWN: tlc REVIEWED: DH DATE: 1 MAY 94	SHEET P-6[M] OF 1 SHEETS

STATE	PROJECT DESIGNATION	YEAR
ALASKA	NH-0A3-1(28)	2001

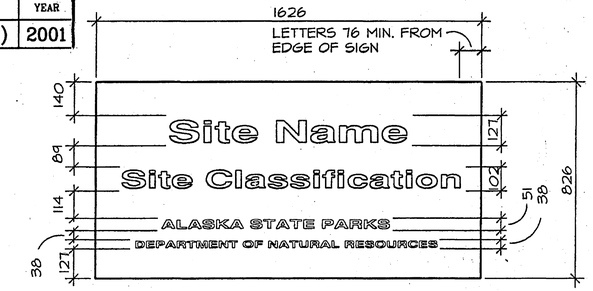
SHEET NO.	TOTAL SHEETS
E21	E30



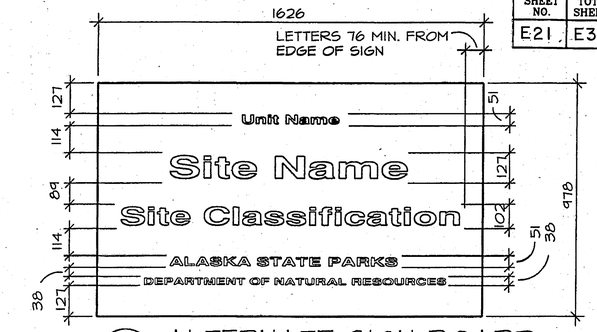
1 FRONT ELEVATION



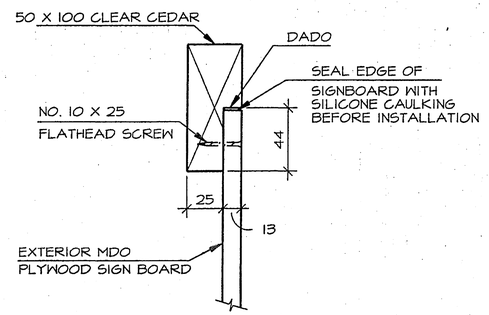
5 PLAN VIEW



2 TYPICAL SIGN BOARD



3 ALTERNATE SIGN BOARD



4/1 SECTION

NOTES:

1. DRAWINGS MAY BE REDUCED OR ENLARGED FROM SCALE SHOWN.
2. UNIT NAME, UNIT CLASSIFICATION, AND SITE NAME SHALL BE NOTED IN THE SPECIAL PROVISIONS.
3. LETTERS OF UNIT NAME, UNIT CLASSIFICATION, AND SITE NAME SHALL BE A MINIMUM OF 76mm FROM EITHER EDGE OF SIGN BOARD.
4. SIGN SHALL BE WHITE LETTERS ON A BROWN BACKGROUND. NO BORDER IS REQUIRED. LETTER STYLE TO BE CLARENDON BOLD.
5. ALL HARDWARE SHALL BE GALVANIZED.
6. ALL LUMBER SPECIFIED AS CLEAR CEDAR SHALL HAVE TWO COATS OF CLEAR WOOD FINISH.
7. 13mm LAG BOLTS SHALL BE COUNTERBORED 64mm DEEP. 6mm LAG BOLTS SHALL BE COUNTERBORED 13mm DEEP. ALL COUNTERBORED HOLES SHALL BE PLUGGED WITH WOOD DOWELS.
8. THE MATERIAL TO BE FASTENED BY THE LAG BOLT SHALL BE PRE-DRILLED TO A DIAMETER 12% GREATER THAN THE LAG BOLT. THE MATERIAL RECEIVING THE THREADS OF THE LAG BOLT SHALL BE PRE-DRILLED TO A MAXIMUM OF 75% OF THE DIAMETER OF THE LAG BOLT.
9. SIGN TO BE POSITIONED PERPENDICULAR TO ENTRANCE ROAD AND WITH SINGLE POST TOWARDS ENTRANCE ROAD AS DIRECTED BY THE ENGINEER.
10. IF SIGN IS INSTALLED ADJACENT TO ROAD FILL SECTION, CREATE MOUND FOR SIGN. IF SIGN IS INSTALLED ADJACENT TO ROAD CUT SECTION, CREATE PAD IN BACKSLOPE FOR SIGN. TOP OF CONCRETE FOOTINGS SHALL BE 2 FEET HIGHER THAN ADJACENT ROAD SHOULDER.

200 x 200 POST LENGTHS

POST NUMBER	TYPICAL SIGN BOARD	ALTERNATE SIGN BOARD
A	1397	1549
B	1422	1575
C	1067	1219
D	1575	1727

STATE OF ALASKA 49TH Thomas A. Young CE - 4228 Registered Professional Engineer

ALL DIMENSIONS ARE IN MILLIMETERS.

NO.	REVISION	DATE	APPROVED
19	DELETED MATERIALS LIST & ADDED NOTE 10	10/97	DH
18	MODIFIED O.G. & ADDED POST LENGTH TABLE	10/97	DH
17	MODIFIED LETTERS & ALTERNATE SIGN BOARD	8/96	DH
16	REDRAWN TO ELECTRONIC MEDIA	11/95	DH
15	CONCRETE, "CLASS W" REMOVED	7/95	DH
14	REMOVED SUPPLIERS	9/95	DH

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF PARKS AND OUTDOOR RECREATION — STATE OF ALASKA

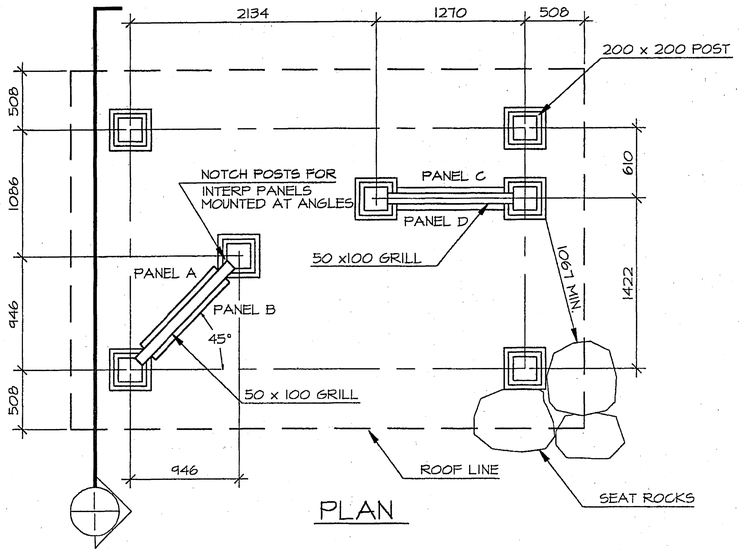
DESIGN & CONSTRUCTION SECTION

ENTRANCE SIGN

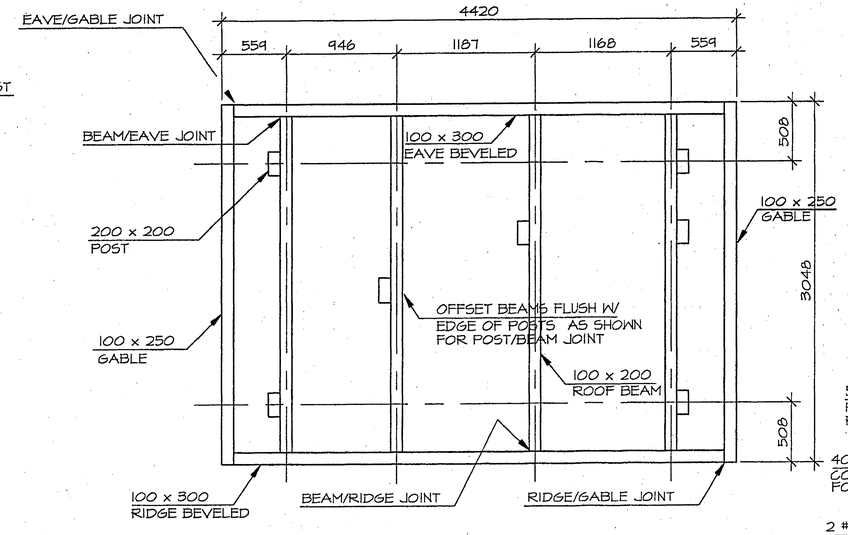
PREPARED:
DRAWN: MH PN
REVIEWED: DH
DATE: JAN. 85

SHEET 1 OF 1 SHEETS
S-3

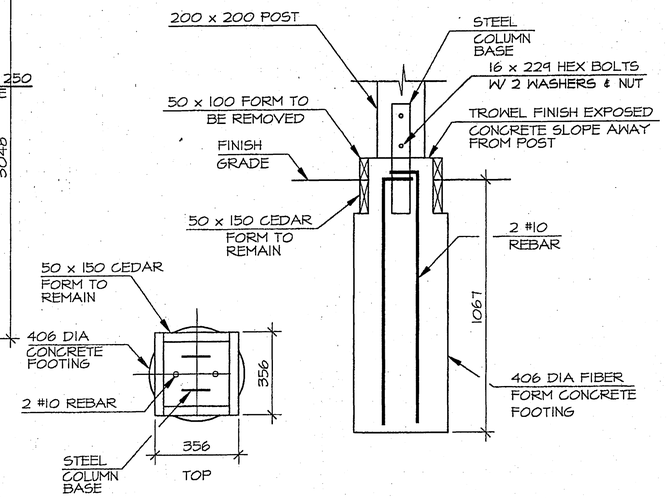
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0A3-1(28)	2001	E22	E30



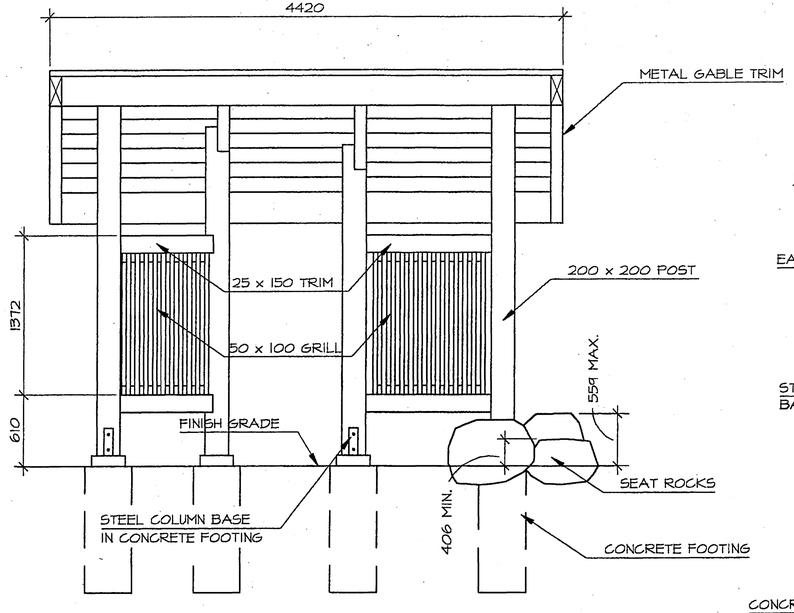
PLAN



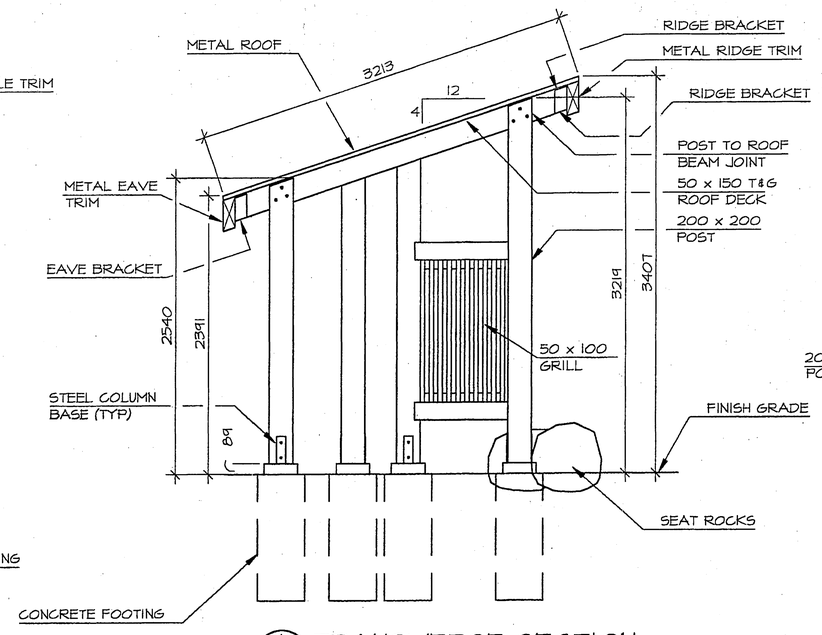
ROOF FRAMING PLAN



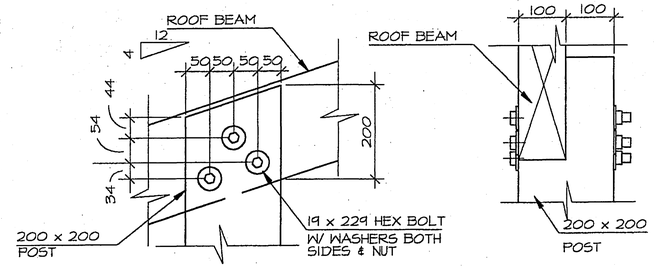
2 CONCRETE FOOTING



FRONT



1 TRANSVERSE SECTION



NOTE: OPPOSITE SIDE JOINT IS SIMILAR

3 POST/ROOF BEAM JOINT

NOTE:
COUNTERBORE BOLTS IN ROOF BOARDS AS REQUIRED TO CLEAR METAL ROOF TRIM

STATE OF ALASKA 49TH Thomas A. Ussing CE - 4228 Registered Professional Engineer

NO.	REVISION	DATE	APPROVED

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF PARKS AND OUTDOOR RECREATION — STATE OF ALASKA

DESIGN & CONSTRUCTION SECTION

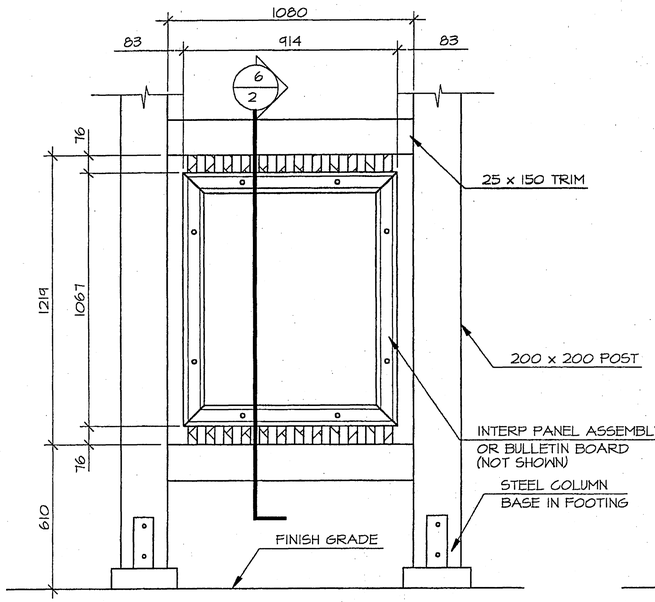
Measurements Are Millimeters

INTERPRETIVE KIOSK, TYPE B

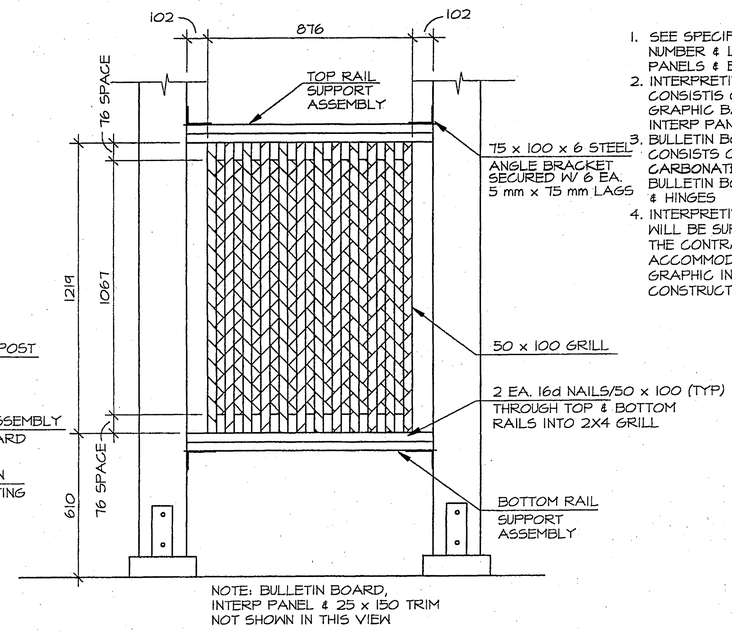
PREPARED: HL
DRAWN: TLC
REVIEWED: DH
DATE: JUN 96

SHEET 1
S-10[M]
OF 3 SHEETS

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0A3-1(28)	2001	E23	E30



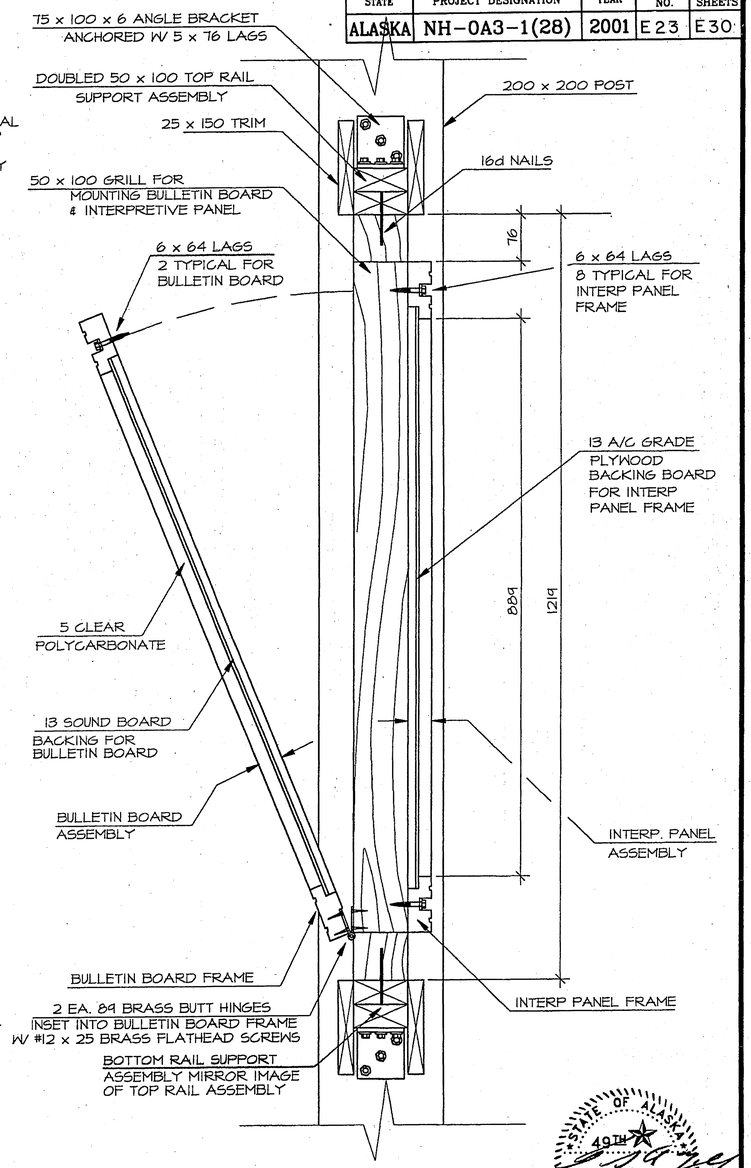
1/2 50x100 GRILL W/ INTERP PANEL



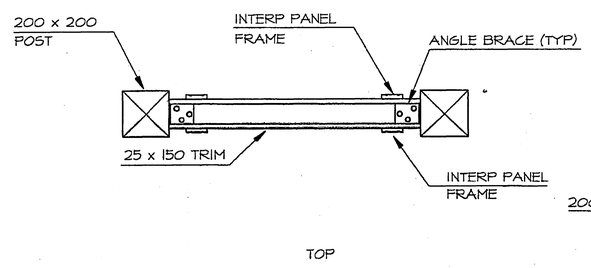
2/2 50x100 GRILL

NOTES:

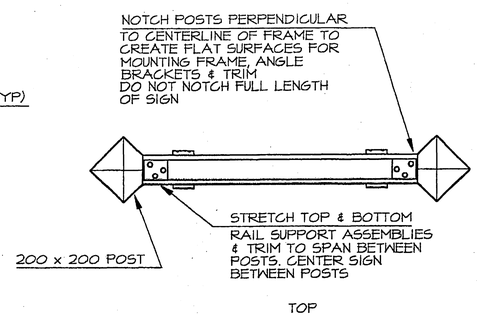
1. SEE SPECIFICATIONS FOR ACTUAL NUMBER & LOCATION OF INTERP PANELS & BULLETIN BOARDS
2. INTERPRETIVE PANEL ASSEMBLY CONSISTS OF INTERPRETIVE GRAPHIC BACKING BOARD & INTERP PANEL FRAME.
3. BULLETIN BOARD ASSEMBLY CONSISTS OF CLEAR POLY-CARBONATE, SOUND BOARD, BULLETIN BOARD FRAME & HINGES
4. INTERPRETIVE PANEL GRAPHIC WILL BE SUPPLIED BY OTHERS. THE CONTRACTOR SHALL MAKE ACCOMMODATIONS FOR THIS GRAPHIC IN MEASUREMENTS & CONSTRUCTION.



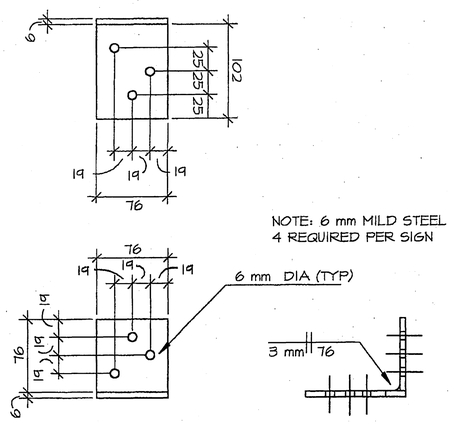
6/2 SUPPORT GRILL SECTION



3/2 50x100 GRILL SECTION PERPENDICULAR TO POST



4/2 50x100 GRILL SECTION ANGLED TO POST



NOTE: 6 mm MILD STEEL
4 REQUIRED PER SIGN

5/2 ANGLE BRACKET

STATE OF ALASKA 49TH
Thomas A. Young
CE - 4228
Registered Professional Engineer

NO.	REVISION	DATE	APPROVED

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF PARKS AND OUTDOOR RECREATION — STATE OF ALASKA

DESIGN & CONSTRUCTION SECTION

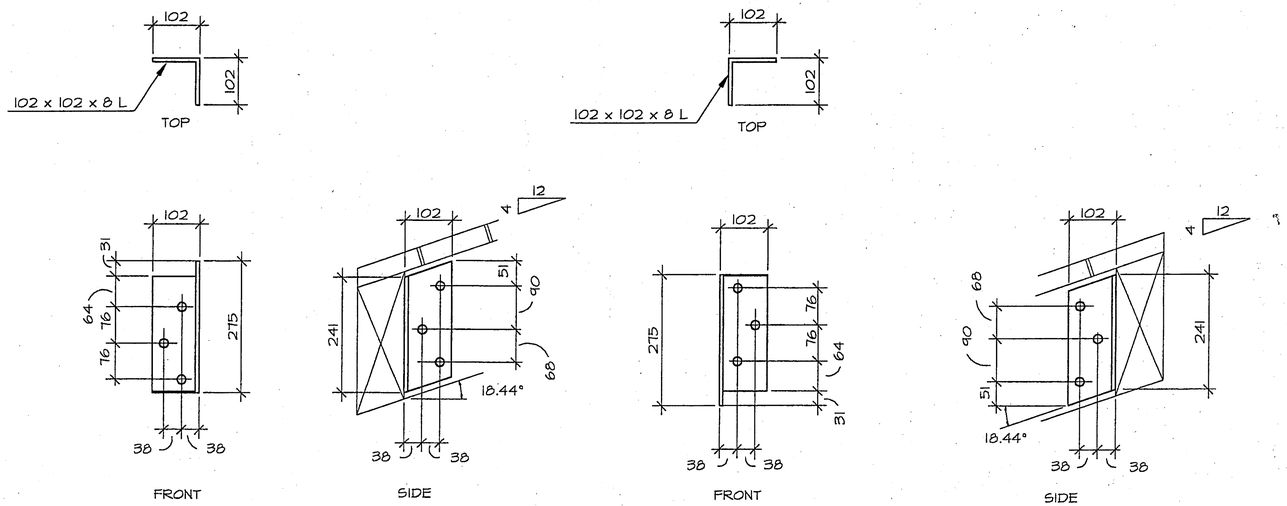
Measurements Are Millimeters

INTERPRETIVE KIOSK, TYPE B

PREPARED: HL
DRAWN: TLC
REVIEWED: DH
DATE: JUN 96

SHEET 2
S-10[M]
OF 3 SHEETS

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0A3-1(28)	2001	E 24	E30

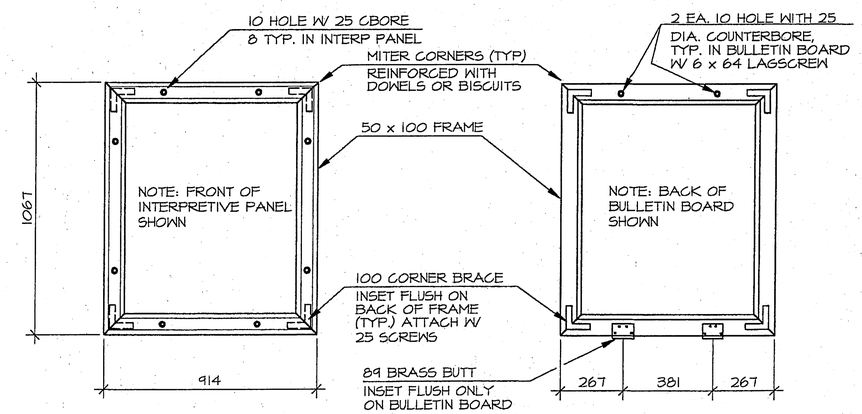


OPPOSITE HANDED BRACKET IS MIRROR IMAGE

1/3 EAVE/GABLE CORNER BRACKET

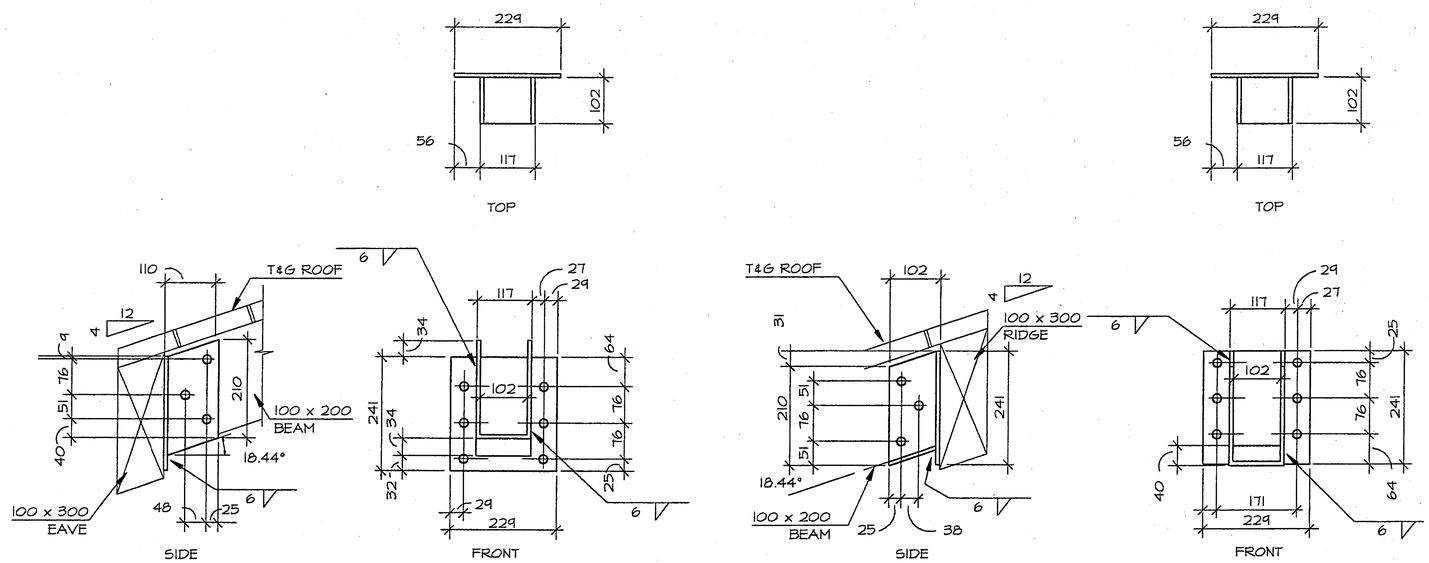
OPPOSITE HANDED BRACKET IS MIRROR IMAGE

2/3 RIDGE/GABLE CORNER BRACKET



5/3 INTERPRETIVE PANEL FRAME

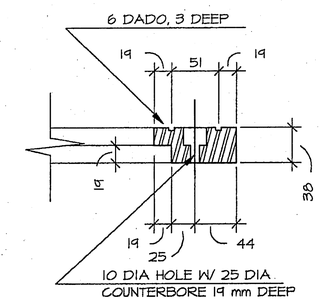
6/3 BULLETIN BOARD FRAME



3/3 ROOF BEAM/ EAVE BRACKET

NOTE: BRACKETS ARE 8 mm MILD STEEL

4/3 ROOF BEAM/ RIDGE BRACKET



NOTES:
1. BRACKETS ARE 8 mm MILD STEEL
2. BRACKET BOLTS SHALL BE 10 mm Φ & EXTEND 6 mm TO 13 mm BEYOND NUT
3. BOLT HOLES SHALL BE 11 mm Φ IN ALL STRUCTURAL BRACKETS
4. WASHERS SHALL BE USED IN CASES WHERE BOLTHEADS OR NUTS CONTACT WOOD.

NOTE: BULLETIN BOARD SECTION SIMILIAR WITH ONLY 2 HOLES AT TOP

7/3 INTERP PANEL FRAME SECTION

STATE OF ALASKA 49TH Thomas A. Young CE - 4228 Registered Professional Engineer

NO.	REVISION	DATE	APPROVED

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF PARKS AND OUTDOOR RECREATION — STATE OF ALASKA

DESIGN & CONSTRUCTION SECTION

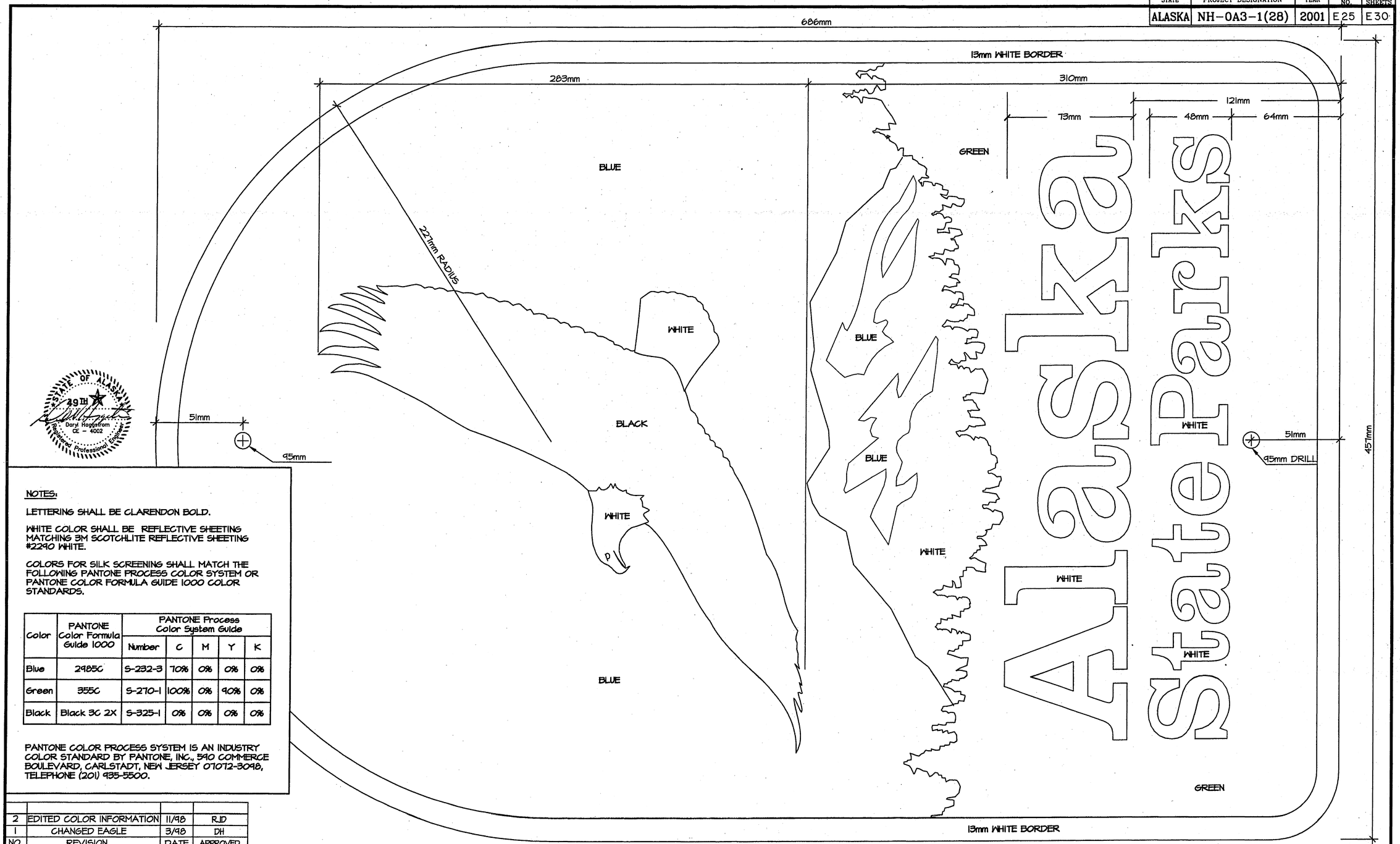
Measurements Are Millimeters

INTERPRETIVE KIOSK, TYPE B

PREPARED: HL
DRAWN: TLC
REVIEWED: DH
DATE: JUN 96

SHEET 3
S-10[M]
OF 3 SHEETS

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0A3-1(28)	2001	E25	E30



NOTES:

LETTERING SHALL BE CLARENDON BOLD.

WHITE COLOR SHALL BE REFLECTIVE SHEETING MATCHING 3M SCOTCHLITE REFLECTIVE SHEETING #2290 WHITE.

COLORS FOR SILK SCREENING SHALL MATCH THE FOLLOWING PANTONE PROCESS COLOR SYSTEM OR PANTONE COLOR FORMULA GUIDE 1000 COLOR STANDARDS.

Color	PANTONE Color Formula Guide 1000	PANTONE Process Color System Guide				
		Number	C	M	Y	K
Blue	2985C	S-232-3	70%	0%	0%	0%
Green	355C	S-270-1	100%	0%	90%	0%
Black	Black 3C 2X	S-325-1	0%	0%	0%	0%

PANTONE COLOR PROCESS SYSTEM IS AN INDUSTRY COLOR STANDARD BY PANTONE, INC., 590 COMMERCE BOULEVARD, CARLSTADT, NEW JERSEY 07072-3098, TELEPHONE (201) 935-5500.

NO.	REVISION	DATE	APPROVED
2	EDITED COLOR INFORMATION	11/98	RJD
1	CHANGED EAGLE	3/98	DH

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF PARKS AND OUTDOOR RECREATION
STATE OF ALASKA

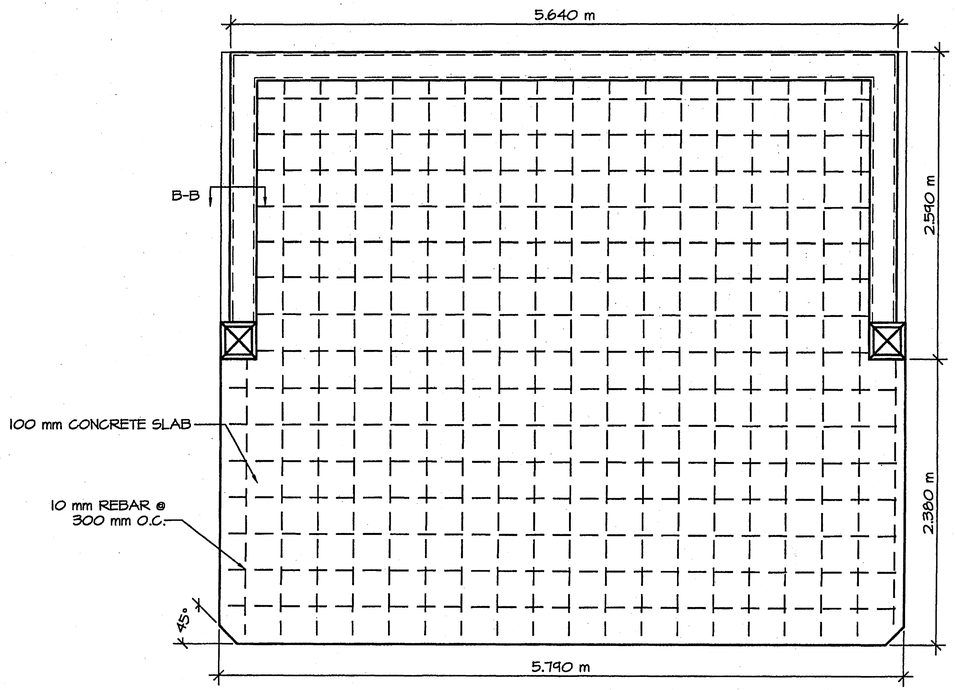
DESIGN & CONSTRUCTION SECTION

EAGLE LOGO SIGN

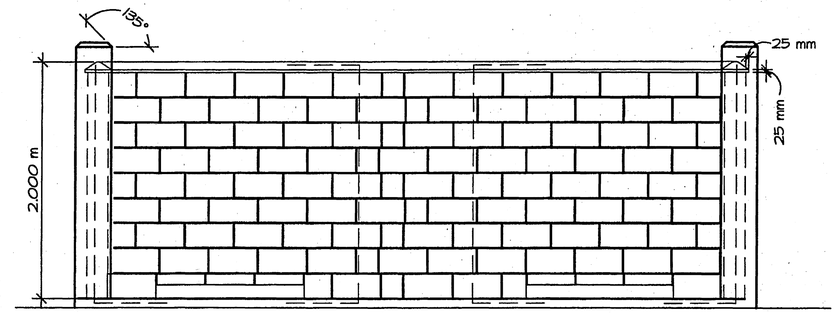
PREPARED: BOBD
DRAWN: TBT
REVIEWED: DH
DATE: FEB 98

SHEET 1
S-15[M]
OF 1 SHEETS

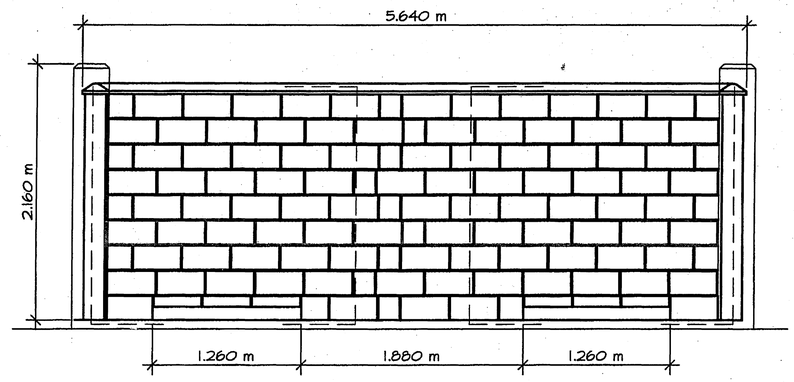
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0A3-1(28)	2001	E 26	E 30



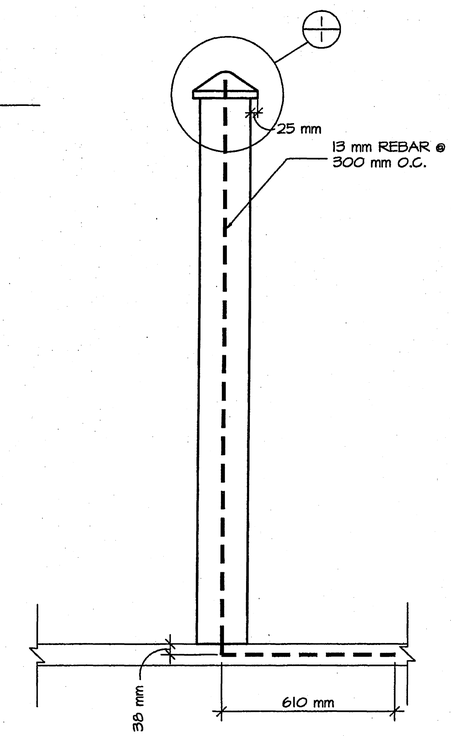
PLAN



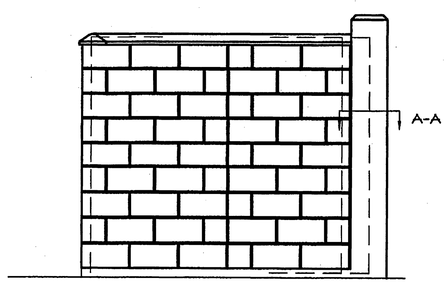
FRONT ELEVATION



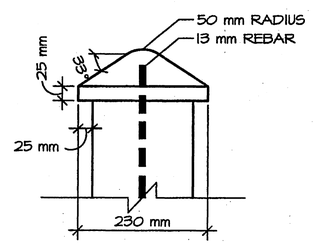
BACK ELEVATION



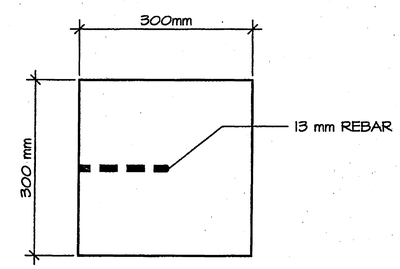
SECTION B-B



SIDE ELEVATION



DETAIL
CONCRETE CAP

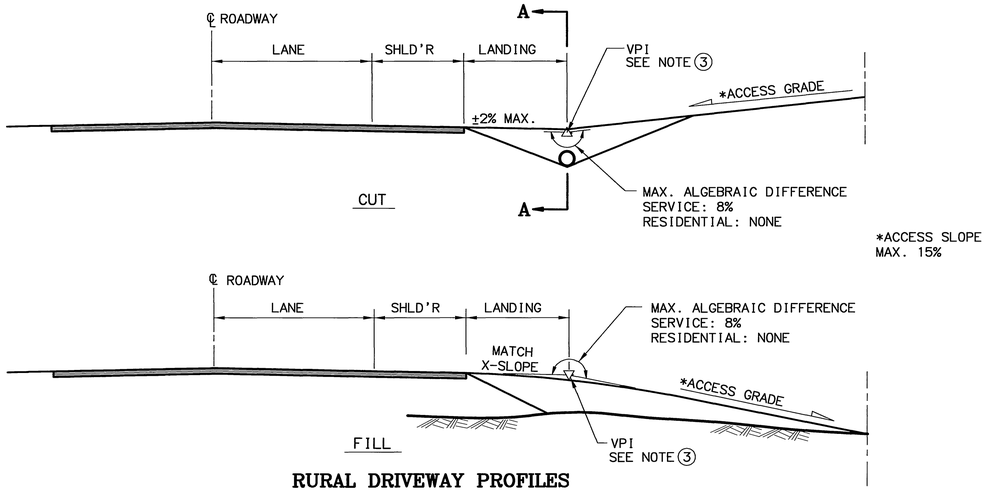


SECTION A-A

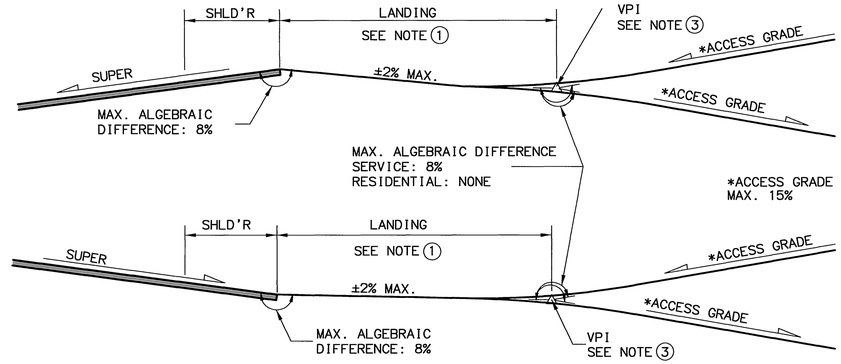
STATE OF ALASKA 49TH
Darryl W. Hagstrom
CE 4002
7/23/01
Registered Professional Engineer

DEPARTMENT OF NATURAL RESOURCES DIVISION OF PARKS AND OUTDOOR RECREATION STATE OF ALASKA	DESIGN & CONSTRUCTION SECTION		DOUBLE TOILET SCREEN	PREPARED: BE DRAWN: JS REVIEWED: DH DATE: 3/01	SHEET 1 OF 1 SHEETS

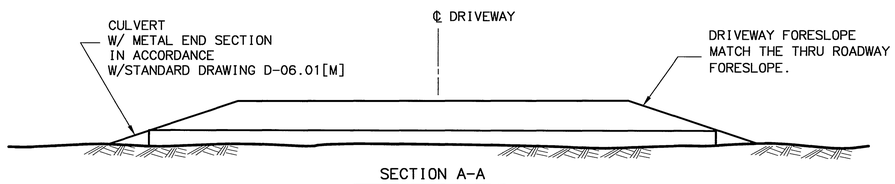
REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	E27	E30



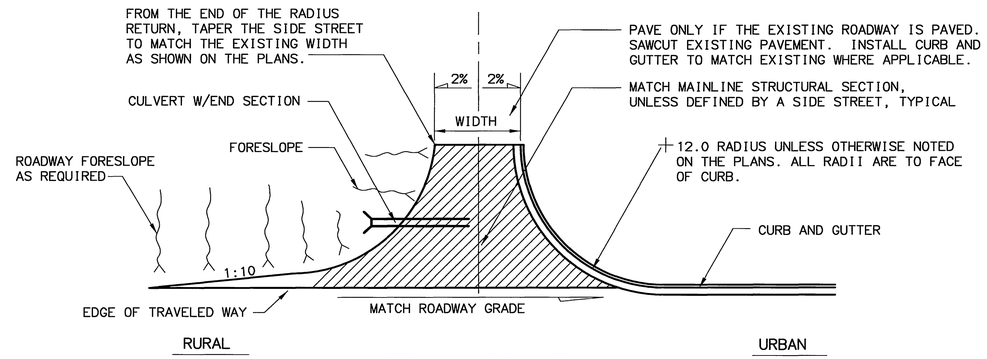
RURAL DRIVEWAY PROFILES



DRIVEWAY PROFILES WITH SUPER

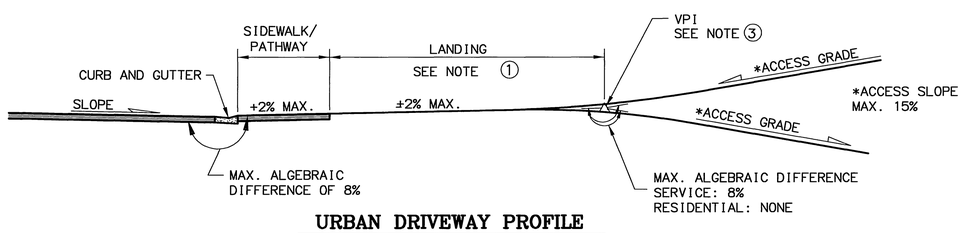


DRIVEWAY TYPICAL

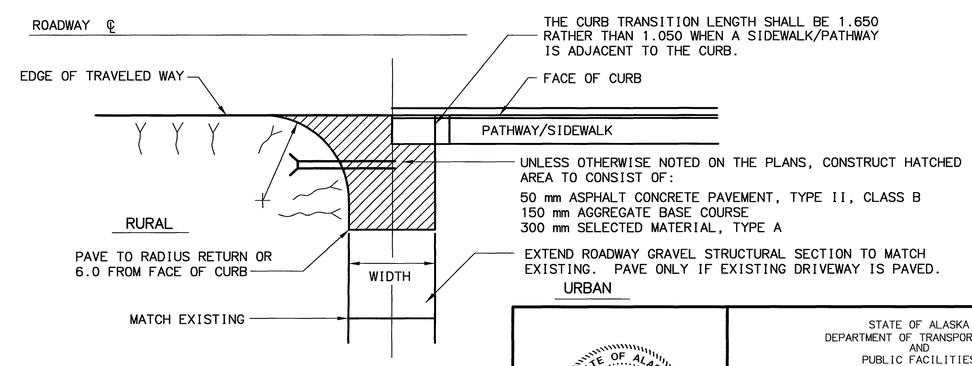


PUBLIC APPROACH

PLAN VIEW



URBAN DRIVEWAY PROFILE



DRIVEWAYS

PLAN VIEW

LANDING TABLE

DRIVEWAY TYPE	LENGTH ①
RESIDENTIAL	3.0
② SERVICE	9.0

DRIVEWAY CONSTRUCTION TABLE

DRIVEWAY TYPE	WIDTH	RADIUS
RESIDENTIAL	4.2 TO 6.0	6.0
② SERVICE	7.2 TO 10.4	12.0

NOTES

① SEE PLANS, OTHERWISE USE LANDING TABLE.

② SERVICE DRIVEWAY = COMMERCIAL DRIVEWAY

③ DRIVEWAY VERTICAL CURVES REQUIREMENTS:

CREST- 20 mm MAXIMUM HUMP IN 3 m CHORD
SAG- 50 mm MAXIMUM DEPRESSION IN 3 m CHORD

STATE OF ALASKA
JUDY J. DOUGHERTY
CE 8823
REGISTERED PROFESSIONAL ENGINEER
11-26-02

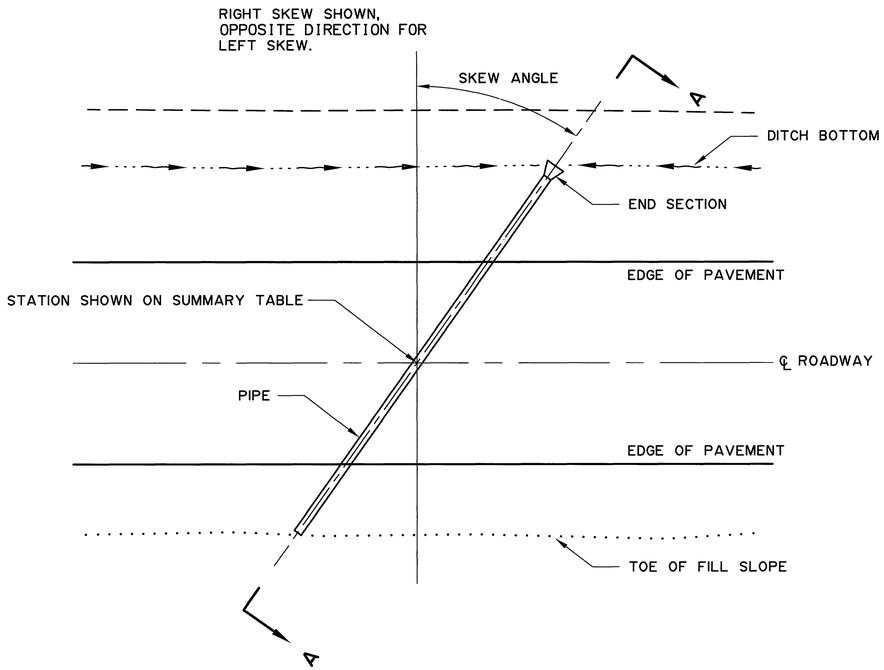
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

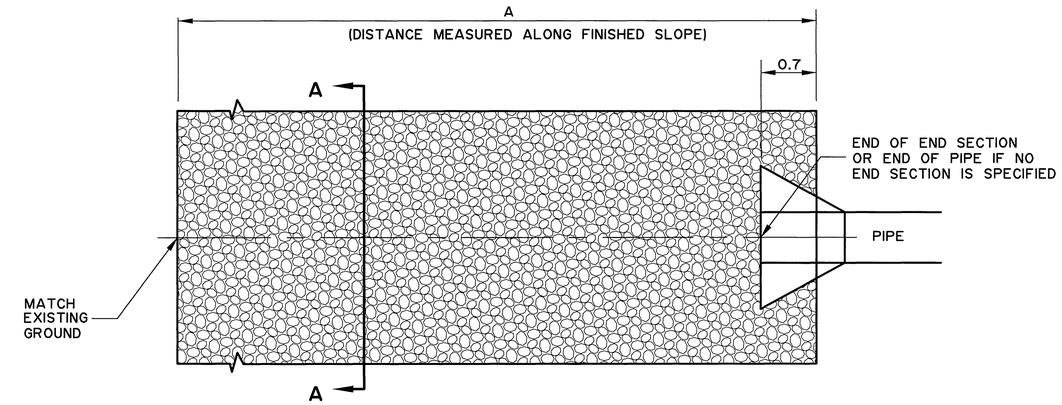
DRIVEWAY AND APPROACH DETAILS

SPECIFICATIONS | DESIGNED BY
SCALE 1=1 | CHECKED BY
COMPUTER DESIGNATION | AUTOCAD-KOREN-D:\SBSSPROJ\SS97\DATA\NINBERG\V28\DAPP.DWG 11-26-02 | VIEW/HALF AT | DRAFTED BY | KMH

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	E28	E30

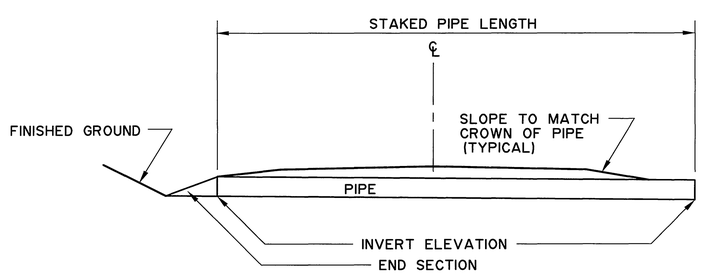


PLAN VIEW



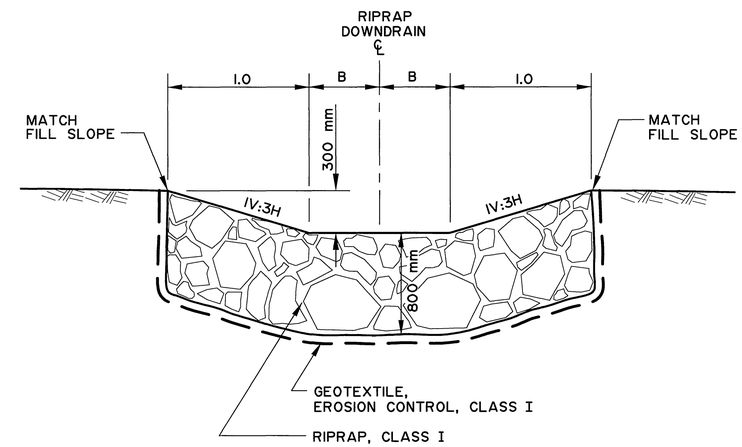
PLAN VIEW

SEE RIPRAP SUMMARY FOR DIMENSIONS A AND B.



SECTION A-A

PIPE INSTALLATION DETAIL



SECTION A-A

RIPRAP DOWNDRAIN

DESIGNED BY
CHECKED BY
DRAFTED BY CAJ 11/26/02

SPECIFICATIONS
STANDARDS
COMPUTER DESIGNATION AUTOCAD-CARDLEE-50577/PIPEDET
VIEW ALL

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

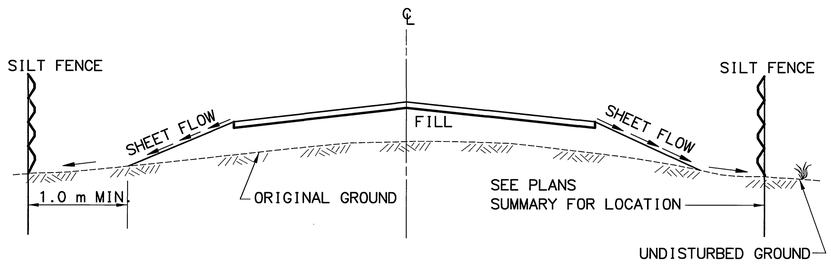
SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

PIPE AND
RIPRAP DOWNDRAIN DETAILS

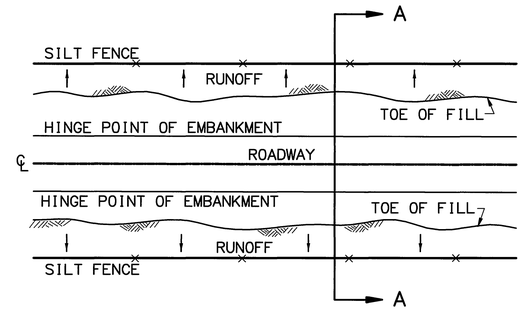
REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	E29	E30

GENERAL NOTES:

1. SILT FENCE SUPPORTS SHALL BE 50mm PVC PIPE REINFORCED WITH IRON PIPE OR #15 M REBAR, 50 mm X 50 mm WOOD POSTS, OR AS APPROVED BY THE ENGINEER.
2. INSTALLATION AND APPLICATION SHALL BE IN ACCORDANCE WITH THE PRACTICES AS OUTLINED IN THE EROSION AND SEDIMENT CONTROL PLAN.
3. FILTER FABRIC END PIECES SHALL BE OVERLAPPED APPROX. 150 mm AT FENCE SUPPORTS.
4. FILTER FABRIC SHALL BE HUNG TAUT, NOT LOOSE OR FOLDED.
5. THE CONTRACTOR SHALL INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT.
6. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
7. DO NOT PLACE SILT FENCE ACROSS CREEKS OR STREAMS.



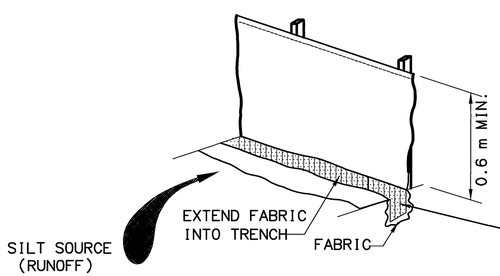
SECTION A-A



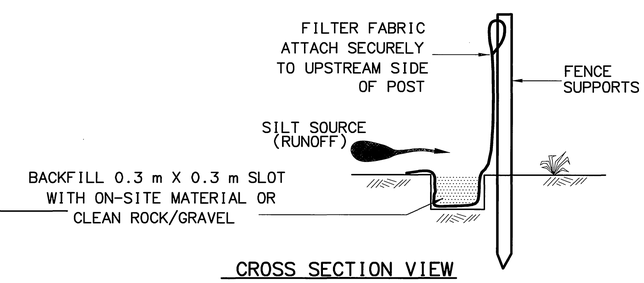
PLAN VIEW

FOR USE ON LAND

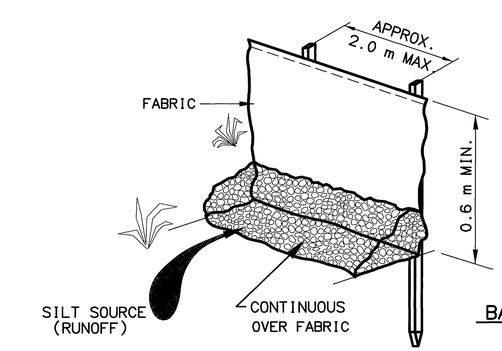
1. FENCE SHALL BE PLACED AT LEAST 1 m FROM THE TOE OF EMBANKMENT OR EXCAVATON AREAS, OR AS DIRECTED BY THE ENGINEER.
2. ACCUMULATION OF SEDIMENT BEHIND SILT FENCE SHALL BE REMOVED WHEN DEPTH REACHES 150 mm. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.



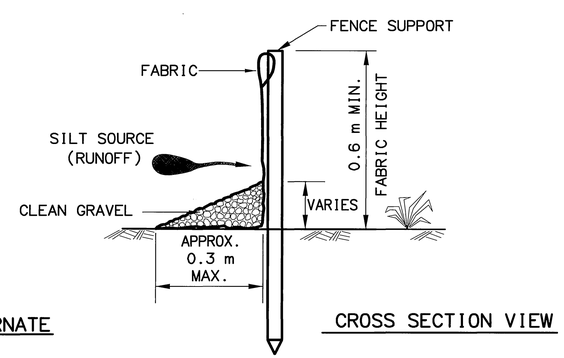
TRENCH ALTERNATE



CROSS SECTION VIEW



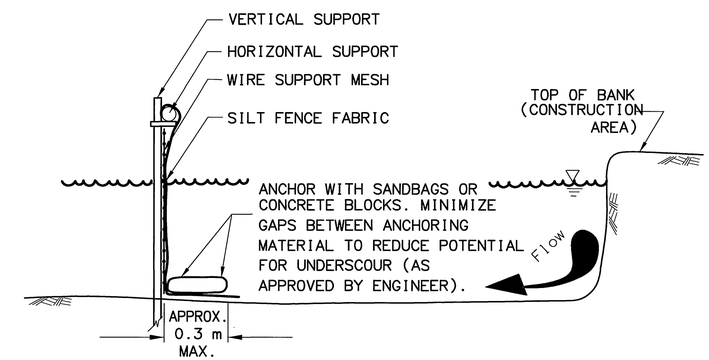
BACKFILL ALTERNATE



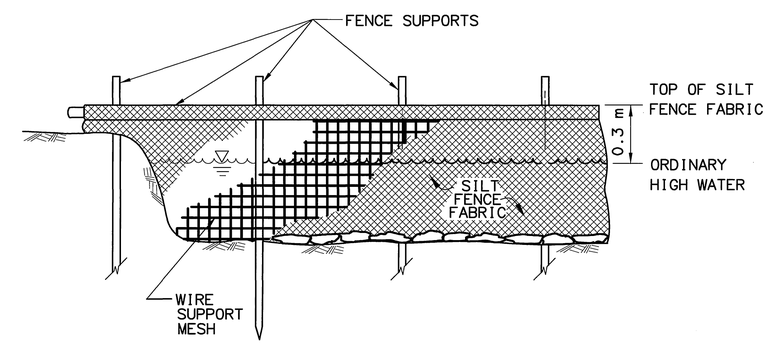
CROSS SECTION VIEW

FOR USE IN WATER

1. SECURE THE ENDS OF SILT FENCE TO THE BANK.
2. SILT FENCE FRAMEWORK SHALL BE FINISHED 50 mm x 50 mm WOOD, 75 mm DIAMETER WOOD, 20 M REBAR WITH PVC SLEEVES, 20 mm IRON PIPE, OR OTHER POSTS CAPABLE OF SUPPORTING THE INSTALLATION, AS APPROVED BY THE ENGINEER.
3. THE WIRE MESH SUPPORT SHALL BE WWF 150 mm x 150 mm, W1 x W1 OR AS APPROVED BY THE ENGINEER.
4. FENCE ANCHORED IN STANDING WATER SHALL HAVE THE BOTTOM ANCHORED WITH SANDBAGS OR CONCRETE BLOCKS AS DETAILED BELOW.



CROSS SECTION VIEW



TYPICAL

STATE OF ALASKA
STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
REGISTERED PROFESSIONAL ENGINEER

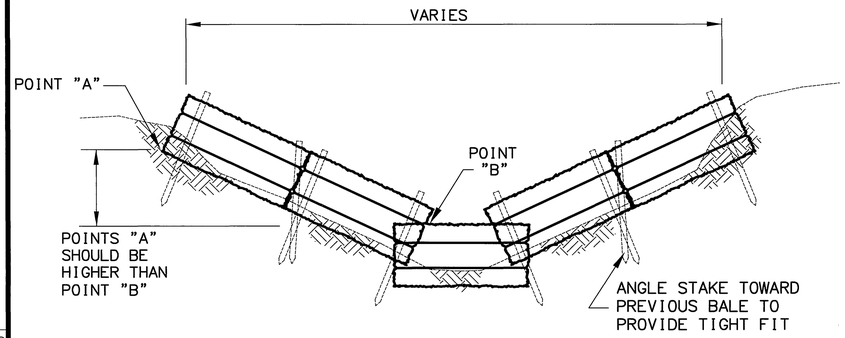
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

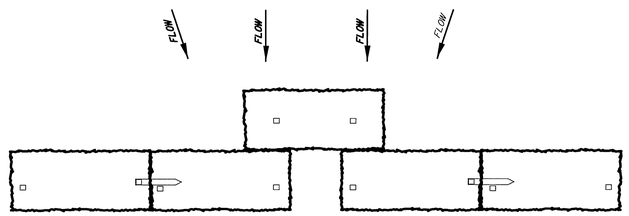
EROSION AND SEDIMENT CONTROL
SILT FENCE DETAILS

SPECIFICATIONS		DESIGNED BY	
SCALE metric	D:\SDSKPROJ\53577\DATA\775ILT.DWG 8-22-01 10:12:38 am EST	CHECKED BY	
COMPUTER DESIGNATION	ENVIRONMENTAL DETAILS\EV02FSILT	DRAFTED BY	PW/PL

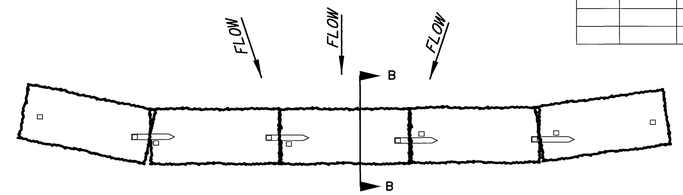
REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	E30	E30



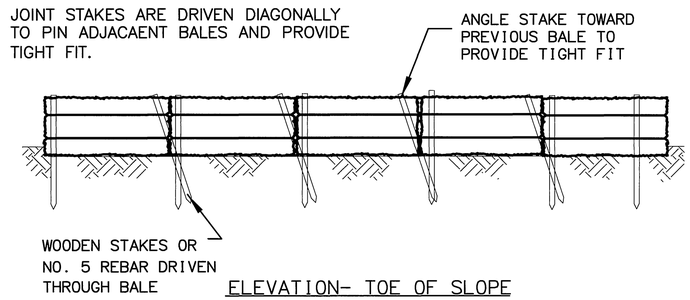
ELEVATION-DITCH LINE



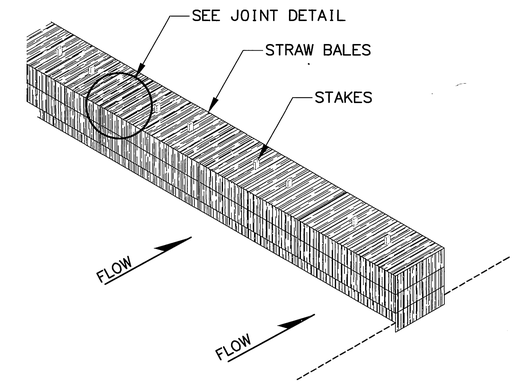
PLAN-DITCH LINE



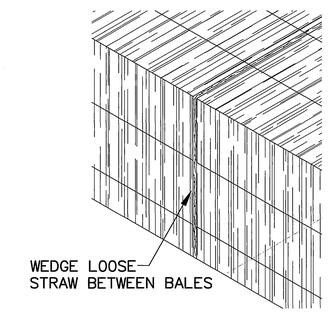
PLAN VIEW - TOE OF SLOPE



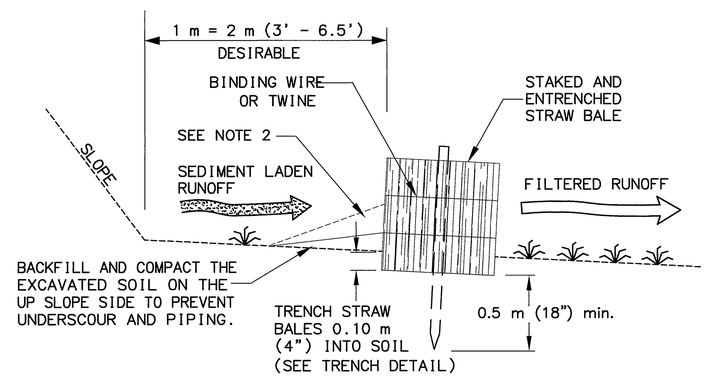
ELEVATION- TOE OF SLOPE WITH JOINT STAKES DETAIL



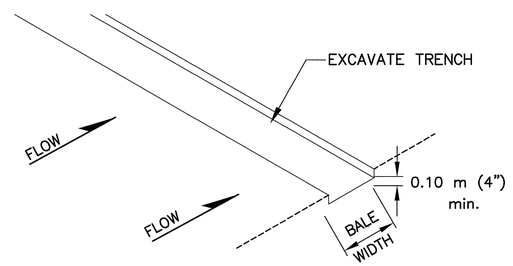
STRAW BALE PLACEMENT DETAIL



JOINT DETAIL



SECTION B-B



TRENCH DETAIL

NOTES:

1. STRAW BALES SHALL BE INSTALLED PRIOR TO ANY GROUND DISTURBING ACTIVITY. INSTALL BALES SUCH THAT TWINE/WIRE IS PARALLEL TO GROUND SURFACE (SEE TYPICAL SECTION B-B).
2. REMOVAL OF TRAPPED SEDIMENT TO AN AREA NOT SUBJECT TO EROSION IS REQUIRED WHEN THE SEDIMENT HAS REACHED A HEIGHT OF 0.15 m (6"). WHEN APPROVED BY THE ENGINEER, BALES MAY BE LEFT IN PLACE TO DECOMPOSE, OR MAY BE SPREAD WITH THE ACCUMULATED SEDIMENT AND SEEDED.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

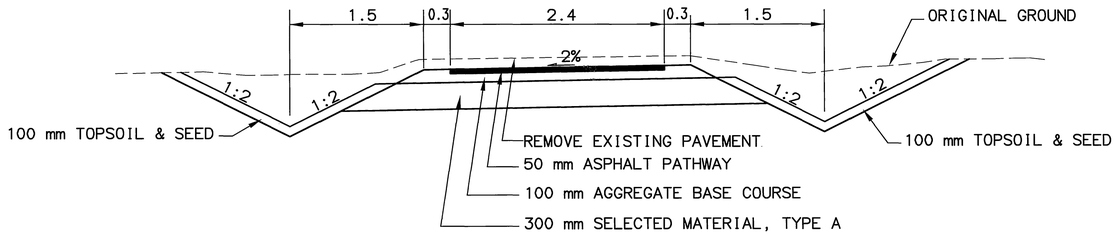
EROSION & SEDIMENT CONTROL
TEMPORARY CHECK DAM
STRAW BALE BARRIER

SPECIFICATIONS		DESIGNED BY
PLOT SCALE 10:1 m	D:\SESSPROJ\53577\DATA\77STRAW1-31-01.DWG	CHECKED BY
COMPUTER DESIGNATION	STRAW1-31-01.DWG 1/31/01 10:1	DRAFTED BY

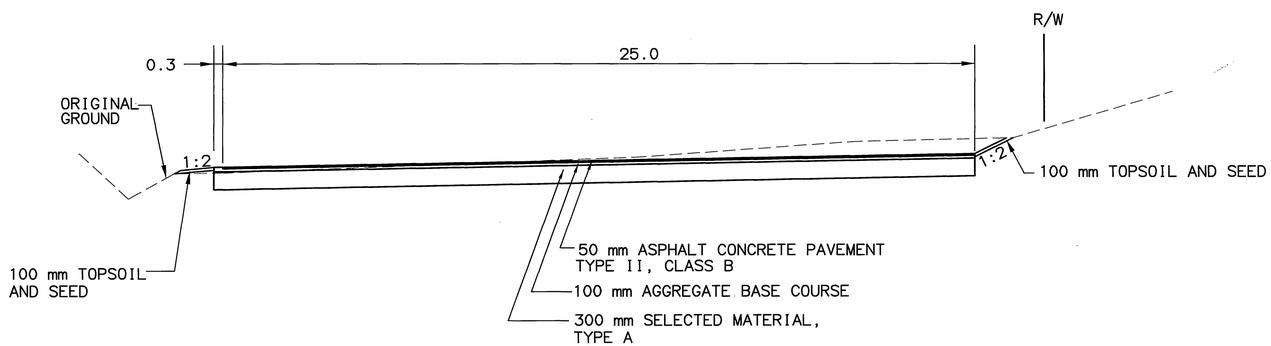
1/31/00

8-22-01 10:14:10 am EST

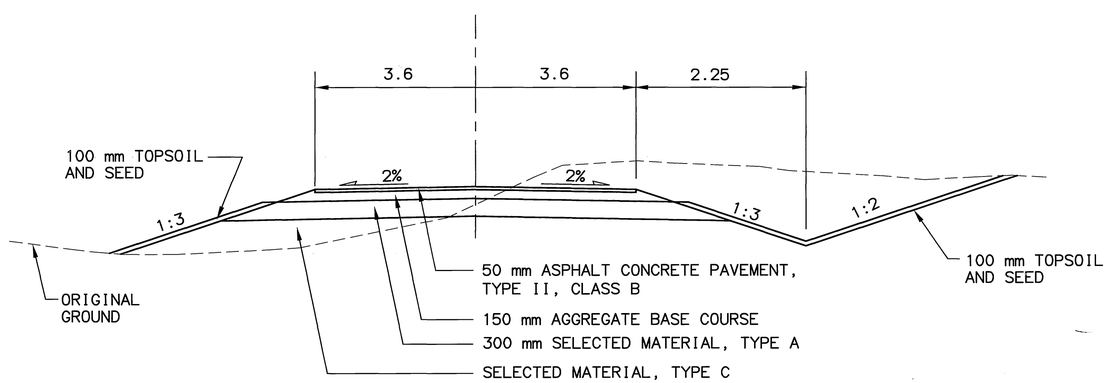
REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2005	E31	E33



PATHWAY
SECTION A - A



PARKING LOT
SECTION B - B



DRIVEWAY SECTION

STATE OF ALASKA
49TH
JOHN R. LINNELL
CE 9488
6-28-05
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

LITTLE PENGUIN CREEK
PARKING LOT
SECTIONS

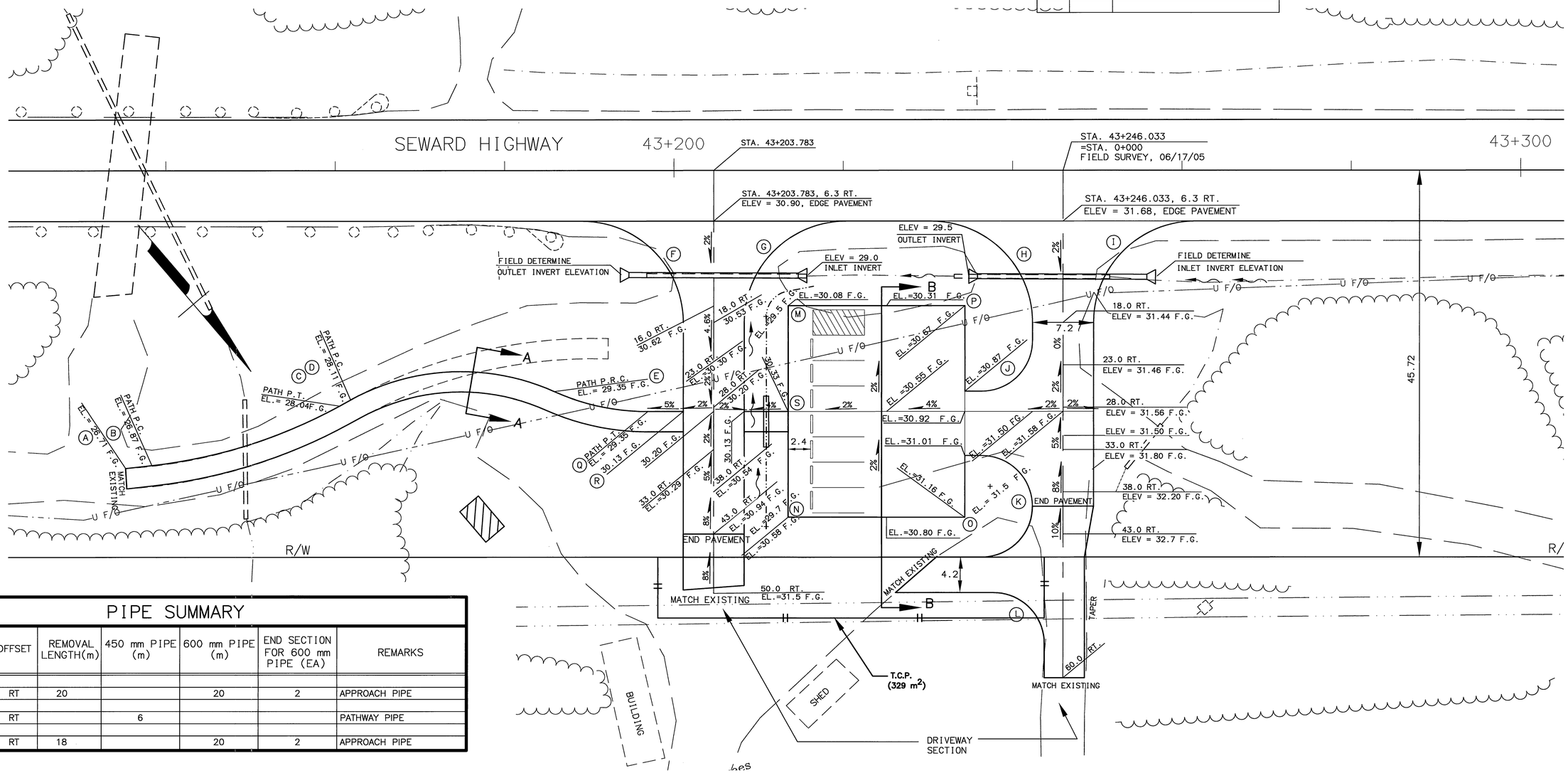
DESIGNED BY		06/28/05
CHECKED BY	NKG	
DRAFTED BY		
VIEW: 1 of 1		
SPECIFICATIONS		
SCALE 1=1		
COMPUTER DESIGNATION	AUTOCAD-NANCY- SEWHWY\53577\PROL0TTYP.DWG 9-23-02	

REVISIONS		
No.	DATE	DESCRIPTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0A3-1(28)	2005	E32	E33

NOTES:

1. 4" TOPSOIL AND SEED ALL DISTURBED AREAS.



PIPE SUMMARY

STATION	OFFSET	REMOVAL LENGTH(m)	450 mm PIPE (m)	600 mm PIPE (m)	END SECTION FOR 600 mm PIPE (EA)	REMARKS
43+204.00	RT	20		20	2	APPROACH PIPE
43+211.00	RT		6			PATHWAY PIPE
43+246.00	RT	18		20	2	APPROACH PIPE

RADIUS POINT TABLE

POINT	STATION	OFFSET (RT)	RADIUS	REMARKS
A	43+135.35	35.21		PATHWAY ℄ MATCH EXISTING
B	43+138.45	34.86	60.0	PATHWAY CONSTRUCTION ℄ POINT OF CURVATURE
C	43+160.61	27.83		PATHWAY CONSTRUCTION ℄ POINT OF TANGENCY
D	43+161.91	27.11	27.00	PATHWAY CONSTRUCTION ℄ POINT OF CURVATURE
E	43+185.95	26.14		PATHWAY CONSTRUCTION ℄ POINT OF REVERSE CURVE
F	43+189.18	18.00	12.00	APPROACH RADIUS POINT
G	43+220.38	18.00	12.00	APPROACH RADIUS POINT
H	43+230.43	18.00	12.00	APPROACH RADIUS POINT
I	43+261.63	18.00	12.00	APPROACH RADIUS POINT
J	43+236.43	20.12	6.00	PARKING LOT ENTRANCE RADIUS POINT
K	43+236.43	39.72	6.00	PARKING LOT ENTRANCE & DRIVEWAY RADIUS POINT

RADIUS POINT TABLE

POINT	STATION	OFFSET (RT)	RADIUS	REMARKS
L	43+237.82	55.92	6.00	DRIVEWAY RADIUS POINT
M	43+213.58	16.00		CORNER OF PARKING LOT
N	43+213.58	41.00		CORNER OF PARKING LOT
O	43+234.43	41.00		CORNER OF PARKING LOT
P	43+234.43	16.00		CORNER OF PARKING LOT
Q	43+197.00	28.50		PATHWAY CONSTRUCTION ℄ : POINT OF TANGENCY
R	43+210.18	28.50		PATHWAY CONSTRUCTION ℄ : EDGE DRIVEWAY
S	43+213.58	28.50		PATHWAY CONSTRUCTION ℄ : EDGE OF PARKING LOT

STATE OF ALASKA
49TH
RANDY D. VANDERWOOD
CE 9146
06-30-05
REGISTERED PROFESSIONAL ENGINEER

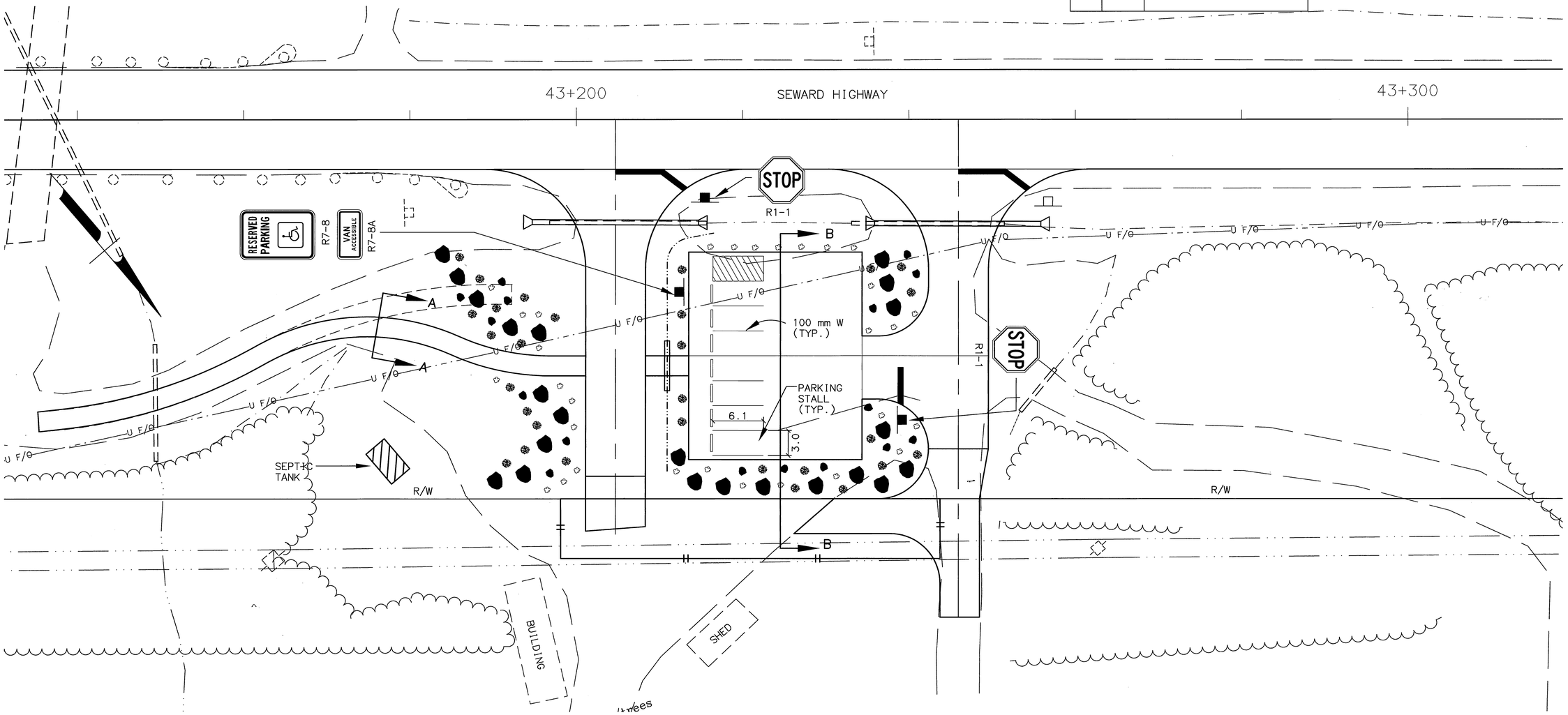
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

LITTLE PENGUIN CREEK
PARKING LOT LAYOUT

DESIGNED BY
CHECKED BY
DRAFTED BY NKG 06/28/05
VIEW= 1 of 1
SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-NANCY-ROW-PARKINGLOT.DWG

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	E33	E33



PARKING LOT SIGN SUMMARY

STATION	REF. ℄	TYPE	LEGEND	SIZE (m) W	SIZE (m) H	AREA (m^2)	SIGN FACES	POST SIZE	THICKNESS (mm) FRAMED	THICKNESS (mm) UNFRAMED
43+213	RT	R7-8	RESERVED PARKING	0.3	0.45	0.14	NW	1-65 mm P.T.		3.2
		R7-8A	VAN ACCESSIBLE	0.3	0.15	0.05	NW			3.2
43+217	RT	R1-1	STOP	0.75	0.75	0.56	NE	1-65 mm P.T.		3.2
43+239	RT	R1-1	STOP	0.75	0.75	0.56	SE	1-65 mm P.T.		3.2

LEGEND

- WHITE SPRUCE 1.2 m
- PRICKLY ROSE 0.6 m
- BARRIER ROCK

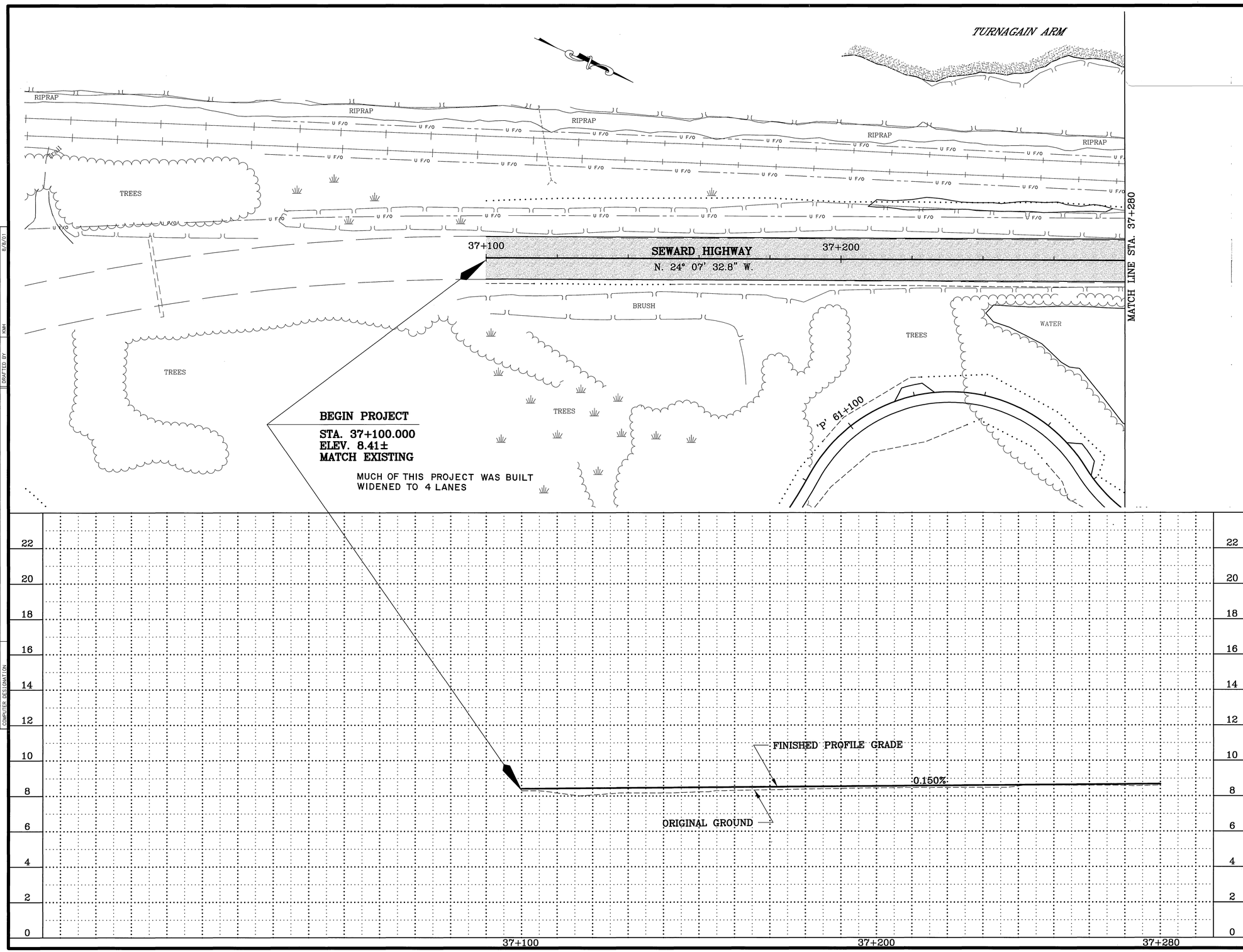
STATE OF ALASKA
49TH
JOHN R. LINNELL
CE 9488
6-28-05
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

LITTLE PENGUIN CREEK
PARKING LOT LANDSCAPING AND
SIGNING AND STRIPING

DESIGNED BY	
CHECKED BY	
DRAFTED BY	NKG
VIEW= 1 of 1	06/28/05
SPECIFICATIONS	
SCALE 1=1	
COMPUTER DESIGNATION	AUTOCAD-NANCY-ROW-PARKINGLOT.DWG



SHEET NO.	TOTAL SHEETS
F1	F13
STATE	YEAR
ALASKA	2002

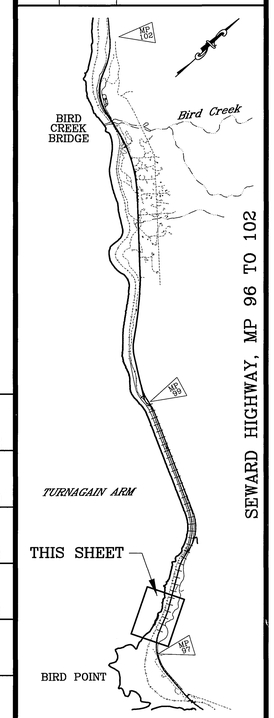
PROJECT DESIGNATION
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

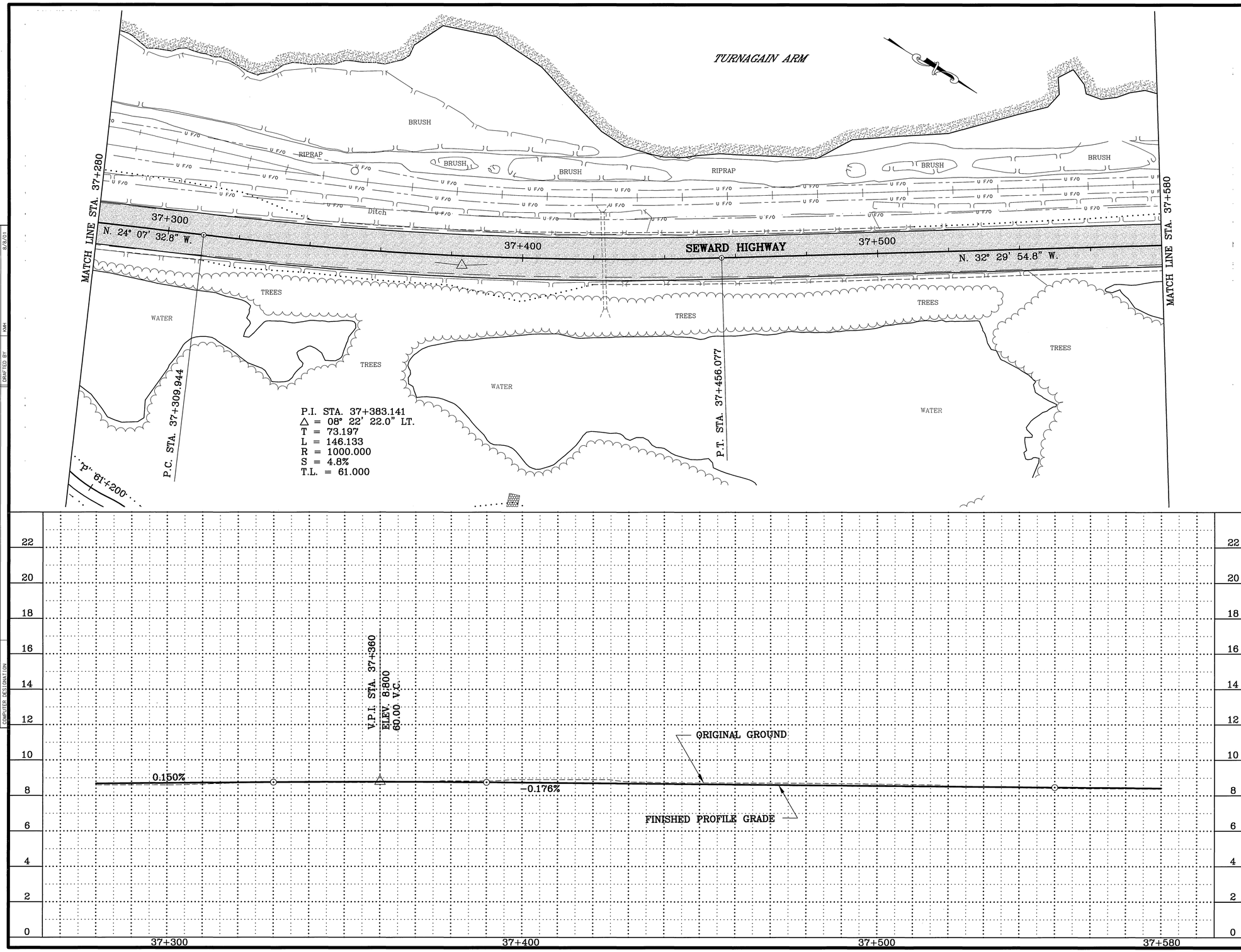
STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
6-18-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

BIRD FLATS AREA
HIGHWAY
PLAN AND PROFILE

SPECIFICATIONS
SCALE 1:1
COMPUTER DESIGNATION
AUTOCAD-CARDLEE: S:\SKPROJ\35377\7PP
VITEM= HALFOS
DESIGNED BY
CHECKED BY
DRAFTED BY KMW
8/8/01



SHEET NO.	TOTAL SHEETS
F2	F13
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

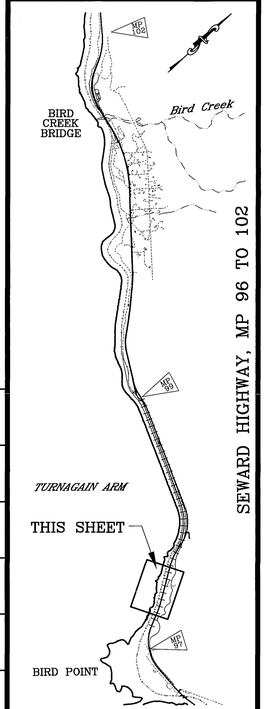
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

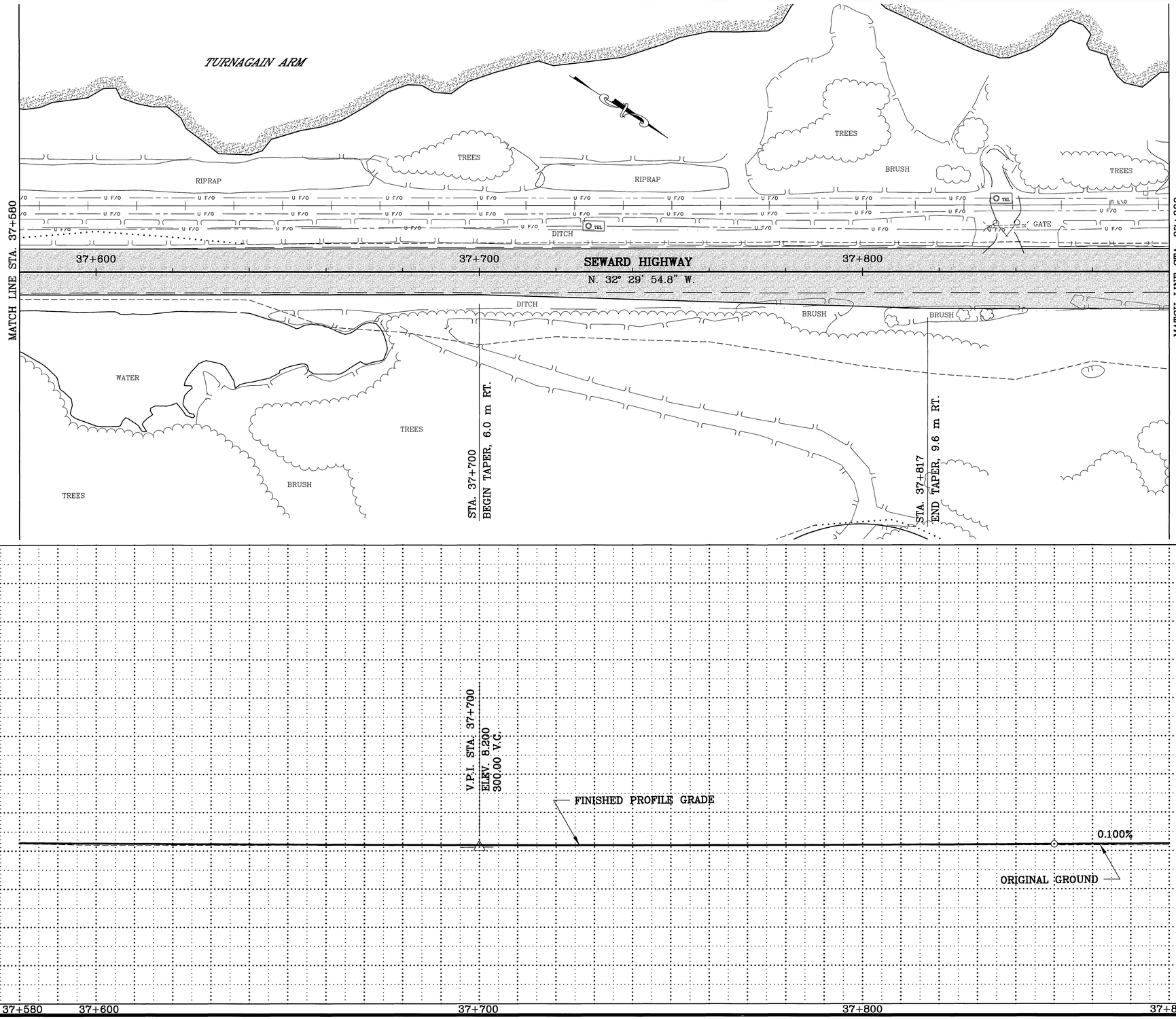
STATE OF ALASKA
JUDY J. DOUGHERTY
CE 8823
6-14-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND RECREATIONAL IMPROVEMENTS

BIRD FLATS AREA
HIGHWAY
PLAN AND PROFILE

SPECIFICATIONS
SCALE 1=1
COMPUTER: DGS1(0A3-1(28))
AUTOCAD-CARDLEE: SDSKPROJ\SJS57\77PP
VIEW= HALF02
DESIGNED BY
CHECKED BY KBM
DRAFTED BY
8/8/01



SHEET NO.	TOTAL SHEETS
F3	F13
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

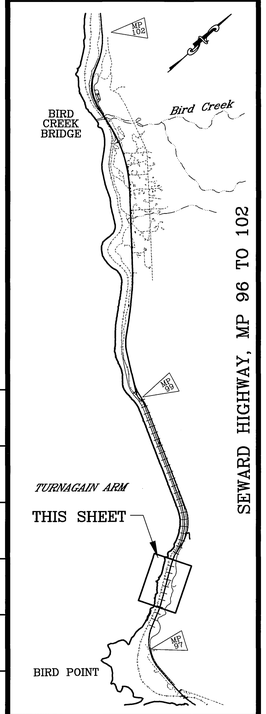
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

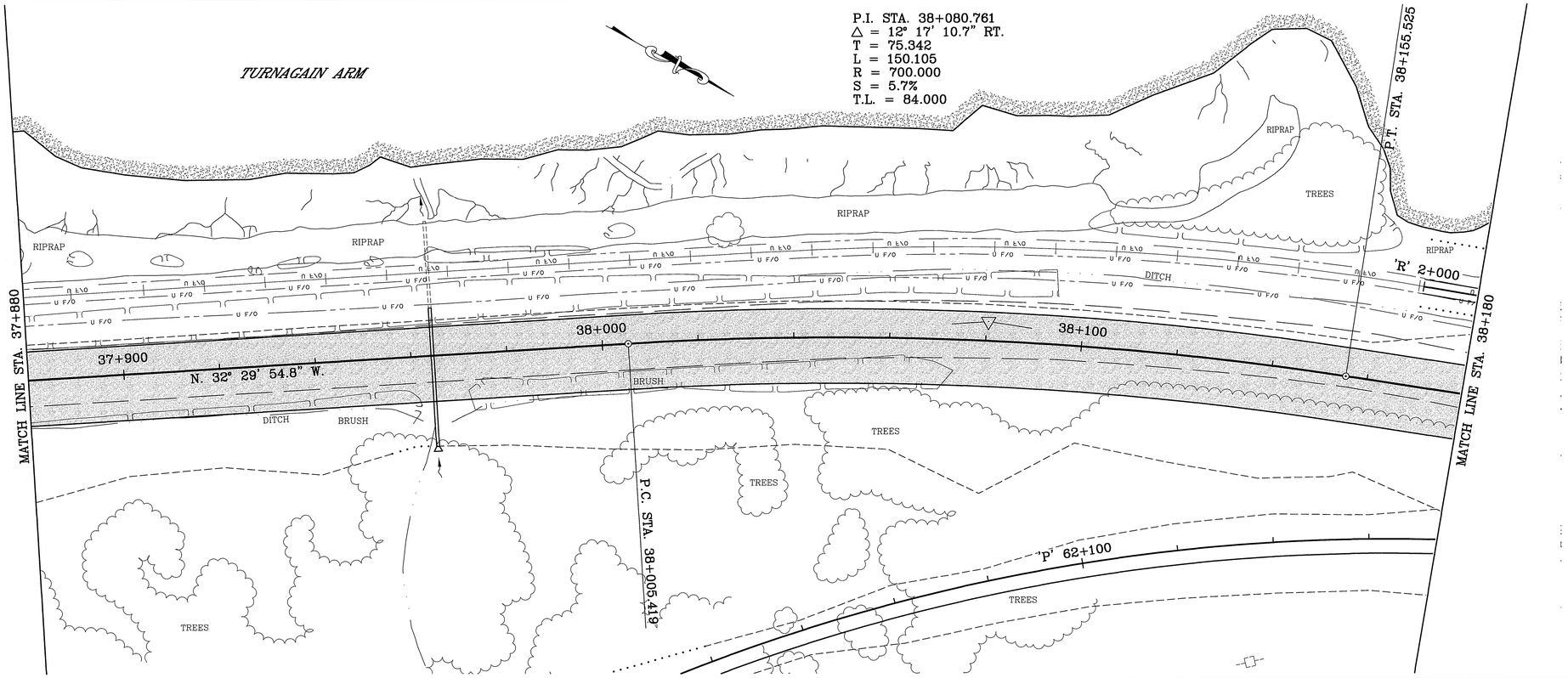
STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
6-18-02
REGISTERED PROFESSIONAL ENGINEER

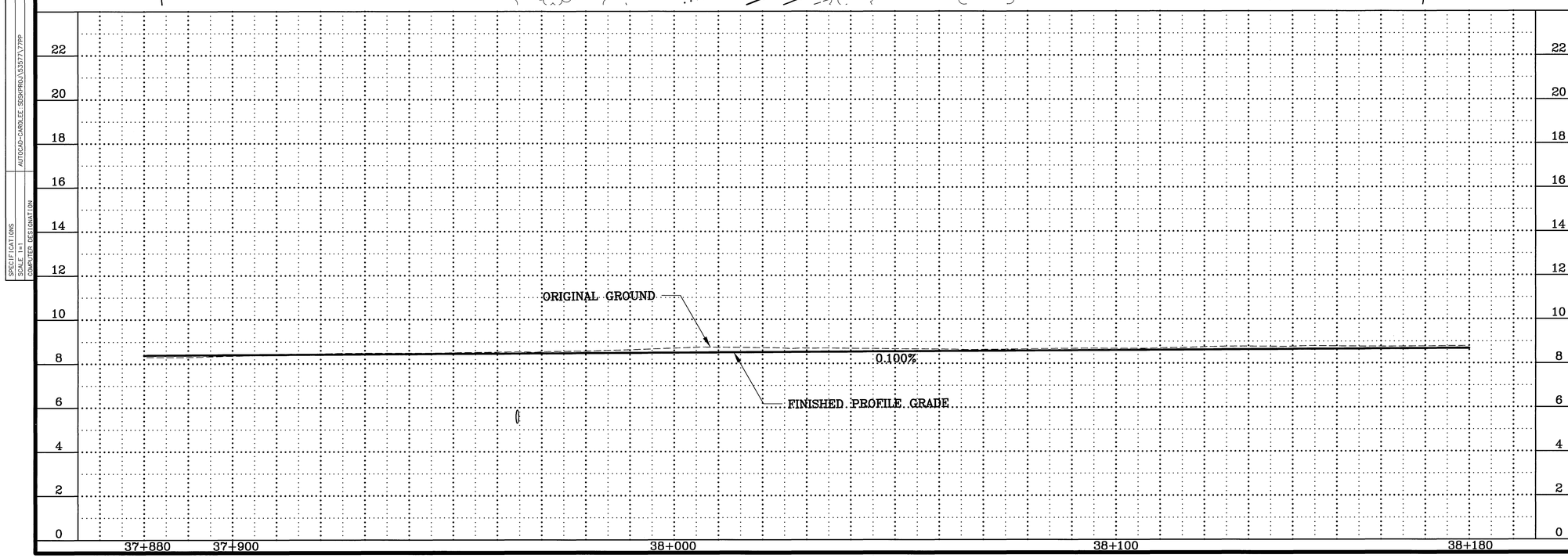
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

BIRD FLATS AREA
HIGHWAY
PLAN AND PROFILE

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-CARLEE:SDSKPROJ\53577\77PP
VIEW: HALF03
DESIGNED BY
CHECKED BY
DRAWN BY KMH
8/8/01





SHEET NO.	TOTAL SHEETS
F4	F13
STATE	YEAR
ALASKA	2002

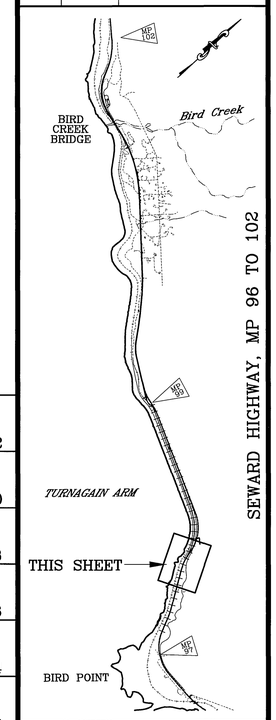
PROJECT DESIGNATION
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

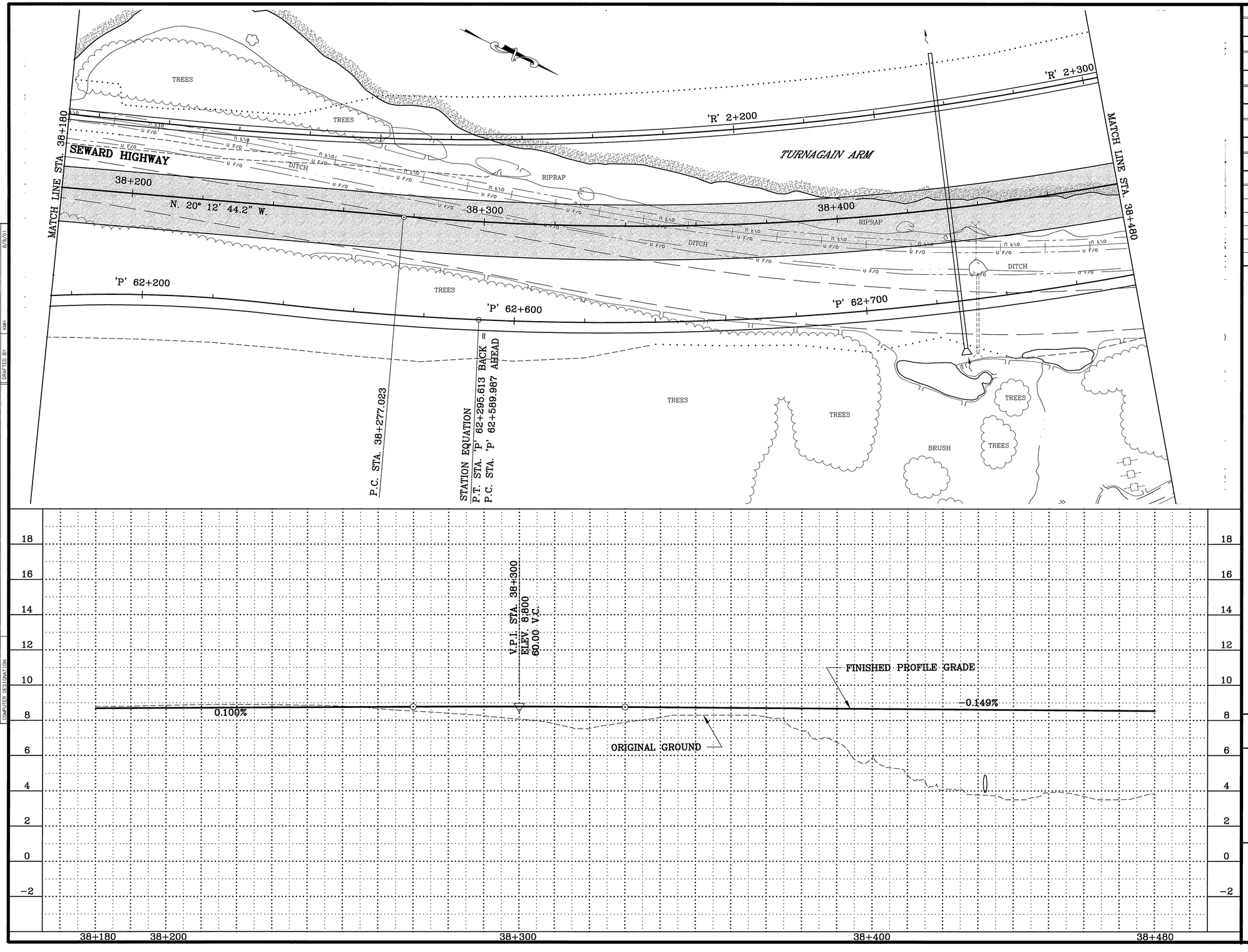
STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

BIRD FLATS AREA
HIGHWAY
PLAN AND PROFILE

SPECIFICATIONS
SCALE 1=1
COORDINATES: (2STGNAT)(0)
AUTOCAD-CAROLEE:SBSKPROJ\S357\77PP
VIEW= HALF04
DESIGNED BY
CHECKED BY
DRAWN BY KMH
9/8/01



SHEET NO.	TOTAL SHEETS
F5	F13
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

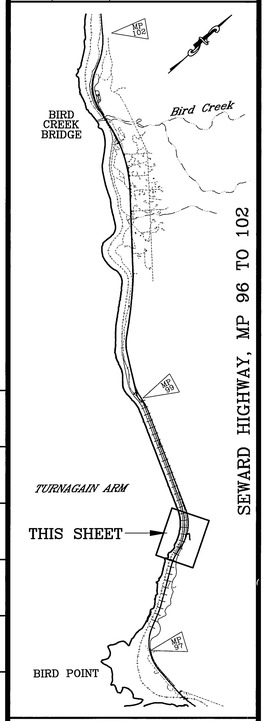
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

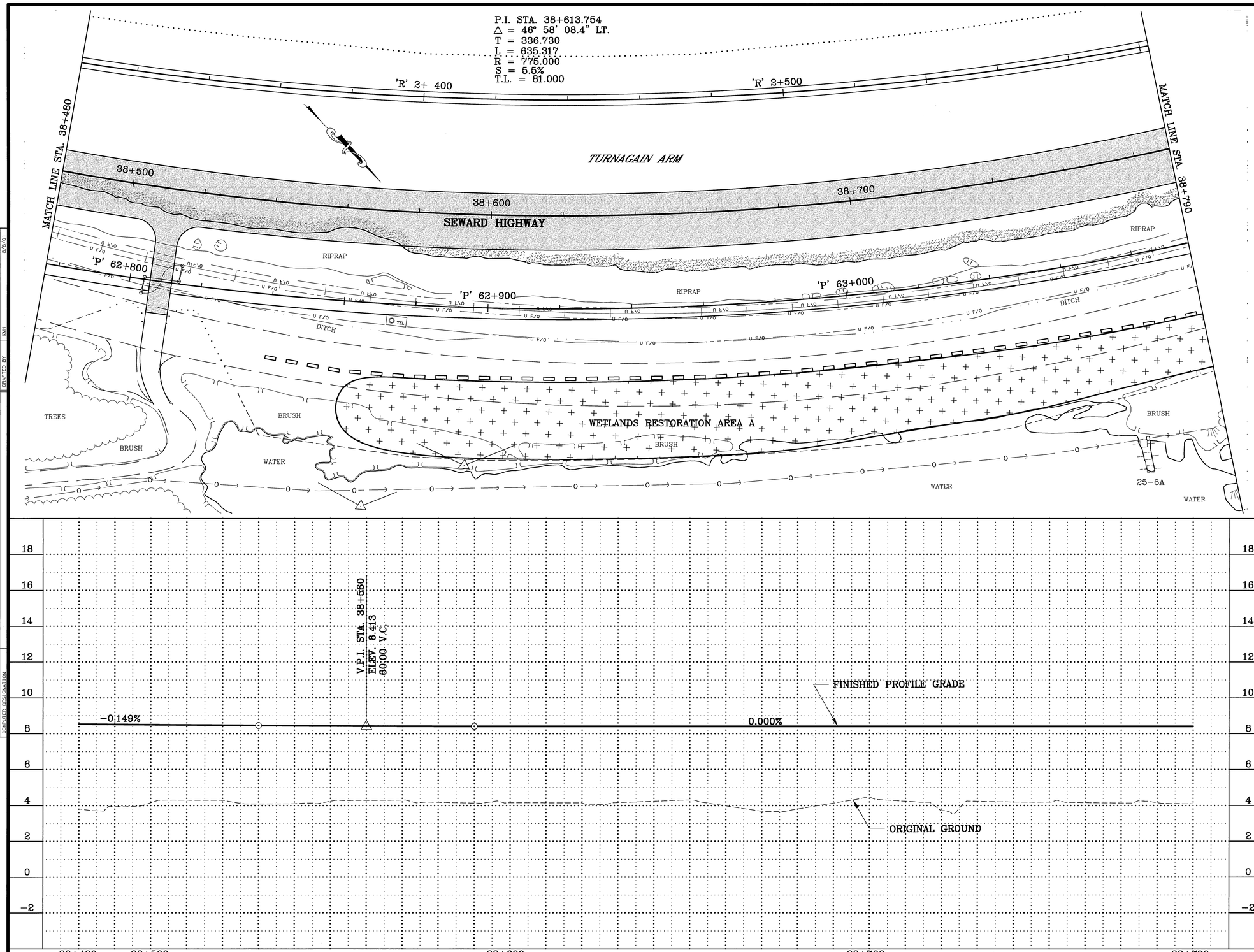
STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

BIRD FLATS AREA
HIGHWAY
PLAN AND PROFILE

SPECIFICATIONS
SCALE 1:1
COORDINATE DESIGNATION
AUTOCAD-CARDLEE: SDSKPROJ\S357\7PP
VIEW= HALFDB
DESIGNED BY
CHECKED BY
DRAWED BY KBM
8/8/01



SHEET NO.	TOTAL SHEETS
F6	F13
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

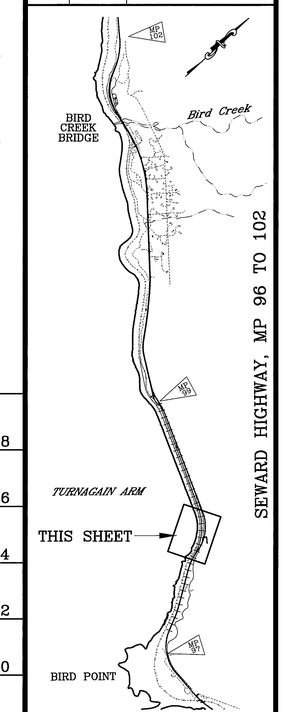
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

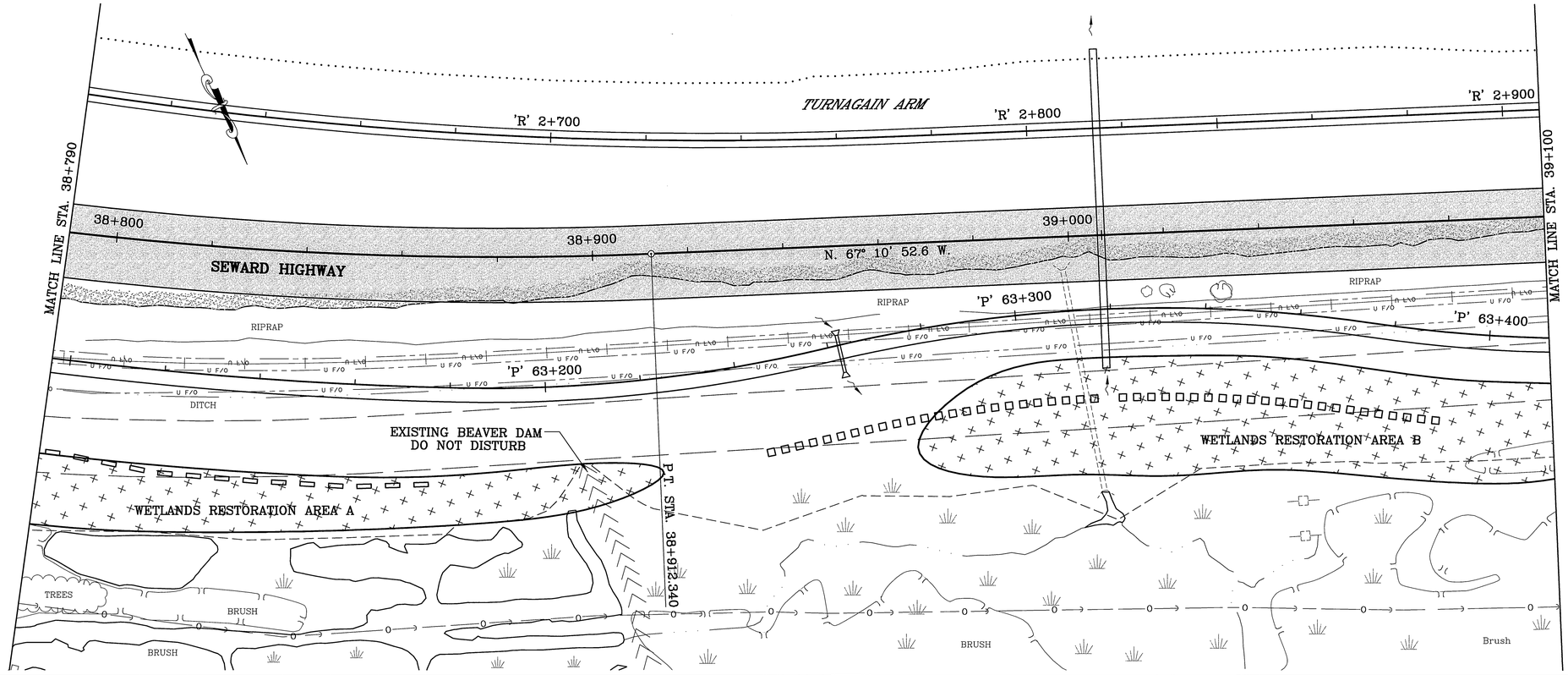
STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
6-18-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

BIRD FLATS AREA
HIGHWAY
PLAN AND PROFILE

SPECIFICATIONS
SCALE: 1:1
COMPUTER DESIGNATION
AUTOCAD-CARDLEE: SIDSKPROJ\S3577\77PP
DESIGNED BY
CHECKED BY
DRAFTED BY KMM
VIEW# HALP06
8/8/01

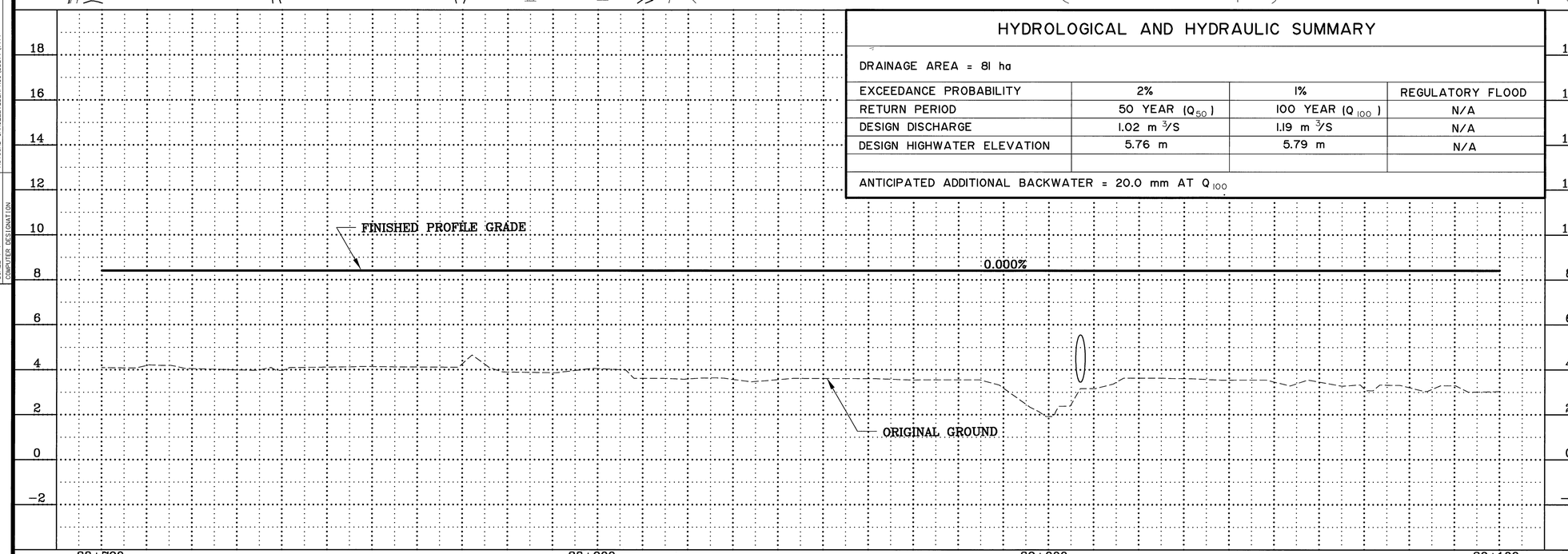


HYDROLOGICAL AND HYDRAULIC SUMMARY

DRAINAGE AREA = 81 ha

EXCEEDANCE PROBABILITY	2%	1%	REGULATORY FLOOD
RETURN PERIOD	50 YEAR (Q_{50})	100 YEAR (Q_{100})	N/A
DESIGN DISCHARGE	1.02 m^3/S	1.19 m^3/S	N/A
DESIGN HIGHWATER ELEVATION	5.76 m	5.79 m	N/A

ANTICIPATED ADDITIONAL BACKWATER = 20.0 mm AT Q_{100}



SHEET NO.	TOTAL SHEETS
F7	F13
STATE	YEAR
ALASKA	2002

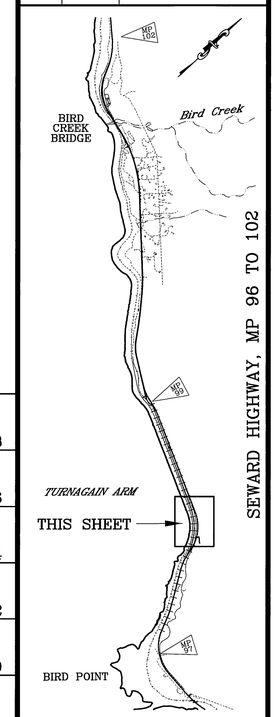
PROJECT DESIGNATION
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

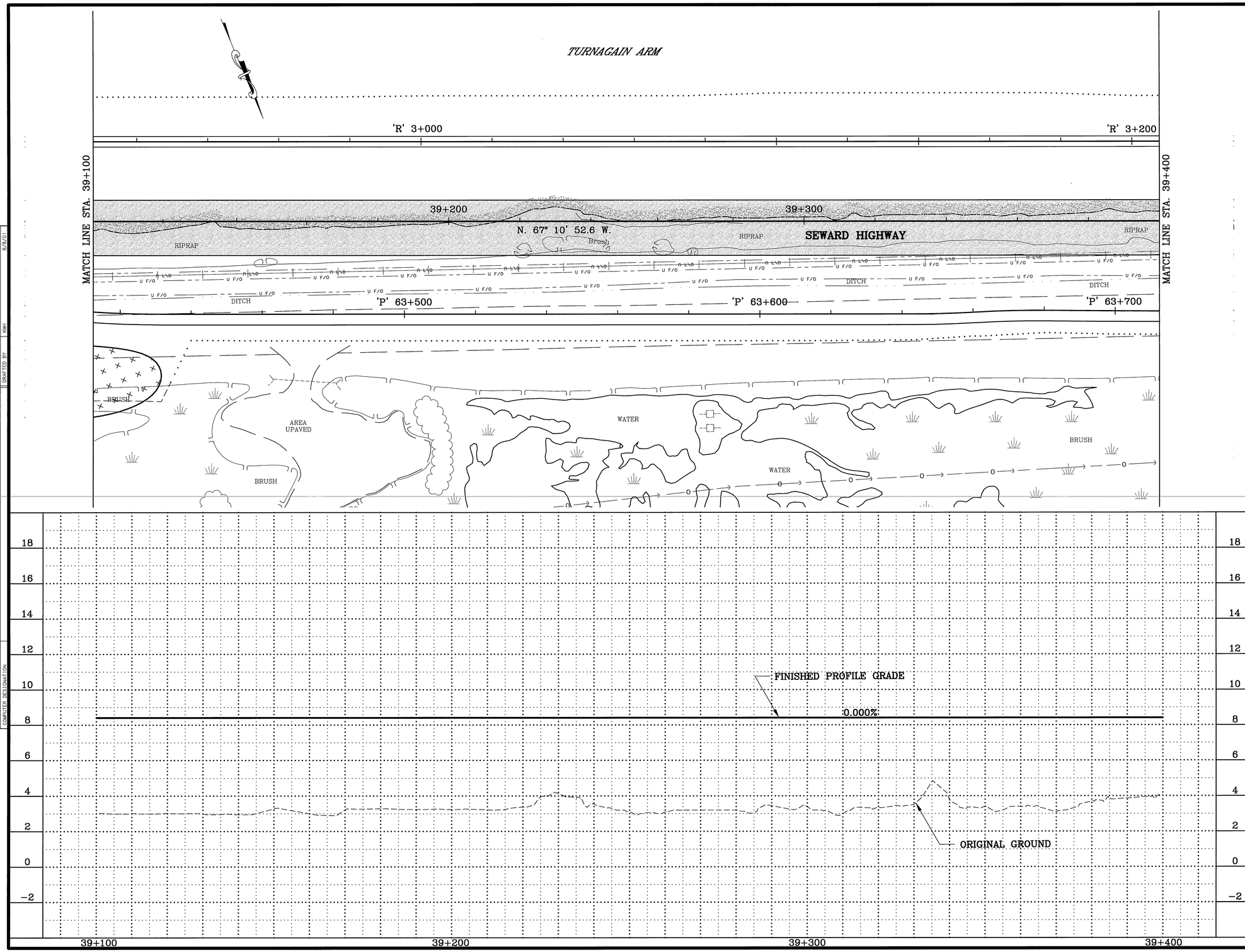
STATE OF ALASKA 49TH JUDY J. DOUGHERTY CE 8823 6-15-02 REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND RECREATIONAL IMPROVEMENTS

BIRD FLATS AREA HIGHWAY
PLAN AND PROFILE

SPECIFICATIONS | SCALE 1:1 | COMPUTER DESIGNATION | AUTOCAD-CARDLEE: S:\SKPROJ\A3537\77PP | VIEW= HALFOY | DESIGNED BY | CHECKED BY | DRAFTED BY | KMH | 8/8/01



SHEET NO.	TOTAL SHEETS
F8	F13
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

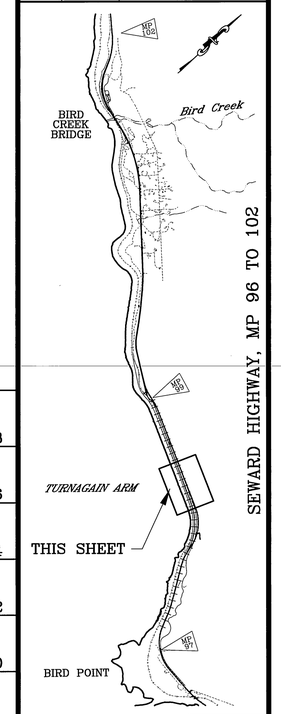
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
REGISTERED PROFESSIONAL ENGINEER

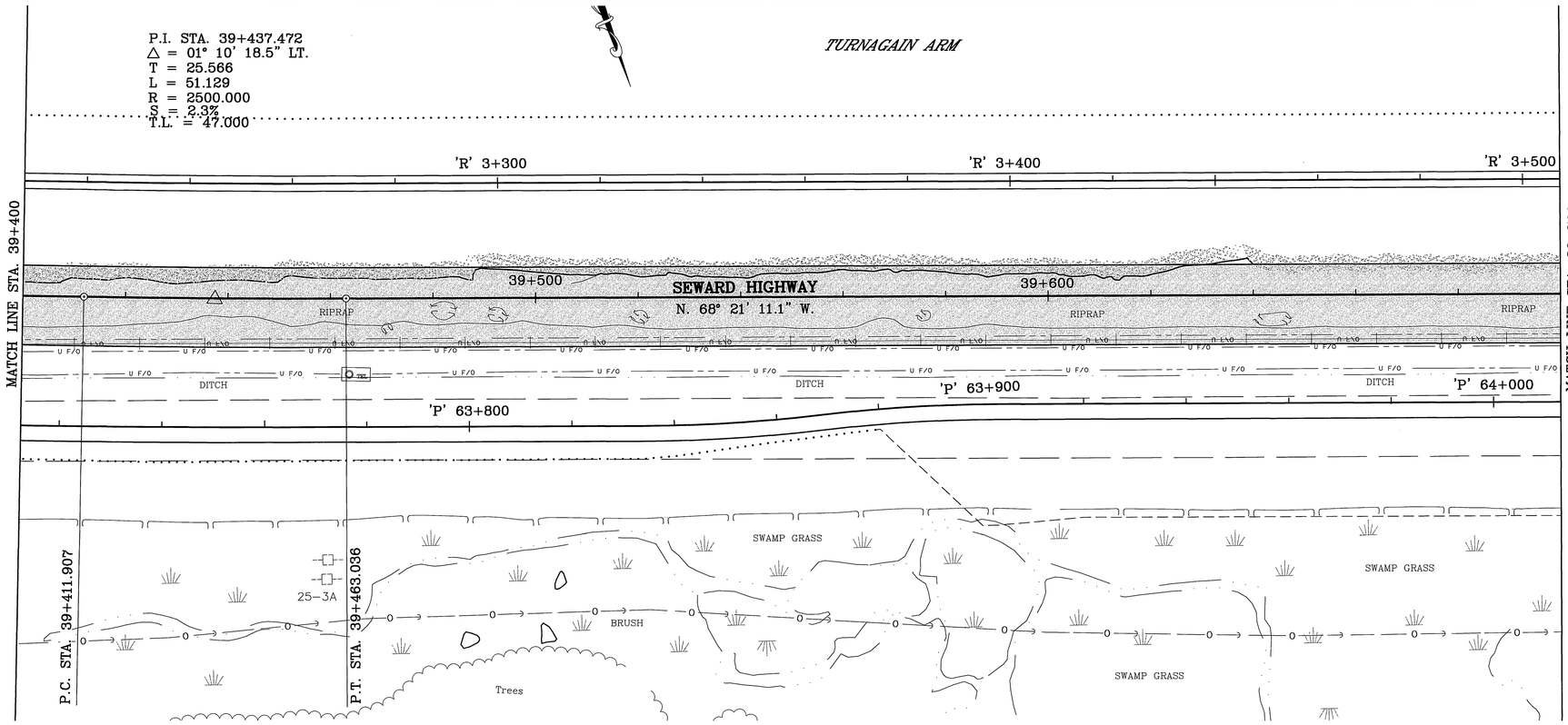
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

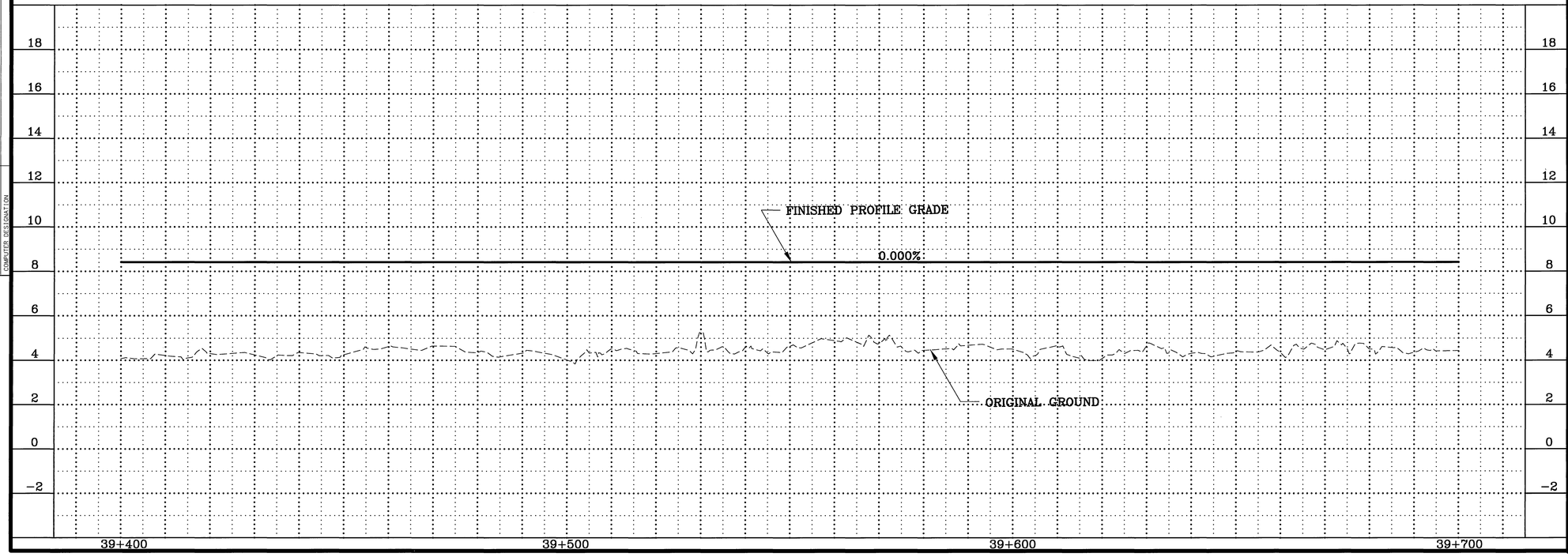
SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND RECREATIONAL IMPROVEMENTS

BIRD FLATS AREA HIGHWAY
PLAN AND PROFILE

SPECIFICATIONS
SCALE 1=1
COMPUTER RESTORATION
AUTOCAD-CARDLEE :95SKPROJ\S3577\77PP
VIEW: HALF08
DESIGNED BY
CHECKED BY
DRAWN BY KMH
8/8/01

P.I. STA. 39+437.472
△ = 01° 10' 18.5" LT.
T = 25.566
L = 51.129
R = 2500.000
S = 2.3%
T.L. = 47.000





SHEET NO.	TOTAL SHEETS
F9	F13
STATE	YEAR
ALASKA	2002

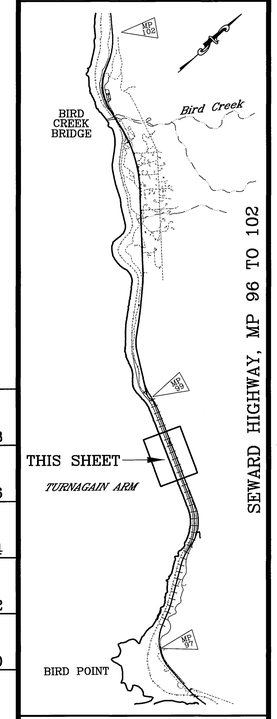
PROJECT DESIGNATION
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

STATE OF ALASKA 49TH JUDY J. DOUGHERTY CE 8823 6-14-02 REGISTERED PROFESSIONAL ENGINEER

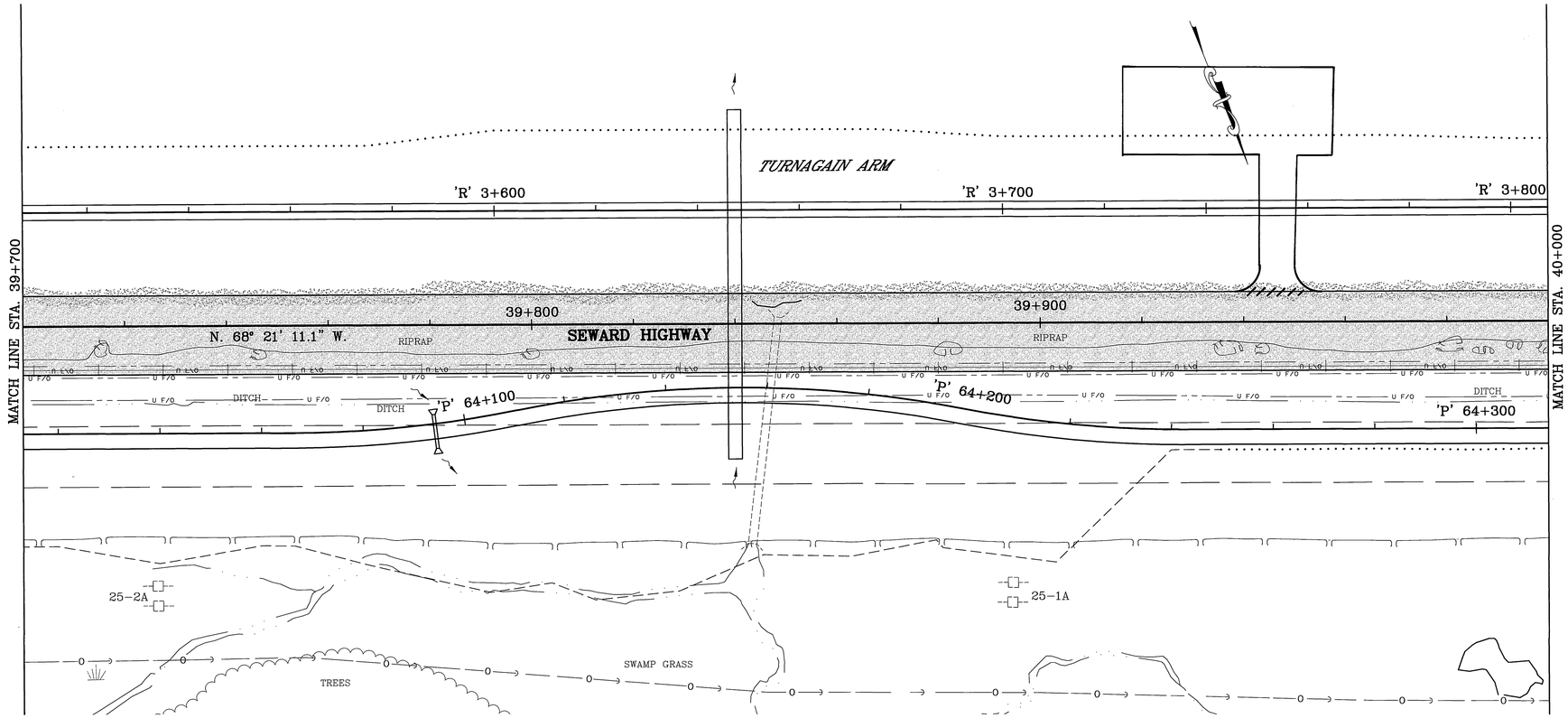
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

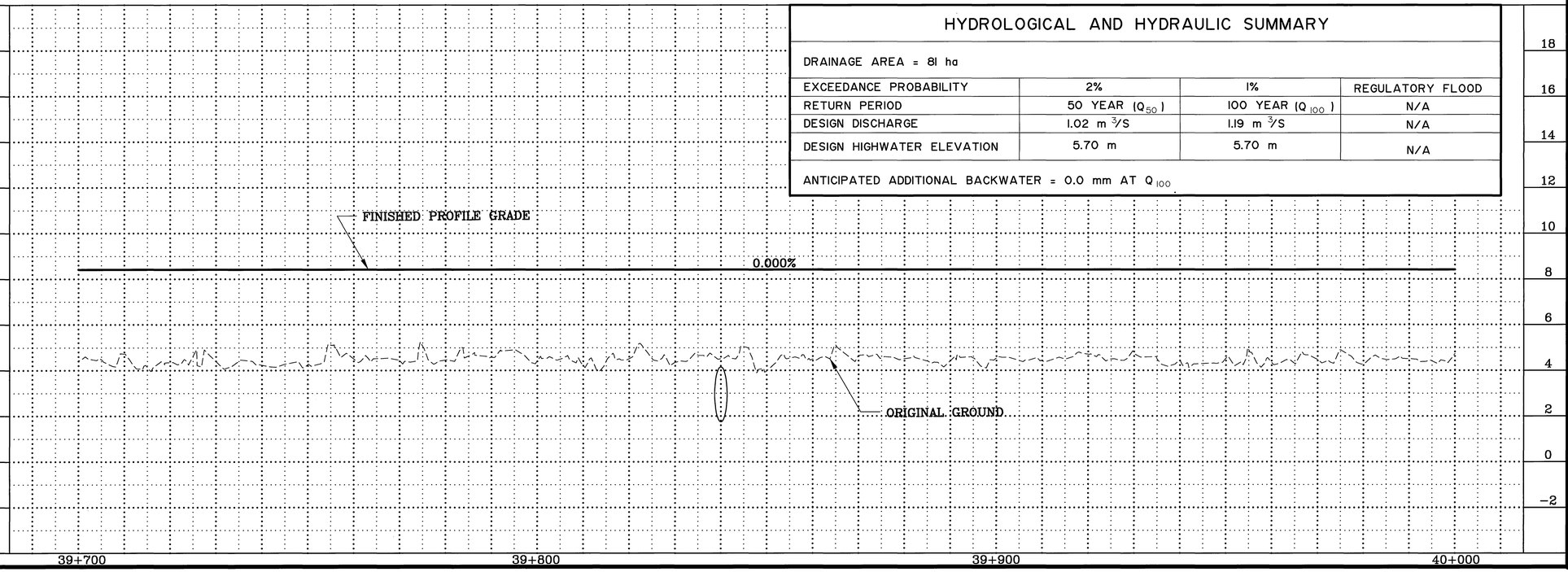
SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND RECREATIONAL IMPROVEMENTS

BIRD FLATS AREA
HIGHWAY
PLAN AND PROFILE

SPECIFICATIONS
SCALE 1=1
COORDINATE DESIGNATION

AUTOCAD-CAROLEE: SESKPROJ\S357\7\7PP
VIEW: HALF09
DESIGNED BY
CHECKED BY
DRAFTED BY KSM
8/8/01





HYDROLOGICAL AND HYDRAULIC SUMMARY

DRAINAGE AREA = 81 ha

EXCEEDANCE PROBABILITY	2%	1%	REGULATORY FLOOD
RETURN PERIOD	50 YEAR (Q_{50})	100 YEAR (Q_{100})	N/A
DESIGN DISCHARGE	1.02 m^3/S	1.19 m^3/S	N/A
DESIGN HIGHWATER ELEVATION	5.70 m	5.70 m	N/A

ANTICIPATED ADDITIONAL BACKWATER = 0.0 mm AT Q_{100}

SHEET NO.	TOTAL SHEETS
F10	F13
STATE	YEAR
ALASKA	2002

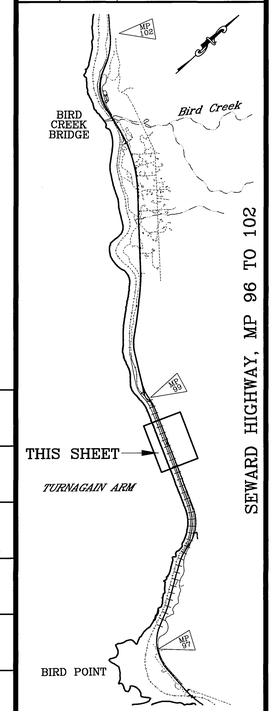
PROJECT DESIGNATION
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

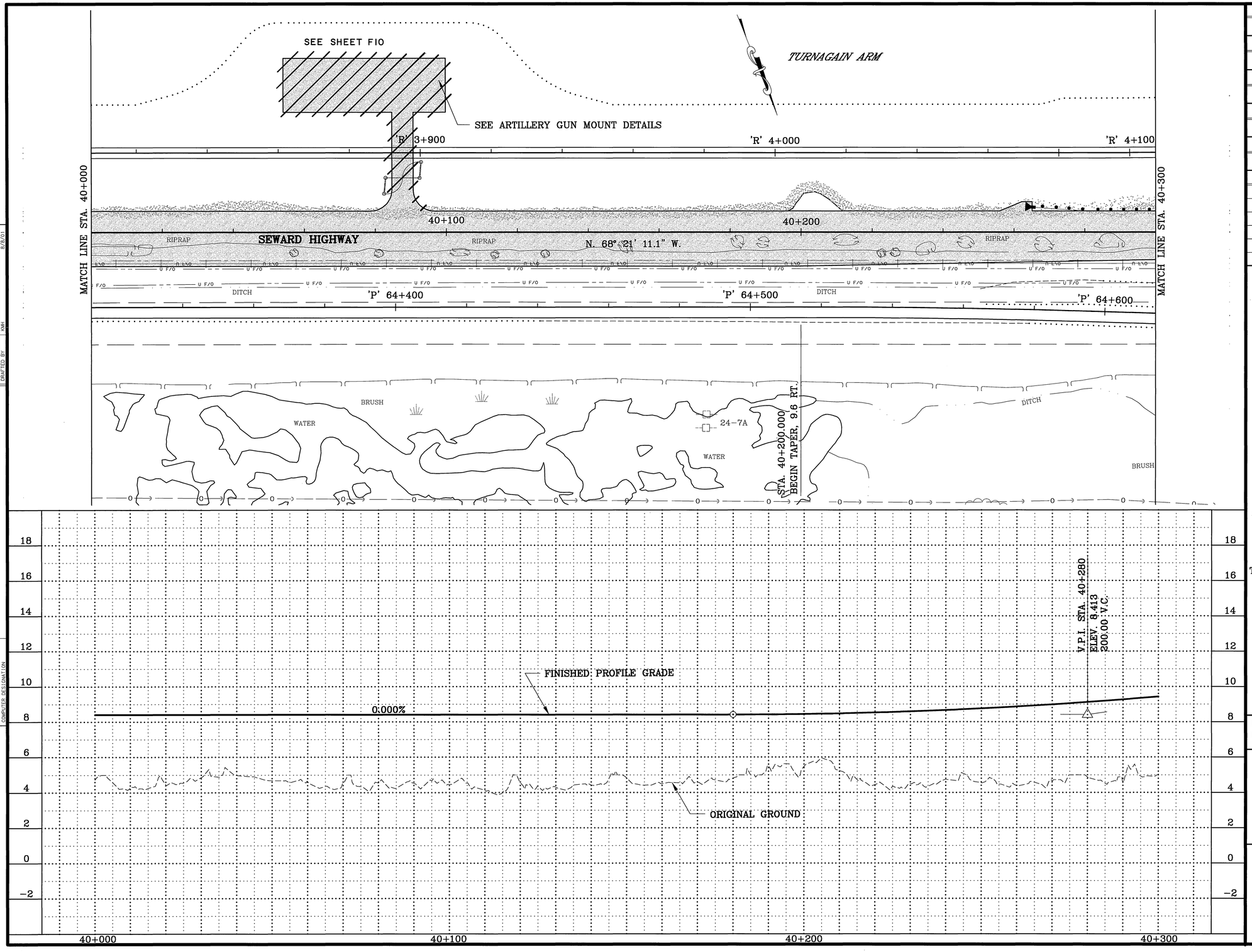
STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
6-18-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND RECREATIONAL IMPROVEMENTS

BIRD FLATS AREA
HIGHWAY
PLAN AND PROFILE

SPECIFICATIONS | AUTOCAD-CARGILE: S:\SKPROJ\S357\77PP
SCALE 1=1 | COMPUTER DESIGNATION
VIEW: HALTO | DESIGNED BY | CHECKED BY | DRAWN BY: KMH | 8/8/01



SHEET NO.	TOTAL SHEETS
F11	F13
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

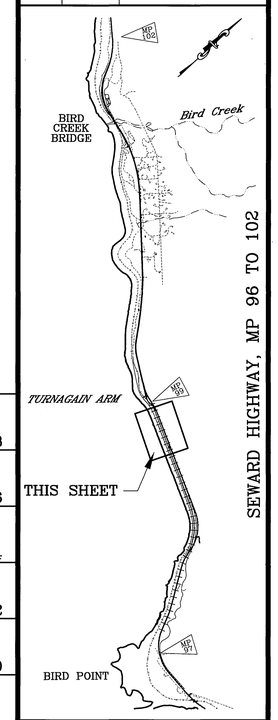
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

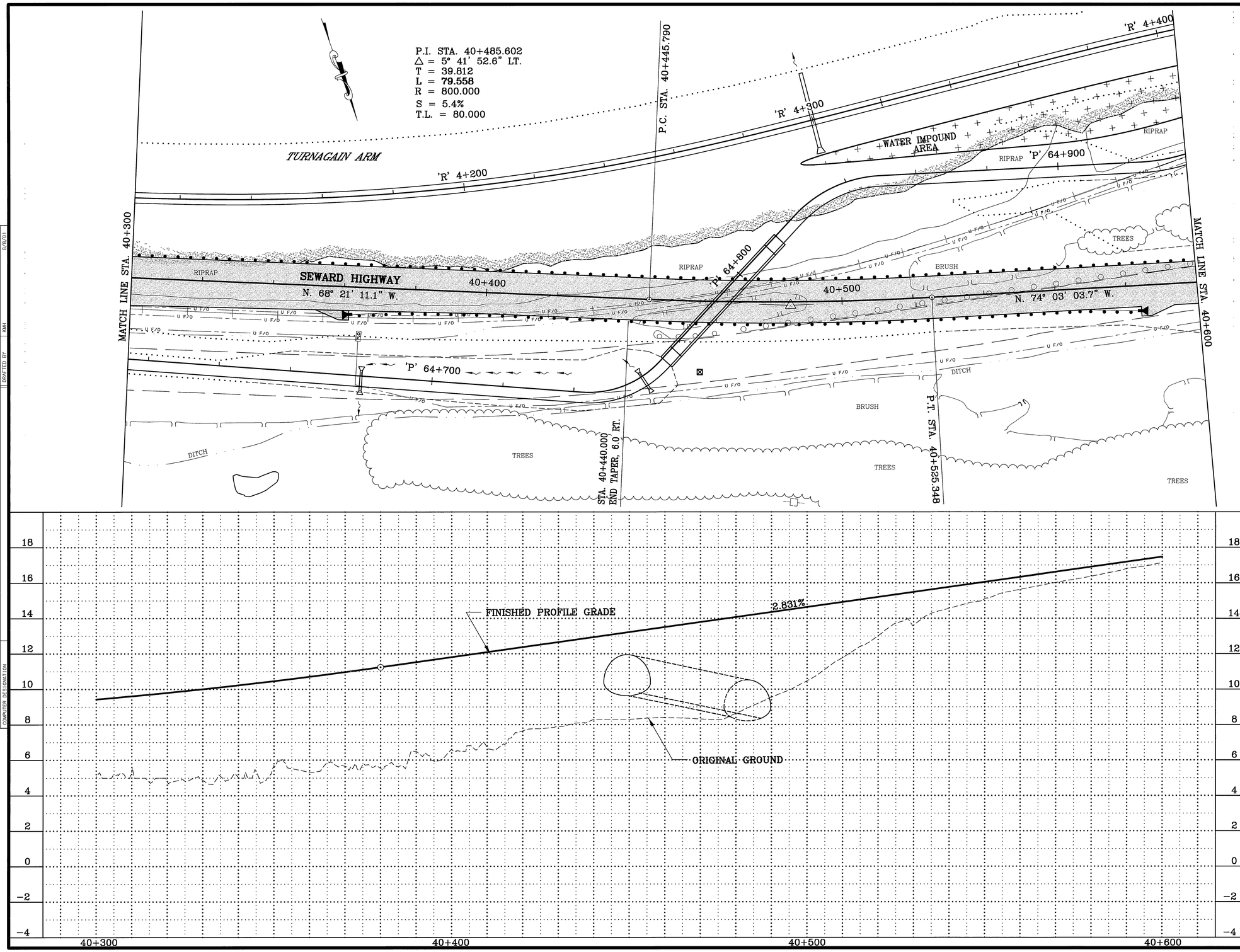
STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
6/18/02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

BIRD FLATS AREA
HIGHWAY
PLAN AND PROFILE

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-CAROLEE: SDSKPRO.V3597\7PP
DESIGNED BY
CHECKED BY
DRAFTED BY KMH 8/8/01
VIEW= HALFR



SHEET NO.	TOTAL SHEETS
F12	F13
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

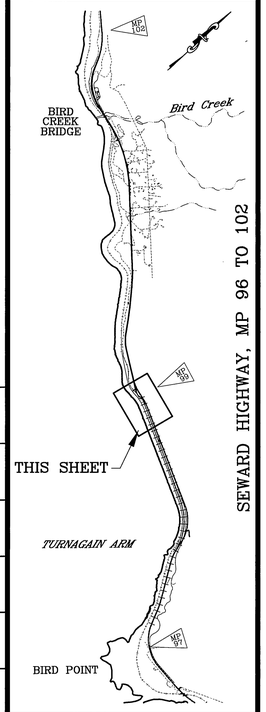
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

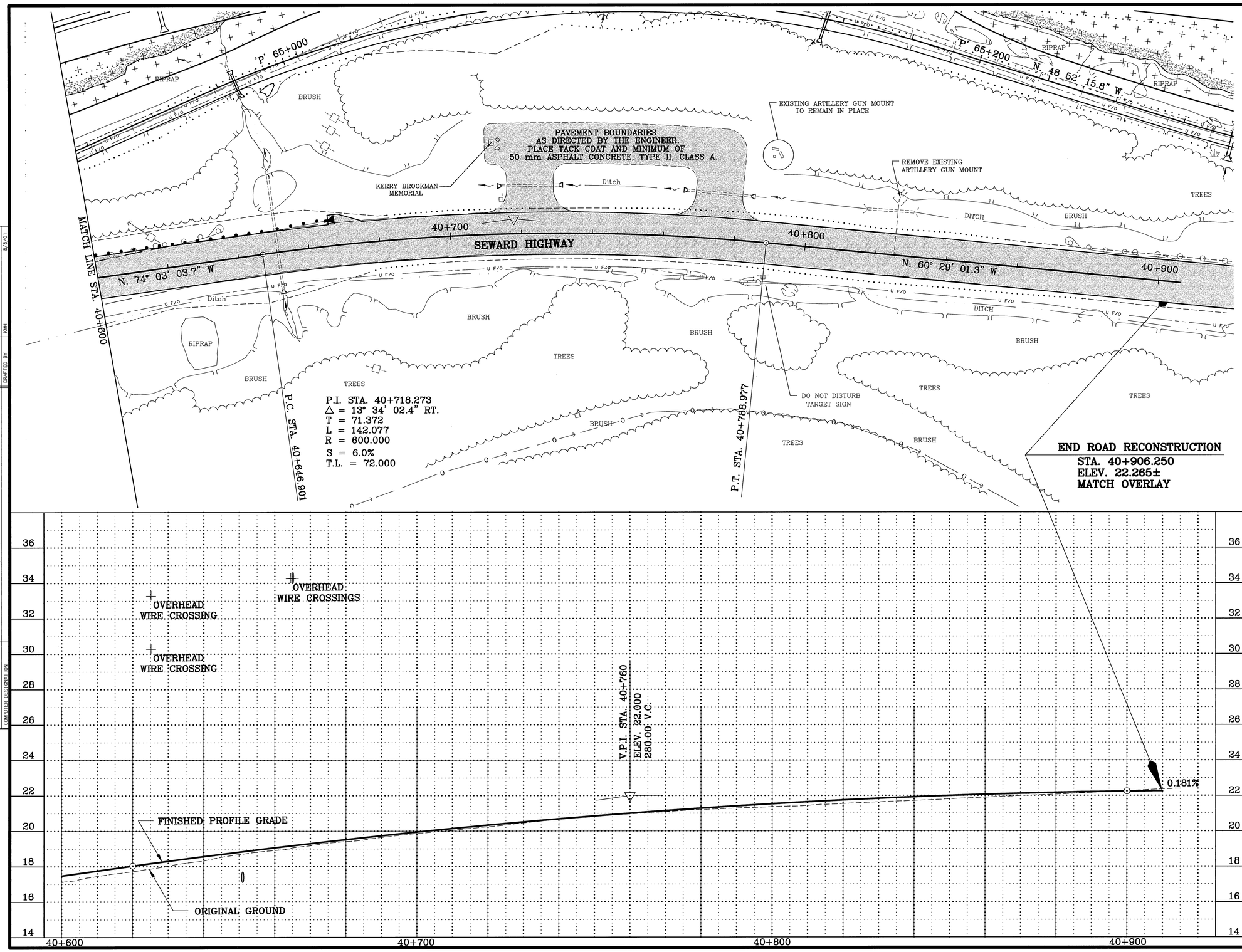
STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND RECREATIONAL IMPROVEMENTS

BIRD FLATS AREA
HIGHWAY
PLAN AND PROFILE

SPECIFICATIONS
SCALE 1=1
COORDINATE DESIGNATION
AUTOCAD-CAROLLEE: SSSKPROJ\53577\77P
VIEW= HALF12
DESIGNED BY
CHECKED BY
DRAWN BY KMH
8/8/01



SHEET NO.	TOTAL SHEETS
F13	F13
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

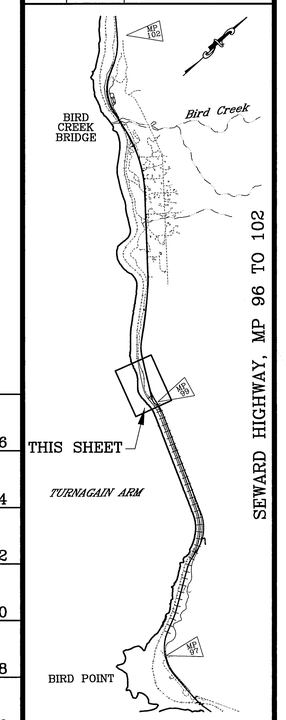
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS
UNLESS OTHERWISE NOTED.

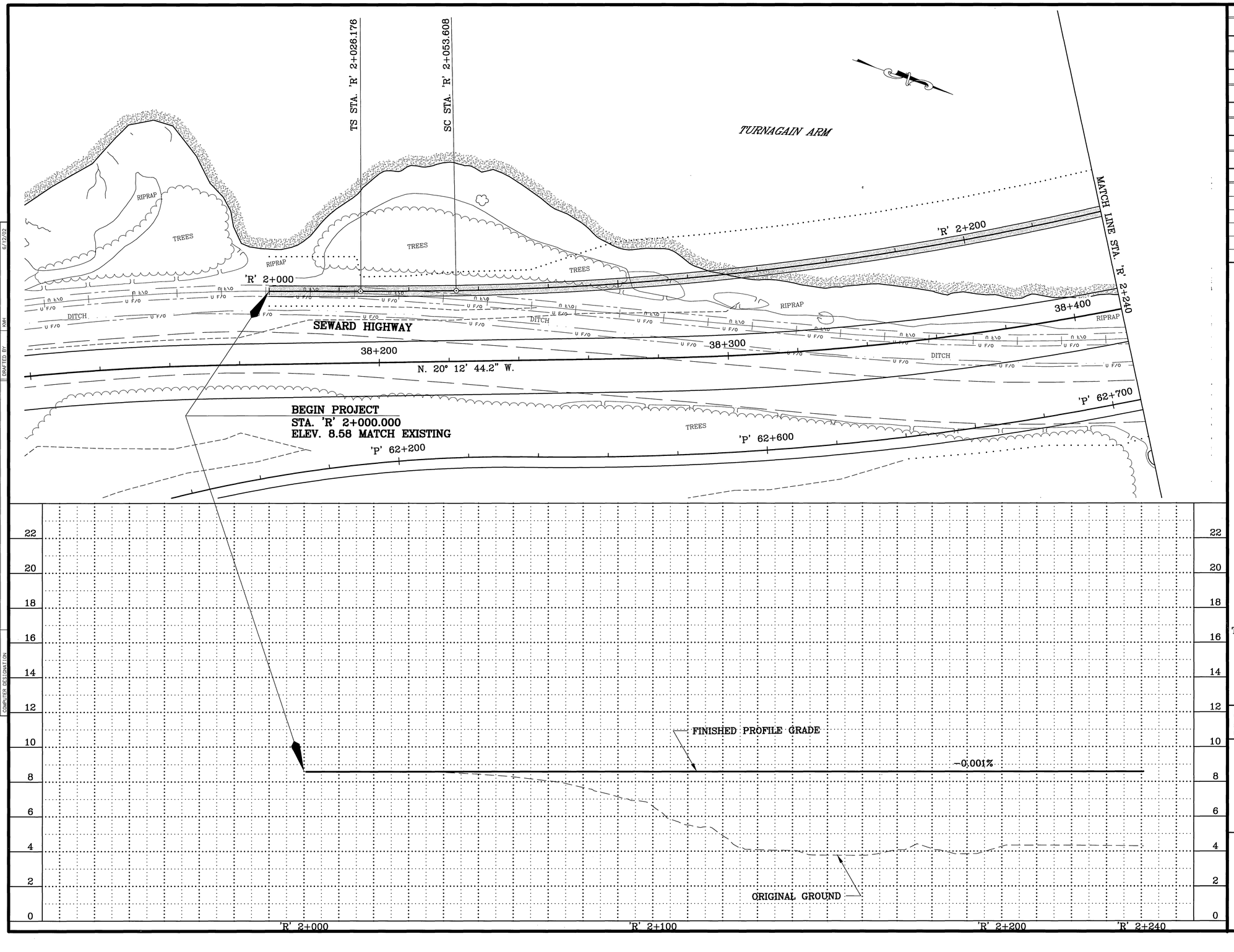
STATE OF ALASKA
JUDY J. DOUGHERTY
CE 8823
11-26-01
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

BIRD FLATS AREA
HIGHWAY
PLAN AND PROFILE

DESIGNED BY	
CHECKED BY	
DRAFTED BY	KMH
VIEW# HALF8	9/8/01
AUTOCAD-CAROLEE: SDSKPRO\V53577\77PP	
SPECIFICATIONS	
SCALE 1=1	
COMPUTER DESIGNATION	



SHEET NO.	TOTAL SHEETS
FR1	FR11
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

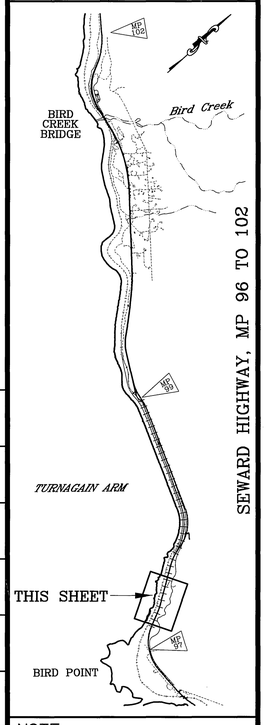
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

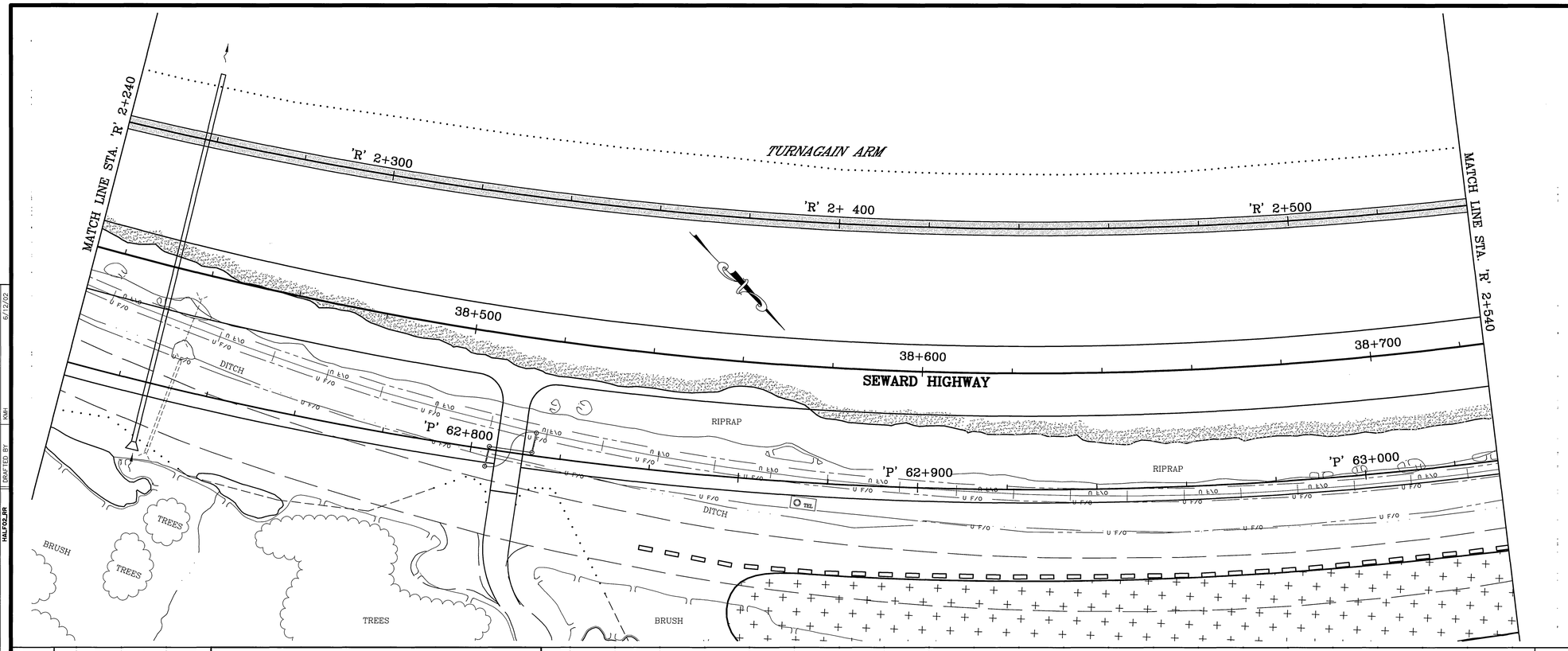
STATE OF ALASKA
JUDY J. DOUGHERTY
CE 8823
6-18-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND RECREATIONAL IMPROVEMENTS

BIRD FLATS AREA
RAILROAD
PLAN AND PROFILE

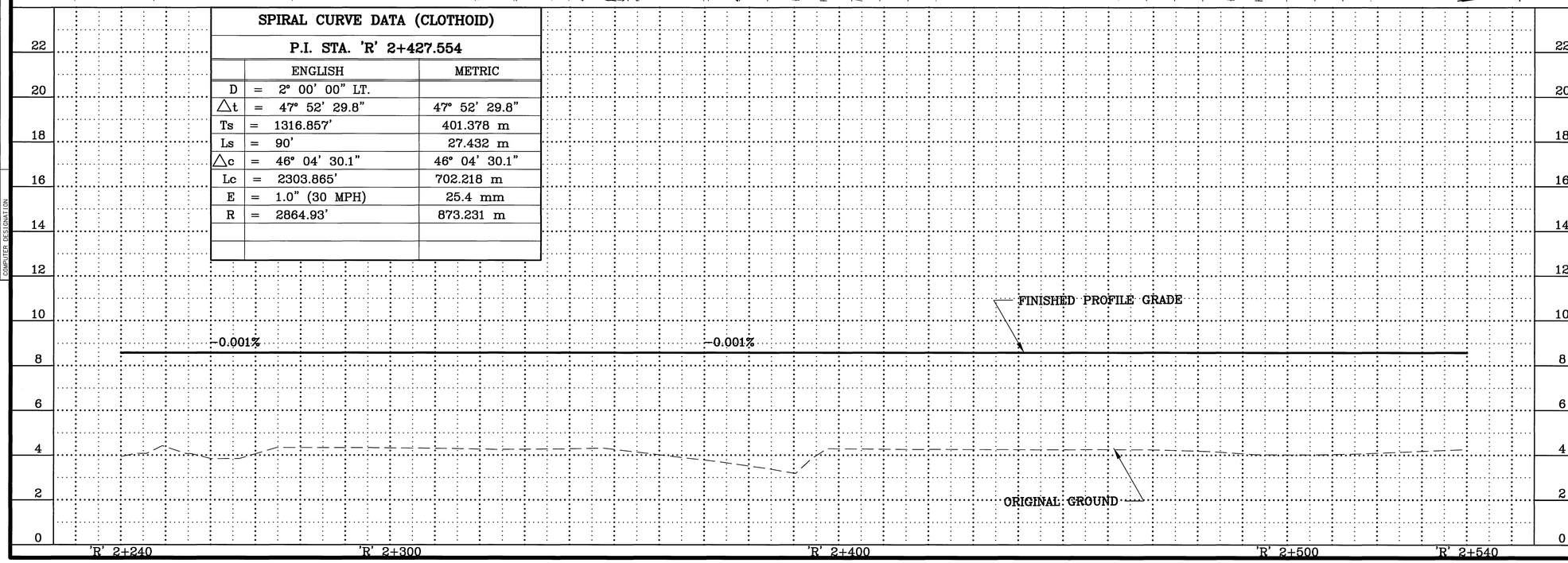
SPECIFICATIONS
SCALE 1=1
COORDINATE REGISTRATION:
AUTOCAD-CARVALEE:\SDSKPROJ\53577\7799-
VIEW= HALPOLAN
DESIGNED BY
CHECKED BY
DRAWN BY KMH
6/12/02



SPIRAL CURVE DATA (CLOTHOID)

P.I. STA. 'R' 2+427.554

		ENGLISH	METRIC
D	=	2° 00' 00" LT.	
△t	=	47° 52' 29.8"	47° 52' 29.8"
Ts	=	1316.857'	401.378 m
Ls	=	90'	27.432 m
△c	=	46° 04' 30.1"	46° 04' 30.1"
Lc	=	2303.865'	702.218 m
E	=	1.0" (30 MPH)	25.4 mm
R	=	2864.93'	873.231 m



SHEET NO.	TOTAL SHEETS
FR2	FR11
STATE	YEAR
ALASKA	2002

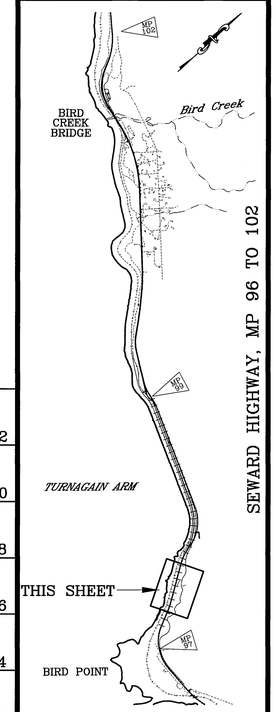
PROJECT DESIGNATION
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION

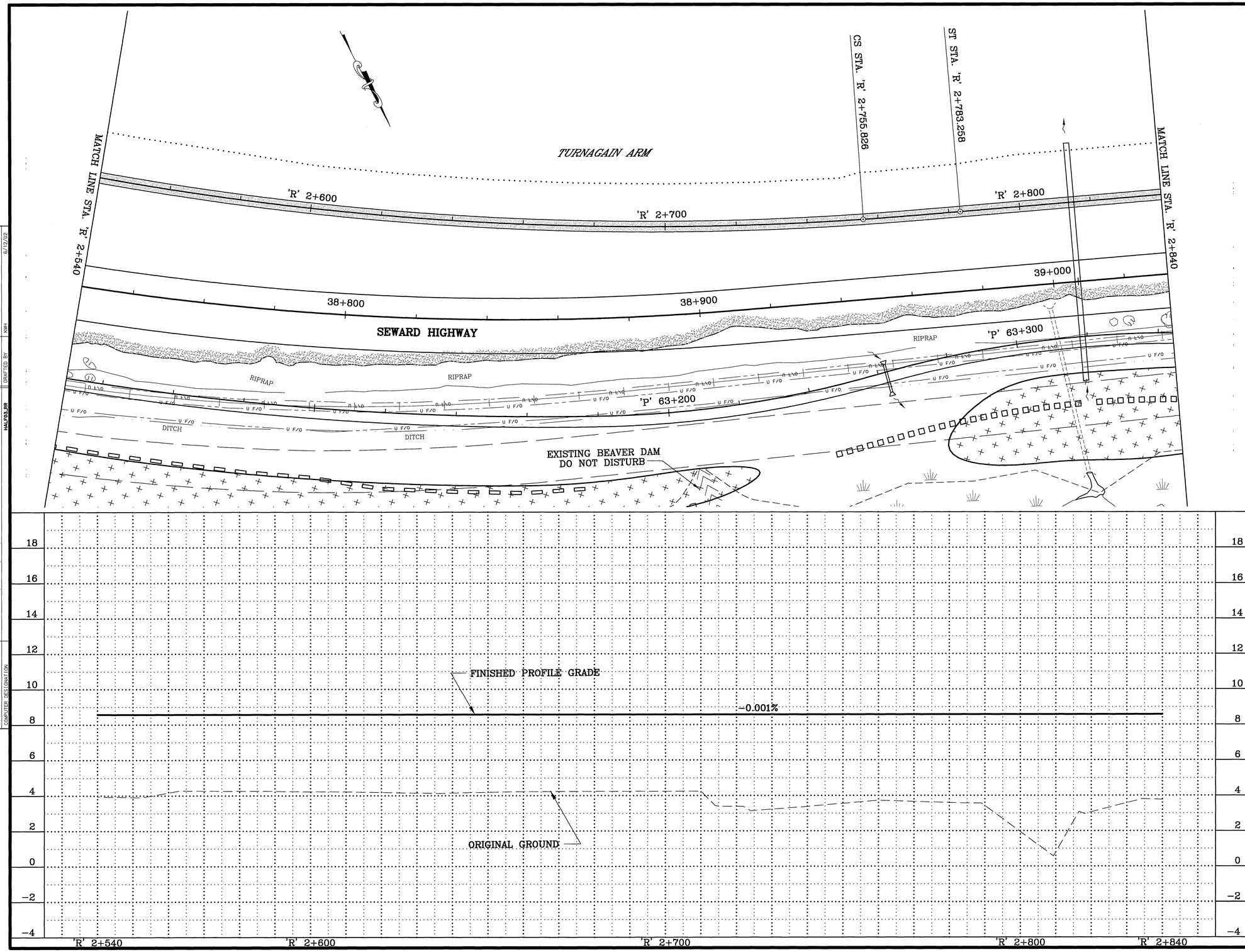


NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

STATE OF ALASKA 49TH JUDY J. DOUGHERTY CE 8823 REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND RECREATIONAL IMPROVEMENTS
BIRD FLATS AREA
RAILROAD
PLAN AND PROFILE

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-CARGLEE:\SBSKPROJ\53577\77PP-
DESIGNED BY
CHECKED BY
DRAWN BY KMH
6/12/02
V1.5Pw
H6A-P02.RR



SHEET NO.	TOTAL SHEETS
FR3	FR11
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

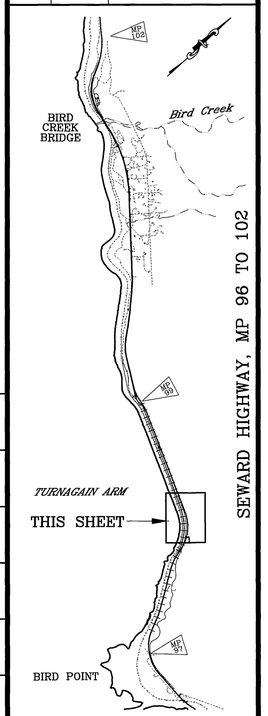
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

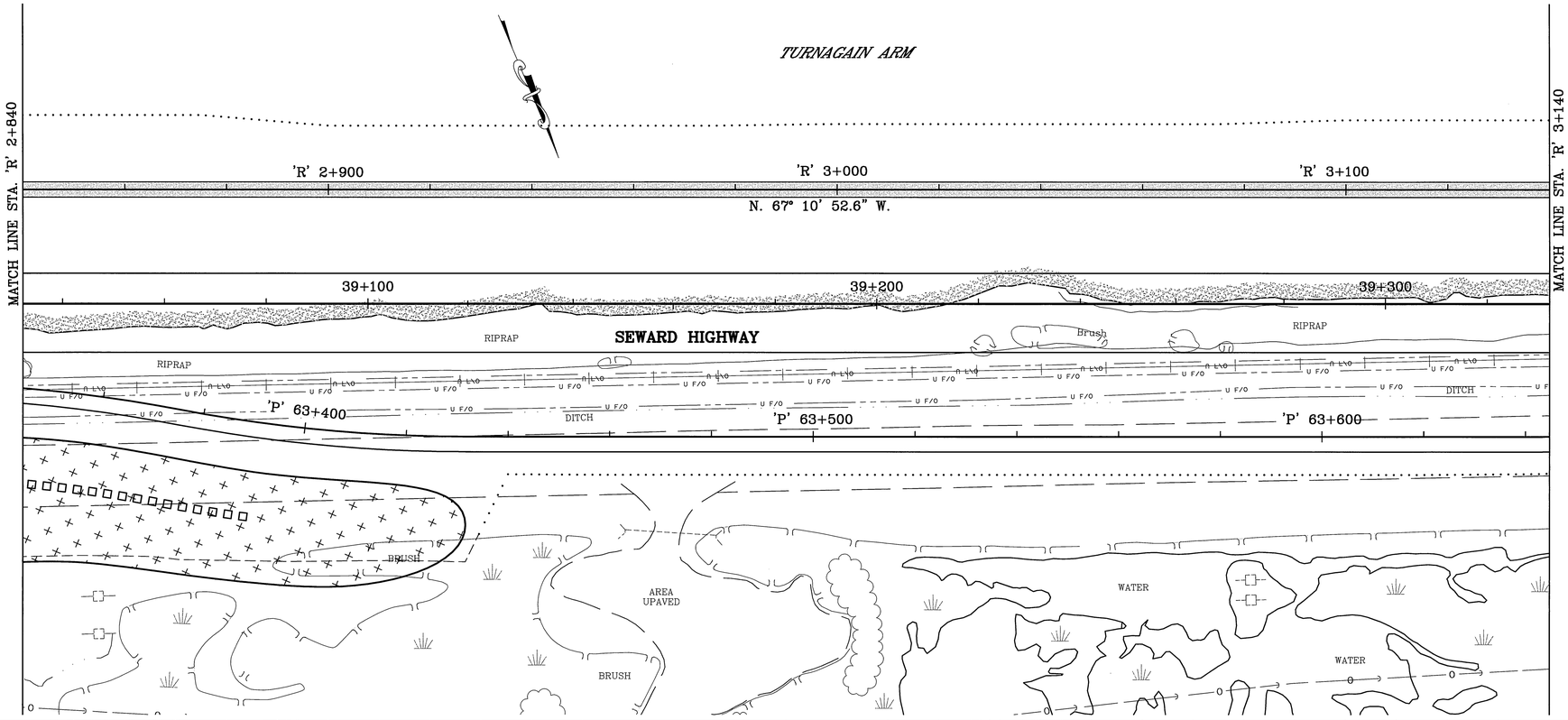
STATE OF ALASKA
JUDY J. DOUGHERTY
CE 8823
REGISTERED PROFESSIONAL ENGINEER

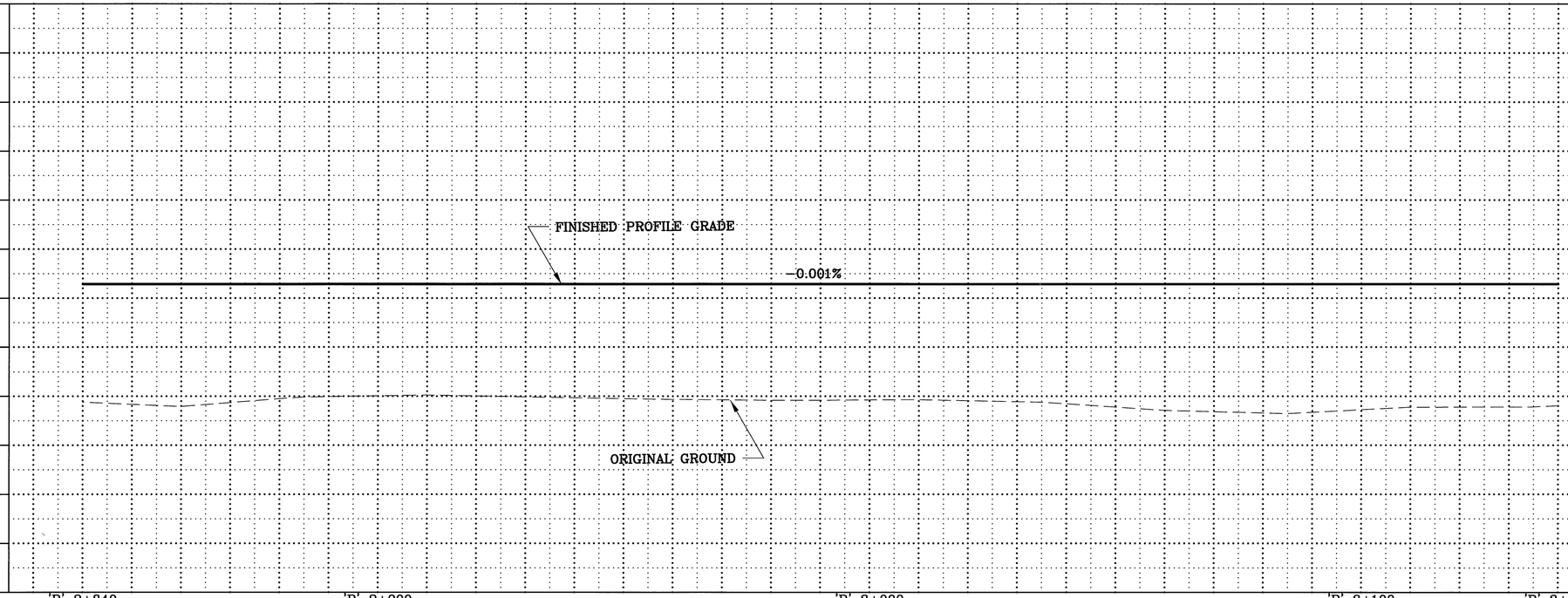
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND RECREATIONAL IMPROVEMENTS

BIRD FLATS AREA
RAILROAD
PLAN AND PROFILE

SPECIFICATIONS
SCALE 1 in
COMPUTER DESIGNATION
AUTOCAD-CARDLEE:\SDSKPROJ\S357\77PP-
U1SHL
MAIN.DWG
DESIGNED BY
CHECKED BY
DRAFTED BY
KMH
6/12/02





SHEET NO.	TOTAL SHEETS
FR4	FR11
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

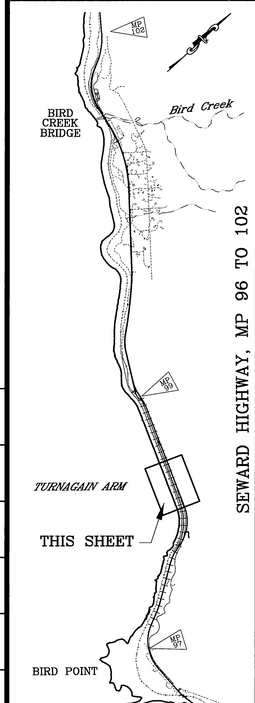
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

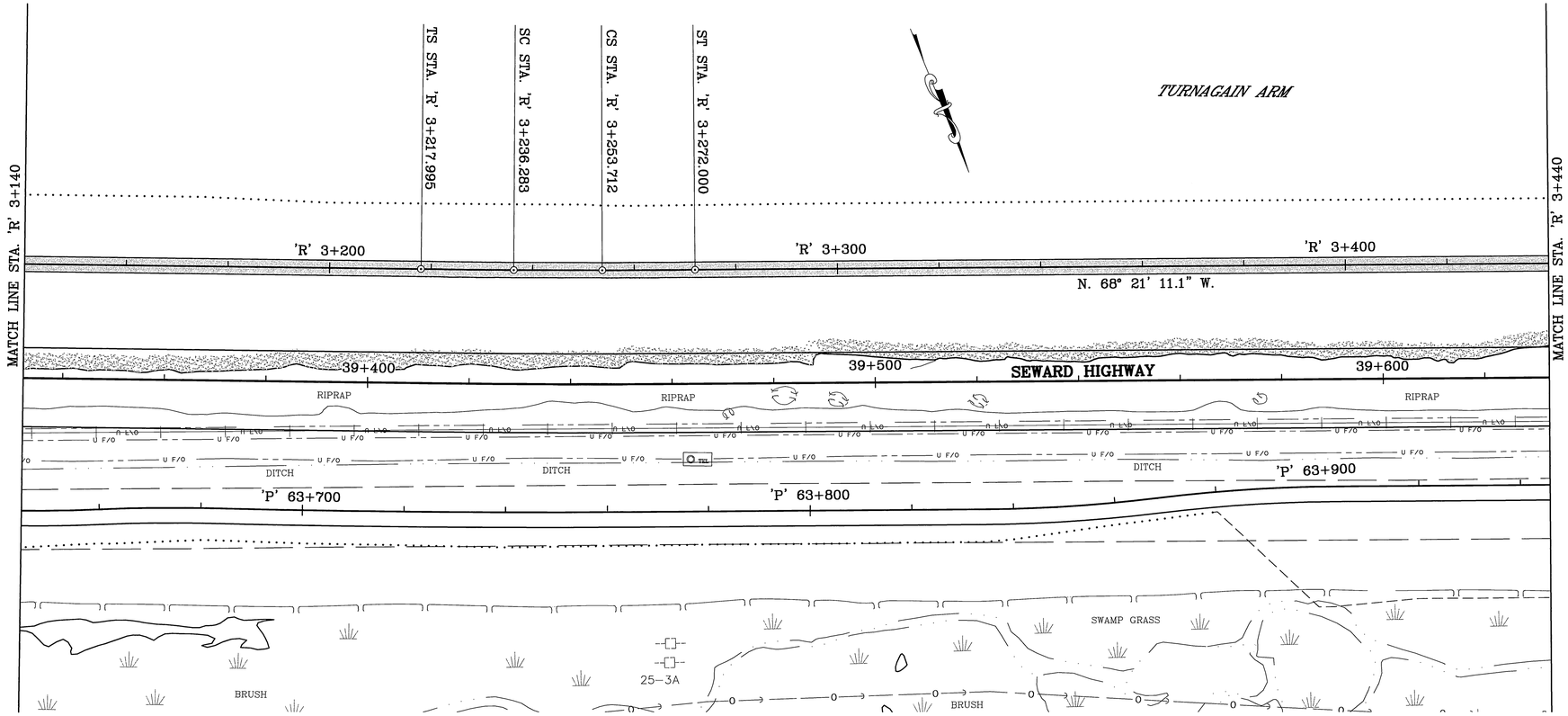
STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

BIRD FLATS AREA
RAILROAD
PLAN AND PROFILE

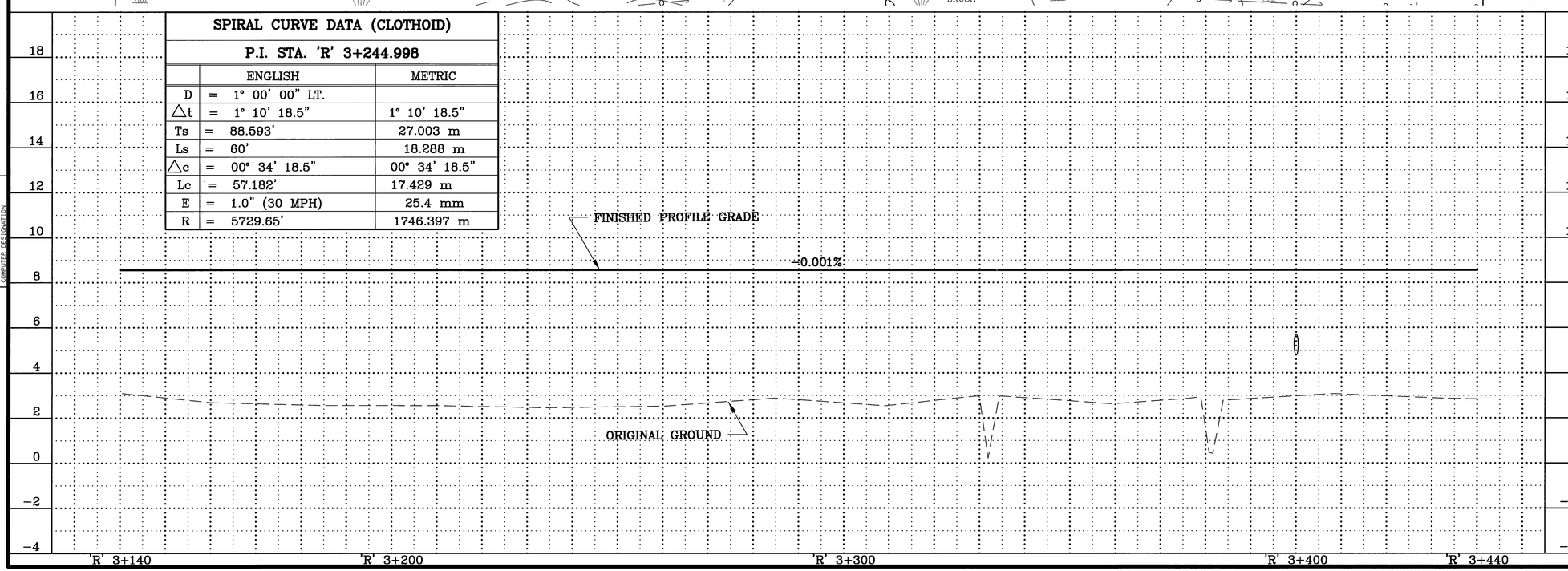
SPECIFICATIONS
SCALE: 1:1
COMPUTER RESTORATION
AUTOCAD-CAROLEE\SBSMPROJ\53577\77PP-
VIEW: HALF04.DR
DESIGNED BY
CHECKED BY KMH
DRAWN BY 6/12/02



SPIRAL CURVE DATA (CLOTHOID)

P.I. STA. 'R' 3+244.998

		ENGLISH	METRIC
D	=	1° 00' 00" LT.	
△t	=	1° 10' 18.5"	1° 10' 18.5"
Ts	=	88.593'	27.003 m
Ls	=	60'	18.288 m
△c	=	00° 34' 18.5"	00° 34' 18.5"
Lc	=	57.182'	17.429 m
E	=	1.0" (30 MPH)	25.4 mm
R	=	5729.65'	1746.397 m



SHEET NO.	TOTAL SHEETS
FR5	FR11
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

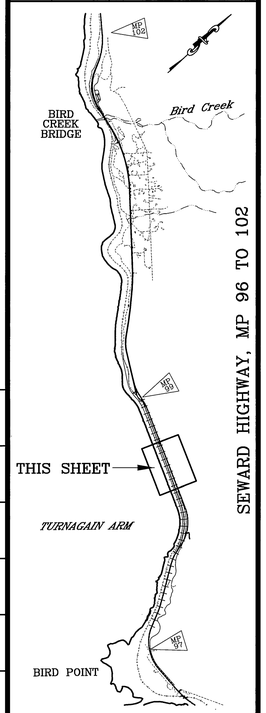
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION

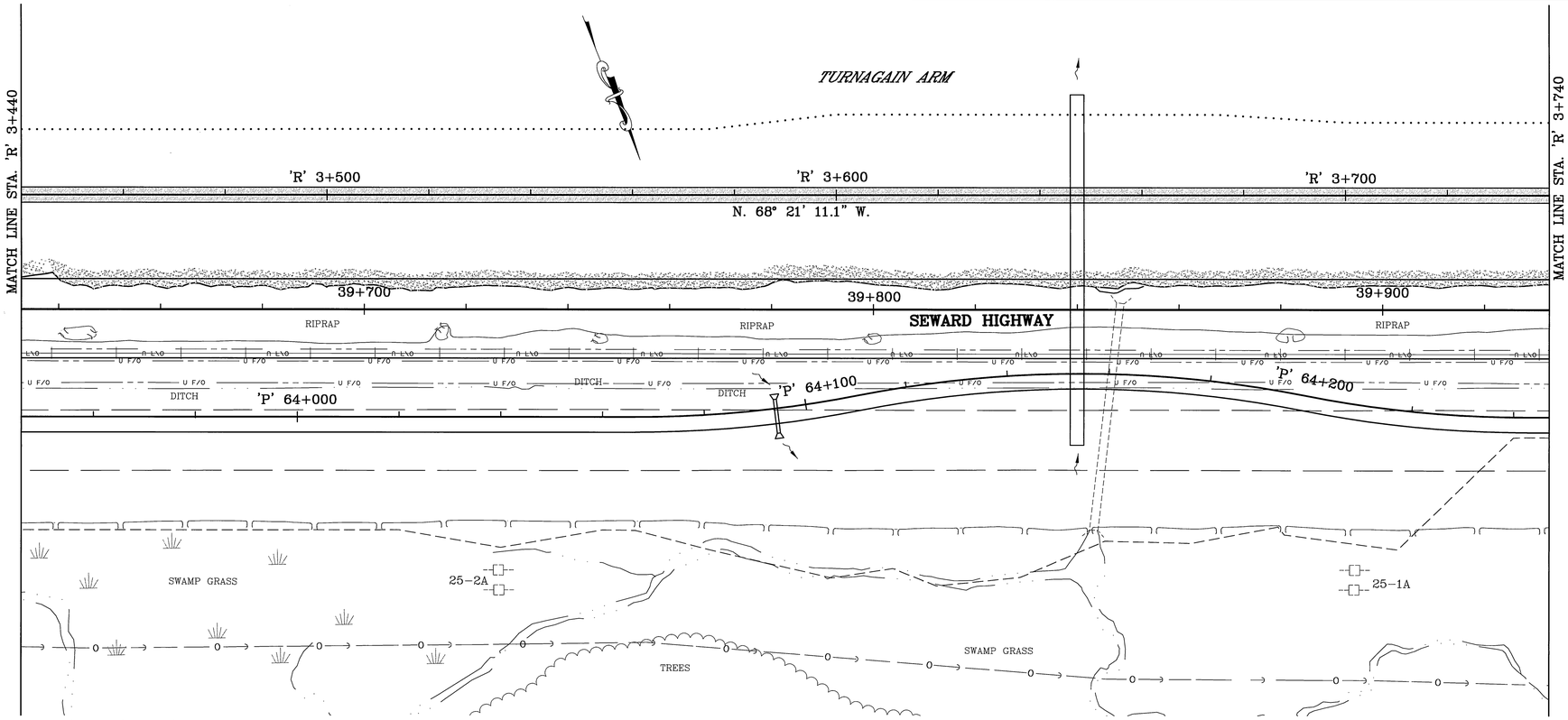


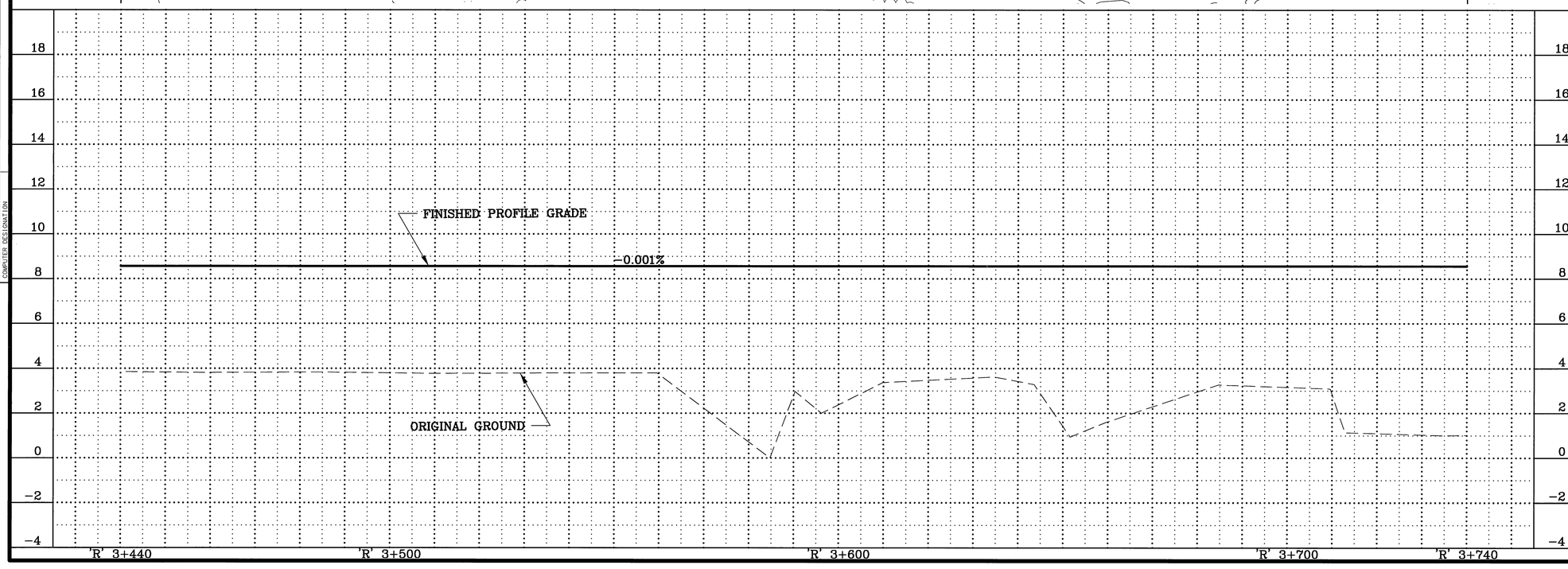
NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

STATE OF ALASKA
JUDY J. DOUGHERTY
CE 8823
7-19-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS
BIRD FLATS AREA
RAILROAD
PLAN AND PROFILE

DESIGNED BY
CHECKED BY
DRAFTED BY KMH 6/12/02
VIEW
NH-0A3-1.DGN
AUTOCAD-CAROLEE:\SDSKPROJ\53577\77PP-
SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION





SHEET NO.	TOTAL SHEETS
FR6	FR11
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

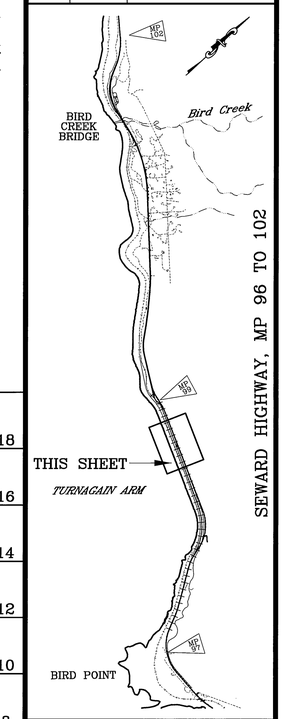
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

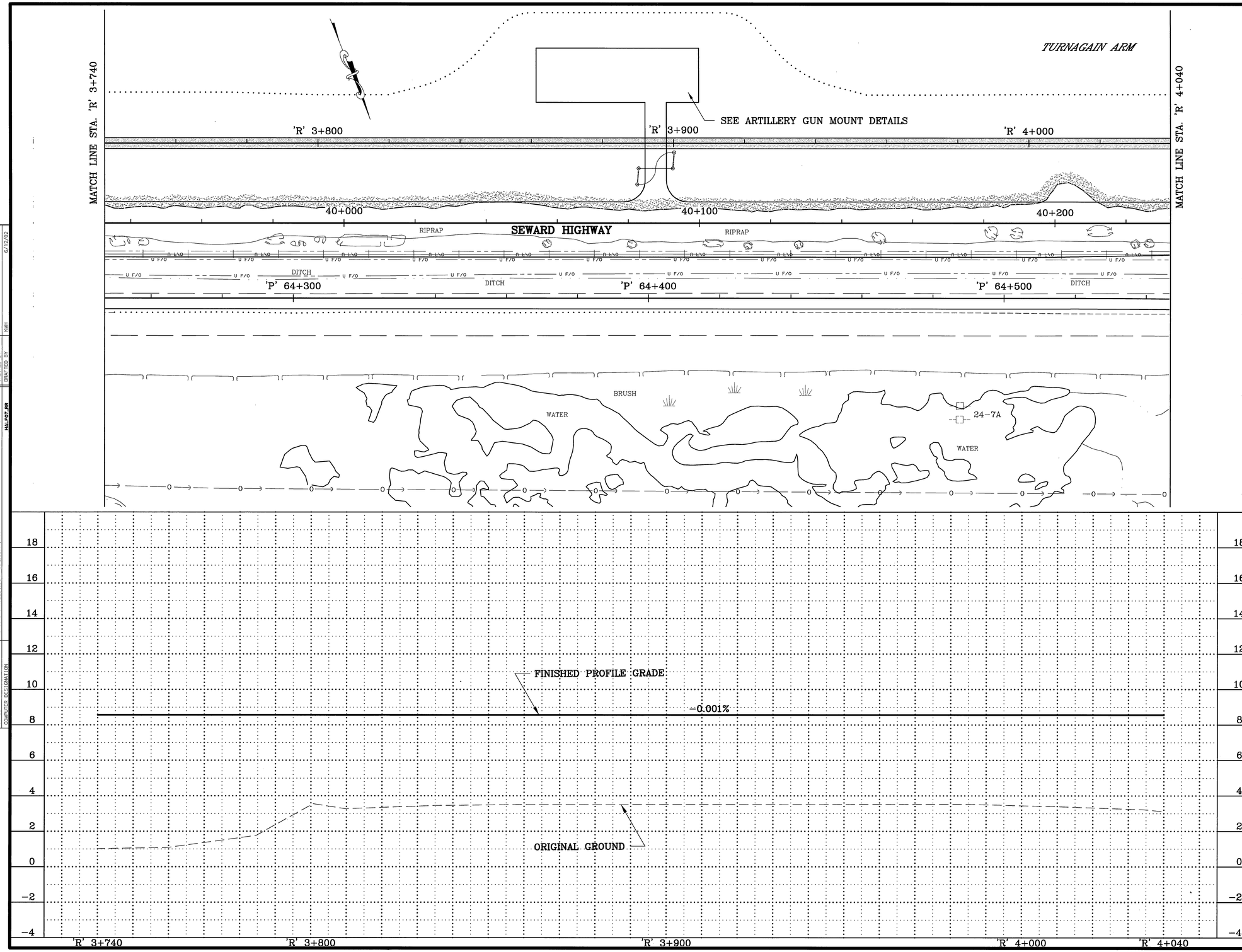
STATE OF ALASKA
JUDY J. BOUSHEY
CE 8823
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

BIRD FLATS AREA
RAILROAD
PLAN AND PROFILE

SPECIFICATIONS
SCALE 1" = 1 INCH
COMPUTER INTERLOCATION
AUTOCAD-CAROLEE\SDSKPROJ\S357\7TPP-
VIEW
MAIN-DOJ.MR
DESIGNED BY
CHECKED BY
DRAWN BY
KMH
6/12/02



SHEET NO.	TOTAL SHEETS
FR7	FR11
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

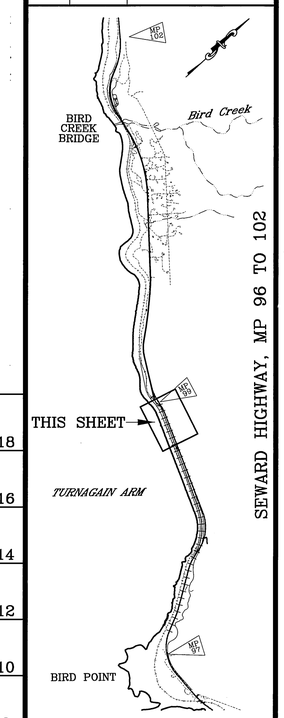
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

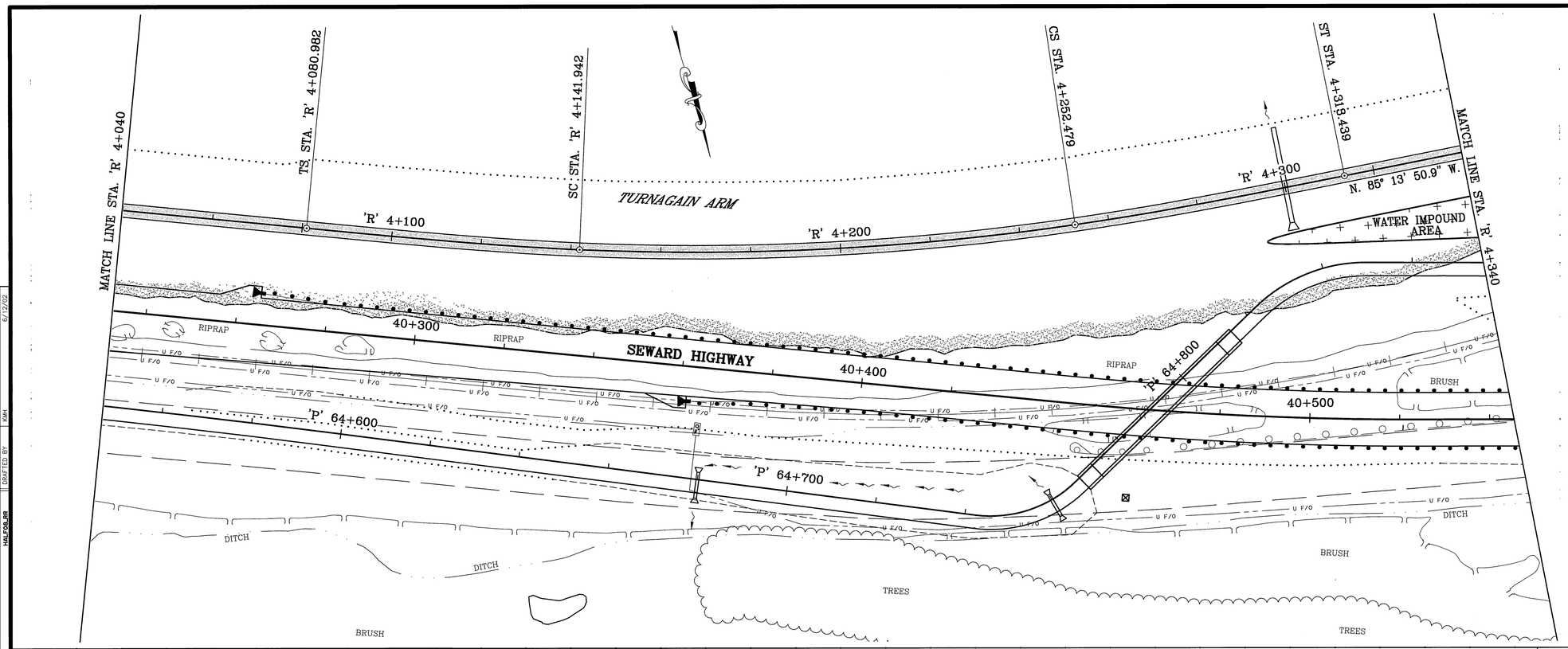
STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
6.17.02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

BIRD FLATS AREA
RAILROAD
PLAN AND PROFILE

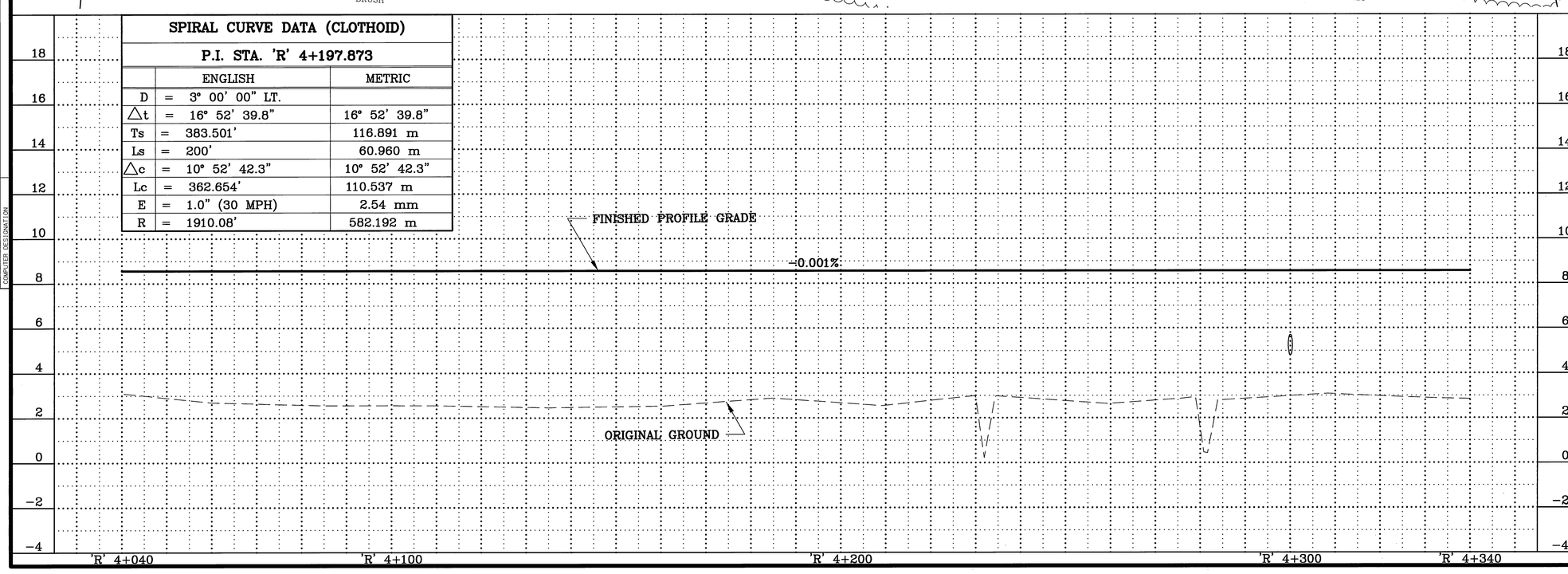
SPECIFICATIONS
SCALE 1:1
COMPUTER DESIGNATION
AUTOCAD-CAROLE:\SISKPROJ\53577\TPP-
DESIGNED BY
CHECKED BY
DRAWN BY KAM
6/12/02
V1 EBW
NH-0A3-1(28)



SPIRAL CURVE DATA (CLOTHOID)

P.I. STA. 'R' 4+197.873

		ENGLISH	METRIC
D	=	3° 00' 00" LT.	
△t	=	16° 52' 39.8"	16° 52' 39.8"
Ts	=	383.501'	116.891 m
Ls	=	200'	60.960 m
△c	=	10° 52' 42.3"	10° 52' 42.3"
Lc	=	362.654'	110.537 m
E	=	1.0" (30 MPH)	2.54 mm
R	=	1910.08'	582.192 m



SHEET NO.	TOTAL SHEETS
FR8	FR11
STATE	YEAR
ALASKA	2002

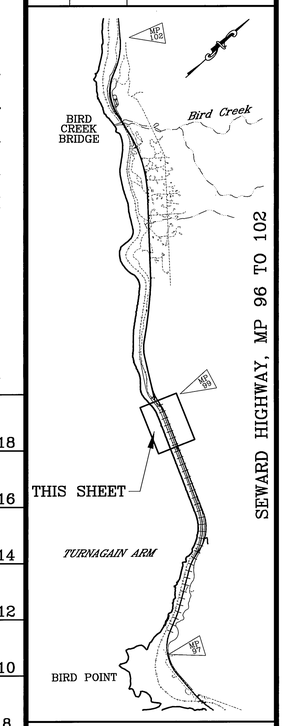
PROJECT DESIGNATION
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



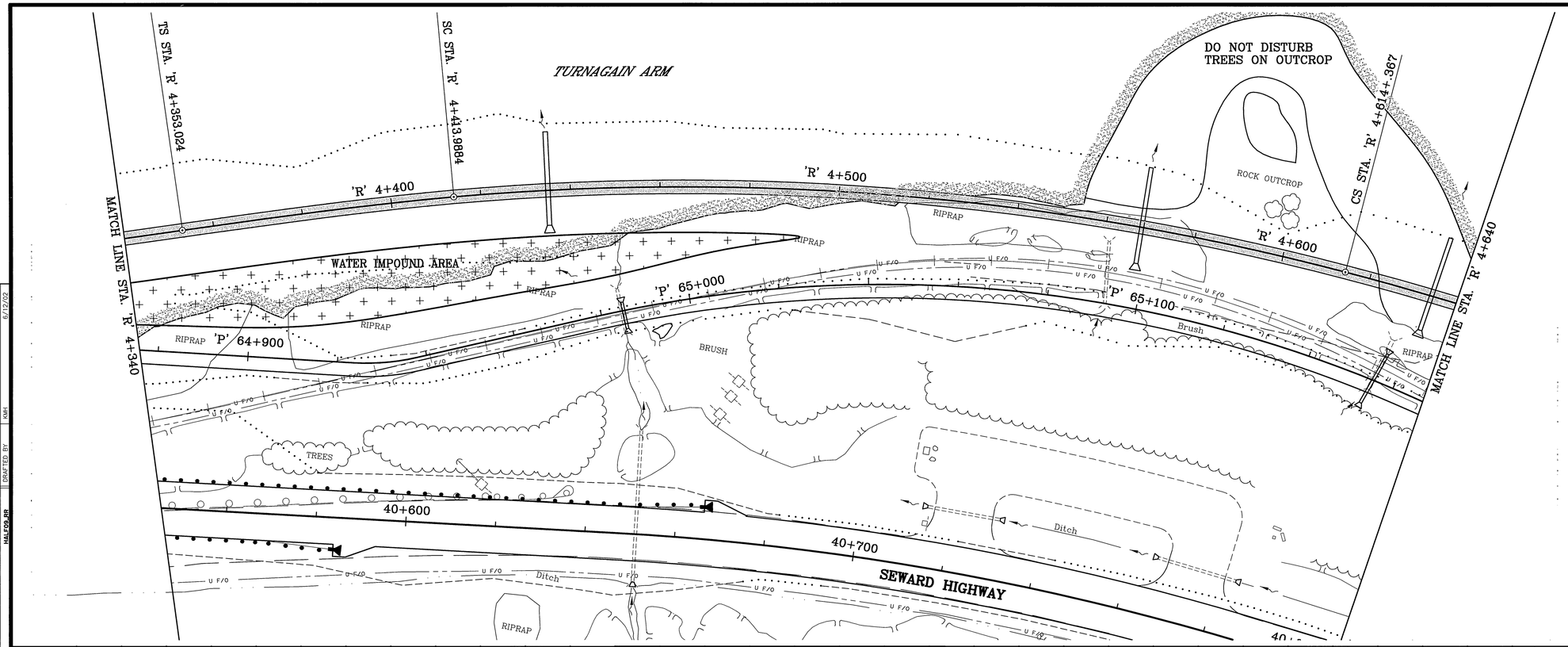
NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
6-17-02
REGISTERED PROFESSIONAL ENGINEER

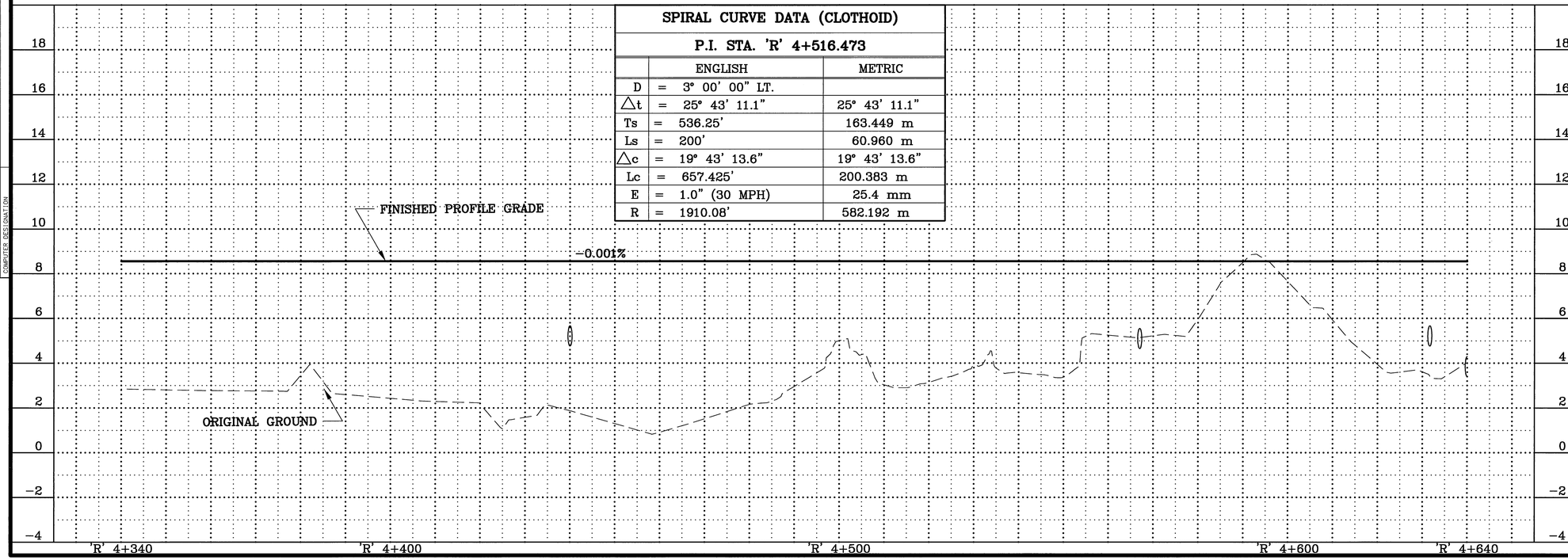
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND RECREATIONAL IMPROVEMENTS

BIRD FLATS AREA
RAILROAD
PLAN AND PROFILE

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-CARLEE:\SDSKPROJ\53577\7PH-
DESIGNED BY
CHECKED BY
DRAWN BY KMH
6/12/02
VIEW
NH-0A3-1(28)



SPIRAL CURVE DATA (CLOTHOID)		
P.I. STA. 'R' 4+516.473		
	ENGLISH	METRIC
D	= 3° 00' 00" LT.	
△t	= 25° 43' 11.1"	25° 43' 11.1"
Ts	= 536.25'	163.449 m
Ls	= 200'	60.960 m
△c	= 19° 43' 13.6"	19° 43' 13.6"
Lc	= 657.425'	200.383 m
E	= 1.0" (30 MPH)	25.4 mm
R	= 1910.08'	582.192 m



SHEET NO.	TOTAL SHEETS
FR9	FR11
STATE	YEAR
ALASKA	2002

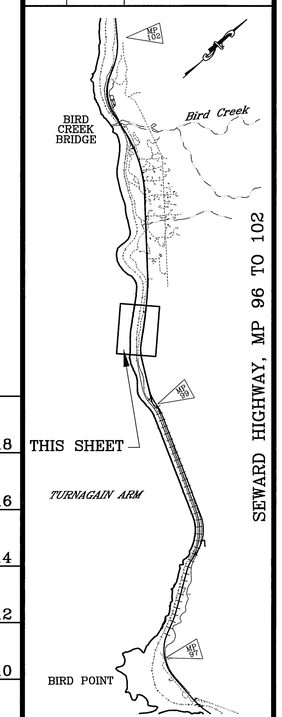
PROJECT DESIGNATION
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION

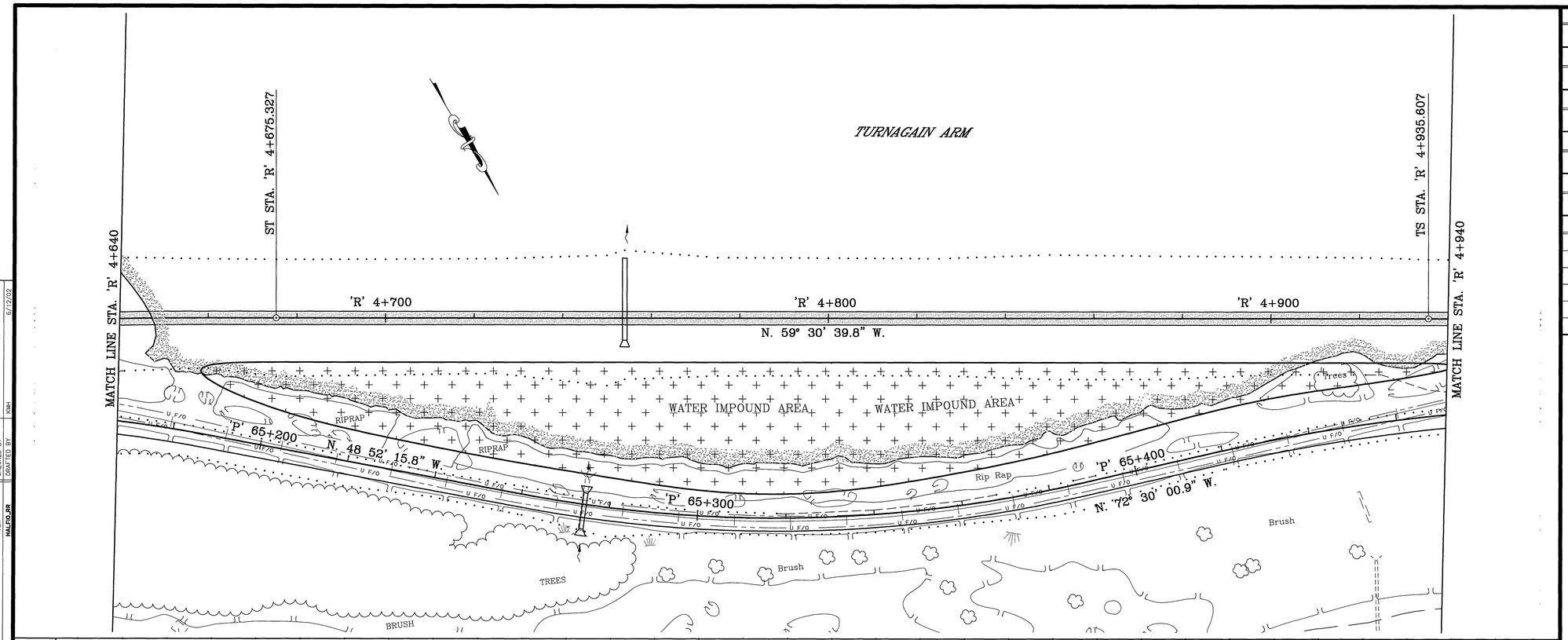


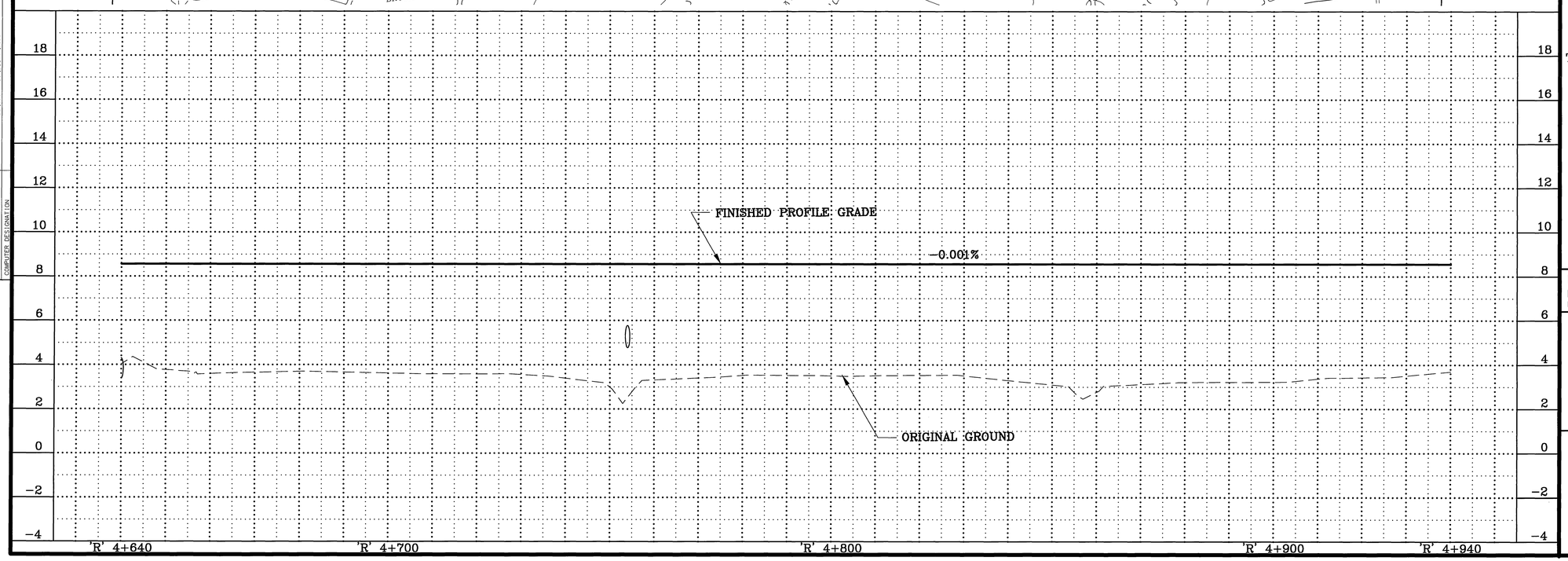
NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

STATE OF ALASKA
JUDY J. DOUGHERTY
CE 8823
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS
BIRD FLATS AREA
RAILROAD
PLAN AND PROFILE

DESIGNED BY
CHECKED BY
DRAFTED BY KMH 6/12/02
VIEW: HALF09.BR
AUTOCAD-CAROLEE\SDSKPRO\535371\7PP-
SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION





SHEET NO.	TOTAL SHEETS
FR10	FR11
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

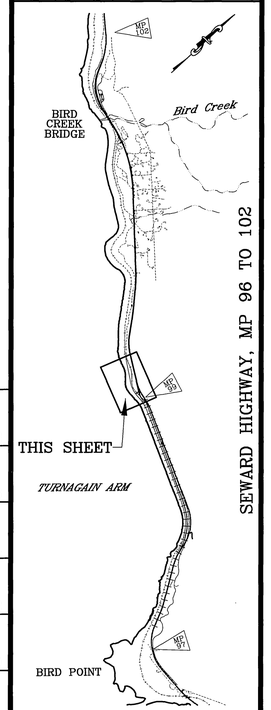
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



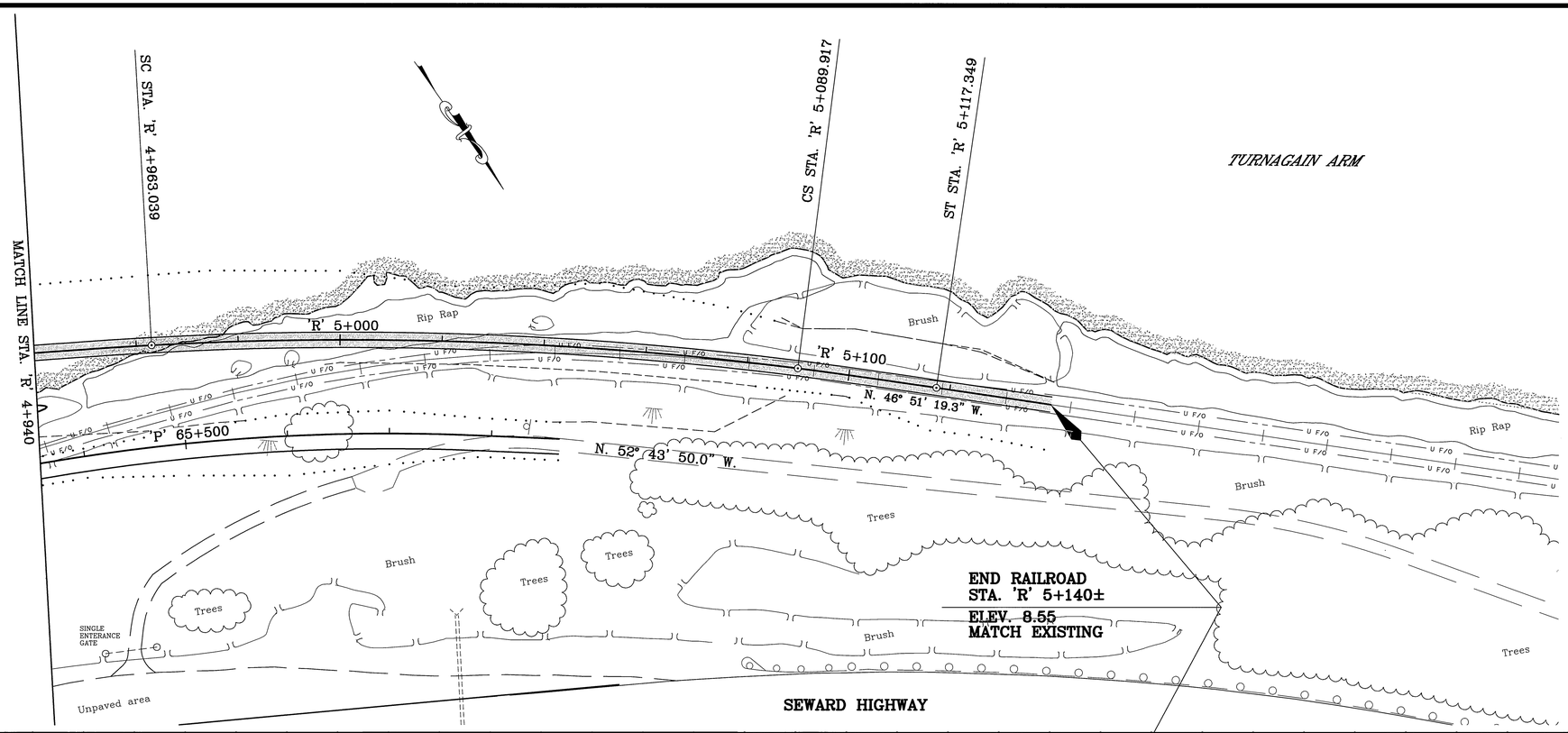
NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

STATE OF ALASKA 49TH
JUDY J. DOUGHERTY
CE 8823
6-17-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND RECREATIONAL IMPROVEMENTS

BIRD FLATS AREA
RAILROAD
PLAN AND PROFILE

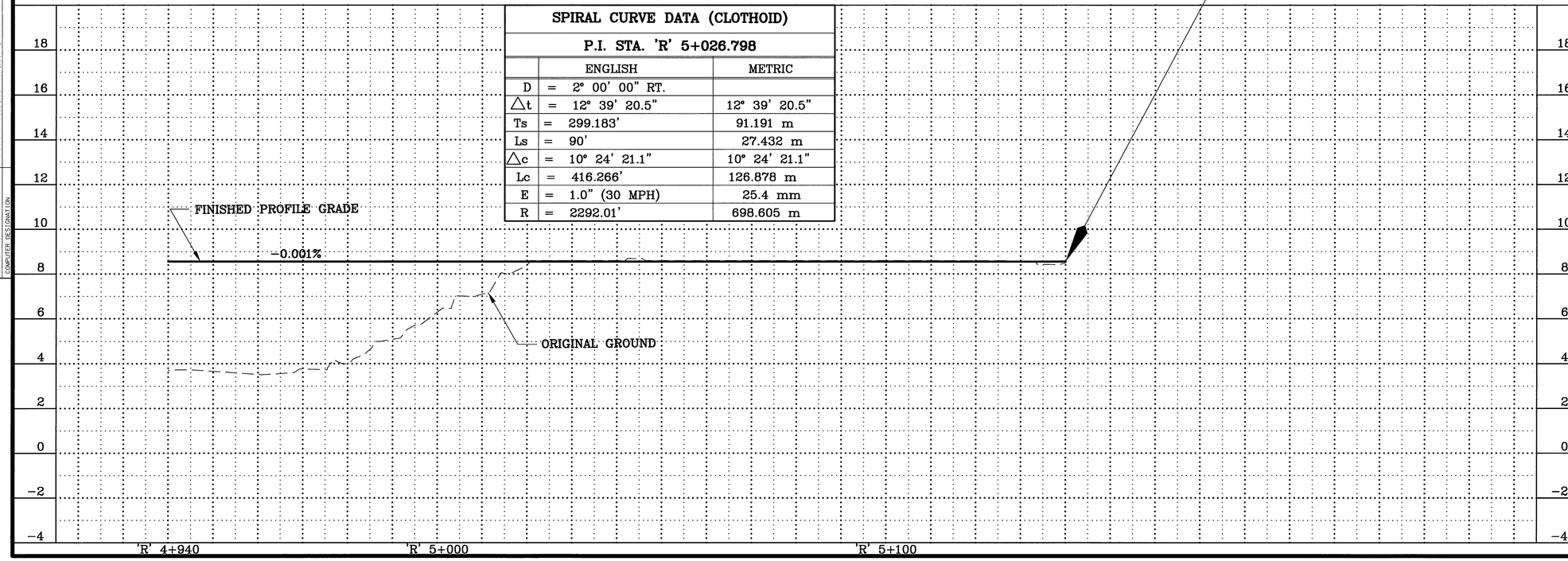
SPECIFICATIONS
SCALE: 1:1
COMPUTER DESIGNATION
AUTOCAD-CAROLEX\SDSKPROJ\S3577\799-
VIEW:
MAJPLAN.DWG
DESIGNED BY
CHECKED BY
CONFIRED BY
KSM
6/12/02



SPIRAL CURVE DATA (CLOTHOID)

P.I. STA. 'R' 5+026.798

		ENGLISH	METRIC
D	=	2° 00' 00" RT.	
△t	=	12° 39' 20.5"	12° 39' 20.5"
Ts	=	299.183'	91.191 m
Ls	=	90'	27.432 m
△c	=	10° 24' 21.1"	10° 24' 21.1"
Lc	=	416.266'	126.878 m
E	=	1.0" (30 MPH)	25.4 mm
R	=	2292.01'	698.605 m



SHEET NO.	TOTAL SHEETS
FR11	FR11
STATE	YEAR
ALASKA	2002

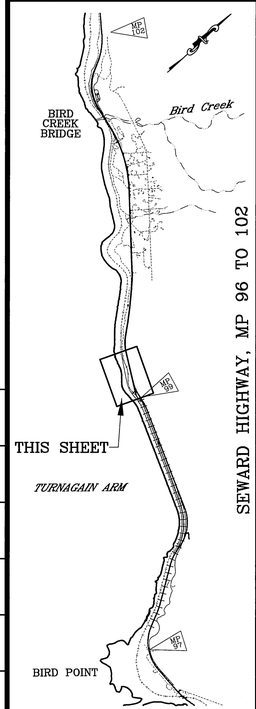
PROJECT DESIGNATION
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION

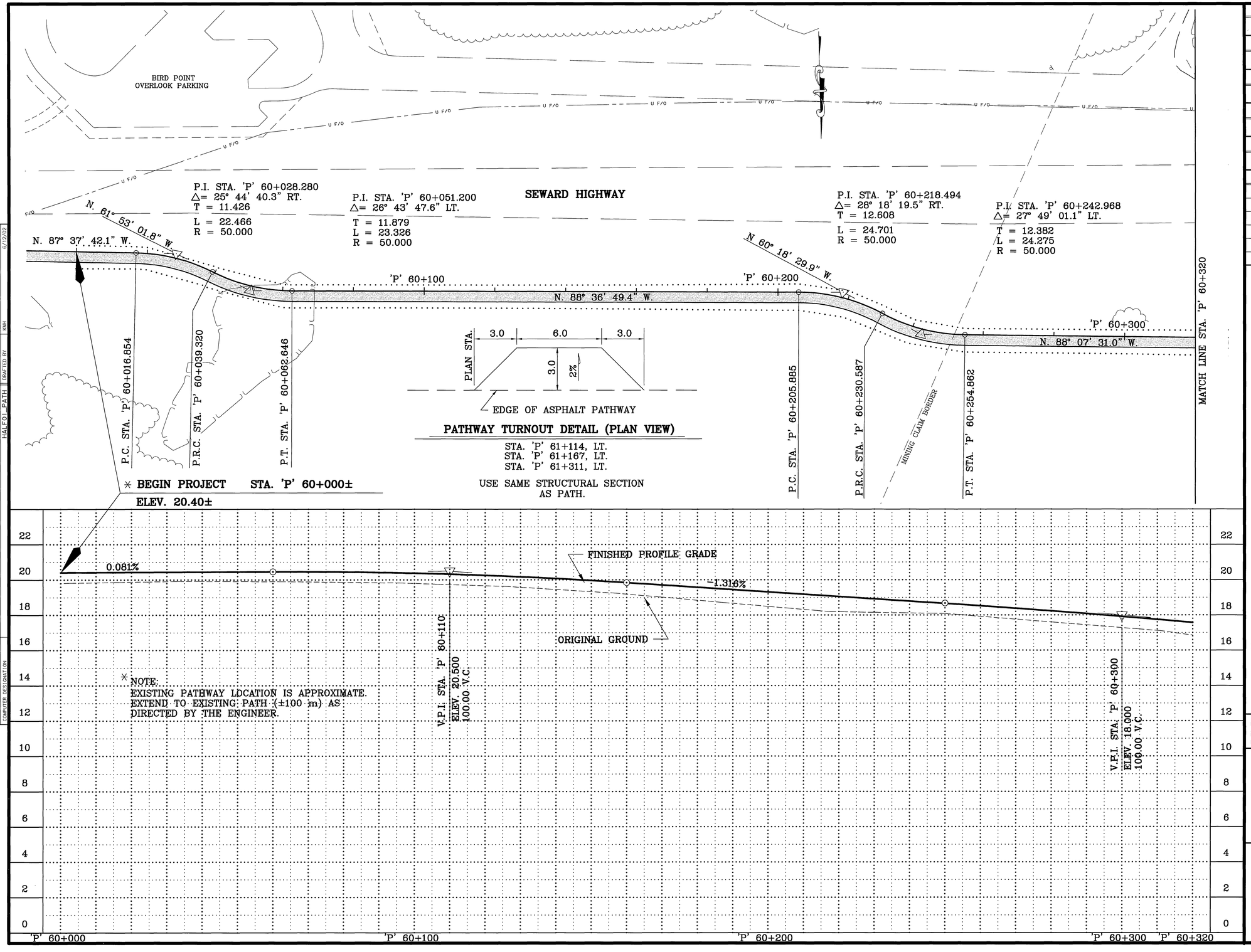


NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

STATE OF ALASKA
JUDY J. DOUGHERTY
CE 8823
6-4-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND RECREATIONAL IMPROVEMENTS
BIRD FLATS AREA
RAILROAD
PLAN AND PROFILE

DESIGNED BY
CHECKED BY
DRAWN BY KMH 6/12/02
VITEM
NH-0A3-JN
SPECIFICATIONS
SCALE: 1:1
COMPUTER ASSIGNATION
AUTOCAD-CAROLLE\SDSKPROJ\53577\77PP-



SHEET NO.	TOTAL SHEETS
FP1	FP18
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

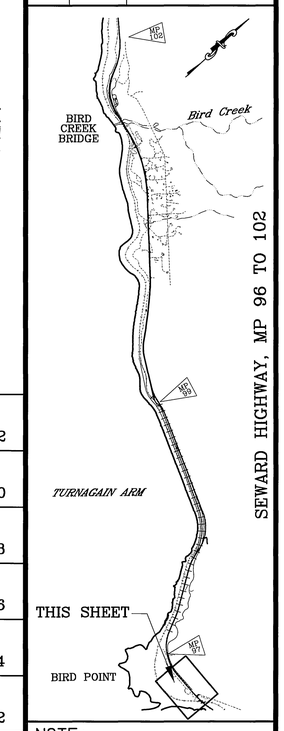
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS
UNLESS OTHERWISE NOTED.

STATE OF ALASKA
JUDY J. DOUGHERTY
CE 8823
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS
BIRD FLATS AREA
PATHWAY
PLAN AND PROFILE

SPECIFICATIONS | AUTOCAD-CAROLLE: SDSKPROJ\15957\77PP
SCALE 1=1 | 110Dw HALF01_PATH
COMPUTER RESOLUTION | DESIGNED BY | CHECKED BY | DRAWN BY | DRAFTED BY | 6/12/02

SHEET NO.	TOTAL SHEETS
FP2	FP18
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

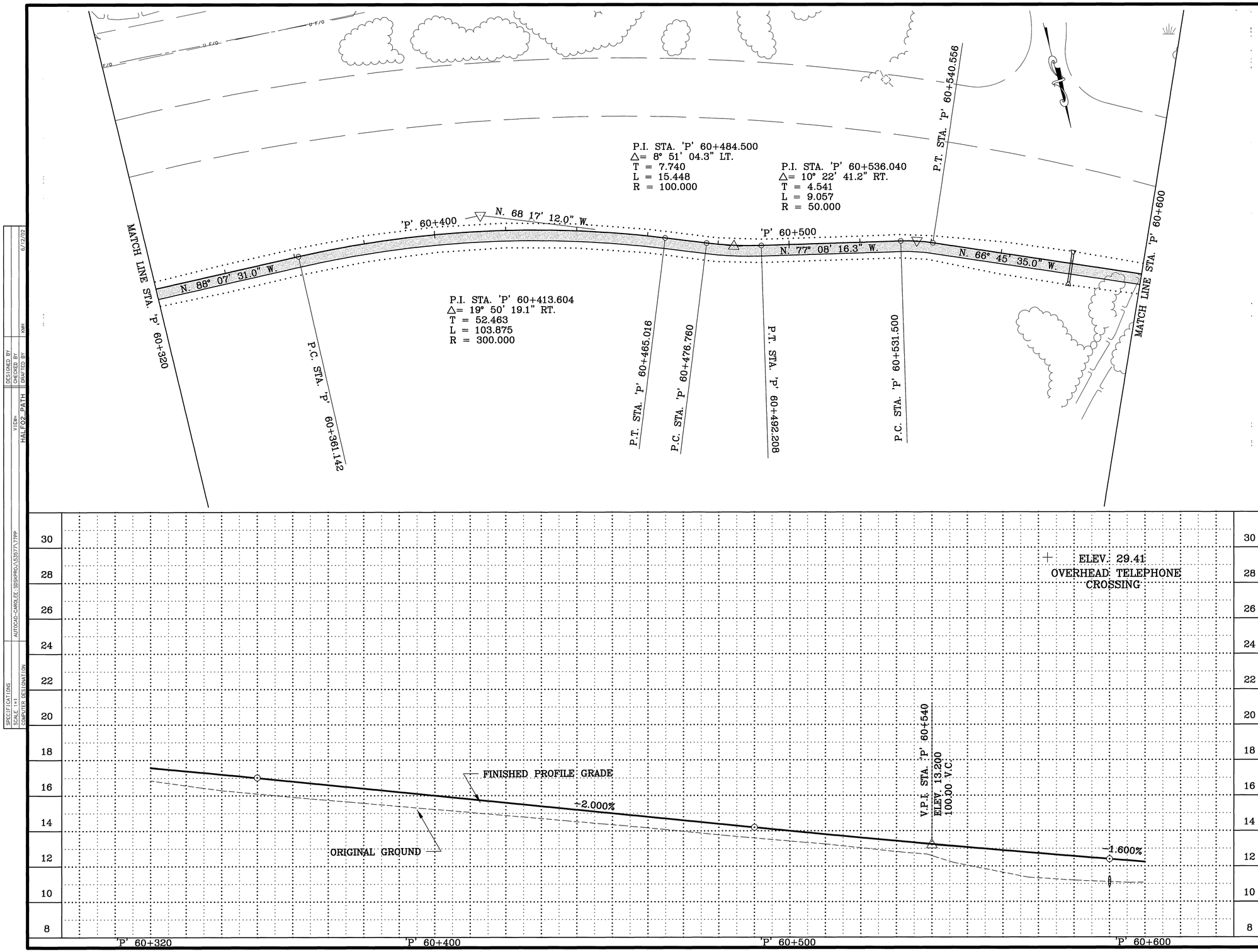
NH-0A3-1(28)

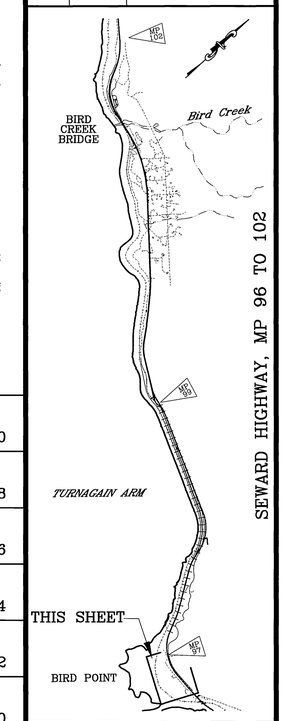
ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION





NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

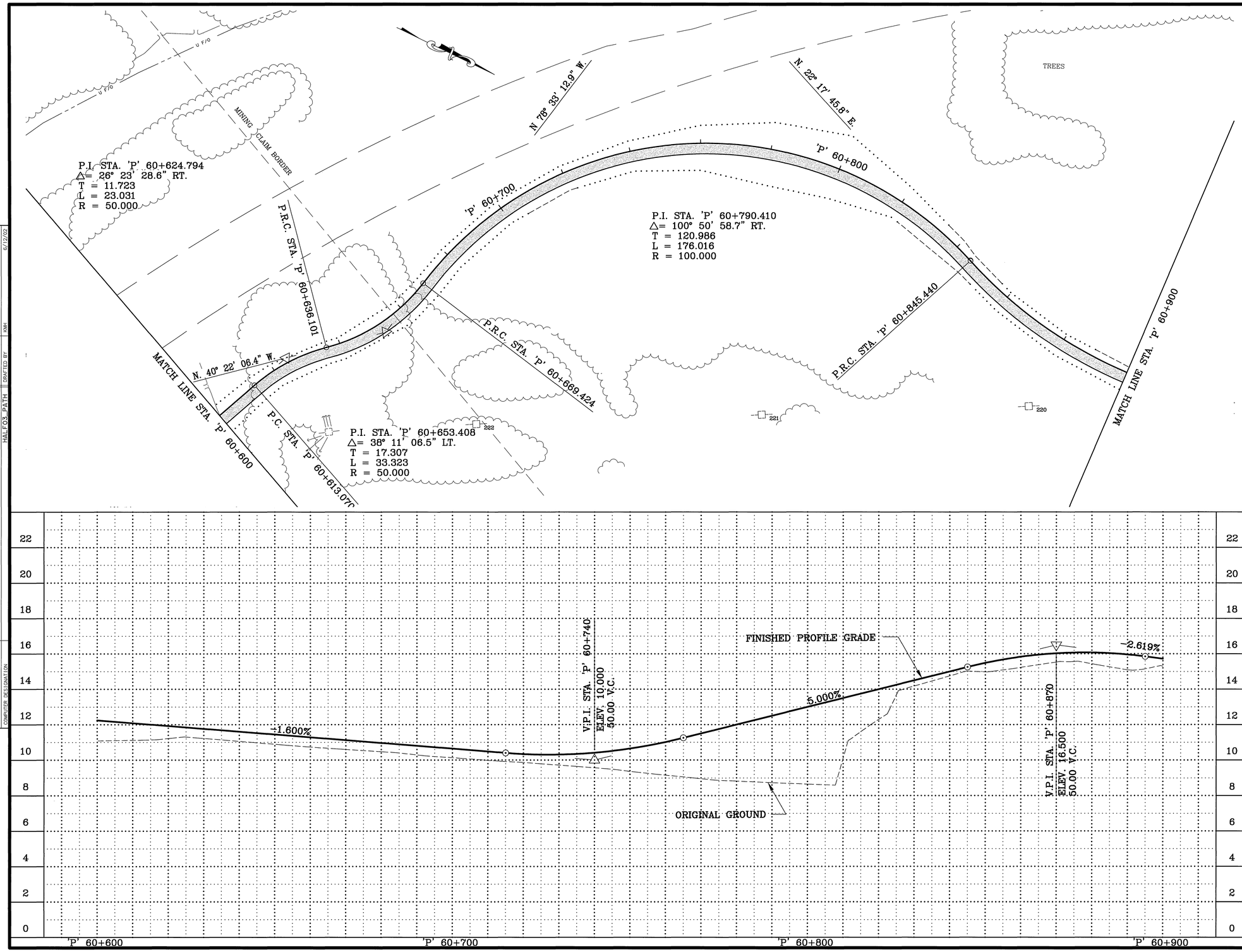
STATE OF ALASKA 49TH JUDY J. DOUGHERTY CE 8823 6.14.02 REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND RECREATIONAL IMPROVEMENTS

BIRD FLATS AREA PATHWAY
PLAN AND PROFILE

SPECIFICATIONS | SCALE 1"=1' | COMPUTER DESIGNATION | AUTOCAD-CARLEE: SDSKPROJ\35977\77PP | DESIGNED BY | CHECKED BY | DRAWN BY | KMW | 6/12/02 | HALF02_PATH



SHEET NO.	TOTAL SHEETS
FP3	FP18
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

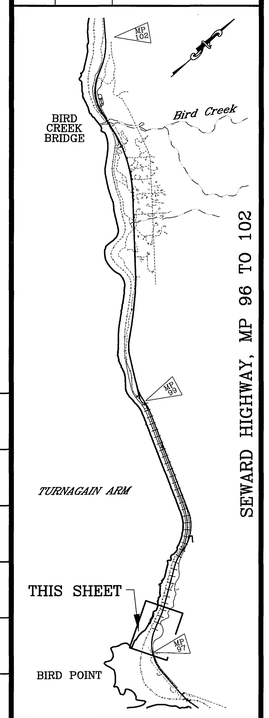
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

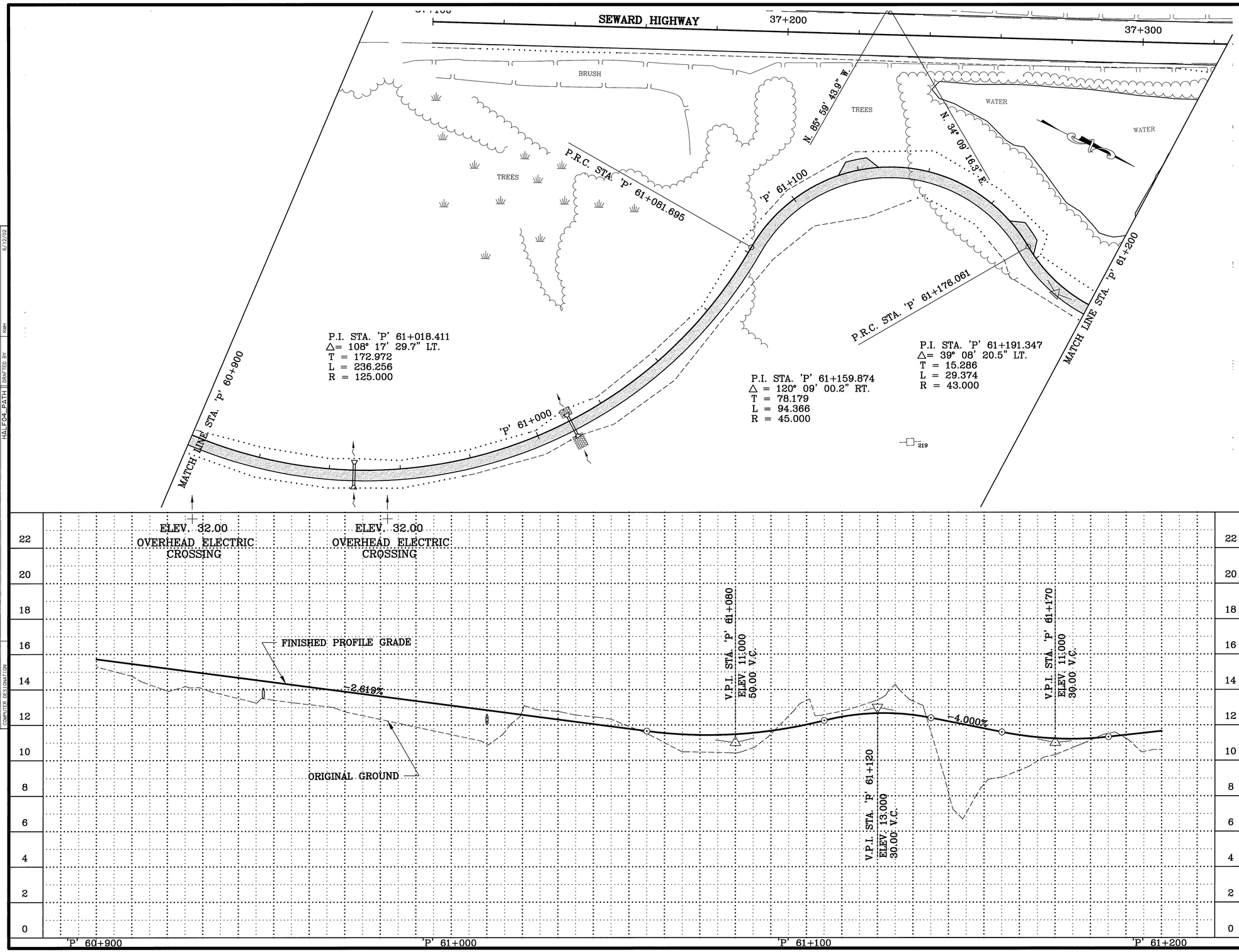
STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

BIRD FLATS AREA
PATHWAY
PLAN AND PROFILE

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-CAROLEE:SDSKPROJ\35577\77PP
VIEW= HALF03_PATH
DESIGNED BY
CHECKED BY
DRAFTED BY KAM
6/12/02



SHEET NO.	TOTAL SHEETS
FP4	FP18
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

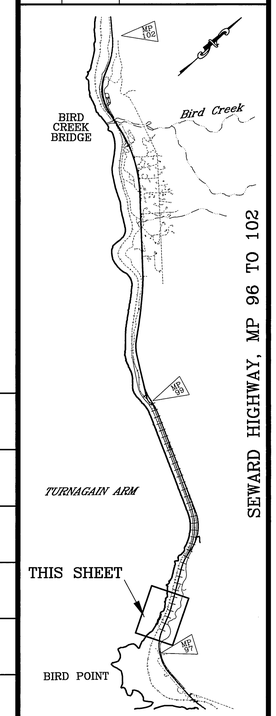
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



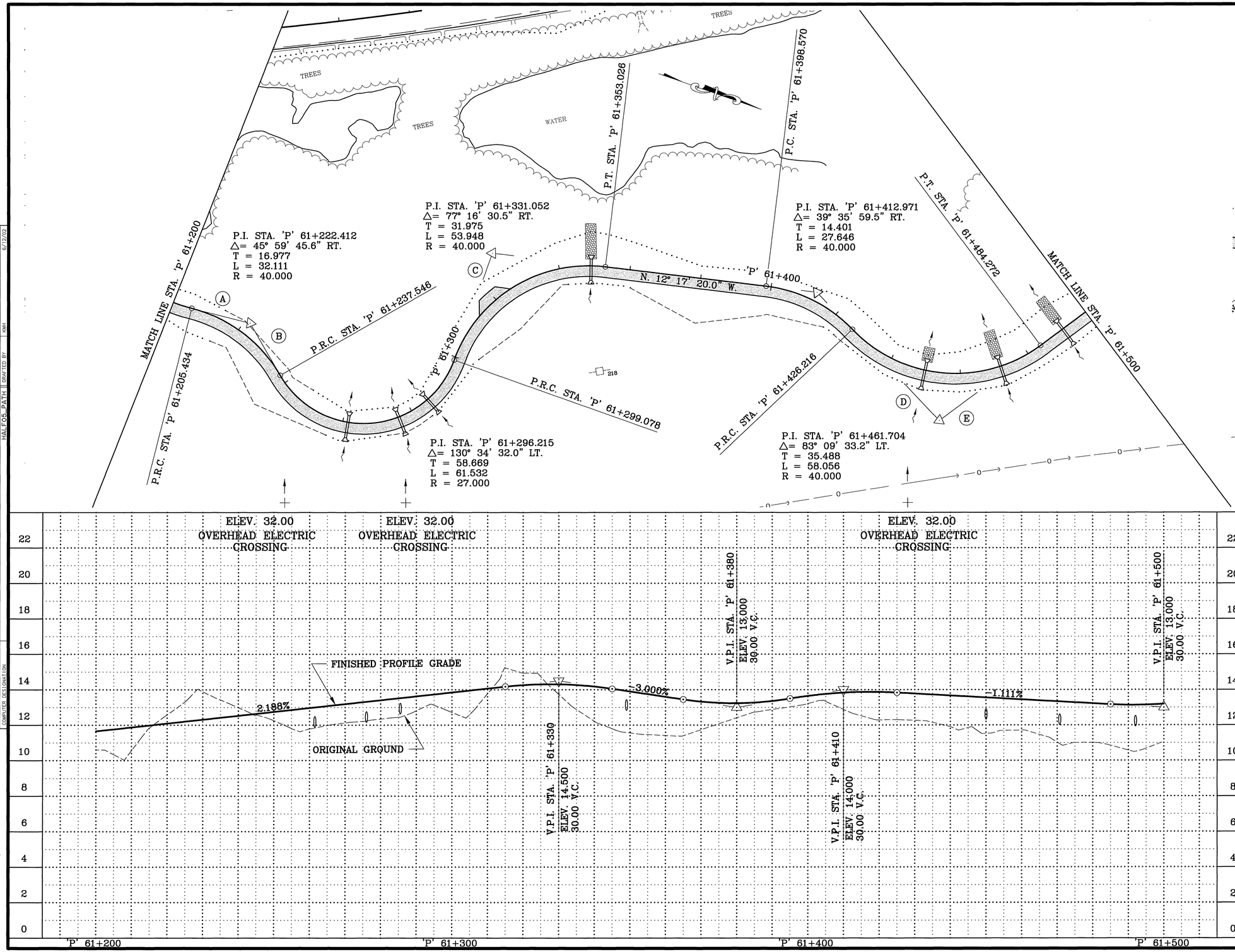
NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
RECEIVED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS
BIRD FLATS AREA
PATHWAY
PLAN AND PROFILE

SPECIFICATIONS
SCALE 1=1
COMPUTER RESOLUTION
AUTOCAD-CAROLEE: SDSKPROJ\53577\77PP
VIEW
HALF04_PATH
DESIGNED BY
CHECKED BY
DRAWN BY KSM
6/12/02



SHEET NO.	TOTAL SHEETS
FP5	FP18
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

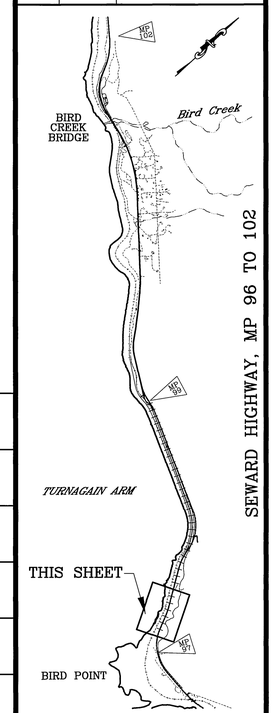
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



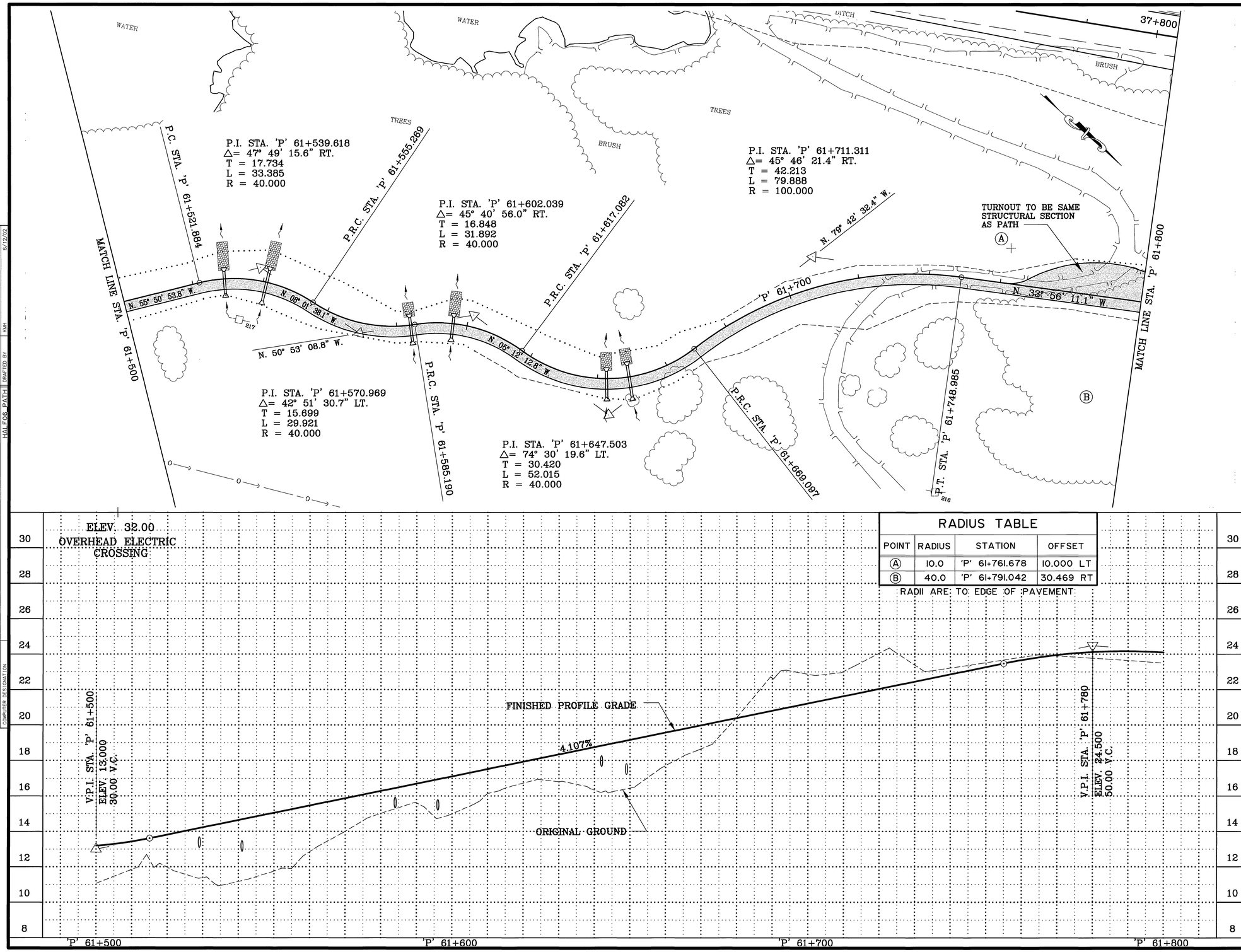
NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS
BIRD FLATS AREA
PATHWAY
PLAN AND PROFILE

SPECIFICATIONS
SCALE 1=1
COMPUTER INTERPOLATION
AUTOCAD-CAROLE: SESKPROJ\53577\77PP
VIEW
HALFOS_PATH
DESIGNED BY
CHECKED BY
DRAWN BY KMH
6/12/02



RADIUS TABLE			
POINT	RADIUS	STATION	OFFSET
A	10.0	'P' 61+761.678	10.000 LT
B	40.0	'P' 61+791.042	30.469 RT

RADII ARE TO EDGE OF PAVEMENT

SHEET NO.	TOTAL SHEETS
FP6	FP18
STATE	YEAR
ALASKA	2002

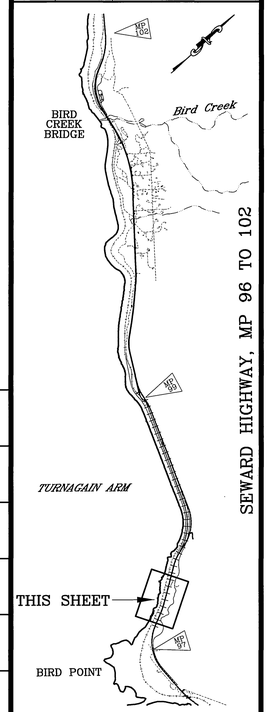
PROJECT DESIGNATION
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



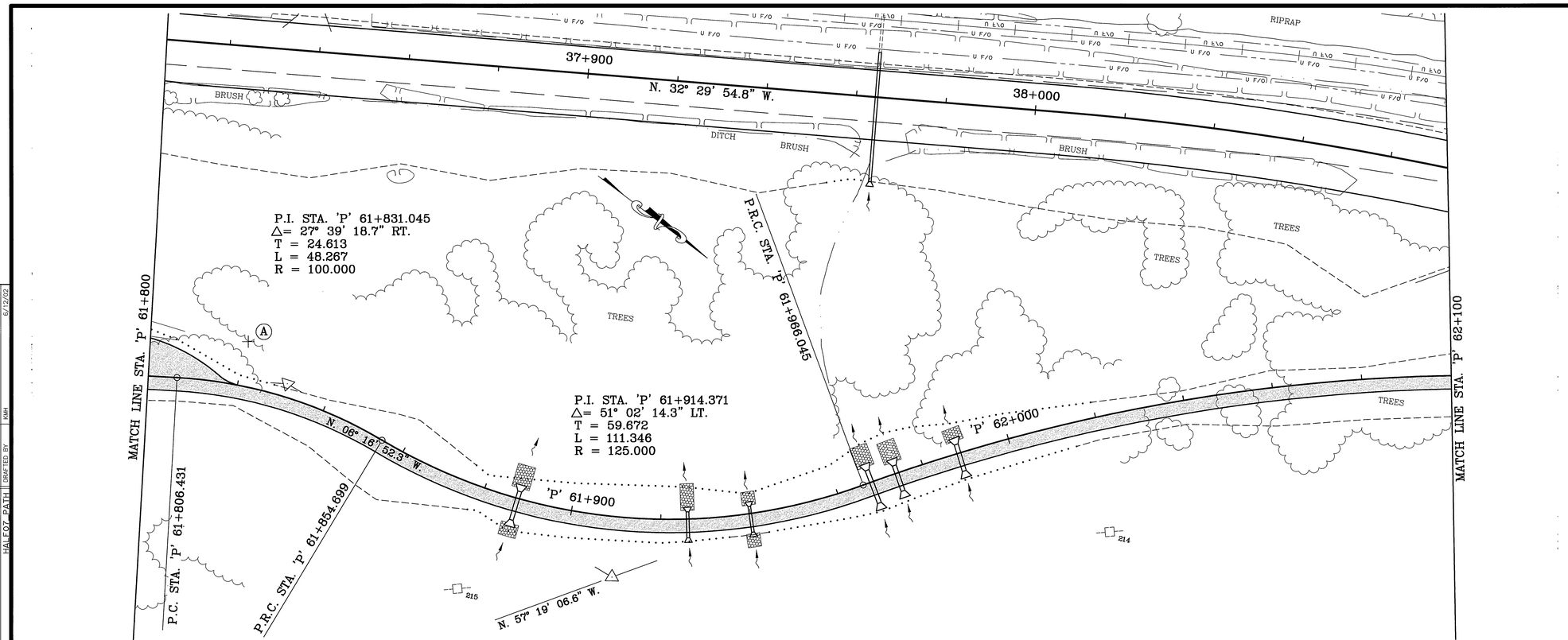
NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

STATE OF ALASKA
49TH
JUDY L. DOUGHERTY
CE 8823
6-18-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND RECREATIONAL IMPROVEMENTS
BIRD FLATS AREA
PATHWAY
PLAN AND PROFILE

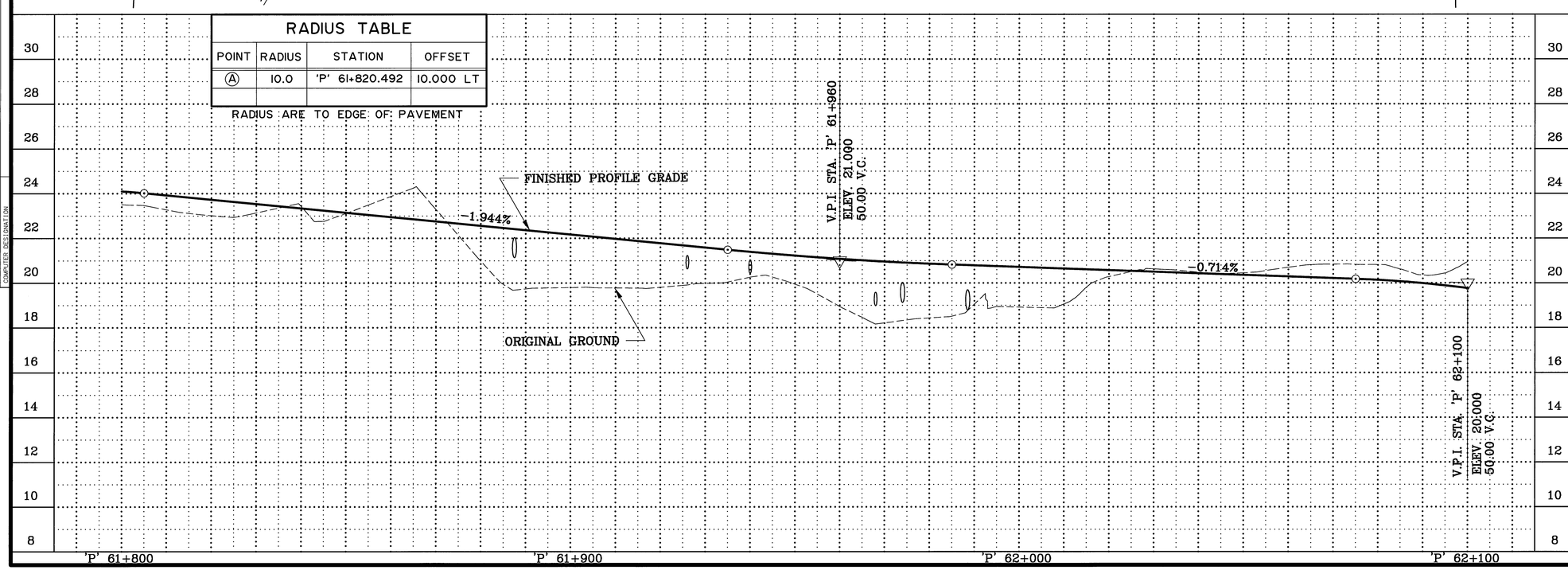
SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION:
AUTOCAD-CAROLEE: SDSKPROJ\35577\77PP
VIEW: HALF06-PATH
DESIGNED BY
CHECKED BY
DRAWN BY
6/12/02
KSM



RADIUS TABLE

POINT	RADIUS	STATION	OFFSET
Ⓐ	10.0	'P' 61+820.492	10.000 LT

RADIUS ARE TO EDGE OF PAVEMENT



SHEET NO.	TOTAL SHEETS
FP7	FP18
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

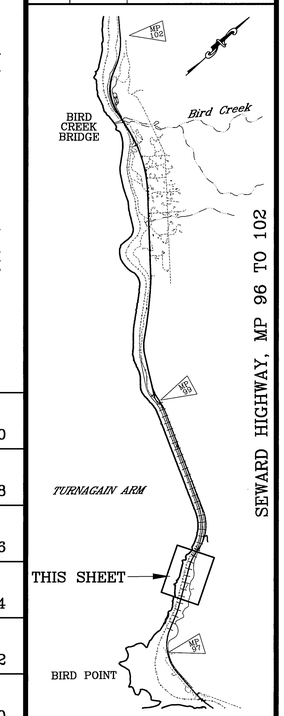
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

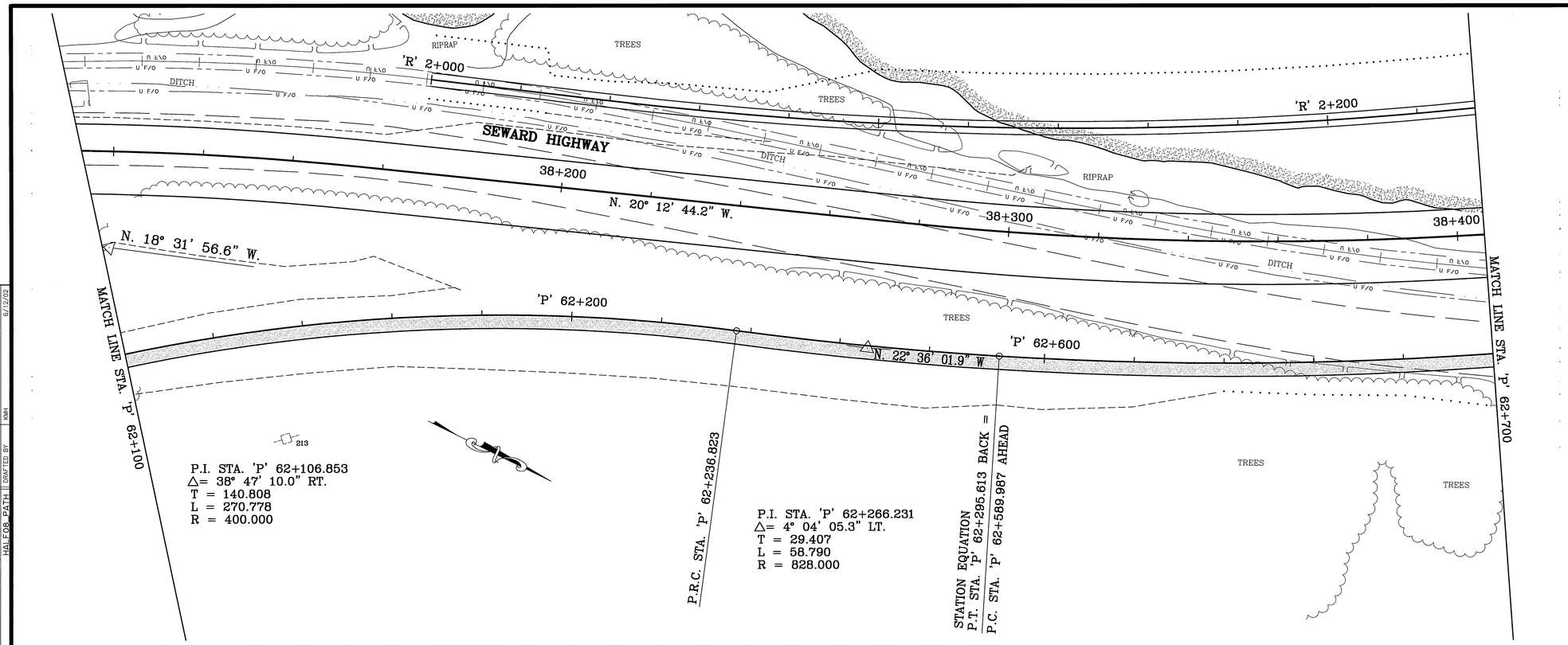
STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 5823
6-19-02
REGISTERED PROFESSIONAL ENGINEER

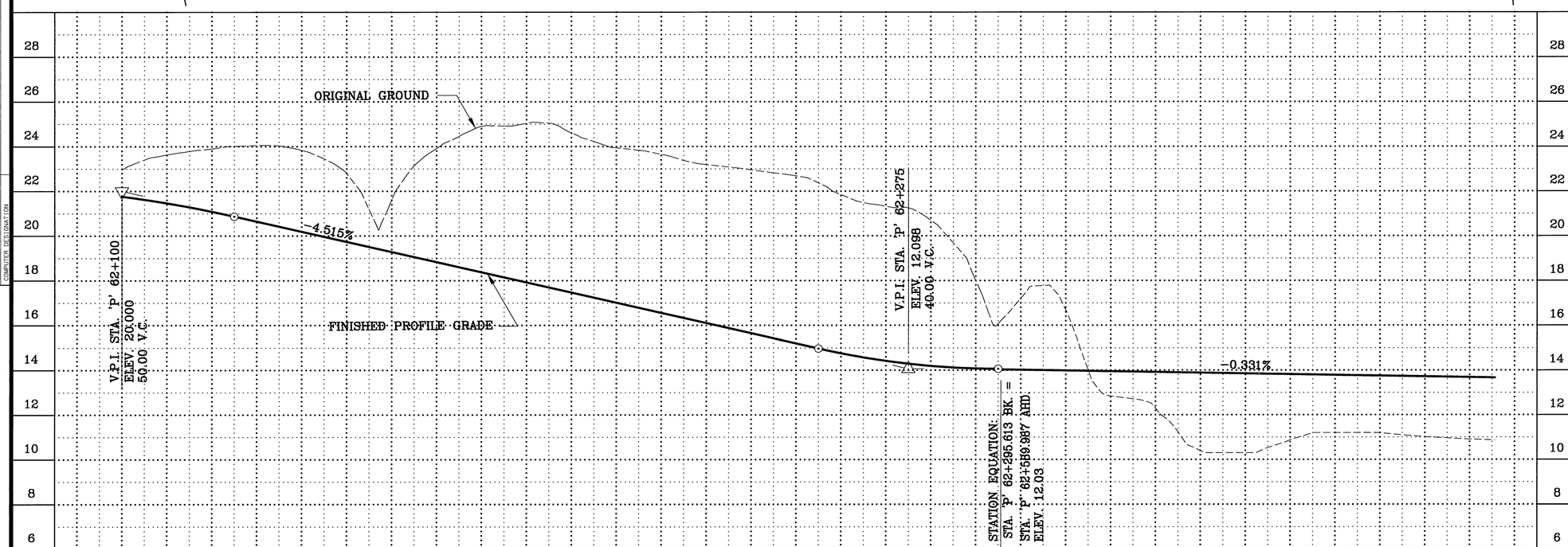
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

BIRD FLATS AREA
PATHWAY
PLAN AND PROFILE

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION:
AUTOCAD-CARDLEE: S93KPROJ\S357\77PP
VIEW
HAL-07_PATH
DESIGNED BY
CHECKED BY
DRAWN BY
KBM
6/12/02





SHEET NO.	TOTAL SHEETS
FP8	FP18
STATE	YEAR
ALASKA	2002

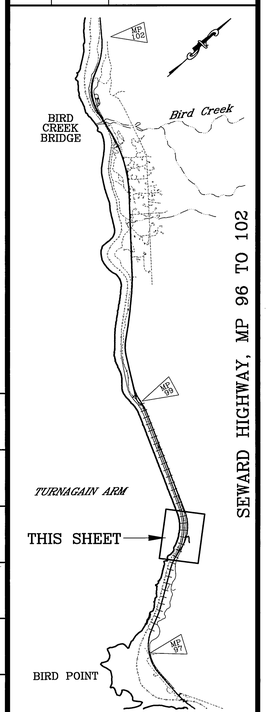
PROJECT DESIGNATION
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



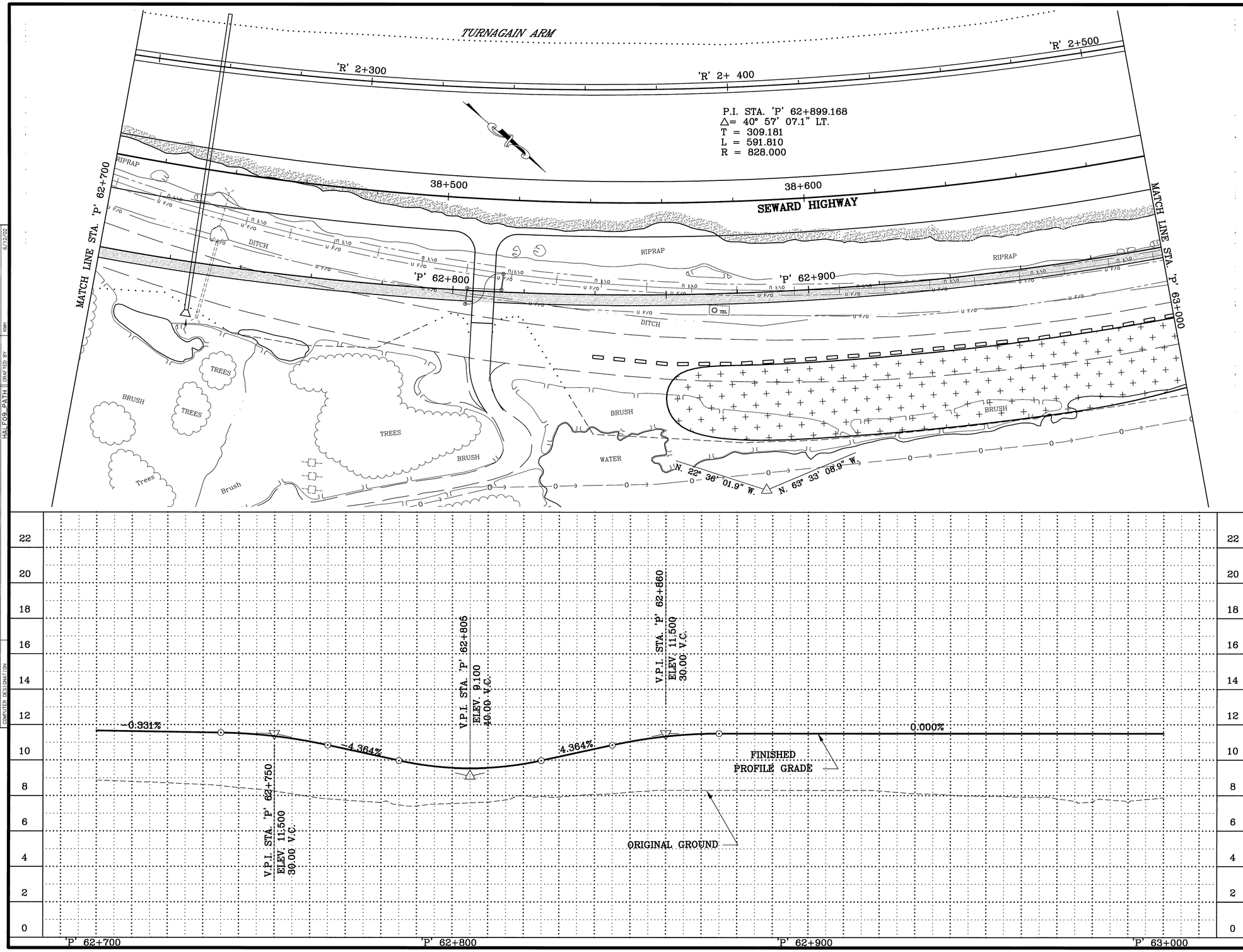
NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
6-18-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS
BIRD FLATS AREA
PATHWAY
PLAN AND PROFILE

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-CARDLEE: SDSKPROJ\53577\7PP
VIEW
HAL-P08-PATH
DESIGNED BY
CHECKED BY
DRAWN BY KRM
6/13/02



SHEET NO.	TOTAL SHEETS
FP9	FP18
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

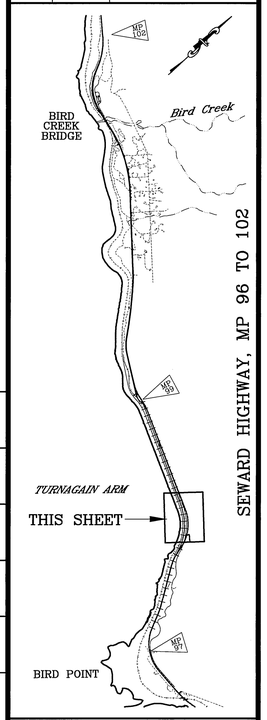
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
6-14-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS
BIRD FLATS AREA
PATHWAY
PLAN AND PROFILE

SPECIFICATIONS
SCALE 1=1
COORDINATE DESIGNATION
AUTOCAD-CAROLEE: SDSKPROJ\53577\77PP
VIEW
HALF09.PATH
DESIGNED BY
CHECKED BY
DRAWN BY KRM
6/12/02

SHEET NO.	TOTAL SHEETS
FP10	FP18
STATE	YEAR
ALASKA	2002

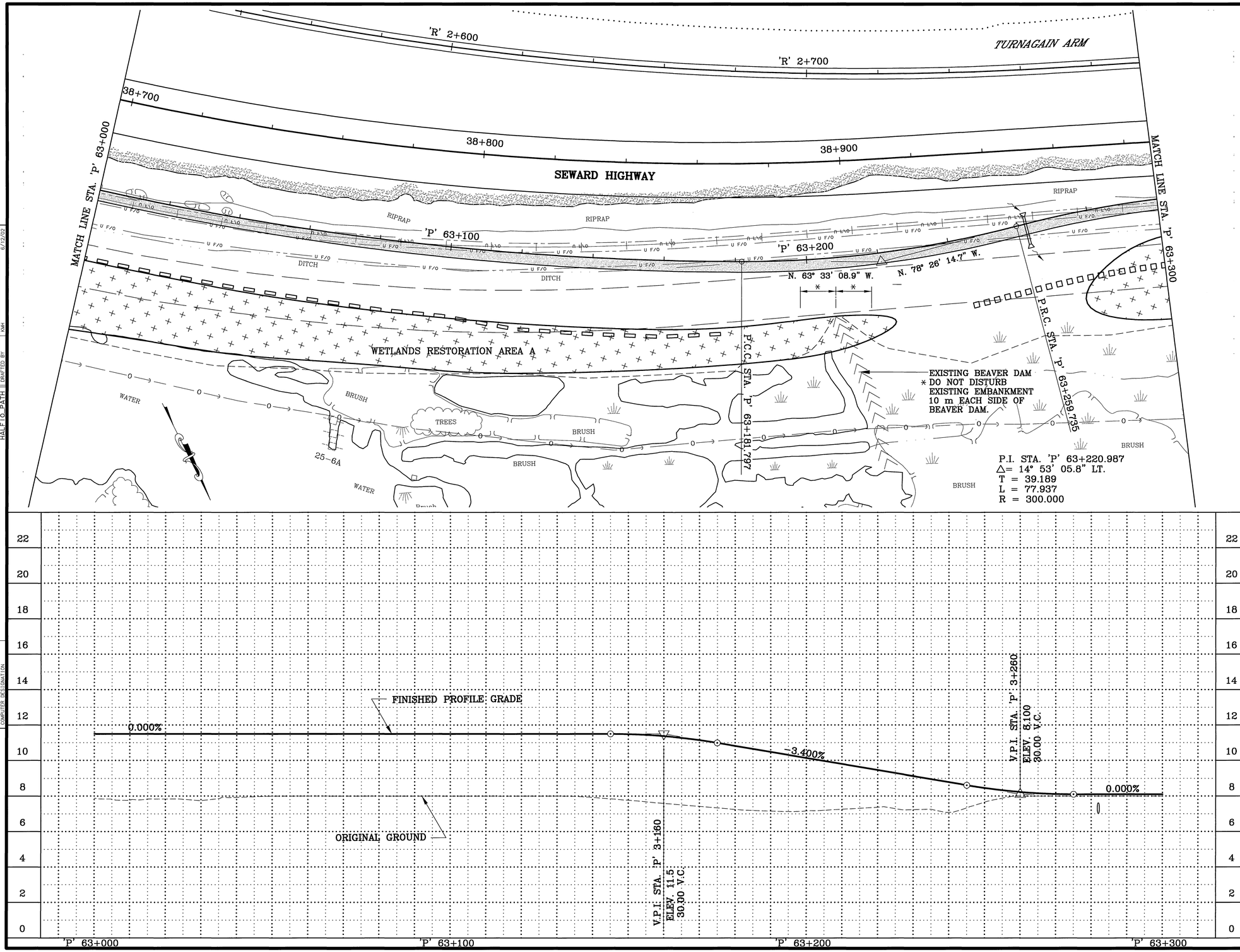
PROJECT DESIGNATION
NH-0A3-1(28)

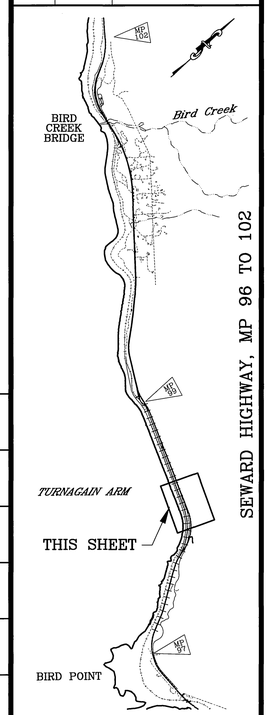
ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION





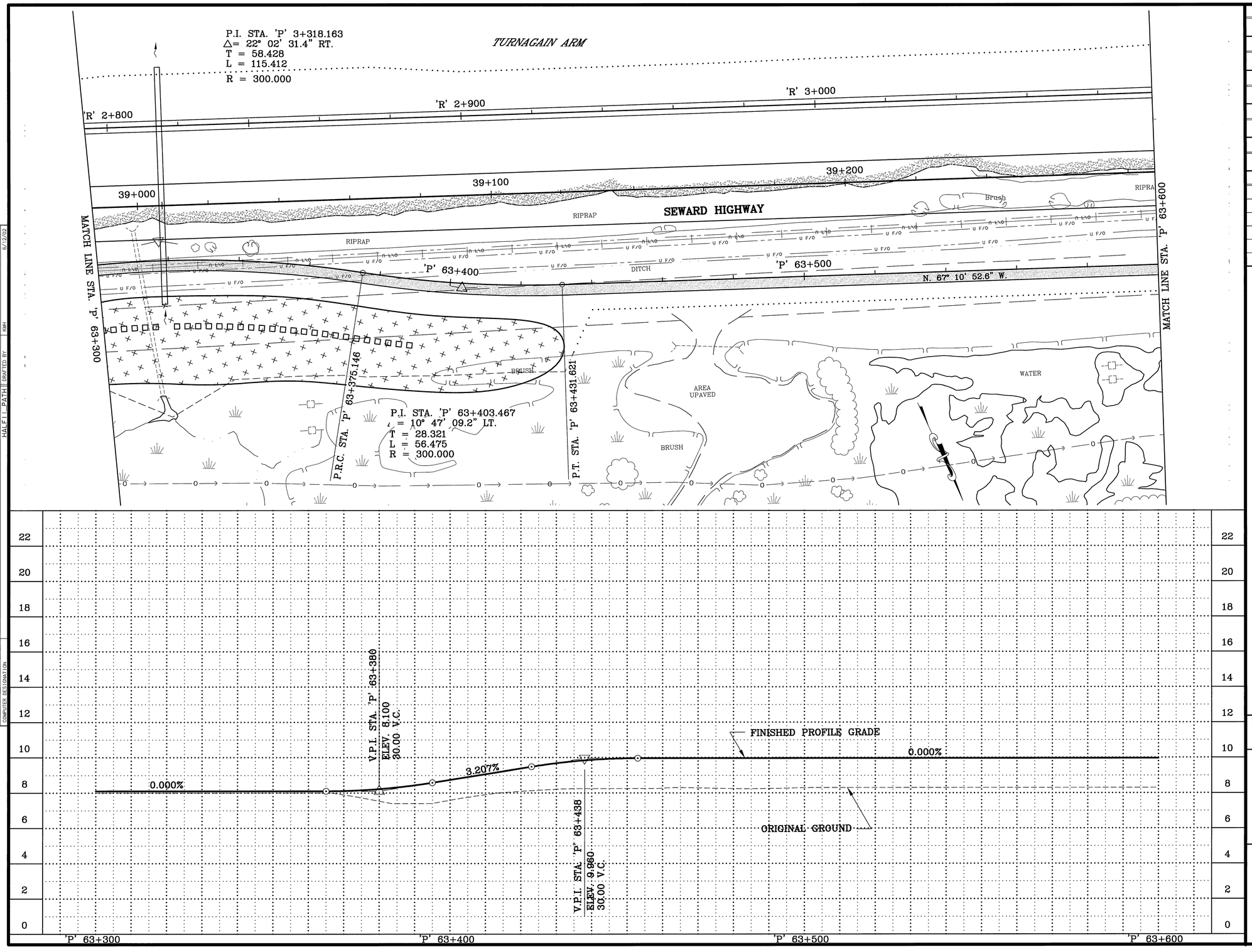
NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

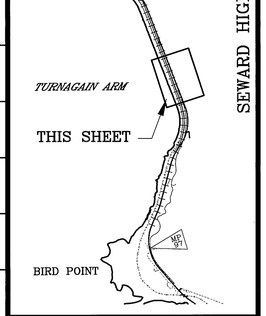
STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
6-18-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND RECREATIONAL IMPROVEMENTS
BIRD FLATS AREA
PATHWAY
PLAN AND PROFILE

SPECIFICATIONS
SCALE 1:1
COMPUTER DESIGNATION
AUTOCAD-CARDLEE: SDSKPROJ\33577X.7PP
VIEW= HALF_10_PATH
DESIGNED BY
CHECKED BY
DRAFTED BY KMH
6/12/02





SEWARD HIGHWAY, MP 96 TO 102

NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
6-12-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND RECREATIONAL IMPROVEMENTS
BIRD FLATS AREA PATHWAY
PLAN AND PROFILE

SHEET NO.	TOTAL SHEETS
FP11	FP18
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION
NH-0A3-1(28)

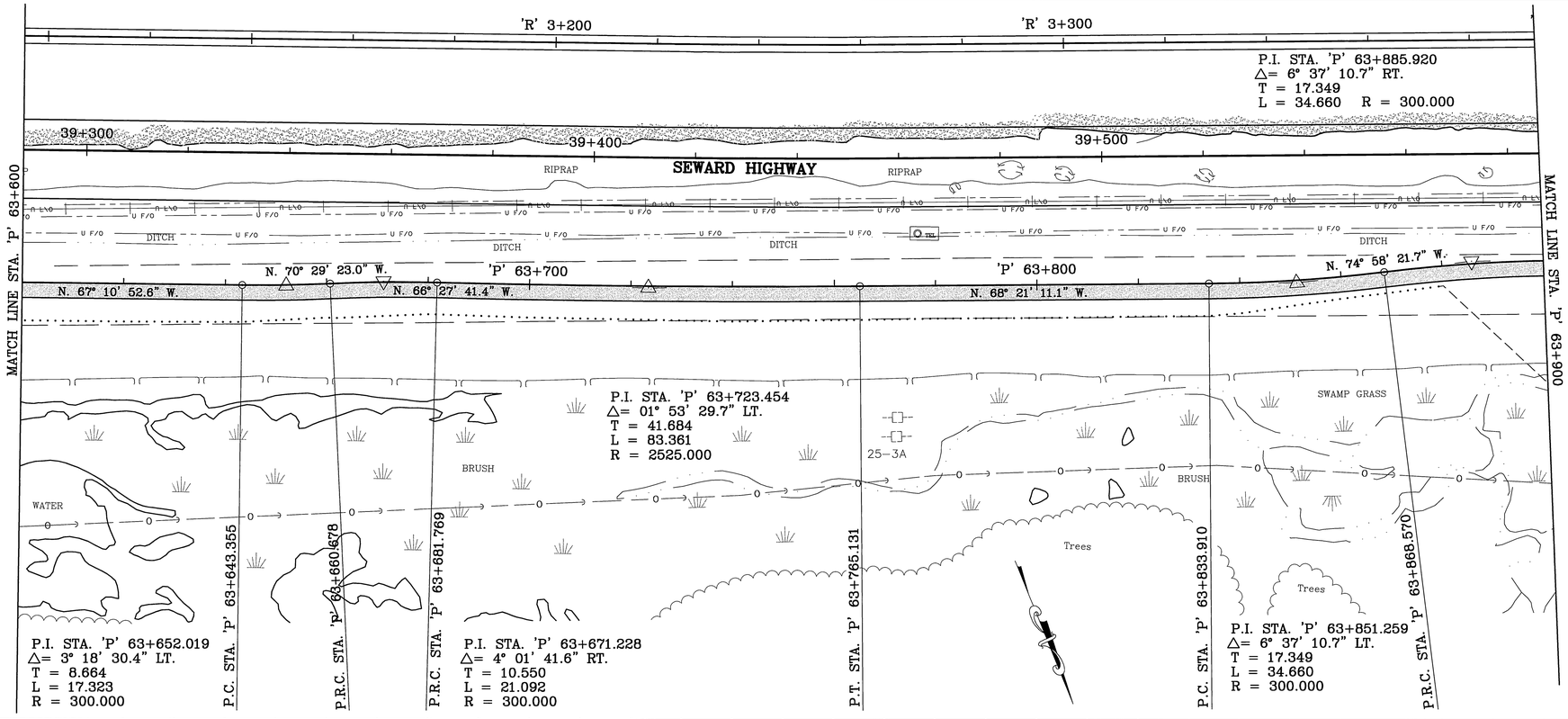
ADDENDUM NO.

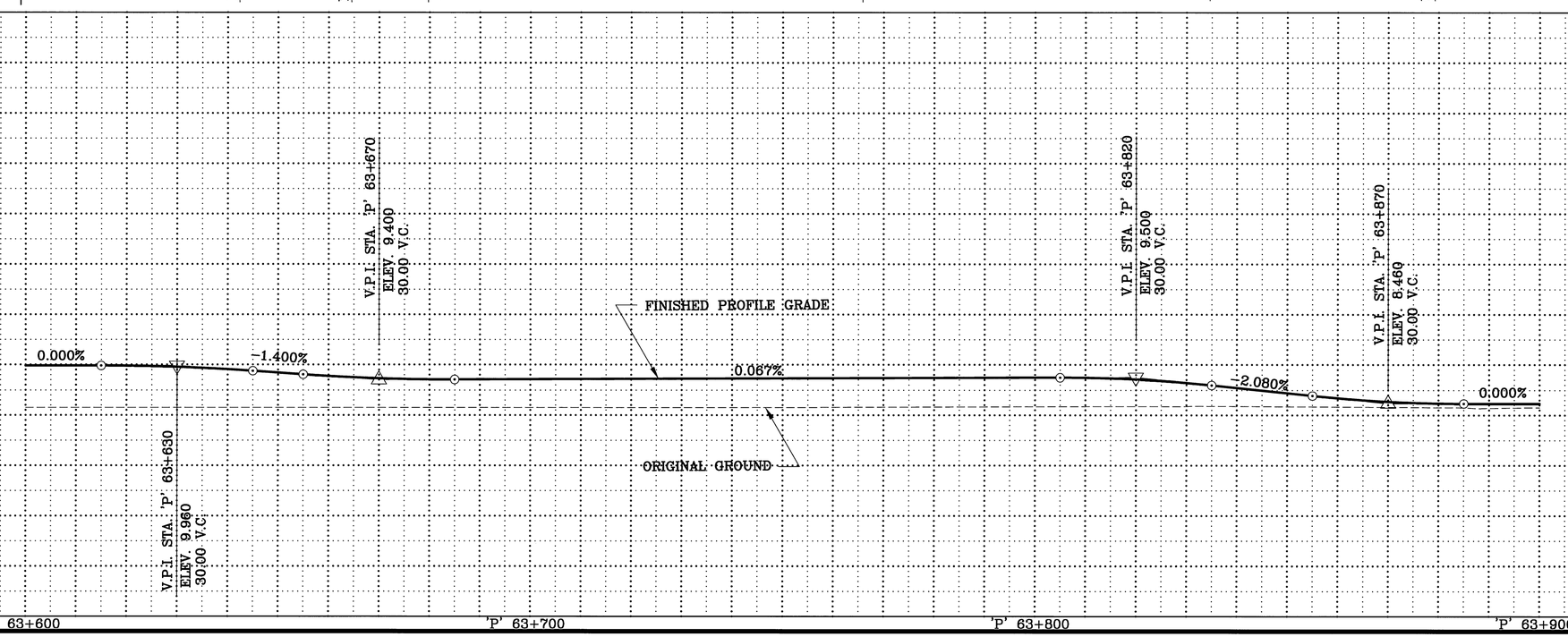
ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION

SPECIFICATIONS
SCALE 1:1
COORDINATE DESIGNATION
AUTOCAD-CARGILE: SISKPROJ\53577\7PP
DESIGNED BY
CHECKED BY
DRAFTED BY
VITEM=
HALF 1 PATH
6/12/02





SHEET NO.	TOTAL SHEETS
FP12	FP18
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

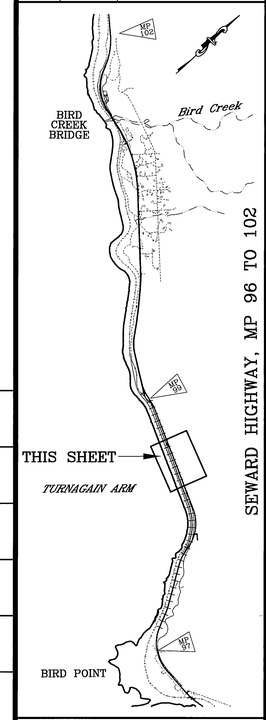
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

STATE OF ALASKA 49TH JUDY J. DOUGHERTY CE 8823 6-14-02 REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND RECREATIONAL IMPROVEMENTS

BIRD FLATS AREA PATHWAY
PLAN AND PROFILE

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-CAROLLE: SDSKPROJ\53577\77PP
VIEW: HALF12_PATH
DESIGNED BY
CHECKED BY
DRAWN BY KSM
6/12/02

SHEET NO.	TOTAL SHEETS
FP13	FP18
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

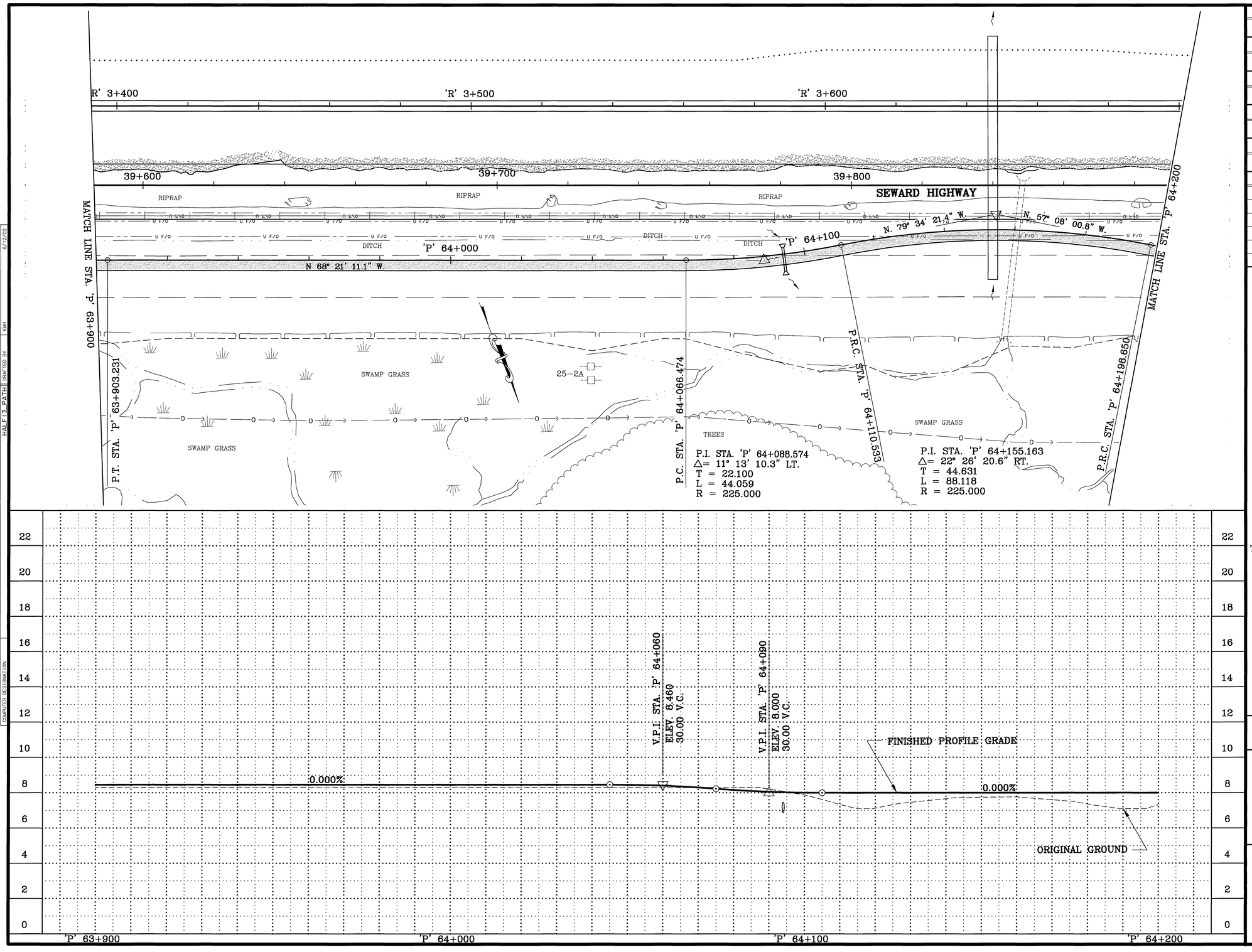
NH-0A3-1(28)

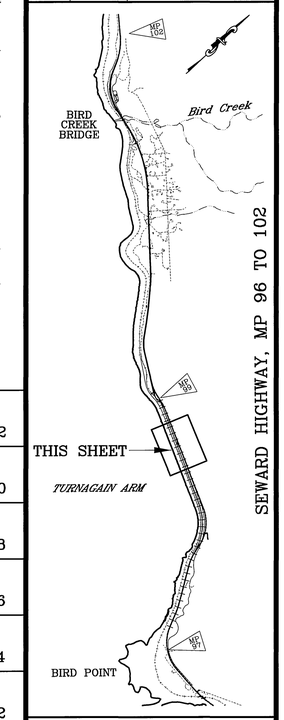
ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION





NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

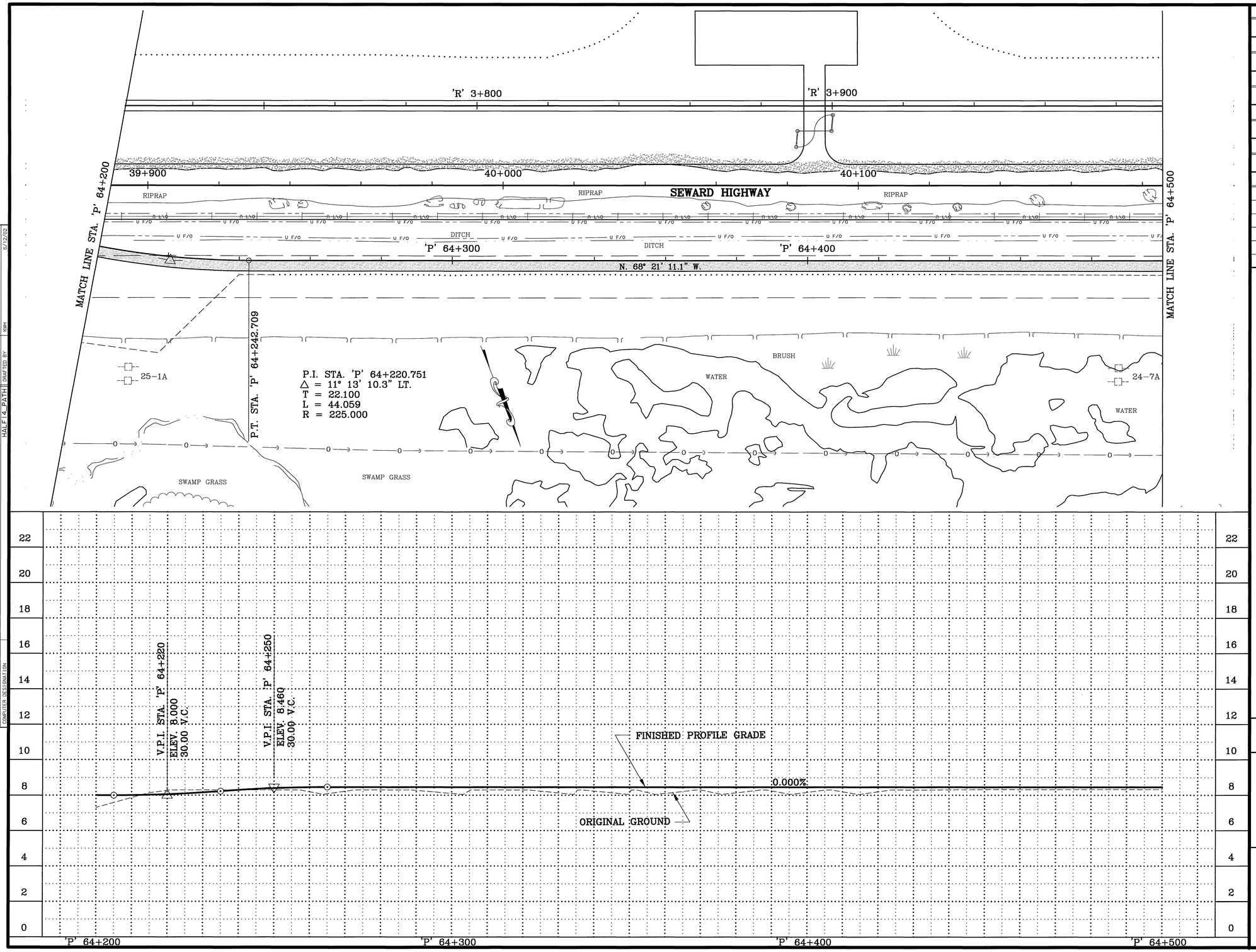
STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
6-19-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

BIRD FLATS AREA
PATHWAY
PLAN AND PROFILE

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-CARLEE: SDSKPROJ\S3577\77PP
VIEW
HALF 3_PATH
DESIGNED BY
CHECKED BY
DRAWN BY
KBM
6/12/02



SHEET NO.	TOTAL SHEETS
FP14	FP18
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

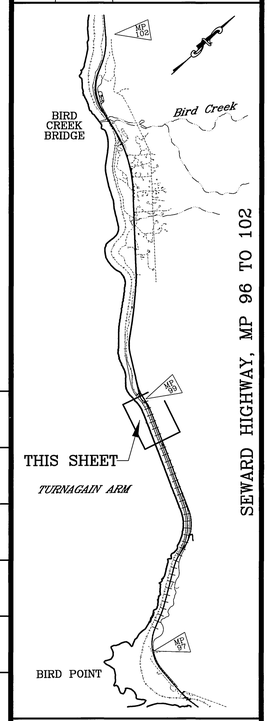
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



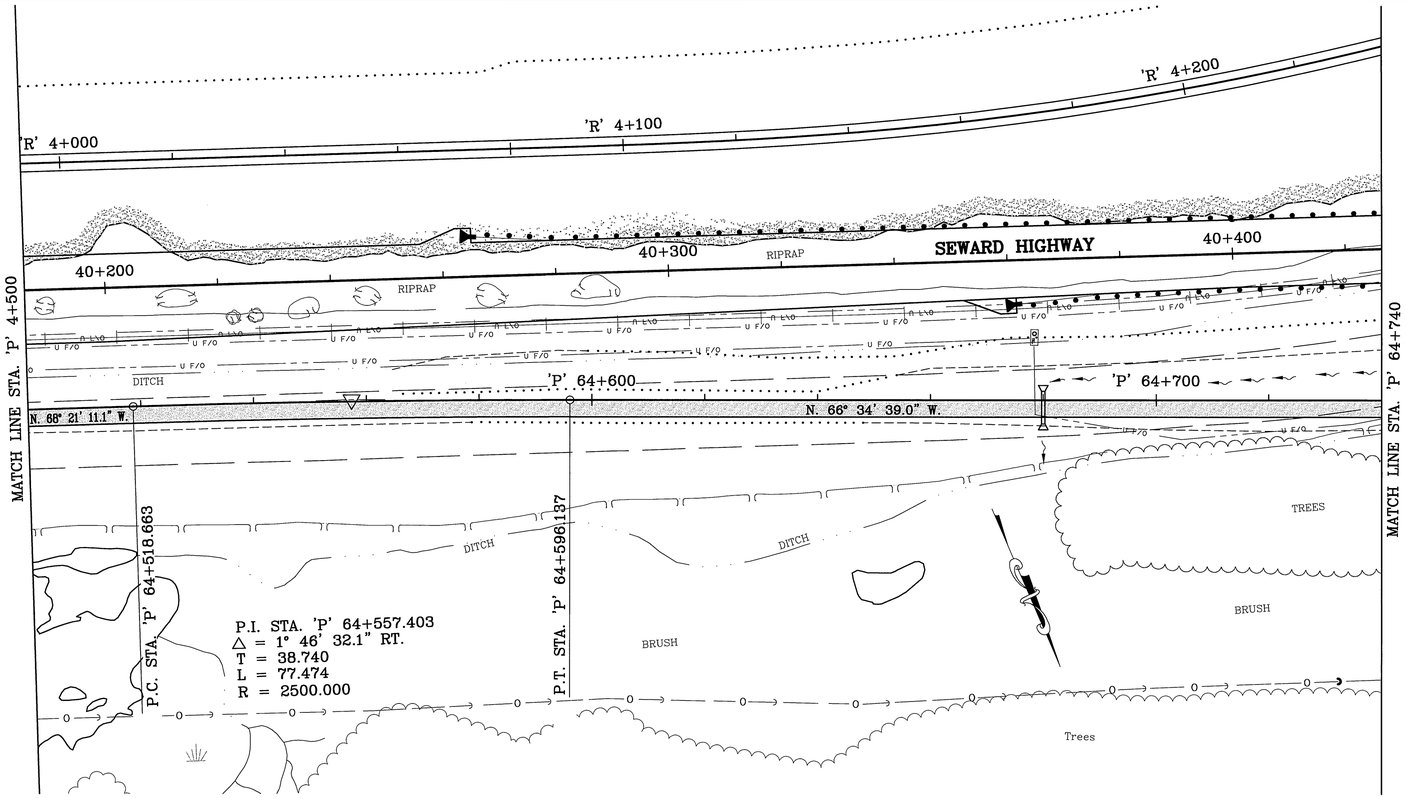
NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

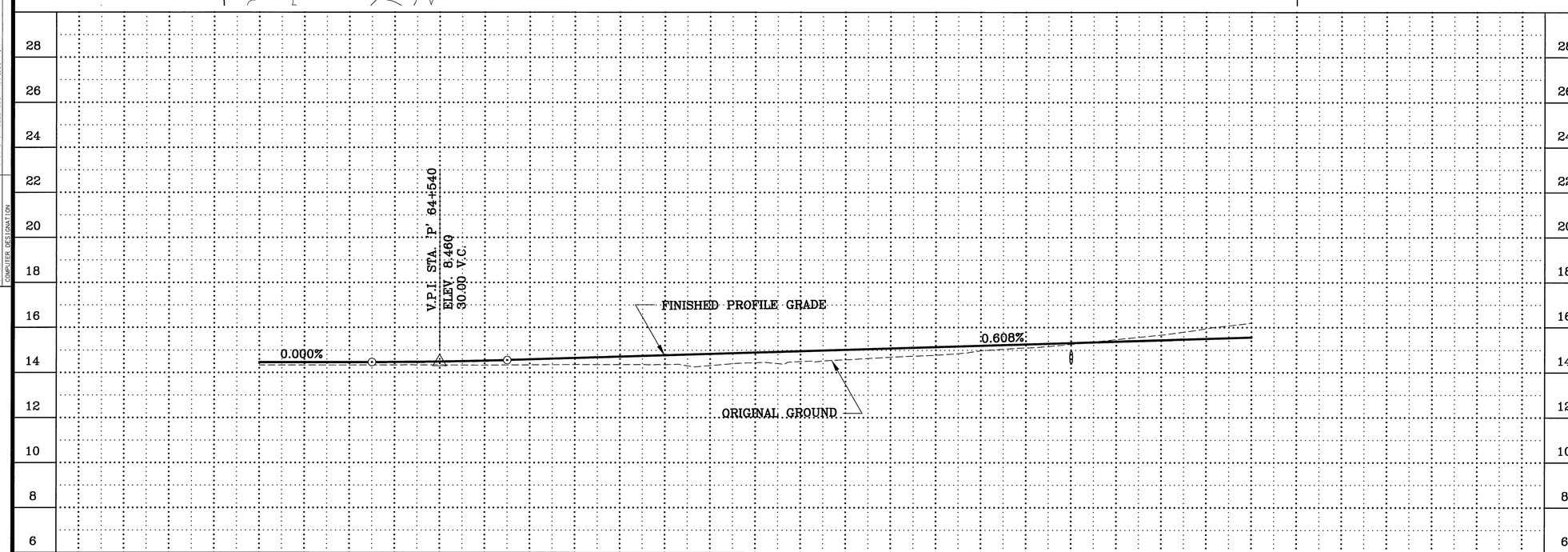
STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND RECREATIONAL IMPROVEMENTS
BIRD FLATS AREA
PATHWAY
PLAN AND PROFILE

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-CARDLE: SDSKPROJ\53577\77PP
VIEW
HALF14_PATH
DESIGNED BY
CHECKED BY
DRAWN BY
JGM
6/12/02





SHEET NO.	TOTAL SHEETS
FP15	FP18
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

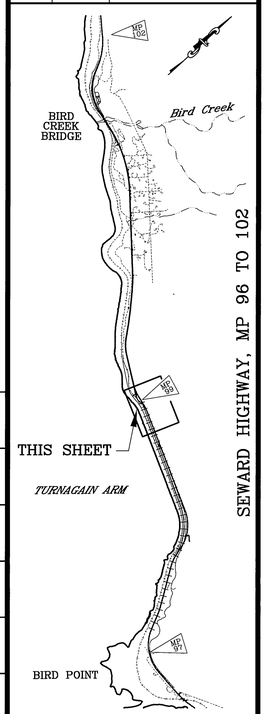
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



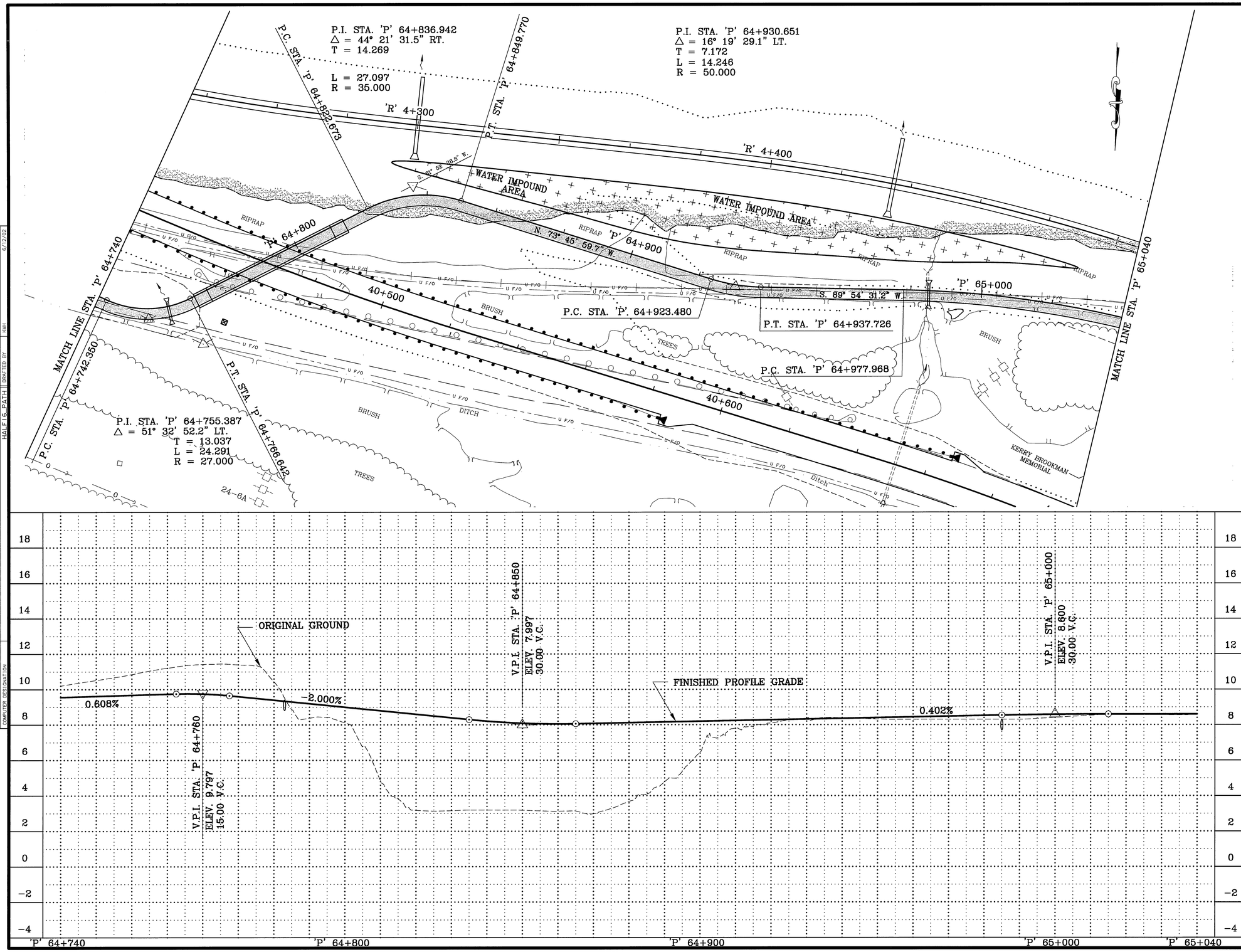
NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

STATE OF ALASKA 49TH JUDY J. DOUGHERTY CE 8823 6-7-02 REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND RECREATIONAL IMPROVEMENTS
BIRD FLATS AREA PATHWAY
PLAN AND PROFILE

SPECIFICATIONS
SCALE: 1=1
COMPUTER DESIGNATION: AUTOCAD-CAROLEE: SBSKPROJ\S3577\77PP
VIEW: HALF 15.PATH
DESIGNED BY
CHECKED BY
DRAWTED BY: KMH
6/12/02



SHEET NO.	TOTAL SHEETS
FP16	FP18
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

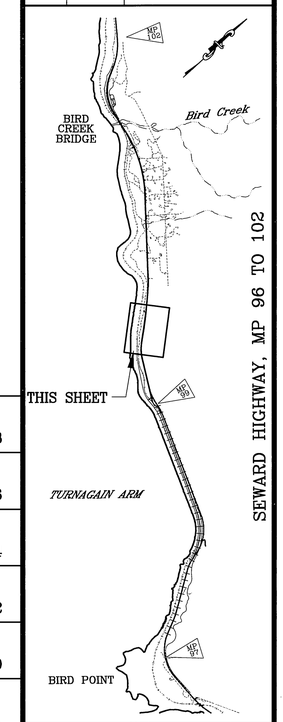
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

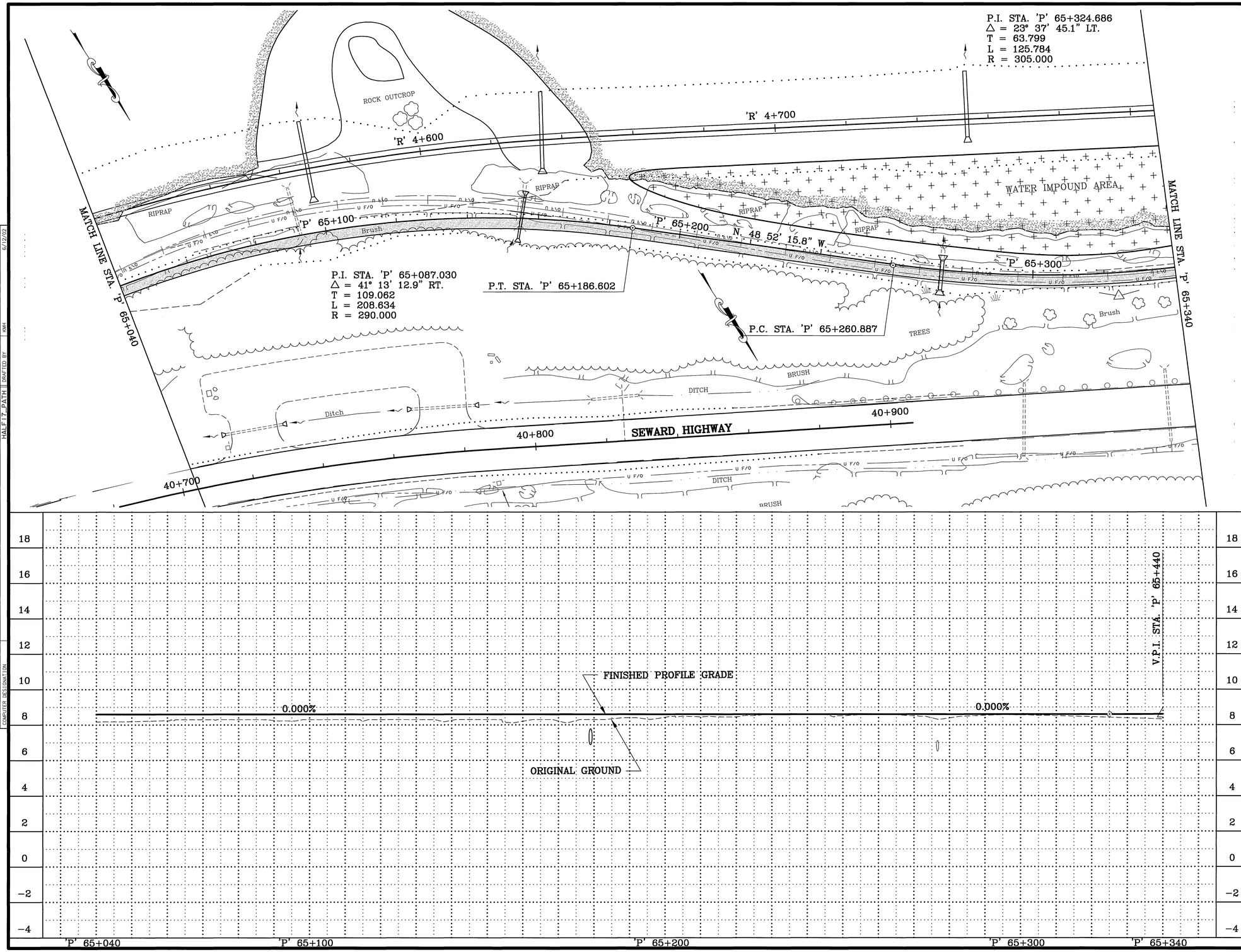
STATE OF ALASKA
JUDY A. DOUGHERTY
CE 8823
11-26-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND RECREATIONAL IMPROVEMENTS

BIRD FLATS AREA PATHWAY
PLAN AND PROFILE

SPECIFICATIONS	
SCALE: 1:1	
COMPUTER DESIGNATION	AUTOCAD-CARDLEE: SDSKPROJ\53577\7.TPP
DESIGNED BY	
CHECKED BY	
DRAFTED BY	KMH
VIEW:	6/12/02
HALF16_PATH	



SHEET NO.	TOTAL SHEETS
FP17	FP18
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

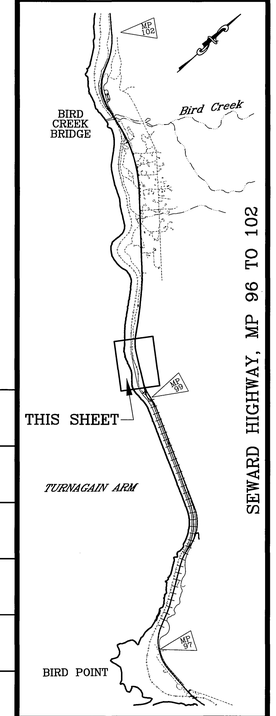
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

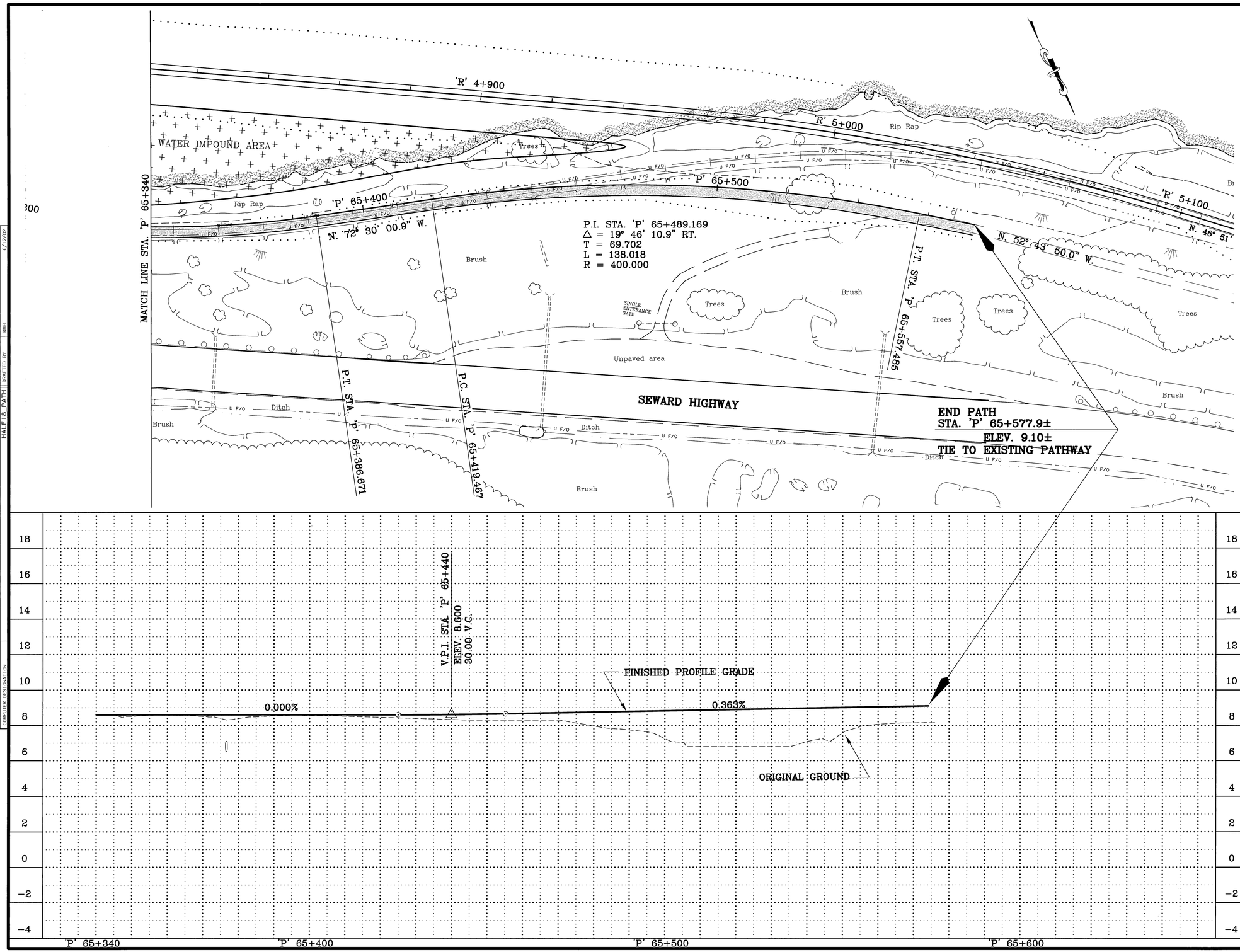
STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
6-17-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

BIRD FLATS AREA
PATHWAY
PLAN AND PROFILE

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-CARDLEE:SDSKPROJ\53577\77PP
DESIGNED BY
CHECKED BY
DRAFTED BY
XRH
6/12/02
VIEW
HALF17_PATH



SHEET NO.	TOTAL SHEETS
FP18	FP18
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

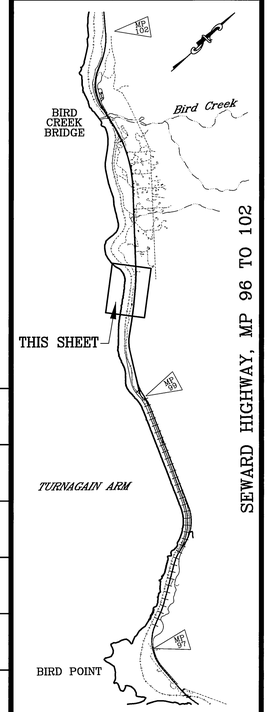
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



SEWARD HIGHWAY, MP 96 TO 102

NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

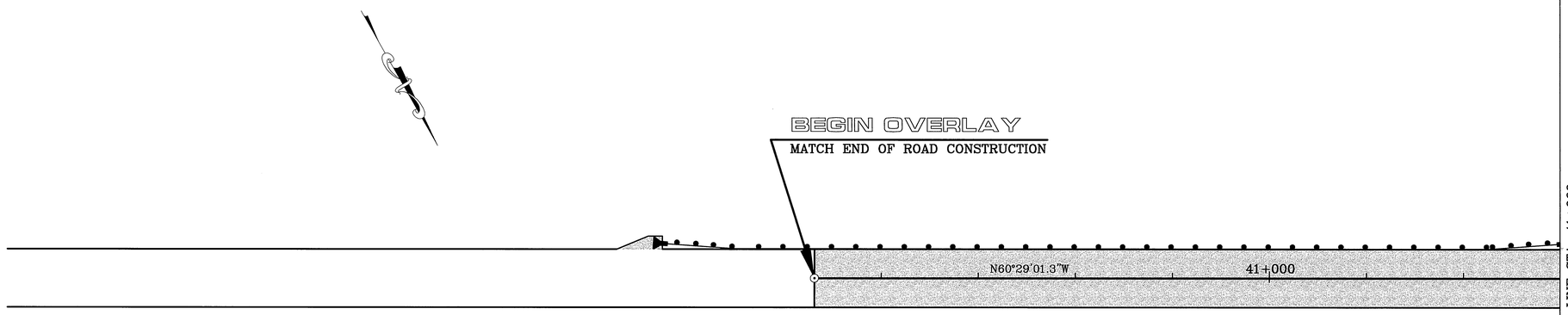
STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
REGISTERED PROFESSIONAL ENGINEER

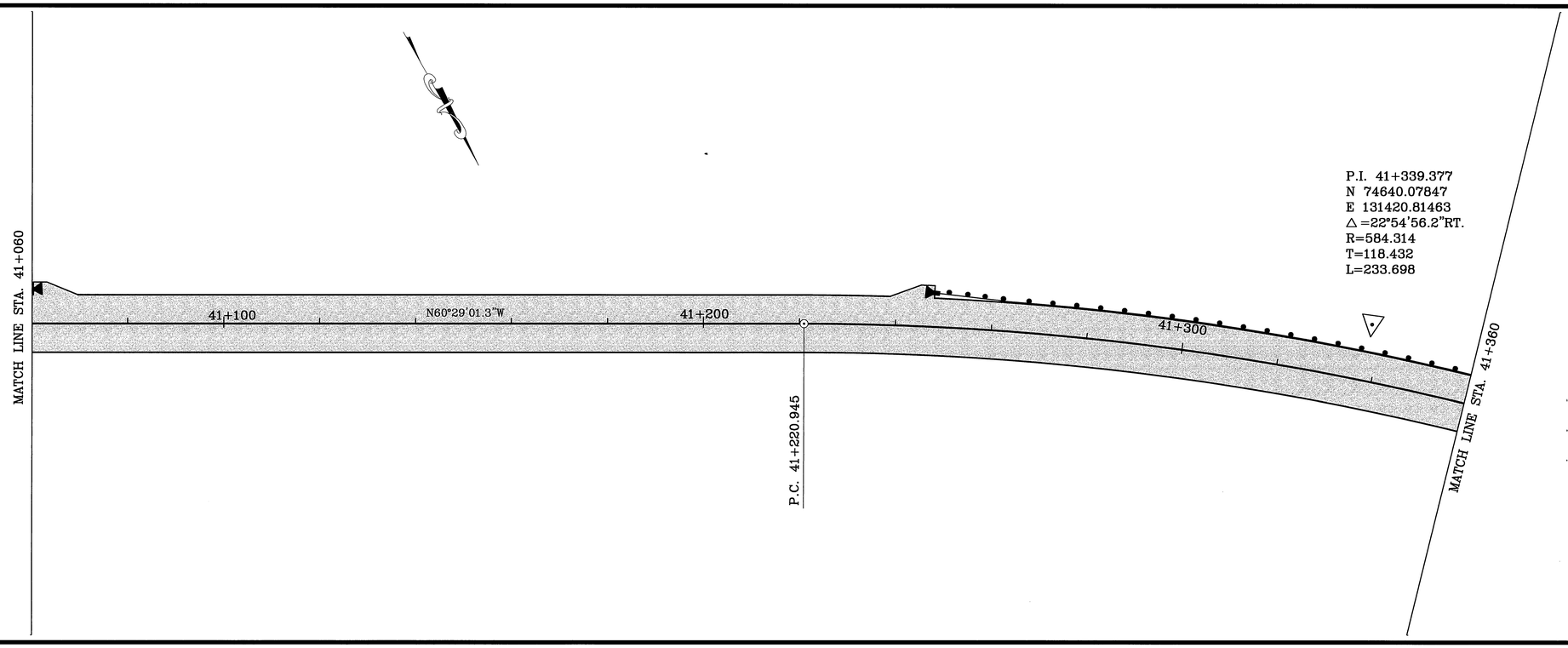
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

BIRD FLATS AREA
PATHWAY
PLAN AND PROFILE

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-CARALEE: SDSKPROJ\SS577\7PP
DESIGNED BY
CHECKED BY
DRAWN BY
KSM
6/12/02
VIEW
HALF 8_PATH





SPECIFICATIONS	
SCALE 1=1	AUTOCAD-KABEN~
COMPUTER DESIGNATION	D:\SESKPROJ\53577\DATA\NONBIRDV770LCL.DWG 9-27-01 8:20:16 am EST VIEW=

DESIGNED BY	
CHECKED BY	
DRAFTED BY	KMH

SHEET NO.	TOTAL SHEETS
F01	F07
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

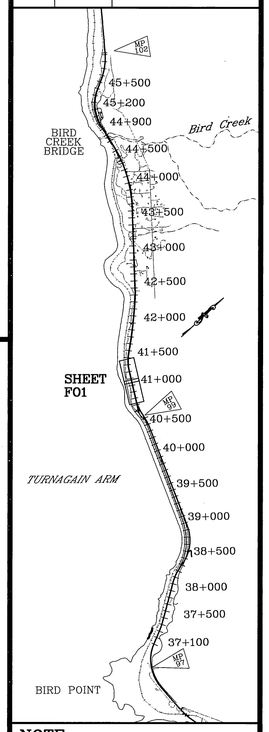
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION

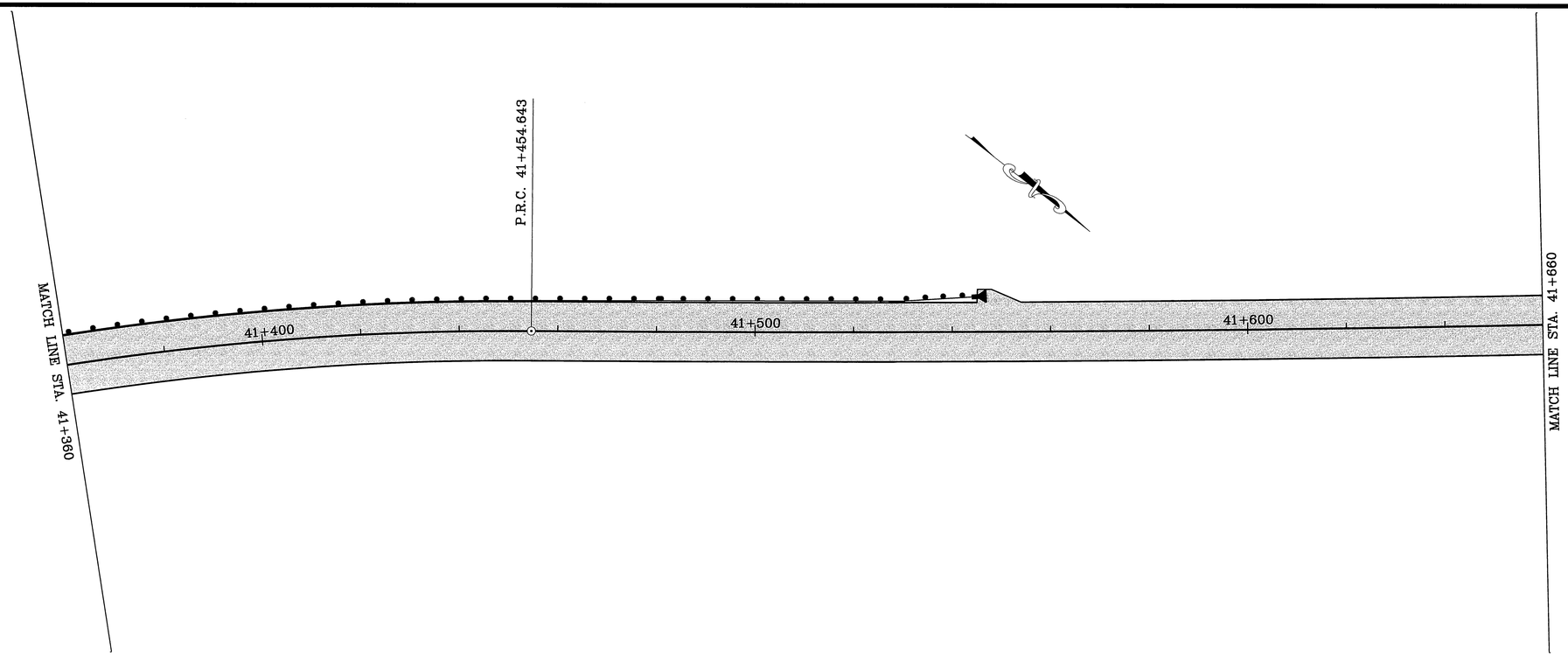


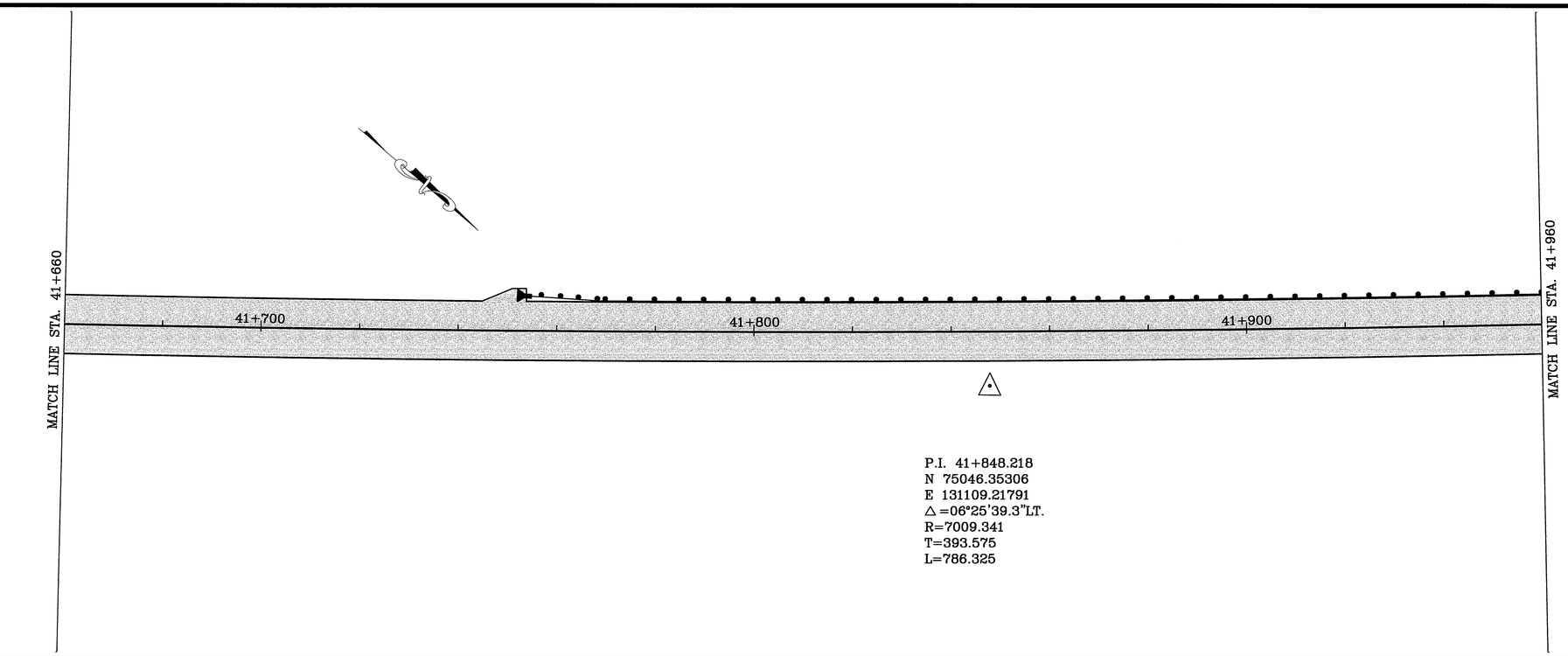
NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8825
9-17-2
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS
OVERLAY
BIRD FLATS TO BIRD CREEK
PLAN SHEET





P.I. 41+848.218
N 75046.35306
E 131109.21791
Δ =06°25'39.3"LT.
R=7009.341
T=393.575
L=786.325

SHEET NO.	TOTAL SHEETS
F02	F07
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

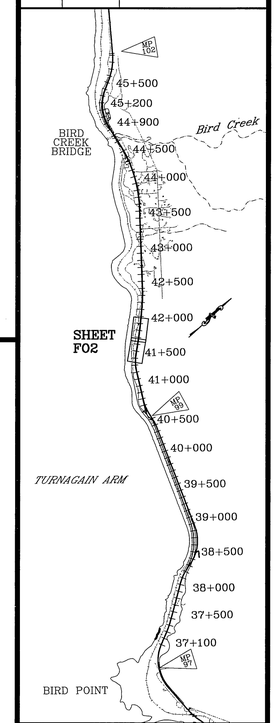
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



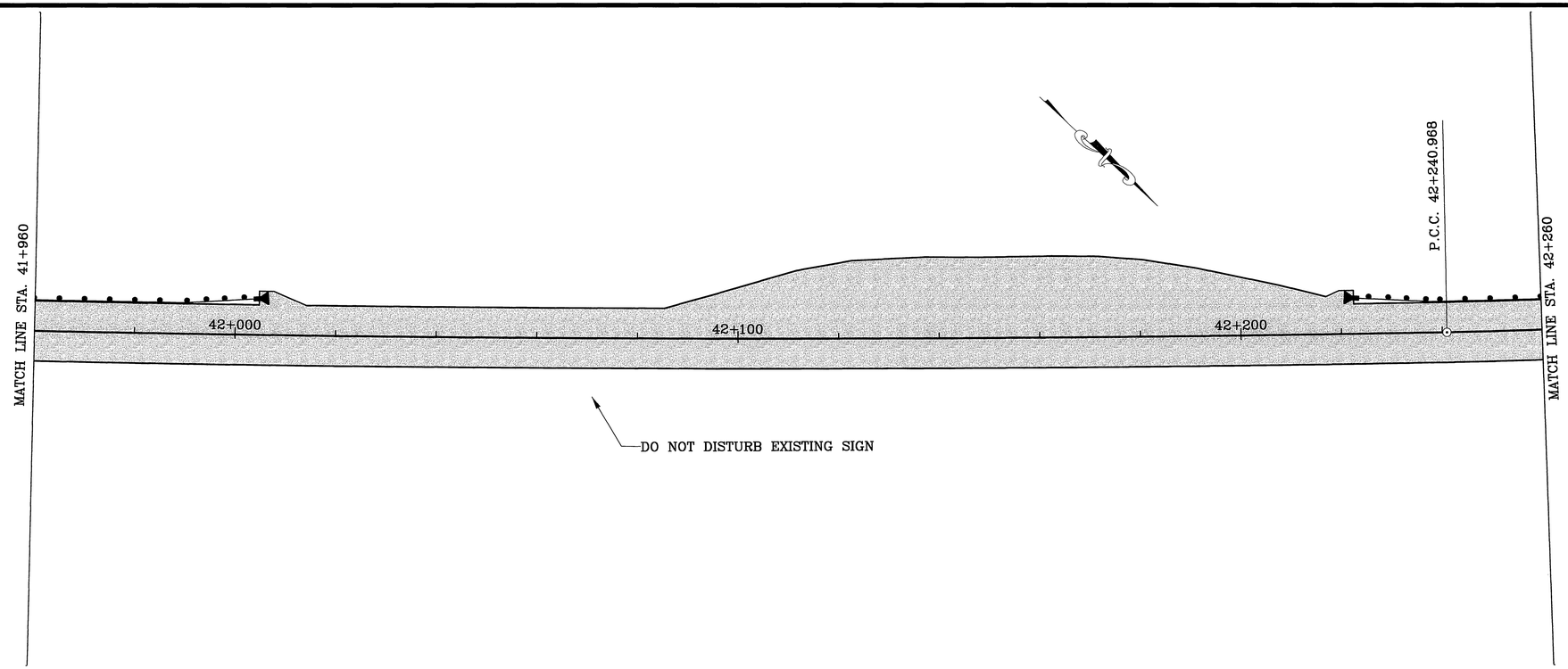
NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

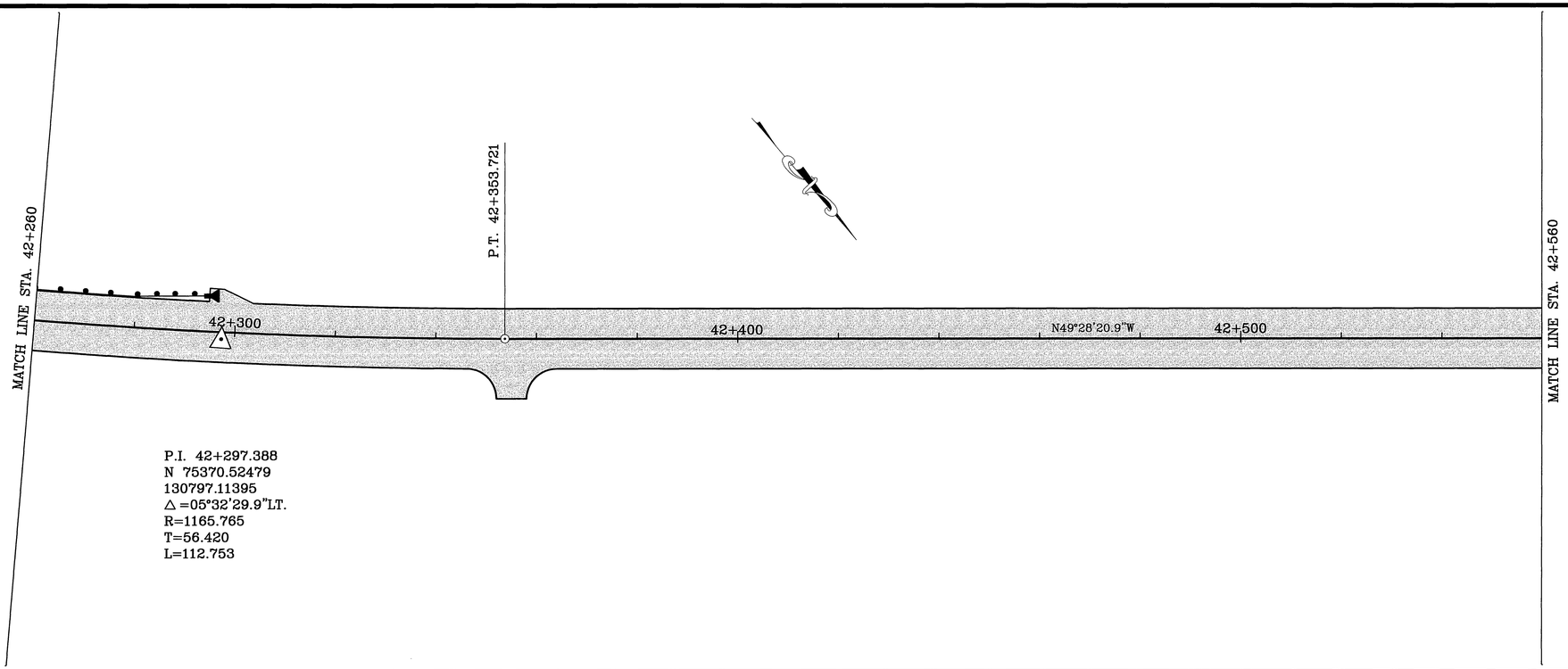
STATE OF ALASKA
JUDY J. DOUGHERTY
CE 8823
6-17-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS
OVERLAY
BIRD FLATS TO BIRD CREEK
PLAN SHEET

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-KAREN-
D:\DISKPRO\33377\DATA\NDNBIRD\770LCL.DWG 9-27-01 8:20:16 am EST
VIEW=
DESIGNED BY
CHECKED BY
DRAFTED BY KMH





SHEET NO.	TOTAL SHEETS
F03	F07
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

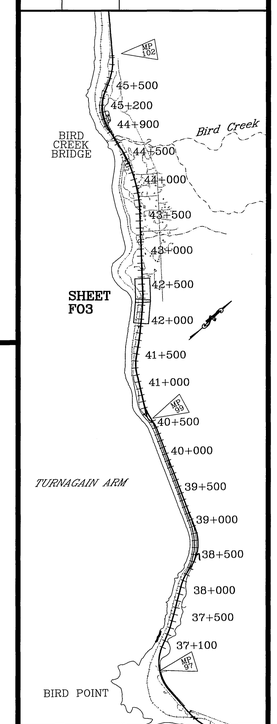
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



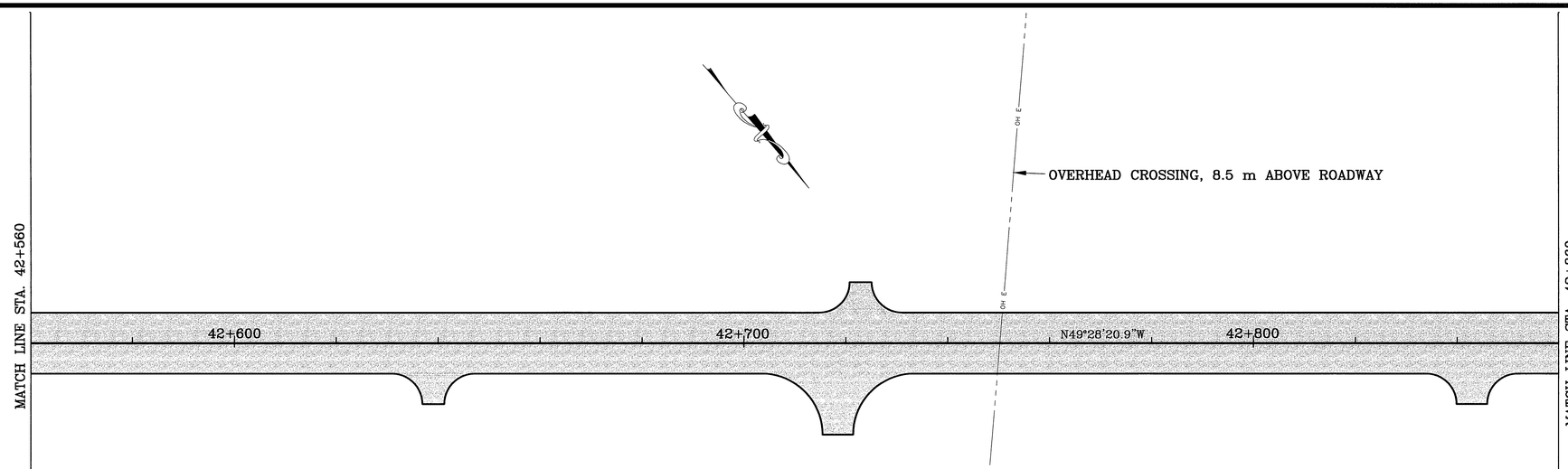
NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

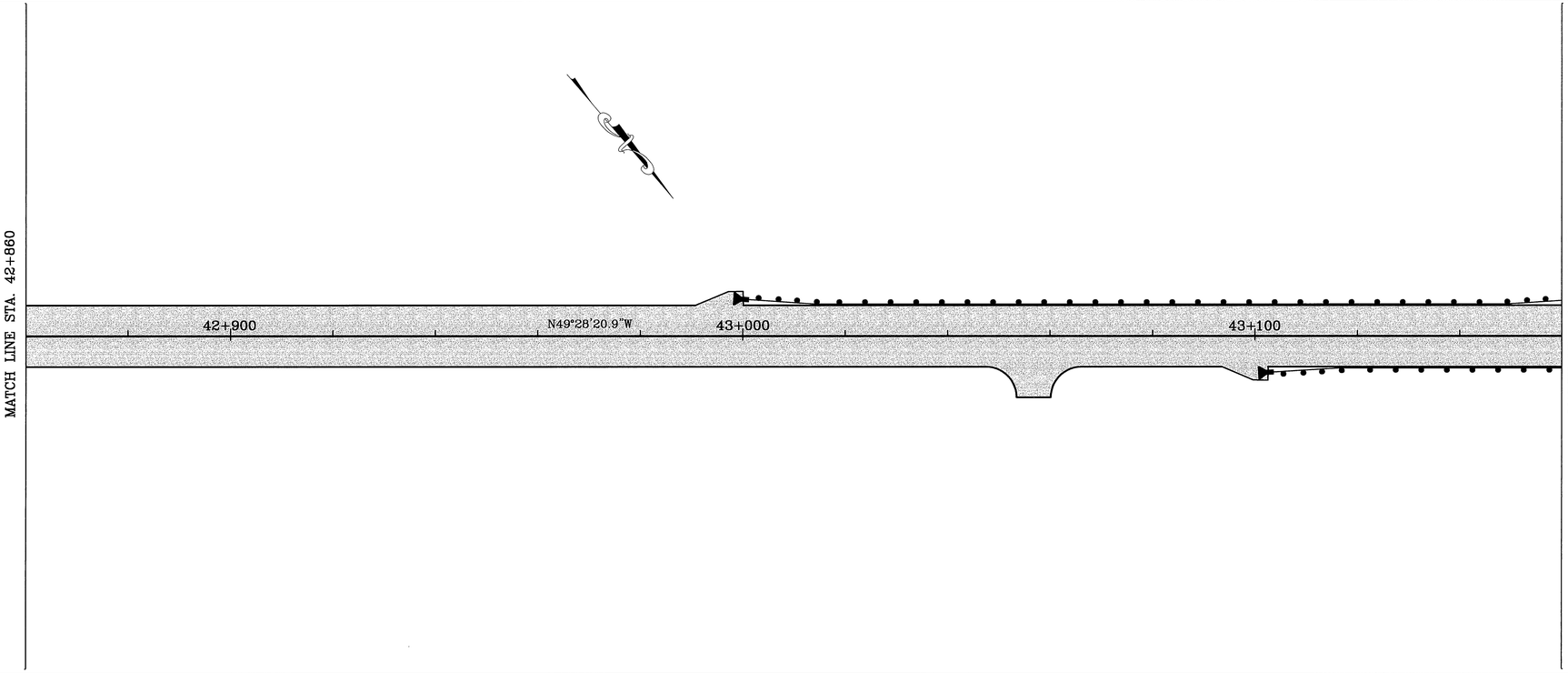
STATE OF ALASKA
JUDY J. DOUGHERTY
CE 8823
4-17-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS
OVERLAY
BIRD FLATS TO BIRD CREEK
PLAN SHEET

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-KAREN
D:\DSKPROJ\3357\DATA\NONBIPD\770LCL.DWG 9-27-01 8:20:16 am EST
VIEW
DESIGNED BY
CHECKED BY
DRAFTED BY
KWH





SHEET NO.	TOTAL SHEETS
F04	F07
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

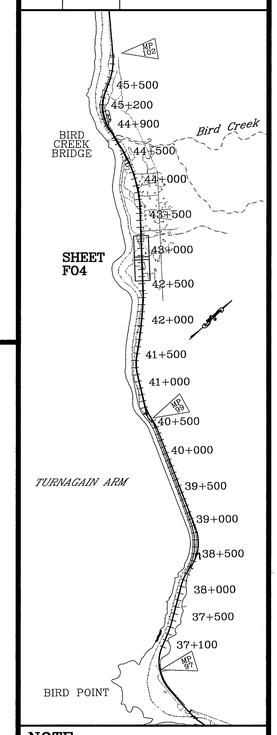
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
9-17-02
REGISTERED PROFESSIONAL ENGINEER

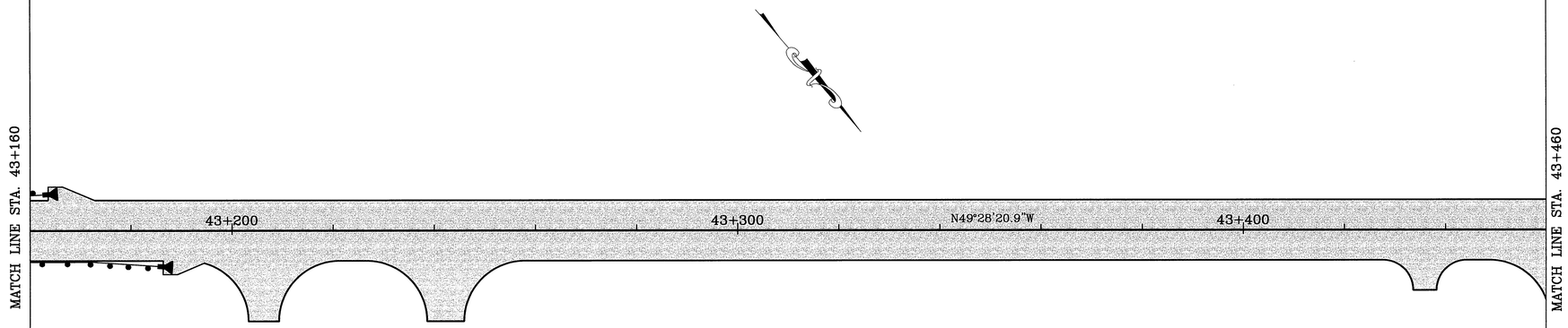
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

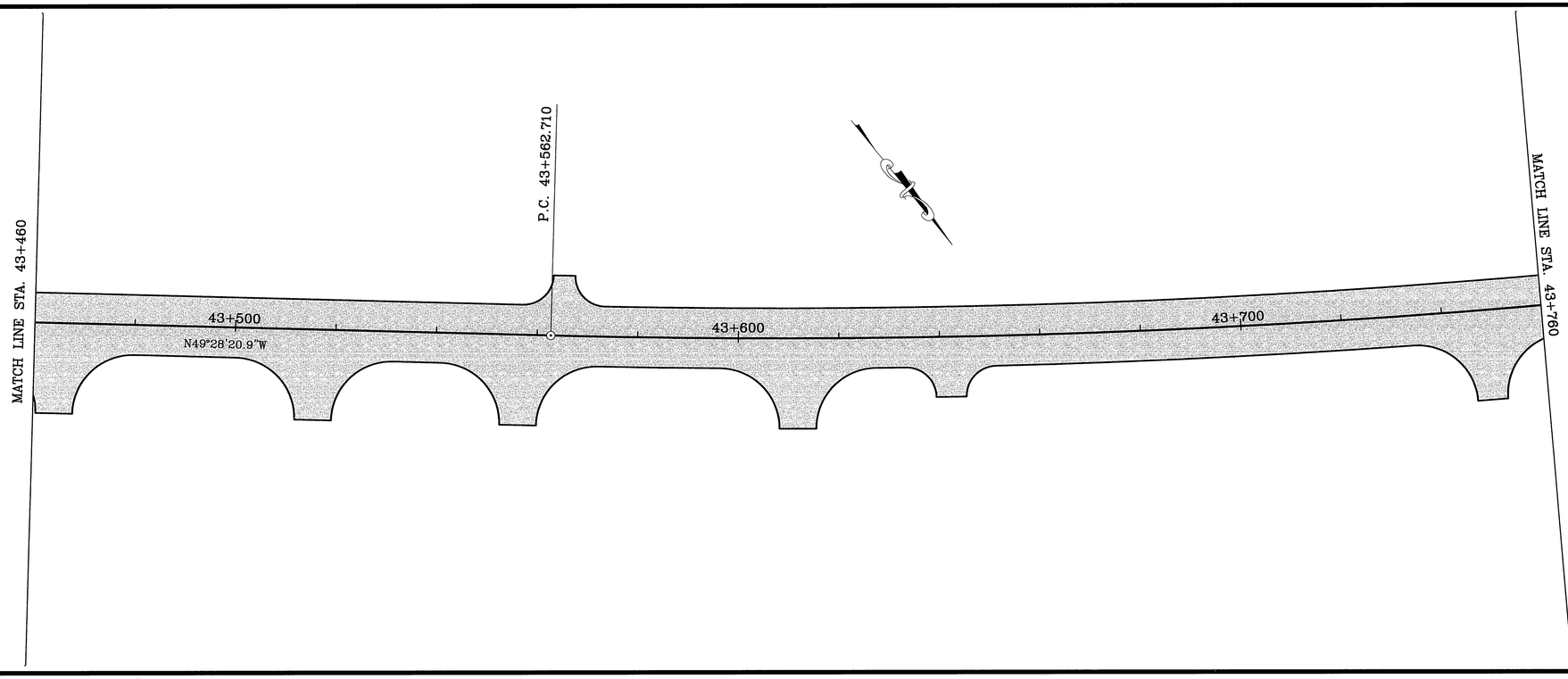
SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS
OVERLAY
BIRD FLATS TO BIRD CREEK
PLAN SHEET

DESIGNED BY	
CHECKED BY	
DRAFTED BY	KMH

VIEW=

SPECIFICATIONS
SCALE 1=1 AUTOCAD-KAREN=
COMPUTER DESIGNATION D:\SDSKPROJ\53577\DATA\INDNB\RD770LCL.DWG 9-27-01 8:20:16 am EST





SHEET NO.	TOTAL SHEETS
F05	F07
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

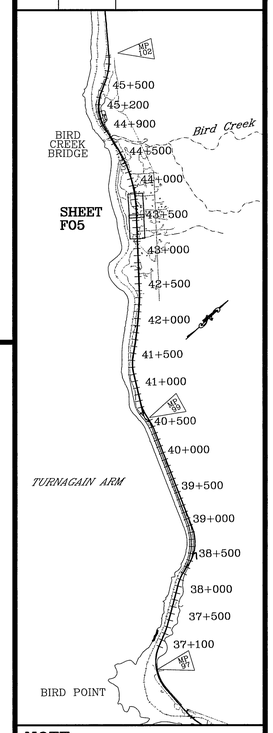
NH-0A3-1(28)

ADDENDUM NO.

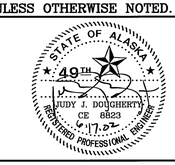
ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS
OVERLAY
BIRD FLATS TO BIRD CREEK
PLAN SHEET

DESIGNED BY	
CHECKED BY	
DRAFTED BY	KMH
VIEW=	
9-27-01 8:20:16 am EST	
AUTOCAD-KAREN=	
D:\SDSKPROJ\53577\DATA\INDNBIRD\770LCL.DWG	
SPECIFICATIONS	
SCALE 1=1	
COMPUTER DESIGNATION	

SHEET NO.	TOTAL SHEETS
F06	F07
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

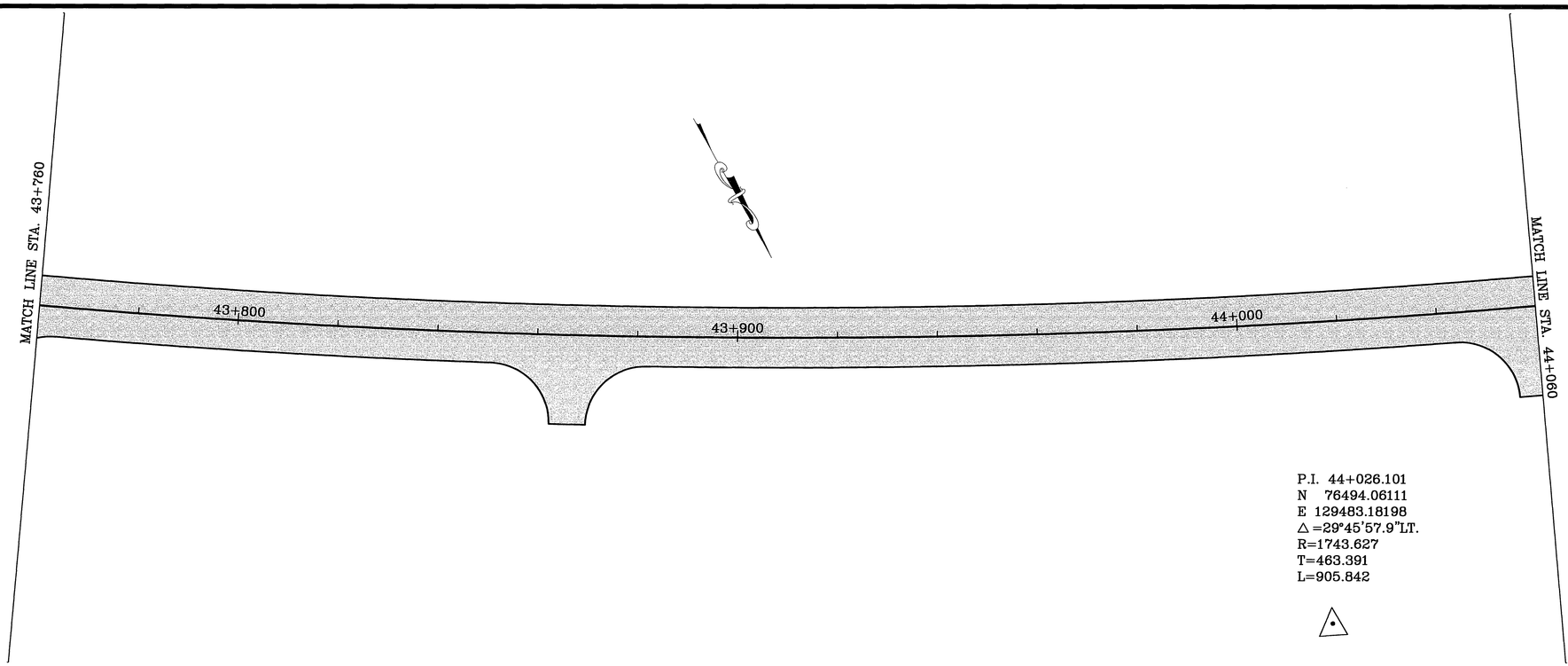
NH-0A3-1(28)

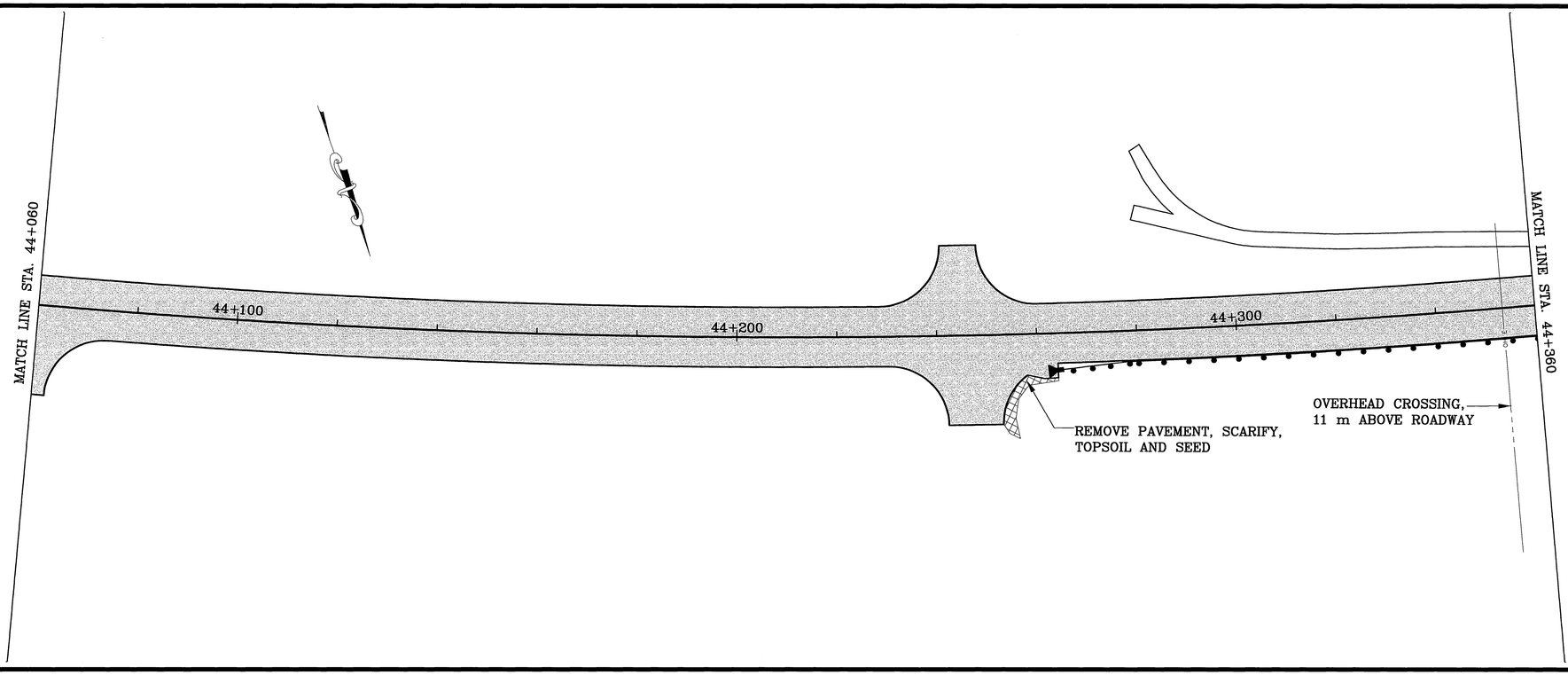
ADDENDUM NO.

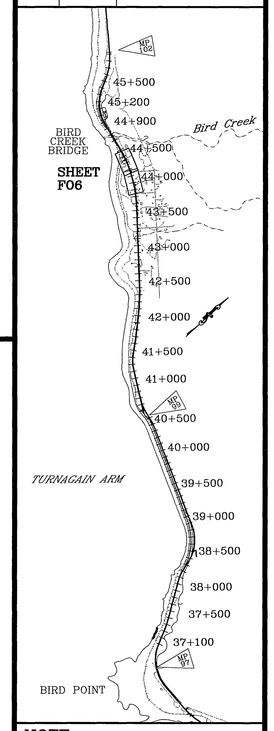
ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION







NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

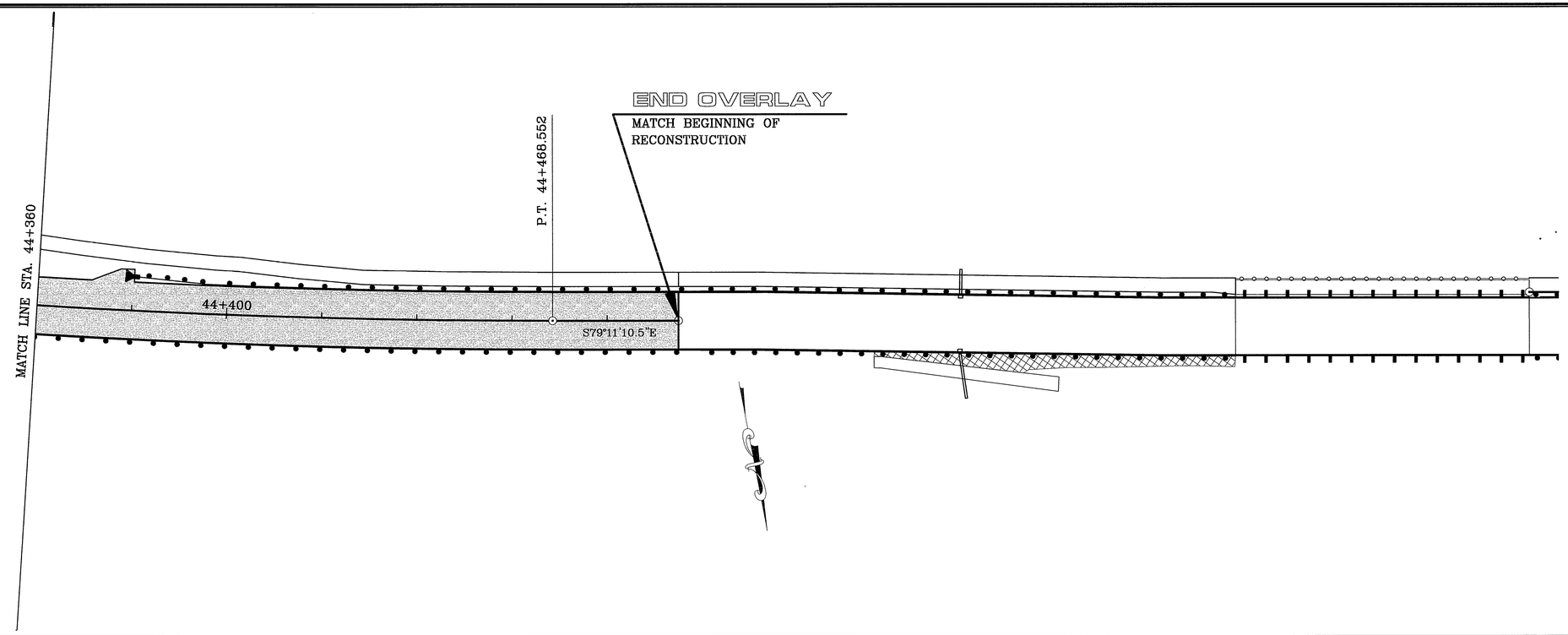
STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
9-17-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

OVERLAY
BIRD FLATS TO BIRD CREEK
PLAN SHEET

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-KOREN-
D:\SDSKPROJ\53277\DATA\NDHBIRDV170LCL.DWG 9-27-01 8:20:16 am EST
VIEW=
DESIGNED BY
CHECKED BY
DRAFTED BY
KMH



SHEET NO.	TOTAL SHEETS
F07	F07
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

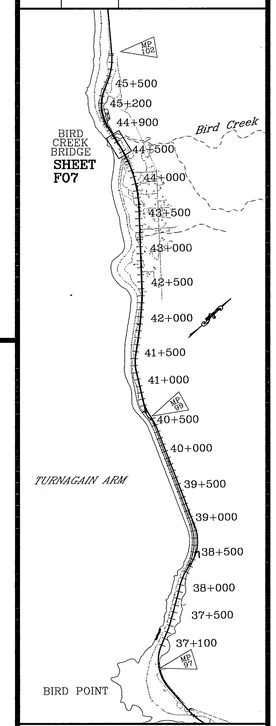
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

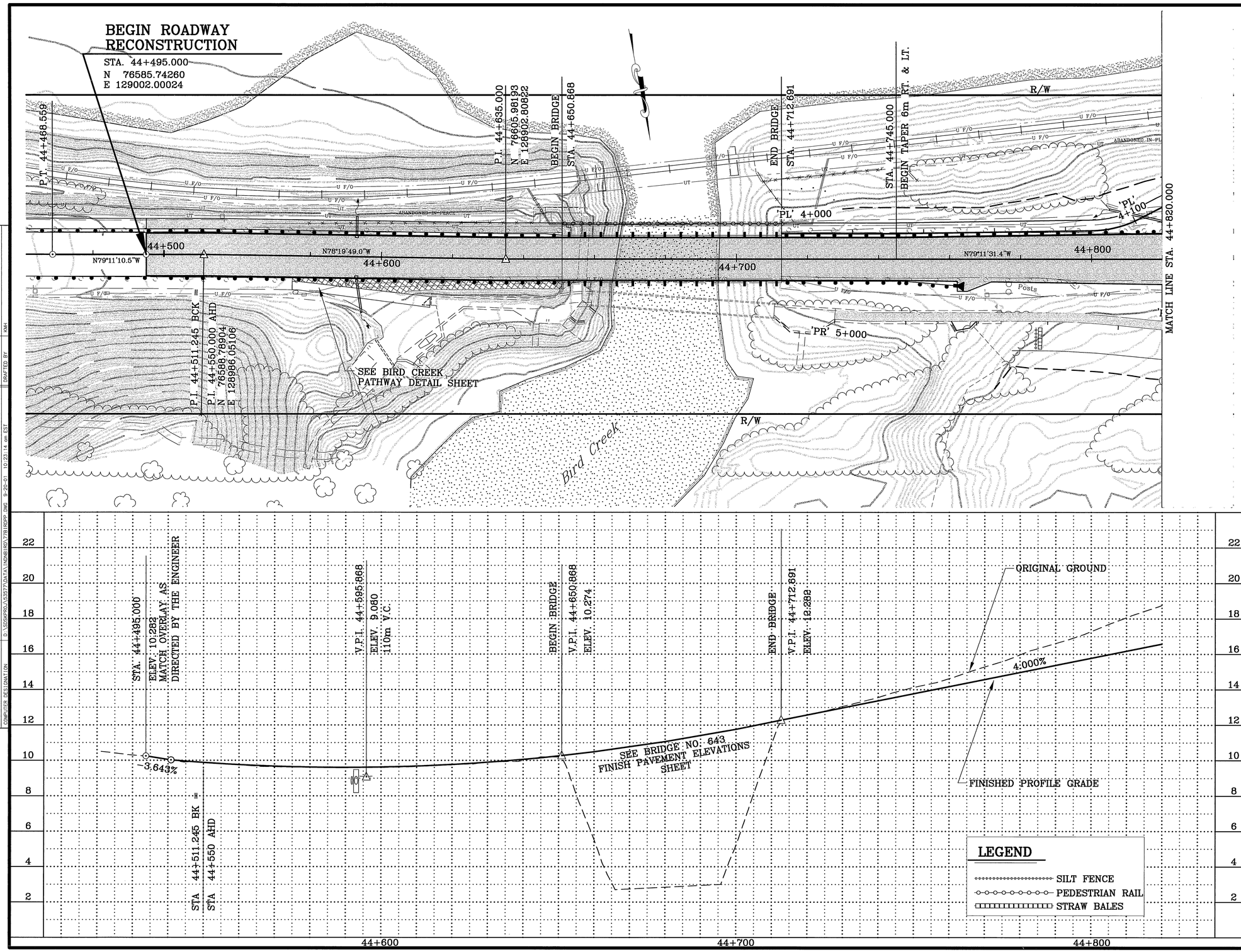
STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
6-17-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

OVERLAY
BIRD FLATS TO BIRD CREEK
PLAN SHEET

SPECIFICATIONS		
SCALE 1=1	AUTOCAD-KAREN-	DESIGNED BY
COMPUTER DESIGNATION	D:\SBSKPROJ\53577\DATA\NONBIRDV770LCL.DWG 9-27-01 8:20:16 am EST VIEW=	CHECKED BY
		DRAFTED BY KMH



SHEET NO.	TOTAL SHEETS
FCR1	FCR4
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

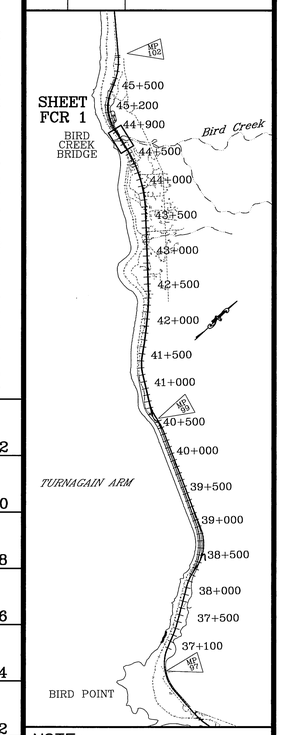
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

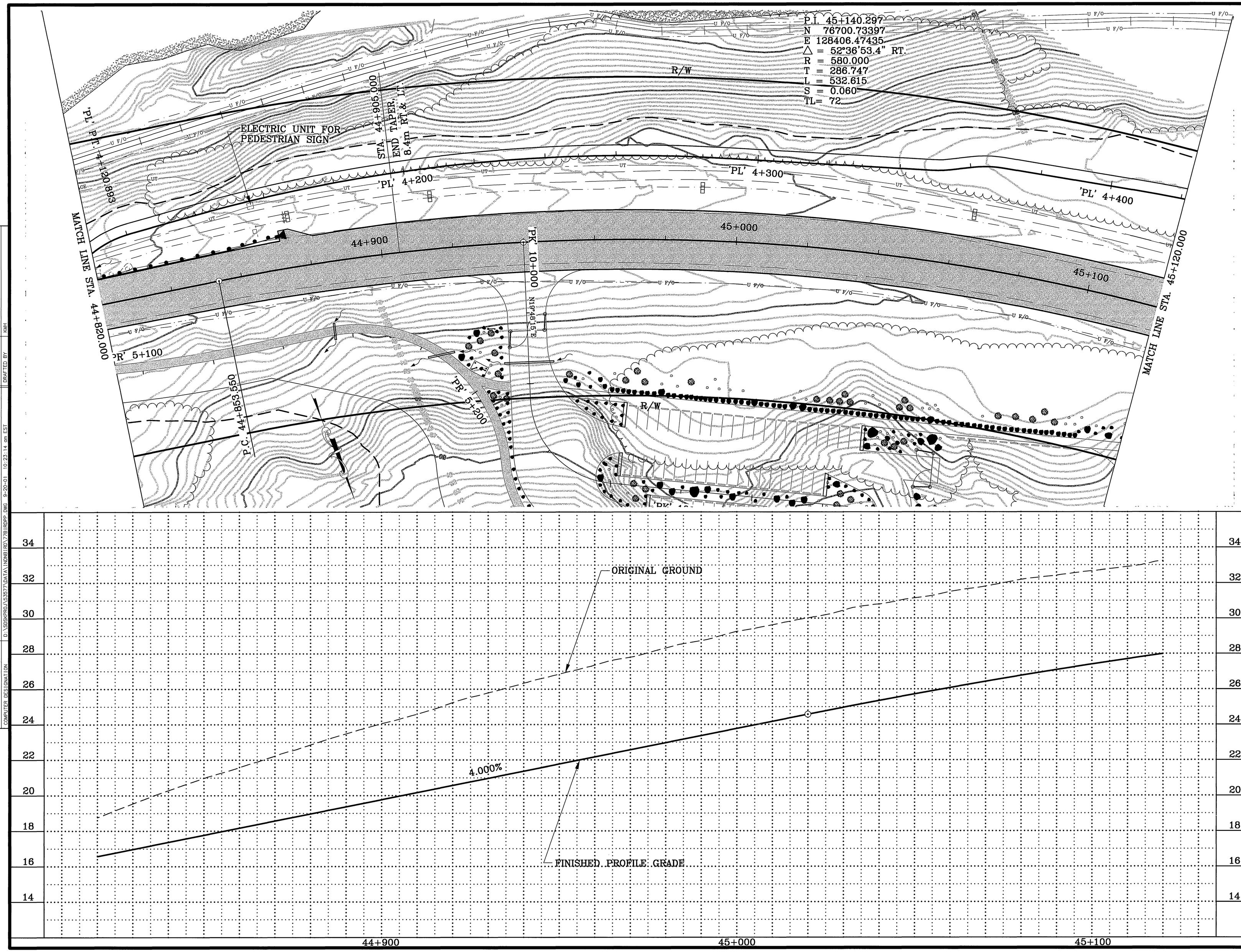
STATE OF ALASKA
JUDY J. DAUGHERTY
CE 6823
11-26-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY & RECREATIONAL IMPROVEMENTS

BIRD CREEK AREA
HIGHWAY
PLAN AND PROFILE

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-KAREN-
D:\SISSKRD\A3577\DATA\NOR8IRD\72B1RDRP.DWG 9-20-01 10:23:14 cm EST
VIEW=
DESIGNED BY
CHECKED BY
DRAFTED BY
KMH



SHEET NO.	TOTAL SHEETS
FCR2	FCR4
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

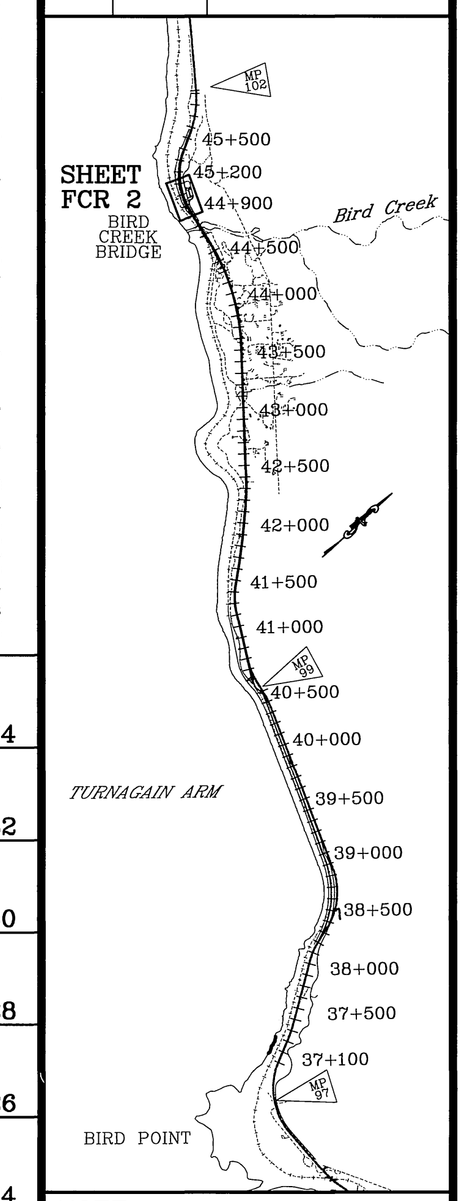
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

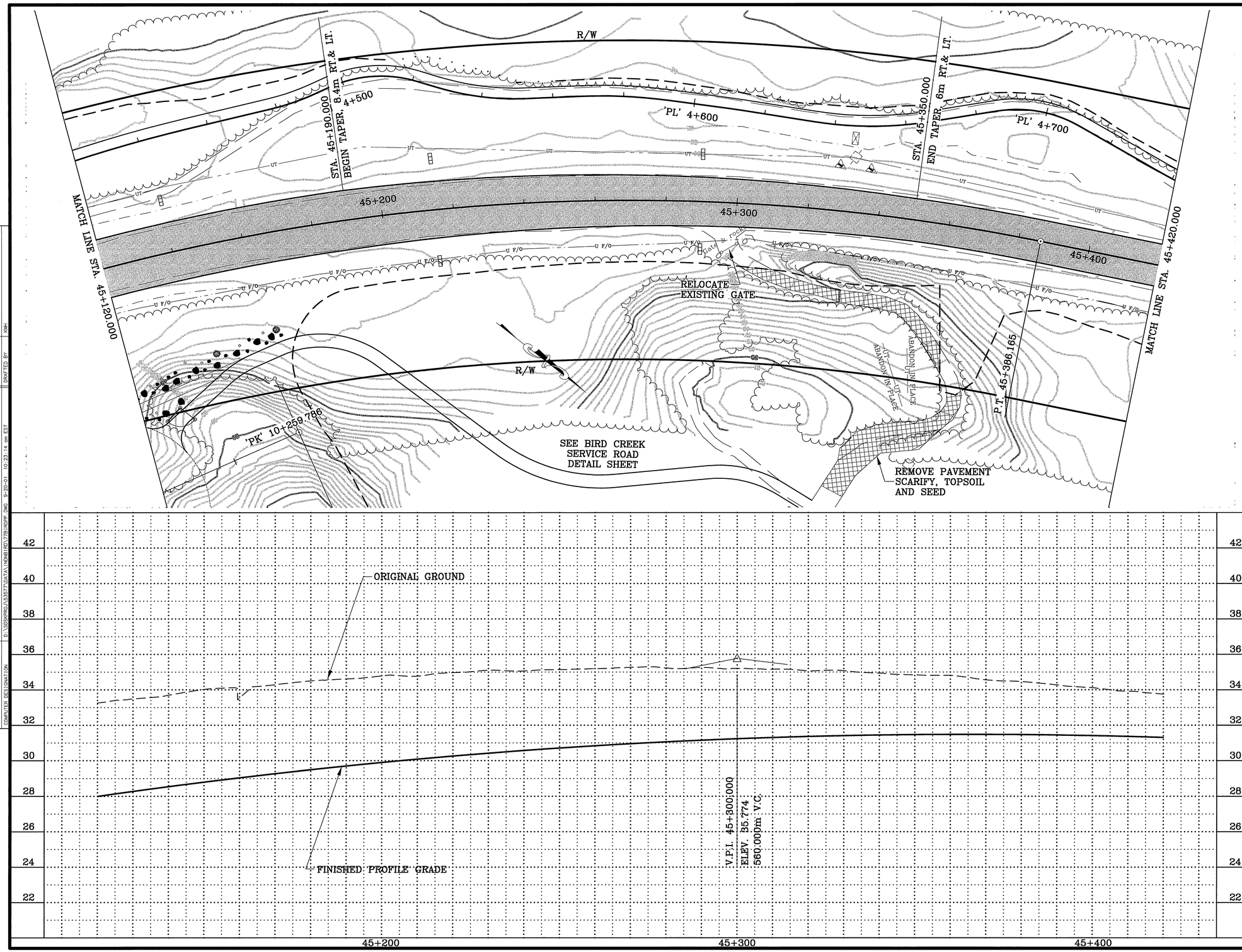
STATE OF ALASKA
JUDY J. DOUGHERTY
CE 8823
11-26-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY & RECREATIONAL IMPROVEMENTS

BIRD CREEK AREA
HIGHWAY
PLAN AND PROFILE

DESIGNED BY	
CHECKED BY	
DRAFTED BY	KAM
VIEW=	
10-23-14 cm FST	
9-20-01	
D:\SDSPROJ\3577\DATA\NOMBIRD\7BIRDPP.DWG	
AUTOCAD-KAREN-	
D:\SDSPROJ\3577\DATA\NOMBIRD\7BIRDPP.DWG	
SPECIFICATIONS	
SCALE 1=1	
COMPUTER DESIGNATION	



SHEET NO.	TOTAL SHEETS
FCR3	FCR4
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

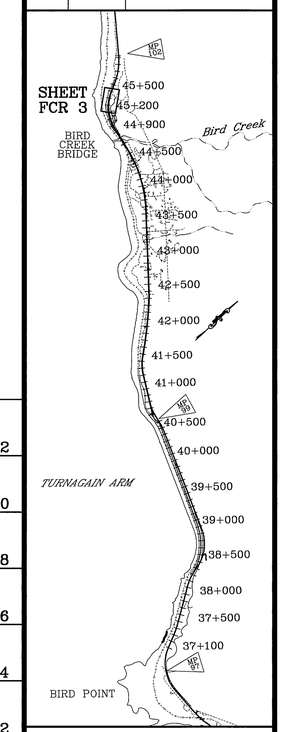
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS
UNLESS OTHERWISE NOTED.

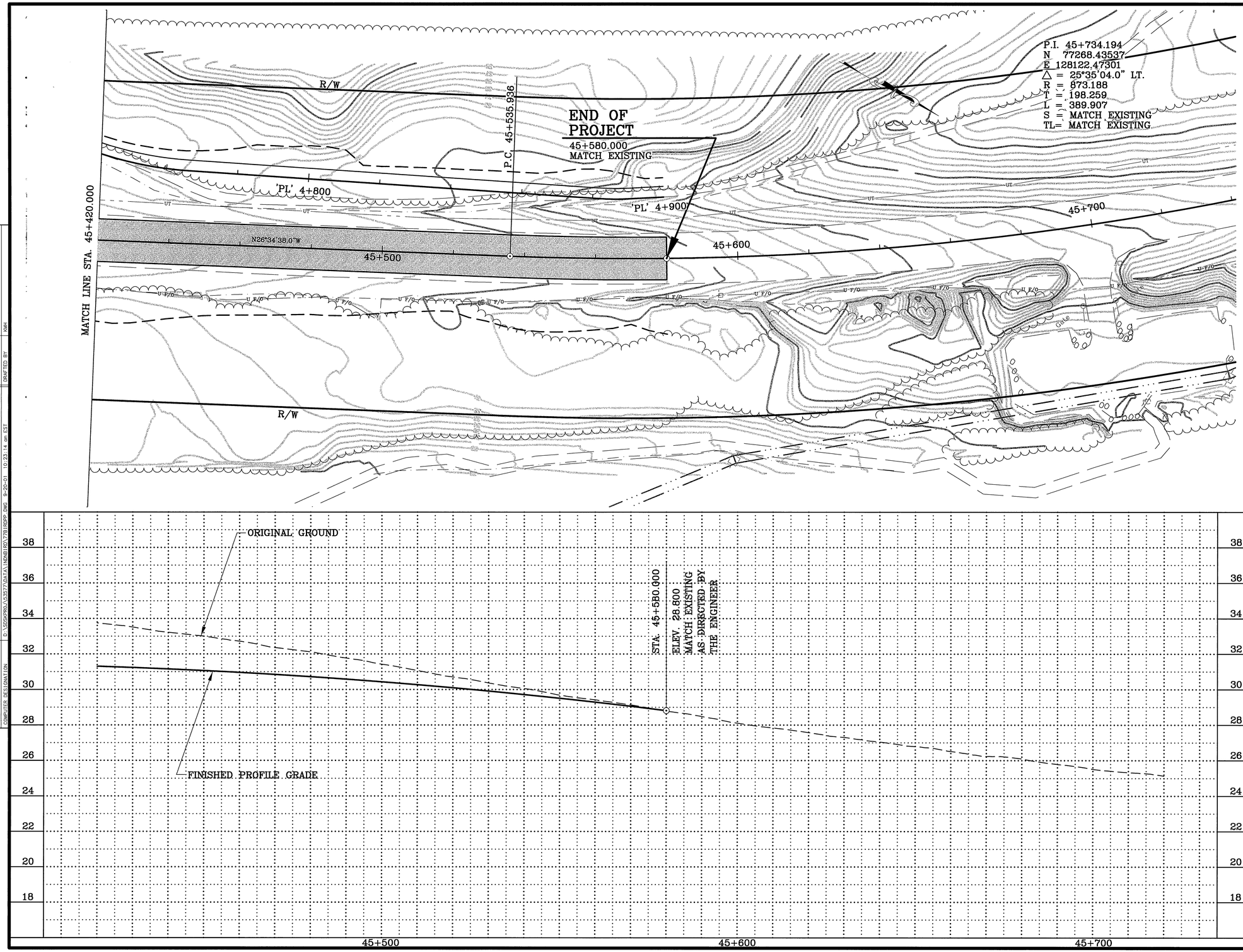
STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
11-26-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

BIRD CREEK AREA
HIGHWAY
PLAN AND PROFILE

SPECIFICATIONS
SCALE 1=1
COMPUTER RESIGNATION
AUTOCAD-KAREN-
B:\SBSKPRO\S577\DATA\NOMBIRD\7BIRDPP.DWG 9-20-01 10:23:14 cm EST
VIEW=
DESIGNED BY
CHECKED BY
DRAFTED BY
KMH



SHEET NO.	TOTAL SHEETS
FCR4	FCR4
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

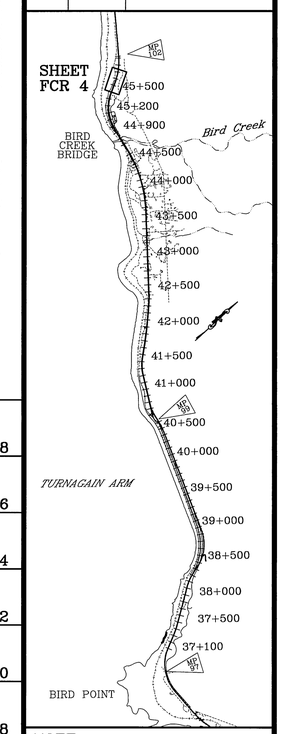
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

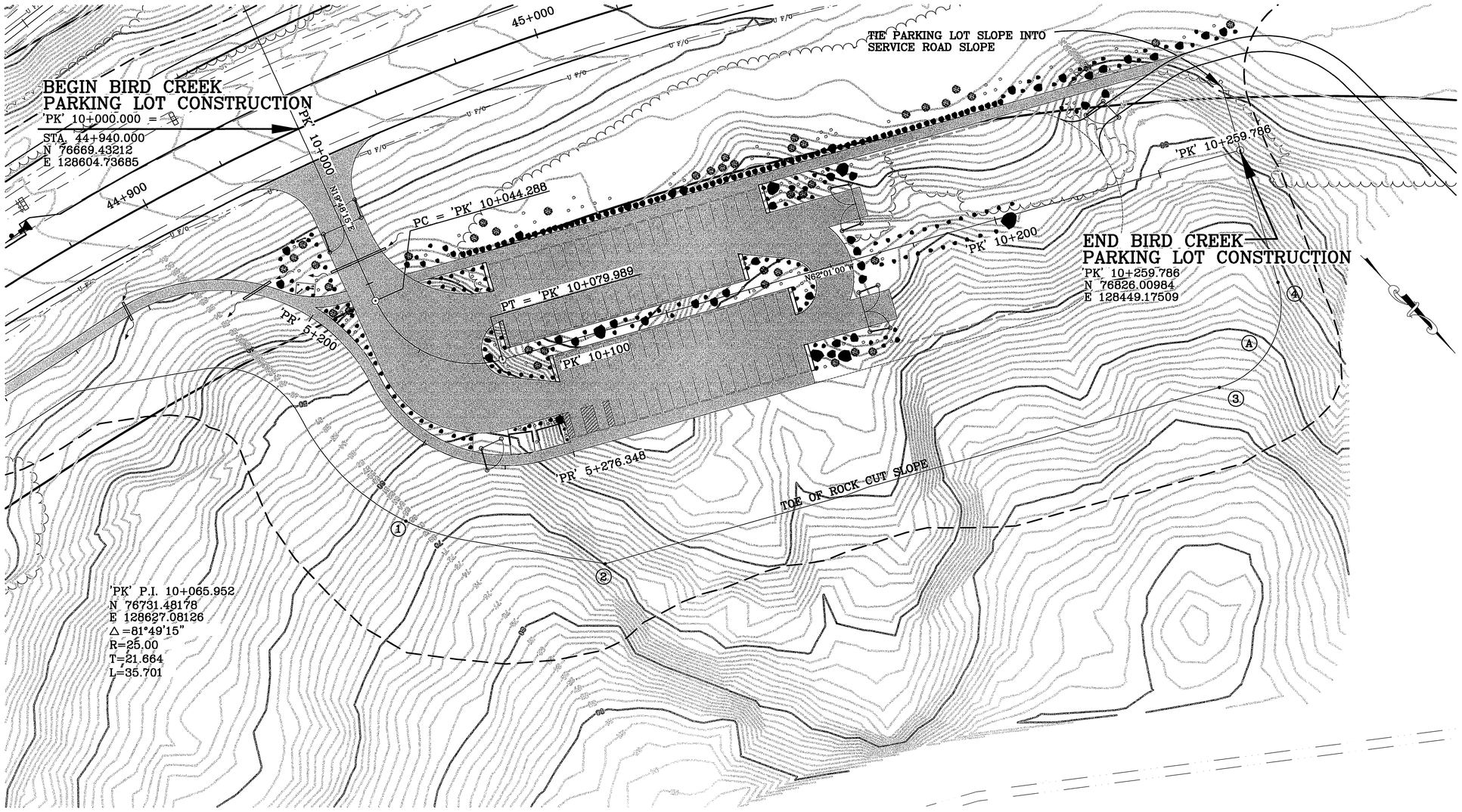
STATE OF ALASKA
JUDY J. DOUGHERTY
CE 8823
11-26-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY & RECREATIONAL IMPROVEMENTS

BIRD CREEK AREA
HIGHWAY
PLAN AND PROFILE

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-KAREN-
D:\S95GPRO\A3577\DATA\NDNBIRD\7B1RDPP.DWG 9-20-01
VIEW=
10:23:14 cm EST
DESIGNED BY
CHECKED BY
DRAFTED BY
KMH



OFFSET POINT TABLE		
POINT	STATION	OFFSET
1	'PK' 10+072.462	41.5 RT.
2	'PK' 10+090.000	52.8 RT.
3	'PK' 10+239.786	52.4 RT.
4	'PK' 10+259.786	32.4 RT.

RADIUS TABLE			
POINT	STATION	OFFSET	RADIUS
A	'PK' 10+239.786	32.4 RT.	20.0

SHEET NO.	TOTAL SHEETS
FPK1	FPK2
STATE	YEAR
ALASKA	2002

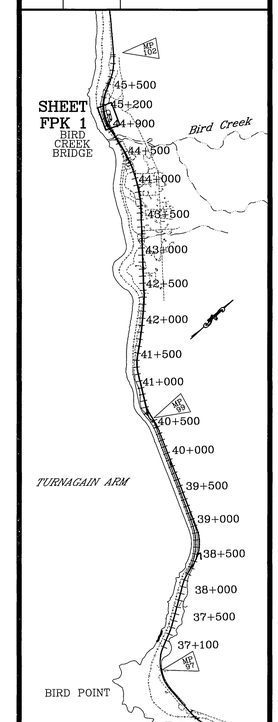
PROJECT DESIGNATION
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS
UNLESS OTHERWISE NOTED.

STATE OF ALASKA
JUDY J. DOUGHERTY
CE 8823
11-26-02
REGISTERED PROFESSIONAL ENGINEER

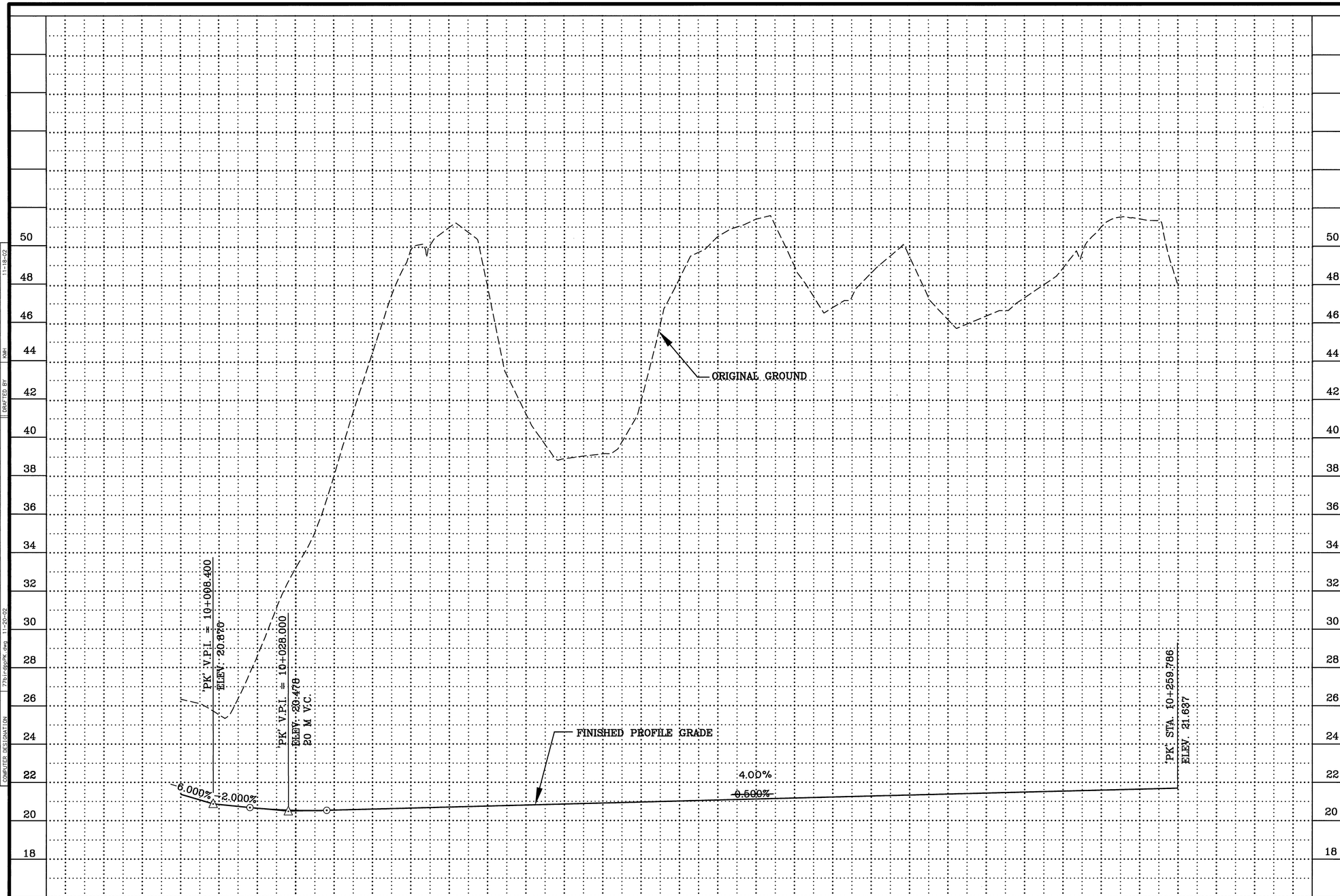
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

BIRD CREEK PARKING LOT
PLAN

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-KOREN-
53577\DATA\27b1rdpplPk.dwg

VIEW#
DESIGNED BY
CHECKED BY
DRAFTED BY
KGM
11-18-02



SHEET NO.	TOTAL SHEETS
FPK2	FPK2
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

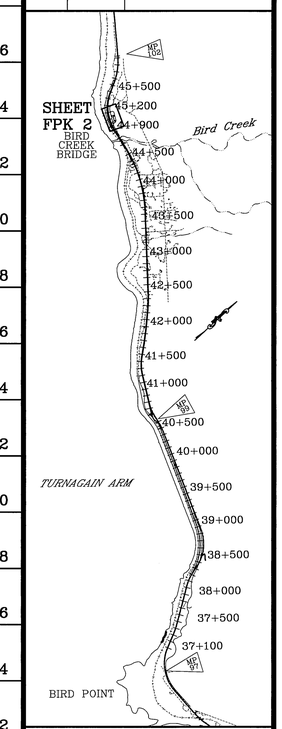
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

STATE OF ALASKA
49TH
AUDY F. DOUGHERTY
CE 8823
11-26-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

BIRD CREEK PARKING LOT
PROFILE

DESIGNED BY
CHECKED BY
DRAFTED BY KMH 11-18-02

VIEW=

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION 77birdppfk.dwg 11-20-02
AUTOCAD-KAREN-

SHEET NO.	TOTAL SHEETS
FPL1	FPL4
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

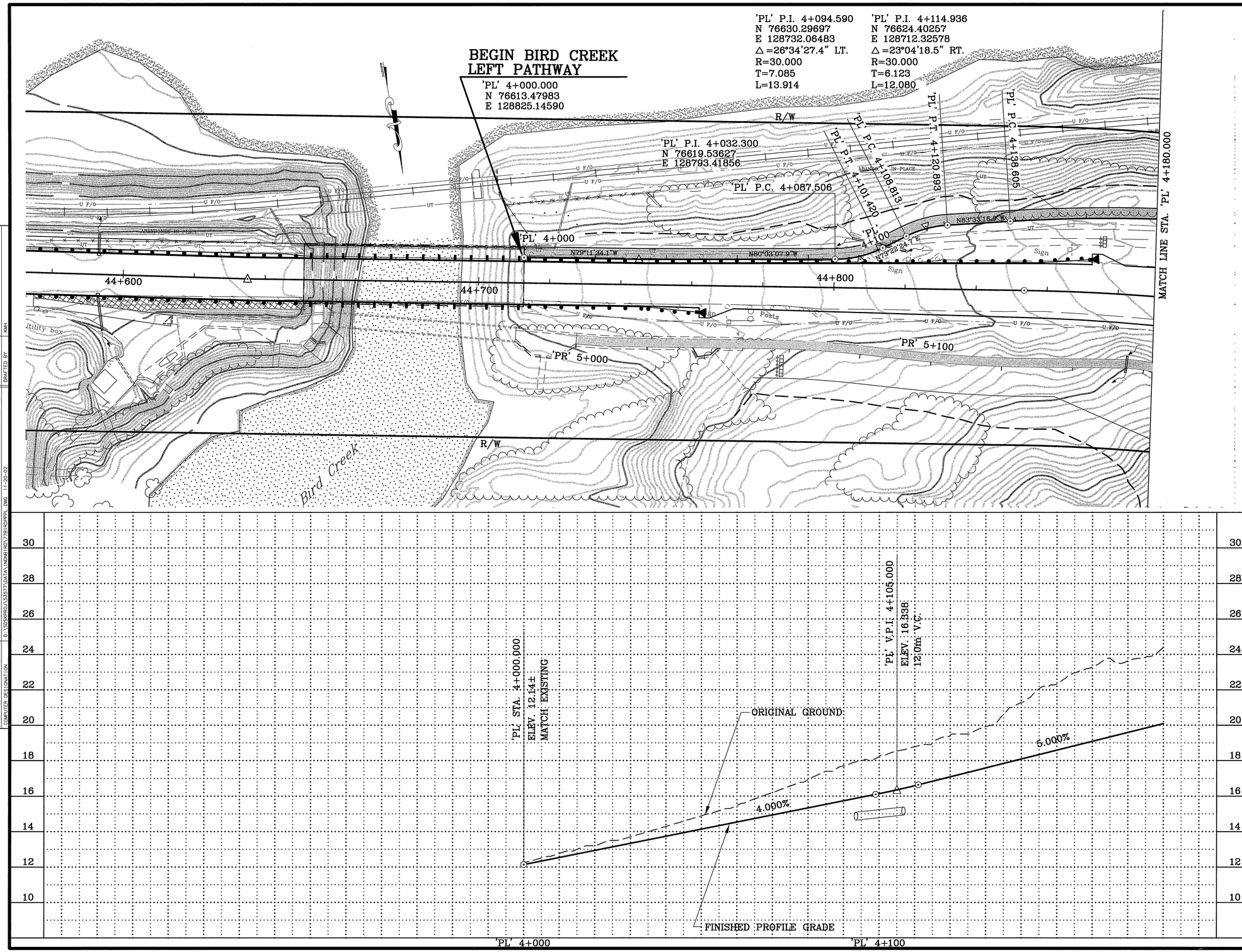
NH-0A3-1(28)

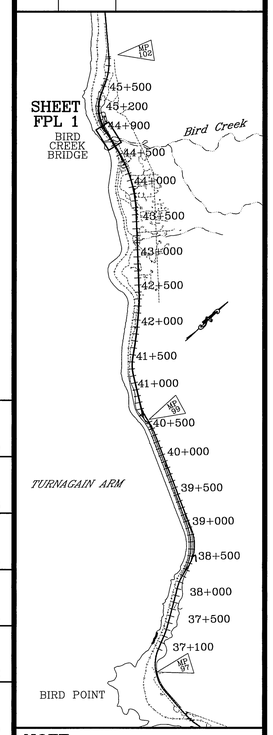
ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION





NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

STATE OF ALASKA
JUDY J. DOUGHERTY
CE 8823
11-26-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY & RECREATIONAL IMPROVEMENTS

BIRD CREEK LEFT PATHWAY
PLAN AND PROFILE

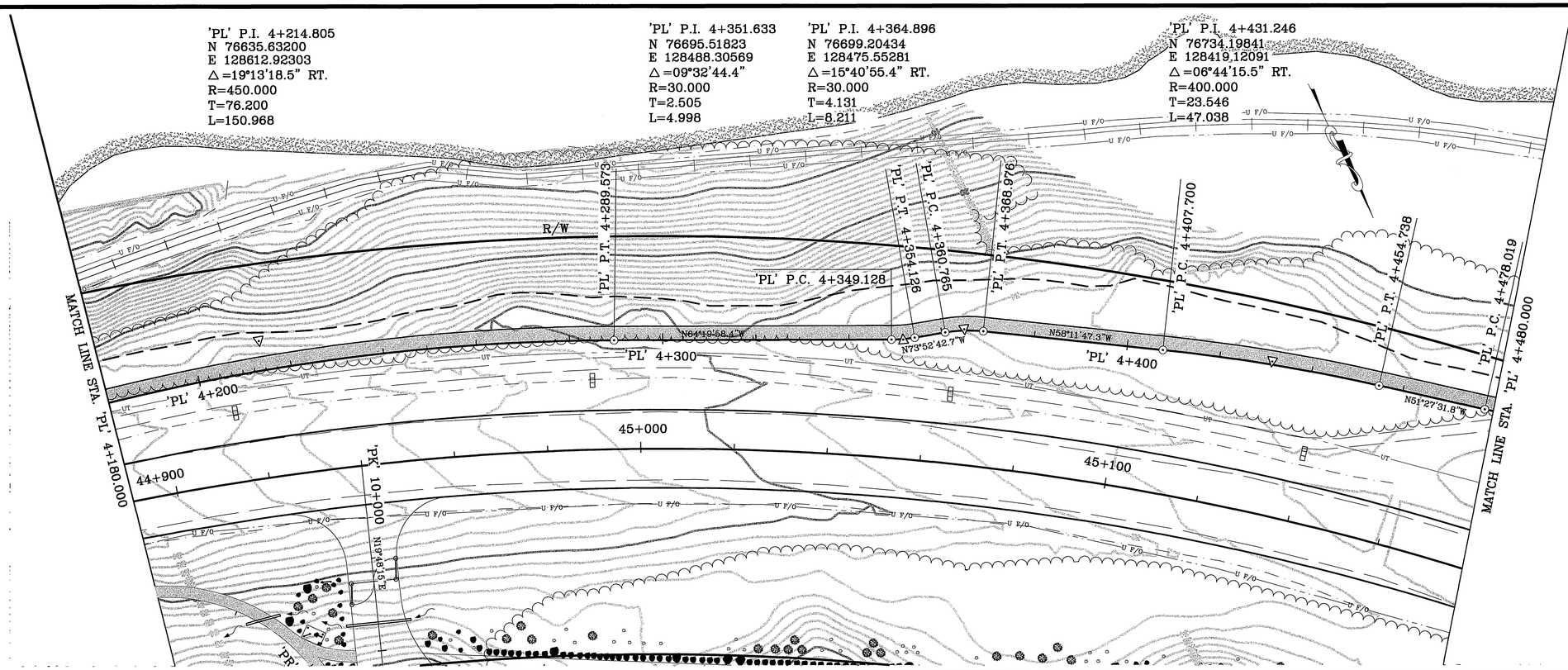
SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-KAREN
D:\SDSKPROJ\A3577\DATA\NONBIRD\72B1RDPPL.DWG 11-20-02
VIEW#
DESIGNED BY
CHECKED BY
DRAFTED BY KAM

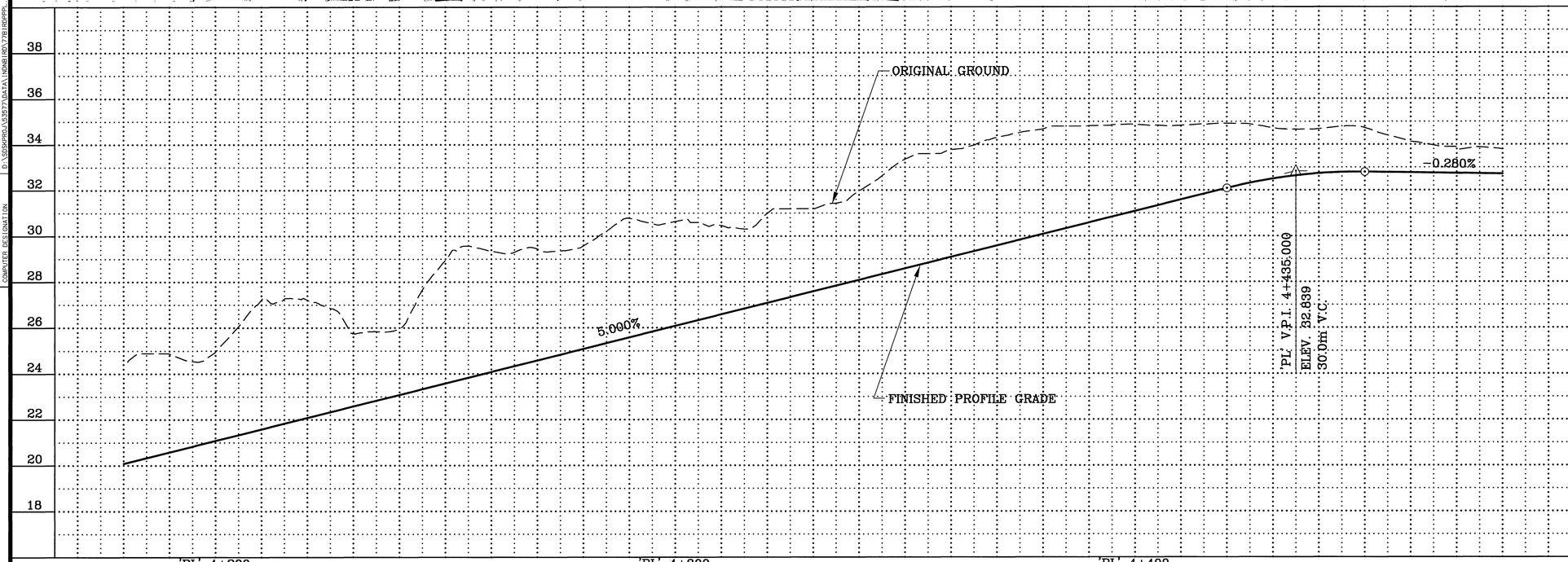
'PL' P.I. 4+214.805
N 76635.63200
E 128612.92303
Δ =19°13'18.5" RT.
R=450.000
T=76.200
L=150.968

'PL' P.I. 4+351.633
N 76695.51823
E 128488.30569
Δ =09°32'44.4"
R=30.000
T=2.505
L=4.998

'PL' P.I. 4+364.896
N 76699.20434
E 128475.55281
Δ =15°40'55.4" RT.
R=30.000
T=4.131
L=8.211

'PL' P.I. 4+431.246
N 76734.19841
E 128419.12091
Δ =06°44'15.5" RT.
R=400.000
T=23.546
L=47.038





SHEET NO.	TOTAL SHEETS
FPL2	FPL4
STATE	YEAR
ALASKA	2002

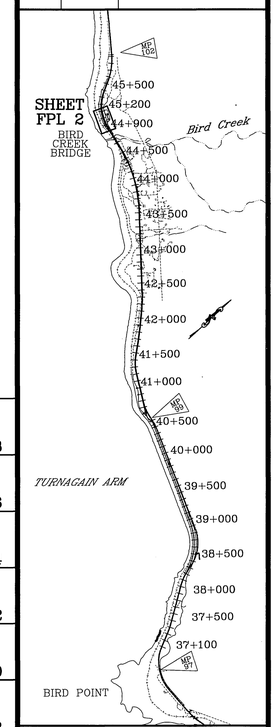
PROJECT DESIGNATION
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

STATE OF ALASKA
JUDY J. DOUGHERTY
CE 8823
11-26-97
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

BIRD CREEK LEFT PATHWAY
PLAN AND PROFILE

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-KAREN-
D:\SDSKPROJ\A3573\DATA\NONHIRD\72BIRDPPL.DWG 11-18-02
VIEW=
DESIGNED BY
CHECKED BY
DRAFTED BY KMH

'PL' P.I. 4+484.813
N 76767.60879
E 128377.18022
Δ=11°05'14.1" LT.
R=70.000
T=6.794
L=13.546

'PL' P.I. 4+509.175
N 76778.85991
E 128355.52451
Δ=41°13'29.3" RT.
R=35.000
T=13.164
L=25.183

'PL' P.I. 4+539.872
N 76808.52321
E 128343.94658
Δ=19°00'31.9" LT.
R=75.000
T=12.557
L=24.883

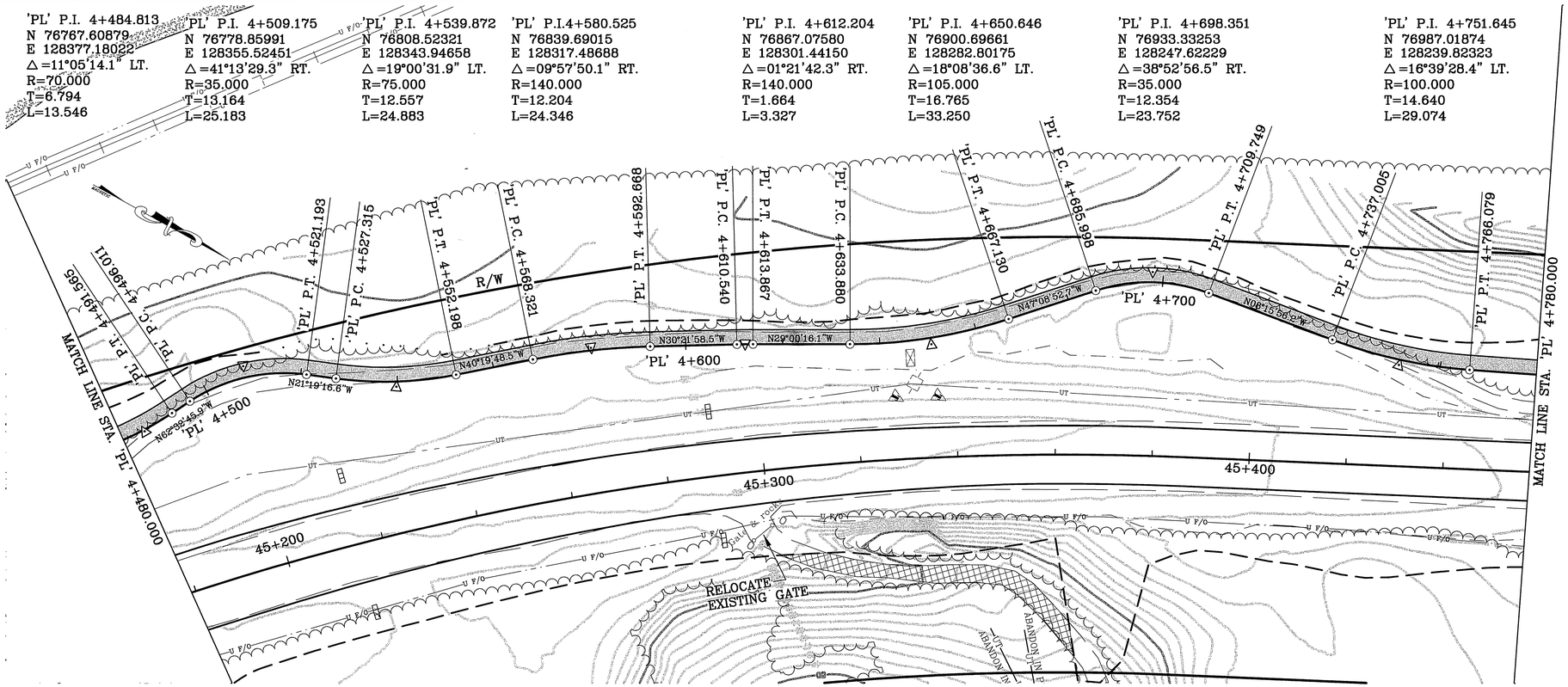
'PL' P.I.4+580.525
N 76839.69015
E 128317.48688
Δ=09°57'50.1" RT.
R=140.000
T=12.204
L=24.346

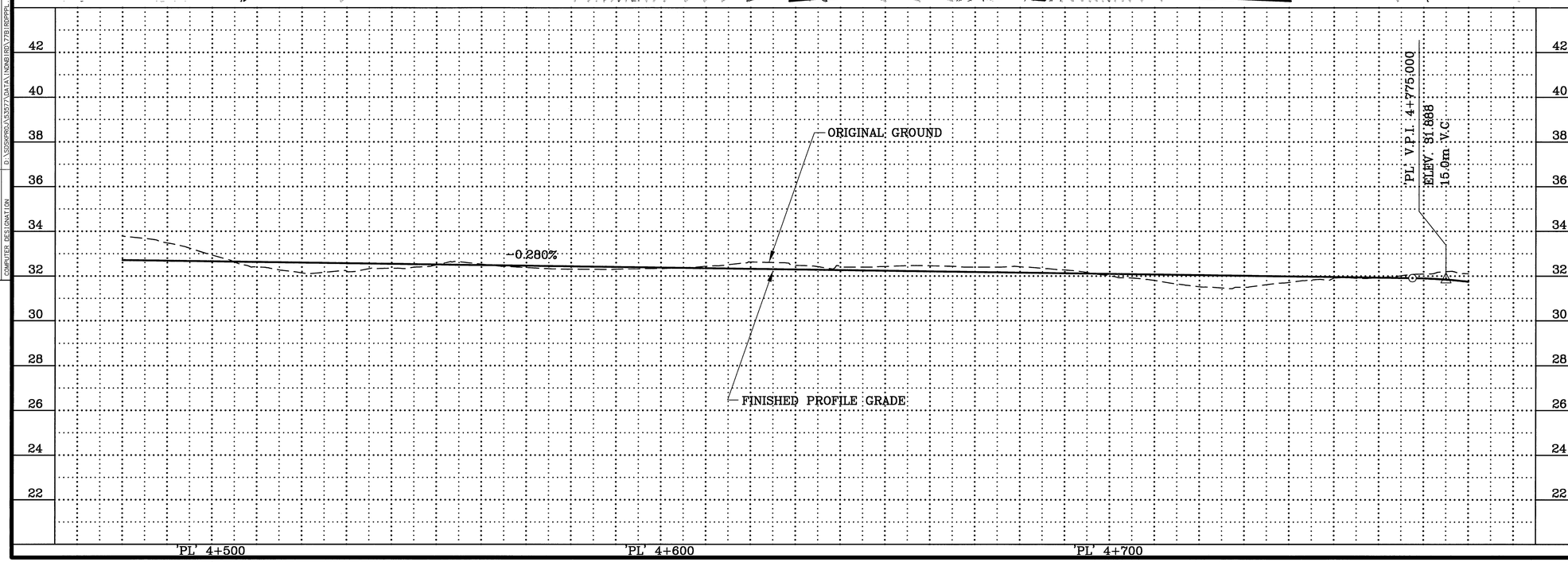
'PL' P.I. 4+612.204
N 76867.07580
E 128301.44150
Δ=01°21'42.3" RT.
R=140.000
T=1.664
L=3.327

'PL' P.I. 4+650.646
N 76900.69661
E 128282.80175
Δ=18°08'36.6" LT.
R=105.000
T=16.765
L=33.250

'PL' P.I. 4+698.351
N 76933.33253
E 128247.62229
Δ=38°52'56.5" RT.
R=35.000
T=12.354
L=23.752

'PL' P.I. 4+751.645
N 76987.01874
E 128239.82323
Δ=16°39'28.4" LT.
R=100.000
T=14.640
L=29.074





SHEET NO.	TOTAL SHEETS
FPL3	FPL4
STATE	YEAR
ALASKA	2002

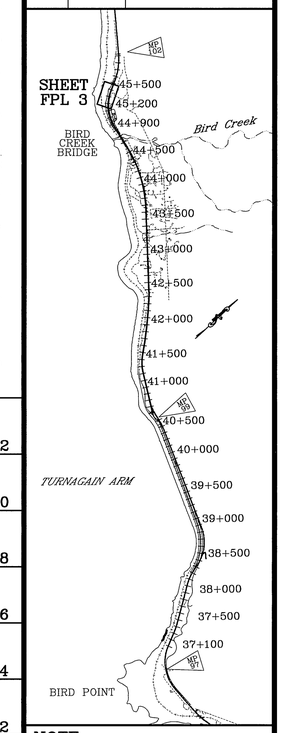
PROJECT DESIGNATION
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



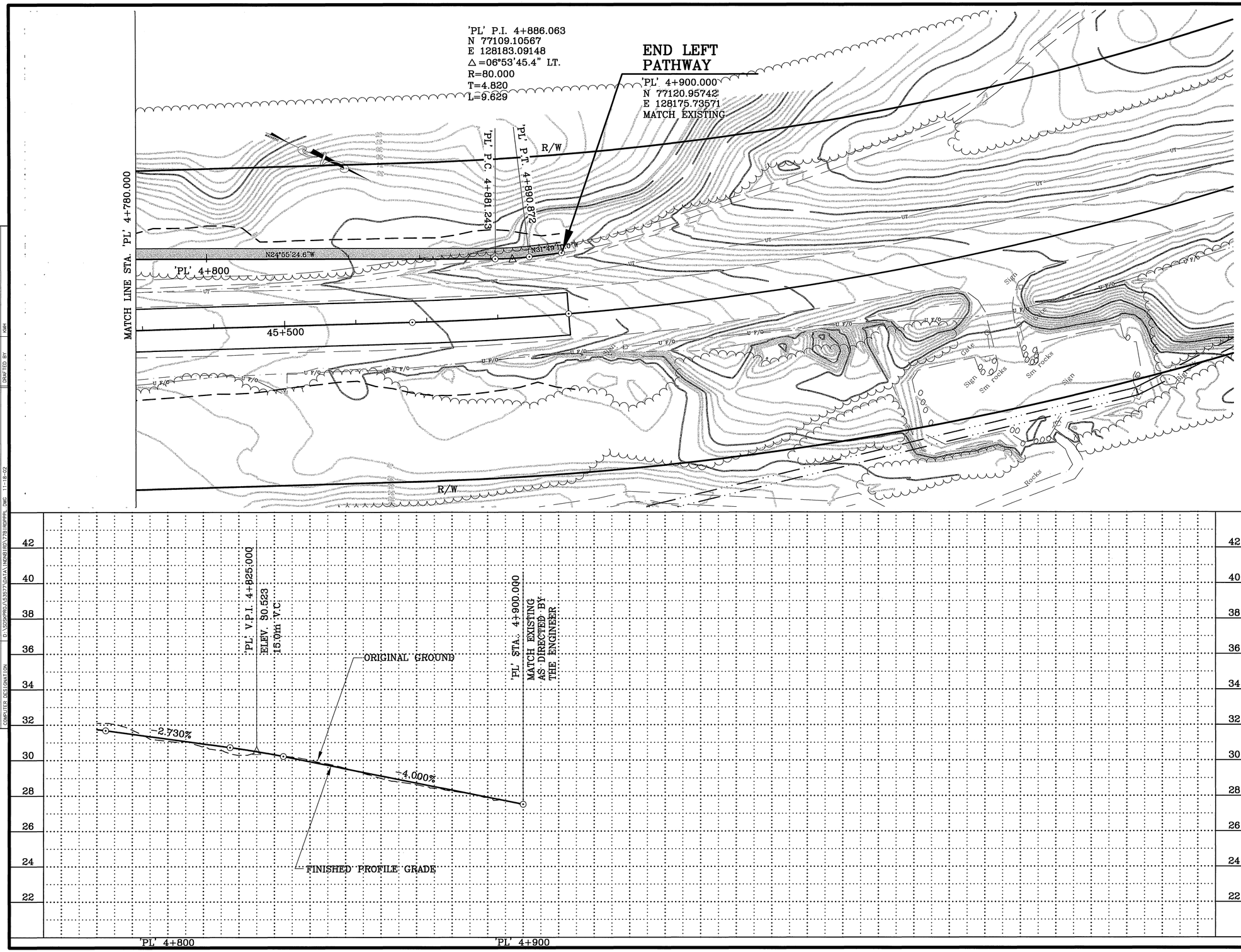
NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

STATE OF ALASKA
JUDY J. DOUGHERTY
CE 8823
1-26-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY & RECREATIONAL IMPROVEMENTS
BIRD CREEK LEFT PATHWAY
PLAN AND PROFILE

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-KAREN
D:\S3596R0\A3577\DATA\NONBIRD\79318DPPL.DWG
VIEW
DESIGNED BY
CHECKED BY
DRAFTED BY
KMH
11-18-02



SHEET NO.	TOTAL SHEETS
FPL4	FPL4
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

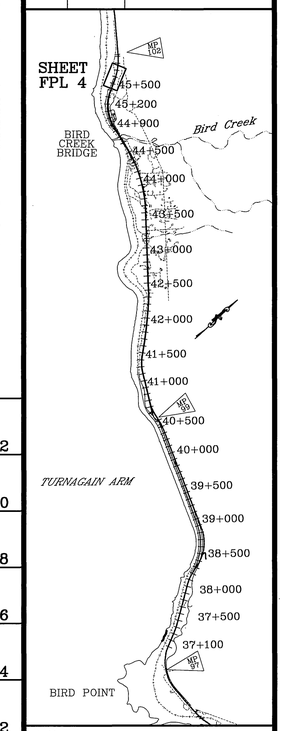
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

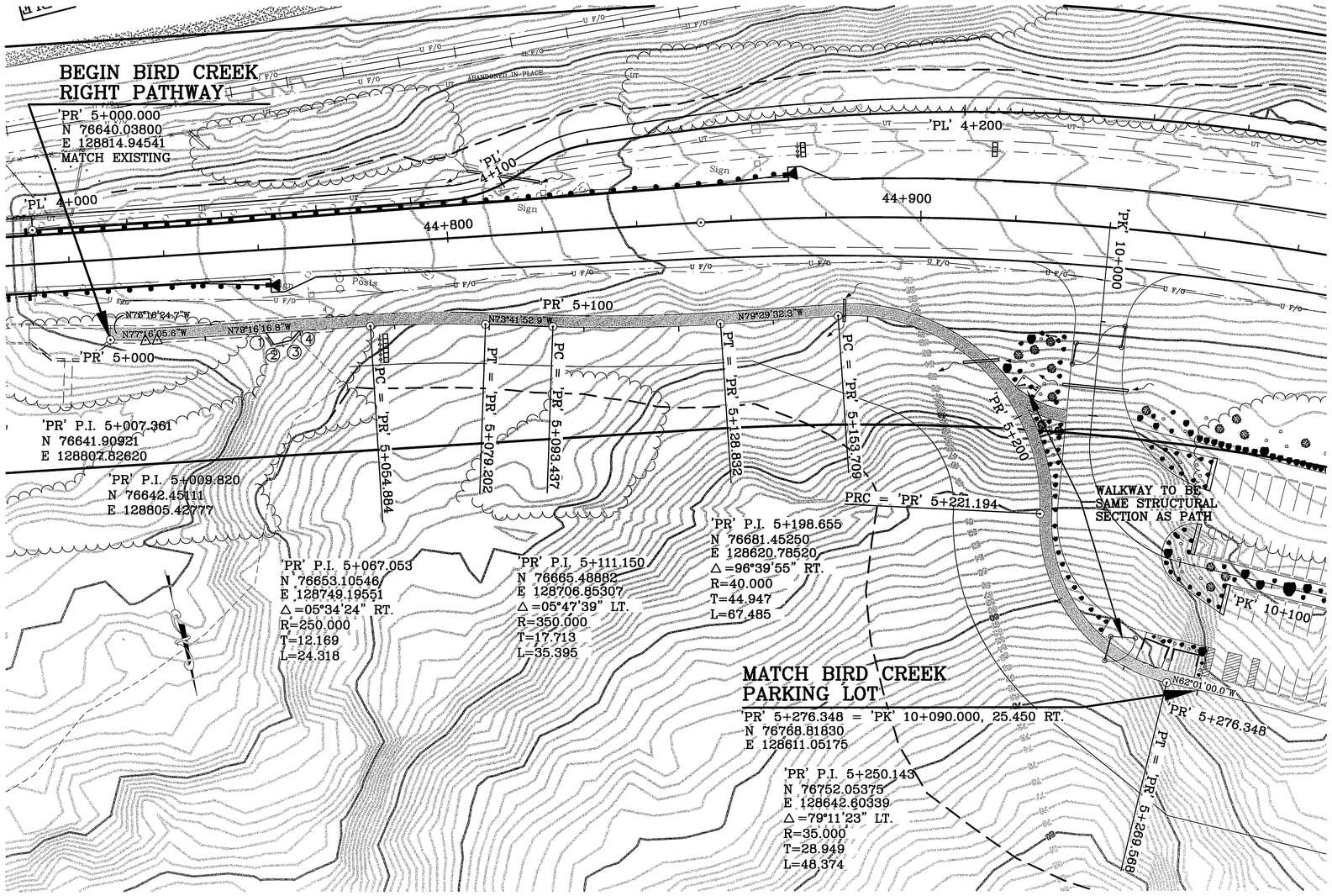
STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
11-26-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

BIRD CREEK LEFT PATHWAY
PLAN AND PROFILE

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-KAREN
D:\SDSKPROJ\53173\DATA\NONBID\72B\RDPPL.DWG
VIEW#
DESIGNED BY
CHECKED BY
DRAFTED BY
KAM
11-18-02



RADIUS TABLE			
POINT	STATION	OFFSET	RADIUS
Ⓐ	'PR' 5+191.599	22.4 LT.	20.0

PAVEMENT OFFSET TABLE		
POINT	STATION	OFFSET
①	'PR' 5+032.833	0.0 RT.
②	'PR' 5+034.330	2.6 RT.
③	'PR' 5+037.979	1.9 RT.
④	'PR' 5+039.898	0.0 RT.

SHEET NO.	TOTAL SHEETS
FPR1	FPR2
STATE	YEAR
ALASKA	2002

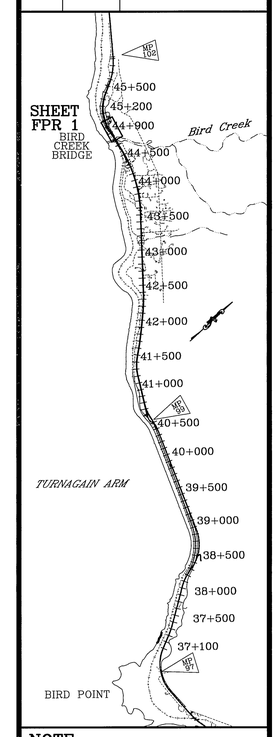
PROJECT DESIGNATION
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

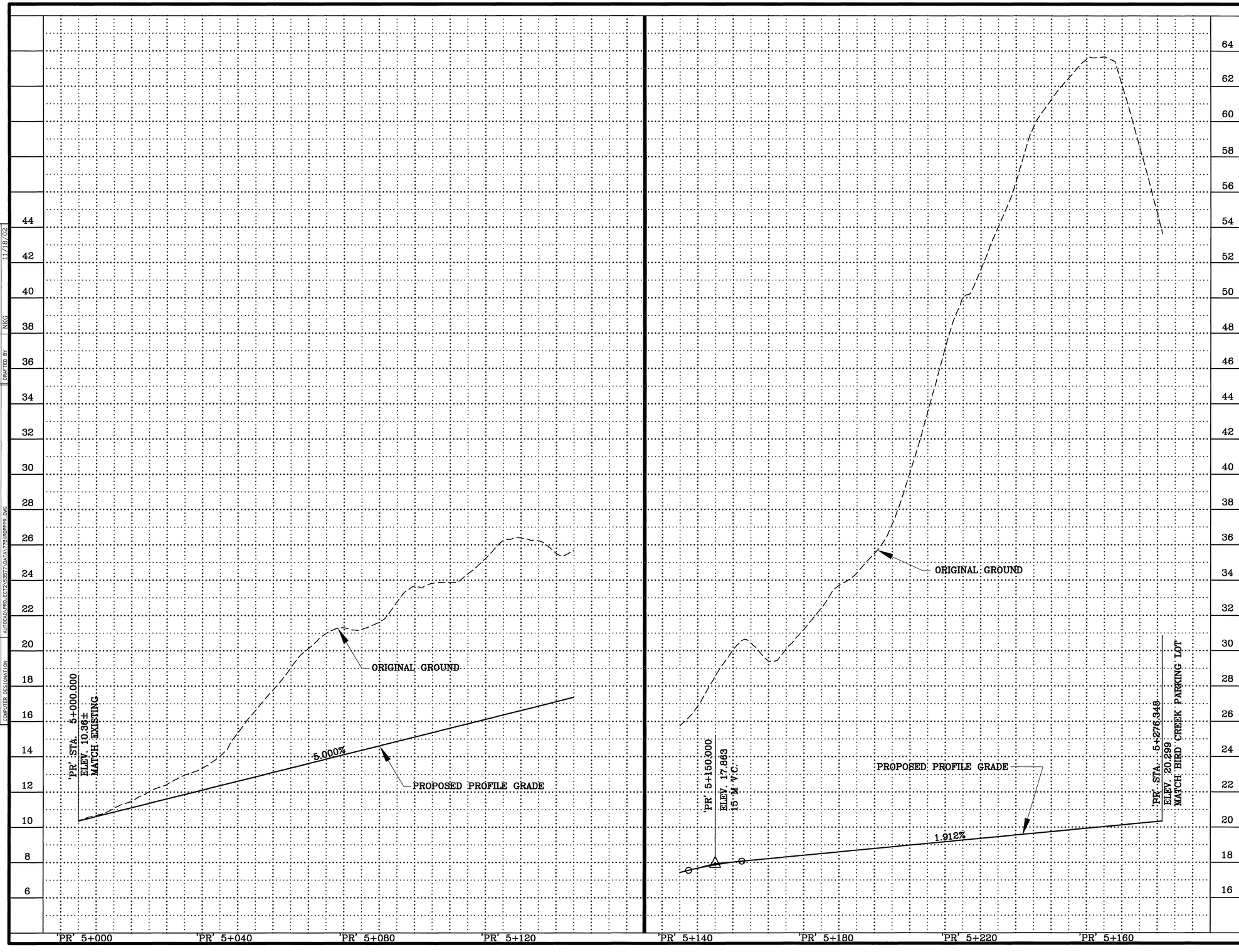
STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
11-26-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY & RECREATIONAL IMPROVEMENTS

BIRD CREEK RIGHT PATHWAY PLAN

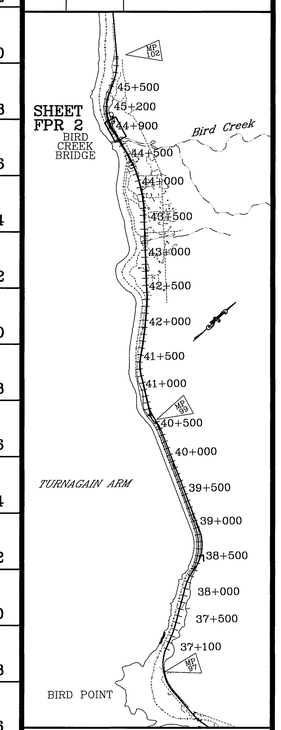
SPECIFICATIONS		
SCALE 1=1	AUTOCAD-NANDY	
COMPUTER DESIGNATION	AUTOCAD\PROJECTS\A3357\V7B1BIRDPRR.DWG	
DESIGNED BY		
CHECKED BY		
DRAFTED BY	NKG	11/21/02
VIEW=		



SHEET NO.	TOTAL SHEETS
FPR2	FPR2
STATE	YEAR
ALASKA	2002
PROJECT DESIGNATION	
NH-0A3-1(28)	
ADDENDUM NO.	
ATTACHMENT NO.	

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
11-26-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

BIRD CREEK RIGHT PATHWAY
PROFILE

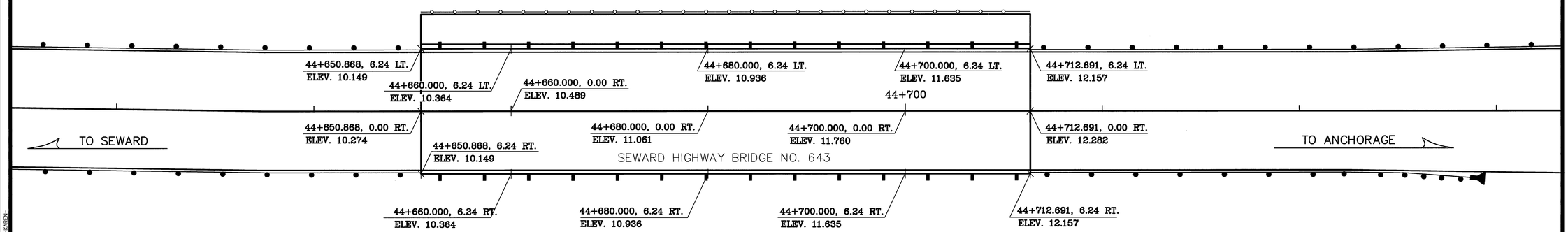
DESIGNED BY
CHECKED BY
DRAFTED BY NKG 11/18/02

VIEW#

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-NANCY
AUTOCAD\PROJECT2\A3537A\DATA\7BIRDPPR.DWG

REVISIONS		
No.	DATE	DESCRIPTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0A3-1(28)	2002	G1	G1



BRIDGE NO. 643 FINISH PAVEMENT ELEVATIONS

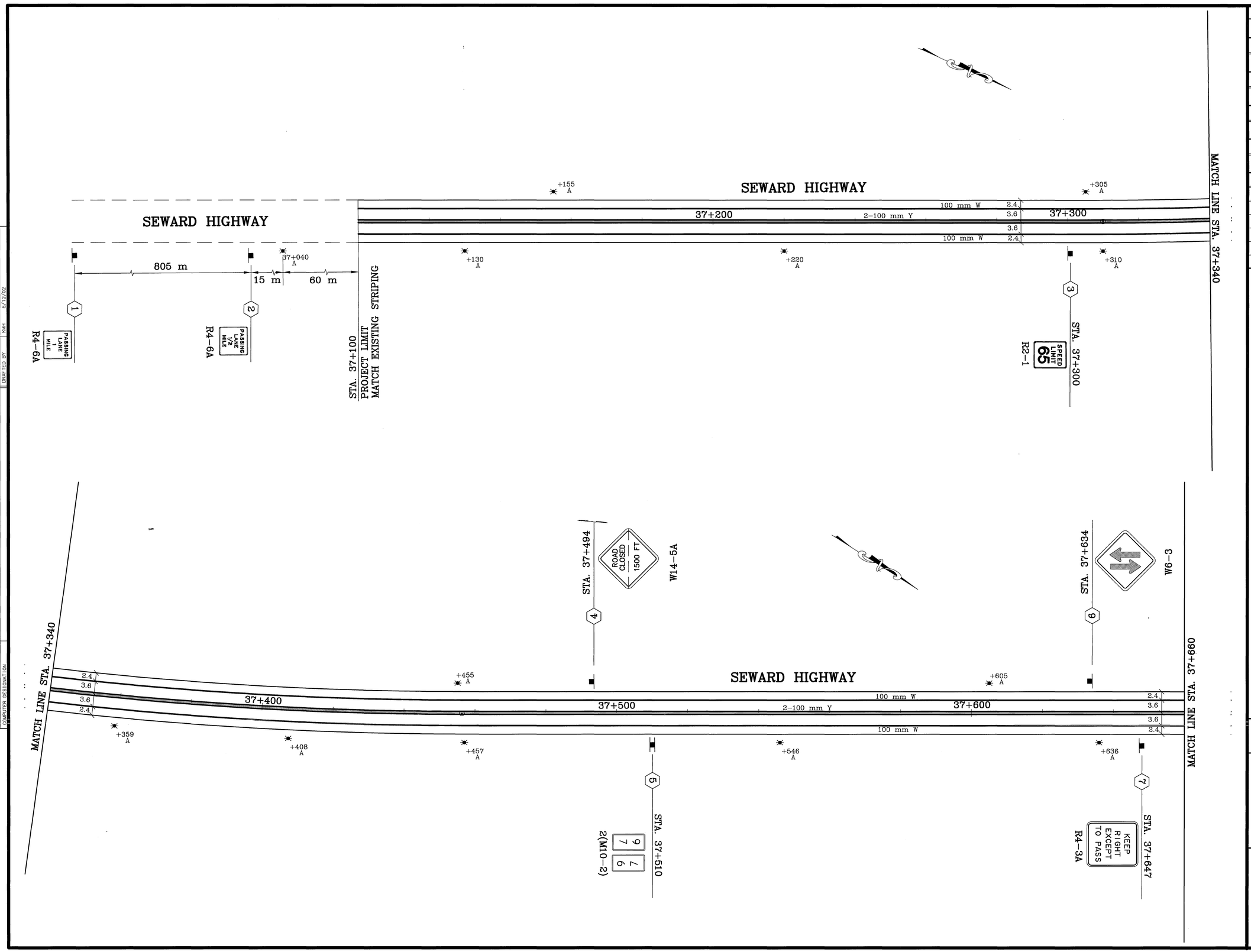
STATE OF ALASKA
JUDY J. DOUGHERTY
CE 8823
11-22-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

BRIDGE NO. 643
FINISH PAVEMENT ELEVATIONS

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
D:\SESKFROA\53677\DATA\NONBRID\77GRADE.DWG 11/13/02
AUTOCAD-KAREN-
VIEW=
DESIGNED BY
CHECKED BY
DRAFTED BY
KMH



SHEET NO.	TOTAL SHEETS
J1	J32
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION

NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

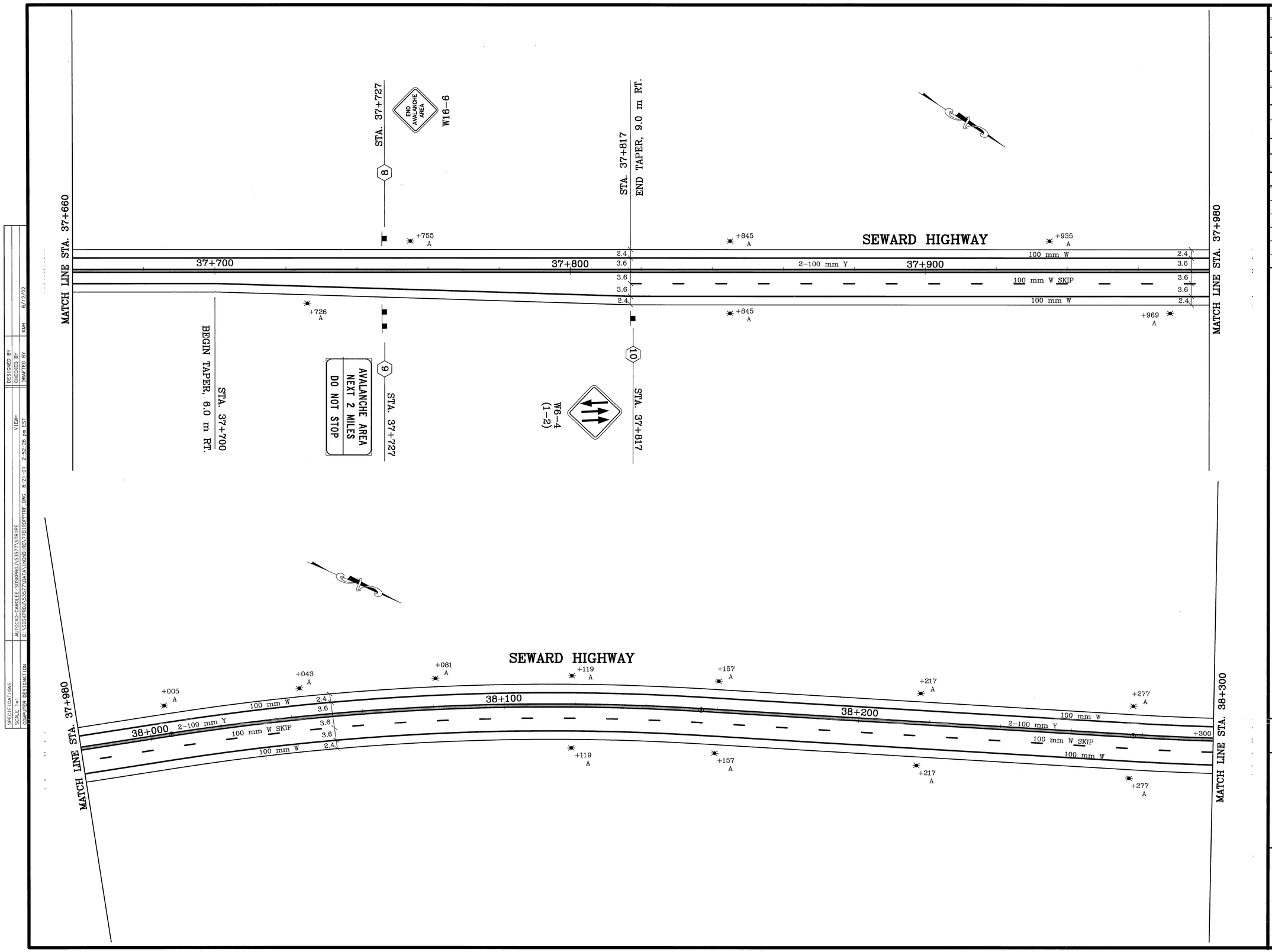
STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
6-17-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND RECREATIONAL IMPROVEMENTS

SIGNING AND STRIPING

SPECIFICATIONS
SCALE 1=1
DESIGNER DESIGNATION
AUTOCAD-CAROLEE : SDSKPROJ\53577\STRIPE
VIEW=
DESIGNED BY
CHECKED BY
DRAFTED BY
KMH
6/12/02



SHEET NO.	TOTAL SHEETS
J2	J32
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION

THIS SHEET REPLACED BY J2A
CHANGE ORDER NO. 6

NOTE:
DIMENSIONS ARE IN METERS
UNLESS OTHERWISE NOTED.

STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
6-17-02
REGISTERED PROFESSIONAL ENGINEER

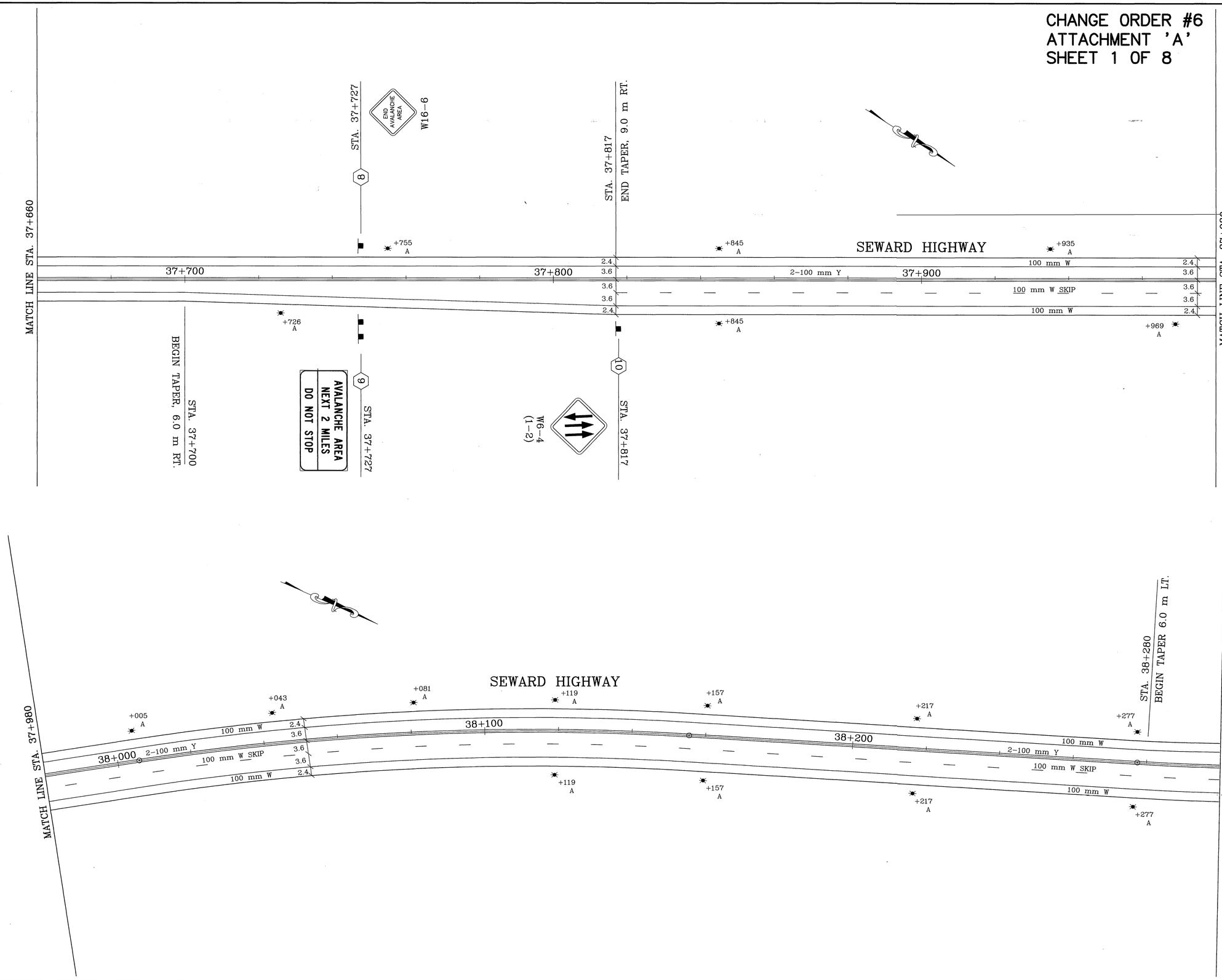
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

SIGNING AND STRIPING

SPECIFICATIONS
SCALE 1=1
COMPUTER GENERATION
AUTOCAD-CARDLEE: S:\SKPROJ\53577\STRIPE
D:\SKPROJ\53577\DATA\ROBERTSON\PATROPPTRF.DWG 8-21-01 2:52:26 pm EST
VIEW=
DESIGNED BY
CHECKED BY
DRAFTED BY KMH 6/12/02

CHANGE ORDER #6
ATTACHMENT 'A'
SHEET 1 OF 8



SHEET NO.	TOTAL SHEETS
J2A	J32
STATE	YEAR
ALASKA	2004

PROJECT DESIGNATION
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION

CHANGE ORDER NO. 6

NOTE:
DIMENSIONS ARE IN METERS
UNLESS OTHERWISE NOTED.

STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

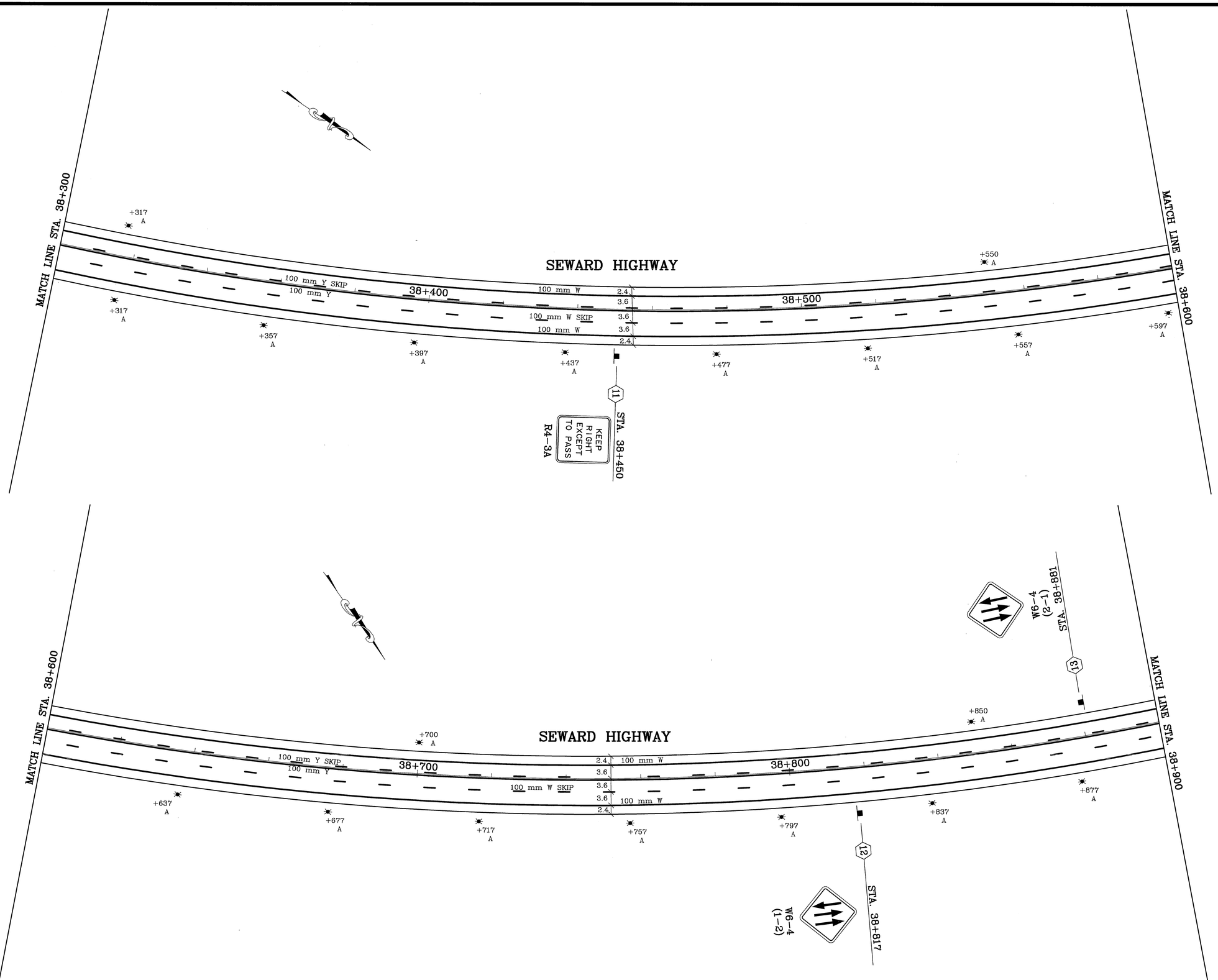
SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

SIGNING AND STRIPING

AS-BUILT 4/1/12

DESIGNED BY		
CHECKED BY		
DRAFTED BY	CJ	4/26/04
VIEW=2		

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD: CAROLEE 54443\STRIPE_CHANGEORDER



SHEET NO.	TOTAL SHEETS
J3	J32
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION

THIS SHEET REPLACED BY J3A
CHANGE ORDER NO. 6

NOTE:
DIMENSIONS ARE IN METERS
UNLESS OTHERWISE NOTED.

STATE OF ALASKA
JUDY J. DOUGHERTY
CE 8823
6-17-02
REGISTERED PROFESSIONAL ENGINEER

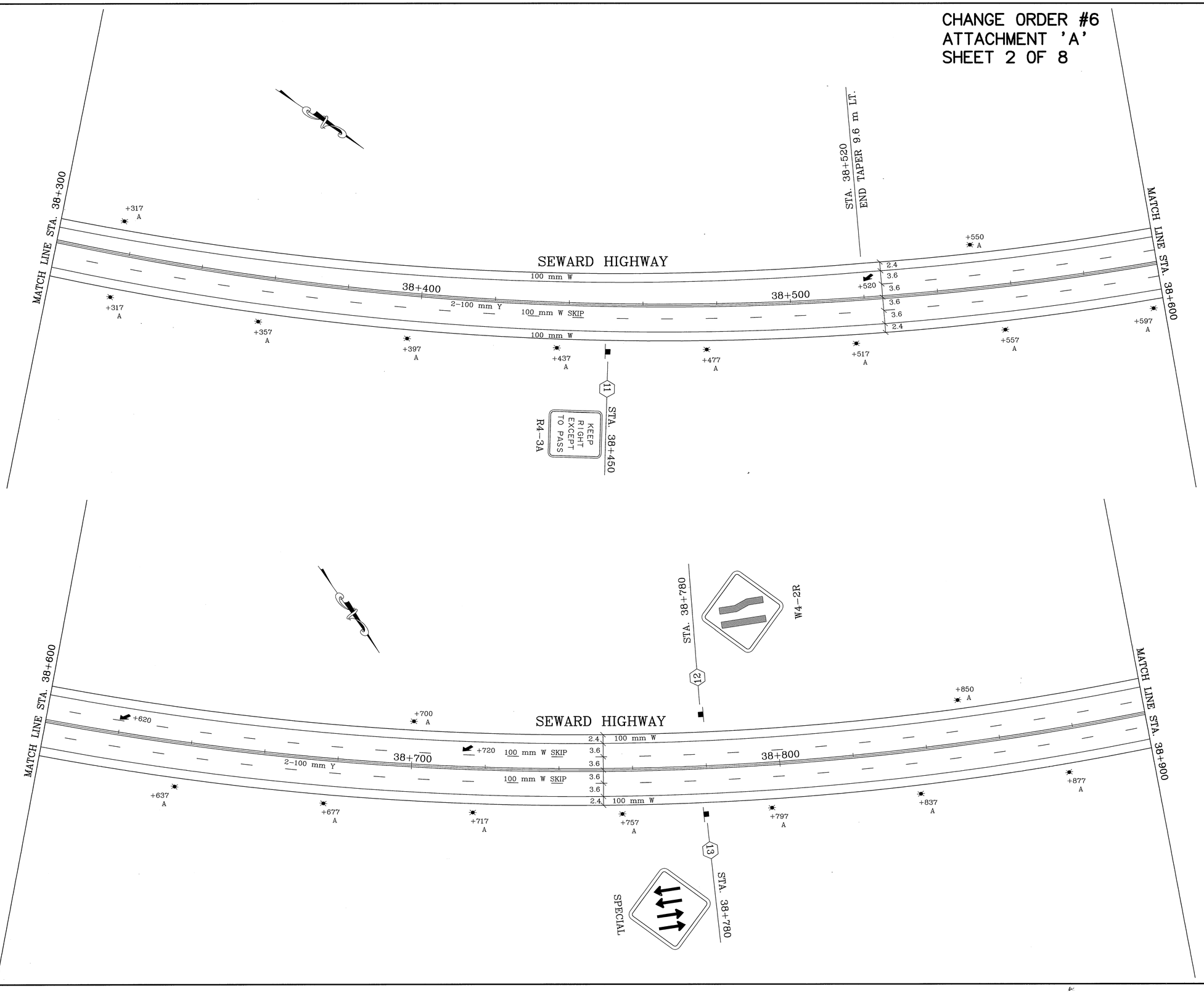
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

SIGNING AND STRIPING

SPECIFICATIONS
SCALE 1=1
COMPUTER SPECIFICATION
AUTOCAD-CAROLEE S:\SKPROJ\35371\STRIPE
D:\SDSKPROJ\35371\0A1A\1028\TEXT\TRIPPTRF.DWG 8-21-01 2:52:26 pm EST
VIEW=
DESIGNED BY
CHECKED BY
DRAFTED BY KMM 6/12/02

CHANGE ORDER #6
ATTACHMENT 'A'
SHEET 2 OF 8



SHEET NO.	TOTAL SHEETS
J3A	J32
STATE	YEAR
ALASKA	2004

PROJECT DESIGNATION
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION

CHANGE ORDER NO. 6

NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
REGISTERED PROFESSIONAL ENGINEER

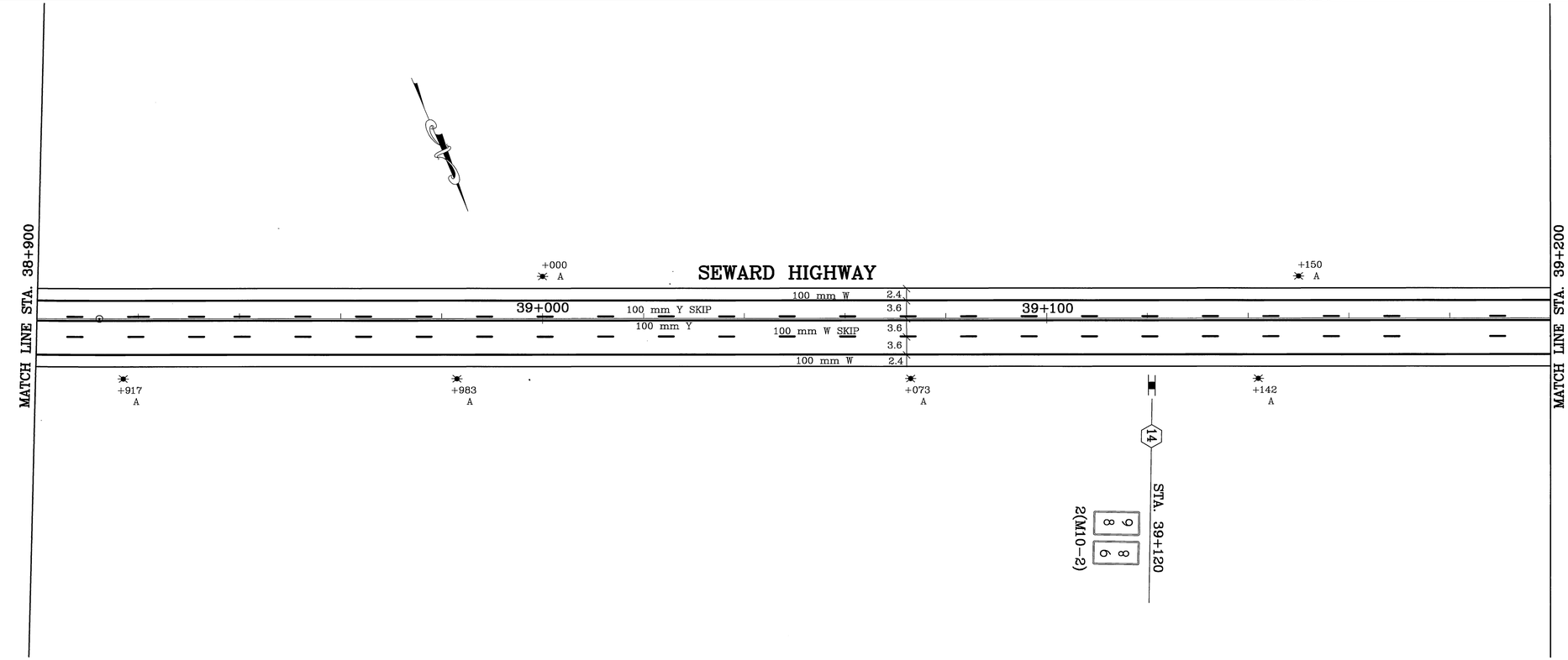
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

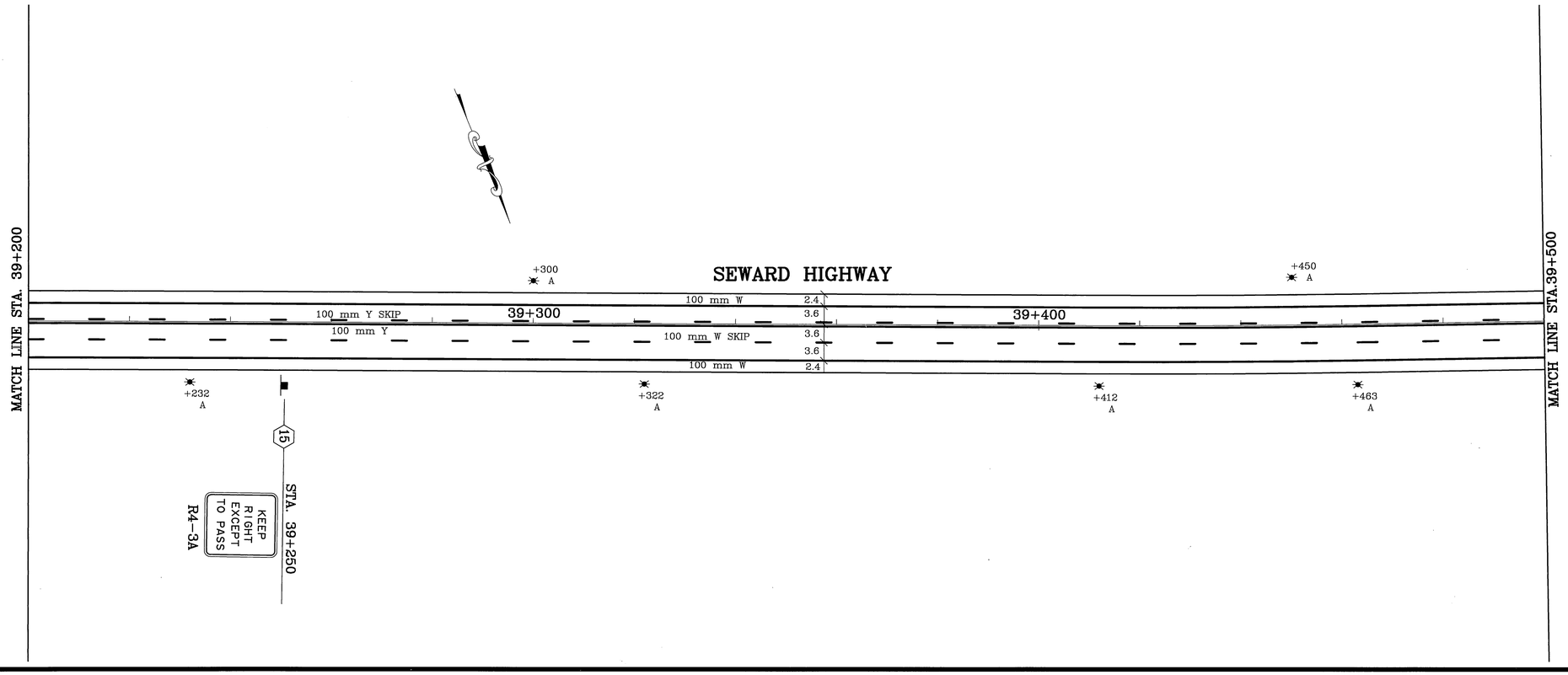
SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

SIGNING AND STRIPING

AS-BUILT 4/1/12

SPECIFICATIONS		
SCALE 1=1	AUTOCAD: CAROLEE 544433\STRIPE_CHANGEORDER	
COMPUTER DESIGNATION		
DESIGNED BY		
CHECKED BY	CJJ	4/26/04
DRAFTED BY		
VIEW=3		





SHEET NO.	TOTAL SHEETS
J4	J32
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION

THIS SHEET REPLACED BY J4A
CHANGE ORDER NO.6

NOTE:
DIMENSIONS ARE IN METERS
UNLESS OTHERWISE NOTED.

STATE OF ALASKA
JUDY J. DOUGHERTY
CE 8823
REGISTERED PROFESSIONAL ENGINEER

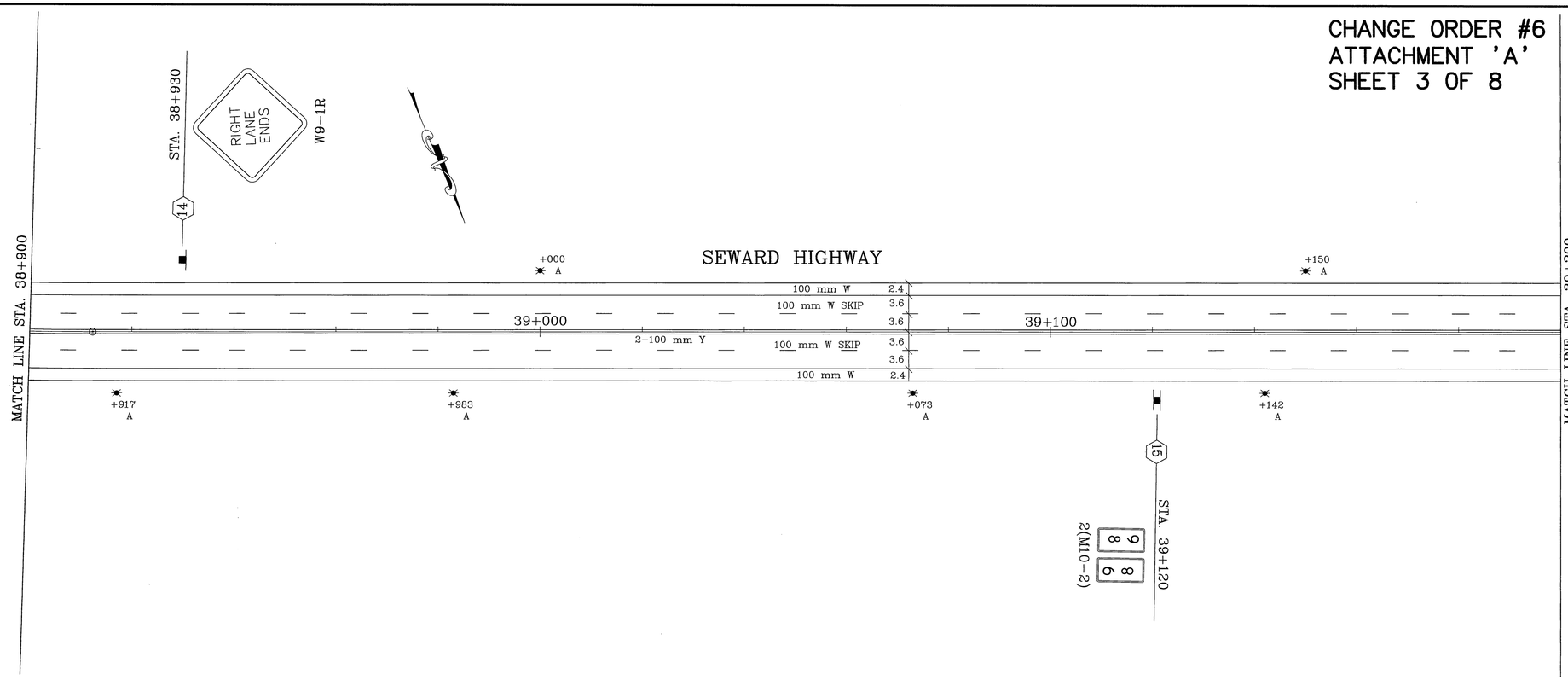
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

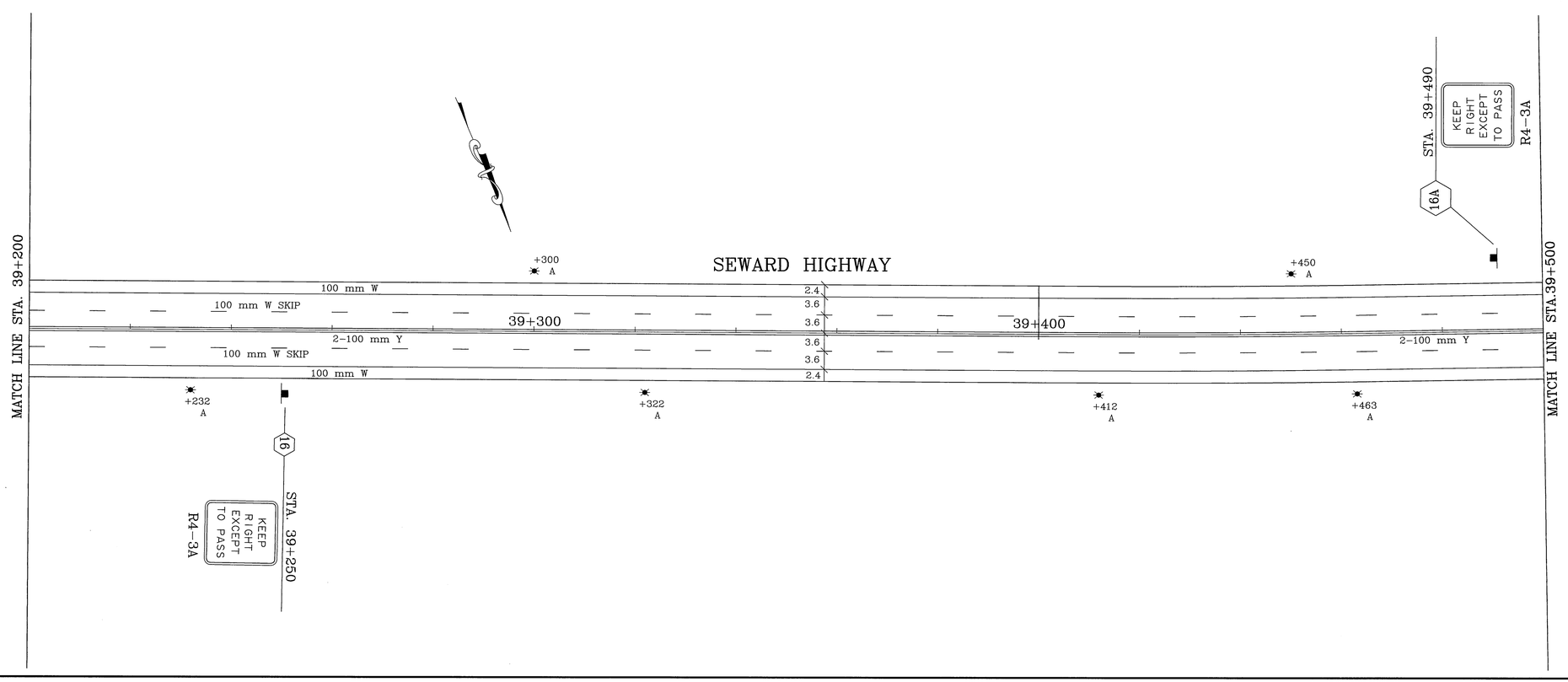
SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

SIGNING AND STRIPING

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-CAROLEE 9DSKPRO\53577\STRIPE
D:\SDSKPRO\53577\DATA\NOREIRD\7B1ROPTRF.DWG 3-12-01 2:52:26 pm EST
VIEW=
DESIGNED BY
CHECKED BY
DRAWN BY KMH 6/12/02

CHANGE ORDER #6
ATTACHMENT 'A'
SHEET 3 OF 8





SHEET NO.	TOTAL SHEETS
J4A	J32
STATE	YEAR
ALASKA	2004
PROJECT DESIGNATION	
NH-0A3-1(28)	
ADDENDUM NO.	
ATTACHMENT NO.	
REVISIONS	

NO.	DATE	DESCRIPTION

CHANGE ORDER NO. 6

NOTE:
DIMENSIONS ARE IN METERS
UNLESS OTHERWISE NOTED.

STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
REGISTERED PROFESSIONAL ENGINEER

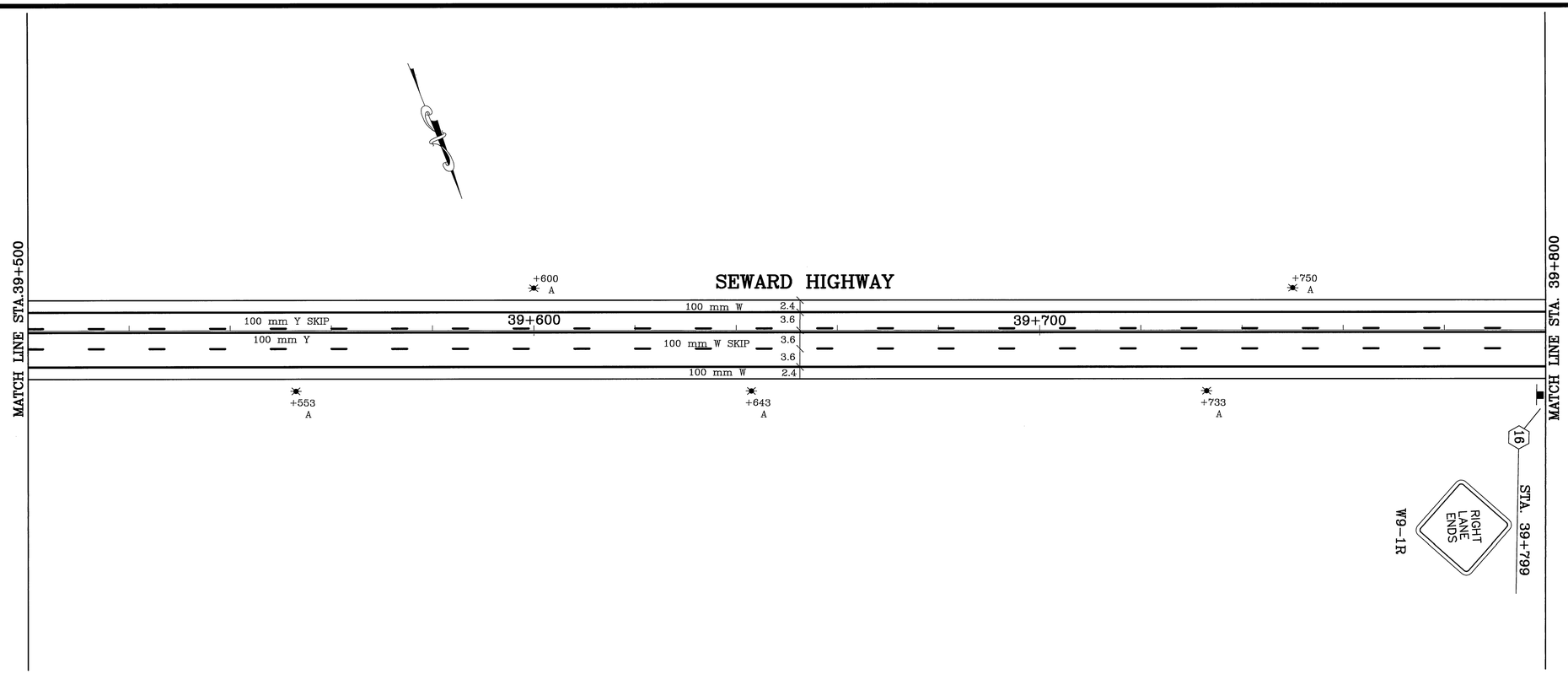
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

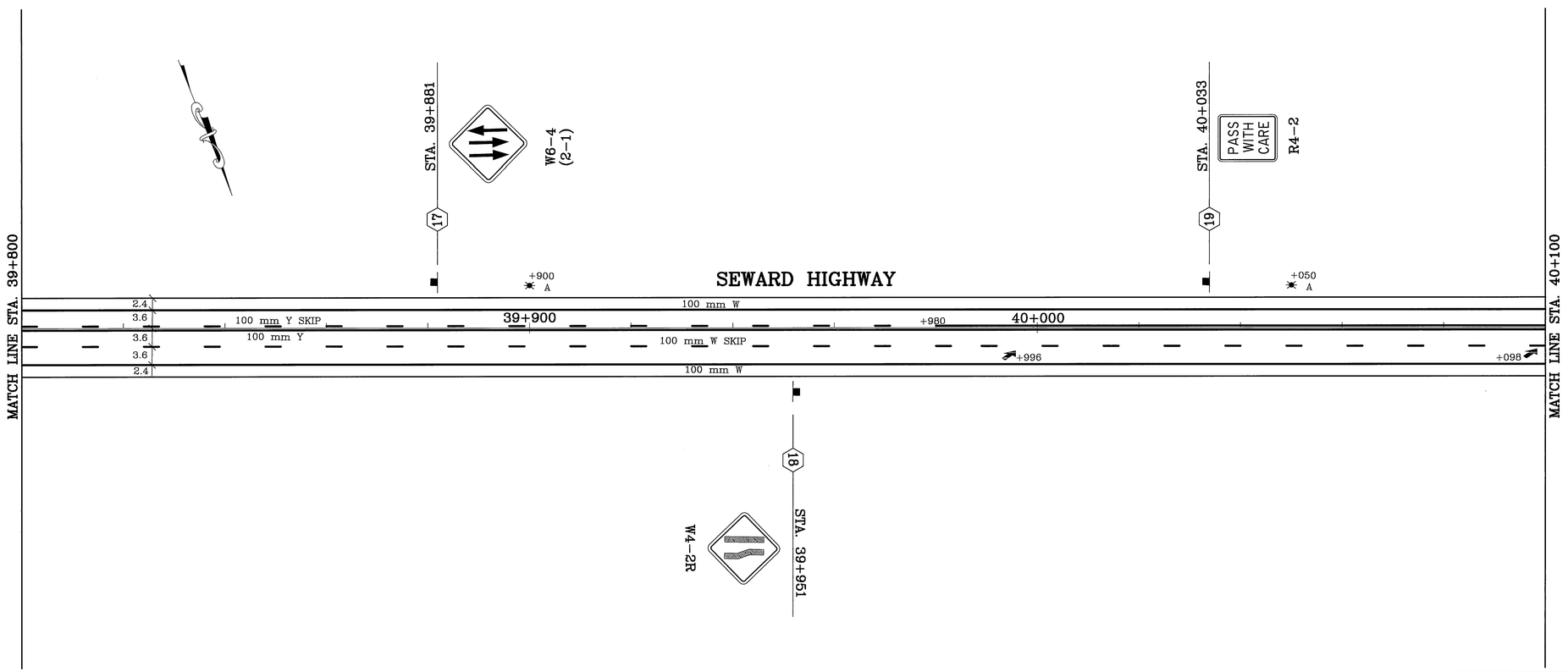
SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

SIGNING AND STRIPING

AS-BUILT 4/1/12

SPECIFICATIONS		
SCALE 1=1	AUTOCAD: CAROLEE 54443\STRIPE_CHANGEORDER	
COMPUTER DESIGNATION		
DESIGNED BY		
CHECKED BY	CJ	4/26/04
DRAFTED BY		
VIEW=4		





SHEET NO.	TOTAL SHEETS
J5	J32
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION

THIS SHEET REPLACED BY J5A
CHANGE ORDER NO. 6

NOTE:
DIMENSIONS ARE IN METERS
UNLESS OTHERWISE NOTED.

STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
4-17-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

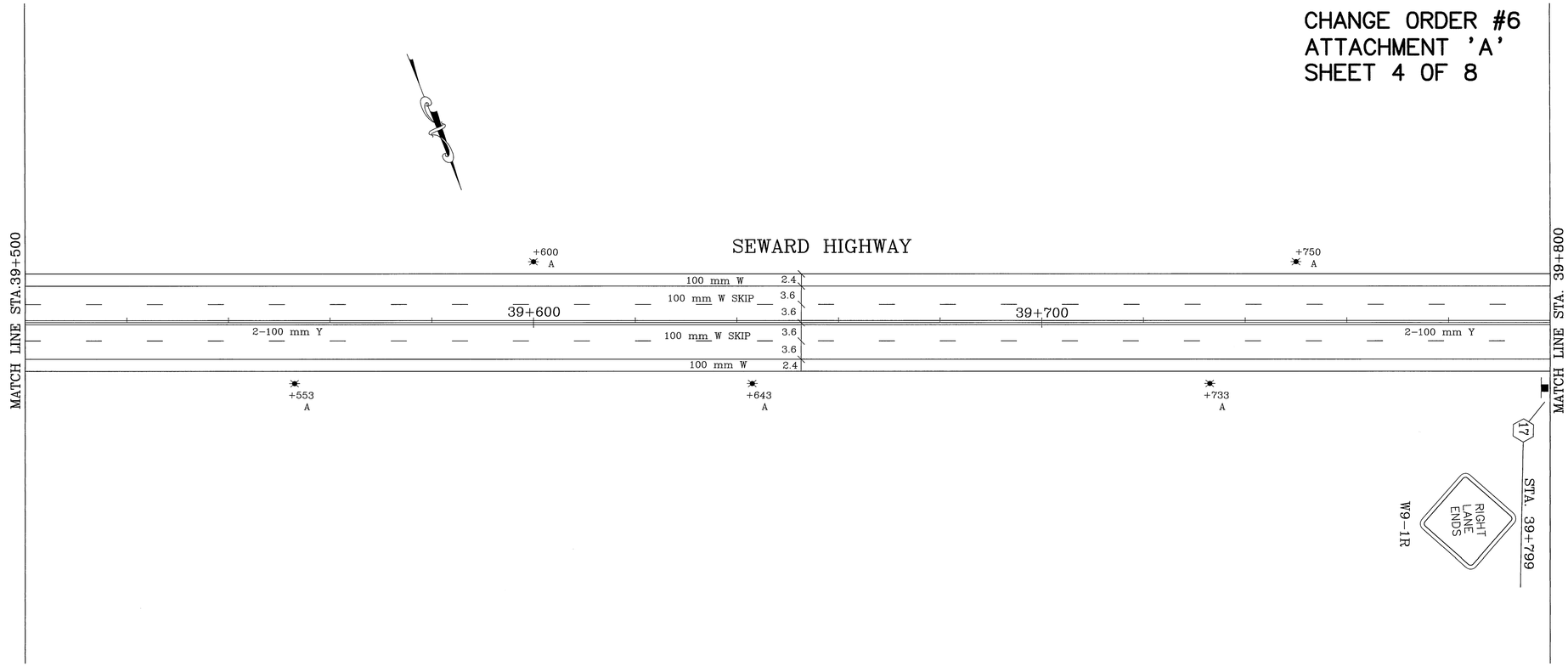
SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

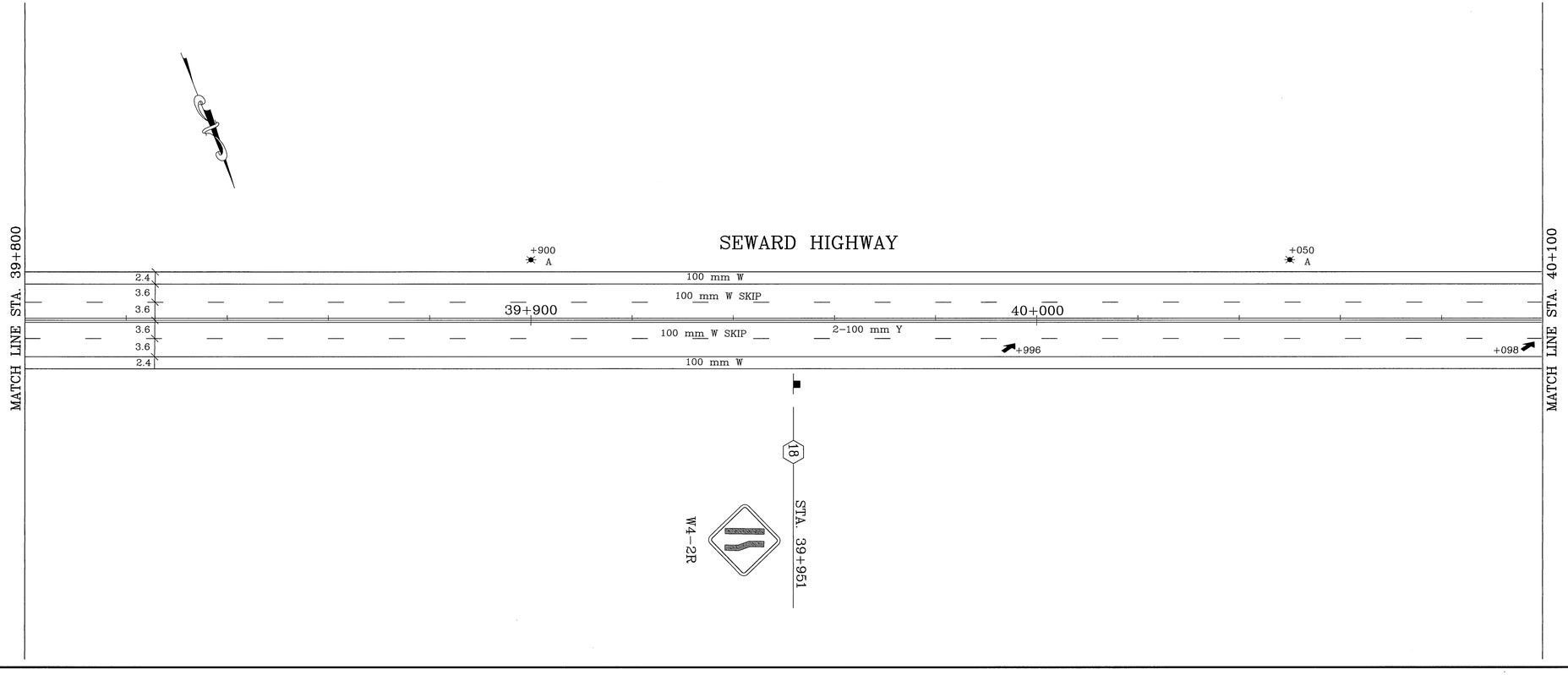
SIGNING AND STRIPING

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-CAROLLE S:\SKPROJ\A3577\STRIPE
D:\SSKPROJ\A3577\DATA\NH0A3\PB\TRSOPTRF.DWG 8-21-01 2:52:26 pm EST
VIEW=

DESIGNED BY
CHECKED BY
DRAWN BY KMH 6/12/02

CHANGE ORDER #6
ATTACHMENT 'A'
SHEET 4 OF 8





SHEET NO.	TOTAL SHEETS
J5A	J32
STATE	YEAR
ALASKA	2004

PROJECT DESIGNATION
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION

CHANGE ORDER NO. 6

NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
REGISTERED PROFESSIONAL ENGINEER

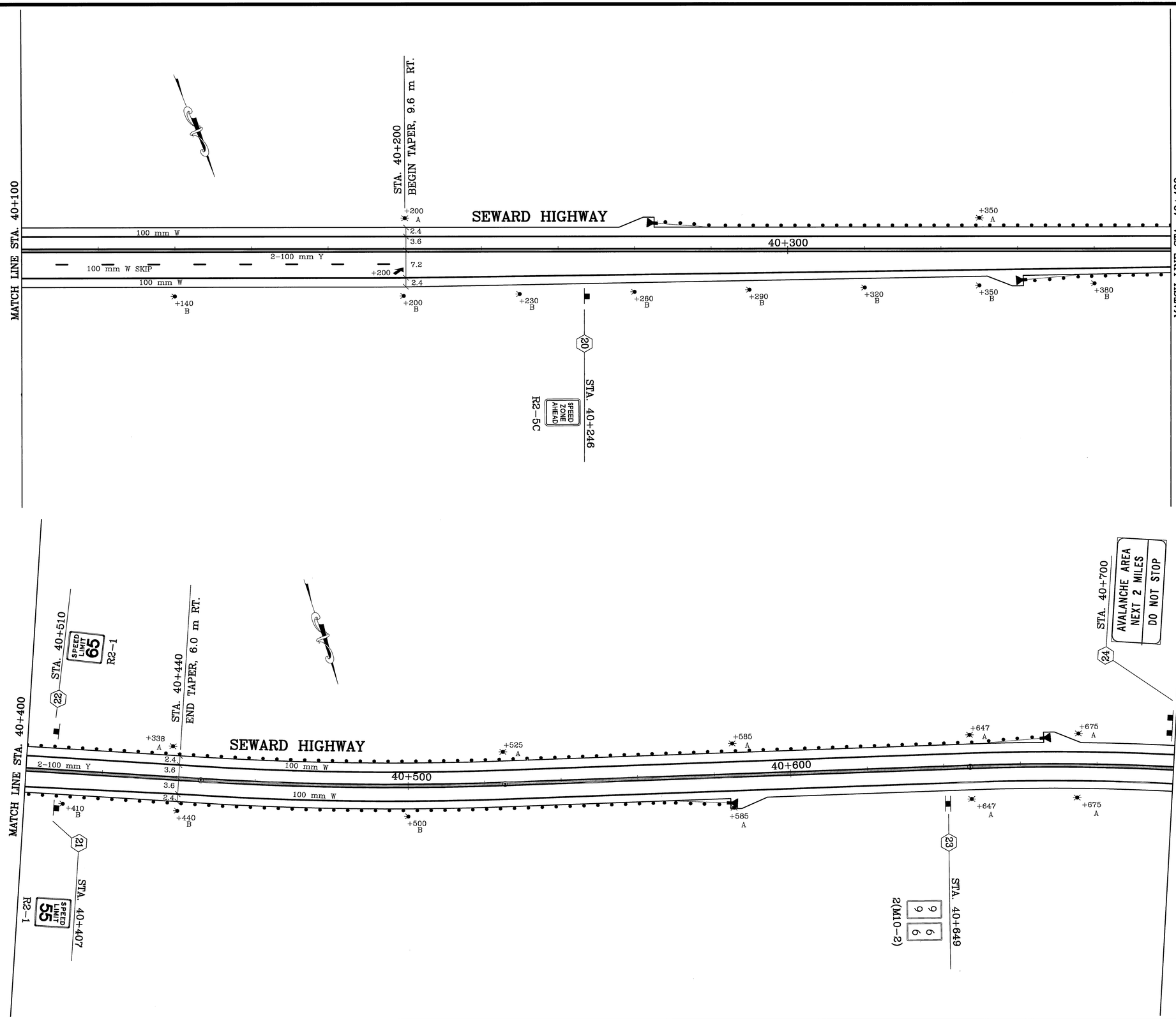
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

SIGNING AND STRIPING

AS-BUILT 4/1/12

DESIGNED BY		
CHECKED BY		
DRAFTED BY	CJ	4/26/04
VIEW=5		
SPECIFICATIONS		
SCALE: 1=1	AUTOCAD: CAROLEE 544433\STRIPE_CHANGEORDER	
COMPUTER DESIGNATION		



SHEET NO.	TOTAL SHEETS
J6	J32
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION

THIS SHEET REPLACED BY J6A.
CHANGE ORDER NO. 6

NOTE:
DIMENSIONS ARE IN METERS
UNLESS OTHERWISE NOTED.

STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
6-17-02
REGISTERED PROFESSIONAL ENGINEER

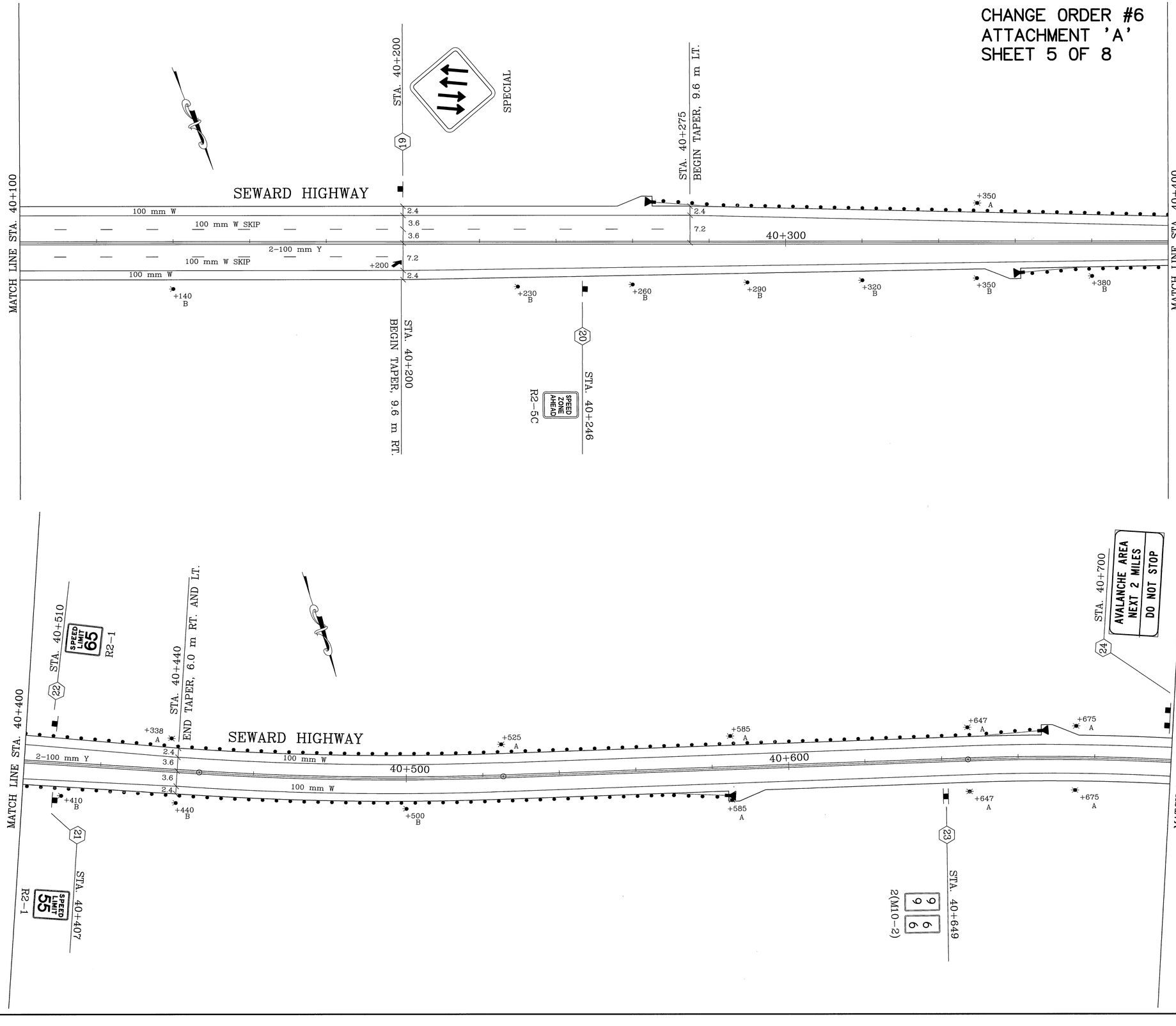
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

SIGNING AND STRIPING

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-CARDULE: SDSKPROJ\53577\STRIPE
D:\SDSKPROJ\53577\DATA\TRONBTRDN\PATHSOPTTOP.DWG 8-21-01 2:52:26 pm EST
VIEW#
DESIGNED BY
CHECKED BY
DRAFTED BY KMH 6/12/02

CHANGE ORDER #6
ATTACHMENT 'A'
SHEET 5 OF 8



SHEET NO.	TOTAL SHEETS
J6A	J32
STATE	YEAR
ALASKA	2004

PROJECT DESIGNATION
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION

CHANGE ORDER NO. 6

NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

STATE OF ALASKA 49TH JUDY J. DOUGHERTY CE 8823 REGISTERED PROFESSIONAL ENGINEER

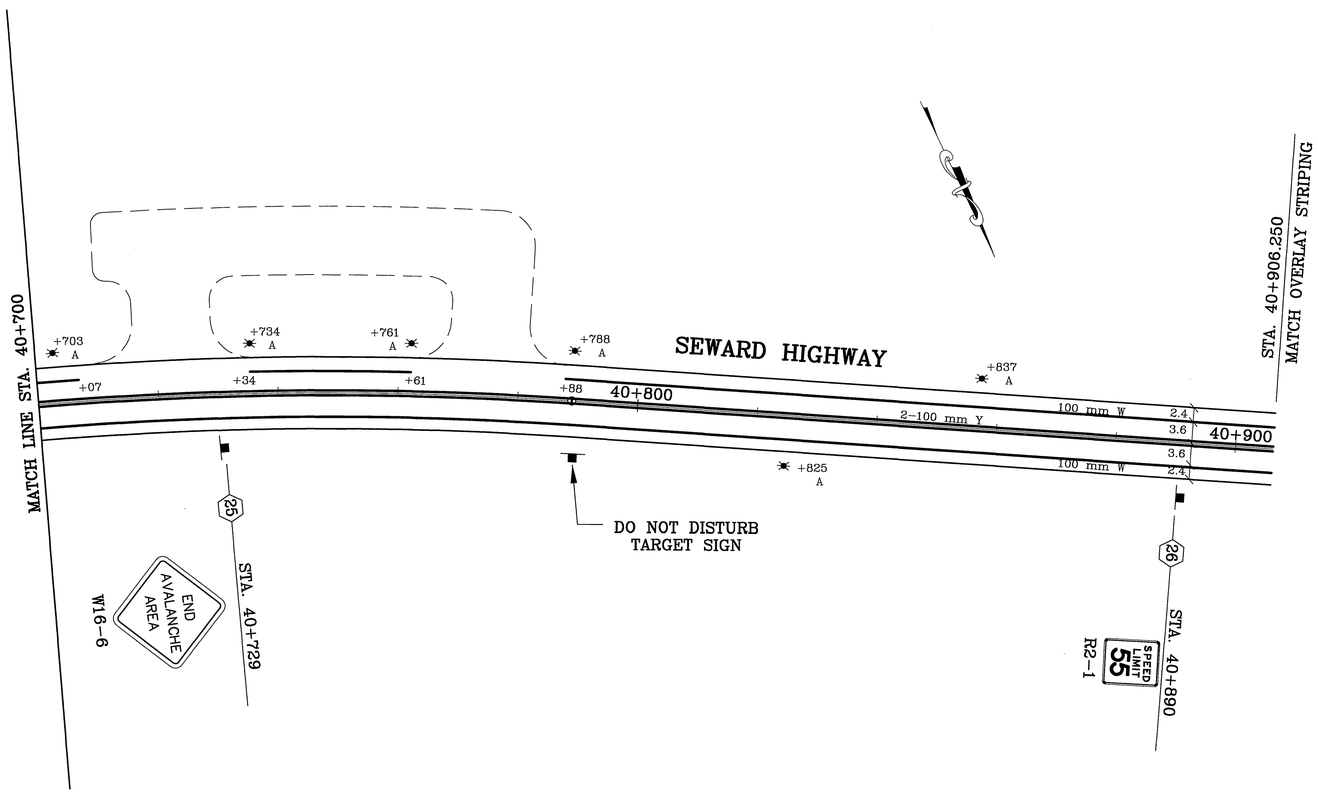
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND RECREATIONAL IMPROVEMENTS

SIGNING AND STRIPING

AS-BUILT 4/1/12

SPECIFICATIONS		
SCALE 1=1	AUTOCAD: CAROLEE S4433\STRIPE_CHANGEORDER	
COMPUTER DESIGNATION		
DESIGNED BY		
CHECKED BY		
DRAFTED BY	CJ	4/27/04
VIEW#6		



SHEET NO.	TOTAL SHEETS
J7	J32
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION

THIS SHEET REPLACED BY J7A.
CHANGE ORDER NO. 6

NOTE:
DIMENSIONS ARE IN METERS
UNLESS OTHERWISE NOTED.

STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
6.17.02
REGISTERED PROFESSIONAL ENGINEER

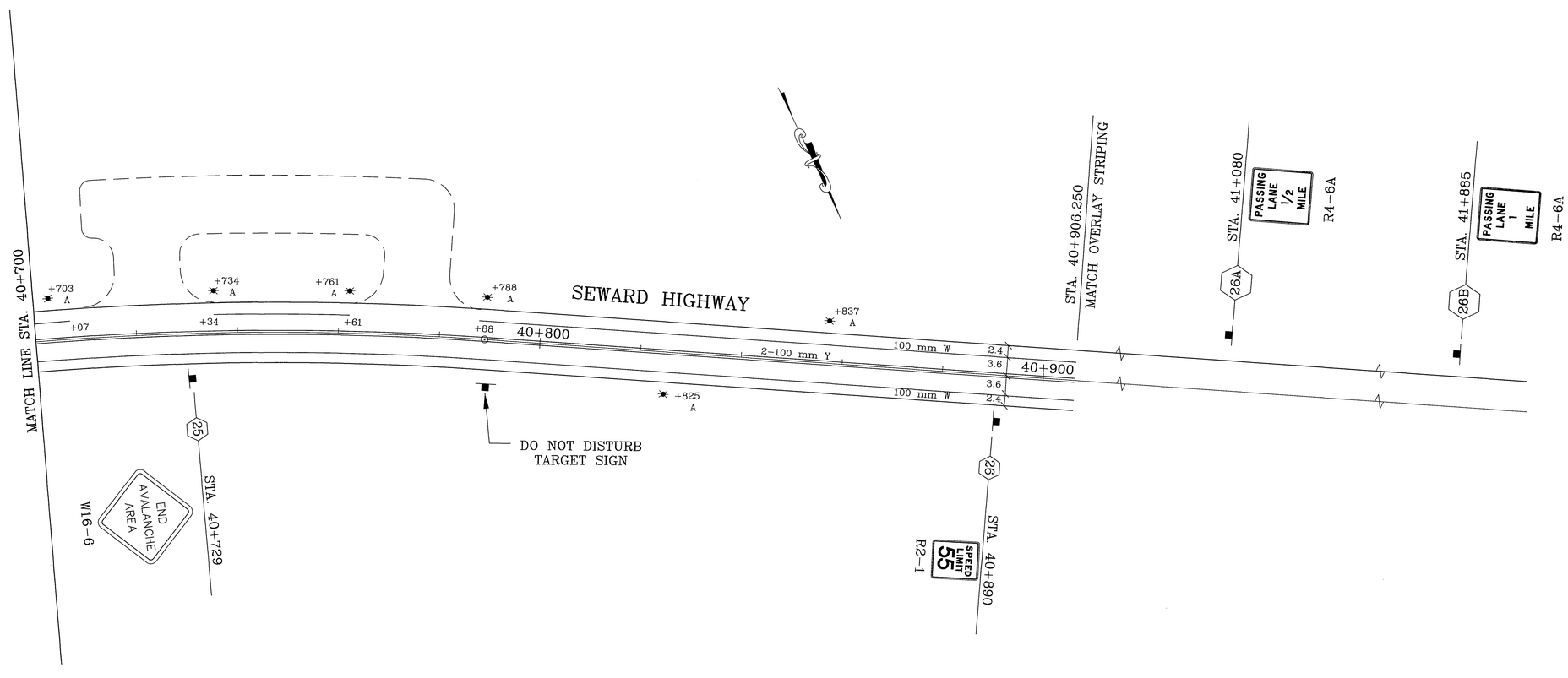
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

SIGNING AND STRIPING

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-CAROLEE: SDSKPROJ\53527\STRIPE
D:\SDSKPROJ\53527\DATA\WORKFROM\7B1\REPRTF.DWG 3-10-01 2:52:26 pm EST
VIEW=
DESIGNED BY
CHECKED BY
DRAFTED BY KMH 6/12/02

CHANGE ORDER #6
ATTACHMENT 'A'
SHEET 6 OF 8



SHEET NO.	TOTAL SHEETS
J7A	J32
STATE	YEAR
ALASKA	2004

PROJECT DESIGNATION
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION

CHANGE ORDER NO. 6

NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
REGISTERED PROFESSIONAL ENGINEER

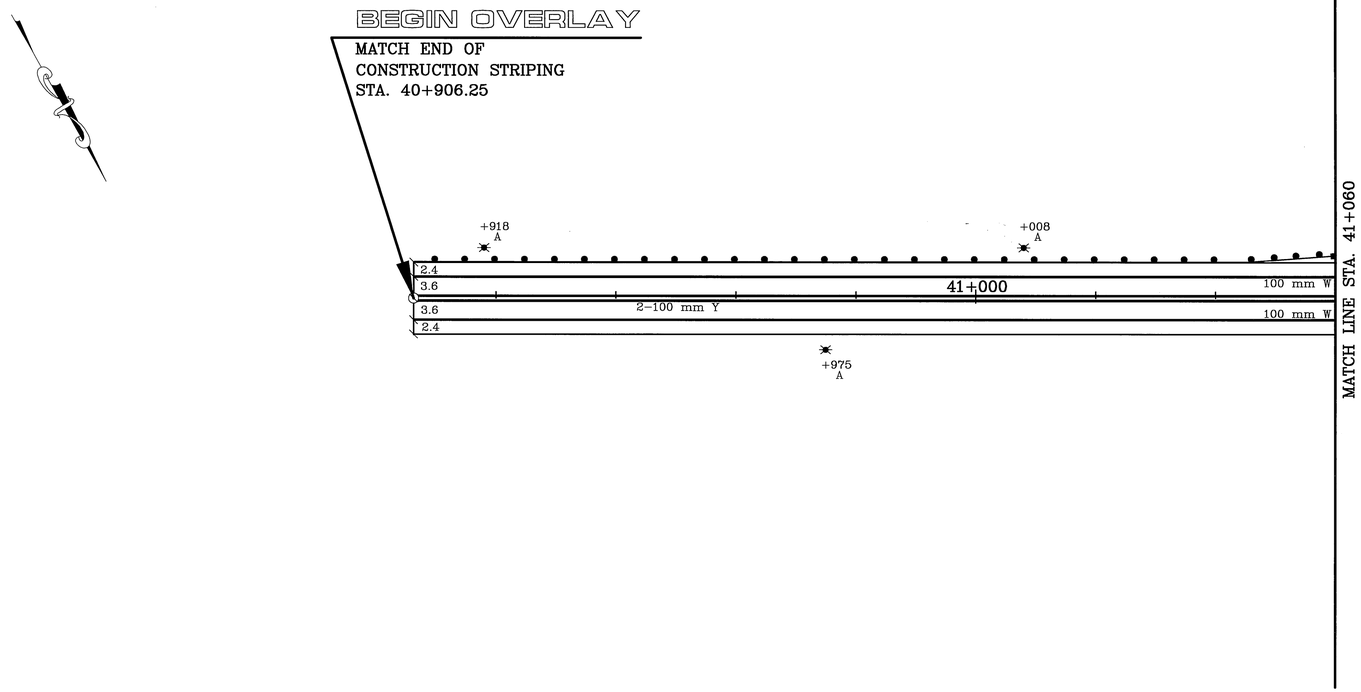
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

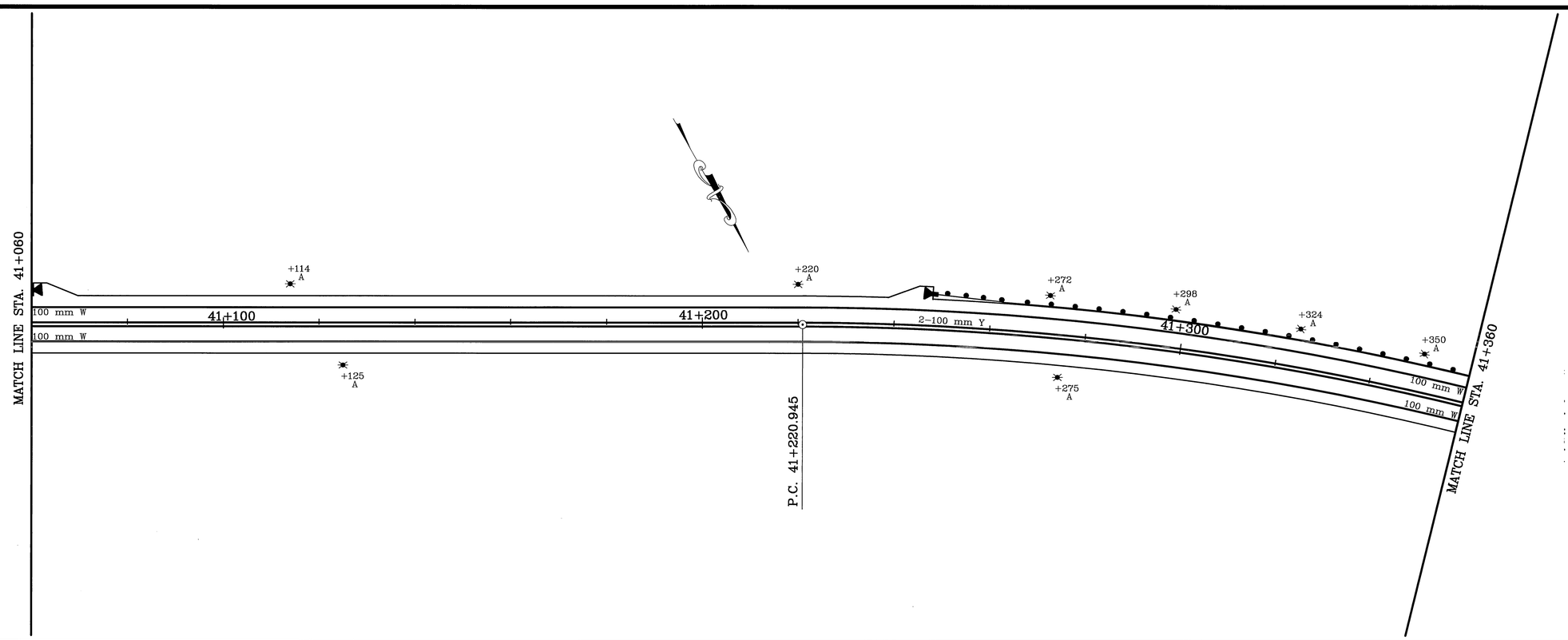
SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

SIGNING AND STRIPING

AS-BUILT 4/1/12

SPECIFICATIONS		DESIGNED BY	
SCALE 1=1	AUTOCAD: CAROLEE 544433\STRIPE_CHANGEORDER	CHECKED BY	VIEW#7
COMPUTER DESIGNATION		DRAWTED BY	CJ 4/26/04





SHEET NO.	TOTAL SHEETS
J8	J32
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

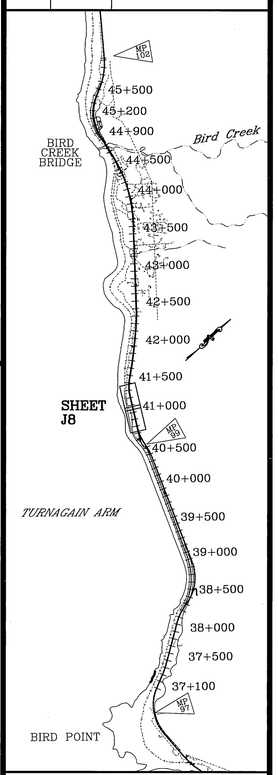
NH-OA3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
6-17-02
REGISTERED PROFESSIONAL ENGINEER

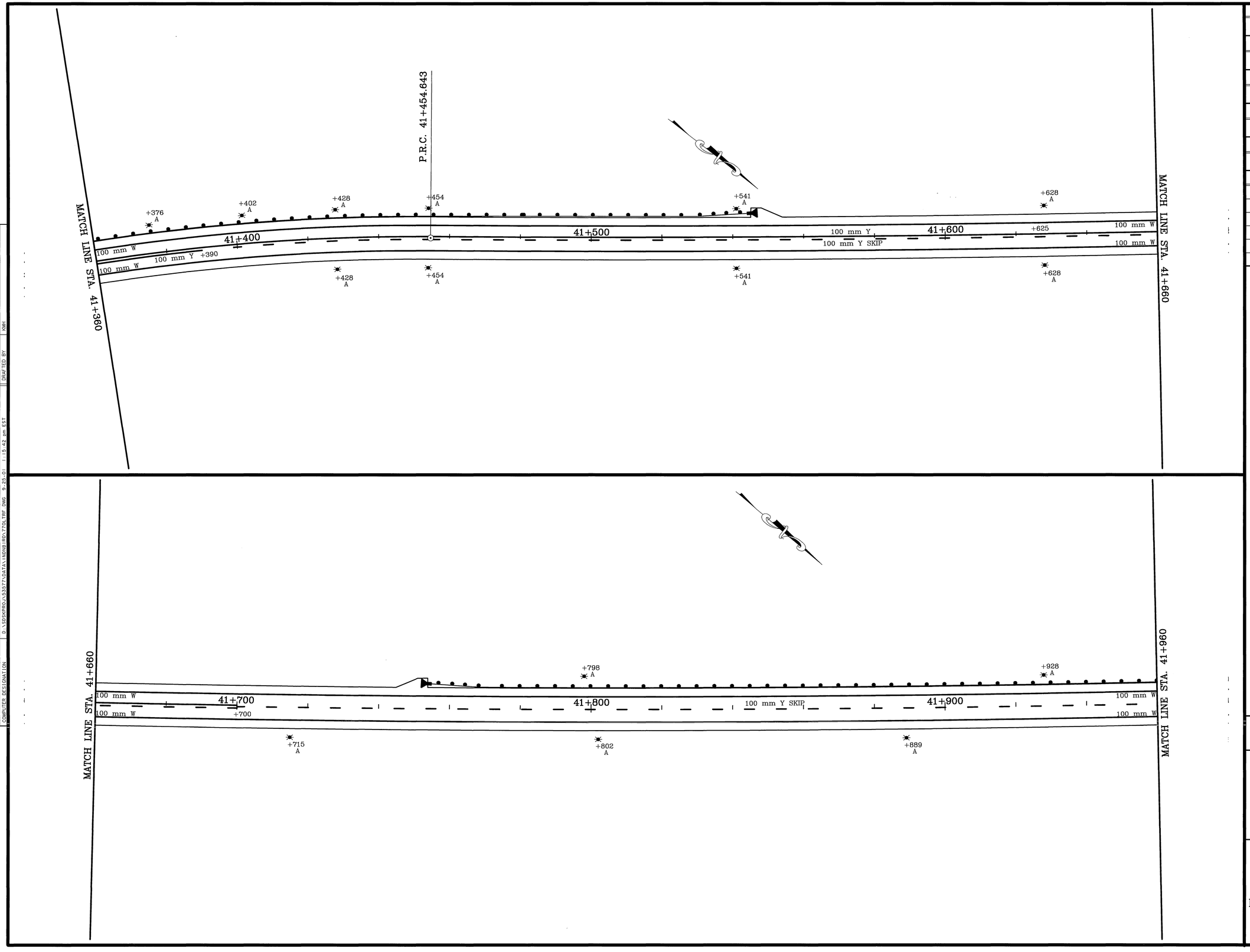
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS
OVERLAY
BIRD FLATS TO BIRD CREEK
SIGNING AND STRIPING

DESIGNED BY	
CHECKED BY	
DRAFTED BY	KMH

VIEW=HALF01 AT .5
1:15:42 pm EST
9-25-01

SPECIFICATIONS
SCALE 1=1
AUTOCAD-KAREN-
COMPUTER DESIGNATION
D:\SDSKPROJ\3377\DATA\NONBIRD\770L.TRF.DWG



SPECIFICATIONS		DESIGNED BY	
SCALE 1=1	AUTOCAD-KAREN-	CHECKED BY	
COMPUTER DESIGNATION	D:\SDSKPROJ\33577\DATA\INDNBIRDV770LTRF.DWG 9-25-01 1:15:42 pm EST VIEW=HALF02 AT .5	DRAFTED BY	KMH

SHEET NO.	TOTAL SHEETS
J9	J32
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

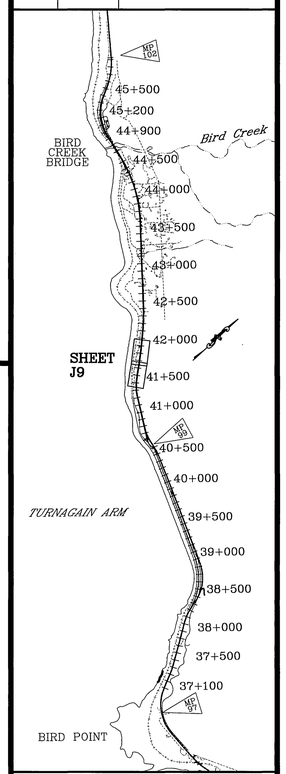
NH-OA3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION

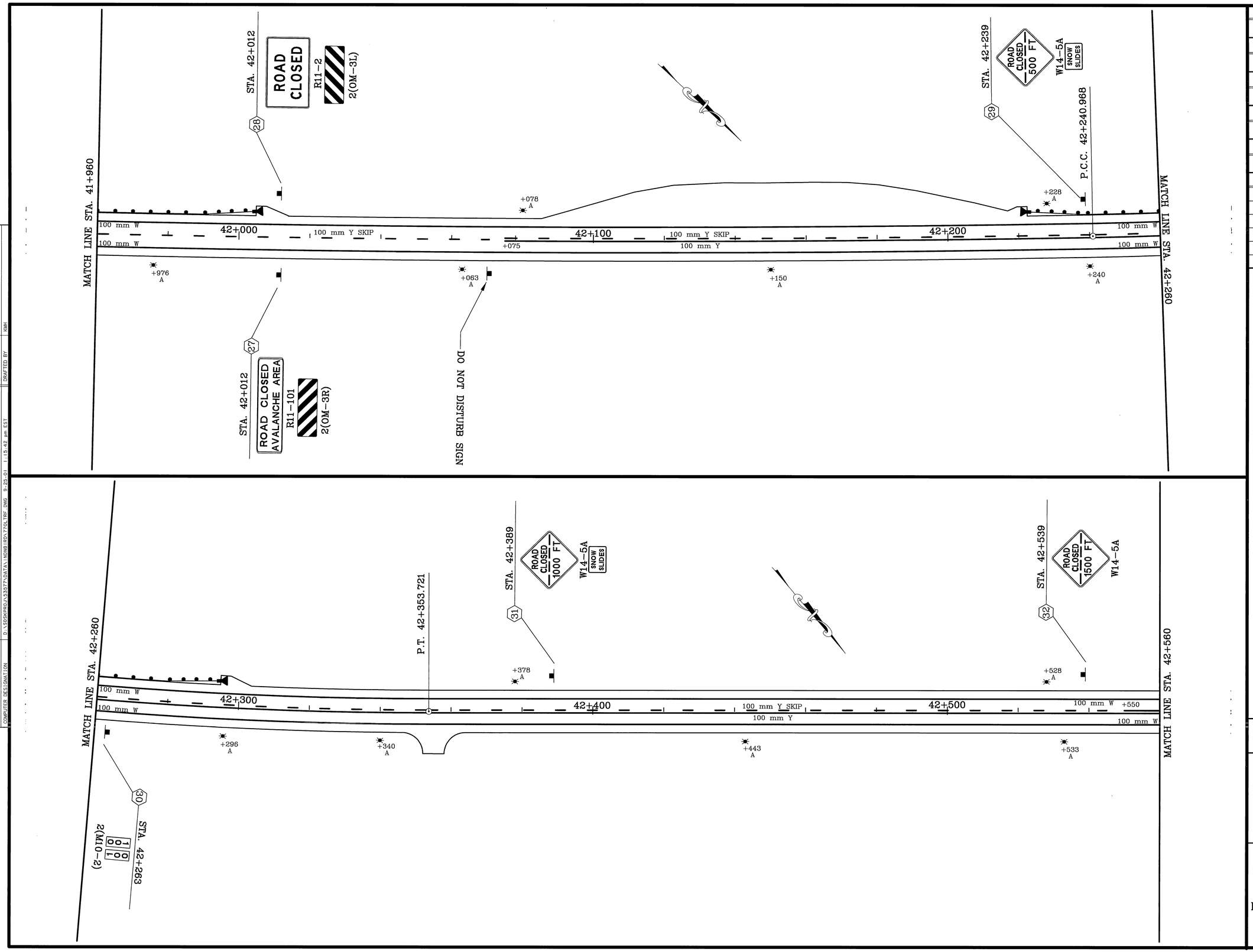


NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
6-17-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS
OVERLAY
BIRD FLATS TO BIRD CREEK
SIGNING AND STRIPING



SHEET NO.	TOTAL SHEETS
J10	J32
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

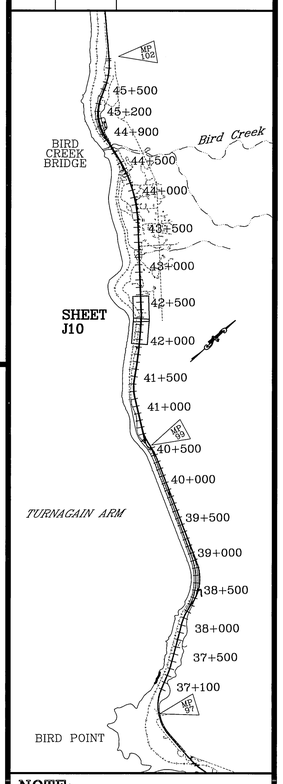
NH-OA3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



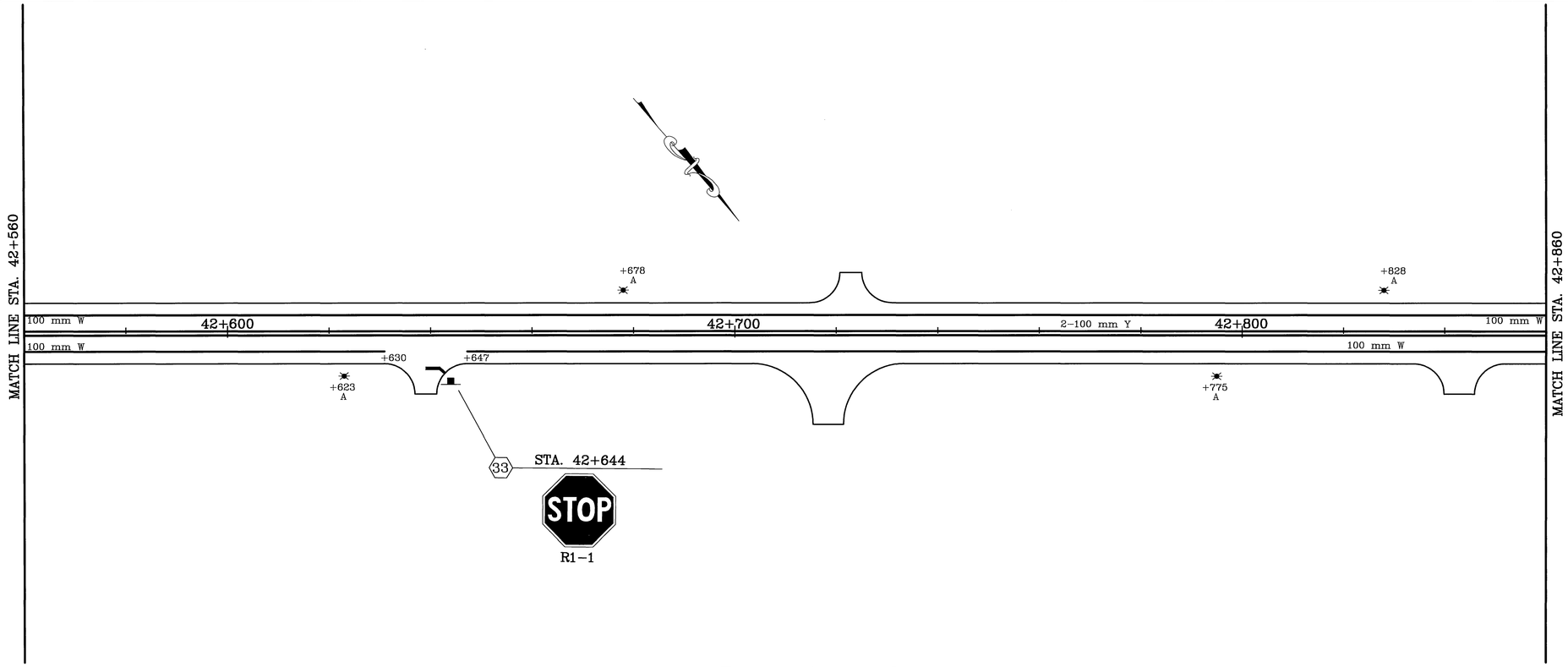
NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

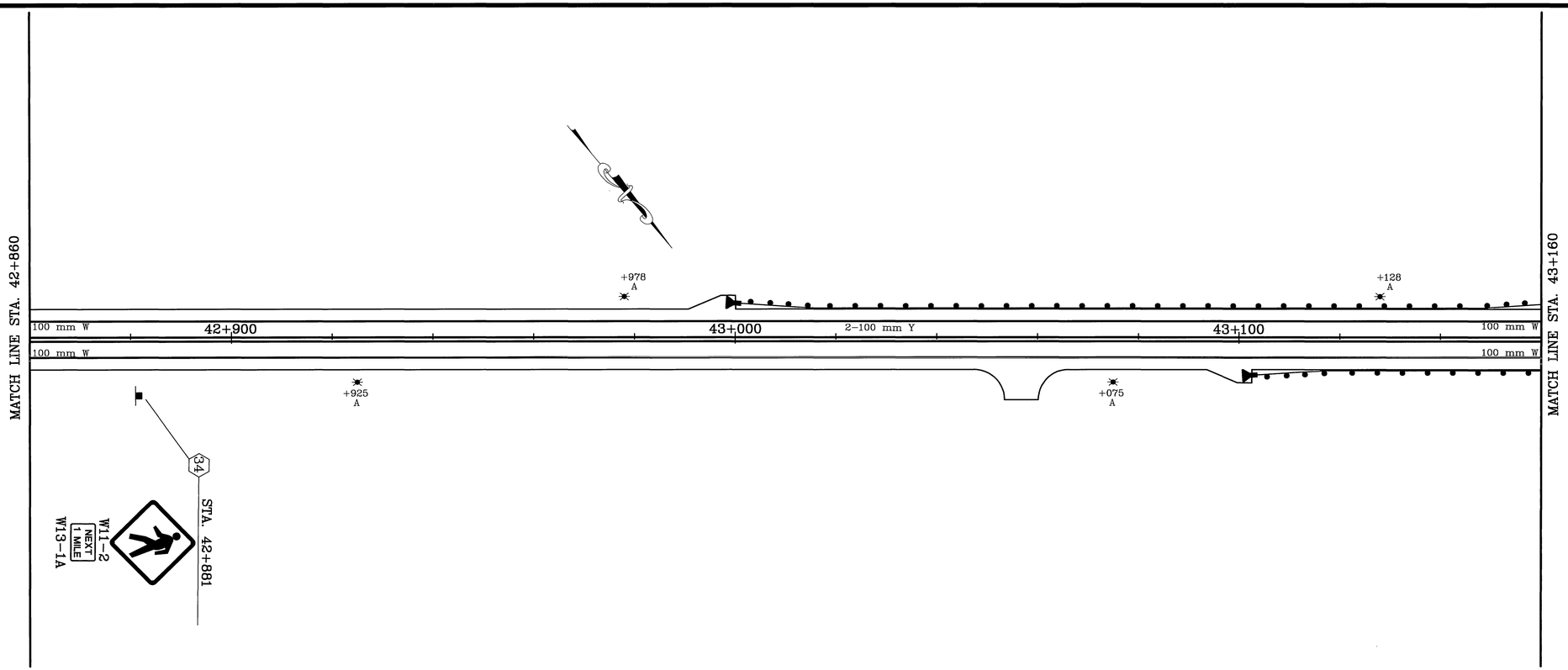
STATE OF ALASKA
49TH
JUDY J. HOUGHARTY
CE 8823
6-17-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS
OVERLAY
BIRD FLATS TO BIRD CREEK
SIGNING AND STRIPING

SPECIFICATIONS	
SCALE 1=1	AUTOCAD-KAREN-
COMPUTER DESIGNATION	D:\SDSKPROJ\33577\DATA\NDNBIRD\770LTRF.DWG 9-25-01 1:15:42 pm EST
DESIGNED BY	
CHECKED BY	VIEW= HALF03 AT .5
DRAFTED BY	KMH





SHEET NO.	TOTAL SHEETS
J11	J32
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

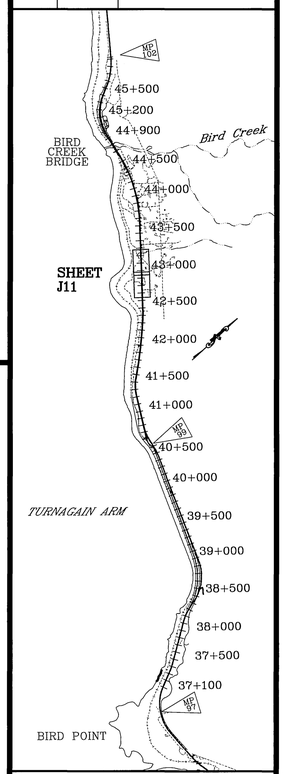
NH-OA3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

STATE OF ALASKA
JUDY J. DOUGHERTY
CE 8823
6-17-02
REGISTERED PROFESSIONAL ENGINEER

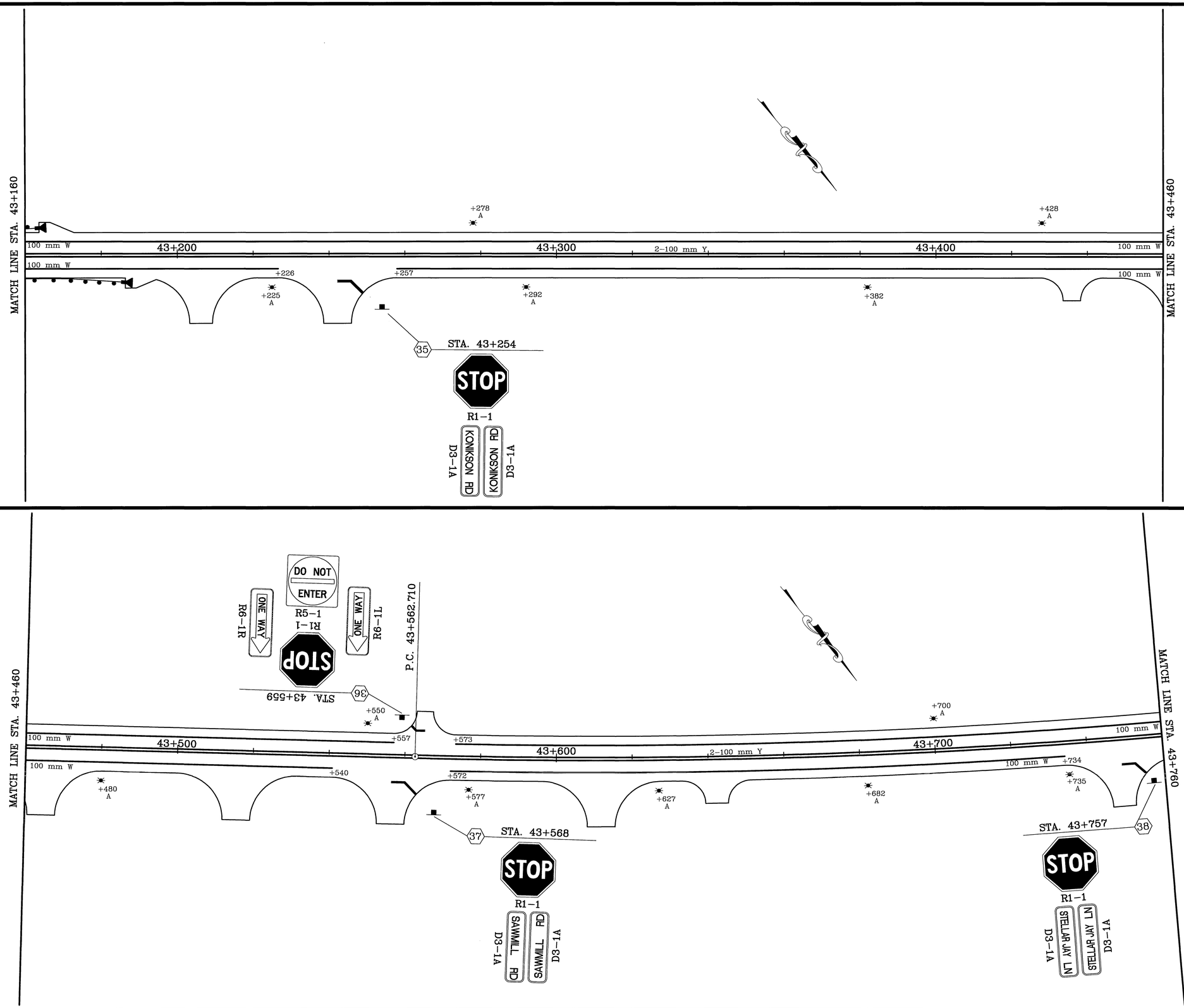
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS
OVERLAY
BIRD FLATS TO BIRD CREEK
SIGNING AND STRIPING

DESIGNED BY	
CHECKED BY	
DRAFTED BY	CMH

VIEW=HALF04 AT 5
1:15:42 pm EST

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-KAREN-
D:\SDSKPRO\A5577\DATA\NDNBIRD\770LTRF.DWG 9-25-01



SHEET NO.	TOTAL SHEETS
J12	J32
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

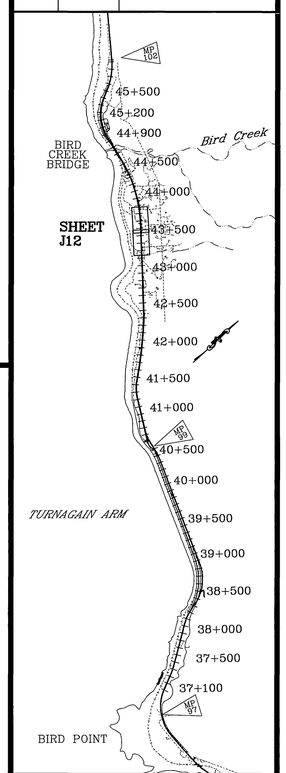
NH-OA3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



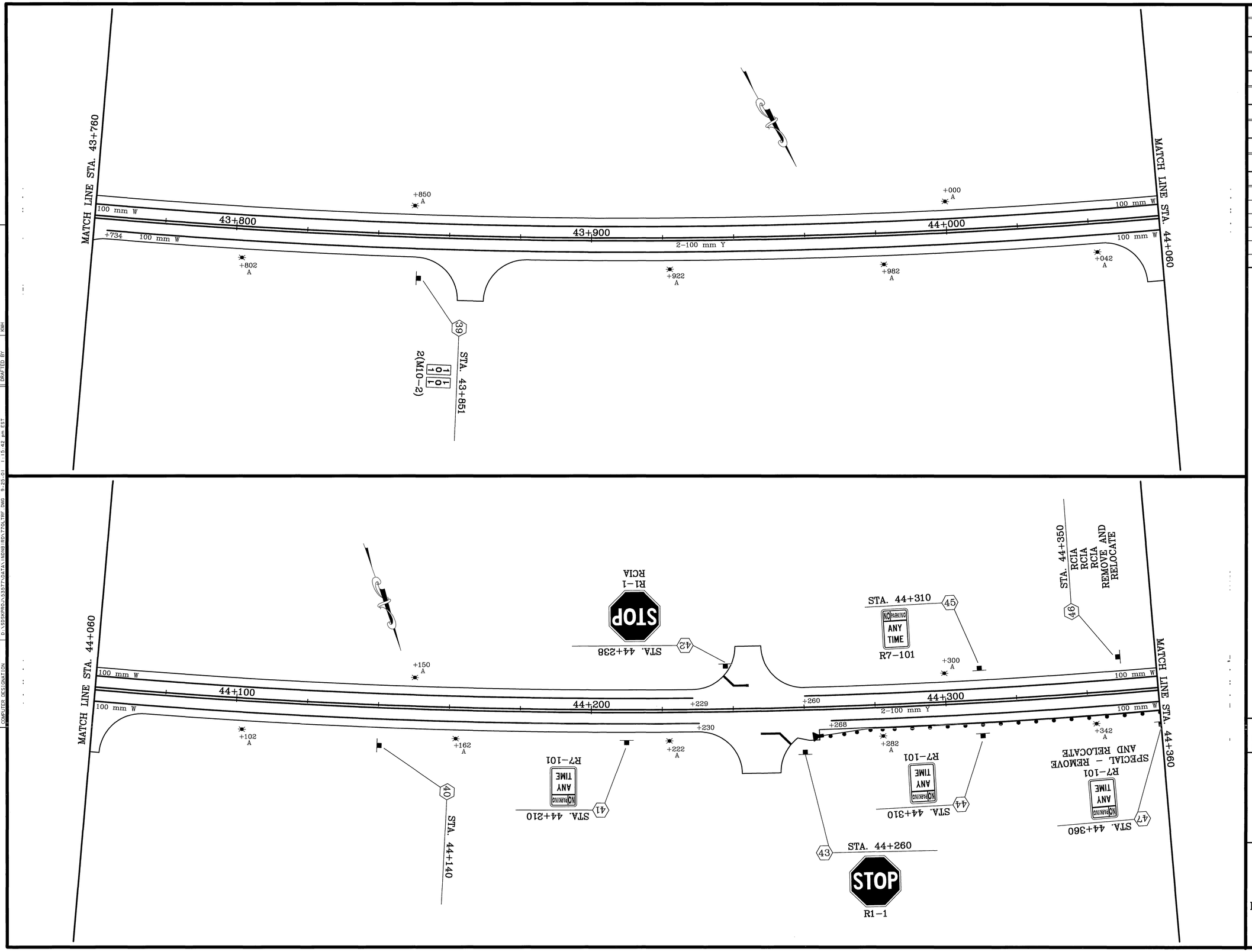
NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS
OVERLAY
BIRD FLATS TO BIRD CREEK
SIGNING AND STRIPING

DESIGNED BY	
CHECKED BY	
DRAFTED BY	KMH
VIEW= HALF05 AT 5	
9-25-01 1:15:42 pm EST	
AUTOCAD-KAREN-	
D:\SDSKPROJ\53577\DATA\INDNBIRD\770LTRF.DWG	
SPECIFICATIONS	
SCALE 1=1	
COMPUTER DESIGNATION	



SHEET NO.	TOTAL SHEETS
J13	J32
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

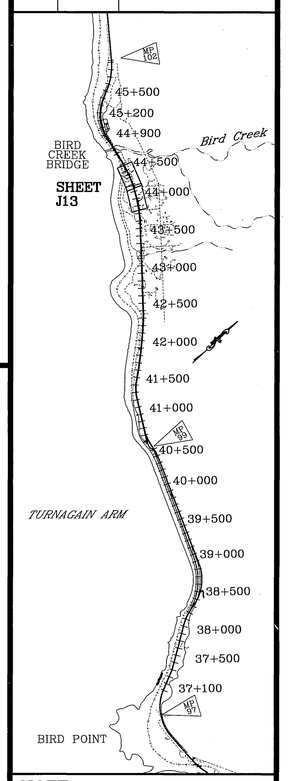
NH-OA3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



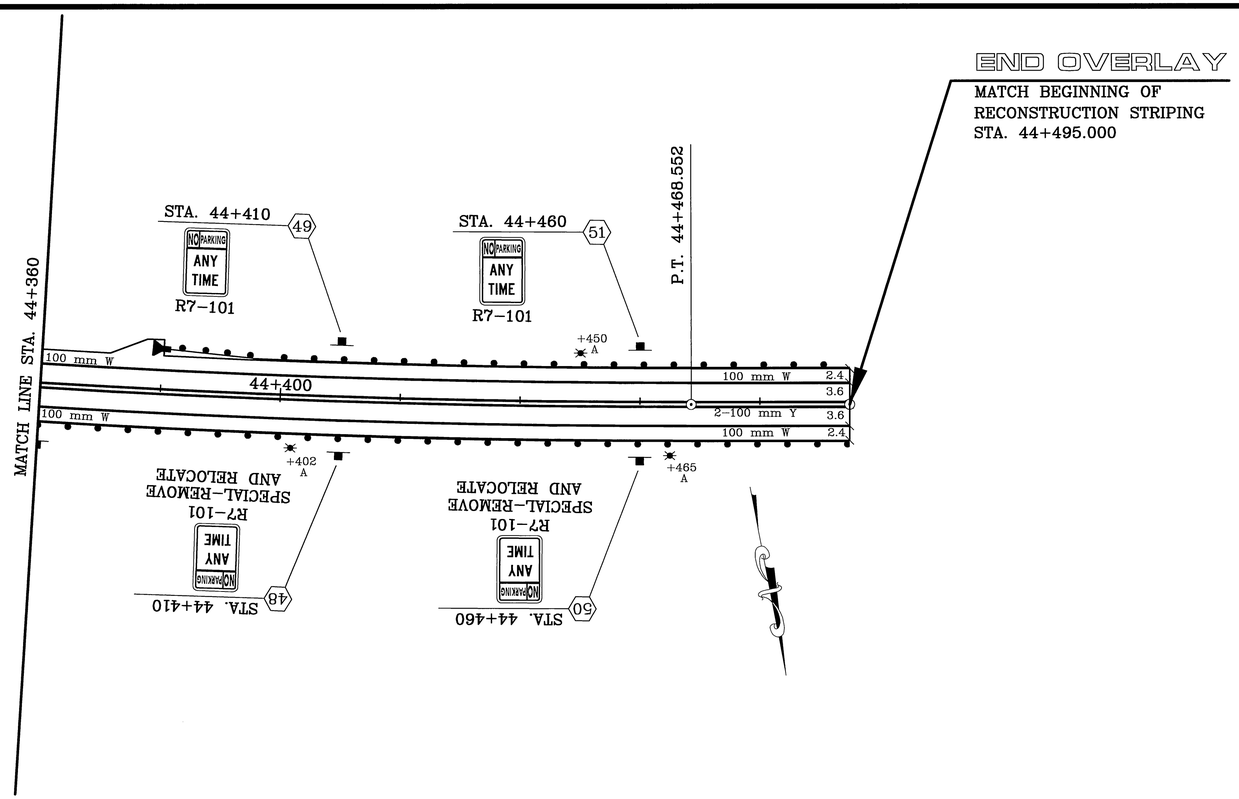
NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

STATE OF ALASKA
JUDY J. DOUGHERTY
CE 8823
REGISTERED PROFESSIONAL ENGINEER
10-17-02

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY & RECREATIONAL IMPROVEMENTS
OVERLAY
BIRD FLATS TO BIRD CREEK
SIGNING AND STRIPING

SPECIFICATIONS	
SCALE 1=1	AUTOCAD-KAREN-
COMPUTER DESIGNATION	D:\SDSKPROJ\33577\DATA\INDNBIRDY770LTRF.DWG 9-25-01 1:15:42 pm EST VIEW= HALF06 AT 5
DESIGNED BY	
CHECKED BY	
DRAFTED BY	KMH



SHEET NO.	TOTAL SHEETS
J14	J32
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

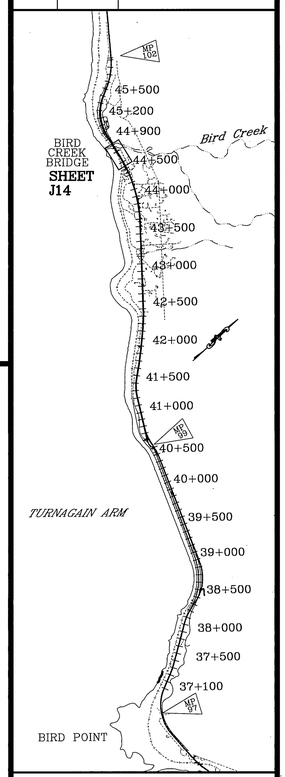
NH-OA3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



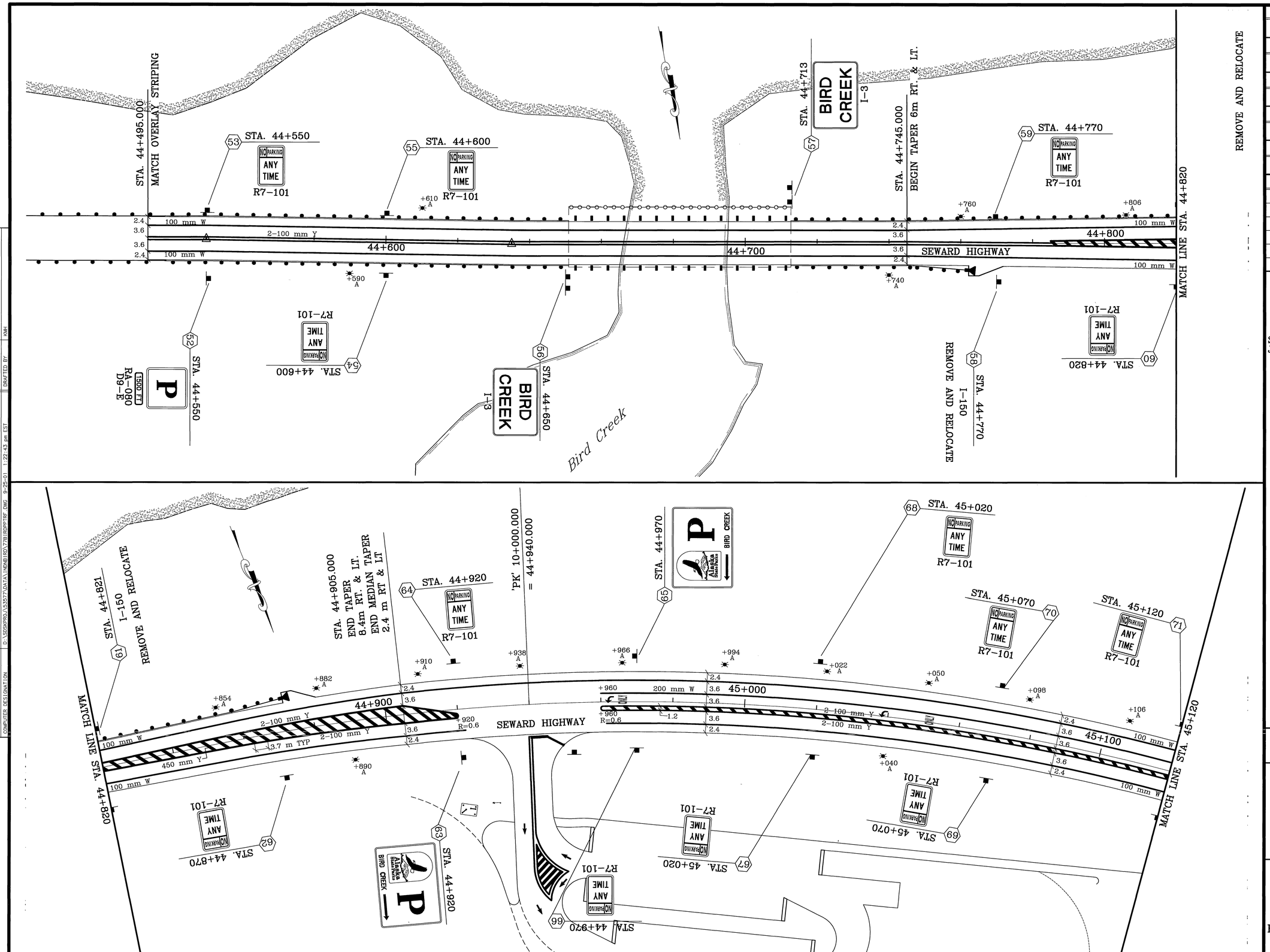
NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
9-17-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS
OVERLAY
BIRD FLATS TO BIRD CREEK
SIGNING AND STRIPING

SPECIFICATIONS		DESIGNED BY
SCALE 1=1	AUTOCAD-KAREN-	CHECKED BY
COMPUTER DESIGNATION	D:\SDSKPRO\X3577\DATA\INDNBIRD\77OLTRF.DWG 9-25-01 1:15:42 pm EST VIEW= HALF07 AT .5	DRAFTED BY KMH



SHEET NO.	TOTAL SHEETS
J15	J32
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

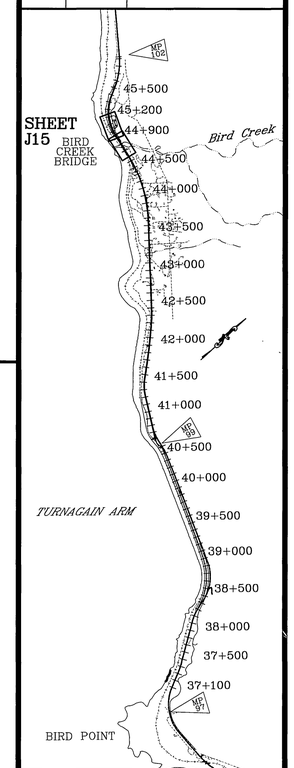
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

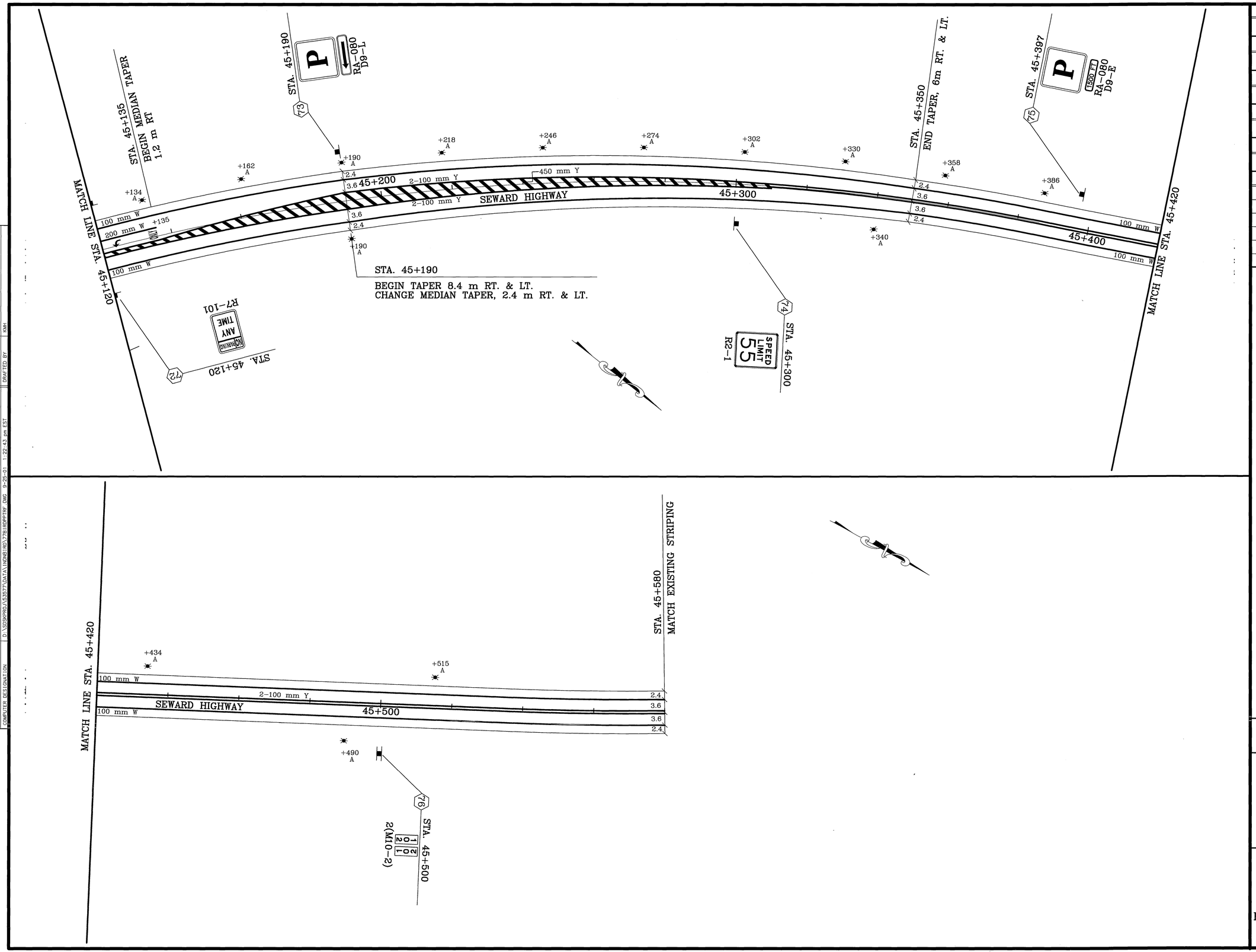
STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
9-17-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY & RECREATIONAL IMPROVEMENTS

SIGNING AND STRIPING

SPECIFICATIONS		DESIGNED BY
SCALE 1=1	AUTOCAD-KAREN-	CHECKED BY
COMPUTER DESIGNATION	D:\SBSPROJ\53577\DATA\NBNBIRD\7B1ROPTRF.DWG 9-25-01	DRAFTED BY KMH
	VIEW=HALF01 AT:5 9-25-01 1:22:43 pm EST	



SHEET NO.	TOTAL SHEETS
J16	J32
STATE	YEAR
ALASKA	2002

PROJECT DESIGNATION

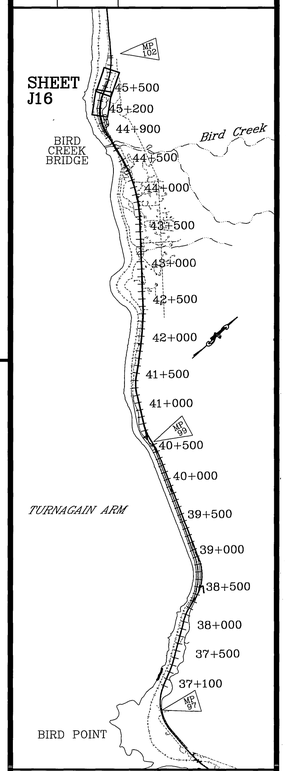
NH-0A3-1(28)

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE:
DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
6-17-02
REGISTERED PROFESSIONAL ENGINEER

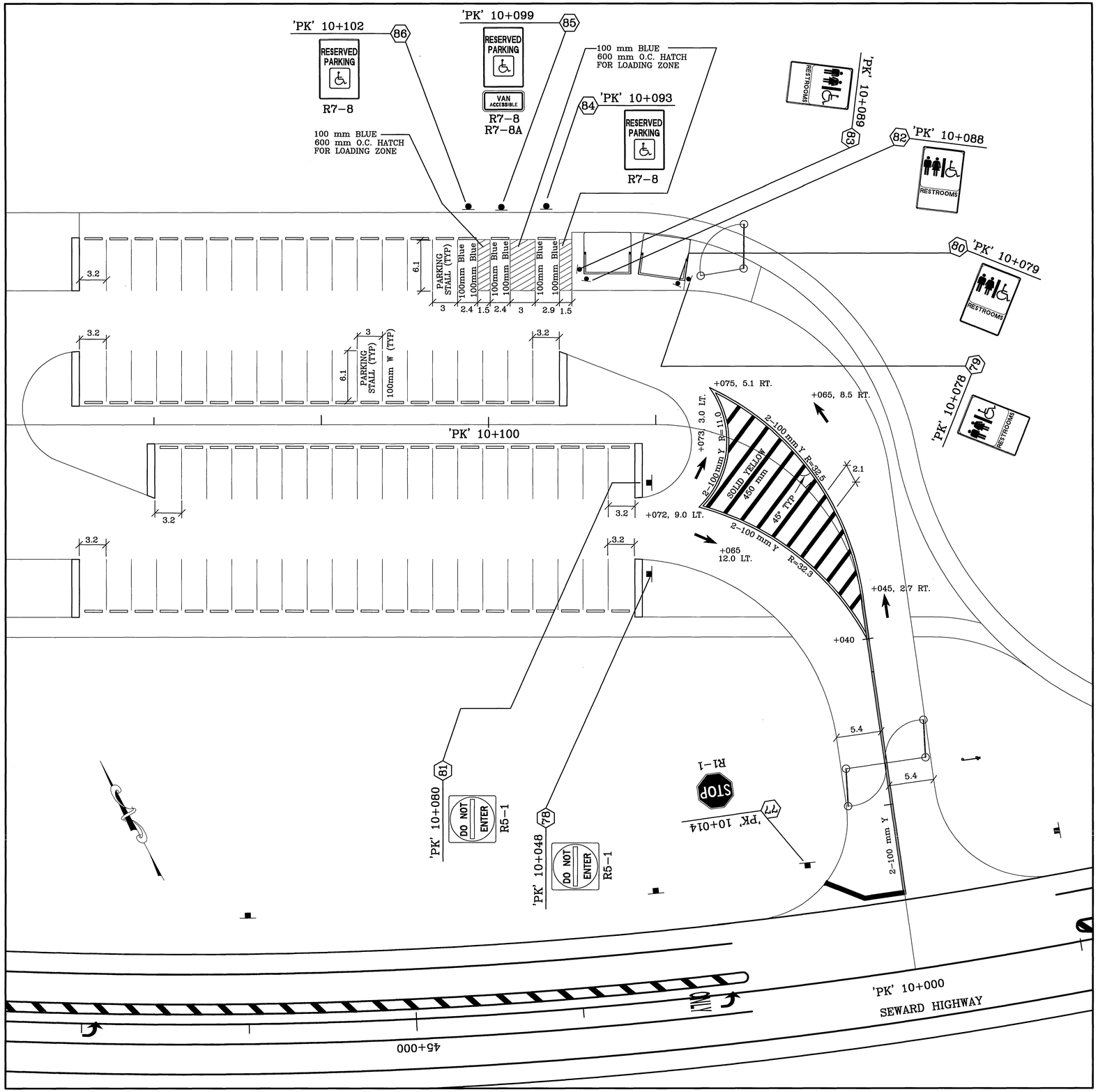
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

SIGNING AND STRIPING

DESIGNED BY	
CHECKED BY	
DRAFTED BY	KMH
VIEW=HALF02 AT .5	
1:22:43 pm EST	
AUTOCAD-KAREN-	
D:\SISSPROJ\A3S27\DATA\INDNS1RD\77B1RDPPTRF.DWG 9-25-01	
SPECIFICATIONS	
SCALE 1=1	
COMPUTER DESIGNATION	

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	J17	J32



SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION 53577\DATA\77PARKTRP.DWG 11-14-02
VIEW=HALF01 AT 25
DESIGNED BY
CHECKED BY
DRAFTED BY NKG

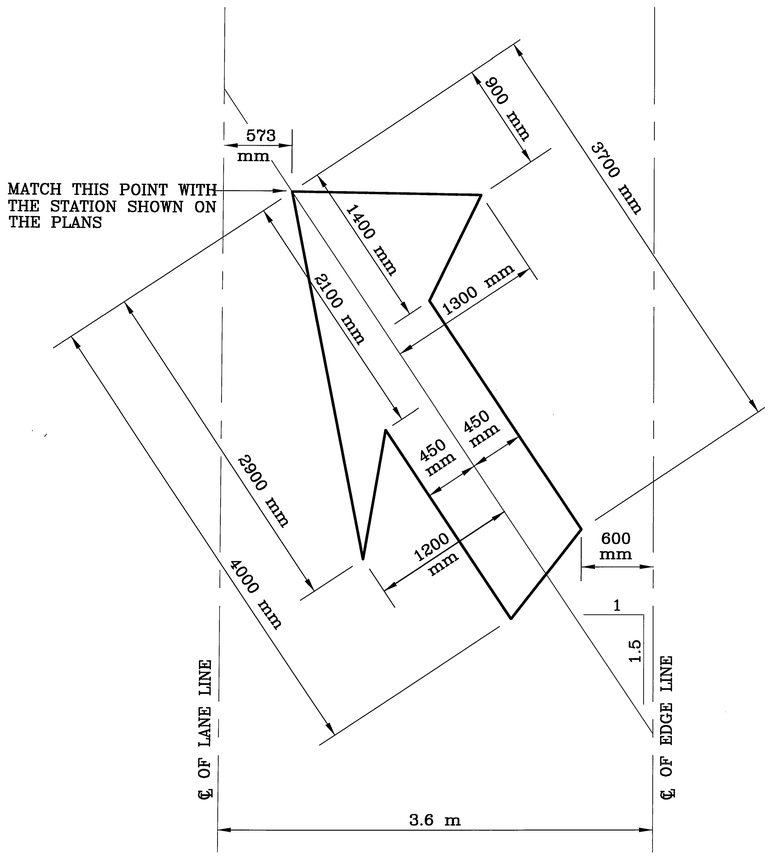
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

STATE OF ALASKA 49TH JUDY J. DOUGHERTY CE 8823 11-26-02 REGISTERED PROFESSIONAL ENGINEER

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

BIRD CREEK PARKING LOT
SIGNING AND STRIPING

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	J18	J32

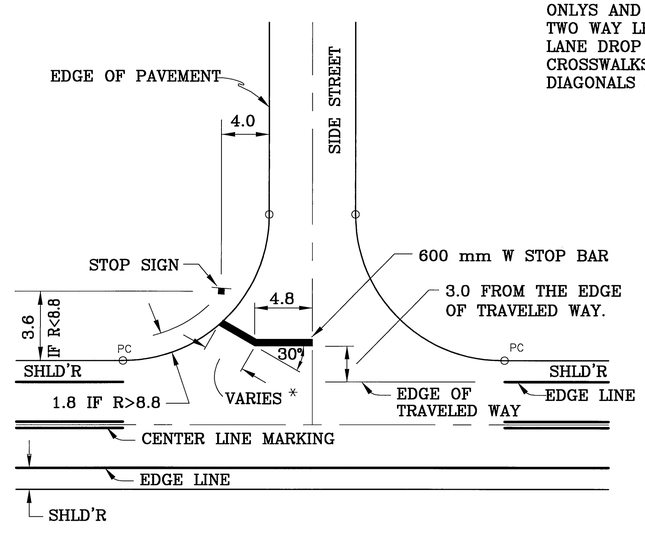


LANE DROP ARROW DETAIL

STRIPING NOTES:

1. ALL FINAL PAVEMENT MARKINGS SHALL BE METHYLMETHACRYLATE.
2. USE V=40 KPH FOR "ONLY" AND "ARROW" SEPARATION "D" AS SHOWN ON STANDARD DRAWING T-21.02[M].
3. DIMENSIONS REFERENCE FACE OF CURB, EDGE OF PAVEMENT OR CENTER OF STRIPE.
4. USE S=450 mm FOR "APPROACH TO OBSTRUCTIONS" MARKING LAYOUT AS SHOWN ON STANDARD DRAWING T-20.01[M].
5. MATCH THE EXISTING STRIPING OF SEWARD HIGHWAY OR REESTABLISH AS DIRECTED BY THE ENGINEER.
6. THE BEGINNING AND ENDING OF THE NO PASSING ZONES SHOWN ARE APPROXIMATE. THE ENGINEER WILL ESTABLISH THE ACTUAL BEGINNING AND ENDING OF THE NO PASSING ZONES IN THE FIELD.
7. INSTALL ALL PAVEMENT MARKINGS AT A 2.3 mm YIELD THICKNESS, EXCEPT THE FOLLOWING MARKINGS:

PAVEMENT MARKING TYPE	YIELD THICKNESS
ONLYS AND ARROWS	3.0 mm
TWO WAY LEFT TURN ARROWS	3.0 mm
LANE DROP ARROWS	3.0 mm
CROSSWALKS & STOP BARS	3.0 mm
DIAGONALS & CHEVRONS	1.5 mm



STOP BAR AND STOP SIGN INSTALLATION DETAIL

(WITHOUT PATHWAY)

* OMIT ANGLE IF IS LESS THAN 2.4 m.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

STRIPING DETAILS

SPECIFICATIONS | DESIGNED BY
SCALE 1=1 | CHECKED BY | VIEW=HALF @ 1
COMPUTER DESIGNATION | DRAFTED BY | KAH
AUTOCAD-KAREN-D:\SESSPROJ\S597\DATA\NIONBRID\72BBPTFBAR.DWG 9-25-01 1:30:08 pm EST

SIGN SUMMARY

REVISIONS		
No.	DATE	DESCRIPTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0A3-1(28)	2002	J19	J32

THIS SHEET IS REPLACED BY SHEET J19A

SHEET NO.	POST NO.	STATION	REF. CL	TYPE	LEGEND	SIZE METER W	SIZE METER H	AREA (m2)	SIGN FACES	POST SIZE	THICKNESS (mm) FRAMED	THICKNESS (mm) UNFRAMED	REMARKS
J1	1		RT.	R4-6A	PASSING LANE 1 MILE	1.05	1.20	1.26	S	1-75 mm T.		3.2	SEE SIGNING AND STRIPING SHEET FOR LOCATION
J1	2		RT.	R4-6A	PASSING LANE 1/2 MILE	1.05	1.20	1.26	S	1-75 mm T.		3.2	SEE SIGNING AND STRIPING SHEET FOR LOCATION
J1	3	37+300	RT.	R2-1	SPEED LIMIT 65	0.75	0.9	0.68	S	1-75 mm T.		3.2	
J1	4	37+494	LT.	W14-5A	ROAD CLOSED 1500 FT	0.9	0.9	0.81	N	1-75 mm T.		3.2	HINGE SIGN
J1	5	37+510	RT.	2(M10-2)	9/7 8/6	0.15	0.3	0.09	N/S	1-65 mm P.T.		3.2	
J1	6	37+634	LT.	W6-3		0.9	0.9	0.81	N	1-75 mm T.		3.2	
J1	7	37+647	RT.	R4-3A	KEEP RIGHT EXCEPT TO PASS	0.9	1.20	1.08	S	1-65 mm P.T.		3.2	
J2	8	37+727	LT.	W16-6	END AVALANCHE AREA	0.9	0.9	0.81	N	1-75 mm T.		3.2	
J2	9	37+727	RT.	SPECIAL	AVALANCHE AREA NEXT 2 MILES / DO NOT STOP	2.6	1.2	3.12	S	2-80 mm P.	3.2		HINGE SIGN SEE SPECIFICATIONS
J2	10	37+817	RT.	W6-4 (1-2)		1.2	1.2	1.44	S	1-90 mm T.	3.2		
J3	11	38+450	RT.	R4-3A	KEEP RIGHT EXCEPT TO PASS	0.9	1.20	1.08	S	1-65 mm P.T.		3.2	
J3	12	38+817	RT.	W6-4 (1-2)		1.2	1.2	1.44	S	1-90 mm T.	3.2		
J3	13	38+881	LT.	W6-4 (2-1)		1.2	1.2	1.44	E	1-90 mm T.	3.2		
J4	14	39+120	RT.	2(M10-2)	9/8 8/6	0.15	0.3	0.09	E/W	1-65 mm P.T.		3.2	
J4	15	39+250	RT.	R4-3A	KEEP RIGHT EXCEPT TO PASS	0.9	1.20	1.08	S	1-65 mm P.T.		3.2	
J5	16	39+799	RT.	W9-1R	RIGHT LANE ENDS	0.9	0.9	0.81	E	1-75 mm T.		3.2	
J5	17	39+881	LT.	W6-4 (2-1)		1.2	1.2	1.44	W	1-90 mm T.	3.2		
J5	18	39+951	RT.	W4-2R		0.9	0.9	0.81	E	1-75 mm T.		3.2	
J5	19	40+033	LT.	R4-2	PASS WITH CARE	0.6	0.75	0.45	W	1-65 mm P.T.		3.2	

NOTE REFERENCES

1. MOVE EXISTING SIGN IF HORIZONTAL CLEARANCE FROM ANY PART OF THE SIGN AND THE PATHWAY IS LESS THAN 0.6m. NEW LOCATION SHALL BE APPROVED BY THE ENGINEER.

STATE OF ALASKA
JUDY A. DOUGHERTY
CE 8823
6/17/02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

SIGN SUMMARY

DESIGNED BY
CHECKED BY
DRAFTED BY KMH
6/13/02

LTSCALE = 1 VIEW= 1
AUTOCAD-AARCN-53577/SUMSION
SPECIFICATIONS
SCALE N/A
COMPUTER DESIGNATION

SIGN SUMMARY

CHANGE ORDER NO. 6
ATTACHMENT 'A'
SHEET 7 OF 8

REVISIONS		
No.	DATE	DESCRIPTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0A3-1(28)	2004	J19A	J32

SHEET NO.	POST NO.	STATION	REF. CL	TYPE	LEGEND	SIZE METER W	SIZE METER H	AREA (m2)	SIGN FACES	POST SIZE	THICKNESS (mm) FRAMED	THICKNESS (mm) UNFRAMED	REMARKS
J1	1		RT.	R4-6A	PASSING LANE 1 MILE	1.05	1.20	1.26	S	1-75 mm T.		3.2	SEE SIGNING AND STRIPING SHEET FOR LOCATION
J1	2		RT.	R4-6A	PASSING LANE 1/2 MILE	1.05	1.20	1.26	S	1-75 mm T.		3.2	SEE SIGNING AND STRIPING SHEET FOR LOCATION
J1	3	37+300	RT.	R2-1	SPEED LIMIT 65	0.75	0.9	0.68	S	1-75 mm T.		3.2	
J1	4	37+494	LT.	W14-5A	ROAD CLOSED 1500 FT	0.9	0.9	0.81	N	1-75 mm T.		3.2	HINGE SIGN
J1	5	37+510	RT.	2(M10-2)	9/7 L/6	0.15	0.3	0.09	N/S	1-65 mm P.T.		3.2	
J1	6	37+634	LT.	W6-3		0.9	0.9	0.81	N	1-75 mm T.		3.2	
J1	7	37+647	RT.	R4-3A	KEEP RIGHT EXCEPT TO PASS	0.9	1.20	1.08	S	1-65 mm P.T.		3.2	
J2A	8	37+727	LT.	W16-6	END AVALANCHE AREA	0.9	0.9	0.81	N	1-75 mm T.		3.2	
J2A	9	37+727	RT.	SPECIAL	AVALANCHE AREA NEXT 2 MILES / DO NOT STOP	2.6	1.2	3.12	S	2-80 mm P.	3.2		HINGE SIGN SEE SPECIFICATIONS
J2A	10	37+817	RT.	W6-4 (1-2)		1.2	1.2	1.44	S	1-90 mm T.	3.2		
J3A	11	38+450	RT.	R4-3A	KEEP RIGHT EXCEPT TO PASS	0.9	1.20	1.08	S	1-65 mm P.T.		3.2	
J3A	12	38+780	LT.	W4-2R		1.2	1.2	1.44	W	1-75 mm T.		3.2	
J3A	13	38+780	RT.	SPECIAL		1.2	1.2	1.44	E	1-75 mm T.		3.2	
J3A	14	38+930	LT.	W9-1R	RIGHT LANE ENDS	1.2	1.2	1.44	W	1-75 mm T.		3.2	
J4A	15	39+120	RT.	2(M10-2)	9/8 8/6	0.15	0.3	0.09	E/W	1-65 mm P.T.		3.2	
J4A	16	39+250	RT.	R4-3A	KEEP RIGHT EXCEPT TO PASS	0.9	1.20	1.08	S	1-65 mm P.T.		3.2	
J4A	16A	39+490	LT.	R4-3A	KEEP RIGHT EXCEPT TO PASS	0.9	1.20	1.08	W	1-65 mm P.T.		3.2	
J5A	17	39+799	RT.	W9-1R	RIGHT LANE ENDS	0.9	0.9	0.81	E	1-75 mm T.		3.2	
J5A	18	39+951	RT.	W4-2R		0.9	0.9	0.81	E	1-75 mm T.		3.2	

NOTE REFERENCES

1. MOVE EXISTING SIGN IF HORIZONTAL CLEARANCE FROM ANY PART OF THE SIGN AND THE PATHWAY IS LESS THAN 0.6m. NEW LOCATION SHALL BE APPROVED BY THE ENGINEER.

STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

SIGN SUMMARY

AS-BUILT 4/1/12

SPECIFICATIONS
SCALE 1=1
COMPUTER ESTIMATION
AUTOCAD-CARDLEE 54433\SIGNSTON_CHANGEORDER
LTSCALE = 1 VIEW= 1
DESIGNED BY
CHECKED BY CJ
DRAFTED BY 4/27/04

SIGN SUMMARY

REVISIONS		
No.	DATE	DESCRIPTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0A3-1(28)	2002	J20	J32

THIS SHEET IS REPLACED BY SHEET J20A

SHEET NO.	POST NO.	STATION	REF. CL	TYPE	LEGEND	SIZE METER W	SIZE METER H	AREA (m2)	SIGN FACES	POST SIZE	THICKNESS (mm) FRAMED	THICKNESS (mm) UNFRAMED	REMARKS
J6	20	40+246	RT.	R2-5C	SPEED ZONE AHEAD	0.45	0.6	0.27	E	1-65 mm P.T.		3.2	
J6	21	40+407	RT.	R2-1	SPEED LIMIT 55	0.75	0.9	0.68	E	1-75 mm T.		3.2	
J6	22	40+410	LT.	R2-1	SPEED LIMIT 65	0.75	0.9	0.68	W	1-75 mm T.		3.2	
J6	23	40+649	RT.	2(M10-2)	9 9 6 6	0.15	0.3	0.09	E/W	1-65 mm P.T.		3.2	
J6	24	40+700	LT.	SPECIAL	AVALANCHE AREA NEXT 2 MILES / DO NOT STOP	2.6	1.2	3.12	W	2-80 mm P.	3.2		HINGE SIGN SEE SPECIFICATIONS
J7	25	40+729	RT.	W16-6	END AVALANCHE AREA	0.9	0.9	0.81	E	1-75 mm T.		3.2	
J7	26	40+890	RT.	R2-1	SPEED LIMIT 55	0.75	0.9	0.68	E	1-75 mm T.		3.2	

SHEET NO.	POST NO.	STATION	REF. CL	TYPE	LEGEND	SIZE METER W	SIZE METER H	AREA (m2)	SIGN FACES	POST SIZE	THICKNESS (mm) FRAMED	THICKNESS (mm) UNFRAMED	REMARKS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

SIGN SUMMARY

STATE OF ALASKA 49TH JUDY DOUGHERTY CE 8823 REGISTERED PROFESSIONAL ENGINEER 6-17-02

SPECIFICATIONS
SCALE: N/A
COMPUTER DESIGNATION
AUTOCAD-KAREN-53577/SIMUSION
LTSCALE = 1
VIEW= 2
DESIGNED BY
CHECKED BY
DRAFTED BY KMH
6/12/02

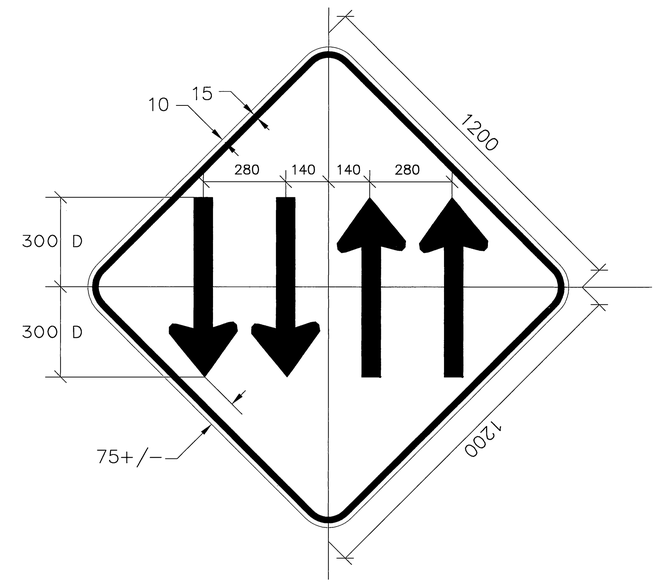
SIGN SUMMARY

REVISIONS		
No.	DATE	DESCRIPTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0A3-1(28)	2004	J20A	J32

CHANGE ORDER NO. 6
ATTACHMENT 'A'
SHEET 8 OF 8

SHEET NO.	POST NO.	STATION	REF. CL	TYPE	LEGEND	SIZE METER W	SIZE METER H	AREA (m2)	SIGN FACES	POST SIZE	THICKNESS (mm) FRAMED	THICKNESS (mm) UNFRAMED	REMARKS
J6A	19	40+200	LT.	SPECIAL		1.2	1.2	1.44	W	1-75 mm T.		3.2	
J6A	20	40+246	RT.	R2-5C	SPEED ZONE AHEAD	0.45	0.6	0.27	E	1-65 mm P.T.		3.2	
J6A	21	40+407	RT.	R2-1	SPEED LIMIT 55	0.75	0.9	0.68	E	1-75 mm T.		3.2	
J6A	22	40+410	LT.	R2-1	SPEED LIMIT 65	0.75	0.9	0.68	W	1-75 mm T.		3.2	
J6A	23	40+649	RT.	2(M10-2)	9 9 6 6	0.15	0.3	0.09	E/W	1-65 mm P.T.		3.2	
J6A	24	40+700	LT.	SPECIAL	AVALANCHE AREA NEXT 2 MILES / DO NOT STOP	2.6	1.2	3.12	W	2-80 mm P.	3.2		HINGE SIGN SEE SPECIFICATIONS
J7A	25	40+729	RT.	W16-6	END AVALANCHE AREA	0.9	0.9	0.81	E	1-75 mm T.		3.2	
J7A	26	40+890	RT.	R2-1	SPEED LIMIT 55	0.75	0.9	0.68	E	1-75 mm T.		3.2	
J7A	26A	41+080	LT.	R4-6A	PASSING LANE 1/2 MILE	1.05	1.20	1.26	W	1-75 mm T.		3.2	
J7A	26B	41+885	LT.	R4-6A	PASSING LANE 1 MILE	1.05	1.20	1.26	W	1-75 mm T.		3.2	



SPECIAL DETAIL

150 SERIES D CAPS
LEGEND - BLACK
BACKGROUND - WHITE

AS-BUILT 4/1/12

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-CAROLEE 54433.SUMS1(OL_CHANGEORDER
LTSCALE = 1 VIEW= 2
DESIGNED BY
CHECKED BY CJ
DRAFTED BY 4/26/04

STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

SIGN SUMMARY

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	J21	J32

SHEET NO.	POST NO.	STATION	REF. CL	TYPE	LEGEND	SIZE Meter W	SIZE Meter H	AREA (m^2)	SIGN FACES	POST SIZE	THICKNESS (mm) FRAMED	THICKNESS (mm) UNFRAMED	REMARKS
J10	27	42+012	RT.	R11-101	ROAD CLOSED AVALANCHE AREA	0.6	1.5	0.90	W			3.2	INSTALL ON AVALANCHE GATE
			RT.	2(OM-3R)		0.90	0.30	0.54	W			3.2	INSTALL ON AVALANCHE GATE
J10	28	42+012	LT.	R11-2	ROAD CLOSED	1.2	0.75	0.90	W			3.2	INSTALL ON AVALANCHE GATE
			LT.	2(OM-3L)		0.90	0.30	0.54	W			3.2	INSTALL ON AVALANCHE GATE
J10	29	42+239	LT.	W14-5A	ROAD CLOSED 500 FT	0.90	0.90	0.81	W	1-75 mm T.		3.2	HINGE SIGN
					SNOW SLIDES	0.60	0.60	0.36	W			3.2	BLACK ON YELLOW
J10	30	42+263	RT.	2(M10-2)	100 001	0.15	0.3	0.09	E/W	1-65 mm P.T.		3.2	
J10	31	42+389	LT.	W14-5A	ROAD CLOSED 1000 FT	0.90	0.90	0.81	W	1-75 mm T.		3.2	HINGE SIGN
					SNOW SLIDES	0.60	0.60	0.36	W			3.2	BLACK ON YELLOW
J10	32	42+539	LT.	W14-5A	ROAD CLOSED 1500 FT	0.90	0.90	0.81	W	1-75 mm T.		3.2	HINGE SIGN
J11	33	42+644	RT.	R1-1	STOP	0.75	0.75	0.56	N	1-65 mm P.T.		3.2	
J11	34	42+881	RT.	W11-2		0.90	0.90	0.81	W	1-75 mm T.		3.2	
			RT.	W13-1A	NEXT 1 MILE	0.60	0.45	0.27	W				

SHEET NO.	POST NO.	STATION	REF. CL	TYPE	LEGEND	SIZE Meter W	SIZE Meter H	AREA (m^2)	SIGN FACES	POST SIZE	THICKNESS (mm) FRAMED	THICKNESS (mm) UNFRAMED	REMARKS
J12	35	43+254	RT.	R1-1	STOP	0.75	0.75	0.56	N	1-65 mm P.T.		3.2	
				D3-1A	KONIKSON RD	1.20	0.23	0.55	E/W			3.2	2 SIGNS BACK TO BACK
J12	36	43+559	LT.	R1-1	STOP	0.75	0.75	0.56	S	1-65 mm P.T.		3.2	
				R5-1	DO NOT ENTER	0.60	0.60	0.36	N			3.2	
				R6-1L	ONE WAY	0.90	0.30	0.27	E			3.2	
				R6-RL	ONE WAY	0.90	0.30	0.27	W			3.2	
J12	37	43+568	RT.	R1-1	STOP	0.75	0.75	0.56	N	1-65 mm P.T.		3.2	
				D3-1A	SAWMILL RD	1.20	0.23	0.55	E/W			3.2	2 SIGNS BACK TO BACK
J13	38	43+757	RT.	R1-1	STOP	0.75	0.75	0.56	N	1-65 mm P.T.		3.2	
				D3-1A	STELLAR JAY LN	1.50	0.23	0.69	E/W			3.2	2 SIGNS BACK TO BACK

STATE OF ALASKA
JUDY J. DOUGHERTY
CE 8823
REGISTERED PROFESSIONAL ENGINEER
6-17-02

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

SIGN SUMMARY

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
LTSCALE = 1
AUTOCAD-KAREN- D:\SBSKPROJ\3357\DATA\INDNBIRD\7590NSUM.DWG 9-26-01 1:32:13 pm EST VIEW: SS1
DESIGNED BY
CHECKED BY
DRAFTED BY KMH

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	J22	J32

SHEET NO.	POST NO.	STATION	REF. CL	TYPE	LEGEND	SIZE Meter W	SIZE Meter H	AREA (m^2)	SIGN FACES	POST SIZE	THICKNESS (mm) FRAMED	THICKNESS (mm) UNFRAMED	REMARKS
J13	39	43+851	RT.	2(M10-2)	101 101	0.15	0.3	0.09	E/W	1-65 mm P.T.		3.2	
J13	40	44+140	RT.	RCIA		1.05	1.5		W	2-100 mm P.			REMOVE AND RELOCATE
			RT.	RCIA		1.05	1.5		W				REMOVE AND RELOCATE
			RT.	RCIA		0.45	0.69		W				REMOVE AND RELOCATE
J13	41	44+210	RT.	R7-101	NO PARKING ANY TIME	0.3	0.45	0.14	S	1-65 mm P.T.		3.2	
J13	42	44+238	LT.	R1-1	STOP	0.75	0.75	0.56	S	1-65 mm P.T.		3.2	
			LT.	RCIA		0.45	0.60		E				REMOVE AND RELOCATE
J13	43	44+260	RT.	R1-1	STOP	0.75	0.75	0.56	N	1-65 mm P.T.		3.2	
J13	44	44+310	RT.	R7-101	NO PARKING ANY TIME	0.3	0.45	0.14	S	1-65 mm P.T.		3.2	
J13	45		LT.	R7-101		0.3	0.45	0.14	N	1-65 mm P.T.		3.2	
J13	46	44+350	RT.	RCIA		1.05	1.5		E	2-100 mm P.			REMOVE AND RELOCATE
			RT.	RCIA		1.05	1.5		E				REMOVE AND RELOCATE
			RT.	RCIA		0.45	0.69		E				REMOVE AND RELOCATE
J13	47	44+360	RT.	R7-101	NO PARKING ANY TIME	0.3	0.45	0.14	S	1-65 mm P.T.		3.2	
			RT.	SPECIAL		0.3	0.45		E				REMOVE AND RELOCATE
J14	48	44+410	RT.	R7-101	NO PARKING ANY TIME	0.3	0.45	0.14	S	1-65 mm P.T.		3.2	
			RT.	SPECIAL		0.3	0.45		E				REMOVE AND RELOCATE
J14	49	44+410	LT.	R7-101	NO PARKING ANY TIME	0.3	0.45	0.14	N	1-65 mm P.T.		3.2	

SHEET NO.	POST NO.	STATION	REF. CL	TYPE	LEGEND	SIZE Meter W	SIZE Meter H	AREA (m^2)	SIGN FACES	POST SIZE	THICKNESS (mm) FRAMED	THICKNESS (mm) UNFRAMED	REMARKS
	50	44+460	RT.	R7-101	NO PARKING ANY TIME	0.3	0.45	0.14	S	1-65 mm P.T.		3.2	
			RT.	SPECIAL		0.3	0.45		E				REMOVE AND RELOCATE
	51	44+460	LT.	R7-101	NO PARKING ANY TIME	0.3	0.45	0.14	N	1-65 mm P.T.		3.2	

STATE OF ALASKA
JUDY J. BOUGHERTY
CE 8823
6-17-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

SIGN SUMMARY

DESIGNED BY
CHECKED BY
DRAFTED BY KMH

LTSCALE = 1
VIEW= SS2
AUTOCAD-KAREN- D:\SDSKPROJ\53577\DATA\NDNBIRD\77SKNSUM.DWG 9-26-01 1:32:13 pm EST

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	J23	J32

SHEET NO.	POST NO.	STATION	REF. CL	TYPE	LEGEND	SIZE Meter W	SIZE Meter H	AREA (m^2)	SIGN FACES	POST SIZE	THICKNESS (mm) FRAMED	THICKNESS (mm) UNFRAMED	REMARKS
J15	52	44+550	RT.	RA-080	P	0.6	0.6	0.36	E	1-65 mm P.T.		3.2	
				D9-E	1500 FT	0.6	0.15	0.09	E			3.2	WHITE ON BROWN
J15	53	44+550	LT.	R7-101	NO PARKING ANY TIME	0.3	0.45	0.14	N	1-65 mm P.T.		3.2	
J15	54	44+600	RT.	R7-101	NO PARKING ANY TIME	0.3	0.45	0.14	S	1-65 mm P.T.		3.2	
J15	55		LT.	R7-101		0.3	0.45	0.14	N	1-65 mm P.T.		3.2	
J15	56	44+650	RT.	I-3	BIRD CREEK	1.35	0.9	1.22	E	2-80 mm P.		3.2	SEE SPECIFICATIONS
J15	57	44+713	LT.	I-3	BIRD CREEK	1.35	0.9	1.22	W	2-80 mm P.		3.2	SEE SPECIFICATIONS
J15	58	44+770	RT.	I-150		0.75	0.9		E	1-65 mm P.T.		3.2	REMOVE AND RELOCATE
J15	59	44+770	LT.	R7-101	NO PARKING ANY TIME	0.3	0.45	0.14	N	1-65 mm P.T.		3.2	
J15	60	44+820	RT.	R7-101	NO PARKING ANY TIME	0.3	0.45	0.14	S	1-65 mm P.T.		3.2	
J15	61	44+821	LT.	I-150		0.75	0.9		E	1-65 mm P.T.		3.2	REMOVE AND RELOCATE
J15	62	44+870	RT.	R7-101	NO PARKING ANY TIME	0.3	0.45	0.14	S	1-65 mm P.T.		3.2	
J15	63	44+920	RT.		Alaska State Parks P BIRD CREEK →	1.2	0.9	1.08	E	1-75 mm T.		3.2	SEE SPECIFICATIONS
J15	64	44+920	LT.	R7-101	NO PARKING ANY TIME	0.3	0.45	0.14	N	1-65 mm P.T.		3.2	

SHEET NO.	POST NO.	STATION	REF. CL	TYPE	LEGEND	SIZE Meter W	SIZE Meter H	AREA (m^2)	SIGN FACES	POST SIZE	THICKNESS (mm) FRAMED	THICKNESS (mm) UNFRAMED	REMARKS
J15	65	44+970	LT.		Alaska State Parks P BIRD CREEK →	1.2	0.9	1.08	W	1-75 mm T.		3.2	SEE SPECIFICATIONS
J15	66	44+970	RT.	R7-101	NO PARKING ANY TIME	0.3	0.45	0.14	S	1-65 mm P.T.		3.2	
J15	67	45+020	RT.	R7-101	NO PARKING ANY TIME	0.3	0.45	0.14	S	1-65 mm P.T.		3.2	
J15	68		LT.	R7-101		0.3	0.45	0.14	N	1-65 mm P.T.		3.2	
J15	69	45+070	RT.	R7-101	NO PARKING ANY TIME	0.3	0.45	0.14	S	1-65 mm P.T.		3.2	
J15	70		LT.	R7-101		0.3	0.45	0.14	N	1-65 mm P.T.		3.2	
J15	71	45+120	LT.	R7-101	NO PARKING ANY TIME	0.3	0.45	0.14	N	1-65 mm P.T.		3.2	
J16	72		RT.	R7-101		0.3	0.45	0.14	S	1-65 mm P.T.		3.2	
J16	73	45+190	LT.	RA-080	P	0.6	0.6	0.36	N	1-65 mm P.T.		3.2	
				D9-L	←	0.6	0.15	0.09	N			3.2	WHITE ON BROWN
J16	74	45+300	RT.	R2-1	SPEED LIMIT 55	0.75	0.90	0.68	S	1-75 mm T.		3.2	
J16	75	45+397	LT.	RA-080	P	0.6	0.6	0.36	N	1-65 mm P.T.		3.2	
				D9-E	1500 FT	0.6	0.15	0.09	N			3.2	WHITE ON BROWN

STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
6-17-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

SIGN SUMMARY

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-KAREN- D:\SDSKPROJ\35677\DATA\INDHBIRD\77525NSM.DWG 8-25-01 1:32:13 pm EST
LTSCALE = 1 VIEW: SS3
DESIGNED BY
CHECKED BY
DRAFTED BY KMH

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	J24	J32

SHEET NO.	POST NO.	STATION	REF. CL	TYPE	LEGEND	SIZE Meter W	SIZE Meter H	AREA (m^2)	SIGN FACES	POST SIZE	THICKNESS (mm) FRAMED	THICKNESS (mm) UNFRAMED	REMARKS
J16	76	45+500	RT.	2(M10-2)	102 201	0.15	0.3	0.09	N/S	1-65 mm P.T.		3.2	
J17	77	'PK' 10+014	LT.	R1-1	STOP	0.75	0.75	0.56	N	1-65 mm P.T.		3.2	
J17	78	'PK' 10+048	LT.	R5-1	DO NOT ENTER	0.9	0.9	0.81	E	1-75 mm T.		3.2	
J17	79	'PK' 10+078	RT.		RESTROOMS	0.23	0.15	0.04	E				INSTALL ON TOILET SCREEN SEE SPECIFICATIONS
J17	80	'PK' 10+079	RT.		RESTROOMS	0.23	0.15	0.04	S				INSTALL ON TOILET SCREEN SEE SPECIFICATIONS
J17	81	'PK' 10+080	LT.	R5-1	DO NOT ENTER	0.9	0.9	0.81	E	1-75 mm T.		3.2	
J17	82	'PK' 10+088	RT.		RESTROOMS	0.23	0.15	0.04	S				INSTALL ON TOILET SCREEN SEE SPECIFICATIONS
J17	83	'PK' 10+089	RT.		RESTROOMS	0.23	0.15	0.04	W				INSTALL ON TOILET SCREEN SEE SPECIFICATIONS
J17	84	'PK' 10+093	RT.	R7-8	RESERVED PARKING	0.3	0.6	0.18	S	1-65 mm P.T.		3.2	
J17	85	'PK' 10+099	RT.	R7-8	RESERVED PARKING	0.3	0.6	0.18	S	1-65 mm P.T.		3.2	
				R7-8A	VAN ACCESSIBLE	0.3	0.2	0.06	S				
J17	86	'PK' 10+120	RT.	R7-8	RESERVED PARKING	0.3	0.6	0.18	S	1-65 mm P.T.		3.2	

SHEET NO.	POST NO.	STATION	REF. CL	TYPE	LEGEND	SIZE Meter W	SIZE Meter H	AREA (m^2)	SIGN FACES	POST SIZE	THICKNESS (mm) FRAMED	THICKNESS (mm) UNFRAMED	REMARKS

STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
11-14-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

SIGN SUMMARY

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-KAREN- 53577\DATA\77SGNSUM.DWG 11-13-02
LTSCALE = 1
VIEW- SS4
DESIGNED BY
CHECKED BY
DRAFTED BY
KMH

RAILROAD SIGN SUMMARY

REVISIONS		
No.	DATE	DESCRIPTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0A3-1(28)	2002	J25	J32

SHEET NO.	POST NO.	STATION	REF. CL	TYPE	LEGEND	SIZE METER W	SIZE METER H	AREA (m^2)	SIGN FACES	POST SIZE	THICKNESS (mm) FRAMED	THICKNESS (mm) UNFRAMED	REMARKS
		'R' 2+071	LT.	RAILROAD		0.30	0.23	0.07	N	1-65 mm P.T.		3.2	SEE RAILROAD STANDARD DRAWING 30.10
		'R' 2+100	RT.	RAILROAD	ALASKA RAILROAD PROPERTY NO TRESPASSING	0.60	0.60	0.36	E	1-65 mm P.T.		3.2	SEE RAILROAD STANDARD DRAWING 30.93 SIGN B
		'R' 2+500	RT.	RAILROAD	ALASKA RAILROAD PROPERTY NO TRESPASSING	0.60	0.60	0.36	E	1-65 mm P.T.		3.2	SEE RAILROAD STANDARD DRAWING 30.93 SIGN B
		'R' 2+700	RT.	RAILROAD	88	0.20	0.30	0.12	N/S	1-65 mm P.T.		3.2	SEE RAILROAD STANDARD DRAWING 30.2
					33	0.20	0.30	0.12	N/S			3.2	
		'R' 2+780	LT.	RAILROAD	S	0.30	0.23	0.07	N	1-65 mm P.T.		3.2	SEE RAILROAD STANDARD DRAWING 30.10
		'R' 3+050	RT.	RAILROAD	ALASKA RAILROAD PROPERTY NO TRESPASSING	0.60	0.60	0.36	N	1-65 mm P.T.		3.2	SEE RAILROAD STANDARD DRAWING 30.93 SIGN B
		'R' 3+102	RT.	RAILROAD	25	0.75	0.30	0.23	S	1-65 mm P.T.		3.2	SEE RAILROAD STANDARD DRAWING 30.91
		'R' 3+500	RT.	RAILROAD	ALASKA RAILROAD PROPERTY NO TRESPASSING	0.60	0.60	0.36	N	1-65 mm P.T.		3.2	SEE RAILROAD STANDARD DRAWING 30.93 SIGN B
		'R' 3+880	RT.	SPECIAL		0.45	0.45	0.20	N	1-65 mm P.T.		3.2	SEE SPECIFICATIONS
					STAY OFF TRACKS	0.30	0.45	0.14	N			3.2	SEE SPECIFICATIONS
		'R' 3+907	RT.	RAILROAD	25	0.30	0.51	0.15	S	1-65 mm P.T.		3.2	SEE RAILROAD STANDARD DRAWING 30.91
		'R' 3+907	LT.	RAILROAD	35	0.30	0.51	0.15	N	1-65 mm P.T.		3.2	SEE RAILROAD STANDARD DRAWING 30.91
		'R' 3+940	LT.	RAILROAD	BEGIN SLIDE ZONE 83 / END SLIDE ZONE 83	0.75	0.30	0.34	N/S	1-65 mm P.T.		3.2	SEE RAILROAD STANDARD DRAWING 30.22 "BEGIN SLIDE ZONE" SIDE FACES NORTH

SHEET NO.	POST NO.	STATION	REF. CL	TYPE	LEGEND	SIZE METER W	SIZE METER H	AREA (m^2)	SIGN FACES	POST SIZE	THICKNESS (mm) FRAMED	THICKNESS (mm) UNFRAMED	REMARKS
		'R' 4+240	RT.	SPECIAL		0.45	0.45	0.20	E	1-65 mm P.T.		3.2	SEE SPECIFICATIONS
					STAY OFF TRACKS	0.30	0.45	0.14	E			3.2	SEE SPECIFICATIONS
		'R' 4+360	RT.	RAILROAD	88	0.20	0.30	0.12	N/S	1-65 mm P.T.		3.2	SEE RAILROAD STANDARD DRAWING 30.2
					44	0.20	0.30	0.12	N/S			3.2	
		'R' 4+580	RT.	SPECIAL		0.45	0.45	0.20	E	1-65 mm P.T.		3.2	SEE SPECIFICATIONS
					STAY OFF TRACKS	0.30	0.45	0.14	E			3.2	SEE SPECIFICATIONS
		'R' 5+035	LT.	RAILROAD	SZ-83	0.75	0.30	0.23	N	1-65 mm P.T.		3.2	SEE RAILROAD STANDARD DRAWING 30.21
		'R' 5+060	RT.	SPECIAL		0.45	0.45	0.20	E	1-65 mm P.T.		3.2	SEE SPECIFICATIONS
					STAY OFF TRACKS	0.30	0.45	0.14	E			3.2	SEE SPECIFICATIONS
		'R' 5+115	RT.	RAILROAD	25	0.75	0.30	0.23	S	1-65 mm P.T.		3.2	SEE RAILROAD STANDARD DRAWING 30.91

NOTE REFERENCES

1. ARRC SHALL FIELD VERIFY PLACEMENT OF NEW SIGNS BEFORE INSTALLATION.

STATE OF ALASKA
JUDY J. DOUGHERTY
CE 8823
6-17-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND RECREATIONAL IMPROVEMENTS

SIGN SUMMARY

SPECIFICATIONS | DESIGNED BY | 6/13/02
SCALE = 1 | VIEW= 3 | CHECKED BY | KMH
COMPUTER DESIGNATION | AUTOCAD-KAREN-53577/SUMSION | DRAFTED BY | LTSCALE = 1

REVISIONS		
No.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NHI-0A3-1(28)	2002	J26	J32

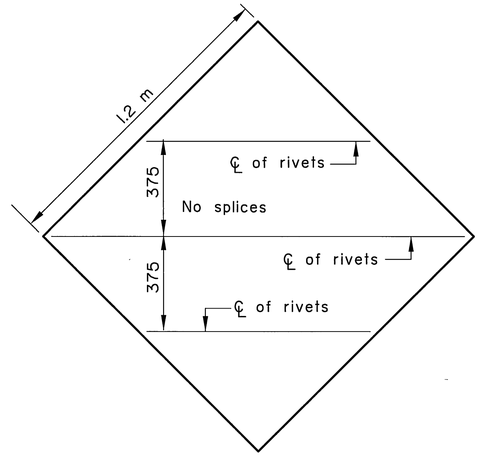
Sign Post Spacing for Pipe and Tube Sign Supports				
Sign Width	No. of Posts	Post Centers		
		Overhang	Between Post	Overhang
3.00 m	2	0.6 m	1 space at 1.8 m	0.6 m
3.15 m to 3.90 m	2	Varies	1.8 m	Varies

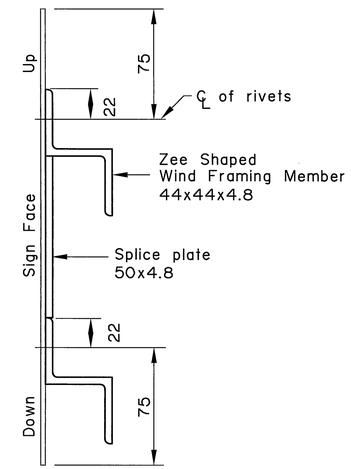
Limit the use of pipes and tubes to signs less than 4 m wide.

W Shape Sign Post Spacing				
Sign Width	No. of Posts	Post Centers		
		Overhang	Between Post	Overhang
3.00 m to 3.90 m	2	Varies	1 space at 2.40 m	Varies
4.05 m to 6.00 m	2	0.2W	1 space at 0.6W	0.18W
6.15 m to 6.75 m	3	Varies	2 spaces at 2.40 m	Varies
6.90m to 8.85 m	3	0.15W	2 spaces at 0.35W	0.045W
9.00 m to 9.45 m	4	Varies	3 spaces at 2.40 m	Varies
9.30 m to 12.00 m	4	0.125W	3 spaces at 0.25W	0.381W

Use w shape posts on signs at least 3.0 m wide.

SIGN POST SPACING

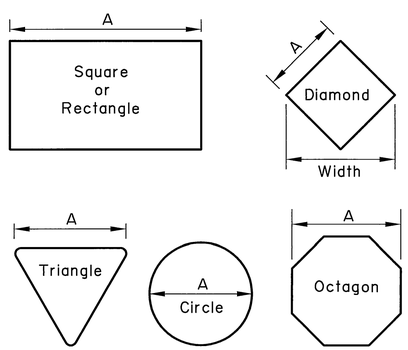




SECTION A - A

NOTES:

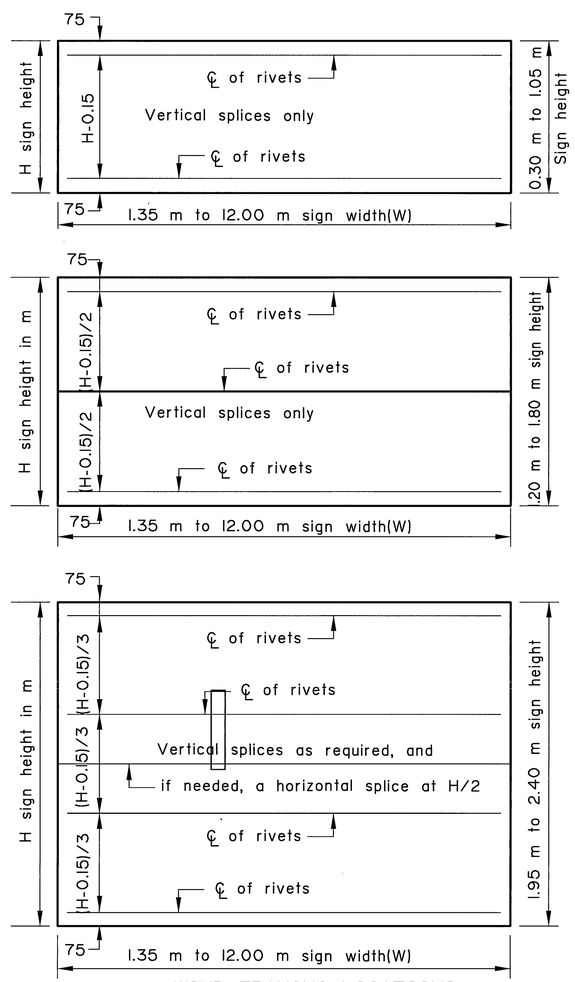
1. SEE THE STANDARD SPECIFICATIONS FOR THE ALUMINUM ALLOYS THAT YOU MAY USE FOR SIGN SHEETING AND WIND FRAMING MEMBERS.
2. FABRICATE ALL SIGNS FROM 3.2 mm THICK ALUMINUM SHEETING.
3. SIGN FABRICATORS MAY USE ALTERNATES TO THE ZEE SHAPED FRAMING MEMBER WITH APPROVAL OF THE ENGINEER, IF THE FRAME MANUFACTURER CERTIFIES THEIR DESIGN EQUALS OR EXCEEDS THE STRENGTH OF THE ZEE SHAPED DESIGN.
4. INSTALL ONE PIECE WIND FRAMING MEMBERS ON ALL SIGNS UP TO 7.20 m WIDE. USE ONE SPLICE IN EACH WIND FRAME ON ALL SIGNS WIDER THAN 7.2 m, LOCATING THE AT LEAST 450 mm FROM ALL POSTS AND PANEL EDGES. STAGGER THE SPLICE IN ADJACENT FRAMING MEMBERS AT LEAST 2.4 m APART.
5. ATTACH WIND FRAMING MEMBERS WITH RIVETS OR WITH AN ENGINEER APPROVED, DOUBLE SIDED, HIGH STRENGTH, ADHESIVE TAPE. CLEAN AND HANDLE THE SHEETING AND FRAMING MEMBERS AND APPLY THE TAPE IN ACCORDANCE WITH THE TAPE MANUFACTURER'S WRITTEN INSTRAUCTIONS. THE TAPE MANUFACTURER'S WRITTEN INSTRUCTIONS. INSTALL TWO RIVETS IN BOTH ENDS OF EACH FRAMING MEMBER.
6. USE 4.8 mm DIAMETER RIVETS CONFORMING TO ALUMINUM ALLOY 6061-T6 FOR COLD DRIVEN RIVETS, OR ALUMINUM ALLOY 6061-T43 FOR HOT DRIVEN RIVETS.
7. SIGN FABRICATORS MAY USE SIGN PANELS EXTRUDED WITH INTEGRAL FRAMING WITH APPROVAL OF THE ENGINEER, IF THE MANUFACTURER CERTIFIES THEIR DESIGN EQUALS OR EXCEEDS THE STRENGTH OF THE 3.2 mm THICK PANEL WITH FRAMING ATTACHED TO IT.
8. FRAME ALL SIGNS TALLER THAN 2.4 m WITH FIVE WIND FRAMING MEMBERS LOCATED (H-0.15)/4 SPACES. IF NEEDED, MAKE A HORIZONTAL SPICE AT THE MIDDLE WIND FRAME.



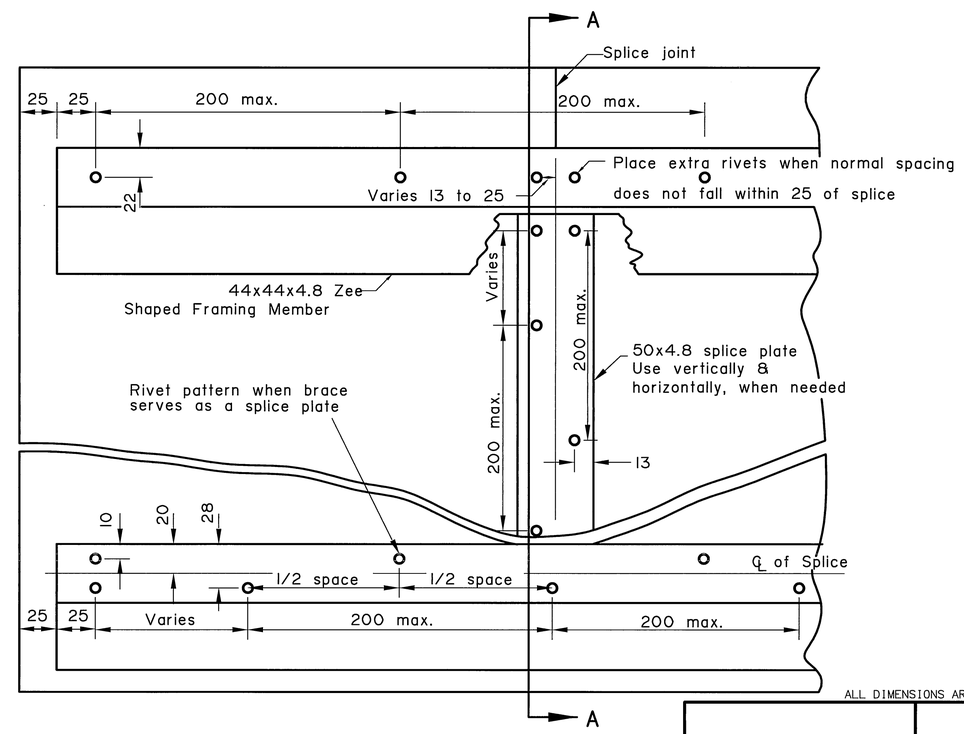
Maximum size unframed signs using 3.2 mm thick aluminum sheeting.	
Sign Shape	A
Squares, Shields, and Route Markers	1.20 m
Rectangles	1.20 m
Diamonds	1.20 m
Triangles	1.20 m
Rounds and Octagons	1.20 m

Install wind framing on all signs that exceed the dimensions listed.

LIGHT SIGNS



WIND FRAMING LOCATIONS



RIVET DETAIL FOR ZEE SHAPED WIND FRAMING & SPLICE PLATE

ALL DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED.

STATE OF ALASKA
KENNETH M. MORTON
CE 9139
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

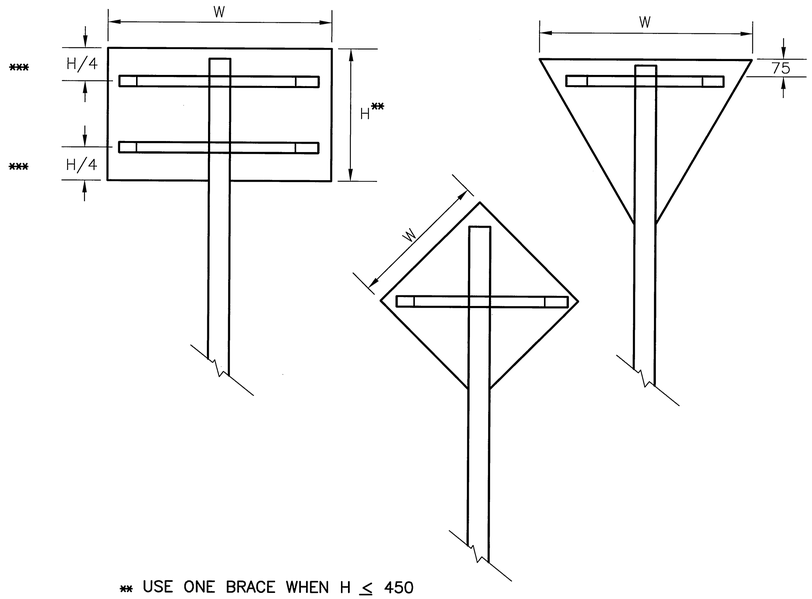
SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

WIND FRAMING DETAILS

VERSION: 11/7/0

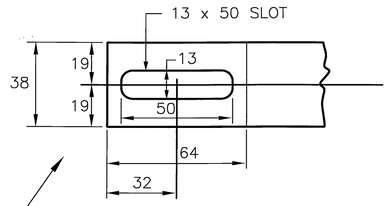
SPECIFICATIONS
SCALE: 1:1
COMPUTER DESIGNATION
AUTOCAD-MARY-TRAFFIC
D:\SDSKPRO\N35579\DATA\77\WINDFRAME\DWG.DWG 9-25-01 1:34:33 pm EST
PLOT SCALE: 1:1
DESIGNED BY
CHECKED BY
DRAFTED BY MRM

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NHI-0A3-1(28)	2002	J27	J32



** USE ONE BRACE WHEN H ≤ 450
USE TWO BRACES WHEN 450< H ≤ 1200
USE THREE BRACES WHEN H > 1200

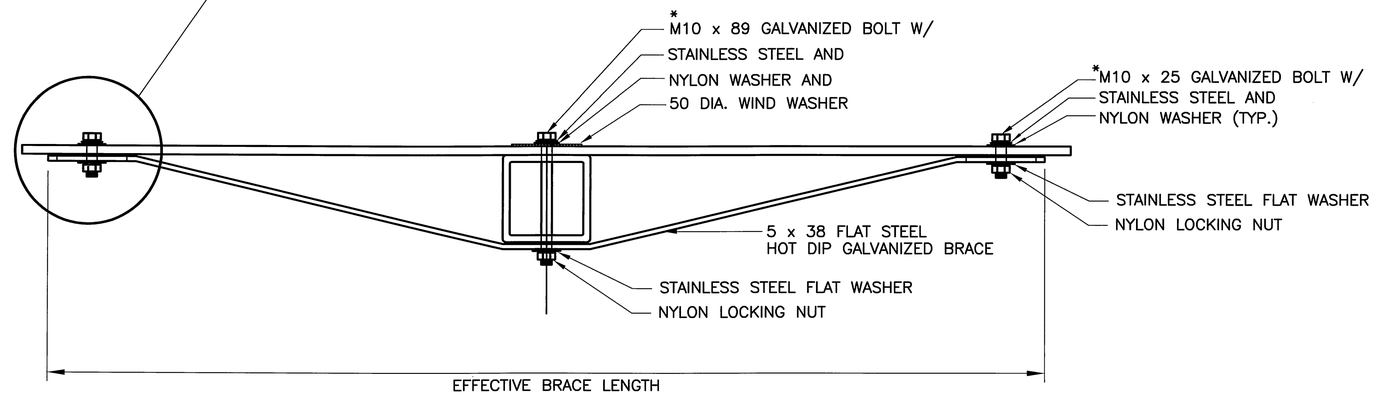
*** POSITION OF BRACE MAY BE VARIED TO MATCH PREDRILLED MOUNTING HOLES IN PANEL.



DETAIL OF BRACE SLOT

ELEVATION VIEW

*ADJUST LOCATION OF BRACING SO THAT BOLTS AND WASHERS WILL MISS THE LEGEND.



TUBE POST SIGN BRACING

PLAN VIEW

SIGN WIDTH(W)	EFFECTIVE BRACE LENGTH		
	WARNING	YIELD	OTHER
750	900	600	600
900	1050	750	750
1050	1200	–	900
1200	USE TWO POSTS	900	1050

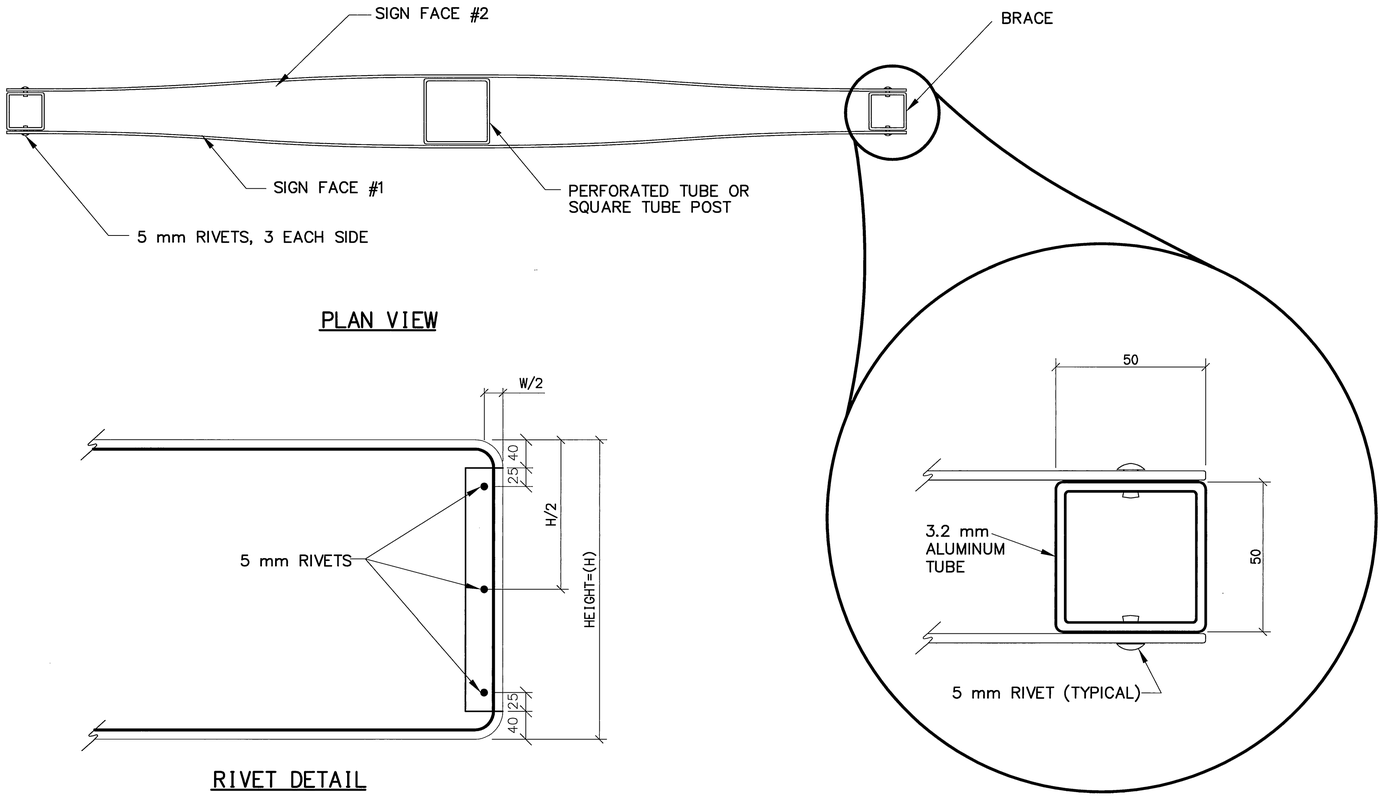
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

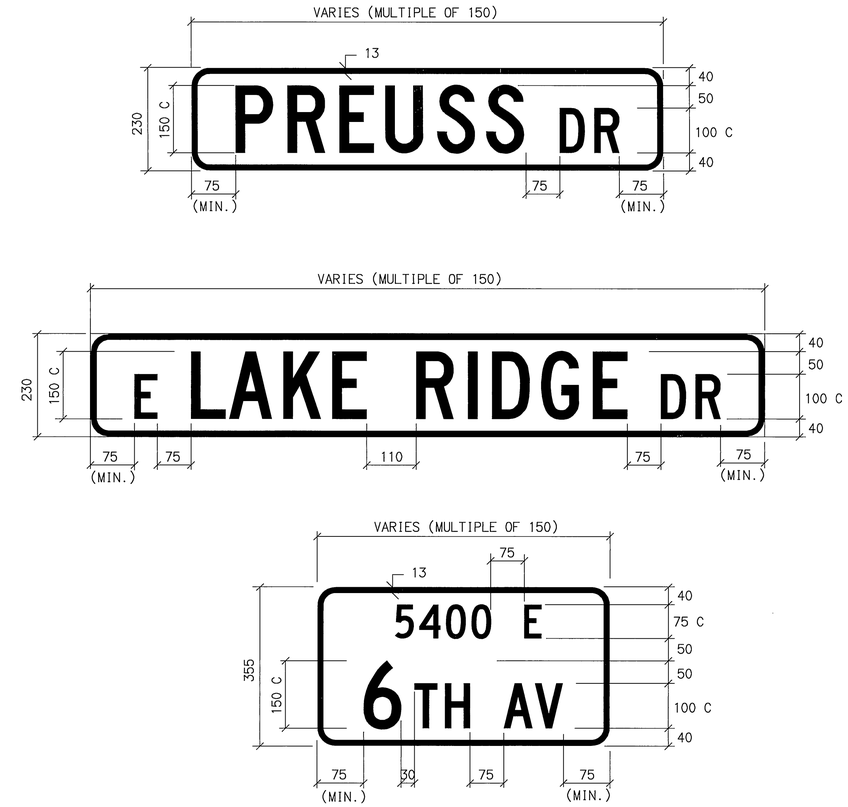
SIGN BRACING DETAIL
FOR TUBES

SPECIFICATIONS | DESIGNED BY
SCALE 1=1 | CHECKED BY
COMPUTER DESIGNATION: AUTOCAD-KAREN-D:\SDSKPROJ\68957\DATA\779SGNBRAC.DWG 9-25-01 1:38:44 pm EST | VIEW= | DRAFTED BY: KMH

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	NH-0A3-1(28)	2002	J28	J32

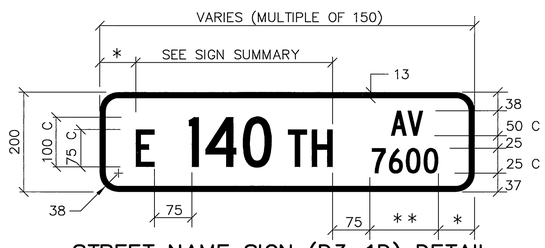


D3-1A SIGN BRACING DETAILS



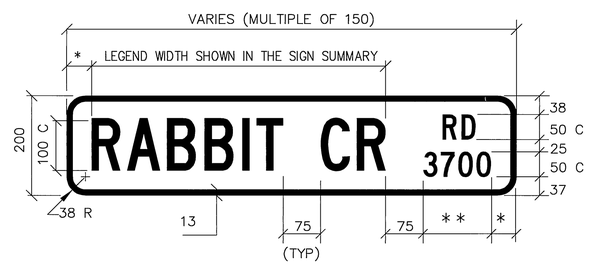
STREET NAME SIGN (D3-1A) DETAIL

TWO PANELS – SINGLE SIDED



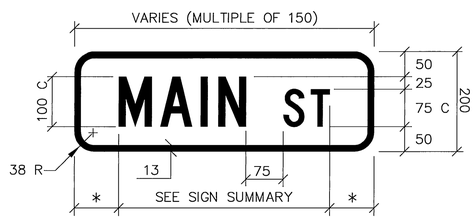
STREET NAME SIGN (D3-1D) DETAIL

SINGLE PANEL – DOUBLE SIDED



STREET NAME SIGN (D3-1D) DETAIL

SINGLE PANEL – DOUBLE SIDED



STREET NAME SIGN (D3-1) DETAIL

SINGLE PANEL – DOUBLE SIDED

* SEE SIGN SUMMARY TABLE FOR MARGIN WIDTH, 50mm MINIMUM FOR DESIGN

** SPACE = 138mm, IF NUMBER CONSISTS OF ANY 4 DIGITS
SPACE = 163mm, IF NUMBER CONSISTS OF 5 DIGITS BEGINNING WITH THE NUMBER 1
SPACE = 175mm, IF NUMBER CONSISTS OF ANY 5 DIGITS BEGINNING WITH ANY NUMBER LARGER THAN 1

SIGN NOTES:

1. USE D3-1 OR D3-1D STREET NAME SIGNS ON STOP-CONTROLLED APPROACHES AND ALL TWO-LANE ROADS WITH A POSTED SPEED OF 35 MPH OR LESS.
2. USE D3-1A STREET NAME SIGNS AT ALL OTHER LOCATIONS.
3. SIGN SUMMARY, WHERE PRESENT, SUPERCEDES THE ABOVE CRITERIA.
4. USE SERIES B LETTERING WHERE SIGN LENGTH EXCEEDS 1200mm.
5. FABRICATE SIGNS USING 3.2mm ALUMINUM PANELS.
6. FABRICATE SIGNS USING TYPE-3 (HIGH INTENSITY) REFLECTIVE SHEETING. USE WHITE FOR LEGENDS AND BORDERS AND GREEN FOR BACKGROUNDS.
7. MOUNT D3-1, D3-1D SIGNS IN ACCORDANCE WITH STANDARD DRAWING S-20.00[M].

STATE OF ALASKA
KENNETH M. MORTON
CE 9139
6-18-2
REGISTERED PROFESSIONAL ENGINEER

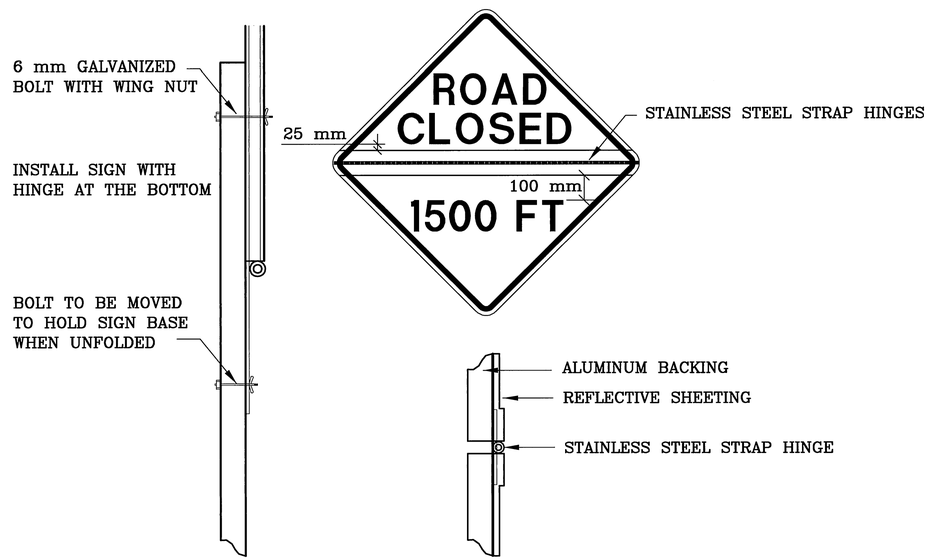
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

POST-MOUNTED INTERSECTION
STREET NAME SIGN DETAILS

SPECIFICATIONS	D:\SRSKPROJ\53577\DA1A\INDNBIND\77SIGNSTR.DWG 9-25-01 1:36:51 pm EST	DESIGNED BY	
SCALE: 1=1	AUTOCAD-MARY-TRAFFIC PLOT SCALE: 1=1	CHECKED BY	
COMPUTER DESIGNATION	D:\SRSKPROJ\53577\DA1A\INDNBIND\77SIGNSTR.DWG 9-25-01 1:38:51 pm EST	DRAWN BY	MDH

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NHI-0A3-1(28)	2002	J29	J32



HINGE SIGN DETAILS

SIGNING NOTES:

1. THE STATIONS AT WHICH THE SIGNS ARE TO BE INSTALLED ARE APPROXIMATE, INSTALL STOP SIGNS IN ACCORDANCE WITH THE STOP SIGN AND STOP BAR INSTALLATION DETAILS, AND ALL OTHER SIGNS AT LOCATIONS AS DIRECTED BY THE ENGINEER.

2. INTERPRET THE ABBREVIATED POST TYPE SHOWN IN THE SIGN SUMMARY AS FOLLOWS:
   - A. PT MEANS A PERFORATED STEEL TUBE.
   - B. T MEANS A SQUARE STEEL TUBE.
   - C. P MEANS A ROUND STEEL PIPE.
   - D. W MEANS A WIDE FLANGE BEAM.
   - E. POPL MEANS POLE PLATE INSTALLED PER DETAIL.

3. WHEN TUBES AND PIPES ARE USED TO SUPPORT A SIGN, INSTALL THE OUTER POSTS ON MAXIMUM 1.8 m CENTER. WHEN WIDE FLANGE POSTS ARE USED, INSTALL THE W SHAPE POSTS IN EACH SIGN INSTALLATION ON MINIMUM 2.4 m CENTERS.

4. FABRICATE THE POST(S) IN EACH SIGN INSTALLATION LONG ENOUGH TO PROVIDE THE FOLLOWING MINIMUM CLEARANCES.
   - A. 2.15 m BETWEEN THE BOTTOM OF SIGN AND THE EDGE OF PAVEMENT.
   - B. 2.15 m BETWEEN THE BOTTOM OF SIGN AND THE GROUND AT THE SHORTEST POST.
   - C. 2.75 m BETWEEN THE TOP OF SIGN AND THE GROUND AT THE SHORTEST POST.
   - D. 1.0 m BETWEEN THE GROUND AND THE CORNER OF SIGN IN A CUT SECTION.

5. IN EACH MULTI-POST SIGN INSTALLATION, FABRICATE THE POSTS WITH THEIR TOPS LEVEL WITH ONE ANOTHER.

6. INSTALL THE TOP EDGE OF ALL SIGN PANELS ABOVE AND WITHIN 25 mm OF THE TOP(S) OF SIGN POST(S), EXCEPT WHEN D3-1 STREET NAME SIGNS ARE TO BE INSTALLED.

7. ATTACH FRAMED SIGNS TO THEIR SUPPORT POSTS AT ALL LOCATIONS WHERE THE WIND BEAMS CROSS EACH POST.

8. FOR PERFORATED STEEL TUBES (PTs), INSTALL THE CONCRETE FOUNDATION OPTION SHOWN ON STANDARD DRAWING S-30.01[M].

9. PROVIDE 0.6 m OF CLEARANCE BETWEEN THE EDGE OF PATHWAYS AND EDGE OF SIGNS. FOR TRAPEZOIDAL SIGN ENDS OVER A PATHWAY, PROVIDE THE 0.6 m CLEARANCE TO AT LEAST 2.4 m ABOVE THE PATHWAY.

10. SIGN MOUNTING HEIGHT IS 2.1 m AS SHOWN ON STANDARD DRAWING S-05.00[M]. THIS ALSO APPLIES TO MILEPOST SIGNS. LOCATE MILE POST AS DIRECTED BY THE ENGINEER.

11. SINGLE POST SIGNS (NON D-3'S) WITH HORIZONTAL DIMENSIONS EQUAL TO OR GREATER THAN 0.6 m SHALL USE THE SIGN BRACING DETAIL FOR TUBES.

STATE OF ALASKA 49TH JUDY J. DOUGHERTY CE 8823 REGISTERED PROFESSIONAL ENGINEER 6-17-03

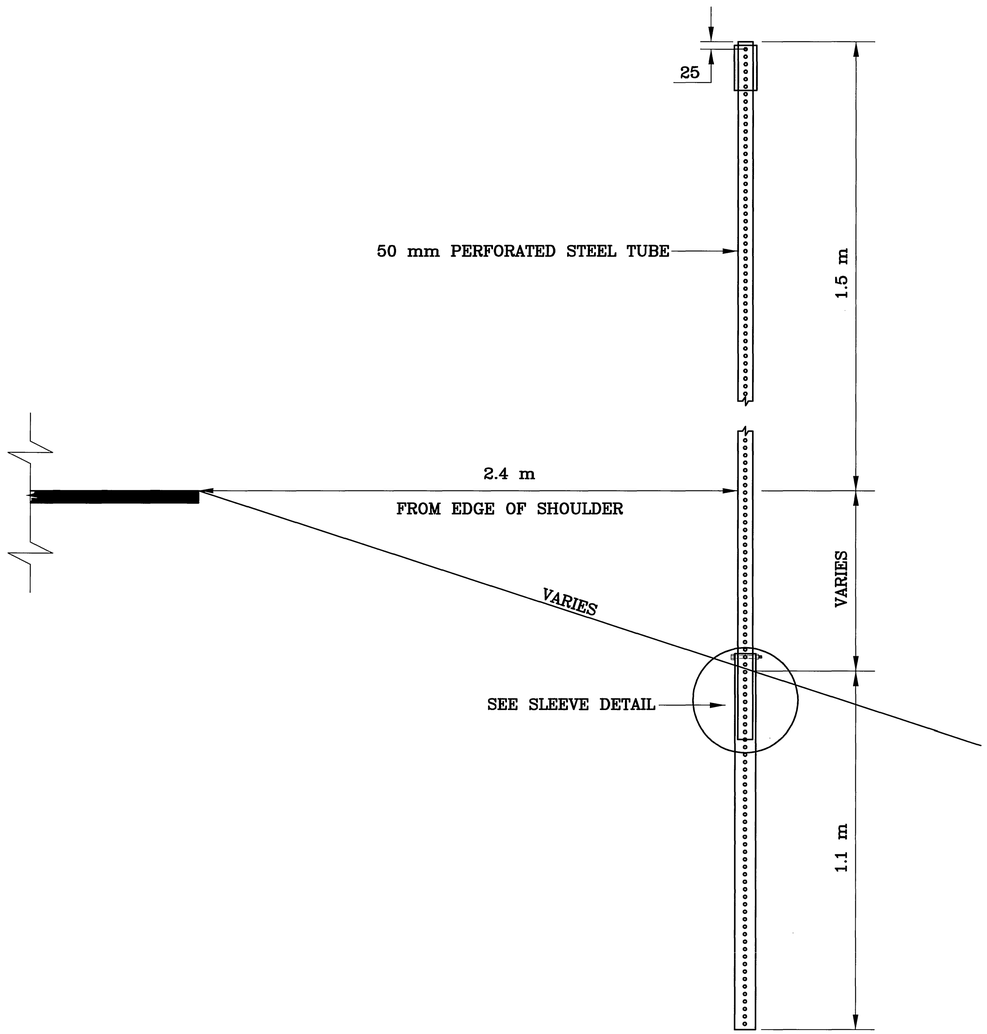
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

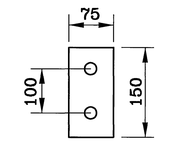
SIGNING DETAILS

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-KAREN-D:\SHSRPROJ\65977\DATA\77SSNOTLS.DWG 9-26-01 1:37:55 pm RST
VIEW=
DESIGNED BY
CHECKED BY
DRAFTED BY KMH

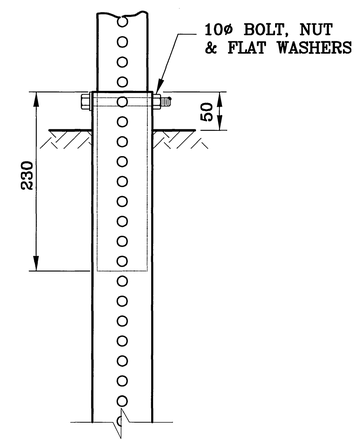
REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	J30	J32



DELINEATOR DETAIL



REFLECTOR



SLEEVE DETAIL

SPECIFICATIONS	
SCALE 1=	
COMPUTER DESIGNATION	AUTOCAD-KAREN-D:\SUSKPROJ\A5679\DATA\7DHLN.DWG 9-25-01 1:39:13 pm EST
VIEW=	
DESIGNED BY	JED
CHECKED BY	JED
DRAFTED BY	NKG
	2/16/01

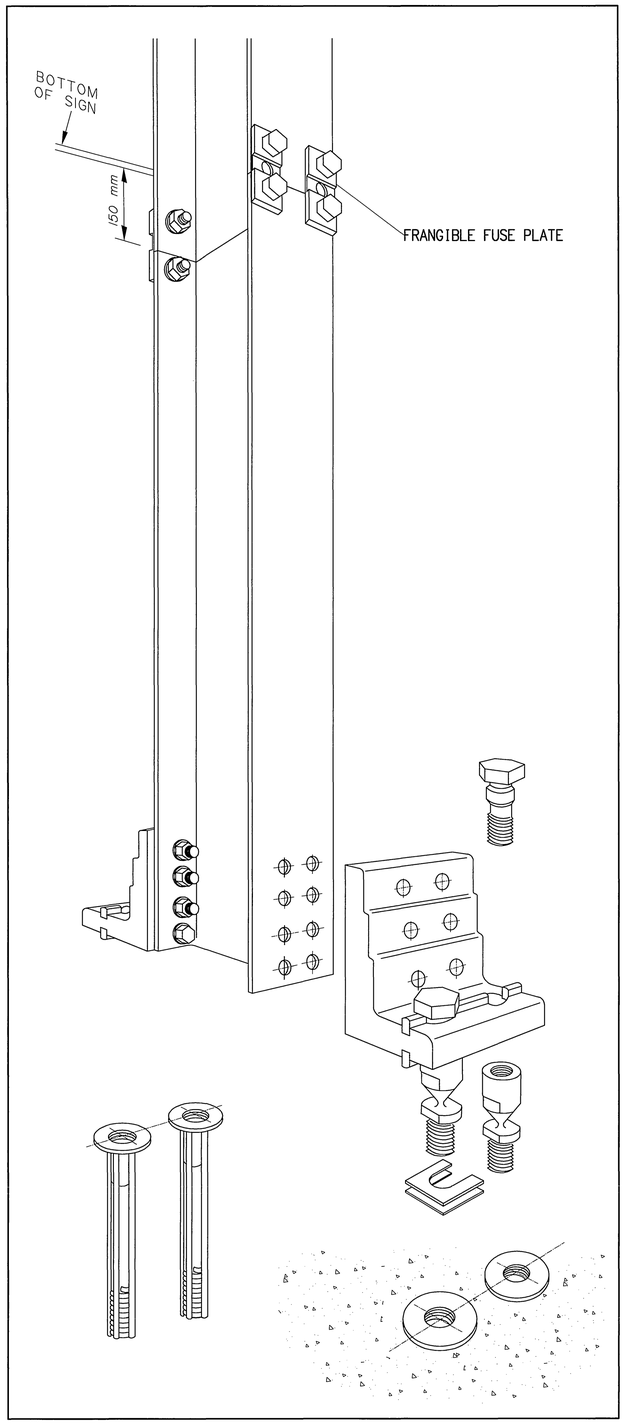
STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
6.17.02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

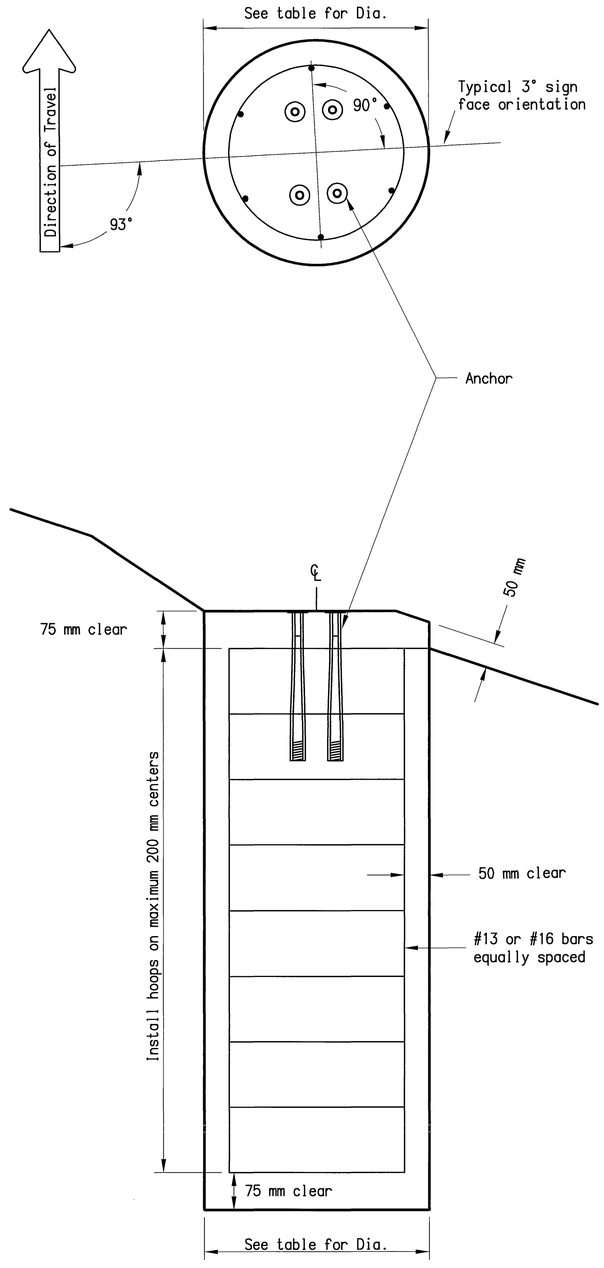
SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

DELINEATOR DETAILS

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	NHI-0A3-1(28)	2002	J31	J32



W SHAPE HINGED JOINT



SIGN POST FOUNDATION

Post Size & Type	Foundation *			Reinforcement						
				Vertical Bars			Hoops			
	Dia.	Min. Depth	m^3 Conc.	Qty	Size	Lgth.	Qty	Size	Dia.	Lgth.
65 mm Pipe	0.30	1.22	0.09	6	#13	1.07	7	#13	0.20	0.63
75 mm Pipe	0.46	1.22	0.20	6	#13	1.07	7	#13	0.36	1.13
90 mm Pipe	0.46	1.37	0.23	6	#13	1.22	8	#13	0.36	1.13
100 mm Pipe	0.46	1.52	0.25	6	#13	1.37	8	#13	0.36	1.13
65 mm Tube	0.30	1.37	0.10	6	#13	1.22	8	#13	0.20	0.63
75 mm Tube	0.46	1.22	0.20	6	#13	1.07	7	#13	0.36	1.13
90 mm Tube	0.46	1.37	0.23	6	#13	1.22	8	#13	0.36	1.13
100 mm Tube	0.76	1.22	0.55	7	#16	1.07	7	#13	0.66	2.07
115 mm Tube	0.76	1.37	0.62	7	#16	1.22	8	#13	0.66	2.07
125 mm Tube	0.76	1.68	0.76	7	#16	1.53	9	#13	0.66	2.07
W150 x 13	0.76	1.22	0.73	8	#16	1.07	7	#13	0.66	2.07
W150 x 18	0.76	1.37	0.82	8	#16	1.22	8	#13	0.66	2.07
W150 x 22	0.91	1.98	1.29	8	#16	1.83	11	#13	0.81	2.54
W150 x 30	0.91	2.29	1.49	8	#16	2.14	12	#13	0.81	2.54

*FOUNDATIONS SIZED FOR USE WHERE THERE ARE NO LOOSE, HIGH MOISTURE, OR FINE GRAINED SOILS. CONTACT THE STATE GEOTECHNICAL ENGINEER WHEN THESE SOILS ARE ENCOUNTERED.

FOUNDATION TABLE

ALL DIMENSIONS ARE IN METERS, EXCEPT WHERE NOTED

NOTES

1. FURNISH THE SIGN POSTS LISTED IN THE PLANS WITH NCHRP 350 COMPLIANT, FHWA APPROVED, FRANGIBLE COUPLING SUPPORTS, DESIGNED FOR USE WITH ALL DIRECTIONS OF IMPACT. THE FRANGIBLE COUPLINGS SHALL NOT REQUIRE SPECIFIC TORQUE REQUIREMENTS.

2. INSTALL FRANGIBLE FUSE PLATES ON ALL HINGED JOINTS IN W SHAPE SIGN POSTS.

3. CAST ALL SIGN POST FOUNDATIONS IN ACCORDANCE WITH ALASKA STANDARD SPECIFICATION 660-2.03. FURNISH GRADE 60 STEEL BARS FOR CONCRETE REINFORCEMENT CONFORMING TO AASHTO M31.

4. INSTALL THE ANCHORS USING TEMPLATES MADE FROM STEEL CHANNEL. LOCATE THE ANCHORS ON CENTERS RECOMMENDED BY THE BASE MANUFACTURER.

5. INSTALL THE ANCHORS IN FRESH CONCRETE AS RECOMMENDED BY THE MANUFACTURER. ADJUST THE TEMPLATE'S FINAL POSITION UNTIL IT IS LEVEL IN ALL DIRECTIONS USING A CARPENTERS LEVEL. REMOVE ALL FOUNDATIONS THAT NEED MORE THAN 2 SHIMS UNDER ANY 1 COUPLING OR MORE THAN 3 SHIMS UNDER ANY 2 COUPLINGS TO PLUMB THE POST. REPLACE ALL FOUNDATIONS THAT ARE REMOVED WITH FOUNDATIONS THAT MEET THE CRITERIA FOR LEVEL.

6. DRILL THE HOLES FOR ATTACHING BRACKETS BEFORE THE SIGN POSTS ARE HOT DIP GALVANIZED. TEST FIT TEMPLATES IN THE HOLES TO ENSURE THE BRACKETS CAN BE INSTALLED SQUARE TO THE POSTS. REMOVE ALL HOLES THAT DO NOT ALLOW THE BRACKETS TO BE SQUARED TO THE TUBE.

7. INSTALL THE COMPONENTS OF THE BREAKAWAY BASES IN ACCORDANCE WITH THE WRITTEN INSTALLATION INSTRUCTIONS OF THE BASE MANUFACTURER.

STATE OF ALASKA 49TH KENNETH M. MORTON CE 9139 6-18-2 REGISTERED PROFESSIONAL ENGINEER

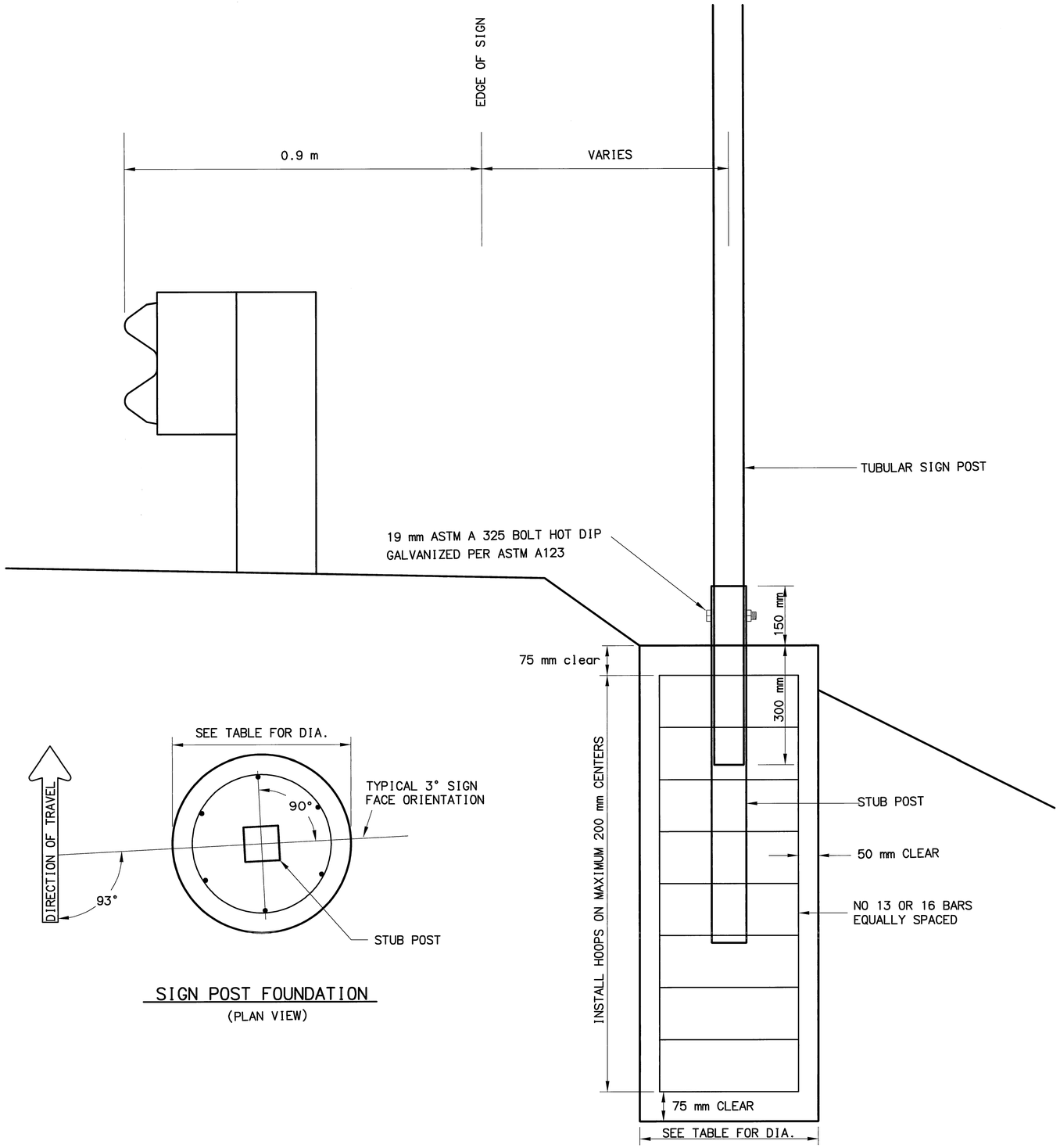
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

SIGN POST BASE
& FOUNDATION DETAILS

SPECIFICATIONS	AUTOCAD-MARY-TRAFFIC FOR STANDARD DRAWING	DESIGNED BY
SCALE: 1=1	AUTOCAD-KAREN FOR PROJECT	CHECKED BY
COMPUTER DESIGNATION	D:\SDSKPROJ\33377\DATA\7NET FOUNDWG 9-25-01 10:33 am EST	PLOT SCALE: 1=1
		DRAFTED BY MDH

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	NH-0A3-1(28)	2002	J32	J32



SIGN POST FOUNDATION
(PLAN VIEW)

SIGN POST FOUNDATION

NOTES:

1. INSTALL ALL SIGNS THAT FALL BEHIND A GUARDRAIL, BARRIER, OR WALL PER THE DETAILS SHOWN ON THIS SHEET. INSTALL SIGNS WITHIN 6 METERS OF GUARDRAIL TERMINAL ENDS ON BREAKAWAY BASES.
2. FURNISH STEEL TUBE SIGN POSTS THAT CONFORM TO A.S.T.M. A500, GRADE B, AND MEET A.S.T.M. A123 FOR HOT DIP GALVANIZING.
3. INSTALL TUBES AND STUB POSTS WITH A 4.76 mm WALL THICKNESS.
4. CAST THE SIGN FOUNDATIONS IN ACCORDANCE WITH ALASKA STANDARD SPECIFICATION 660-2.03. FURNISH GRADE 60 STEEL BARS FOR CONCRETE REINFORCEMENT CONFORMING TO AASHTO M31.

Post Size & Type	Foundation *			Reinforcement						Stub Post	
				Vertical Bars			Hoops			Sleeve	
	Dia.	Min. Depth	C.M. Conc.	Qty.	Size	Lgth.	Size	Dia.	Lgth.	Size	Length
65 mm Tube	0.30	1.35	0.10	6	#13	1.20	#13	0.20	6.4	75 mm	0.90
75 mm Tube	0.45	1.20	0.19	6	#13	1.05	#13	0.36	9.8	90 mm	0.90
90 mm Tube	0.45	1.35	0.21	6	#13	1.20	#13	0.36	11.2	100 mm	0.90
100 mm Tube	0.75	1.20	0.53	7	#16	1.05	#13	0.66	16.1	115 mm	0.90
115 mm Tube	0.75	1.35	0.60	7	#16	1.20	#13	0.66	18.4	125 mm	0.90

*FOUNDATIONS SIZED FOR USE WHERE THERE ARE NO LOOSE, HIGH MOISTURE, OR FINE GRAINED SOILS. CONTACT THE STATE GEOTECHNICAL ENGINEER WHEN THESE SOILS ARE ENCOUNTERED.

SPECIFICATIONS	
SCALE: 1=1	AUTOCAD-MARY-TRAFFIC
COMPUTER DESIGNATION	D:\SDSKPROJ\33577\DATA\77FUNDTN.DWG 9-25-01 1:43:36 pm EST
PLOT SCALE: 1=1	DESIGNED BY
	CHECKED BY
	DRAFTED BY WDH

STATE OF ALASKA
KENNETH M. MORTON
CE 9139
REGISTERED PROFESSIONAL ENGINEER
6-18-2

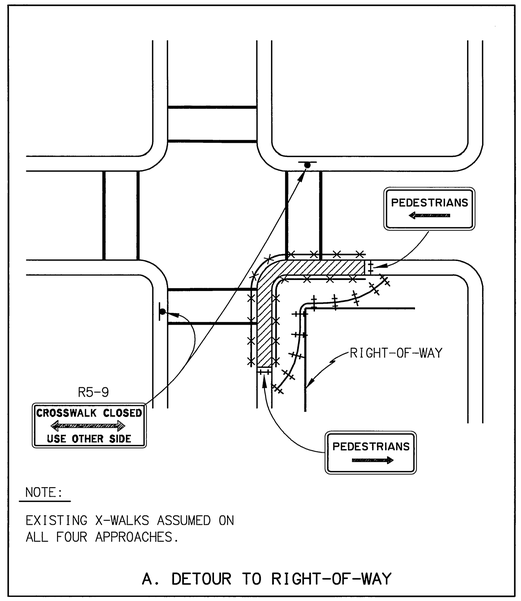
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

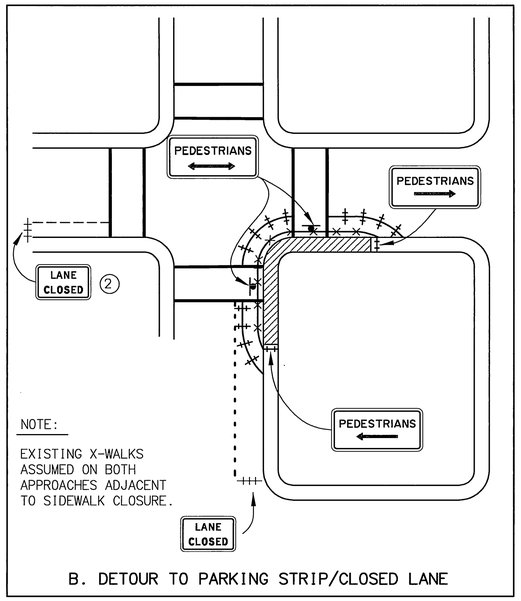
BEHIND GUARDRAIL SIGN POST
& FOUNDATION DETAILS

VERSION: 4/14/00

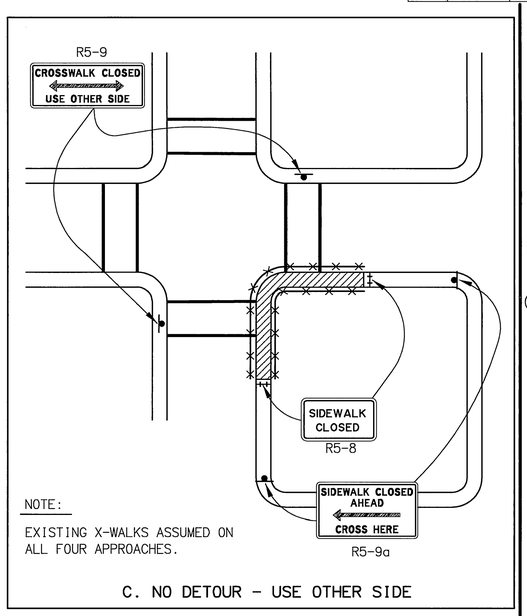
REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NHI-0A3-1(28)	2002	K1	K7
1	1/23/98	NOTE #4 PEDESTRIAN DETOUR					
2	23/2/99	SYMBOLS /B. LANES CLOSED /E. SIDEWALK					
3	2/7/00	MODIFIED TITLE					



A. DETOUR TO RIGHT-OF-WAY

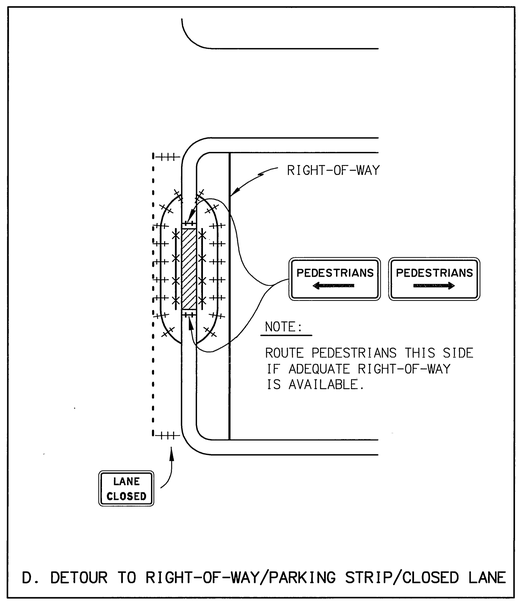


B. DETOUR TO PARKING STRIP/CLOSED LANE

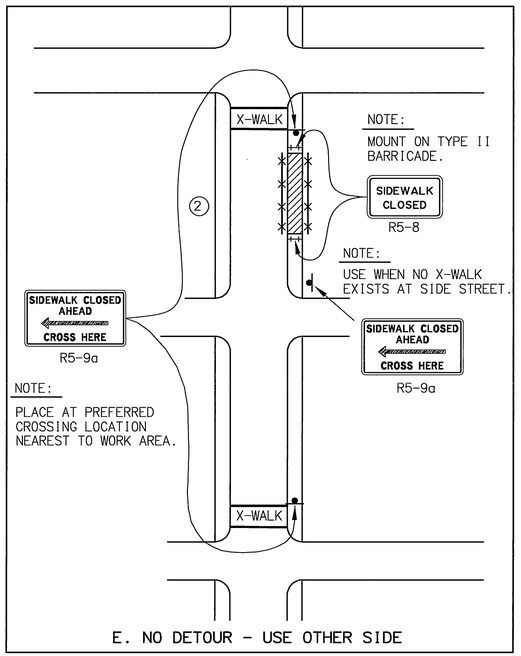


C. NO DETOUR - USE OTHER SIDE

TYPICAL SIDEWALK, PATHWAY, OR SHOULDER CLOSURE AT INTERSECTIONS

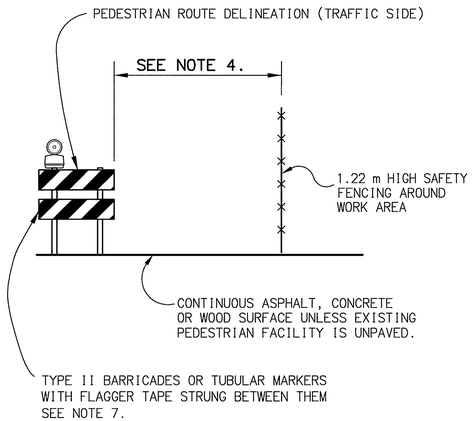


D. DETOUR TO RIGHT-OF-WAY/PARKING STRIP/CLOSED LANE



E. NO DETOUR - USE OTHER SIDE

TYPICAL SIDEWALK, PATHWAY OR SHOULDER CLOSURE AT MID-BLOCK LOCATIONS



TYPICAL SECTION
PEDESTRIAN DETOUR

3 NOTES:

1. LETTER SIZES ARE 75 MM CAPITALS, SERIES C.
2. WHENEVER PEDESTRIAN TRAFFIC CONTROL DEVICES ARE NOT IN PLACE OR ARE REMOVED TEMPORARILY TO ACCOMMODATE CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL PROVIDE A WORKER TO DIRECT PEDESTRIANS ALONG THE PROPER ROUTE.
3. USE WARNING LIGHTS IN ACCORDANCE WITH THE ALASKA TRAFFIC MANUAL DURING HOURS OF DARKNESS.
4. 1 MAINTAIN FULL EXISTING PEDESTRIAN FACILTY WIDTH UP TO 1.5 m.
5. ONLY THE TRAFFIC CONTROL DEVICES CONTROLLING PEDESTRIAN FLOWS ARE SHOWN. OTHER DEVICES MAY BE NEEDED TO CONTROL TRAFFIC ON THE ROADWAYS.
6. PLACE SIGNS ALONG A TEMPORARY WALKWAY TO GUIDE OR DIRECT PEDESTRIANS. EXAMPLES INCLUDE KEEP RIGHT AND KEEP LEFT.
7. ON ROADWAYS WITH A POSTED SPEED LIMIT GREATER THAN 40 mph USE PORTABLE CONCRETE BARRIERS OR A LANE OF THE ROADWAY TO SEPARATE PEDESTRIANS FROM TRAFFIC.
8. COVER PEDESTRIAN TRAFFIC SIGNAL DISPLAYS CONTROLLING CLOSED CROSSWALKS.

LEGEND:

- 2 TYPE II BARRICADE OR TUBULAR MARKER
- TYPE III BARRICADE
- SAFETY FENCE
- SIGN
- WORK AREA

ALL DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED.

STATE OF ALASKA
49TH
JUDY J. DOUGHERTY
CE 8823
6-17-02
REGISTERED PROFESSIONAL ENGINEER

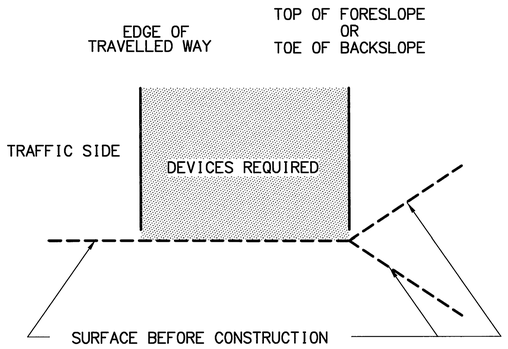
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY &
RECREATIONAL IMPROVEMENTS

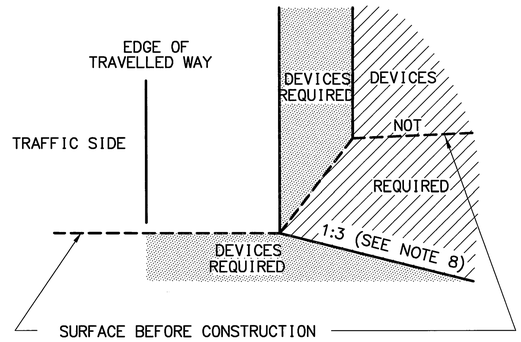
PEDESTRIAN TRAFFIC CONTROL DETAILS
[METRIC]

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-KAREN-D:\SB3SKFROA\SS97\DATA\77CONTRL.DWG 9-25-01
VIEW= H1 11:21:05 am BST
DESIGNED BY
CHECKED BY
DRAFTED BY
MDH / KMH

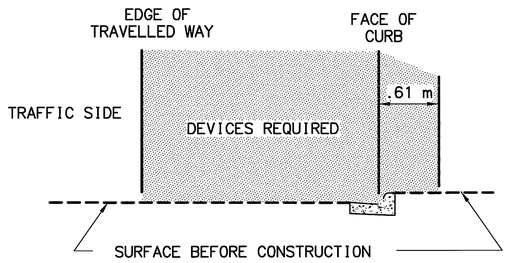
REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NHI-0A3-1(28)	2002	K2	K7
1	1/23/98	NOTE #8					
2	1/15/99	MODIFIED NOTE-TABLE 1					
3	5/25/99	MODIFIED NOTE #1.					
4	2/7/00	MODIFIED TITLE					



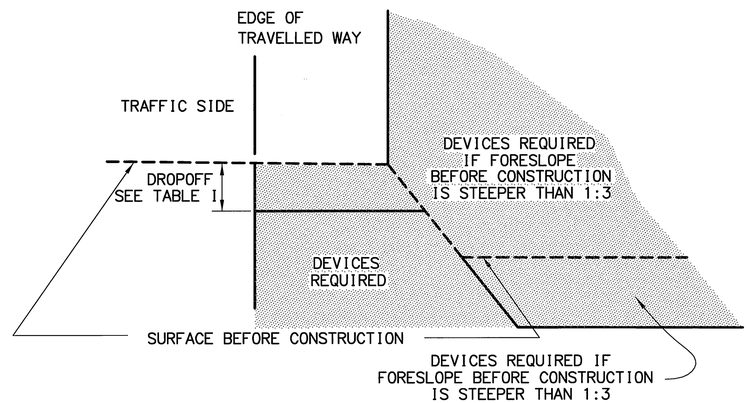
EMBANKMENT SECTION



BACKSLOPE SECTION



CURB AND GUTTER SECTION



FORESLOPE SECTION

LEGEND

- WORK AREA WHERE TRAFFIC CONTROL DEVICES ARE REQUIRED
- WORK AREA WHERE TRAFFIC CONTROL DEVICES ARE NOT REQURED
- SURFACE BEFORE CONSTRUCTION
- CONSTRUCTION AREA BOUNDARY

TABLE 1
TRAFFIC CONTROL DEVICES REQUIRED FOR DROPOFFS ADJACENT TO TRAVELLED WAY *

ROADWAY TYPE	DROPOFF ≤ 51	51 < DROPOFF < 305	DROPOFF ≥ 305
AVERAGE DAILY TRAFFIC > 4000 OR SPEED > 64 kmh	TUBULAR CANDLES OR DELINEATORS	TYPE II BARRICADES OR DRUMS	TEMPORARY PORTABLE CONCRETE BARRIER OR TEMPORARY GUARDRAIL
ALL OTHER ROADWAYS	NONE REQUIRED	TYPE II BARRICADES OR DRUMS	TYPE II BARRICADES OR DRUMS

* SPACE THE DEVICES IN ACCORDANCE WITH REQUIREMENTS FOR SPACING TYPE II BARRICADES AND DRUMS SET FORTH IN THE ALASKA TRAFFIC MANUAL. 2

4 NOTES:

3 1. TRAFFIC CONTROL DEVICES REQUIRED BY THE GUIDELINES ON THIS SHEET ARE INTENDED FOR CONDITIONS WHICH WILL BE IN PLACE LONGER THAN ONE CONTINUOUS WORK SHIFT. AN APPROVED TRAFFIC CONTROL PLAN IS REQUIRED PRIOR TO BEGINNING WORK.

2. THE GROUND CROSS SECTION AT A LOCATION BEFORE CONSTRUCTION DETERMINES WHETHER TRAFFIC CONTROL DEVICES ARE NEEDED AT THE SAME LOCATION DURING CONSTRUCTION.

3. GUARDRAIL EXISTING AT A LOCATION BEFORE CONSTRUCTION SHALL REMAIN IN PLACE DURING CONSTRUCTION OR APPROVED ALTERNATE DEVICES INSTALLED.

4. INSTALL TRAFFIC CONTROL DEVICES BETWEEN THE EDGE OF TRAVELLED WAY AND THE WORK AREA ON ANY ROADWAY OPENED TO TRAFFIC WHEN REQUIRED BY THIS DRAWING.

5. EXISTING ROADWAY ALIGNMENTS

   INSTALL TRAFFIC CONTROL DEVICES WHEN WORK OCCURS IN THE DEVICES REQUIRED AREAS SHOWN ON THIS DRAWING.

6. DETOURS, TEMPORARY ROADWAYS, OR NEW ROADWAYS NOT YET COMPLETE.

   INSTALL TRAFFIC CONTROL DEVICES WHEN ANY OF THE FOLLOWING CONDITIONS EXIST:

   A. THE HORIZONTAL OR VERTICAL CURVATURE IS MORE SEVERE THAN BEFORE CONSTRUCTION BEGAN.

   B. THE ROADWAY OR SHOULDER WIDTH IS LESS THAN BEFORE CONSTRUCTION BEGAN.

   C. THE BACKSLOPE OR FORESLOPE IS STEEPER THAN BEFORE CONSTRUCTION BEGAN.

   D. THE HEIGHT OF THE FORESLOPE IS GREATER THAN BEFORE CONSTRUCTION BEGAN.

7. DROPOFFS

   INSTALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE FORESLOPE SECTION DETAIL AND TABLE 1.

8. ON ANY NEWLY CONSTRUCTED SLOPE STEEPER THAN 1:4 TO 1:3 PROVIDE A 3 METER FLAT RECOVERY AREA AT THE 1 TOE OF SLOPE OR INSTALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE FORESLOPE SECTION DETAIL.

9. TRAFFIC CONTROL DEVICE REQUIREMENTS

   A. ON ROADWAYS WITH A SPEED LIMIT GREATER THAN 64 KILOMETERS PER HOUR OR AVERAGE DAILY TRAFFIC VOLUME GREATER THAN 4000 VEHICLES PER DAY INSTALL TEMPORARY PORTABLE CONCRETE BARRIER, TEMPORARY GUARDRAIL OR ON MULTI-LANE ROADWAYS CLOSE THE LANE CLOSEST TO THE WORK AREA AND INSTALL DRUMS SPACED IN ACCORDANCE WITH THE ALASKA TRAFFIC MANUAL.

   TERMINATE RUNS OF TEMPORARY PORTABLE CONCRETE BARRIER USING ONE OF THE FOLLOWING THREE METHODS:

   I.) TEMPORARY CRASH ATTENUATOR.

   II.) RIGID TO SEMI-RIGID GUARDRAIL TRANSITION WITH SLOTTED RAIL TERMINAL OR OTHER APPROVED CRASHWORTHY END TREATMENT.

   III.) FLARE THE ENDS OF THE TEMPORARY BARRIER AWAY FROM THE ROADWAY AT A RATE OF 1:15 ON A TRANSVERSE SLOPE OF 1:10 OR FLATTER TO THE OUTSIDE EDGE OF THE CLEAR ZONE AND INSTALL A SLOPING END TREATMENT, PER STANDARD DRAWING G-45.01[M].

   TERMINATE RUNS OF TEMPORARY GUARDRAIL USING EITHER OF THE FOLLOWING TWO METHODS:

   I.) SLOTTED RAIL TERMINAL OR OTHER APPROVED CRASHWORTHY END TREATMENT.

   II.) FLARE THE ENDS OF THE TEMPORARY GUARDRAIL AWAY FROM THE ROADWAY AT A RATE OF 1:15 ON A TRANSVERSE SLOPE OF 1:10 OR FLATTER TO THE OUTSIDE EDGE OF THE CLEAR ZONE.

   2 B. ON ALL OTHER ROADWAYS INSTALL TYPE II BARRICADES, DRUMS OR DELINEATORS WHEN DEVICES ARE REQUIRED. SPACE THE DEVICES IN ACCORDANCE WITH THE REQUIREMENTS FOR SPACING TYPE II BARRICADES AND DRUMS SET FORTH IN THE ALASKA TRAFFIC MANUAL.

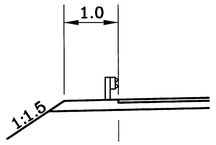
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY & RECREATIONAL IMPROVEMENTS

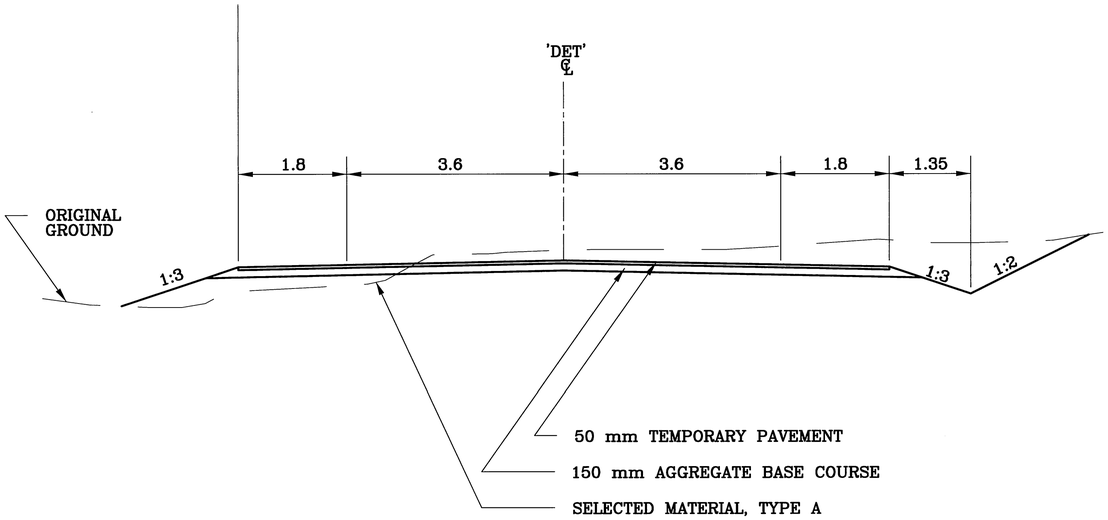
TRAFFIC CONTROL DEVICES FOR ROADSIDES
[METRIC]

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION
AUTOCAD-KAREN-D:\SB3SEPROJ\SB397\DATA\77TCNTRL.DWG 9-25-01 11:21:05 am BST
VIEW= H2
DESIGNED BY
CHECKED BY
DRAFTED BY
MDH / KMH

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	K3	K7



GUARDRAIL WIDENING



DETOUR TYPICAL SECTION

STA. 'DET' 3+000.000 TO STA. 'DET' 3+946.178

DETOUR NOTES:

1. CONSTRUCT SUPERELEVATION TRANSITIONS ACCORDING TO THE SUPERELEVEATION SUMMARY TABLE.

PROFILE GRADE INFORMATION

V.P.I. STATION	ELEVATION	GRADE (%)	VERTICAL CURVE LENGTH	REMARKS
'DET' 3+000.000	14.337			BEGIN ALIGNMENT, MATCH EXISTING
		6.390		
'DET' 3+090.000	20.088		120	
		4.200		
'DET' 3+400.000	33.108		180	
		−0.350		
'DET' 3+735.000	31.936		210	
		−2.900		
'DET' 3+890.000	27.441		70	
		−2.180		
'DET' 3+946.178	26.216			END ALIGNMENT, MATCH EXISTING

SUPERELEVATION TRANSITION SUMMARY TABLE

STATION		REMARKS
BEGIN TRANSITION	END TRANSITION	
'DET' 3+000	'DET' 3+037	TRANSITION FROM NORMAL CROWN TO 4% LT. CROSS SLOPE
'DET' 3+037	'DET' 3+081	TRANSITION FROM 4% LT. TO 0% CROSS SLOPE
'DET' 3+081	'DET' 3+125	TRANSITION FROM 0% TO 6% RT. CROSS SLOPE
'DET' 3+161	'DET' 3+180	TRANSITION FROM 6% RT. TO 4.2% RT. CROSS SLOPE
'DET' 3+542	'DET' 3+590	TRANSITION FROM 4.2% RT. TO 6% RT. CROSS SLOPE
'DET' 3+627	'DET' 3+685	TRANSITION FROM 6% RT. TO 0% CROSS SLOPE
'DET' 3+685	'DET' 3+745	TRANSITION FROM 0% TO 6% LT. CROSS SLOPE
'DET' 3+745	'DET' 3+782	TRANSITION FROM 6% LT. TO 0% CROSS SLOPE
'DET' 3+782	'DET' 3+820	TRANSITION FROM 0% TO 6% RT. CROSS SLOPE
'DET' 3+820	'DET' 3+859	TRANSITION FROM 6% RT. TO 0% CROSS SLOPE
'DET' 3+859	'DET' 3+898	TRANSITION FROM 0% TO 6% LT. CROSS SLOPE
'DET' 3+898	'DET' 3+945	TRANSITION FROM 6% LT. TO NORMAL CROWN

STATE OF ALASKA
49TH
JOHN R. LINNELL
CE 9458
11-26-02
REGISTERED PROFESSIONAL ENGINEER

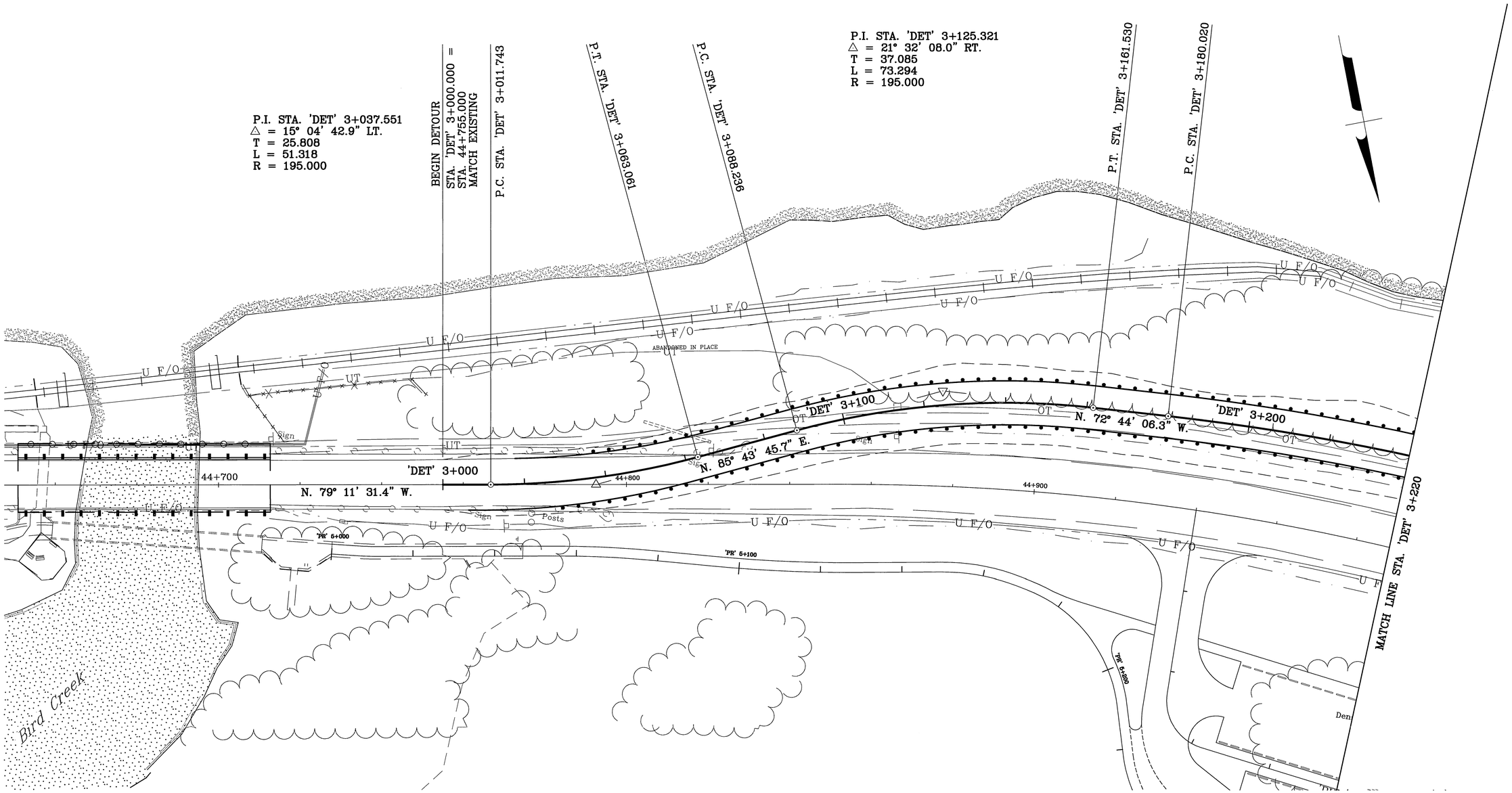
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND RECREATIONAL IMPROVEMENTS

DETOUR PLAN VIEW

SPECIFICATIONS
SCALE 1=1
COMPUTER DESIGNATION: AUTOCAD-CAROLEE:\SEWAROOTDB\DETOUR
DESIGNED BY
CHECKED BY
DRAFTED BY: KMH
11/14/02
VIEW=1

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	K4	K7



DESIGNED BY	
CHECKED BY	KMH
DRAFTED BY	11/13/02
VIEW#	
SPECIFICATIONS	
SCALE: 1=1	
COMPUTER DESIGNATION	AUTOCAD-CAROLEE\SEWARDOTOR\DETOUR

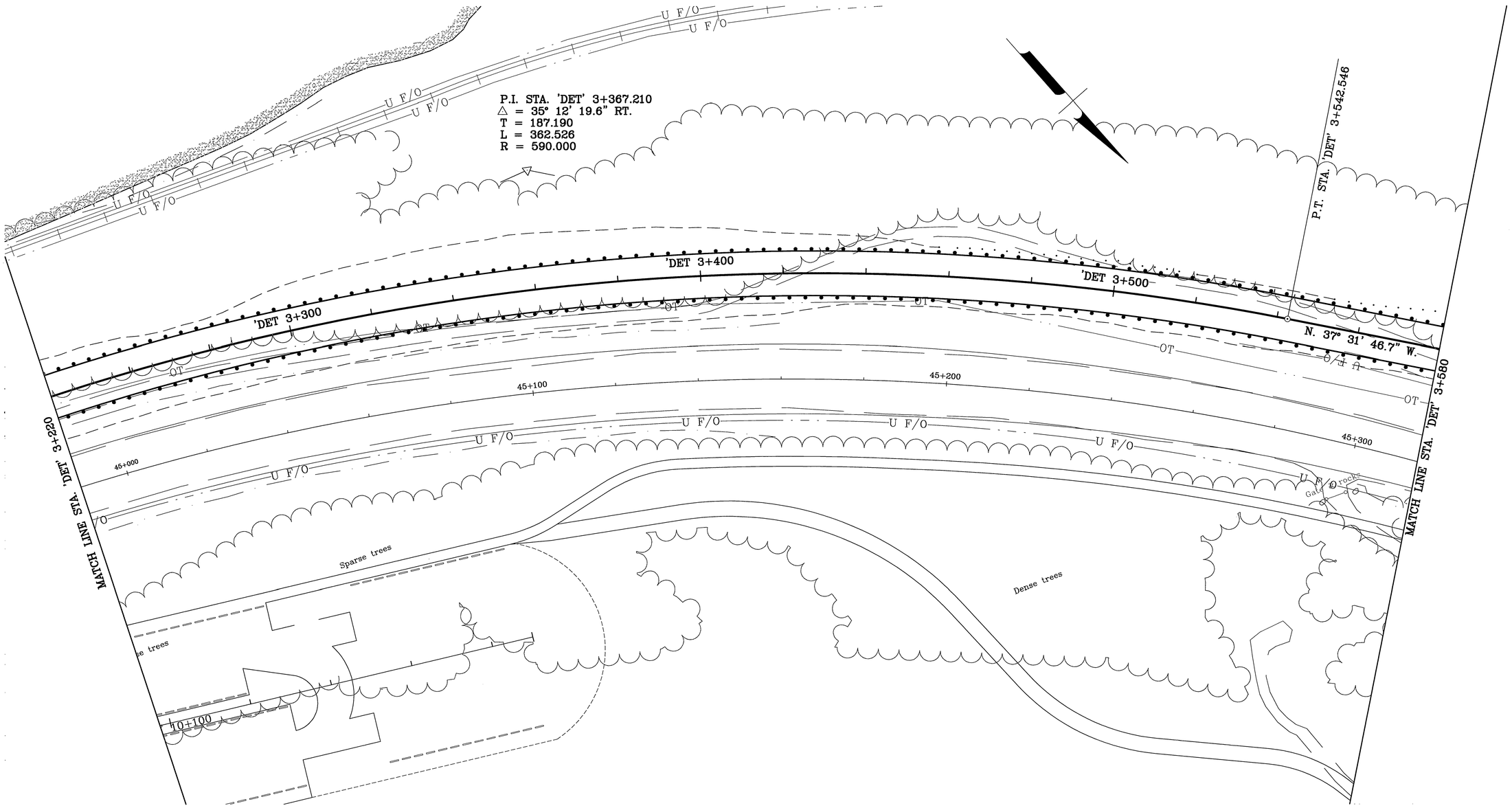
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND RECREATIONAL IMPROVEMENTS

DETOUR PLAN VIEW

STATE OF ALASKA
49TH
JOHN R. LINNELL
CE 9458
REGISTERED PROFESSIONAL ENGINEER
11-26-02

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	K5	K7



DESIGNED BY	
CHECKED BY	
DRAFTED BY	KMH
VIEW=	11/13/02
SPECIFICATIONS	
SCALE 1=1	
COMPUTER DESIGNATION	AUTOCAD-CAROLEE\SEWARDOT08\DETOUR

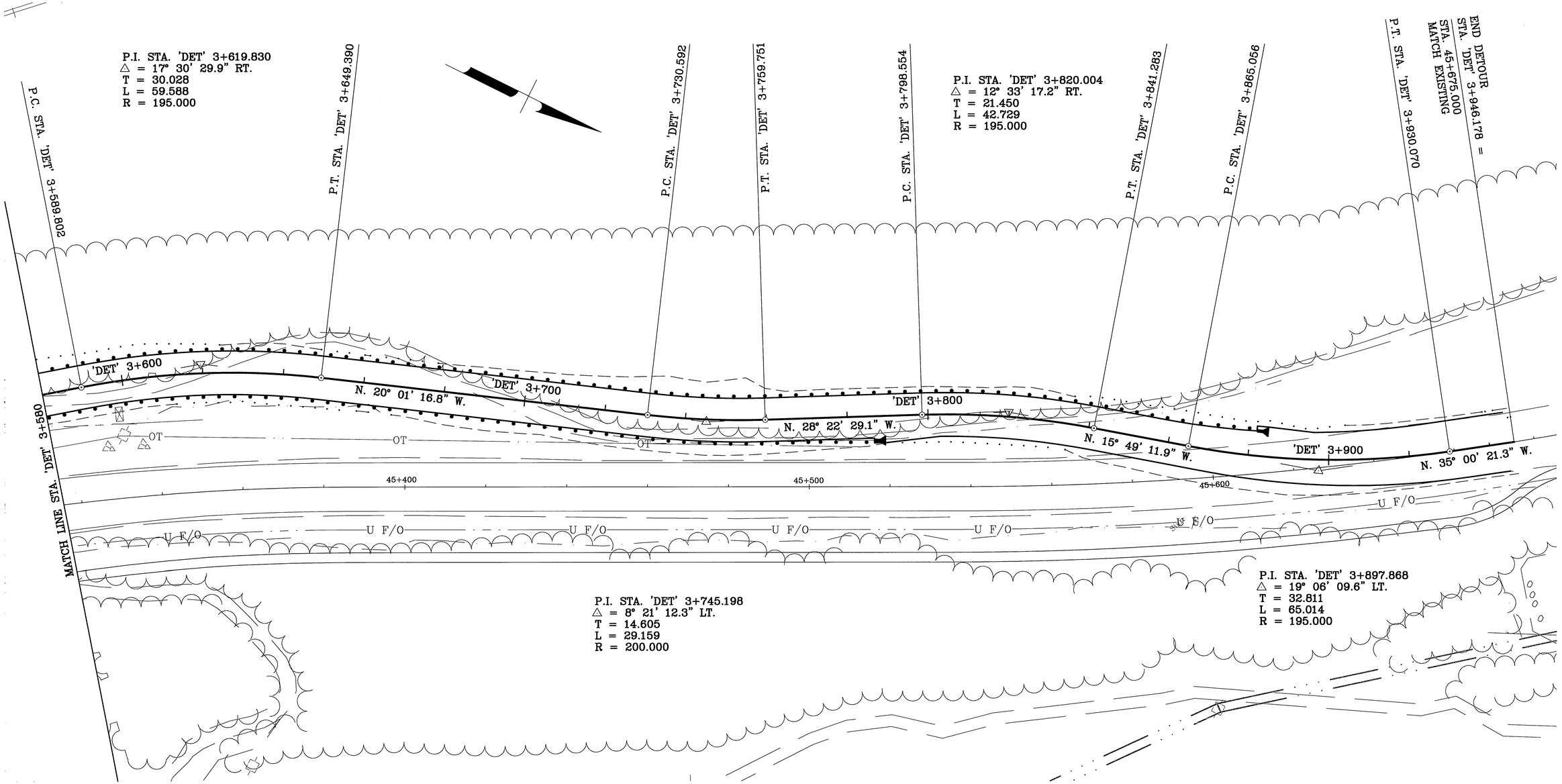
STATE OF ALASKA
49TH
JOHN R. LINNELL
CE 9456
11-21-02
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND RECREATIONAL IMPROVEMENTS

DETOUR PLAN VIEW

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	K6	K7



SPECIFICATIONS	
SCALE: 1=1	
COMPUTER DESIGNATION	AUTOCAD-CARLEX:\SEWARDOTOR\DETOUR
DESIGNED BY	
CHECKED BY	
DRAFTED BY	KMH
VIEW=	11/13/02

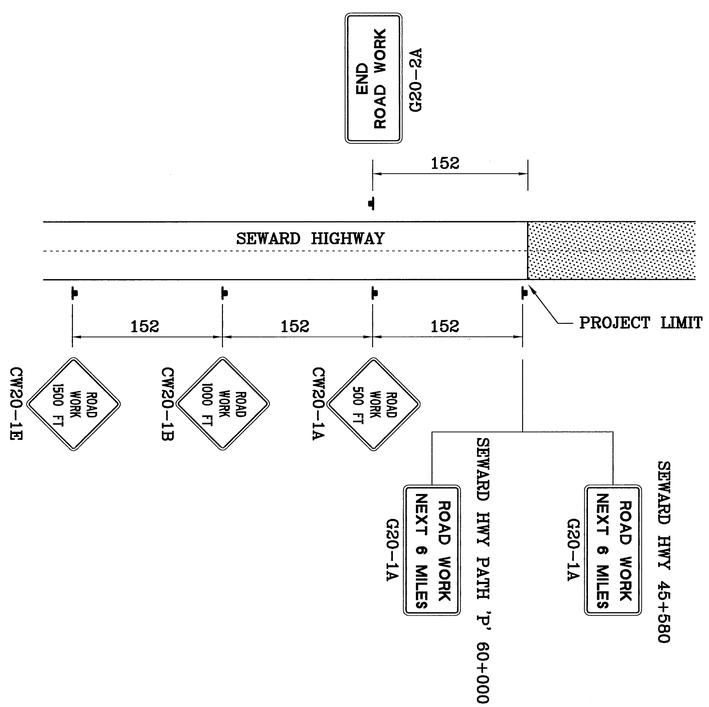
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

STATE OF ALASKA 49TH JOHN R. LINNELL CE 9458 REGISTERED PROFESSIONAL ENGINEER

SEWARD HIGHWAY MP 96 TO MP 102 SAFETY, ROADWAY AND RECREATIONAL IMPROVEMENTS

DETOUR PLAN VIEW

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	K7	K7



PERMANENT CONSTRUCTION SIGNING DETAIL

PLACE SIGNS AT EACH END OF THE PROJECT

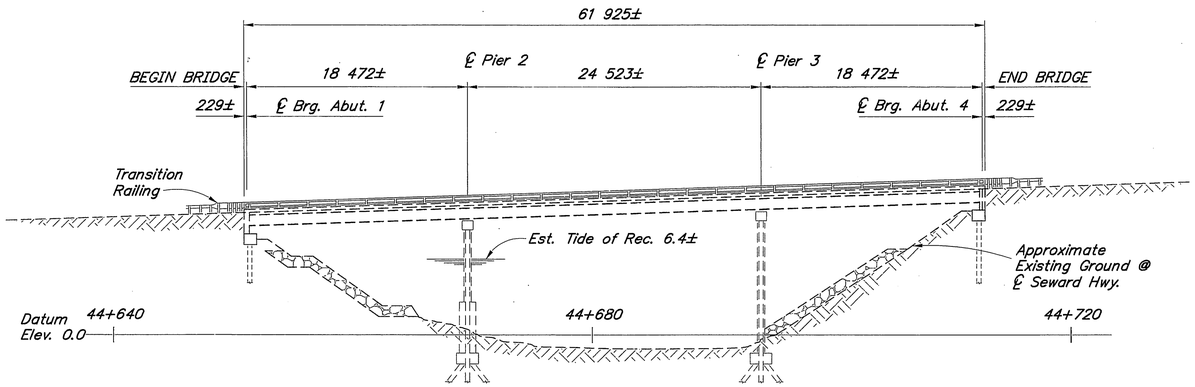
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND RECREATIONAL IMPROVEMENTS

PERMANENT CONSTRUCTION SIGNING DETAIL

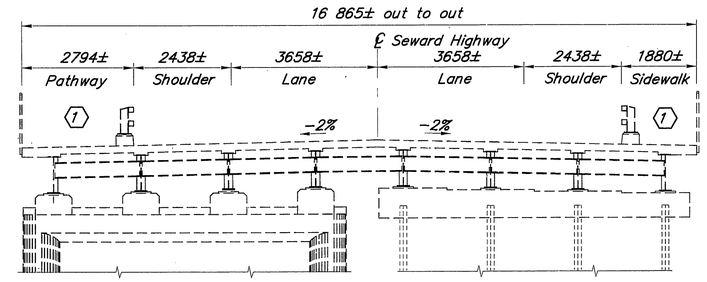
DESIGNED BY	
CHECKED BY	
DRAFTED BY	KMH
VIEW#	
SPECIFICATIONS	
SCALE 1=1	
COMPUTER DESIGNATION	AUTOCAD-NANCY-43677\DATA\77TC_PCS.DWG 11-18-02

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0A3-I(28)/54433	2001	N1	N5



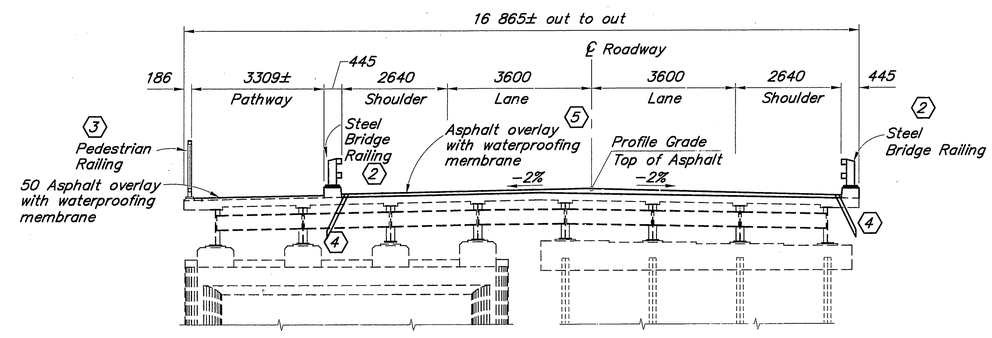
ELEVATION

0 5000 10000 15000 millimeters



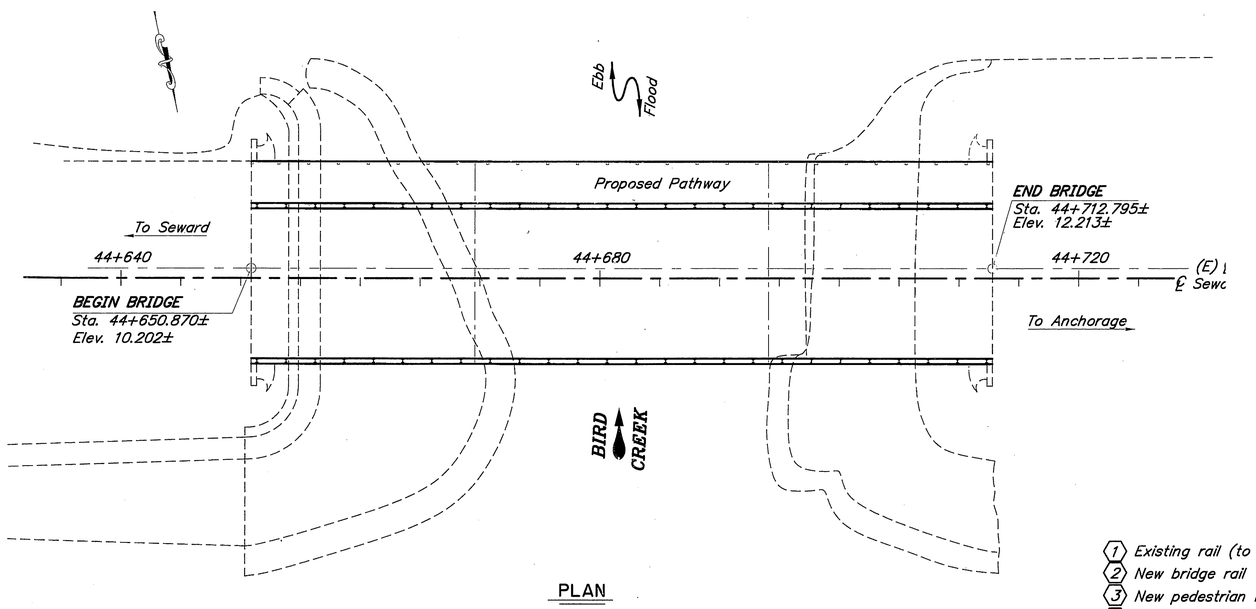
EXISTING TYPICAL SECTION

0 1000 2000 3000 millimeters



PROPOSED TYPICAL SECTION

0 1000 2000 3000 millimeters



PLAN

0 5000 10000 15000 millimeters

1. Existing rail (to be removed)
2. New bridge rail
3. New pedestrian rail.
4. New deck drains.
5. New waterproofing membrane and A/C overlay. (see sheet G1)

DRAWING INDEX

TITLE	DWG. NO.
GENERAL LAYOUT	1
TYPICAL SECTION	2
STEEL BRIDGE RAILING	3
PEDESTRIAN RAILING	4
THRIE BEAM TRANSITION	5

NOTES:

(E) Existing

------ Denotes Existing

——— Denotes New Construction

Elevations, Benchmarks and Dimensions are based on "AS-BUILT" plans. Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

DESIGNED BY: Frank Muchmore	CHECKED: ELMER E. MARX	LAYOUT BY: Frank Muchmore	CHECKED BY: Sam Sollie Sr.
DRAWN BY: Sam Sollie Sr.	CHECKED: ELMER E. MARX	SPECIFICATIONS BY: Frank Muchmore	PLANS & SPEC. COMPARED: ELMER E. MARX
QUANTITIES BY: Frank Muchmore	CHECKED: ELMER MARX	APPROVAL RECOMMENDED BY: Richard L. Krall	

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49TH — Elmer E. Marx III — No. CE 9490 — 8-30-01 — REGISTERED PROFESSIONAL ENGINEER

BIRD CREEK BRIDGE

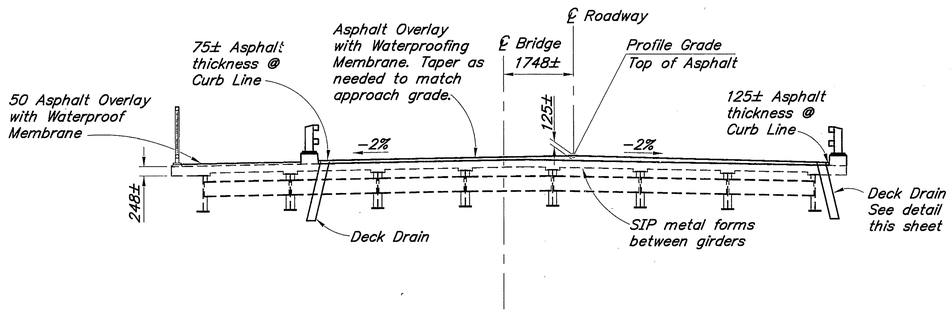
SEWARD HIGHWAY

GENERAL LAYOUT

BRIDGE NO. 643

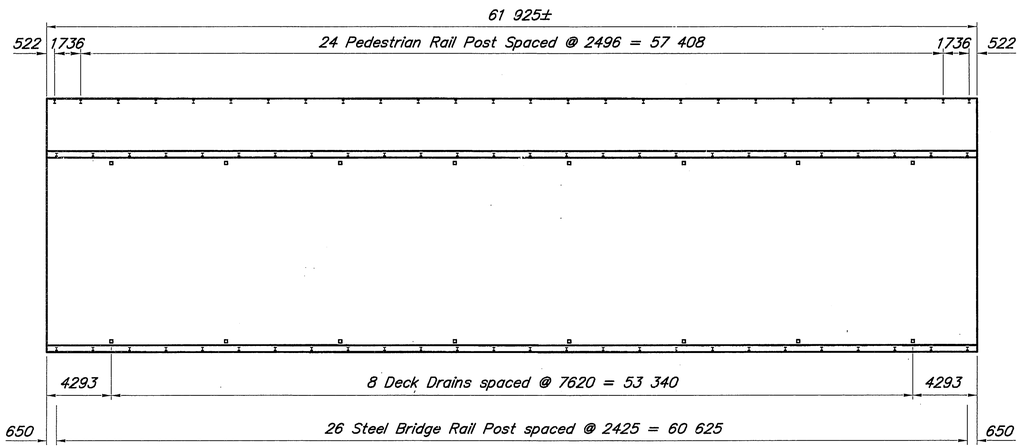
DWG. NO. 1

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0A3-1(28)/54433	2001	N2	N5



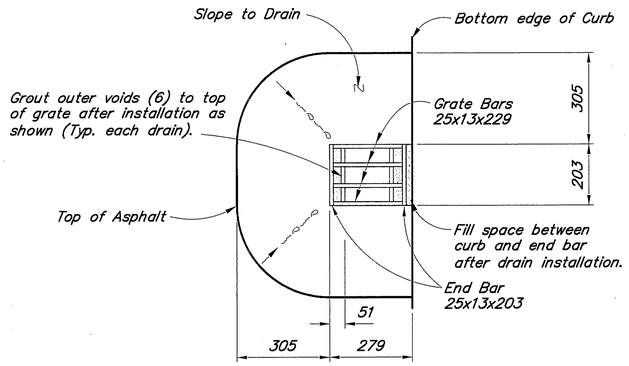
TYPICAL SECTION

0 1000 2000 3000 millimeters



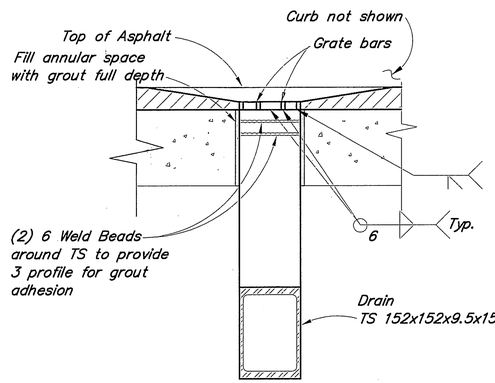
PLAN

0 5000 10000 15000 millimeters

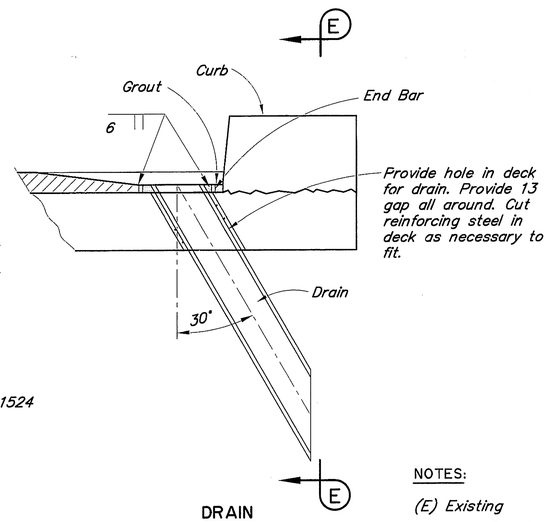


DECK DRAIN-PLAN

0 200 400 600 millimeters



SECTION E-E



DRAIN

DRAIN DETAILS

0 200 400 600 millimeters

GENERAL NOTES

SPECIFICATION:

Design: ..... AASHTO Standard Specifications for Highway Bridges, 1996 with latest Interims.

Construction: ..... State of Alaska Standard Specifications for Highway Construction 1998 with Standard Modifications and Special Porvisions.

DESIGN STRENGTH:

Cast in Place Concrete: ..... f'c = 28 MPa

Reinforcing Steel: ..... fy = 420 MPa

Structural Steel: ..... fy = 250 MPa

STRUCTURAL MATERIALS:

Concrete: ..... Use Class "A" Concrete.

Reinforcing Steel: ..... Use ASTM A615M, Grade 420.

Structural Steel: ..... Use ASTM A709M, Grade 250, unless otherwise noted.

Use ASTM A500, Grade B for drain tubes.

Galvanize deck drains in accordance with AASHTO M111.

NOTES:

(E) Existing

- - - - - Denotes Existing

——— Denotes New Construction

Elevations, Benchmarks and Dimensions are based on "AS-BUILT" plans. Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	UNIT	SUPERSTR.	TOTAL
202(1)	Removal of Structures & Obstructions	LS	All Req'd	All Req'd
401(1)	Asphalt Concrete, Type II, Class A	Mg	216	216
401(2)	Asphalt Cement, Grade 52-28	Mg	12	12
504(1)	Structural Steel	LS-Kg	1040	1040
507(1)	Steel Bridge Railing	m	123.85	123.85
507(2)	Pedestrian Railing	m	61.925	61.925
508(1)	Waterproofing Membrane	LS-SM	996	996
606(12)	Guardrail/Bridge Rail Connection	EA	4	4

DESIGNED BY: Frank Muchmore	CHECKED: ELMER E. MARX
DRAWN BY: [signature]	CHECKED: ELMER MARX
QUANTITIES BY: Frank Muchmore	CHECKED: ELMER MARX

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 40TH Elmer E. Marx III No. CE 9490 8-30-01 REGISTERED PROFESSIONAL ENGINEER

BIRD CREEK BRIDGE

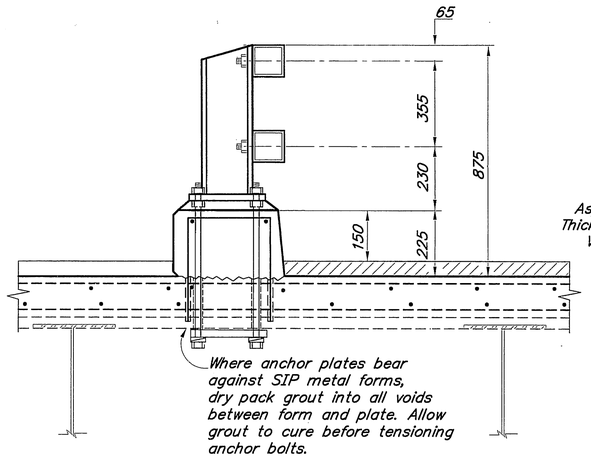
SEWARD HIGHWAY

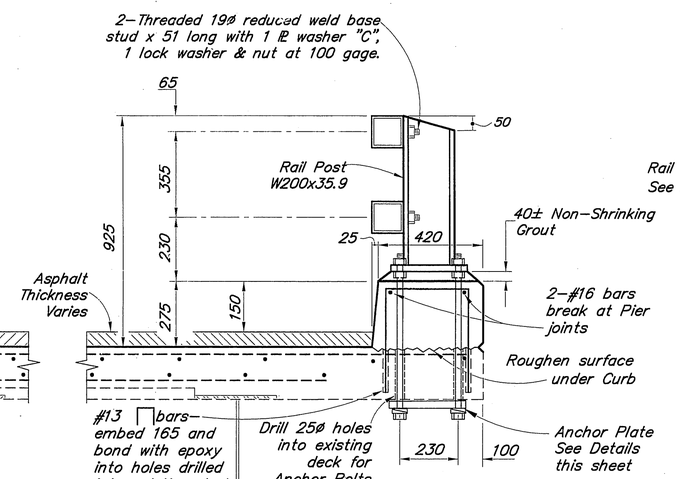
TYPICAL SECTION

BRIDGE NO. 643

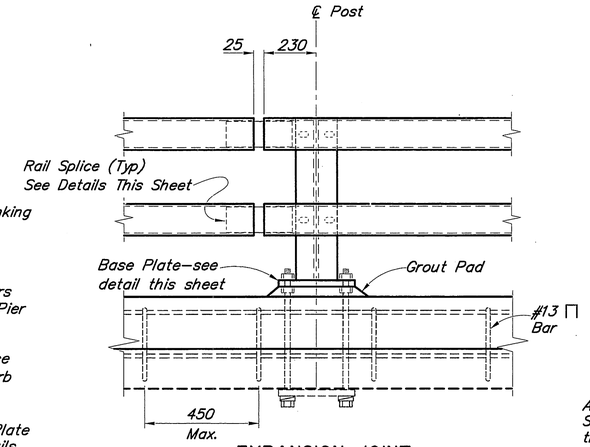
DWG. NO. 2

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0A3-1(28)/54433	2001	N3	N5

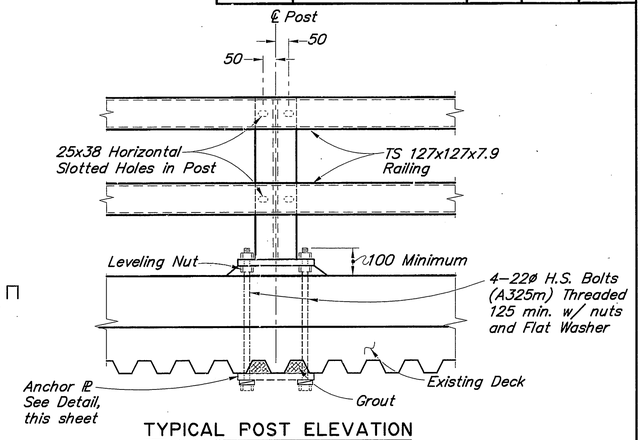




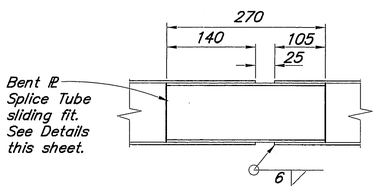
TYPICAL SECTION



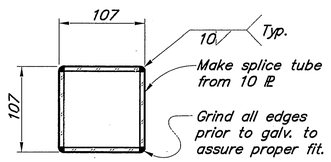
EXPANSION JOINT



TYPICAL POST ELEVATION



RAIL SPLICE DETAIL



SPLICE TUBE

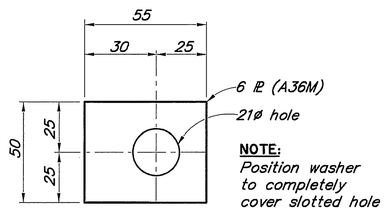
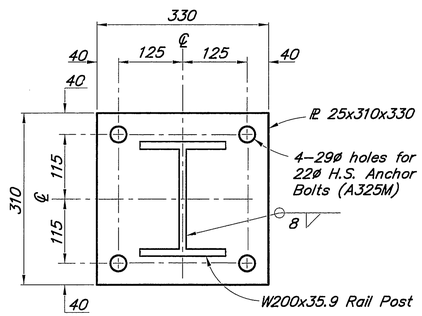


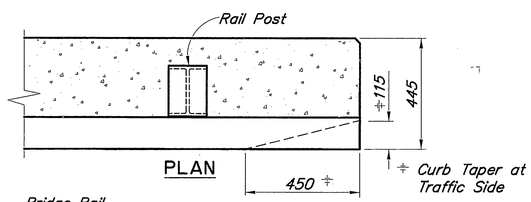
PLATE WASHER "C"



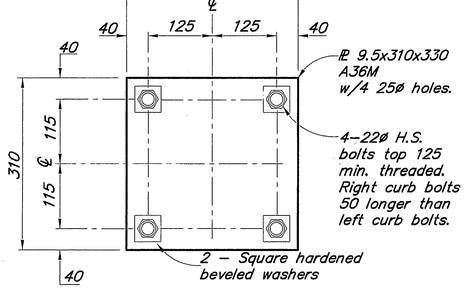
BASE PLATE DETAIL

NOTES

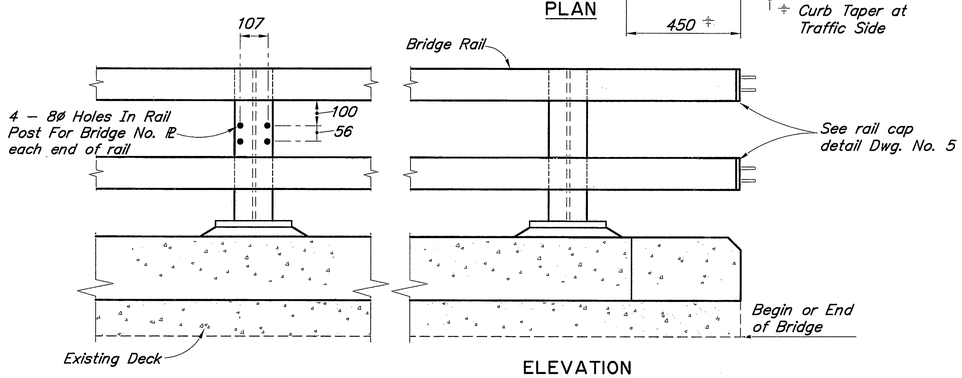
1. Remove existing bridge number plates from existing railposts. Relocate existing bridge number plates to right hand side of approaching traffic at each end as shown (2 Total). Attach bridge number plates to new post with 4–6øx25 ribbed neck carriage bolts with steel tamper proof nuts (McMaster–Carr 90084A029 or approved equal), galvanized or cadmium plated.
2. All machine bolts shall have locking nuts or lock washers.
3. Railing expansion joints must be provided at 15 000 maximum intervals throughout the railing. Railing shall be continuous over 2 posts minimum.
4. Posts shall be adjusted to a plumb position.
5. Thrie beam guardrail transition "NESTED" sections shall be installed one section on each side of transition bracket, typical either end of bridge. Ref. Dwg. No. 5.
6. Grout for railposts shall conform to Section 701.
7. See "TYPICAL SECTION" drawing 5 for rail post spacing.
8. Place 13 joint filler full depth of curbs at existing deck joints.
9. Adjust 2 beveled washers so that each rail post anchor bolt is vertical and fully bearing on washers.



PLAN

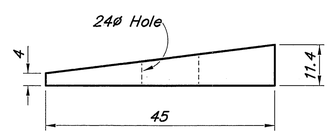


ANCHOR PLATE DETAIL



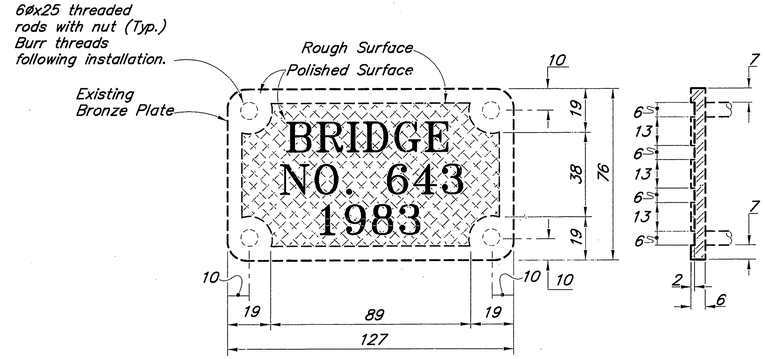
ELEVATION

RAIL CAP ATTACHMENT TO 2-TUBE BRIDGE RAIL



TYPE B SQUARE HARDENED BEVELED WASHER

(See Note 9)

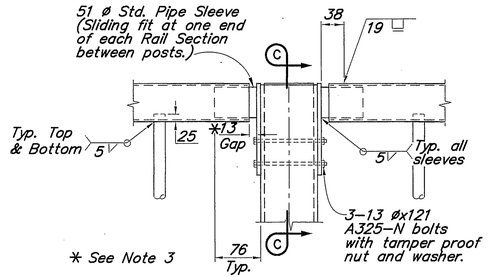


EXISTING BRONZE BRIDGE NO. PLATE

No Scale

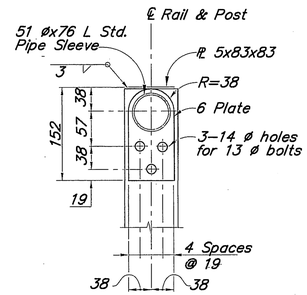
DESIGNED BY: Frank Muchmore	CHECKED: ELMER E. MARX	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES BRIDGE SECTION	STATE OF ALASKA 4971 Elmer E. Marx III No. CE 9490 6-30-01 REGISTERED PROFESSIONAL ENGINEER	BIRD CREEK BRIDGE SEWARD HIGHWAY STEEL BRIDGE RAILING
DRAWN BY:	CHECKED: ELMER E. MARX			BRIDGE NO. 643
QUANTITIES BY: Frank Muchmore	CHECKED: ELMER E. MARX			DWG. NO. 3

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0A3-1(28)/54433	2001	N4	N5



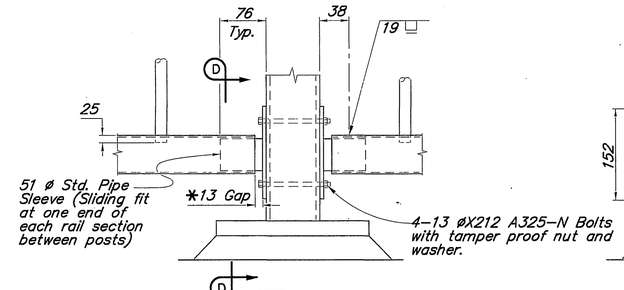
DETAIL B

0 100 200 300 millimeters



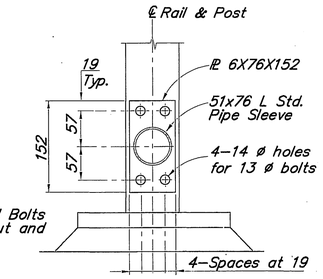
SECTION C-C

0 100 200 300 millimeters



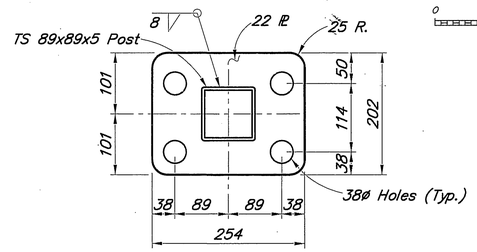
DETAIL C

0 100 200 300 millimeters



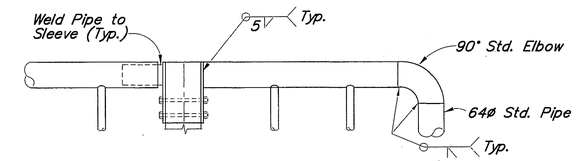
SECTION D-D

0 100 200 300 millimeters



BASE PLATE

0 100 200 300 millimeters

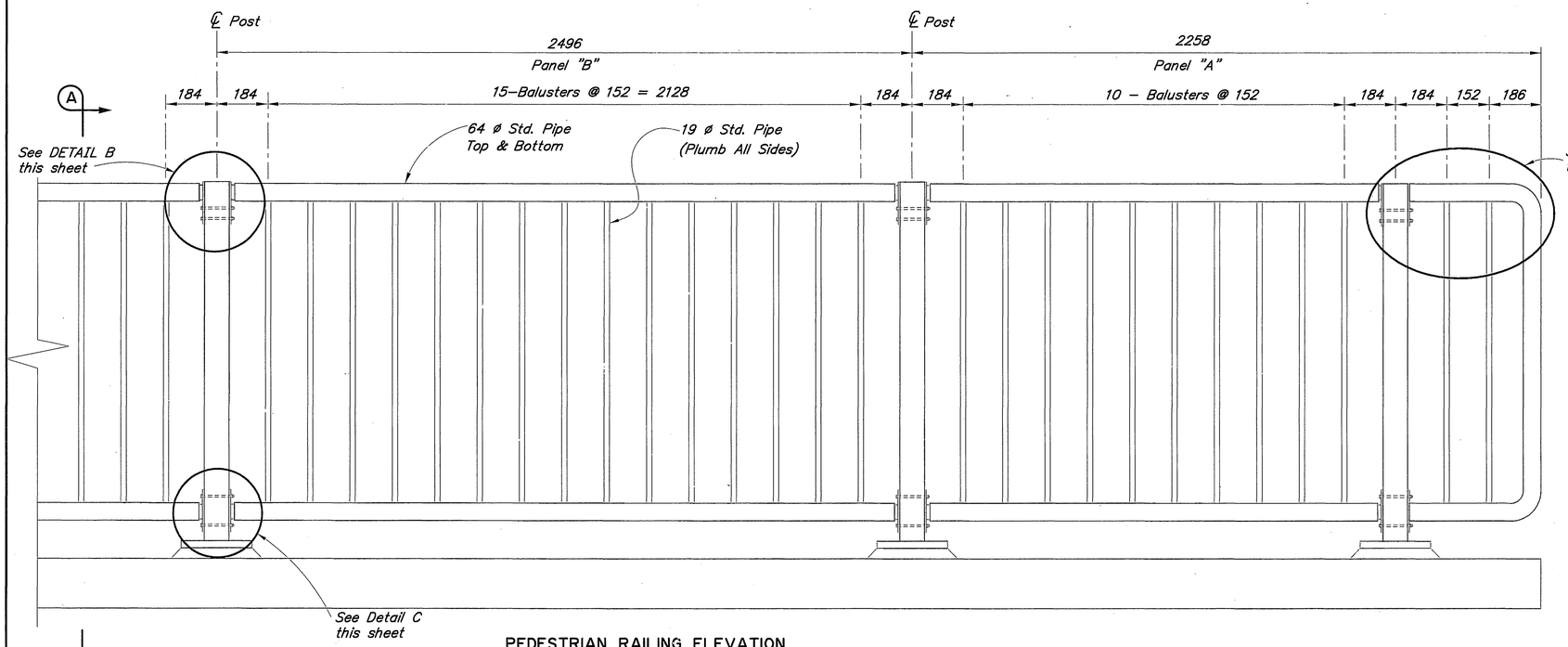


DETAIL A

No Scale

NOTES

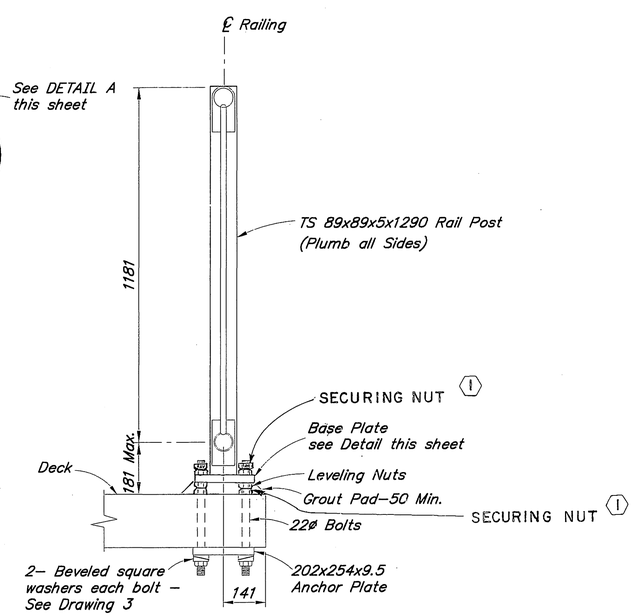
1. The railing panels shall be prefabricated.
2. Galvanized steel damaged by field cutting or welding (when permitted by the Engineer) shall be repaired in accordance with AASHTO Specification M36
3. Provide 25 joint gap at one post adjacent to abutment and pier expansion joints.



PEDESTRIAN RAILING ELEVATION

PANELS "A" AND "B"

0 200 400 600 millimeters



SECTION A-A

0 200 400 600 millimeters

DESIGNED BY: Frank Muchmore	CHECKED: ELMER E. MARX
DRAWN BY: Sam Sabio	CHECKED: ELMER E. MARX
QUANTITIES BY: ELMER MARX	CHECKED: Sam Sabio

REVISIONS

No.	Date	Description
1	8/21/02	ADDED NUTS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49TH Elmer E. Marx III No. CE 9490 8-30-01 REGISTERED PROFESSIONAL ENGINEER

BIRD CREEK BRIDGE

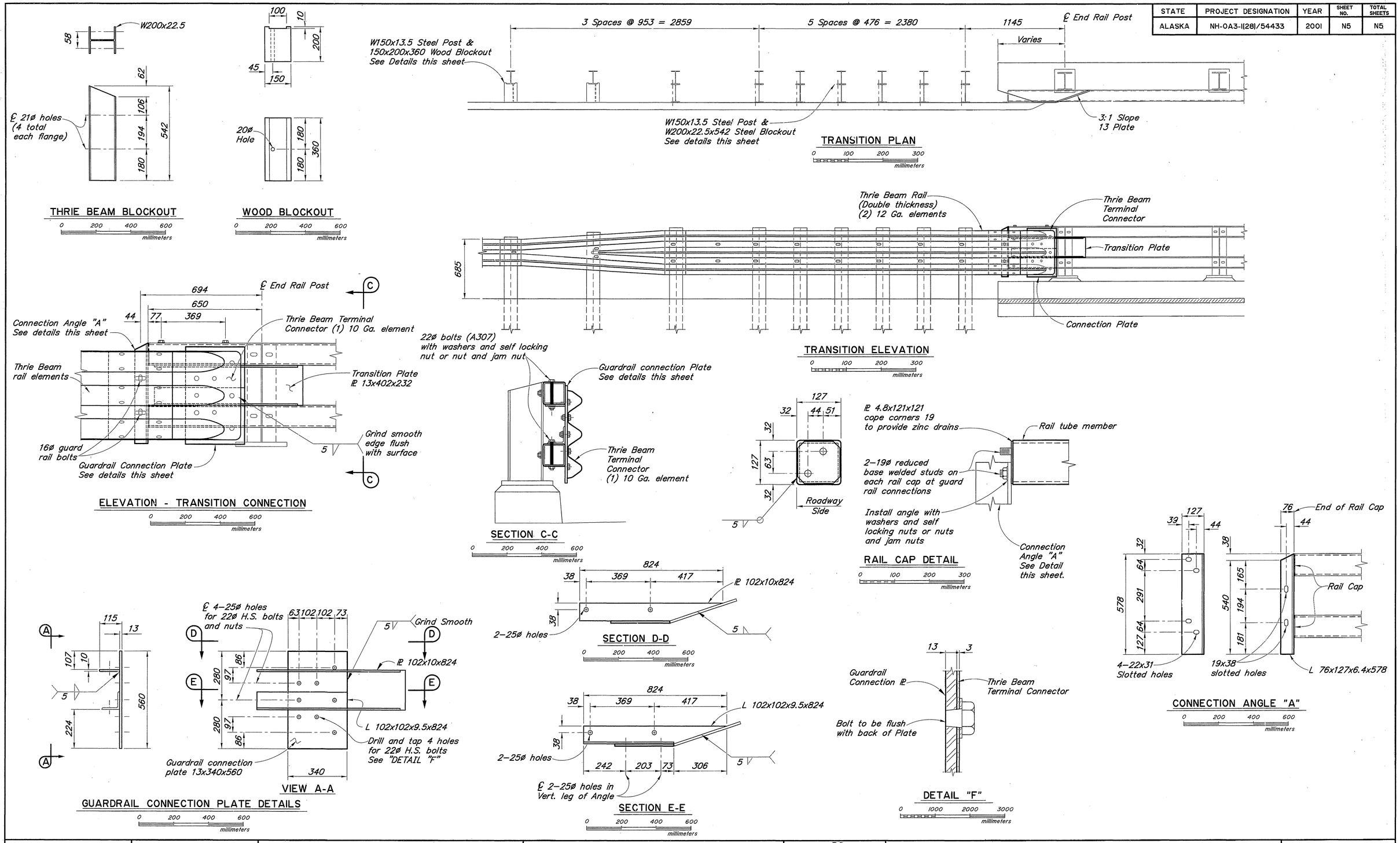
SEWARD HIGHWAY

PEDESTRIAN RAILING

BRIDGE NO. 643

DWG. NO. 4

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0A3-I(28)/54433	2001	N5	N5



DESIGNED BY: Frank Muchmore	CHECKED: ELMER. E. MARX
DRAWN BY: Sam Sollers	CHECKED: ELMER E. MARX
QUANTITIES BY: Frank Muchmore	CHECKED: ELMER E. MARX

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49TH Elmer E. Marx III No. CE 9490 8-30-01 REGISTERED PROFESSIONAL ENGINEER

BIRD CREEK BRIDGE

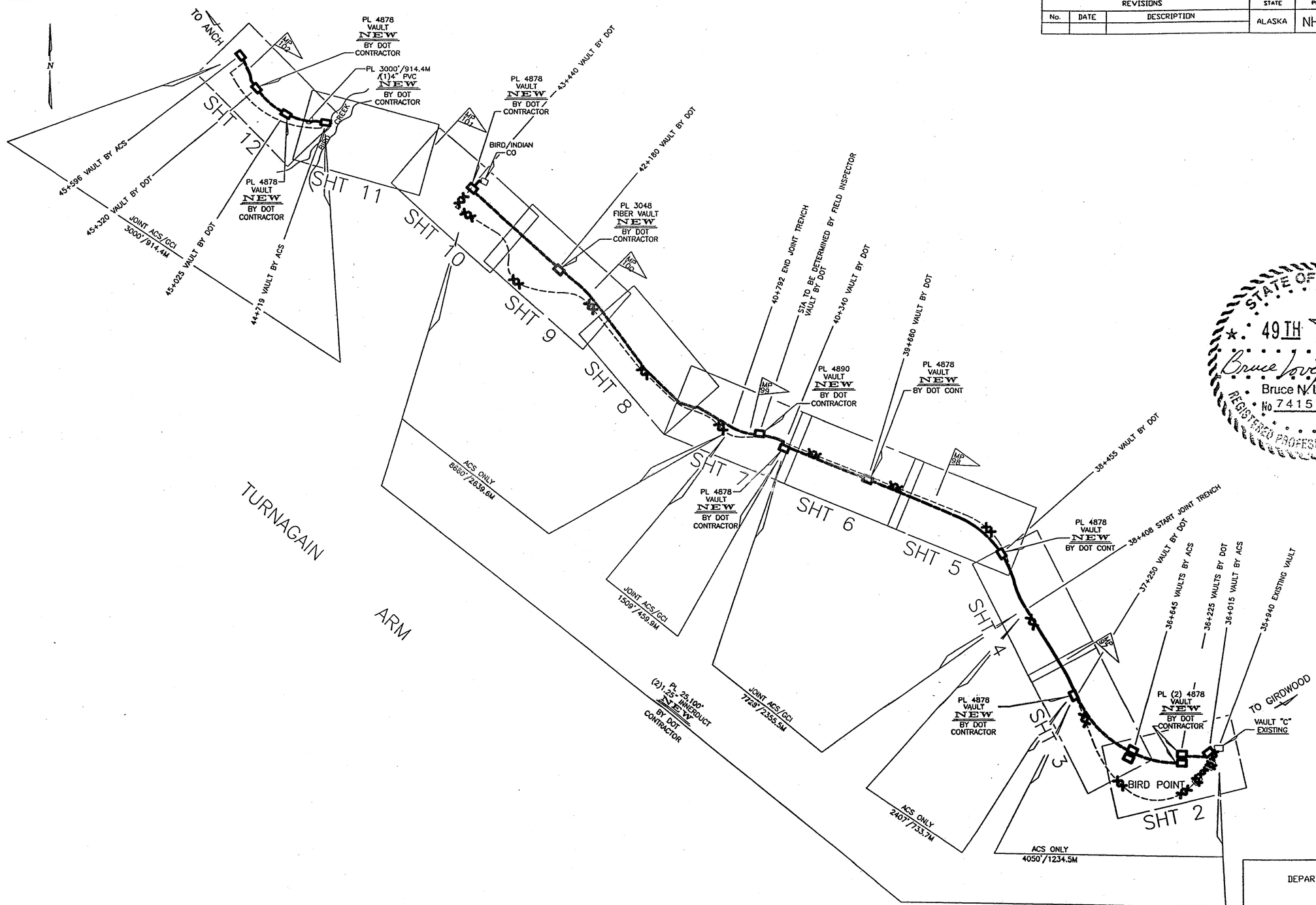
SEWARD HIGHWAY

THRIE BEAM TRANSITION

BRIDGE NO. 643

DWG. NO. 5

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	S1	S17



STATE OF ALASKA
49TH
Bruce Lovejoy
Bruce N. Lovejoy
No 7415EE
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY	
CHECKED BY	
DRAWN BY	CJ
1/29/02	
SPECIFICATIONS	
STANDARDS	VIEW ALL
COMPUTER DESIGNATION	AUTOCAD-CAROLLE-MARC/MGRP

SHEETS 1–15 WORK BY DOT CONTRACTOR
SHEETS 16–30 WORK BY ACS OR ACS CONTRACTOR

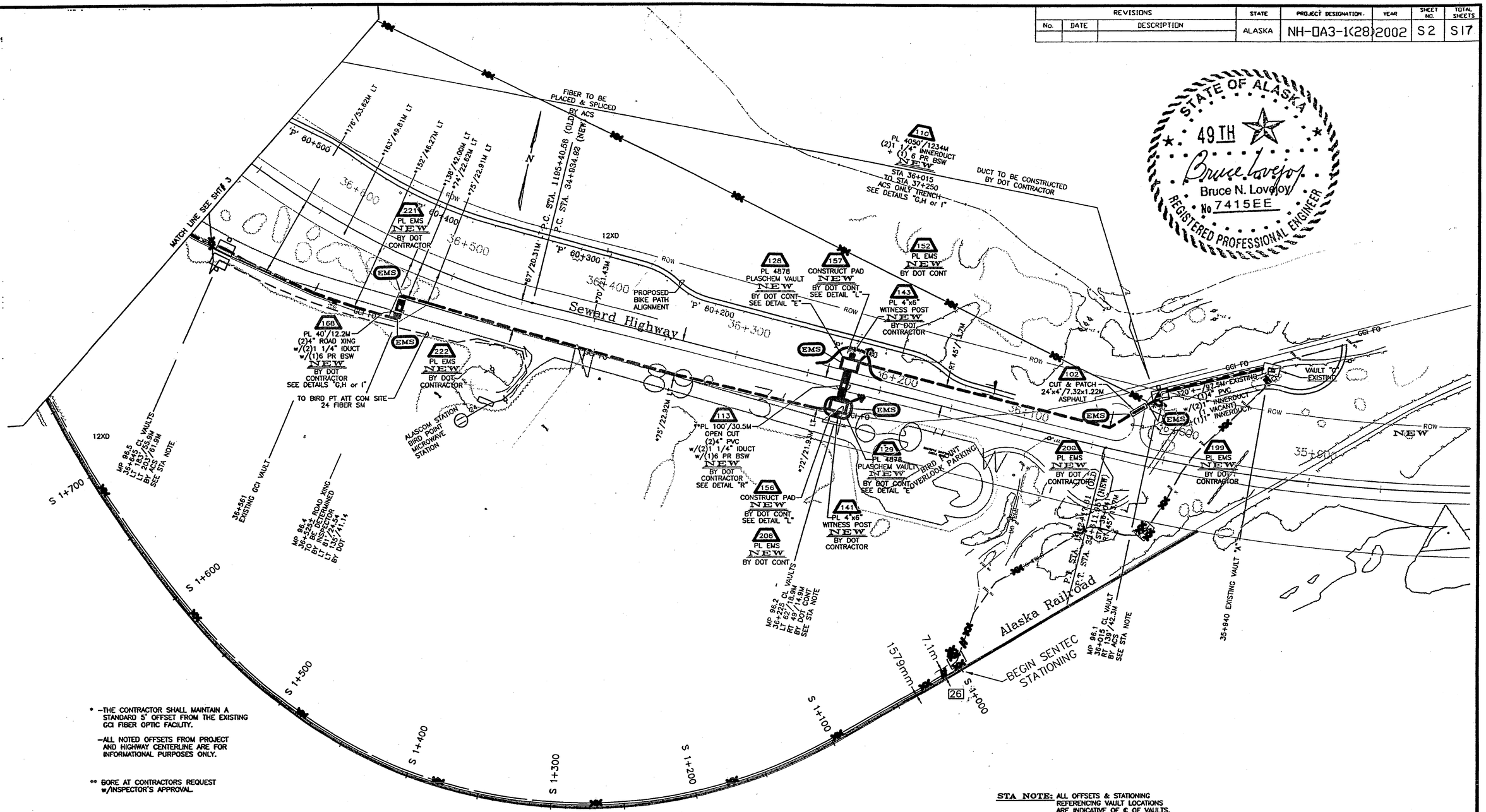
ACS Alaska Communications Systems

TOWNSHIP ANCHORAGE	RANGE	SECTION	DA#	EFRAP#	HELD ORDER: YES NO	PERMITS: YES NO	CUTS REQ: YES NO	PRESSURE: YES NO
ASSOCIATED WORK ORDERS	SOURCE MAPS	REVISION NUMBER–DATE–INITIALS	EXCHANGE GIRD	S#	TITLE: BIRD FLATS FIBER RELOCATION			WO# (2001) 001-0519
		REV.	CAD# 01051901		BOROUGH/CNTY			
		REV.	ENGR/EXT: C. CHRISTENSEN 564-1367 / 244-1191					
		REV.	DWN: MTE	DATE: 5/29/02	SCALE: NTS	APR'D:	ISSUED: 6-7-02	SH. 1 OF 30 SHTS.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

REVISIONS			STATE	PROJECT DESIGNATION.	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	S2	S17



* –THE CONTRACTOR SHALL MAINTAIN A STANDARD 5' OFFSET FROM THE EXISTING GCI FIBER OPTIC FACILITY.

–ALL NOTED OFFSETS FROM PROJECT AND HIGHWAY CENTERLINE ARE FOR INFORMATIONAL PURPOSES ONLY.

** BORE AT CONTRACTORS REQUEST w/INSPECTOR'S APPROVAL.

STA NOTE: ALL OFFSETS & STATIONING REFERENCING VAULT LOCATIONS ARE INDICATIVE OF ℄ OF VAULTS.

50 0 50 100 150 200

METRIC BAR SCALE
1 METER = 3937/1200 U.S. SURVEY FEET

SPECIFICATIONS	
STANDARDS	NEW ALL
COMPUTER DESIGNATION	AUTOCAD–CAROLEE–MARC/MBDR

DESIGNED BY		1/29/02
CHECKED BY		
DRAFTED BY	CJ	

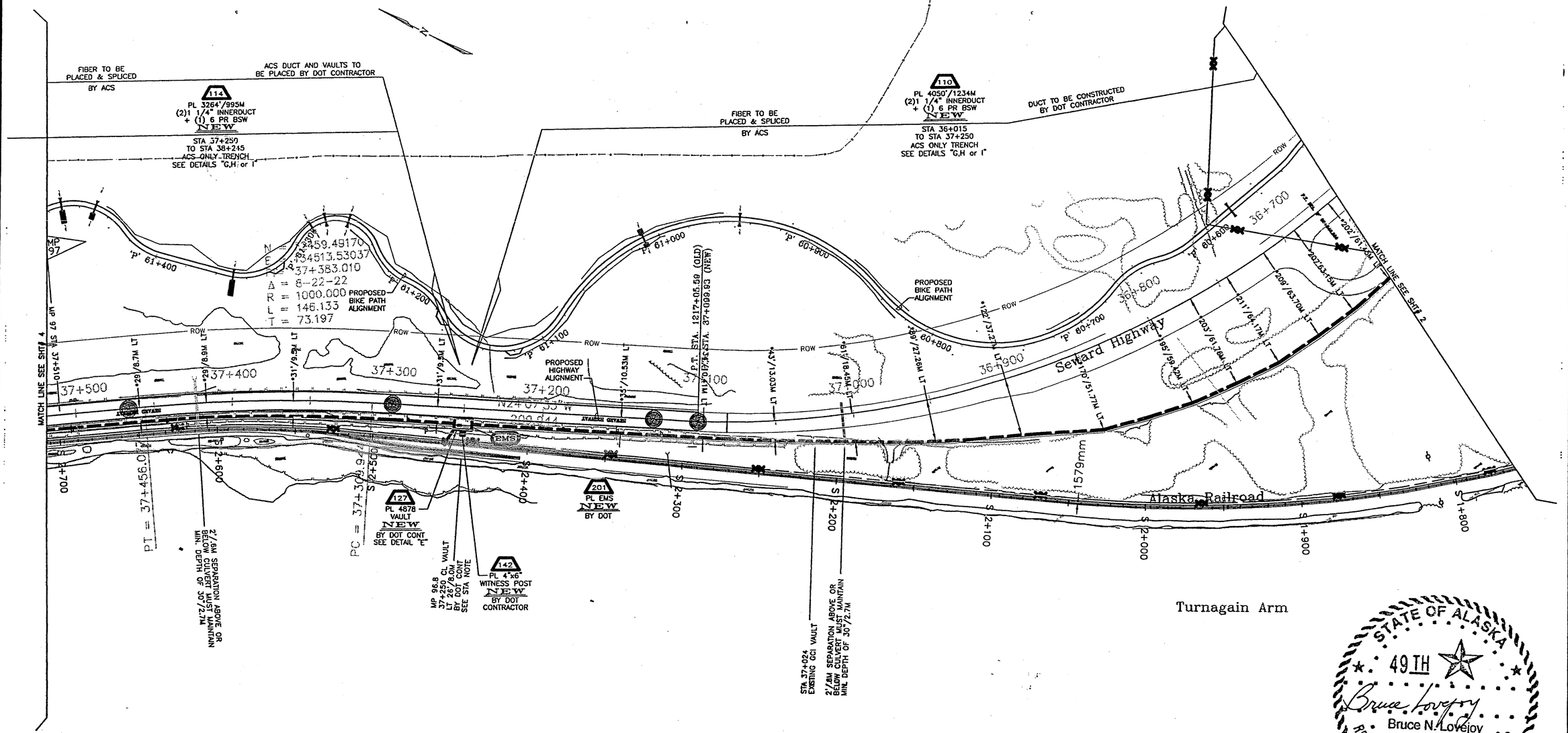
ACS Alaska Communications Systems

TOWNSHIP ANCHORAGE	RANGE	SECTION	DA#	EFRAP#	HELD ORDER: YES NO	PERMITS: YES NO	CUTS REQ: YES NO	PRESSURE: YES NO
ASSOCIATED WORK ORDERS	SOURCE MAPS	REVISION NUMBER–DATE–INITIALS	EXCHANGE GIRD	S#	TITLE: BIRD FLATS FIBER RELOCATION			WO# (2001) 001–0519
		REV.	CAD# 01051901					
		REV.	ENGR/EXT: C. CHRISTENSEN 564-1367 / 244-1191					
		REV.	DWN: MTE	DATE: 4/22/02	SCALE: NTS	APR'D:	ISSUED: 5-24-02	SH. 2 OF 30 SHTS.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	S 3	S17'



STA NOTE: ALL OFFSETS & STATIONING REFERENCING VAULT LOCATIONS ARE INDICATIVE OF ℄ OF VAULTS.

* –THE CONTRACTOR SHALL MAINTAIN A STANDARD 5' OFFSET FROM THE EXISTING GCI FIBER OPTIC FACILITY.

–ALL NOTED OFFSETS FROM PROJECT AND HIGHWAY CENTERLINE ARE FOR INFORMATIONAL PURPOSES ONLY.

STATE OF ALASKA
49TH
Bruce N. Lovejoy
No 7415EE
REGISTERED PROFESSIONAL ENGINEER

50 0 50 100 150 200

METRIC BAR SCALE
1 METER = 3937/1200 U.S. SURVEY FEET

DESIGNED BY		1/29/02
CHECKED BY		
DRAFTED BY	CJ	
SPECIFICATIONS		
STANDARDS		
COMPUTER DESIGNATION	VIEW ALL	
	AUTOCAD-CAROLEE-MARC/ABOR	

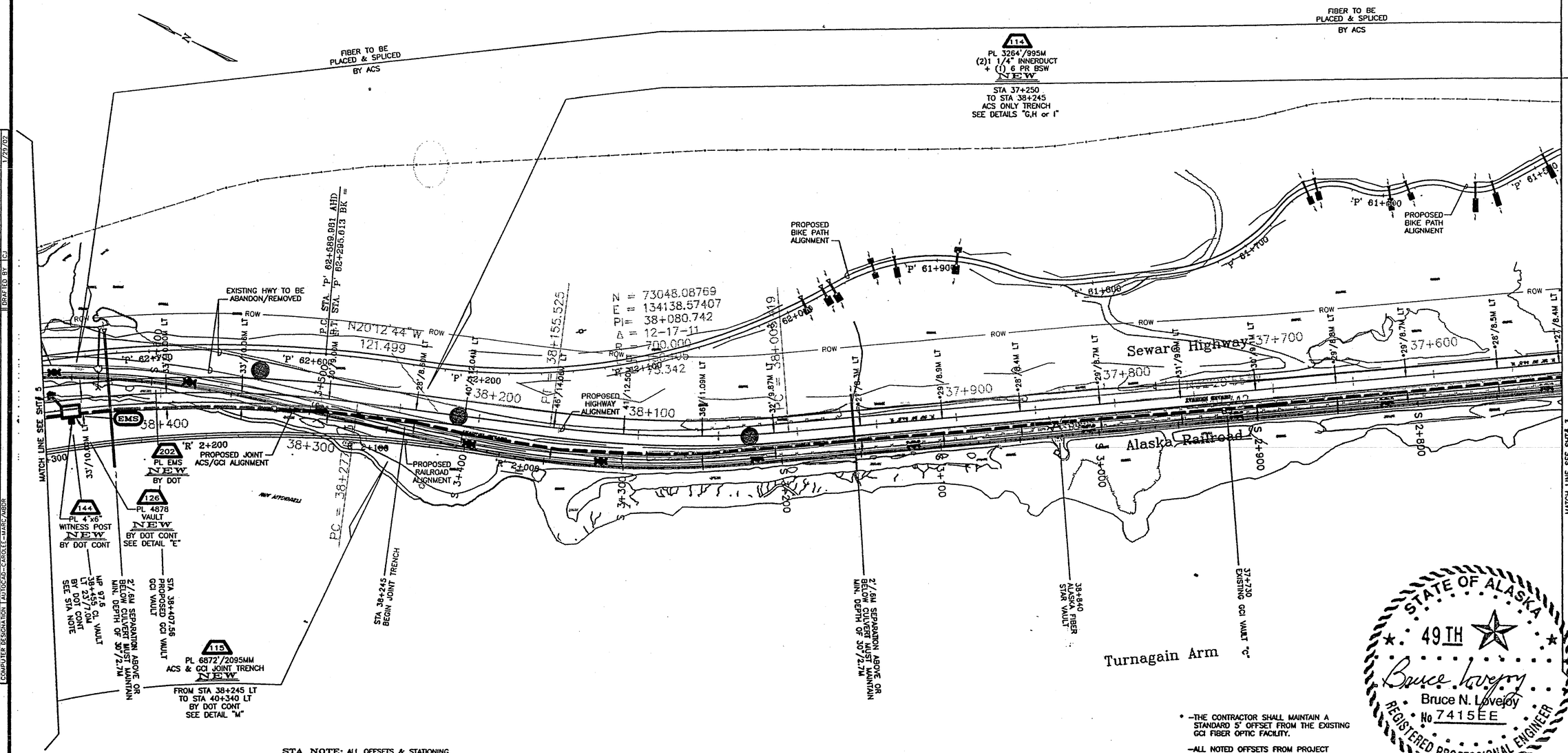
ACS Alaska Communications Systems

TOWNSHIP ANCHORAGE	RANGE	SECTION	DA#	EFRAP#	HELD ORDER: YES NO	PERMITS: YES NO	CUTS REQ: YES NO	PRESSURE: YES NO
ASSOCIATED WORK ORDERS	SOURCE MAPS	REVISION NUMBER–DATE–INITIALS	EXCHANGE GIRD	S#	TITLE: BIRD FLATS FIBER RELOCATION			WO# (2001) 001-0519
		REV.	CAD# 01051901					
		REV.	ENGR/EXT: C. CHRISTENSEN 564-1367 / 244-1191		BOROUGH/CNTY			
		REV.	DWN: MTE	DATE: 5/29/02	SCALE: NTS	APR'D:	ISSUED: 6-7-02	SH. 3 OF 30 SHTS.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	S 4	S 17



STA NOTE: ALL OFFSETS & STATIONING REFERENCING VAULT LOCATIONS ARE INDICATIVE OF ℄ OF VAULTS.

* -THE CONTRACTOR SHALL MAINTAIN A STANDARD 5' OFFSET FROM THE EXISTING GCI FIBER OPTIC FACILITY.

-ALL NOTED OFFSETS FROM PROJECT AND HIGHWAY CENTERLINE ARE FOR INFORMATIONAL PURPOSES ONLY.

STATE OF ALASKA
49TH
Bruce Lovejoy
Bruce N. Lovejoy
No 7415EE
REGISTERED PROFESSIONAL ENGINEER

50 0 50 100 150 200

METRIC BAR SCALE
1 METER = 3937/1200 U.S. SURVEY FEET

DESIGNED BY
CHECKED BY
DRAFTED BY CJ 1/29/02
SPECIFICATIONS
STANDARDS
COMPUTER DESIGNATION VIEW ALL AUTOCAD-CARGLEE-MARC/MBDR

ACS Alaska Communications Systems

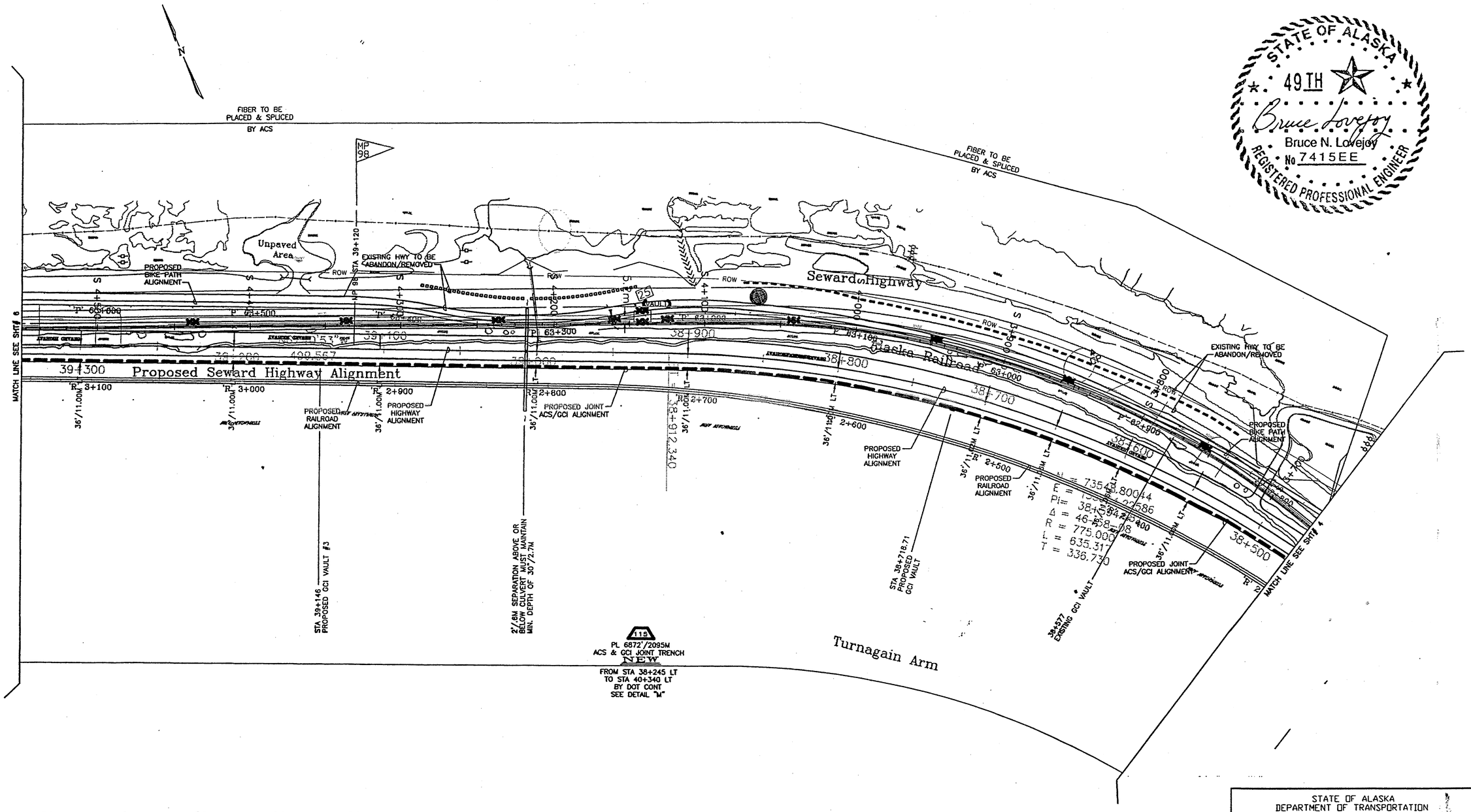
TOWNSHIP ANCHORAGE	RANGE	SECTION	DA#	EFRAP#	HELD ORDER: YES NO	PERMITS: YES NO	CUTS REQ: YES NO	PRESSURE: YES NO
ASSOCIATED WORK ORDERS	SOURCE MAPS	REVISION NUMBER-DATE-INITIALS	EXCHANGE GIRD	S#	TITLE: BIRD FLATS FIBER RELOCATION			WO# (2001) 001-0519
		REV.	CADD# 01051901					
		REV.	ENGR/EXT: C. CHRISTENSEN 564-1367 / 244-1191		BOROUGH/CNTY			
		REV.	DWN: MTE	DATE: 5/29/02	SCALE: NTS	APR'D:	ISSUED: 6-7-02	SH. 4 OF 30 SHTS.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	S 5	S17

STATE OF ALASKA
49TH
Bruce Lovejoy
Bruce N. Lovejoy
No 7415EE
REGISTERED PROFESSIONAL ENGINEER



50 0 50 100 150 200

METRIC BAR SCALE
1 METER = 3937/1200 U.S. SURVEY FEET

DESIGNED BY			
CHECKED BY			
DRAFTED BY	C.J.		1/29/02
SPECIFICATIONS	VIEW ALL		
STANDARDS			
COMPUTER DESIGNATION	AUTOCAD-CARDLE-MARC/MBDR		

ACS Alaska Communications Systems

TOWNSHIP ANCHORAGE	RANGE	SECTION	DA#	EFRAP#	HELD ORDER: YES NO	PERMITS: YES NO	CUTS REQ: YES NO
ASSOCIATED WORK ORDERS	SOURCE MAPS	REVISION NUMBER-DATE-INITIALS	EXCHANGE GIRD	S#	TITLE: BIRD FLATS FIBER RELOCATION		PRESSURE: YES NO
		REV.	CAD# 01051901				WO# (2001) 001-0519
		REV.	ENGR/EXT: C. CHRISTENSEN 564-1367 / 244-1191		BOROUGH/CNTY		
		REV.	DWN: MTE	DATE: 5/29/02	SCALE: NTS	APR'D:	ISSUED: 6-7-02

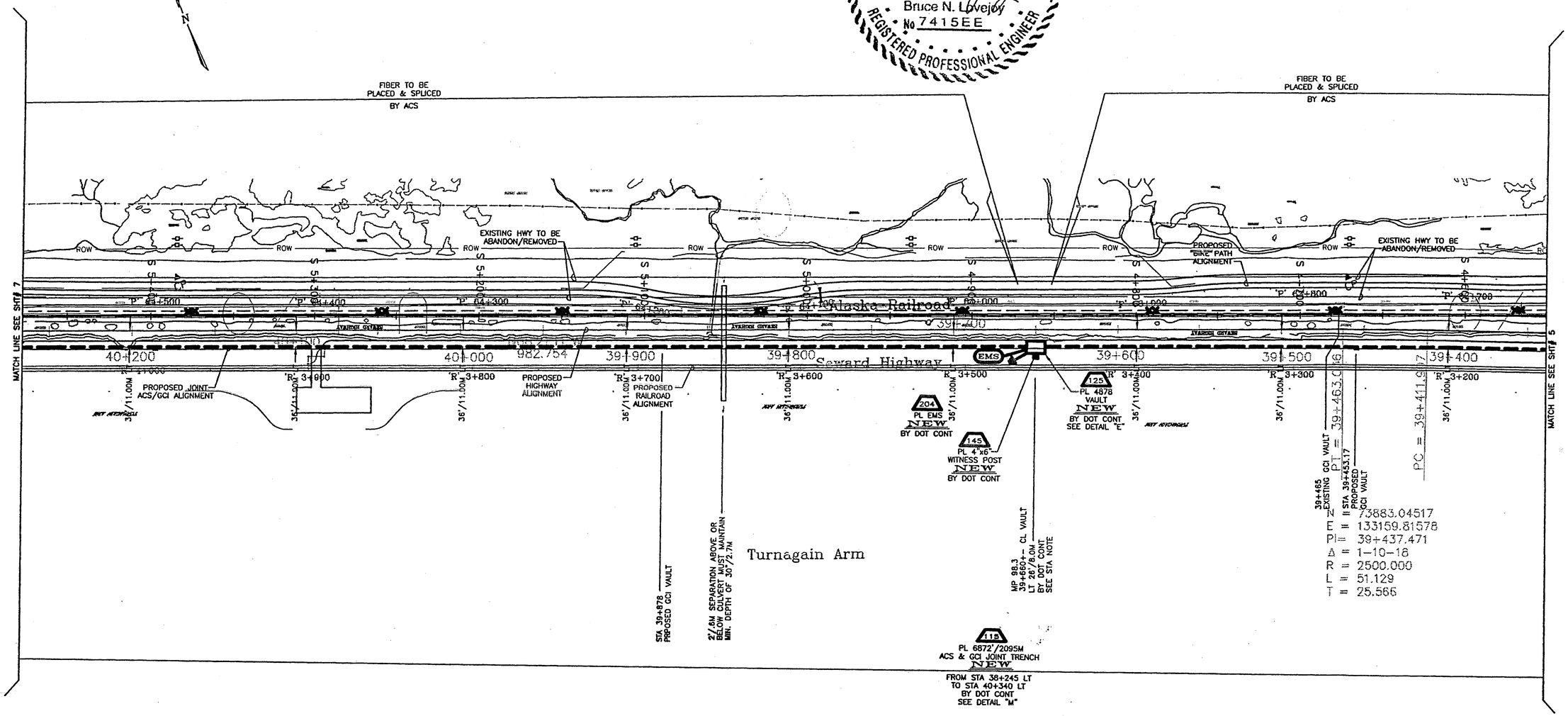
SH. 5 OF 30 SHTS.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	S6	S17

STATE OF ALASKA
49TH
Bruce N. Lovejoy
Bruce N. Lovejoy
No 7415EE
REGISTERED PROFESSIONAL ENGINEER



STA NOTE: ALL OFFSETS & STATIONING REFERENCING VAULT LOCATIONS ARE INDICATIVE OF ℄ OF VAULTS.

METRIC BAR SCALE
1 METER = 3937/1200 U.S. SURVEY FEET

SPECIFICATIONS	
STANDARDS	
COMPUTER DESIGNATION	VIEW ALL
	AUTOCAD-CAROLEE-MARC/AIRDR
DESIGNED BY	
CHECKED BY	
DRAFTED BY	CG
	1/29/02

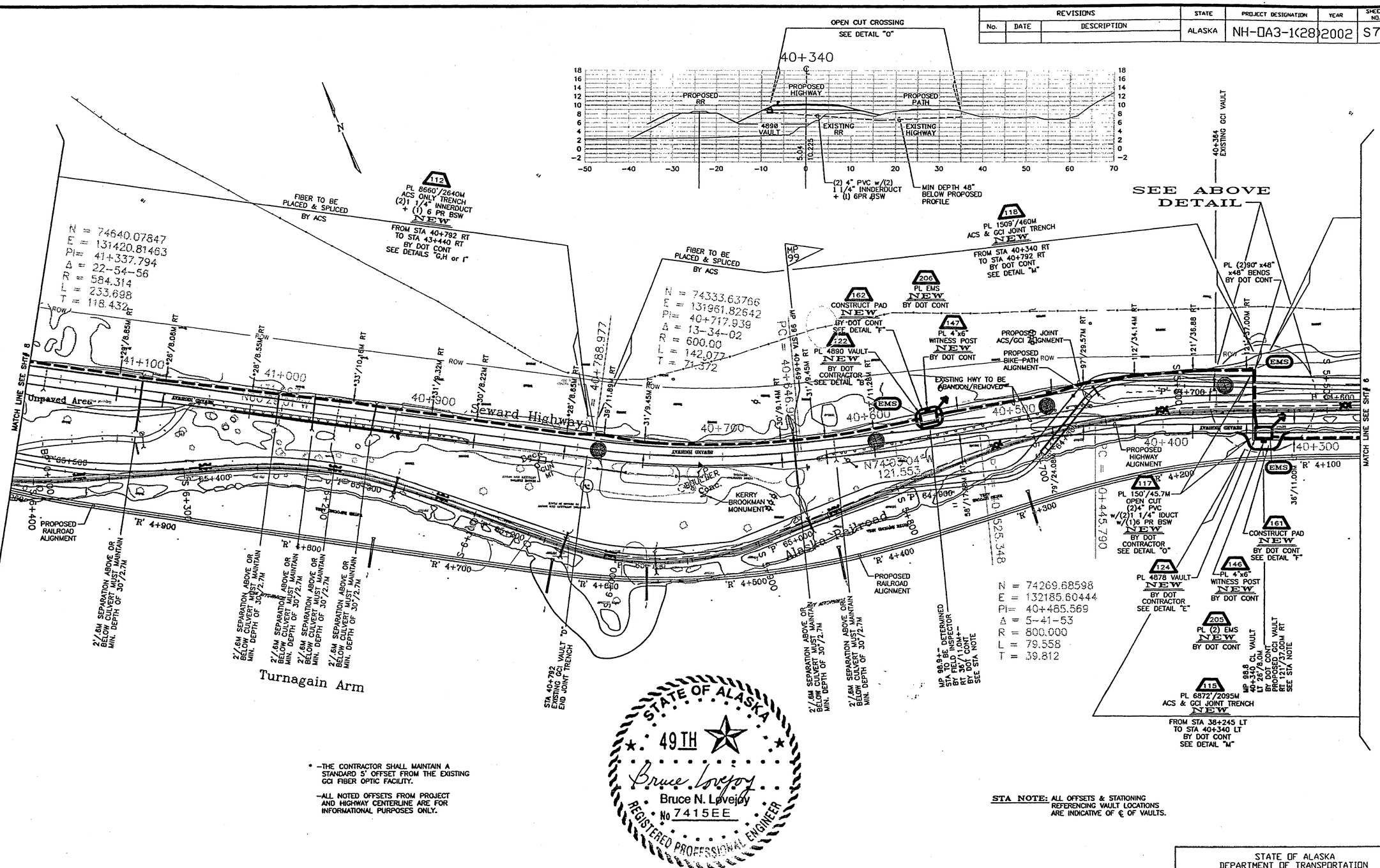
ACS Alaska Communications Systems

TOWNSHIP ANCHORAGE	RANGE	SECTION	DA#	EFRAP#	HELD ORDER: YES NO	PERMITS: YES NO	CUTS REQ: YES NO
ASSOCIATED WORK ORDERS	SOURCE MAPS	REVISION NUMBER-DATE-INITIALS	EXCHANGE GIRD	S#	TITLE: BIRD FLATS FIBER RELOCATION		PRESSURE: YES NO
		REV.	CAD# 01051901				WO# (2001) 001-0519
		REV.	ENGR/EXT: C. CHRISTENSEN 564-1367 / 244-1191		BOROUGH/CNTY		
		REV.	DWG: MTE	DATE: 5/29/02	SCALE: NTS APR'D:	ISSUED: 6-7-02	SH. 6 OF 30 SHTS.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	S7	S17



* –THE CONTRACTOR SHALL MAINTAIN A STANDARD 5' OFFSET FROM THE EXISTING GCI FIBER OPTIC FACILITY.

–ALL NOTED OFFSETS FROM PROJECT AND HIGHWAY CENTERLINE ARE FOR INFORMATIONAL PURPOSES ONLY.

STA NOTE: ALL OFFSETS & STATIONING REFERENCING VAULT LOCATIONS ARE INDICATIVE OF ℄ OF VAULTS.

DESIGNED BY	1/29/02
CHECKED BY	CJ
DRAWN BY	
SPECIFICATIONS	VIEW ALL
STANDARDS	
COMPUTER DESIGNATION	AUTOCAD-CAROLE-MARC/MBDR

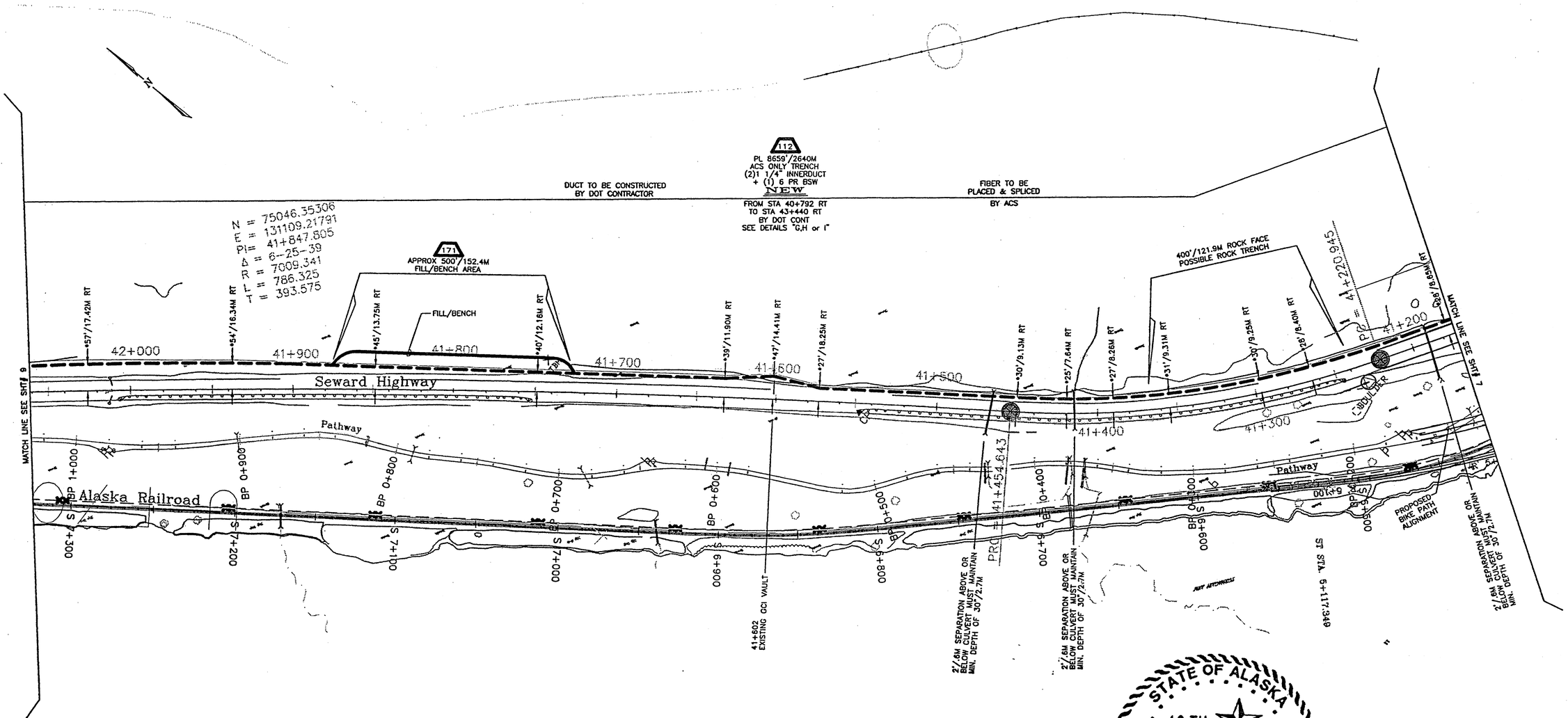
ACS Alaska Communications Systems

TOWNSHIP ANCHORAGE	RANGE	SECTION	DA#	EFRAP#	HOLD ORDER: YES NO	PERMITS: YES NO	CUTS REQ: YES NO
ASSOCIATED WORK ORDERS	SOURCE MAPS	REVISION NUMBER–DATE–INITIALS	EXCHANGE GIRD	S#	TITLE: BIRD FLATS FIBER RELOCATION		PRESSURE: YES NO
		REV.	CAD# 01051901				WO# (2001) 001-0519
		REV.	ENGR/EXT. E. CHRISTENSEN 564-1367 / 244-1191		BOROUGH/CNTY		
		REV.	DWN: MTE	DATE: 5/29/02	SCALE: NTS APR'D:	ISSUED: 6/7/02	SH. 7 OF 30 SHTS.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-DA3-1(28)	2002	S 8	S 17



- –THE CONTRACTOR SHALL MAINTAIN A STANDARD 5' OFFSET FROM THE EXISTING GCI FIBER OPTIC FACILITY.

–ALL NOTED OFFSETS FROM PROJECT AND HIGHWAY CENTERLINE ARE FOR INFORMATIONAL PURPOSES ONLY.

50 0 50 100 150 200

METRIC BAR SCALE
1 METER = 3937/1200 U.S. SURVEY FEET

STATE OF ALASKA 49TH Bruce Lovejoy Bruce N. Lovejoy No 7415EE REGISTERED PROFESSIONAL ENGINEER

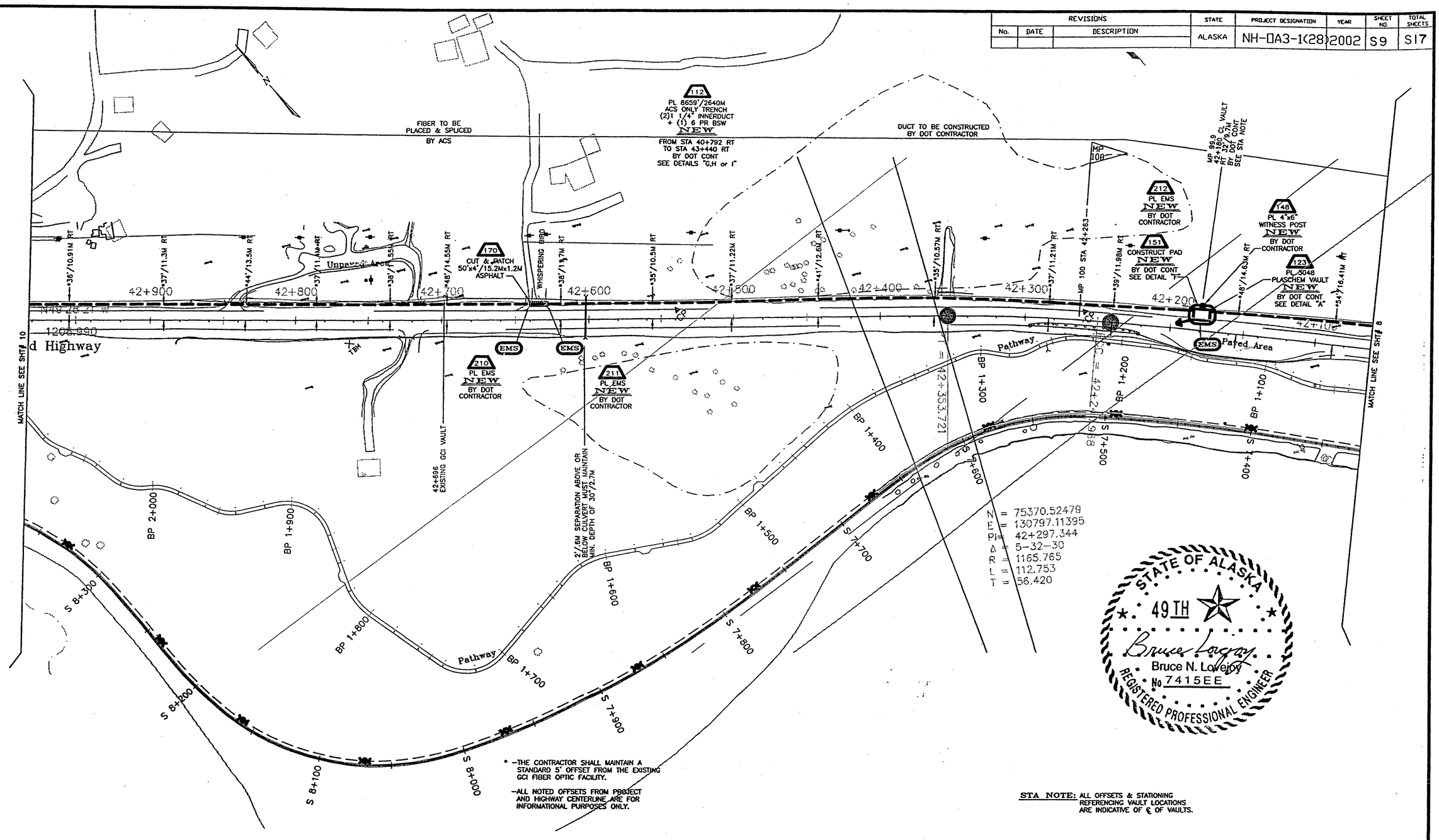
ACS Alaska Communications Systems	TOWNSHIP ANCHORAGE	RANGE	SECTION	DA#	EFRAP#	HELD ORDER: YES NO	PERMITS: YES NO
	ASSOCIATED WORK ORDERS	SOURCE MAPS	REVISION NUMBER–DATE–INITIALS	EXCHANGE GIRD	S#	TITLE: BIRD FLATS FIBER RELOCATION	CUTS REQ: YES NO
			REV.	CADD 01051901			PRESSURE: YES NO
			REV.	ENGR/EXT. E. CHRISTENSEN 564-1367 / 244-1191		BOROUGH/CNTY	WO# (2001) 001-0519
			REV.	DWN: MTE	DATE: 5/29/02	SCALE: NTS APR'D: ISSUED 6-7-02	SH. 8 OF 30 SHTS.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND RECREATIONAL IMPROVEMENTS

SPECIFICATIONS		
STANDARDS		
COMPUTER DESIGNATION	AUTOCAD–CARDLEE–MARK/ARBOR	VIEW ALL
DRAFTED BY	CJ	1/29/02
CHECKED BY		
DESIGNED BY		

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	S9	S17



• –THE CONTRACTOR SHALL MAINTAIN A STANDARD 5' OFFSET FROM THE EXISTING GCI FIBER OPTIC FACILITY.

–ALL NOTED OFFSETS FROM PROJECT AND HIGHWAY CENTERLINE ARE FOR INFORMATIONAL PURPOSES ONLY.

STA NOTE: ALL OFFSETS & STATIONING REFERENCING VAULT LOCATIONS ARE INDICATIVE OF ℄ OF VAULTS.

DESIGNED BY	
CHECKED BY	
DRAWN BY	CJ
1/29/02	
SPECIFICATIONS	
STANDARDS	
COMPUTER DESIGNATION	VIEW ALL
	AUTOCAD–CAROLEE–MARC/ABBR

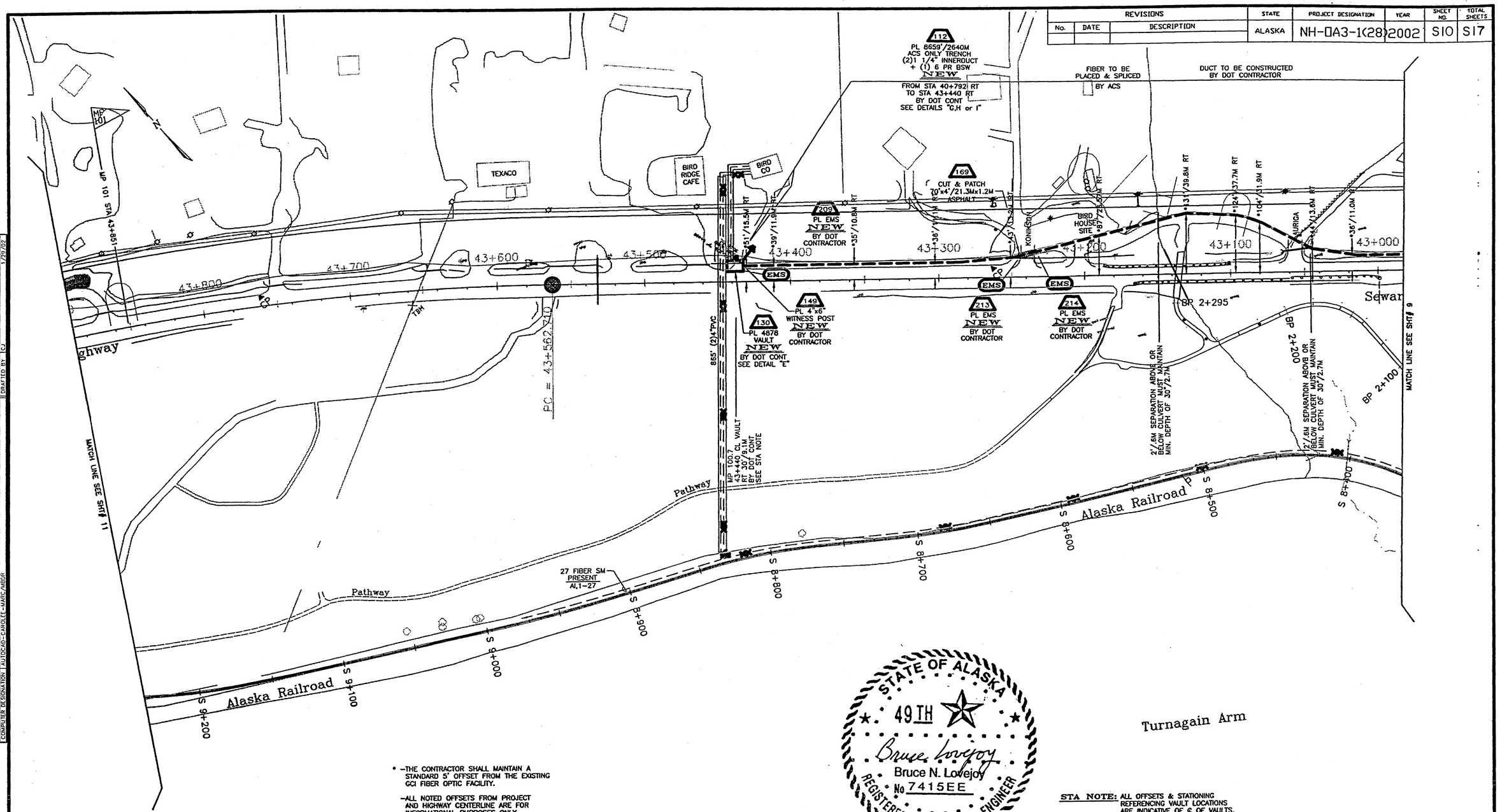
ACS Alaska Communications Systems

TOWNSHIP	RANGE	SECTION	DA#	EFRAP#	HELD ORDER: YES NO	PERMITS: YES NO	CUTS REQ: YES NO	PRESSURE: YES NO
ANCHORAGE					☒ ☐	☒ ☐	☒ ☐	☒ ☐
ASSOCIATED WORK ORDERS	SOURCE MAPS	REVISION NUMBER–DATE–INITIALS	EXCHANGE GIRD	S#	TITLE: BIRD FLATS FIBER RELOCATION			WO# (2001) 001-0519
		REV.	CAD# 01051901					
		REV.	ENGR/EXT: C. CHRISTENSEN 564-1367 / 244-1191		BOROUGH/CITY			
		REV.	DWN: MTE	DATE: 5/29/02	SCALE: NTS	APR'D:	ISSUED: 1-7-02	SH. 9 OF 30 SHTS.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	S10	S17



- –THE CONTRACTOR SHALL MAINTAIN A STANDARD 5' OFFSET FROM THE EXISTING GCI FIBER OPTIC FACILITY.

–ALL NOTED OFFSETS FROM PROJECT AND HIGHWAY CENTERLINE ARE FOR INFORMATIONAL PURPOSES ONLY.

STATE OF ALASKA
49TH
Bruce Lovejoy
Bruce N. Lovejoy
No 7415EE
REGISTERED PROFESSIONAL ENGINEER

STA NOTE: ALL OFFSETS & STATIONING REFERENCING VAULT LOCATIONS ARE INDICATIVE OF ℄ OF VAULTS.

50 0 50 100 150 200

METRIC BAR SCALE
1 METER = 3937/1200 U.S. SURVEY FEET

ACS Alaska Communications Systems	TOWNSHIP ANCHORAGE	RANGE	SECTION	DA#	EFRAP#	HELD ORDER: YES NO ☒ ☐	PERMITS: YES NO ☒ ☐
	ASSOCIATED WORK ORDERS	SOURCE MAPS	REVISION NUMBER–DATE–INITIALS	EXCHANGE GIRD	S#	TITLE: BIRD FLATS FIBER RELOCATION	CUTS REQ: YES NO ☒ ☐
			REV.	CAD# 01051901			
			REV.	ENGR/EXT: C. CHRISTENSEN 564-1367 / 244-1191		BOROUGH/CNTY	
			REV.	DWG: MTE	DATE: 5/29/02	SCALE: NTS APR'D:	ISSUED: 6-7-02

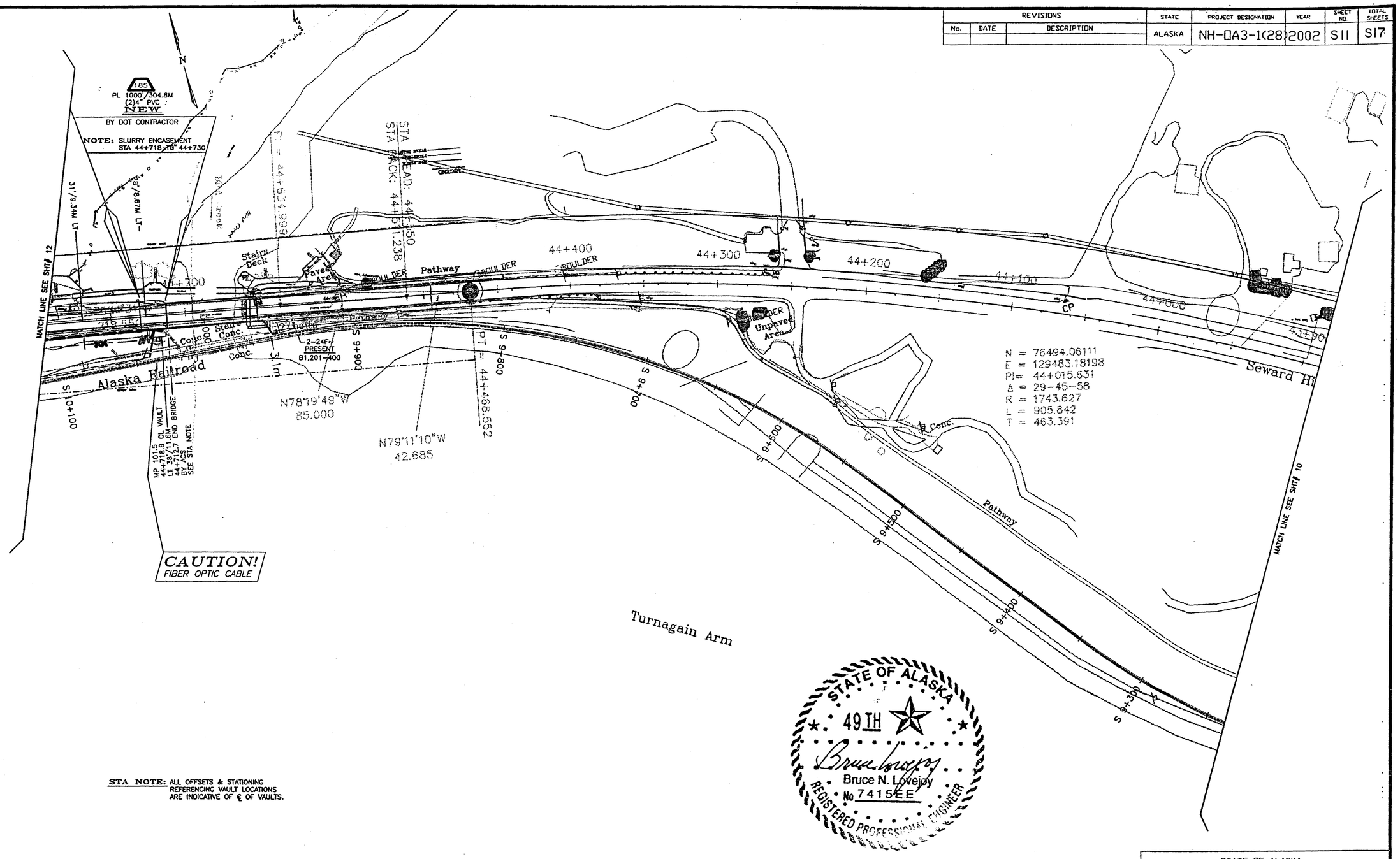
PRESSURE: YES NO ☒ ☐	WO# (2001) 001-0519	SH. 10 OF 30 SHTS.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

SPECIFICATIONS	
STANDARDS	
COMPUTER DESIGNATION	VIEW: ALL
	AUTOCAD–CARLEE–JARIC/ARDR
DESIGNED BY	
CHECKED BY	
DRAFTED BY	CJ
	1/29/02

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	S11	S17



STA NOTE: ALL OFFSETS & STATIONING REFERENCING VAULT LOCATIONS ARE INDICATIVE OF ℄ OF VAULTS.

STATE OF ALASKA
49TH
Bruce N. Lovejoy
No 7415EE
REGISTERED PROFESSIONAL ENGINEER

50 0 50 100 150 200

METRIC BAR SCALE
1 METER = 3937/1200 U.S. SURVEY FEET

ACS Alaska Communications Systems

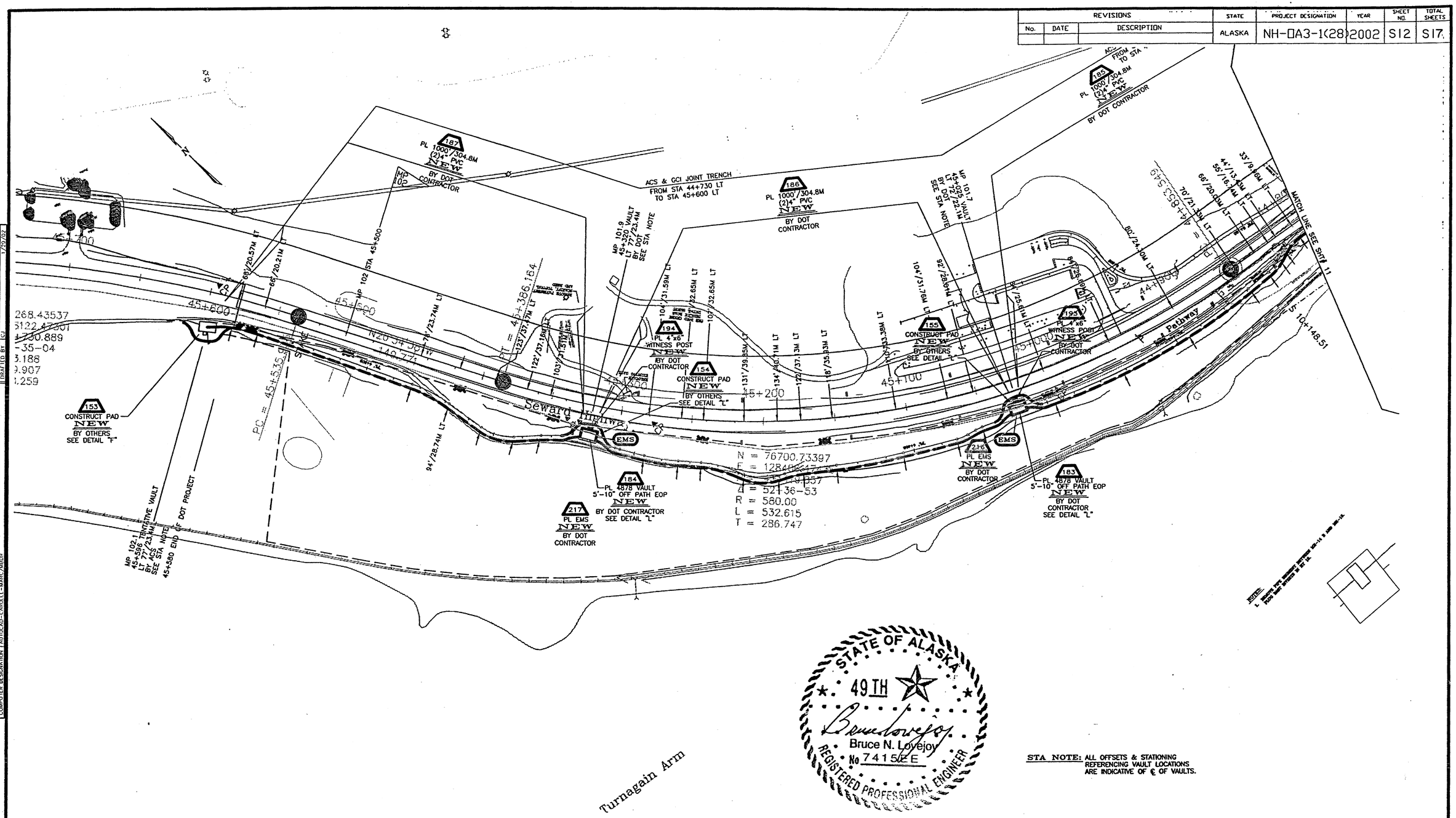
TOWNSHIP ANCHORAGE	RANGE	SECTION	DA#	EFRAP#	HELD ORDER: YES NO	PERMITS: YES NO	CUTS REQ: YES NO	PRESSURE: YES NO
ASSOCIATED WORK ORDERS	SOURCE MAPS	REVISION NUMBER–DATE–INITIALS	EXCHANGE GIRD	S#	TITLE: BIRD FLATS FIBER RELOCATION			WO# (2001) 001-0519
		REV.	CAD# 01051901					
		REV.	ENGR/EXT: C. CHRISTENSEN 564-1367 / 244-1191		BOROUGH/CNTY			
		REV.	DWN: MTE	DATE: 4/17/02	SCALE: NTS	APR'D:	ISSUED: 6-24-02	SH. 11 OF 30 SHTS.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

DESIGNED BY	
CHECKED BY	
DRAFTED BY	CJ 1/29/02
SPECIFICATIONS	
STANDARDS	
COMPUTER DESIGNATION	VIEW ALL ADTOCAD-CAROLEE-MARC/ARBOR

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	S12	S17



STA NOTE: ALL OFFSETS & STATIONING REFERENCING VAULT LOCATIONS ARE INDICATIVE OF ℄ OF VAULTS.

STATE OF ALASKA 49TH Bruce N. Lovejoy No 7415 REGISTERED PROFESSIONAL ENGINEER

50 0 50 100 150 200

METRIC BAR SCALE
1 METER = 3937/1200 U.S. SURVEY FEET

ACS Alaska Communications Systems

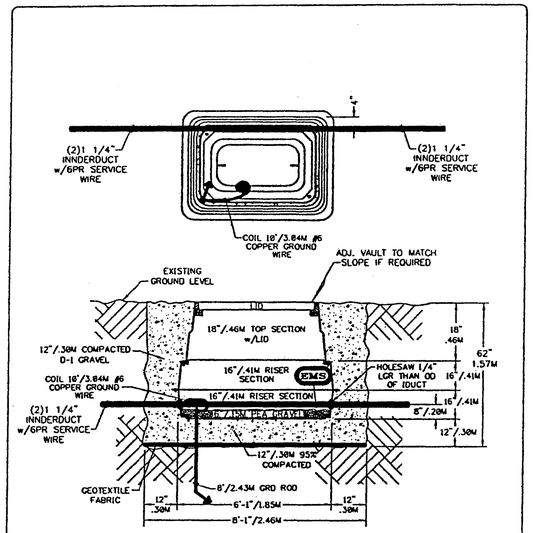
TOWNSHIP ANCHORAGE	RANGE	SECTION	DA#	EFRAP#	HELD ORDER: YES NO	PERMITS: YES NO	CUTS REQ: YES NO	PRESSURE: YES NO
ASSOCIATED WORK ORDERS	SOURCE MAPS	REVISION NUMBER–DATE–INITIALS	EXCHANGE GIRD	S#	TITLE: BIRD FLATS FIBER RELOCATION			WO# (2001) 001-0519
		REV.	CAD# 01051901					
		REV.	ENGR/EXT: C. CHRISTENSEN 564-1367 / 244-1191		BOROUGH/CNTY			
		REV.	DWG: MTE	DATE: 4/17/02	SCALE: NTS	APR'D:	ISSUED: 5-24-02	SH. 12 OF 30 SHTS.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

SPECIFICATIONS | STANDARDS | COMPUTER DESIGNATION | VIEW ALL | AUTOCAD - CHRIS EC - MARC / ARCIP | CHECKED BY | DRAFTED BY | CJ | 1/29/02

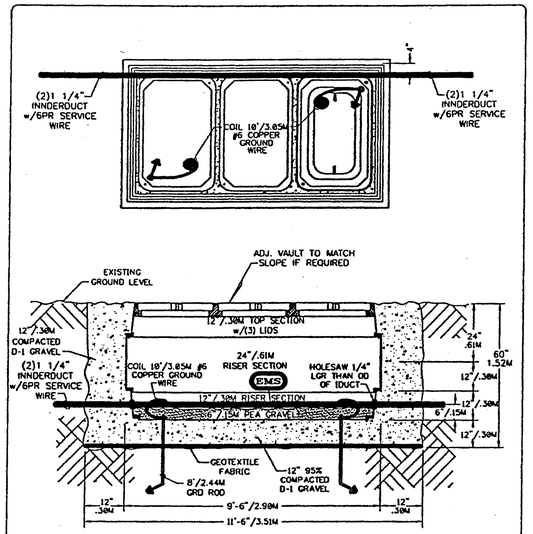
REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	S13	S17



TYPICAL
3048 PLASCHEM
VAULT PLACEMENT
DETAIL "A"
NTS

HOLE SAW TYPICAL INNERDUCT IN ALL VAULTS IN PASS THROUGH CONFIGURATION. SPLICES IN VAULT w/CENTRAL FUSION OR ACS ALUM. SCREW AND COUPLINGS.

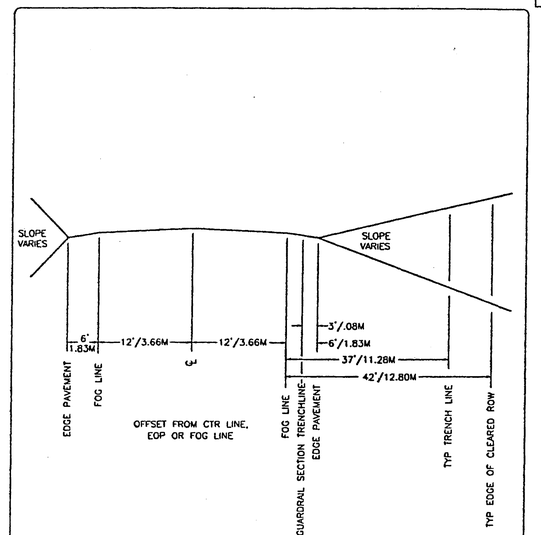
CAD-E87



TYPICAL
4890 PLASCHEM
VAULT PLACEMENT
DETAIL "B"
NTS

HOLE SAW TYPICAL INNERDUCT IN ALL VAULTS IN PASS THROUGH CONFIGURATION. SPLICES IN VAULT w/CENTRAL FUSION OR ACS ALUM. SCREW AND COUPLINGS.

CAD-E86

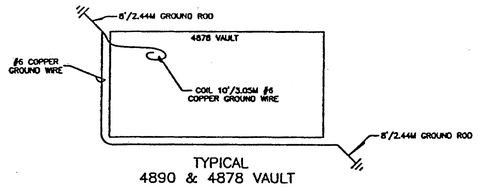


EXISTING HIGHWAY
TYPICAL X-SECTION
DETAIL "C"
NTS

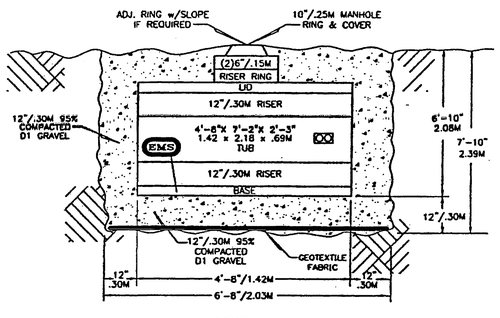
CAD-E91

DETAIL "D"
ELIMINATED
NTS

STATE OF ALASKA
49TH
Bruce Lovejoy
Bruce N. Lovejoy
No 7415EE
REGISTERED PROFESSIONAL ENGINEER

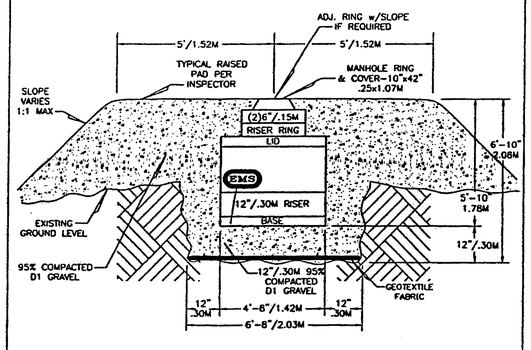


TYPICAL
4890 & 4878 VAULT
GROUND PLACEMENTS
NTS



TYPICAL
4878 VAULT PLACEMENT
DETAIL "E"
NTS

CAD-E70

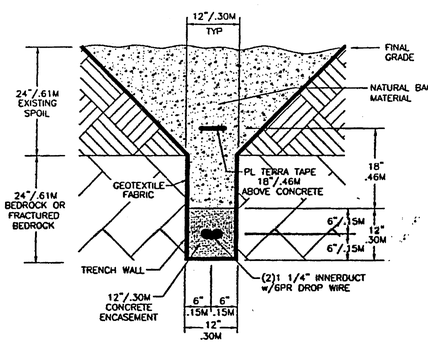


TYPICAL PAD
DETAIL "F"
NTS

CAD-E35

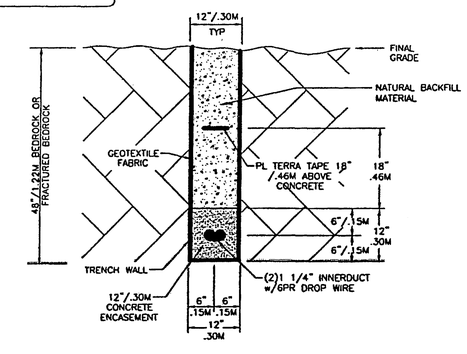
APPROX. HWY. STA. 36+225 TO 38+245 LT
40+792 TO 43+440 RT

NOTE: WITHIN STA 36+015 TO 36+225 RT SAND ENCASEMENT IS ACCEPTABLE PER INSPECTORS APPROVAL



2'/.61M ROCK TRENCH
w/2'/.61M STD EXCAVATION
DETAIL "G"
NTS

CAD-E93



4'/1.22M ROCK TRENCH
DETAIL "H"
NTS

CAD-E94

CONSTRUCTION NOTE:

MH & HH RACKING WILL BE INCLUDED w/VAULT INSTALLATION.

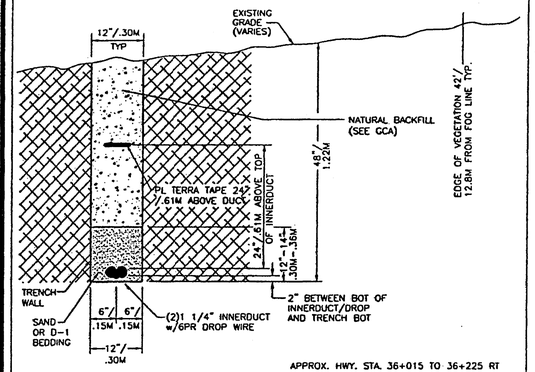
ACS Alaska Communications Systems	TOWNSHIP ANCHORAGE	RANGE	SECTION	DA#	EFRA#	HELD ORDER: YES NO ☒ ☐	PERMITS: YES NO ☒ ☐	CUTS REQ: YES NO ☒ ☐	PRESSURE: YES NO ☒ ☐
	ASSOCIATED WORK ORDERS	SOURCE MAPS	REVISION NUMBER–DATE–INITIALS	EXCHANGE GIRD	S#	TITLE: BIRD FLATS FIBER RELOCATION			WO# (2001) 001-0519
			REV.	CAD# 01051901					
			REV.	ENGR/EXT: C. CHRISTENSEN 564-1367 / 244-1191		BOROUGH/CITY			
			REV.	DWN: MTE	DATE: 5/29/02	SCALE: NTS	APR'D:	ISSUED: 6-7-02	SH. 13 OF 30 SHTS.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

SPECIFICATIONS	
STANDARDS	
COMPUTER DESIGNATION	AUTOCAD-CAROLEE-MARK/ABOR
VIEW ALL	
DRAFTED BY:	CJ
CHECKED BY:	
LIB SCRIPT BY:	1/29/02

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-DA3-1(28)	2002	S14	S17

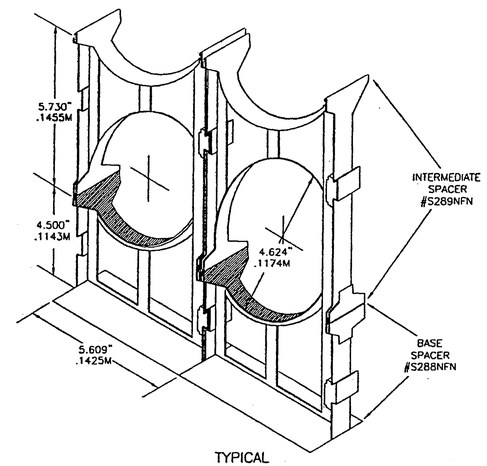


TYPICAL TRENCH SEWARD HIGHWAY
5' OFFSET FROM GCI
DETAIL "I"
NTS

CAD-E95

DETAIL "J"
ELIMINATED
NTS

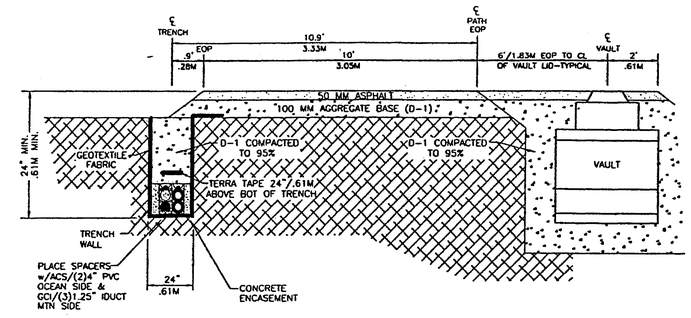
LAMSON & SESSIONS PLASTIC SPACER DETAIL



TYPICAL
LAMSON & SESSIONS
PLASTIC SPACER
DETAIL "K"
NTS

PART# S289NFN & S288NFN

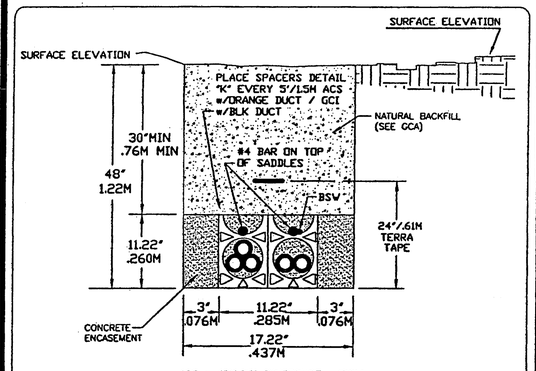
CAD-E82



CONST NOTE: CONTRACTOR SHALL TRANSITION ACS TRENCH ALIGNMENT TO INTERCEPT ACS VAULTS 40' FROM VAULT LOCATION.

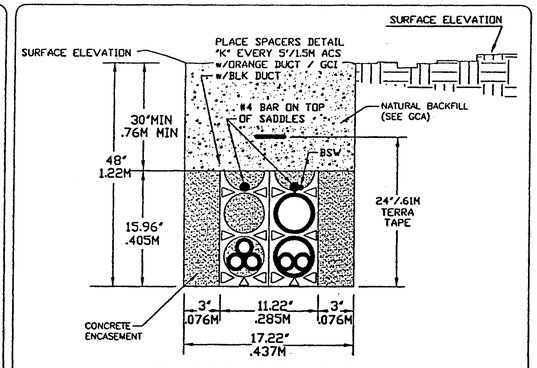
TYPICAL PATHWAY
TRENCH & MH OFFSET
DETAIL "L"
NTS

CAD-E98



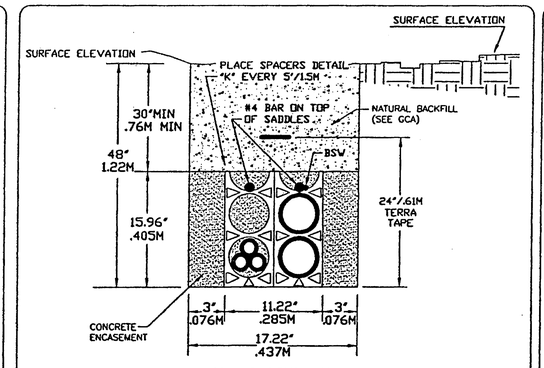
TYPICAL JOINT
TRENCH PROFILE
DETAIL "M"
NTS

APPROX. HWY. STA.
38+245 TO 40+340 LT
ACS MTN SIDE/GCI OCEAN SIDE
40+340 TO 40+792 RT
ACS OCEAN SIDE/GCI MTN SIDE



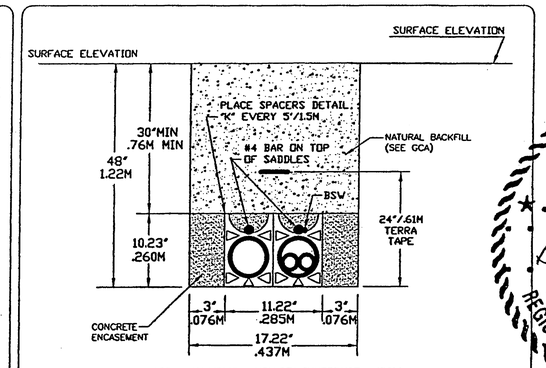
TYPICAL JOINT TRENCH
HIGHWAY CROSSING
DETAIL "O"
NTS

APPROX. HWY. STA.
40+340 LT TO 40+340 RT



TYPICAL JOINT
TRENCH PROFILE
DETAIL "Q"
NTS

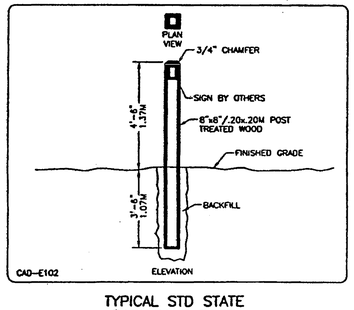
APPROX. HWY. STA.
44+730 TO 45+596 LT



TYPICAL TRENCH
HIGHWAY CROSSING
DETAIL "R"
NTS

APPROX. HWY. STA.
36+225 RT TO 36+225 LT

STATE OF ALASKA
49TH
Bruce Loveyoy
Bruce N. Loveyoy
No 7415EE
REGISTERED PROFESSIONAL ENGINEER



CAD-E102

TYPICAL STD STATE
PARK MILE POST
DETAIL "P"
NTS

DETAIL "N"
ELIMINATED
NTS

ACS Alaska Communications Systems	TOWNSHIP ANCHORAGE	RANGE	SECTION	DATE	ETRAP#	HELD ORDER: YES NO	PERMITS: YES NO	CUTS REQ: YES NO	PRESSURE: YES NO
	ASSOCIATED WORK ORDERS	SOURCE MAPS	REVISION NUMBER-DATE-INITIALS	EXCHANGE GIRD	S#	TITLE: BIRD FLATS FIBER RELOCATION			WO# (2001) 001-0519
			REV.	CAD# 01051901					
			REV.	ENGR/EXT: C. CHRISTENSEN 564-1367 / 244-1191		BOROUGH/CITY			
			REV.	DWN: MTE	DATE: 5/29/02	SCALE: NTS	APR'D:	ISSUED: 6-7-02	SH. 14 OF 30 SHTS.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

DESIGNED BY		1/29/02
CHECKED BY		
DRAFTED BY	CJ	

SPECIFICATIONS
STANDARDS
COMPUTER DESIGNATION VIEW ALL AUTOCAD-CAROLTE-MARC/ARDOR

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	S15	S17

*CONSTRUCTION OPERATIONS:

OP#	ELEM	FCC	RESP	SHT#	DESCRIPTION
101					
102	21	244100	DOT/CONT	2	CUT & PATCH 4'x24'/1.2x7.3M ASPHALT
103					
104					
105					
106					
107					
108					
109					
110	21	244100	DOT/CONT	2-3	PL 4050'/1234M (2)1-1/4" IDU+(1)6 PR BSW-ACS ONLY
111					
112	21	244100	DOT/CONT	7-10	PL 8660'/2640M (2)1-1/4" IDU+(1)6 PR BSW-ACS ONLY TRENCH
113	21	244100	DOT/CONT	2	PL 100'/30M (2)4" PVC+(3)1-1/4" IDU+(1)6 PR BSW
114	21	244100	DOT/CONT	3-4	PL 3264'/995M (2)1 1/4" IDU+(1)6PR BSW-ACS ONLY TRENCH
115	21	244100	DOT/CONT	4-7	PL 6872'/2095M (2)1 1/4" IDU+(1)6PR BSW+(3)GCI IDU-JOINT TR.
116					
117	21	244100	DOT/CONT	7	PL 150'/46M (2)4" PVC+(3)1-1/4" IDU+(1)6 PR BSW-JOINT OPEN CUT
118	21	244100	DOT/CONT	7	PL 1509'/460M (2)1 1/4" IDU+(1)6PR BSW+(3)GCI IDU-JOINT TR.
119					
120					
121					
122	21	244100	DOT/CONT	7	PL 4890 PLASCHEM VAULT
123	21	244100	DOT/CONT	9	PL 3048 PLASCHEM VAULT
124	21	244100	DOT/CONT	7	PL 4878 VAULT w/FRAME & COVER
125	21	244100	DOT/CONT	6	PL 4878 VAULT w/FRAME & COVER
126	21	244100	DOT/CONT	5	PL 4878 VAULT w/FRAME & COVER
127	21	244100	DOT/CONT	3	PL 4878 VAULT w/FRAME & COVER
128	21	244100	DOT/CONT	2	PL 4878 VAULT w/FRAME & COVER
129	21	244100	DOT/CONT	2	PL 4878 VAULT w/FRAME & COVER
130	21	244100	DOT/CONT	10	PL 4878 VAULT w/FRAME & COVER
131					
132					
133					
134					
135					
136					
137					
138					
139					
140					
141	21	244100	DOT/CONT	2	PL 4x6 WITNESS POST
142	21	244100	DOT/CONT	2	PL 4x6 WITNESS POST
143	21	244100	DOT/CONT	2	PL 4x6 WITNESS POST
144	21	244100	DOT/CONT	4	PL 4x6 WITNESS POST
145	21	244100	DOT/CONT	6	PL 4x6 WITNESS POST
146	21	244100	DOT/CONT	7	PL 4x6 WITNESS POST
147	21	244100	DOT/CONT	7	PL 4x6 WITNESS POST
148	21	244100	DOT/CONT	9	PL 4x6 WITNESS POST
149	21	244100	DOT/CONT	10	PL 4x6 WITNESS POST
150					
151	21	244100	DOT/CONT	9	CONSTRUCT PAD FOR VAULT
152	21	244100	DOT/CONT	2	PL EMS
153	21	244100	DOT/CONT	12	CONSTRUCT PAD FOR VAULT
154	21	244100	DOT/CONT	12	CONSTRUCT PAD FOR VAULT
155	21	244100	DOT/CONT	12	CONSTRUCT PAD FOR VAULT
156	21	244100	DOT/CONT	2	CONSTRUCT PAD FOR VAULT
157	21	244100	DOT/CONT	2	CONSTRUCT PAD FOR VAULT
158					
159					
160					
161	21	244100	DOT/CONT	7	CONSTRUCT PAD FOR VAULT
162	21	244100	DOT/CONT	7	CONSTRUCT PAD FOR VAULT
163					
164					
165					
166					
167					
168	21	244100	DOT/CONT	2	PL 40'/12.2M (2)4" PVC+(3)1-1/4" IDU+(1)6 PR BSW
169	21	244100	DOT/CONT	10	RMV & REPLACE 4'x70'/1.2x21.3M ASPHALT
170	21	244100	DOT/CONT	9	RMV & REPLACE 4'x50'/1.2x15.2M ASPHALT
171	21	244100	DOT/CONT	8	FILL AND BENCH 500'/152M
172					
173					
174					
175					
176					
177					
178					
179					
180					
181					
182					
183	12	244100	DOT/CONT	12	PL 4878 VAULT w/FRAME & COVER
184	21	244100	DOT/CONT	12	PL 4878 VAULT w/FRAME & COVER
185	21	244100	DOT/CONT	12	PL 1000'/305M (2)4" PVC
186	21	244100	DOT/CONT	12	PL 1000'/305M (2)4" PVC
187	21	244100	DOT/CONT	12	PL 1000'/305M (2)4" PVC
188					
189					
190					
191					
192					
193					
194					
195					

CONSTRUCTION OPERATIONS CONT:

OP#	ELEM	FCC	RESP	SHT#	DESCRIPTION
196					
197					
198					
199	21	244100	DOT/CONT	2	PL EMS
200	21	244100	DOT/CONT	2	PL EMS
201	21	244100	DOT/CONT	3	PL EMS
202	21	244100	DOT/CONT	4	PL EMS
203					
204	21	244100	DOT/CONT	6	PL EMS
205	21	244100	DOT/CONT	7	PL EMS
206	30	244100	DOT/CONT	7	PL EMS
207					
208	21	244100	DOT/CONT	2	PL EMS
209	21	244100	DOT/CONT	10	PL EMS
210	21	244100	DOT/CONT	9	PL EMS
211	21	244100	DOT/CONT	9	PL EMS
212	21	244100	DOT/CONT	9	PL EMS
213	21	244100	DOT/CONT	10	PL EMS
214	21	244100	DOT/CONT	10	PL EMS
215					
216	21	244100	DOT/CONT	12	PL EMS
217	12	244100	DOT/CONT	12	PL EMS
218					
219					
220					
221	21	244100	DOT/CONT	2	PL EMS
222	21	244100	DOT/CONT	2	PL EMS

*ALL INNERDUCT AND SPACERS TO BE SUPPLIED BY DOT CONTRACTOR.

VAULT SCHEDULE

APPROX * STA.	TOTAL ROUTE LENGTH	DIST BETWEEN VAULTS	VAULT TYPE	PLACED BY	LINE OP#	TOTAL ROUTE LENGTH	DIST BETWEEN VAULTS
35+940	0		EXISTING	EXISTING	EXISTING	0	
		300'					91.4M
36+015	300'		4878	ACS	138	91.4M	
		740'					225.6M
36+225	1,040'		4878	DOT/CONT	128	317.0M	
		100'					30.5M
36+225	1,140'		4878	DOT/CONT	129	347.5M	
		1,470'					448.1M
36+645	2,610'		4878	ACS	139	795.5M	
		0'					0
36+645	0'		4878	ACS	131	0	
		1,984'					604.7M
37+250	4,594'		4878	DOT/CONT	127	1400.3M	
		3,970'					1210.1M
36+50	8,664'		4878	DOT/CONT	126	2640.8M	
		3,952'					1204.6M
48+50	12,616'		4878	DOT/CONT	125	3845.4M	
		2,230'					679.7M
40+340	14,846'		4878	DOT/CONT	124	4525.1M	
		875'					267.9M
40+560	15,721'		4890	DOT/CONT	122	4793.0M	
		5,310'					1617.3M
42+180	21,031'		3048	DOT/CONT	123	6410.3M	
		4,134'					1260.0M
43+440	25,165'		4878	DOT/CONT	130	7670.3M	
		270'					82.3M
CO	25,435'		EXISTING	EXISTING	EXISTING	7752.6M	

COPPER VAULTS

44+718	4878	ACS	75
45+025	4878	DOT/CONT	83
45+320	4878	DOT/CONT	84
45+596	4878	ACS	79

"PRECAST CONCRETE INC." 4878 VAULTS & COMPONENTS INCLUDING LIDS & CAST IRON FRAMES & COVERS TO BE SUPPLIED BY DOT CONTRACTOR.

STATE OF ALASKA
49TH
Bruce Lovejoy
Bruce N. Lovejoy
No 7415EE
REGISTERED PROFESSIONAL ENGINEER

ACS Alaska Communications Systems	TOWNSHIP ANCHORAGE	RANGE	SECTION	DA#	EFRAP#	HELD ORDER: YES NO	PERMITS: YES NO	CUTS REQ: YES NO	PRESSURE: YES NO		
	ASSOCIATED WORK ORDERS	SOURCE MAPS	REVISION NUMBER-DATE-INITIALS	EXCHANGE GIRD	S#	TITLE: BIRD FLATS FIBER RELOCATION			WO# (2001) 001-0519		
			REV.	CAD# 01051901		BOROUGH/CNTY					
			REV.	ENGR/EXT: C. CHRISTENSEN 564-1367 / 244-1191							
			REV.	DWN: MTE	DATE: 5/29/02	SCALE: NTS	APR'D:	ISSUED: 6-7-02	SH. 15 OF 30 SHTS.		

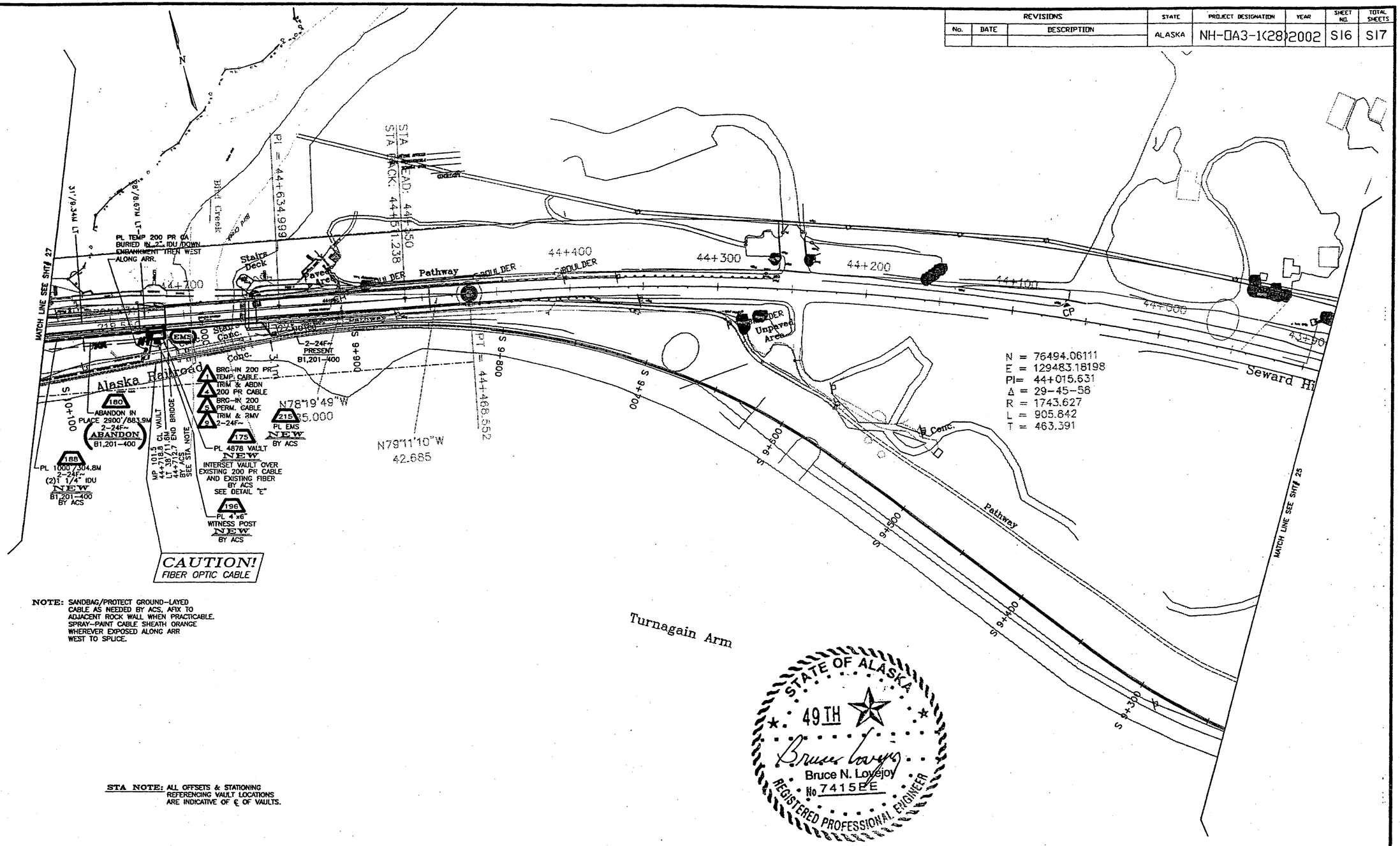
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

DESIGNED BY		
CHECKED BY		
DRAFTED BY	CJ	1/29/02

SPECIFICATIONS
STANDARDS
COMPUTER DESIGNATION AUTOCAD-CARCLEE-MARC/AMBER
VIEW ALL

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	S16	S17



NOTE: SANDBAG/PROTECT GROUND-LAYED CABLE AS NEEDED BY ACS, AFIX TO ADJACENT ROCK WALL WHEN PRACTICABLE. SPRAY-PAINT CABLE SHEATH ORANGE WHEREVER EXPOSED ALONG ARR WEST TO SPLICE.

STA NOTE: ALL OFFSETS & STATIONING REFERENCING VAULT LOCATIONS ARE INDICATIVE OF ℄ OF VAULTS.

STATE OF ALASKA
49TH
Bruce N. Loxejoy
No 7415 PE
REGISTERED PROFESSIONAL ENGINEER

50 0 50 100 150 200

METRIC BAR SCALE
1 METER = 3937/1200 U.S. SURVEY FEET

SPECIFICATIONS	
STANDARDS	NEW ALL
COMPUTER DESIGNATION	AUTOCAD-CAROLLE-MARC/NBDR

DESIGNED BY
CHECKED BY
DRAFTED BY CJ
1/29/02

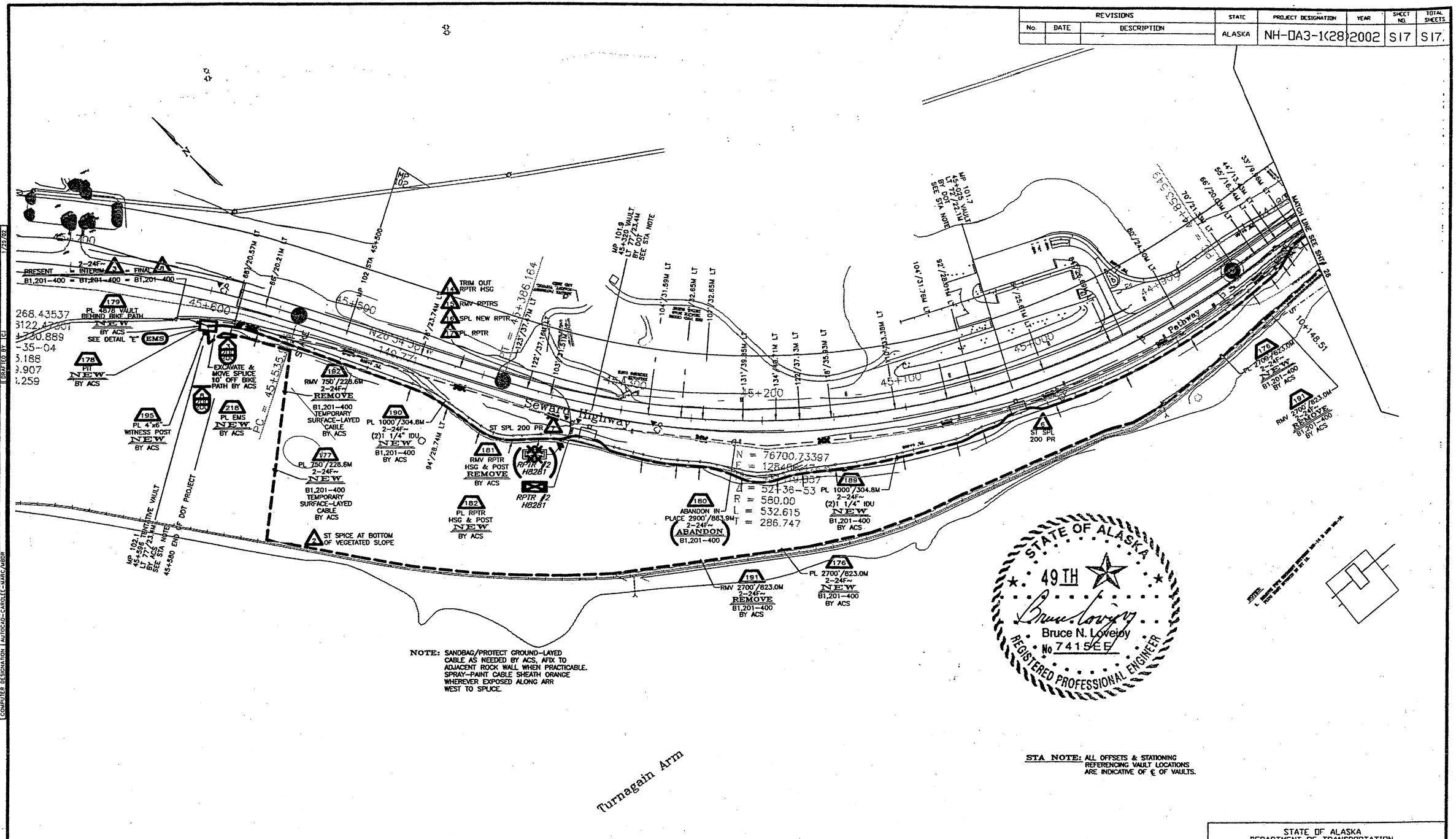
ACS Alaska Communications Systems

TOWNSHIP ANCHORAGE	RANGE	SECTION	DA#	EFRA#	HOLD ORDER: YES NO	PERMITS: YES NO	CUTS REQ: YES NO	PRESSURE: YES NO
ASSOCIATED WORK ORDERS	SOURCE MAPS	REVISION NUMBER-DATE-INITIALS	EXCHANGE GIRD	S#	TITLE: BIRD FLATS FIBER RELOCATION			WO# (2001) 001-0519
		REV.	CAD# 01051901					
		REV.	ENGR/EXT: C. CHRISTENSEN 564-1367 / 244-[illegible]		BOROUGH/CITY			
		REV.	DWN: MTE	DATE: 4/17/02	SCALE: NTS	APR'D:	ISSUED: 5-24-02	SH. 26 OF 30 SHTS.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-DA3-1(28)	2002	S17	S17



STA NOTE: ALL OFFSETS & STATIONING REFERENCING VAULT LOCATIONS ARE INDICATIVE OF ℄ OF VAULTS.

50 0 50 100 150 200

METRIC BAR SCALE
1 METER = 3937/1200 U.S. SURVEY FEET

ACS Alaska Communications Systems

TOWNSHIP ANCHORAGE	RANGE	SECTION	DA#	EFRAP#	HELD ORDER: YES NO	PERMITS: YES NO	CUTS REQ: YES NO	PRESSURE: YES NO
ASSOCIATED WORK ORDERS	SOURCE MAPS	REVISION NUMBER-DATE-INITIALS	EXCHANGE GIRD	SI#	TITLE: BIRD FLATS FIBER RELOCATION			WO# (2001) 001-0519
		REV.	CAD# 0105190					
		REV.	ENGR/EXT: C. CHRISTENSEN 564-1367 / 244-1195		BOROUGH/CNTY			
		REV.	DWN: MTE	DATE: 4/17/02	SCALE: NTS	APR'D:	ISSUED: 5-24-02	SH. 27 OF 30 SHTS.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

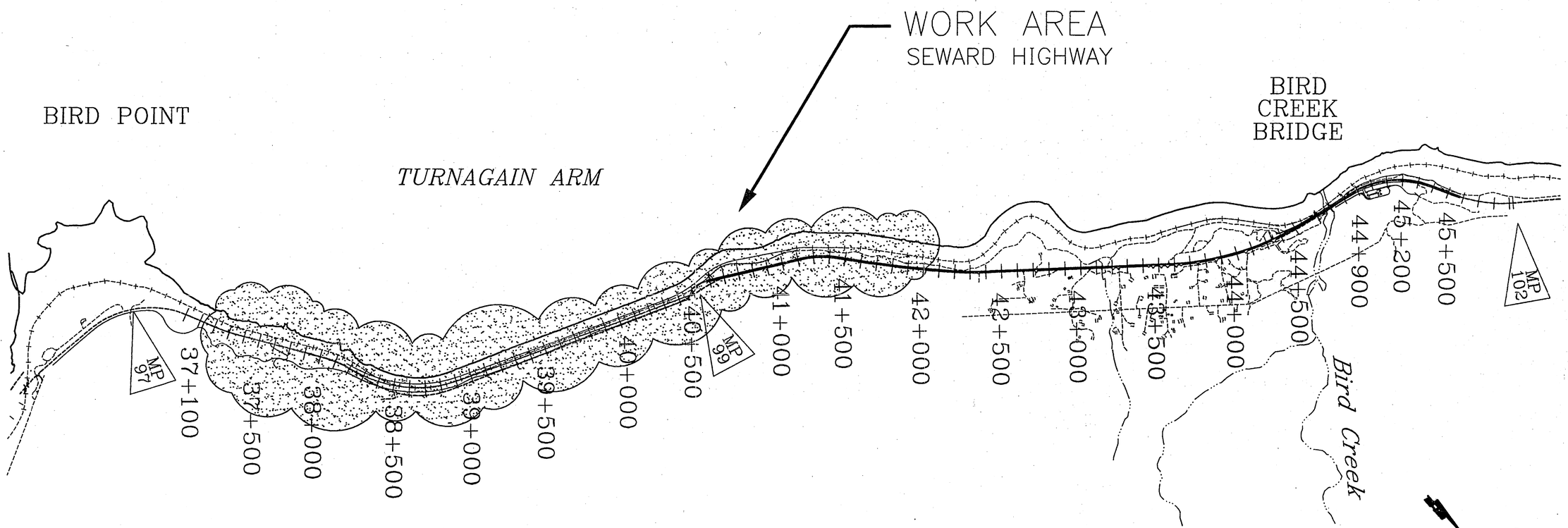
SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

SPECIFICATIONS | STANDARDS | COMPUTER DESIGNATION | VIEW ALL | AUTOCAD-CAROLE-MARC/ARBOR | CHECKED BY | DRAFTED BY | CJ | 1/29/02

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	T1	T23

DESIGNED BY		
CHECKED BY		
DRAFTED BY	CJ	1/29/02

SPECIFICATIONS	
STANDARDS	VIEW ALL
COMPUTER DESIGNATION	AUTOCAD-CAROLEE-MARC/MBDR



SEWARD HIGHWAY, MP 96 TO 102

STATE OF ALASKA
49TH
Bruce Lovejoy
Bruce N. Lovejoy
No 7415EE
REGISTERED PROFESSIONAL ENGINEER

REV:	DATE:		REVISIONS

TEMPTEL, INC.
A SUBSIDIARY OF MID-STATE CONSULTANTS
1075 EAST 72ND AVENUE
ANCHORAGE, ALASKA 99518
(907)258-7867 FAX (907)258-0616

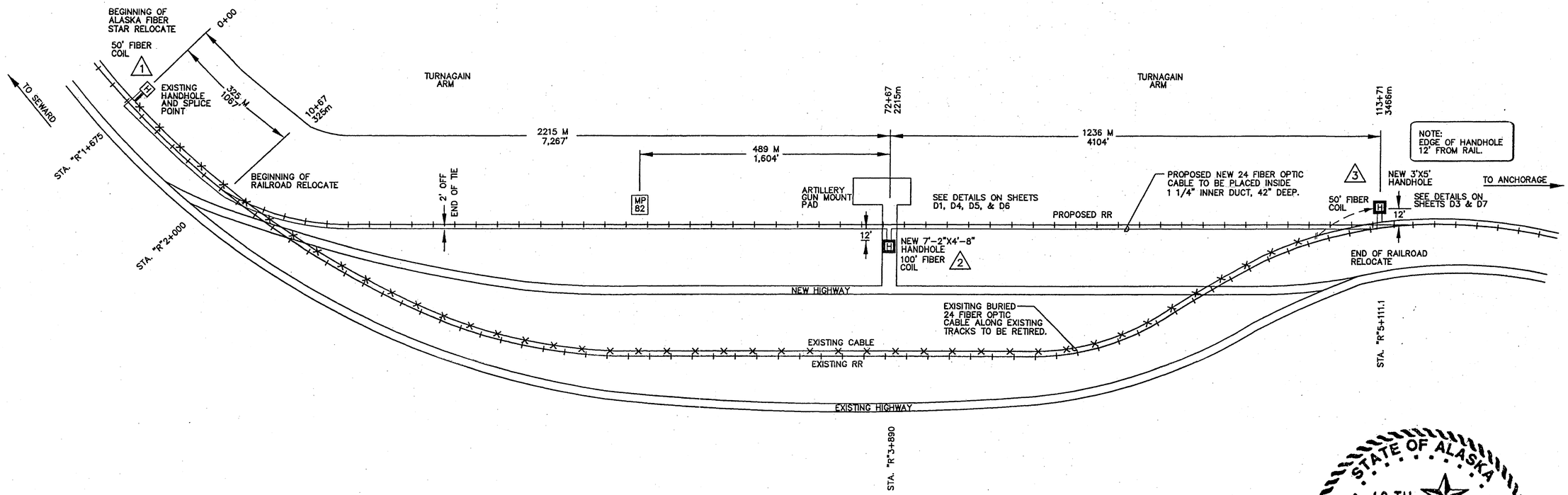
ALASKA FIBER STAR, LLC

BIRD CREEK
RR RELOCATE

BIRD CREEK ALASKA

SCALE: N.T.S.	DATE: 4/5/02	DRWN BY: KGS	ENGR: JG
REVISION:	SHT. 1 OF 1	DRG. NO: BIRD CREEK	

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	T2	T23



DESIGNED BY		
CHECKED BY		
DRAFTED BY	CJ	1/29/02
SPECIFICATIONS	VIEW ALL	
STANDARDS		
COMPUTER DESIGNATION	AUTOCAD-CAROLEE-MARC/MBDR	

NOTE:

1. CONTRACTOR FOR D.O.T. DOING RR RELOCATION WILL BE REQUIRED TO PLACE NEW 1 1/4" INNER DUCT FROM HANDHOLE AT STA 1+675 TO NEW HAND HOLE AT STA. 3+890, CONTINUING ON TO NEW HANDHOLE AT R STA. 5111.1. CONTRACTOR WILL ALSO BE REQUIRED TO TRANSPORT 2 NEW HANDHOLES TO JOB SITE AND WILL BE RESPONSIBLE FOR PLACING ONE HANDHOLE AT STA 3+890.

2. MINIMUM DEPTH OF FIBER INNERDUCT BESIDE RR TRACKS 121.92cm (48"), MINIMUM DEPTH UNDER RR TRACKS 157.48cm (62'). ANY DEVIATIONS FROM PRESCRIBED DEPTHS MUST BE APPROVED BY AN AFS INSPECTOR PRIOR TO PLACEMENT.

STATE OF ALASKA
49TH
Bruce Lowejoy
Bruce N. Lowejoy
No 7415EE
REGISTERED PROFESSIONAL ENGINEER

TEMPTEL, INC.
A SUBSIDIARY OF MID-STATE CONSULTANTS
1075 EAST 72ND AVENUE
ANCHORAGE, ALASKA 99518
(907)258-7667 FAX (907)258-0616

ALASKA FIBER STAR, LLC

BIRD CREEK
RR RELOCATE

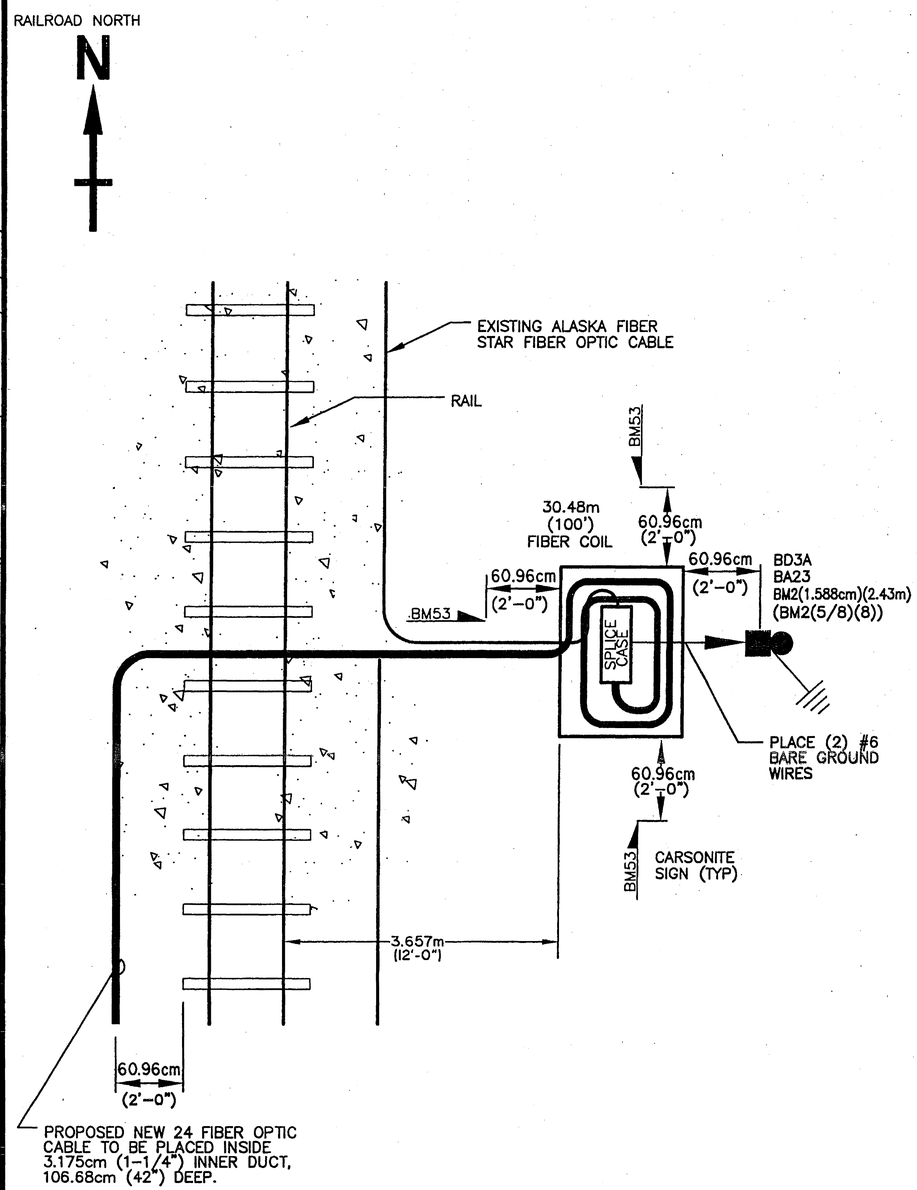
BIRD CREEK ALASKA

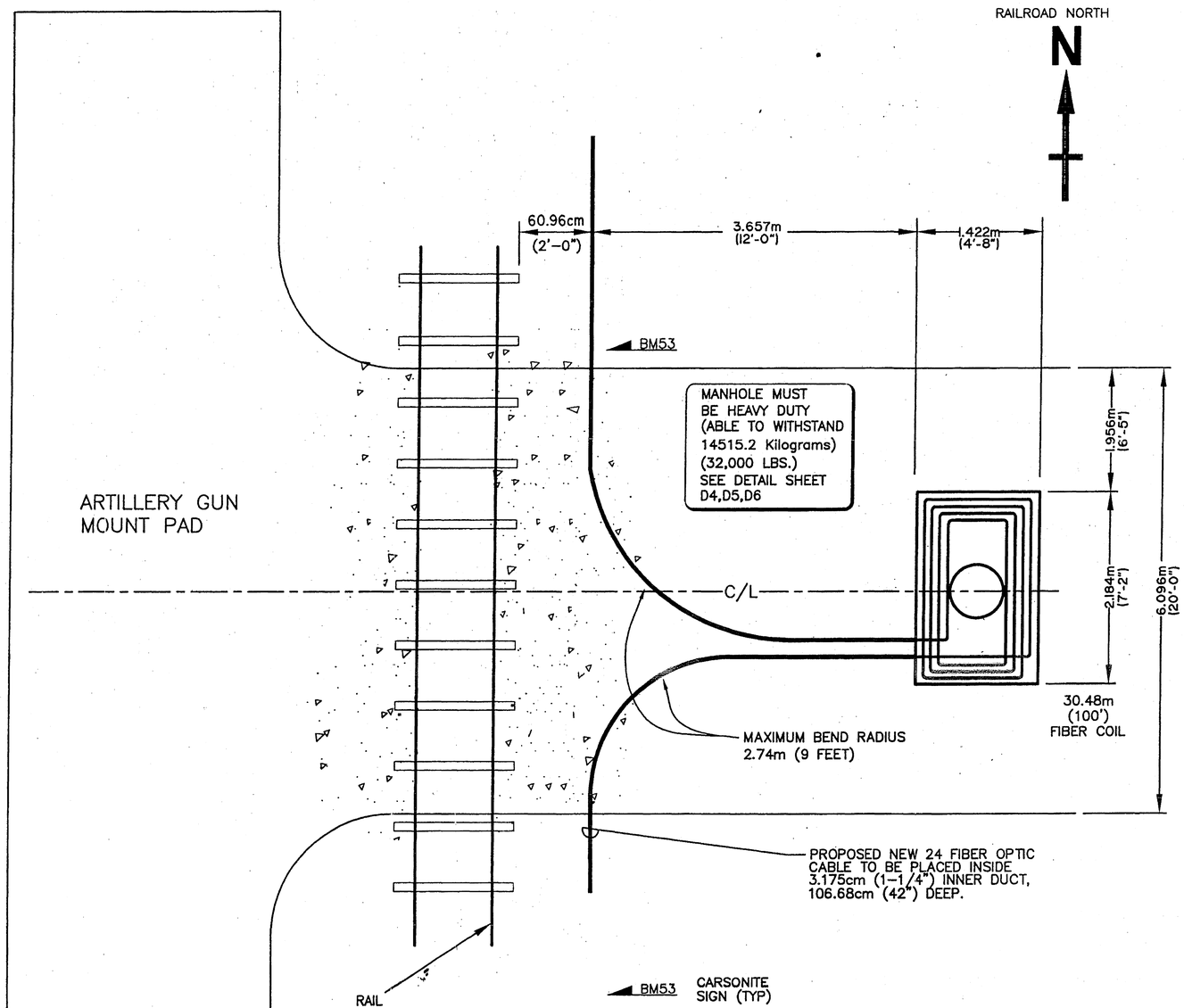
SCALE:	DATE:	DRWN BY:	ENGR:
N.T.S.	4/5/02	KGS	JG
REVISION:	SHT. 1 OF 1	DRG. NO:	BIRD

REV:	DATE:	DRN. ENG.	REVISIONS

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	T 3	T 23

DESIGNED BY		
CHECKED BY		
DRAFTED BY	CJ	1/29/02
SPECIFICATIONS	VIEW ALL	
STANDARDS	AUTOCAD-CAROLEE-MARC/MBDR	
COMPUTER DESIGNATION		





4878 HANDHOLE
STA. 73+93
STA. "R"3+380

91.44cm X 152.40cm (36"X60") HANDHOLE PLACEMENT DETAIL
STA 115+23
STA "R"5+111.1
SEE ASSEMBLY DETAIL SHEET D3
SEE PLACEMENT DETAIL SHEET D7

STATE OF ALASKA
49TH
Bruce Lovejoy
Bruce N. Lovejoy
No 7415EE
REGISTERED PROFESSIONAL ENGINEER

REV:	DATE:		REVISIONS

TEMPTEL, INC.
A SUBSIDIARY OF MID-STATE CONSULTANTS
1075 EAST 72ND AVENUE
ANCHORAGE, ALASKA 99518
(907)258-7667 FAX (907)258-0616

ALASKA FIBER STAR, LLC

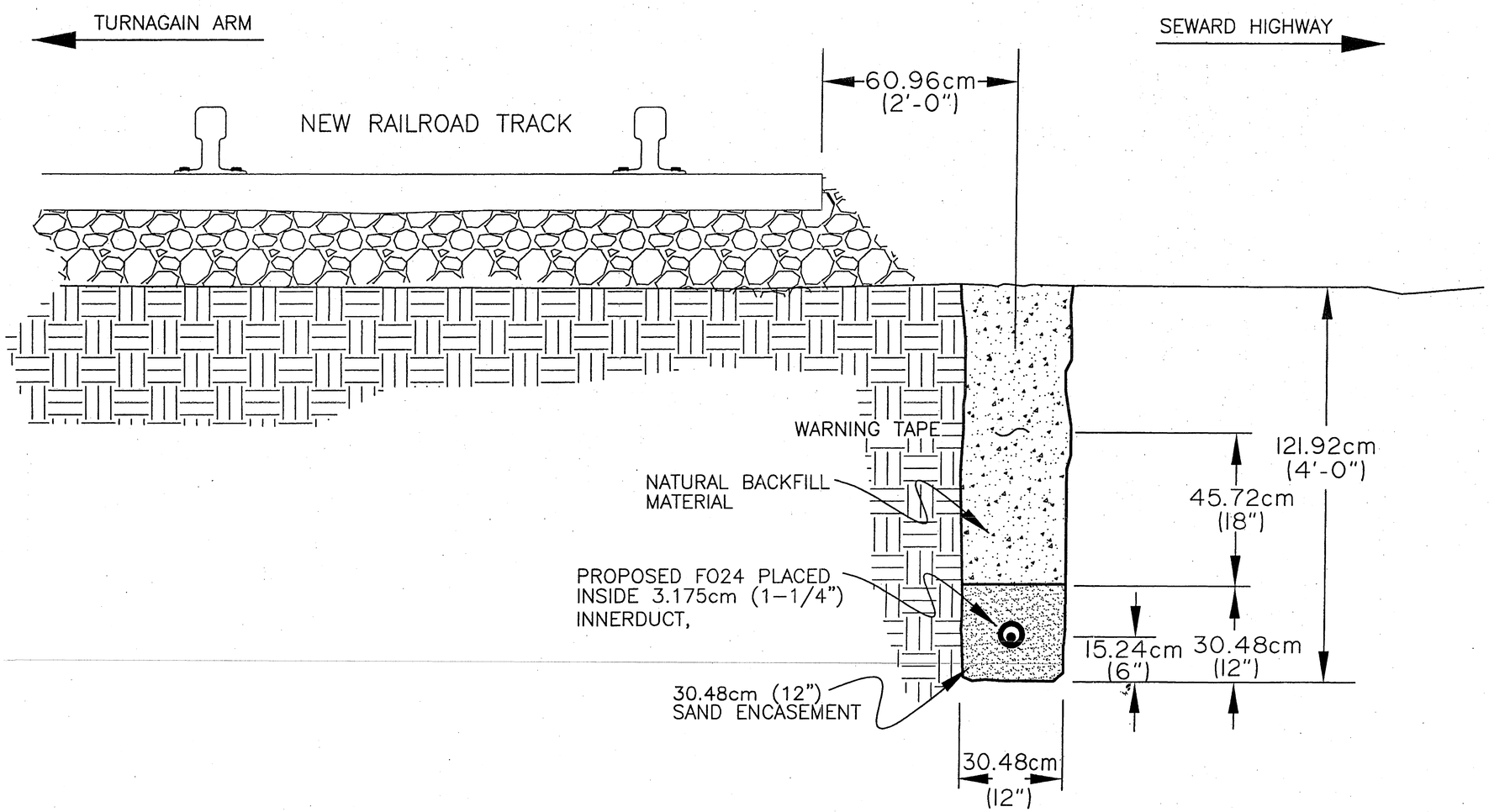
BIRD CREEK
RR RELOCATE

BIRD CREEK ALASKA

SCALE: N.T.S.	DATE: 4/5/02	DRWN BY: KGS	ENGR: JG
REVISION:	SHT. D1 OF 7	DRG. NO: BIRD CREEK	

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	T4	T23

TYPICAL FO CABLE PLACEMENT DETAIL



STATE OF ALASKA
49TH
Bruce N. Lovejoy
No. 7415EE
REGISTERED PROFESSIONAL ENGINEER

TEMPTEL, INC.
A SUBSIDIARY OF MID-STATE CONSULTANTS
1075 EAST 72ND AVENUE
ANCHORAGE, ALASKA 99518
(907)258-7667 FAX (907)258-0616

ALASKA FIBER STAR, LLC

BIRD CREEK
RR RELOCATE

BIRD CREEK ALASKA

SCALE:	DATE:	DRWN BY:	ENGR:
N.T.S.	4/5/02	KGS	JG
REVISION:	SHT. D2 OF 7	DRG. NO:	BIRD CREEK

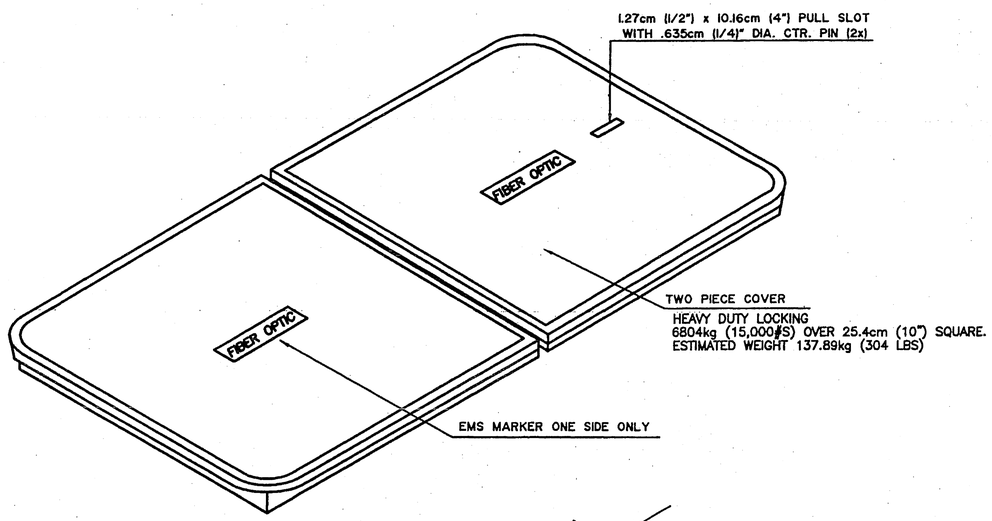
REV:	DATE:		REVISIONS

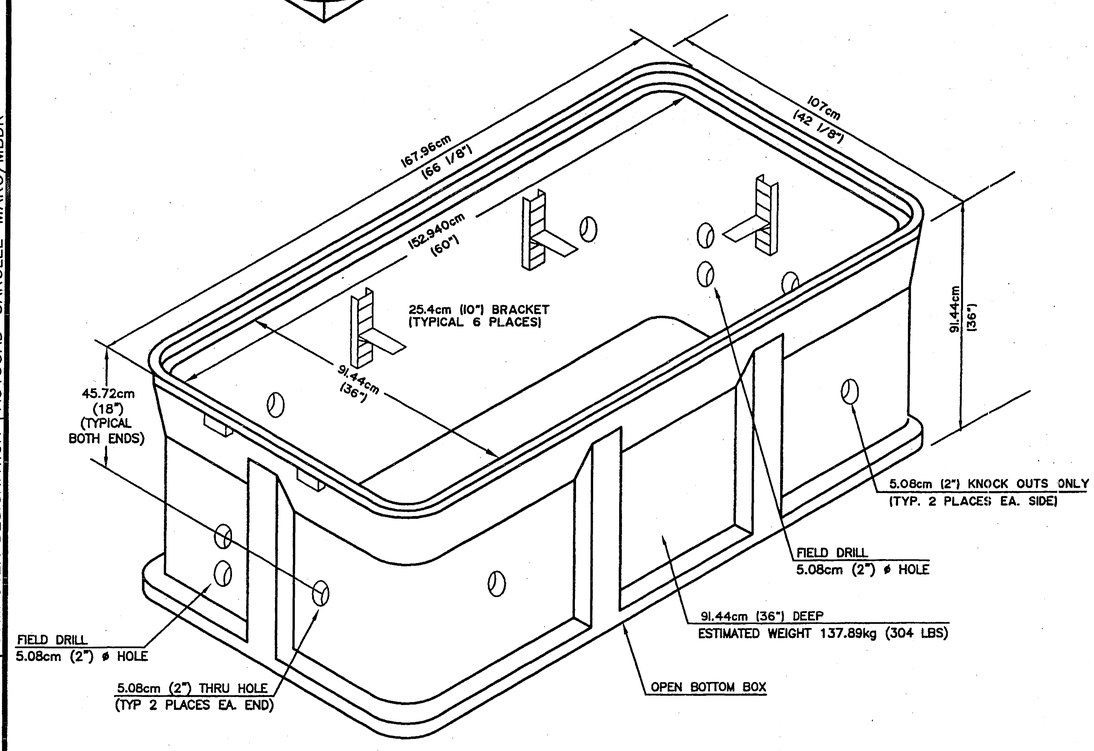
DESIGNED BY		
CHECKED BY		
DRAFTED BY	CJ	1/29/02
VIEW ALL		
AUTOCAD-CAROLEE-MARC/MBDR		

SPECIFICATIONS
STANDARDS
COMPUTER DESIGNATION

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	T5	T23

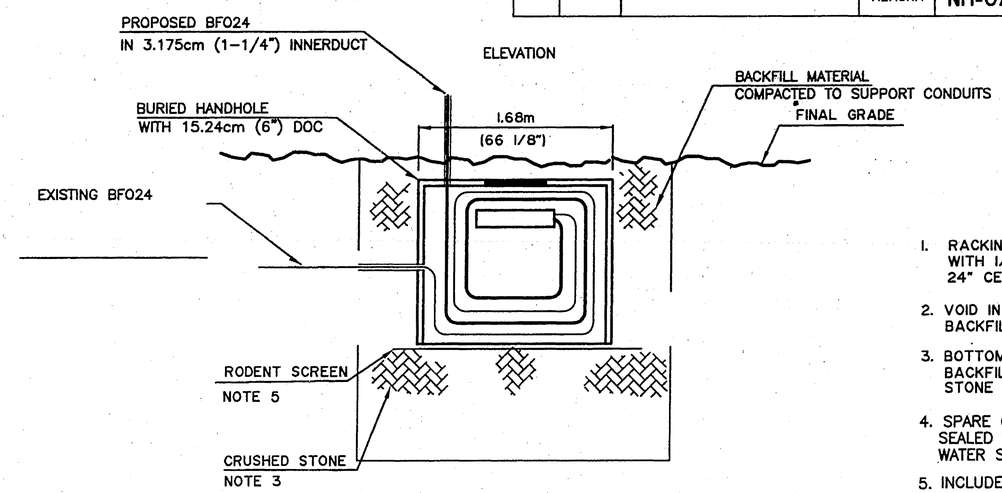
DESIGNED BY		
CHECKED BY		
DRAFTED BY	CJ	1/29/02
SPECIFICATIONS	VIEW ALL	
STANDARDS		
COMPUTER DESIGNATION	AUTOCAD-CAROLEE-MARC/MBDR	





152.40cm x 91.44cm x 91.44cm HANDHOLE ASSEMBLY DETAIL

(60" x 36" x 36") STA "R"5+111.1

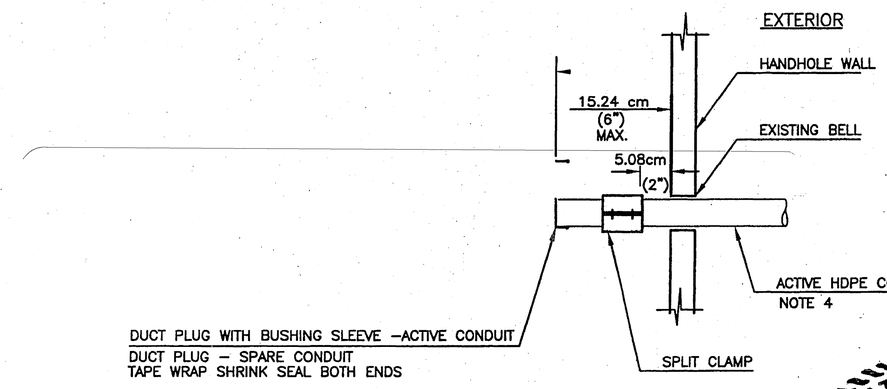


TYPICAL HANDHOLE AT BRIDGE OR SPLICE POINT

N.T.S.

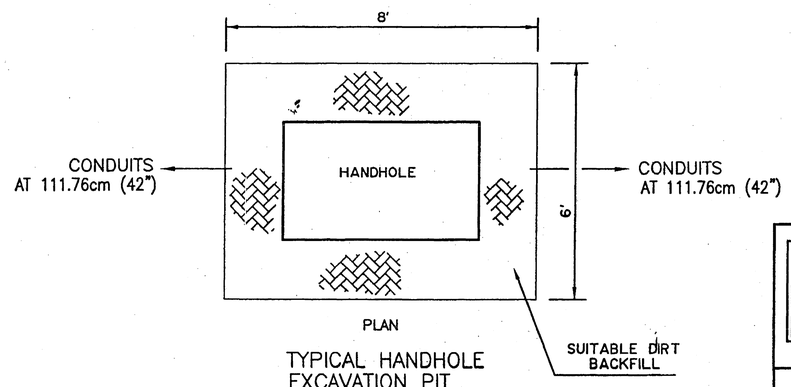
NOTES

1. RACKING 18" LONG (GALVANIZED) WITH 1/2"- 13NC S.S. INSERT ON 24" CENTERS (6-REQ'D)
2. VOID IN EXCAVATED AREAS TO BE BACKFILLED WITH SELECT MATERIAL
3. BOTTOM OF EXCAVATED PIT TO BE BACKFILLED WITH 12" OF CRUSHED STONE (3/4") GRADE
4. SPARE CONDUITS TO BE PLUGGED AND SEALED WITH DUCT PLUG. NO FREE WATER SHALL BE ALLOWED INTO CONDUIT.
5. INCLUDE RODENT SCREENS.



HANDHOLE WALL PENETRATION DETAIL

N.T.S.



TYPICAL HANDHOLE EXCAVATION PIT

N.T.S.

STATE OF ALASKA
49TH
Bruce Lovejoy
Bruce N. Lovejoy
No 7415EE
REGISTERED PROFESSIONAL ENGINEER

TEMPTEL, INC.
A SUBSIDIARY OF MID-STATE CONSULTANTS
1075 EAST 72ND AVENUE
ANCHORAGE, ALASKA 99518
(907)258-7667 FAX (907)258-0616

ALASKA FIBER STAR, LLC

BIRD CREEK
RR RELOCATE

BIRD CREEK ALASKA

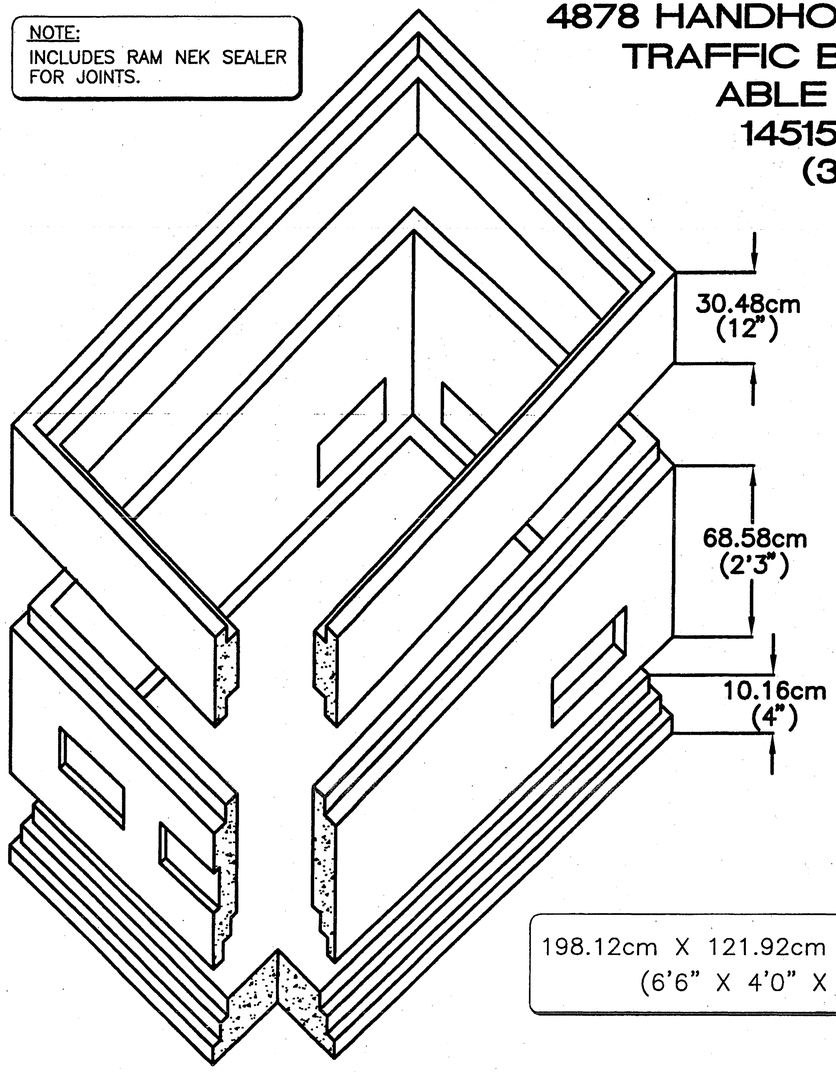
SCALE:	DATE:	DRWN BY:	ENGR:
N.T.S.	4/5/02	KGS	JG
REVISION:	SHT. D3 OF 7	DRG. NO:	BIRD CREEK

REV:	DATE:	REVISIONS

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-I(28)	2002	T 6	T 23

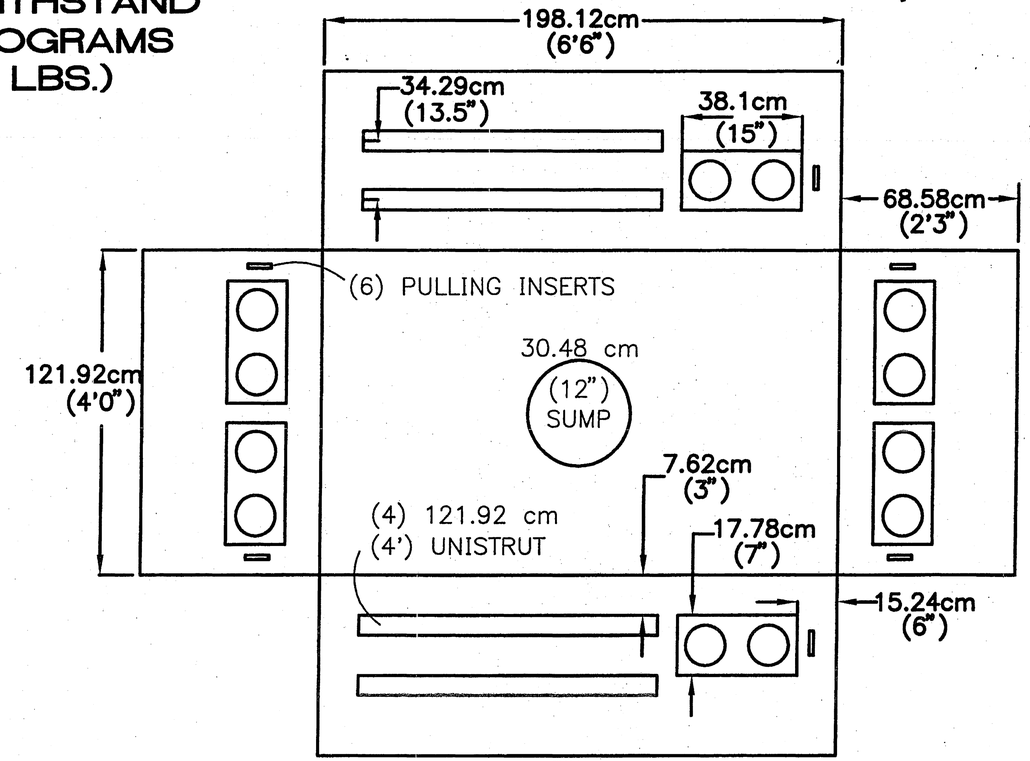
4878 HANDHOLE ASSEMBLY DETAILS
TRAFFIC BEARING HANDHOLE ABLE TO WITHSTAND 14515.2 KILOGRAMS (32,000 LBS.)

NOTE:
INCLUDES RAM NEK SEALER FOR JOINTS.

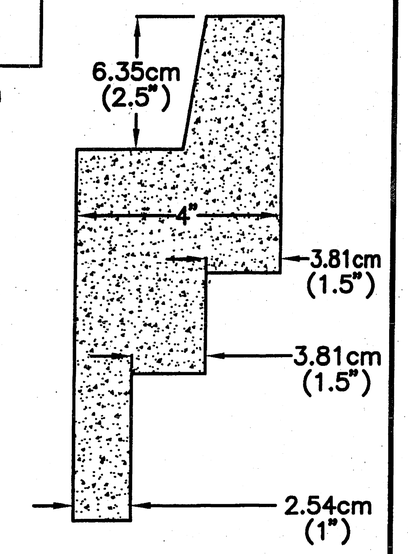


198.12cm X 121.92cm X 121.92cm VAULT
(6'6" X 4'0" X 4'0")

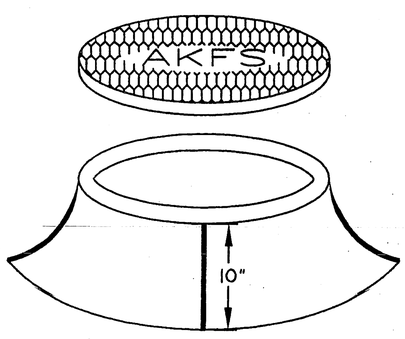
STA. 73+93
STA. "R"3+380



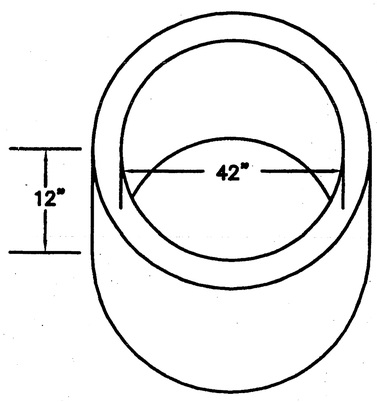
WALL LAYOUT



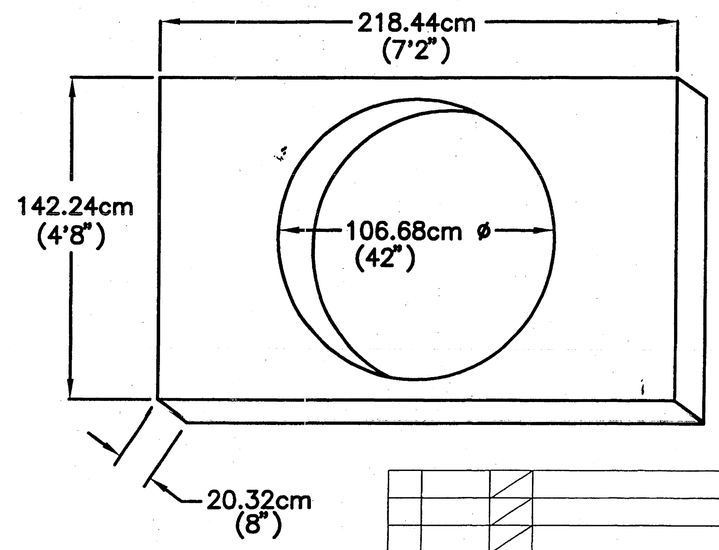
WALL SECTION



25.4cm 10" MANHOLE
CAST IRON RING AND COVER



30.48cm 12" GRADE RING



STATE OF ALASKA
49TH
Bruce N. Lovejoy
No 7415 EE
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY		
CHECKED BY		
DRAFTED BY	CJ	1/29/02
SPECIFICATIONS		
STANDARDS	VIEW ALL	
COMPUTER DESIGNATION	AUTOCAD-CAROLEE-MARC/MBDR	

TEMPTEL, INC.
A SUBSIDIARY OF MID-STATE CONSULTANTS
1075 EAST 72ND AVENUE
ANCHORAGE, ALASKA 99518
(907)258-7667 FAX (907)258-0616

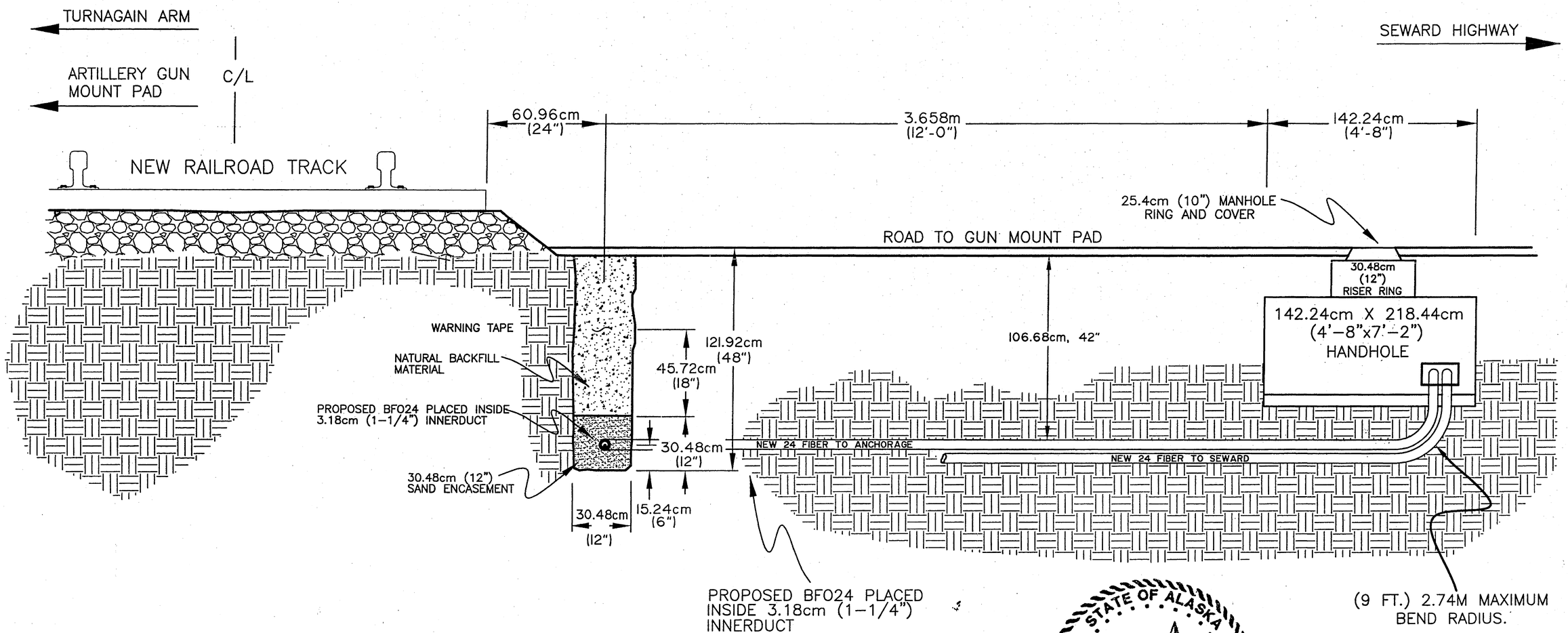
ALASKA FIBER STAR, LLC
BIRD CREEK
RR RELOCATE
BIRD CREEK ALASKA

SCALE: N.T.S.	DATE: 4/5/02	DRWN BY: KGS	ENGR: JG
REVISION:	SHT. D4 OF 7	DRG. NO: BIRD CREEK	

REV:	DATE:	REVISIONS

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	T 7	T 23

PLACEMENT DETAIL
LOOKING NORTH
RR CROSSING CONDUIT
STA. 73+93
STA. "R"3+380



STATE OF ALASKA
49TH
Bruce Lovejoy
Bruce N. Lovejoy
No 7415EE
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY		
CHECKED BY		
DRAFTED BY	CJ	1/29/02
VIEW ALL		
AUTOCAD-CAROLEE-MARC/MBDR		
SPECIFICATIONS		
STANDARDS		
COMPUTER DESIGNATION		

REV:	DATE:	REVISIONS

TEMPTEL, INC.
A SUBSIDIARY OF MID-STATE CONSULTANTS
1075 EAST 72ND AVENUE
ANCHORAGE, ALASKA 99518
(907)258-7667 FAX (907)258-0616

ALASKA FIBER STAR, LLC

BIRD CREEK
RR RELOCATE

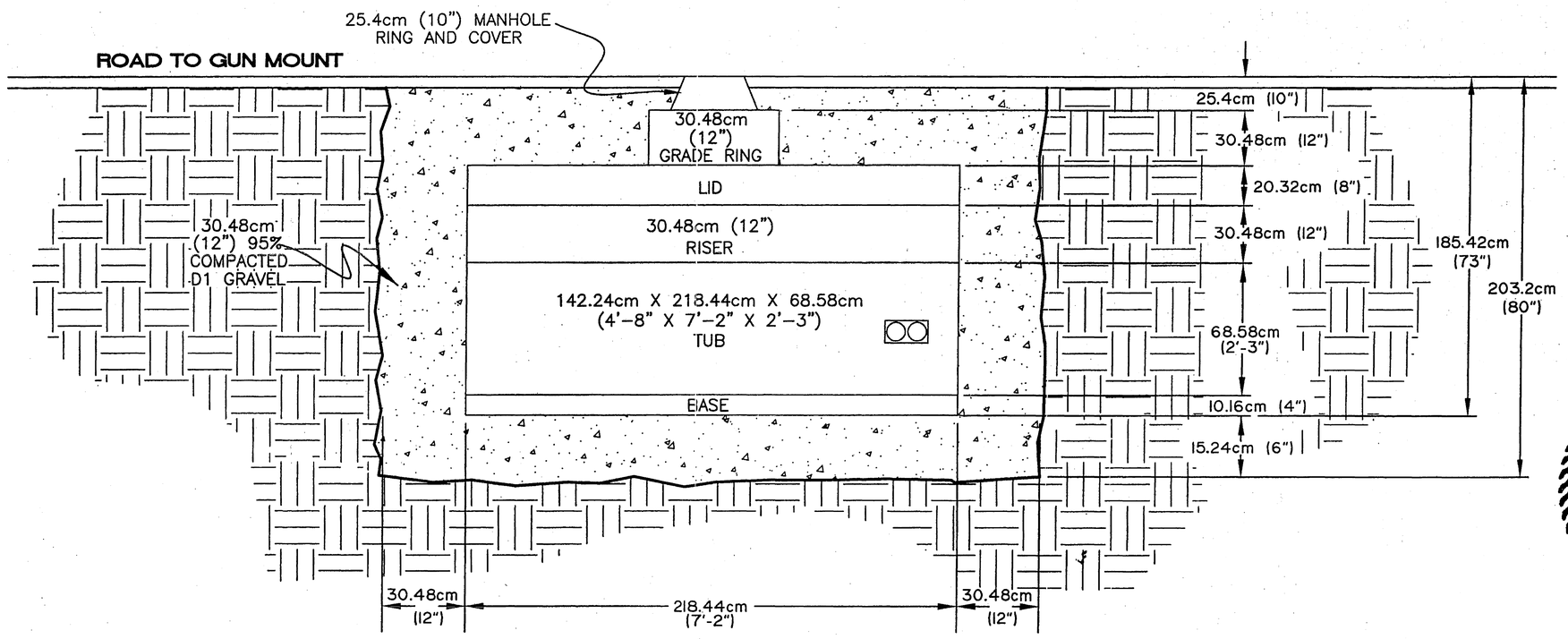
BIRD CREEK ALASKA

SCALE:	DATE:	DRWN BY:	ENGR:
N.T.S.	4/5/02	KGS	JG
REVISION:	SHT. D5 OF 7	DRG. NO:	BIRD CREEK

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	T 8	T23

4878 VAULT PLACEMENT DETAIL
STA 73+95
STA "R" 3+380

NOTE:
MODIFICATIONS TO HANDHOLE FOR PLACEMENT REQUIREMENTS SHALL BE COMPLETED IN FIELD. DRILL AT REQUIRED LOCATIONS WITH THE APPROVAL OF THE AFS INSPECTOR.
SEE ASSEMBLY DETAIL SHT D4.



STATE OF ALASKA
49TH
Bruce N. Lovejoy
No 7415EE
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY			
CHECKED BY			
DRAFTED BY	CJ	1/29/02	
SPECIFICATIONS			
STANDARDS	VIEW ALL		
COMPUTER DESIGNATION	AUTOCAD-CAROLEE-MARC/MBDR		

REV:	DATE:	REVISIONS

TEMPTEL, INC.
A SUBSIDIARY OF MID-STATE CONSULTANTS
1075 EAST 72ND AVENUE
ANCHORAGE, ALASKA 99518
(907)258-7667 FAX (907)258-0616

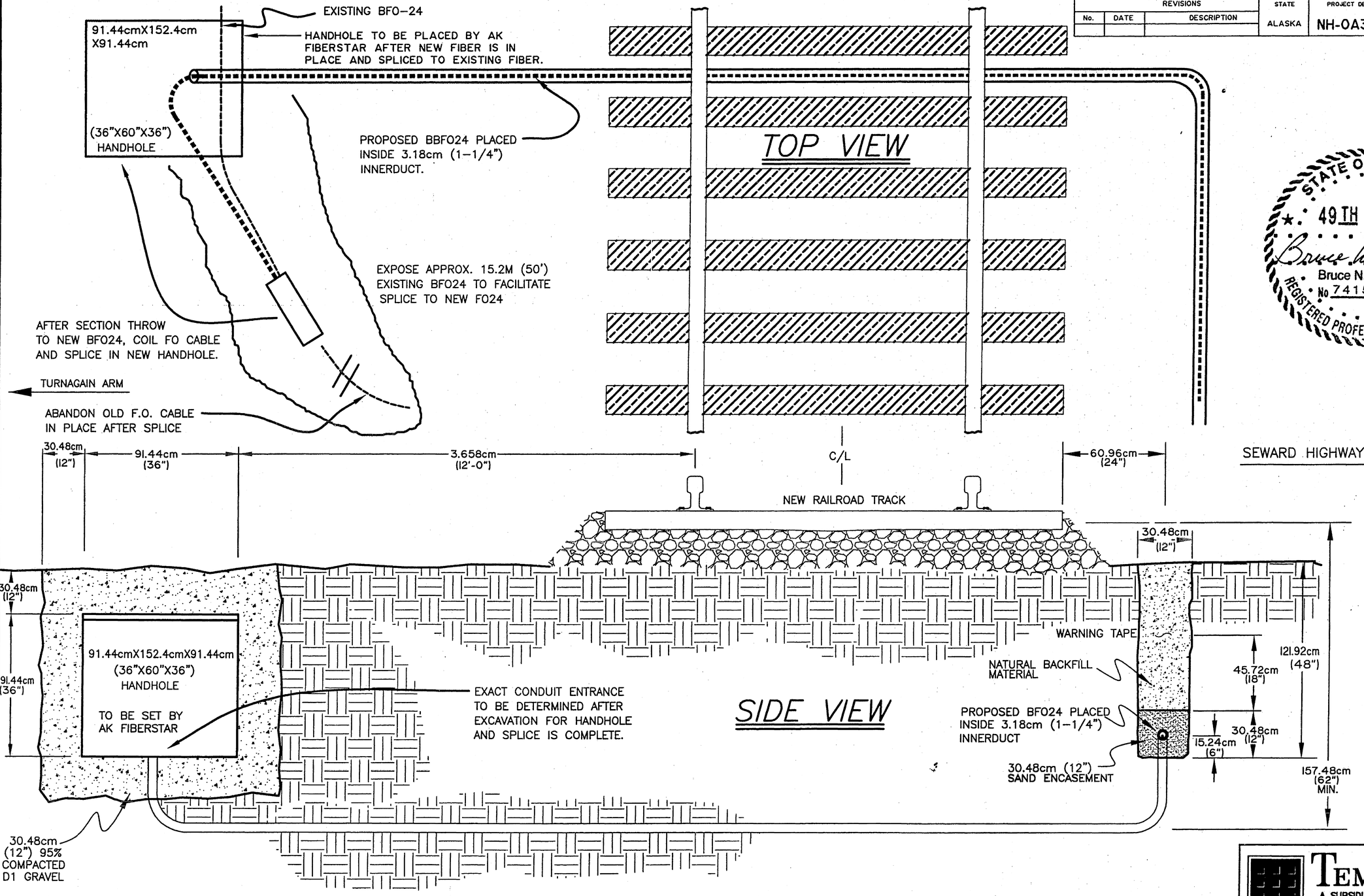
ALASKA FIBER STAR, LLC

BIRD CREEK
RR RELOCATE

BIRD CREEK ALASKA

SCALE:	DATE:	DRWN BY:	ENGR:
N.T.S.	4/5/02	KGS	JG
REVISION:	SHT. D6 OF 7	DRG. NO:	BIRD CREEK

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	T9	T23



STATE OF ALASKA
49TH
Bruce Lovejoy
Bruce N. Lovejoy
No 7415EE
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY
CHECKED BY
DRAFTED BY CJ 1/29/02
VIEW ALL
AUTOCAD-CAROLEE-MARC/MBDR
SPECIFICATIONS
STANDARDS
COMPUTER DESIGNATION

LOOKING NORTH
RR CROSSING CONDUIT
PLACEMENT DETAIL
STA. 115+23
STA. "R"5+111.1

REV:	DATE:		REVISIONS

TEMPTEL, INC.
A SUBSIDIARY OF MID-STATE CONSULTANTS
1075 EAST 72ND AVENUE
ANCHORAGE, ALASKA 99518
(907)258-7867 FAX (907)258-0616

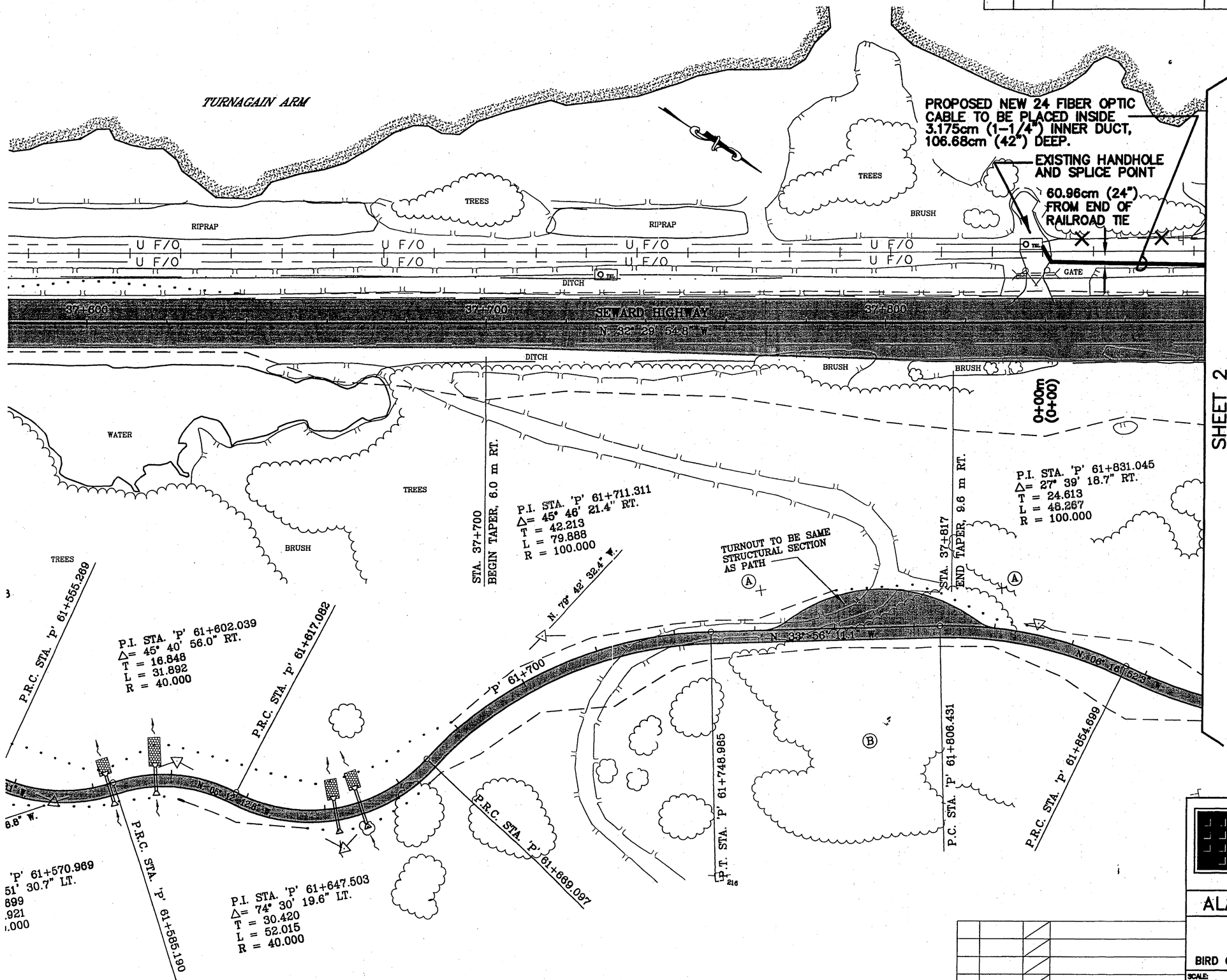
ALASKA FIBER STAR, LLC

BIRD CREEK
RR RELOCATE

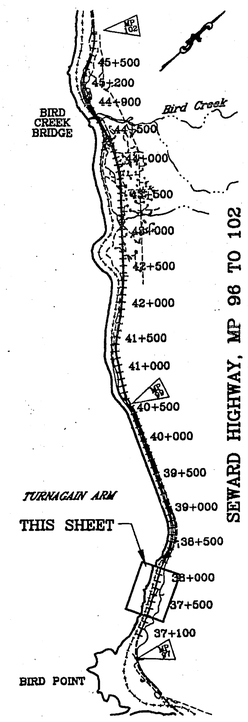
BIRD CREEK ALASKA

SCALE:	DATE:	DRWN BY:	ENGR:
N.T.S.	4/5/02	KGS	JG
REVISION:	SHT. 07 OF 7	DRG. NO:	BIRD CREEK

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	T10	T23



SHEET 2



STATE OF ALASKA
49TH
Bruce N. Lovejoy
Bruce N. Lovejoy
No 7415EE
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY	
CHECKED BY	
DRAFTED BY	CJ 1/29/02
SPECIFICATIONS	VIEW ALL
STANDARDS	
COMPUTER DESIGNATION	AUTOCAD-CAROLEE-MARC/MBDR

REV:	DATE:	REVISIONS

TEMPTEL, INC.
A SUBSIDIARY OF MID-STATE CONSULTANTS
1075 EAST 72ND AVENUE
ANCHORAGE, ALASKA 99518
(907)258-7667 FAX (907)258-0616

ALASKA FIBER STAR, LLC

BIRD CREEK
RR RELOCATE

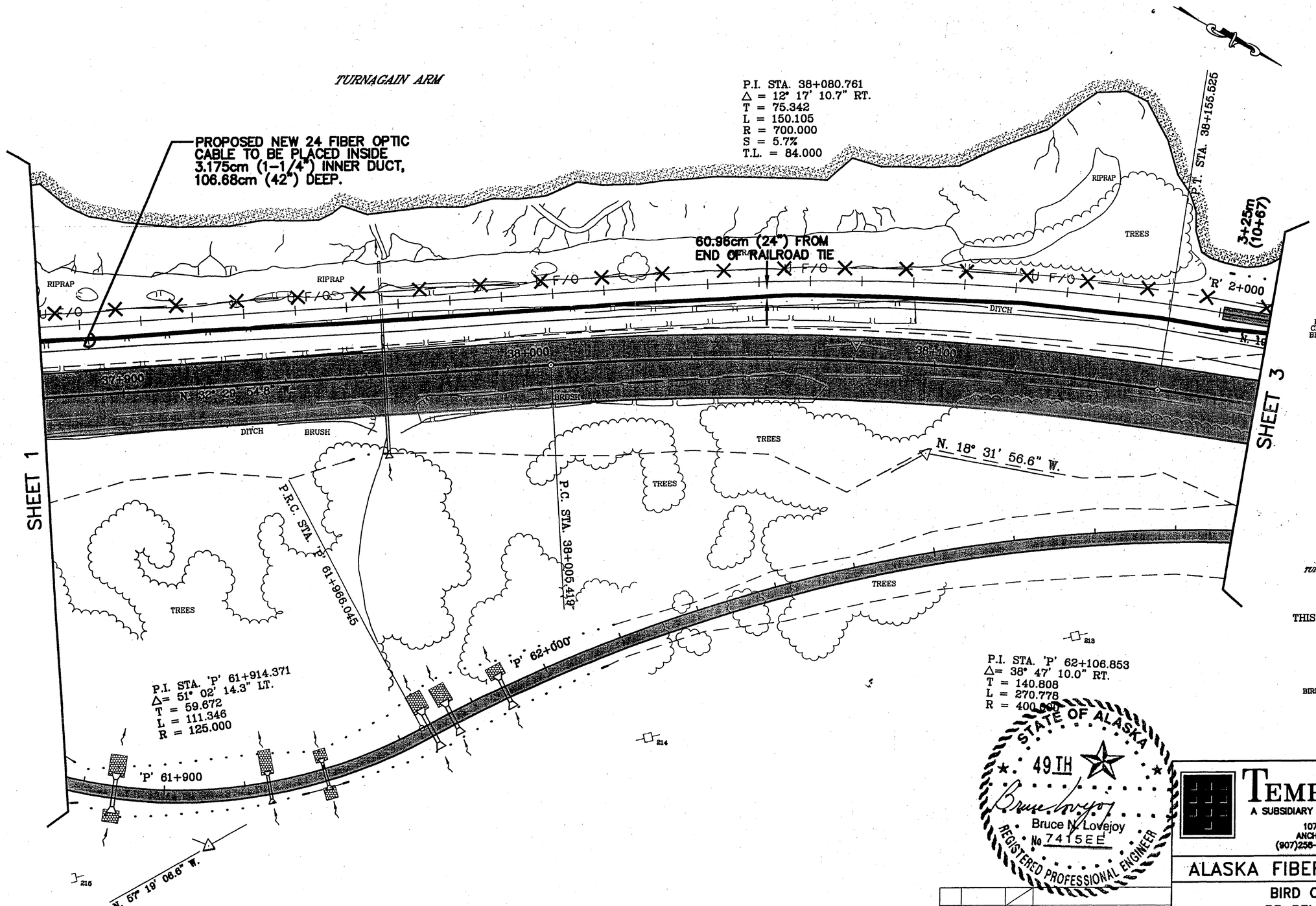
BIRD CREEK ALASKA

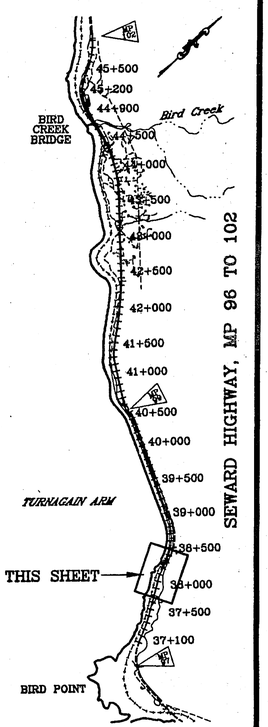
SCALE:	DATE:	DRWN BY:	ENGR:
N.T.S.	4/5/02	KGS	JG
REVISION:	SHT. 1 OF 13	DRG. NO:	BIRD CREEK

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-I(28)	2002	T 11	T23

DESIGNED BY		
CHECKED BY		
DRAFTED BY	CJ	1/29/02

SPECIFICATIONS	
STANDARDS	VIEW ALL
COMPUTER DESIGNATION	AUTOCAD–CAROLEE–MARC/MBDR





STATE OF ALASKA
49TH
Bruce N. Lovejoy
Bruce N. Lovejoy
No 7415EE
REGISTERED PROFESSIONAL ENGINEER

REV:	DATE:		REVISIONS

TEMPTEL, INC.
A SUBSIDIARY OF MID–STATE CONSULTANTS
1075 EAST 72ND AVENUE
ANCHORAGE, ALASKA 99518
(907)258–7667 FAX (907)258–0616

ALASKA FIBER STAR, LLC

BIRD CREEK
RR RELOCATE

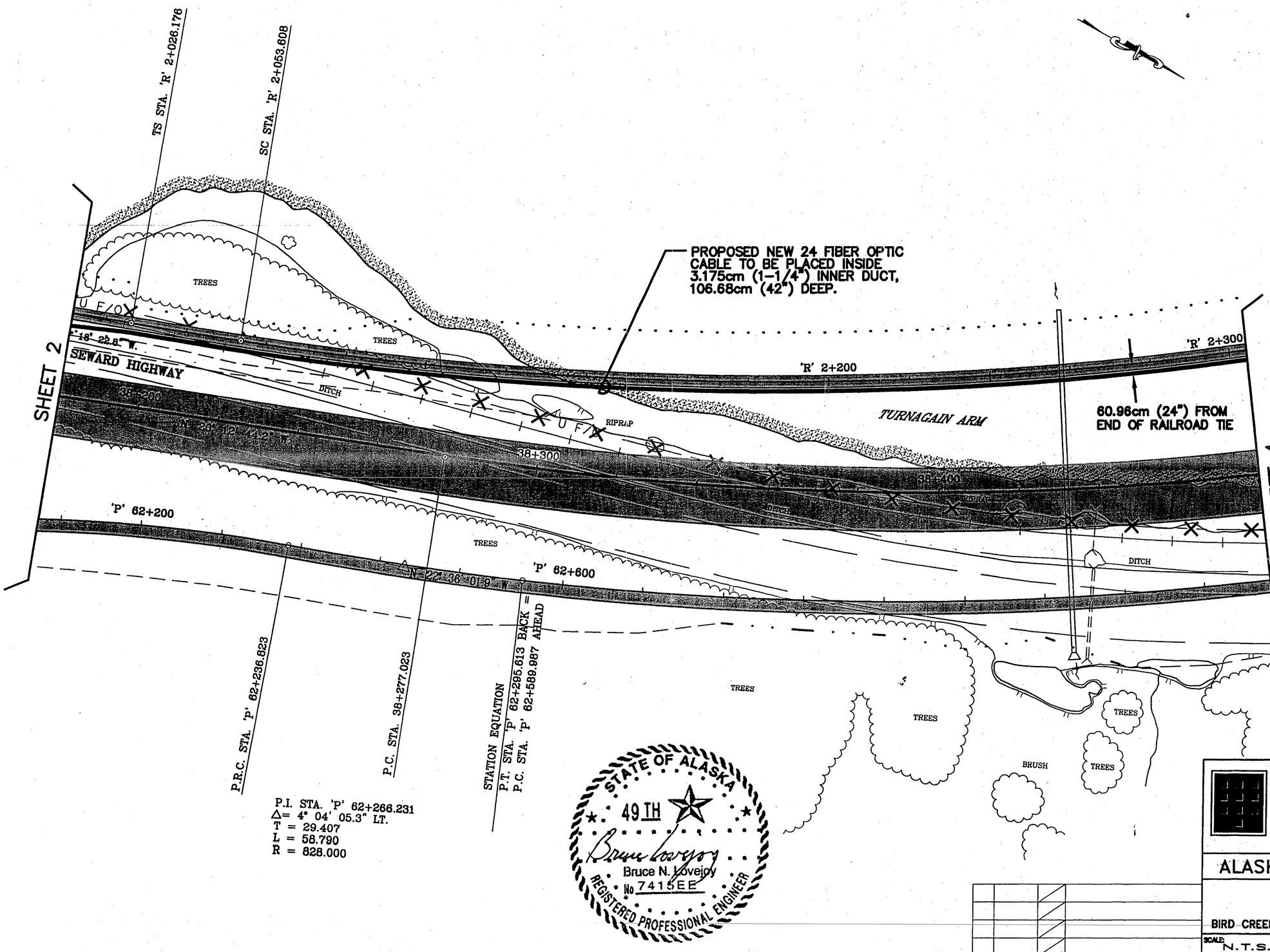
BIRD CREEK ALASKA

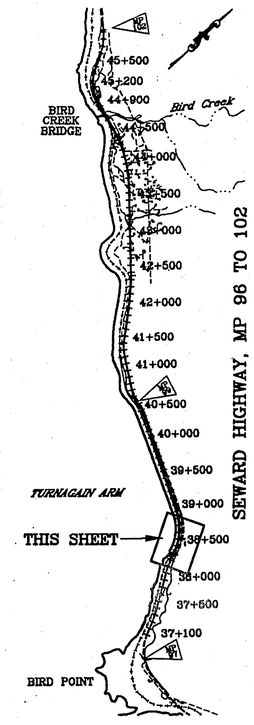
SCALE: N.T.S.	DATE: 4/5/02	DRWN BY: KGS	ENGR: JG
REVISION:	SHT. 2 OF 13	DRG. NO: BIRD CREEK	

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	T12	T23

DESIGNED BY		
CHECKED BY		
DRAFTED BY	CJ	1/29/02

SPECIFICATIONS	
STANDARDS	VIEW ALL
COMPUTER DESIGNATION	AUTOCAD-CAROLEE-MARC/MBDR





REV:	DATE:		REVISIONS

TEMPTEL, INC.
A SUBSIDIARY OF MID-STATE CONSULTANTS
1075 EAST 72ND AVENUE
ANCHORAGE, ALASKA 99515
(907)258-7667 FAX (907)258-0616

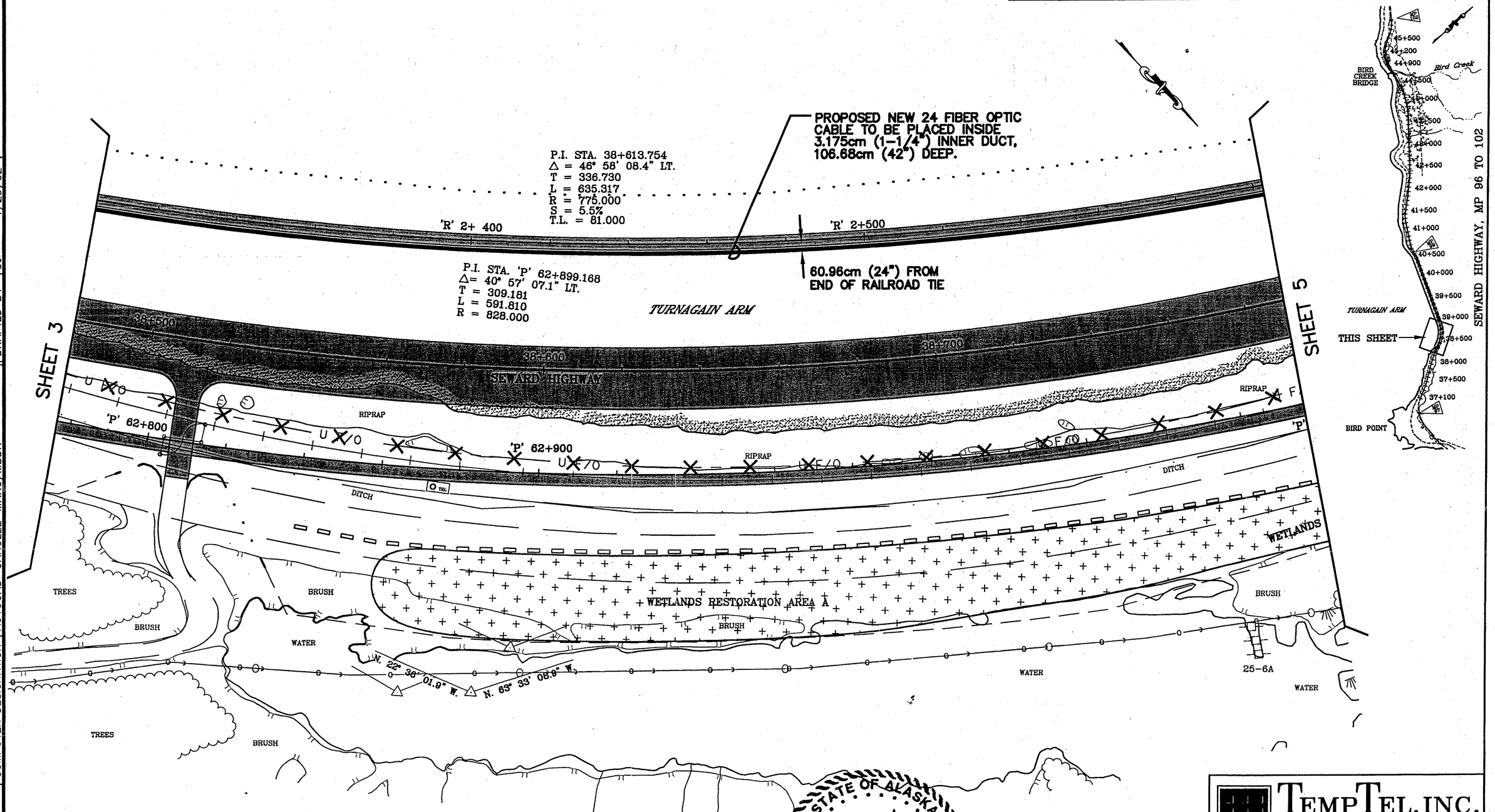
ALASKA FIBER STAR, LLC

BIRD CREEK
RR RELOCATE

BIRD CREEK ALASKA

SCALE: N.T.S.	DATE: 4/5/02	DRWN BY: KGS	ENGR: JG
REVISION:	SHT. 3 OF 13	DRG. NO: BIRD CREEK	

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	T13	T23



DESIGNED BY		
CHECKED BY		
DRAFTED BY	CJ	1/29/02

SPECIFICATIONS
STANDARDS
COMPUTER DESIGNATION — VIEW ALL — AUTOCAD-CAROLEE-MARC/MBDR

STATE OF ALASKA
49TH
Bruce N. Lovejoy
No 7415EE
REGISTERED PROFESSIONAL ENGINEER

REV:	DATE:		REVISIONS

TEMPTEL, INC.
A SUBSIDIARY OF MID-STATE CONSULTANTS
1075 EAST 72ND AVENUE
ANCHORAGE, ALASKA 99518
(907)258-7667 FAX (907)258-0616

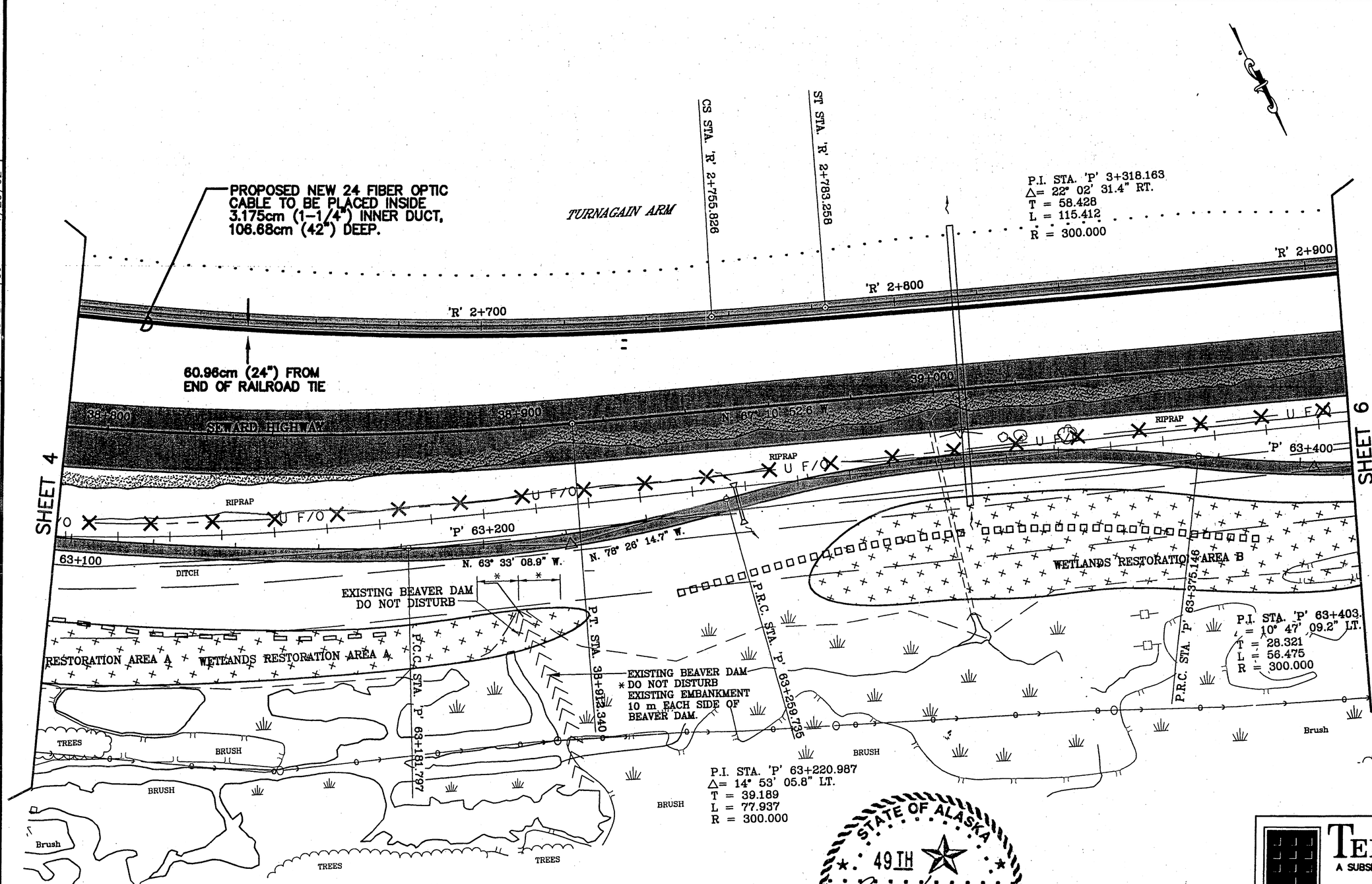
ALASKA FIBER STAR, LLC

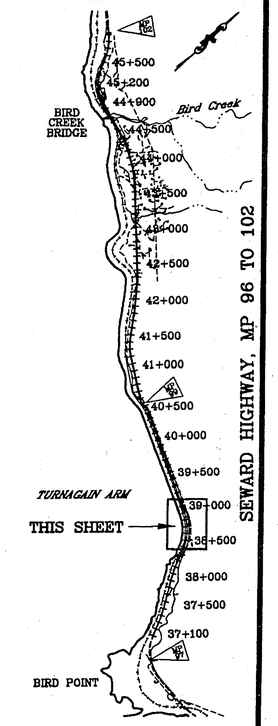
BIRD CREEK
RR RELOCATE

BIRD CREEK — ALASKA

SCALE: N.T.S.	DATE: 4/5/02	DRWN BY: KGS	ENGR: JG
REVISION:	SHT. 4 OF 13	DRG. NO: BIRD CREEK	

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	T14	T23





DESIGNED BY		
CHECKED BY		
DRAFTED BY	CJ	1/29/02
VIEW ALL		
AUTOCAD-CAROLEE-MARC/MBDR		
SPECIFICATIONS		
STANDARDS		
COMPUTER DESIGNATION		

STATE OF ALASKA
49TH
Bruce N. Lovejoy
No. 7415EE
REGISTERED PROFESSIONAL ENGINEER

REV:	DATE:	REVISIONS

TEMPTEL, INC.
A SUBSIDIARY OF MID-STATE CONSULTANTS
1075 EAST 72ND AVENUE
ANCHORAGE, ALASKA 99518
(907)258-7667 FAX (907)258-0616

ALASKA FIBER STAR, LLC

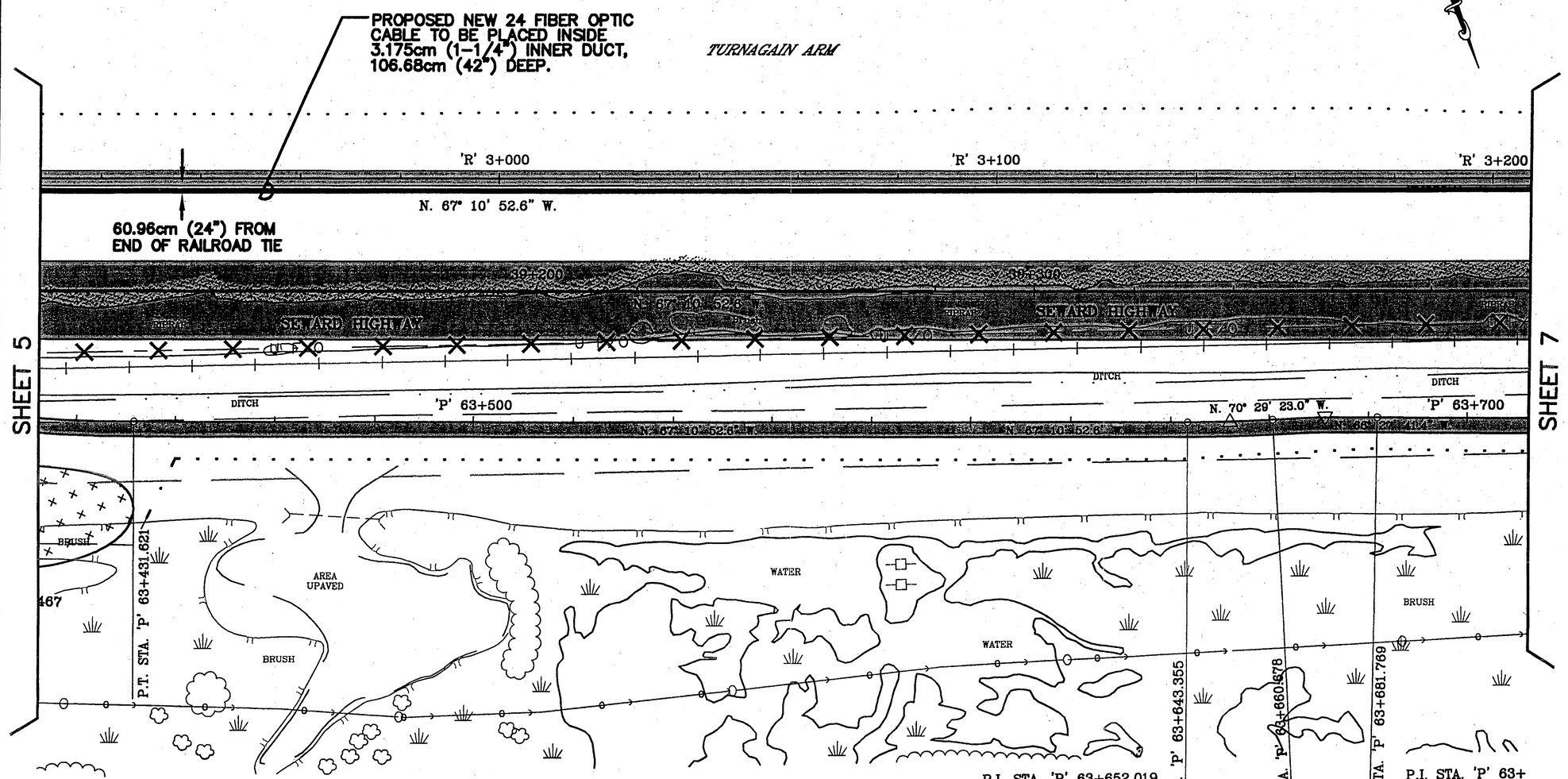
BIRD CREEK
RR RELOCATE

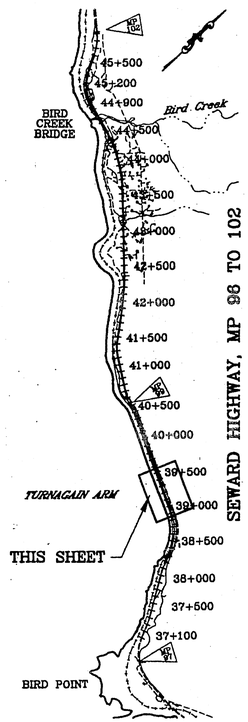
BIRD CREEK ALASKA

SCALE:	DATE:	DRWN BY:	ENGR:
N.T.S.	4/5/02	KGS	JG
REVISION:	SHT. 5 OF 13	DRG. NO:	BIRD CREEK

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	T15	T23

DESIGNED BY		
CHECKED BY		
DRAFTED BY	CJ	1/29/02
VIEW ALL		
AUTOCAD-CAROLEE-MARC/MBDR		
SPECIFICATIONS		
STANDARDS		
COMPUTER DESIGNATION		





STATE OF ALASKA
49TH
Bruce N. Lovejoy
Bruce N. Lovejoy
No 7415EE
REGISTERED PROFESSIONAL ENGINEER

REV:	DATE:		REVISIONS

TEMPTEL, INC.
A SUBSIDIARY OF MID-STATE CONSULTANTS
1075 EAST 72ND AVENUE
ANCHORAGE, ALASKA 99518
(907)258-7667 FAX (907)258-0616

ALASKA FIBER STAR, LLC

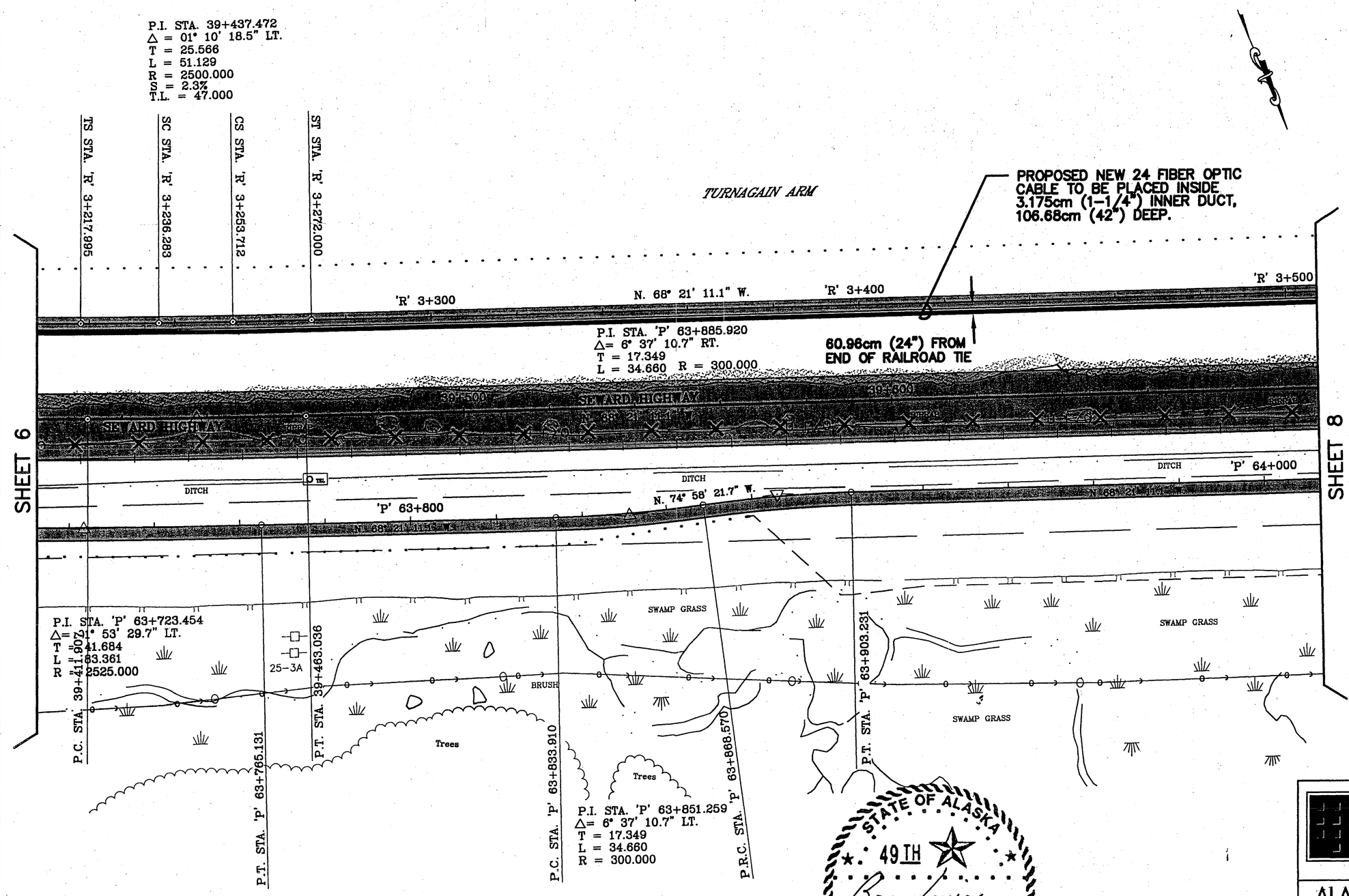
BIRD CREEK
RR RELOCATE

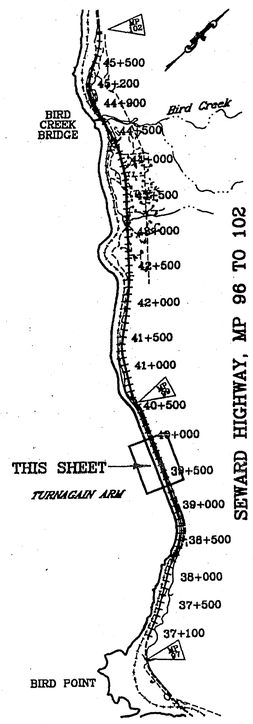
BIRD CREEK ALASKA

SCALE: N.T.S.	DATE: 4/5/02	DRWN BY: KGS	ENGR: JG
REVISION:	SHT. 6 OF 13	DRG. NO:	BIRD CREEK

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION		NH 0A3-1(28)	2002	T16	T23

DESIGNED BY		
CHECKED BY		
DRAFTED BY	CJ	1/29/02
SPECIFICATIONS		
STANDARDS		
COMPUTER DESIGNATION	VIEW ALL	AUTOCAD-CAROLEE-MARC/MBDR





STATE OF ALASKA
49TH
Bruce N. Lovejoy
Bruce N. Lovejoy
No 7415EE
REGISTERED PROFESSIONAL ENGINEER

REV:	DATE:		REVISIONS

TEMPTEL, INC.
A SUBSIDIARY OF MID-STATE CONSULTANTS
1075 EAST 72ND AVENUE
ANCHORAGE, ALASKA 99518
(907)258-7667 FAX (907)258-0616

ALASKA FIBER STAR, LLC

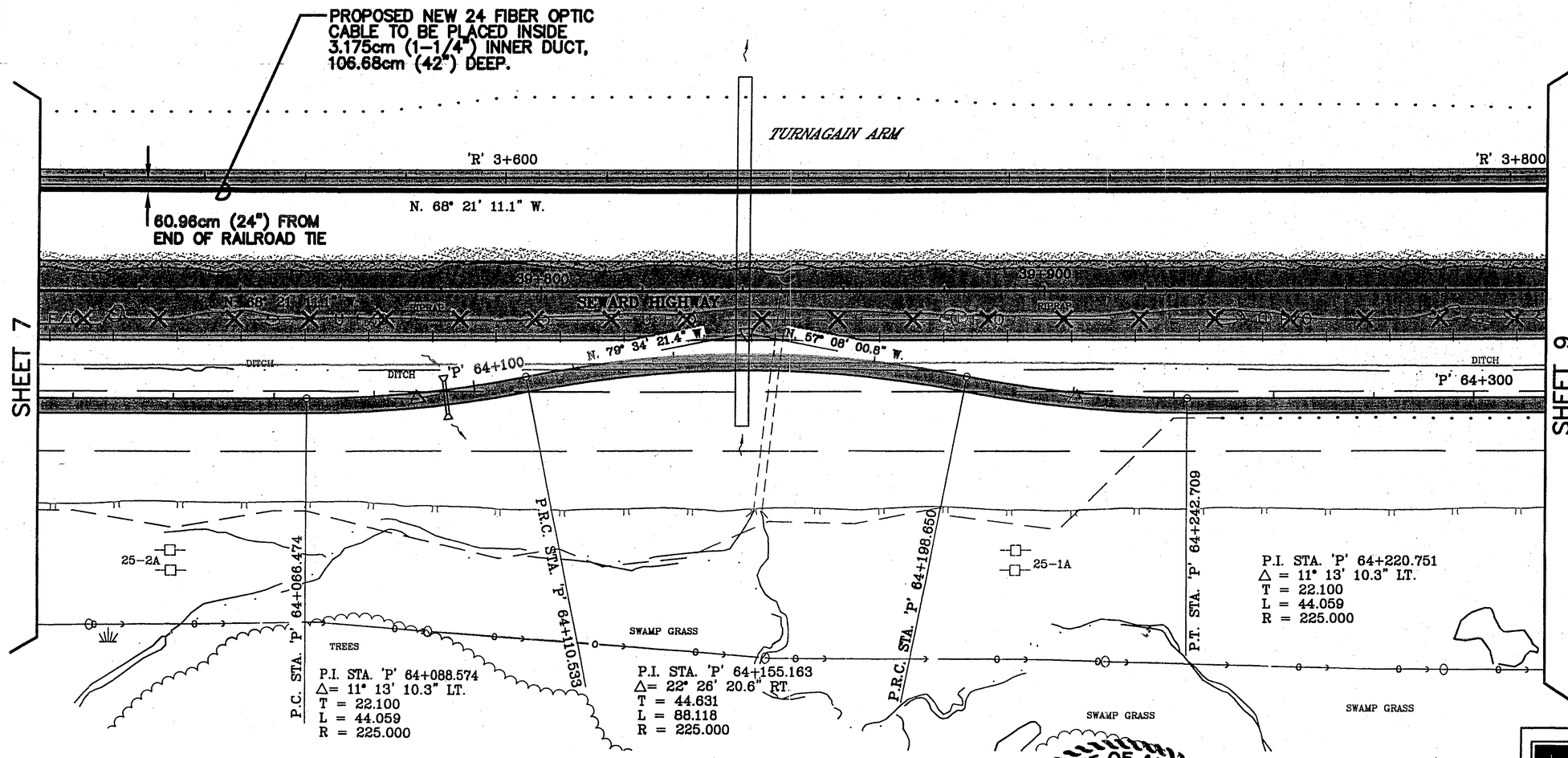
BIRD CREEK
RR RELOCATE

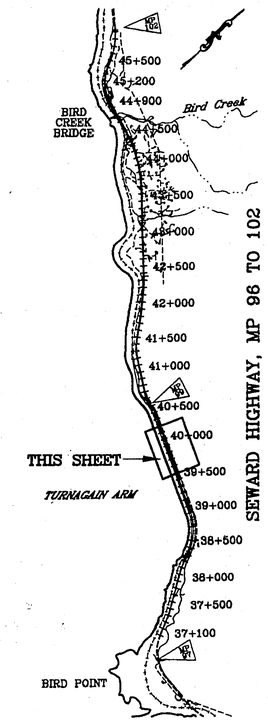
BIRD CREEK ALASKA

SCALE:	DATE:	DRWN BY:	ENGR:
N.T.S.	4/5/02	KGS	JG
REVISION:	SHT. 7 OF 13	DRG. NO:	BIRD CREEK

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	T 17	T 23

DESIGNED BY		
CHECKED BY		
DRAFTED BY	CJ	1/29/02
SPECIFICATIONS		
STANDARDS	VIEW ALL	
COMPUTER DESIGNATION	AUTOCAD-CAROLEE-MARC/MBDR	





STATE OF ALASKA
49TH
Bruce N. Lovejoy
No 7415EE
REGISTERED PROFESSIONAL ENGINEER

REV:	DATE:	REVISIONS

TEMPTEL, INC.
A SUBSIDIARY OF MID-STATE CONSULTANTS
1075 EAST 72ND AVENUE
ANCHORAGE, ALASKA 99518
(907)258-7667 FAX (907)258-0616

ALASKA FIBER STAR, LLC

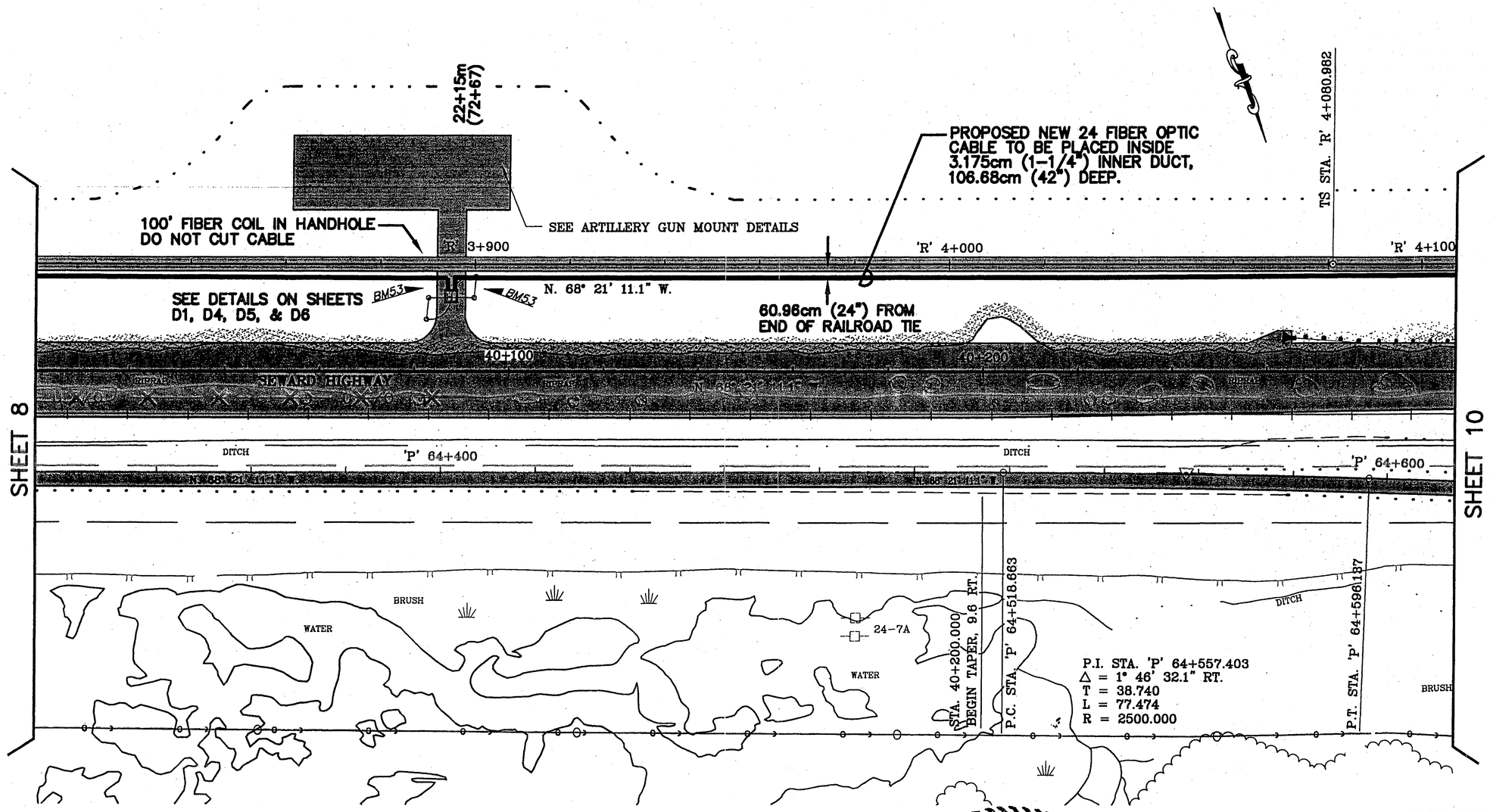
BIRD CREEK
RR RELOCATE

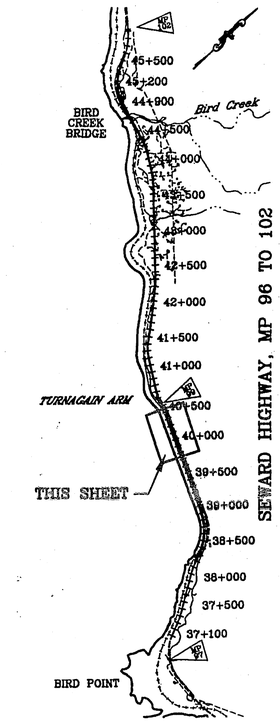
BIRD CREEK — ALASKA

SCALE:	DATE:	DRWN BY:	ENGR:
N.T.S.	4/5/02	KGS	JG
REVISION:	SHT. 8 OF 13	DRG. NO:	BIRD CREEK

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	T18	T23

DESIGNED BY		
CHECKED BY		
DRAFTED BY	CJ	1/29/02
SPECIFICATIONS	VIEW ALL	
STANDARDS		
COMPUTER DESIGNATION	AUTOCAD-CAROLEE-MARC/MBDR	





STATE OF ALASKA
49TH
Bruce N. Lovejoy
No 7415EE
REGISTERED PROFESSIONAL ENGINEER

REV:	DATE:		REVISIONS

TEMPTEL, INC.
A SUBSIDIARY OF MID-STATE CONSULTANTS
1075 EAST 72ND AVENUE
ANCHORAGE, ALASKA 99518
(907)258-7667 FAX (907)258-0616

ALASKA FIBER STAR, LLC

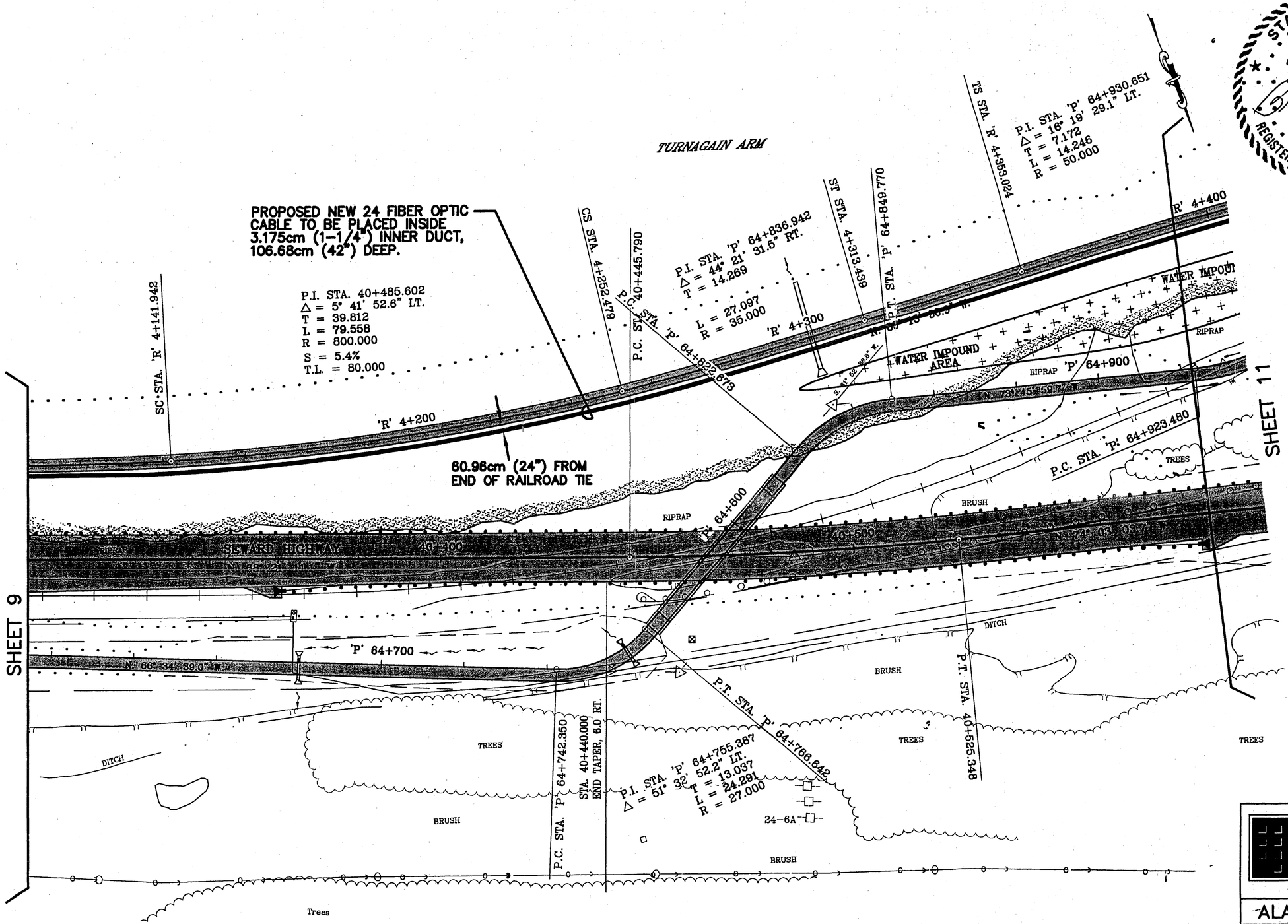
BIRD CREEK
RR RELOCATE

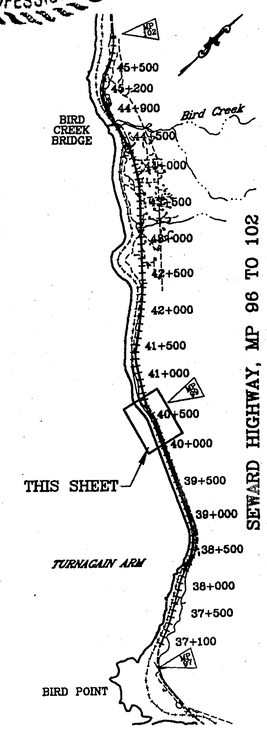
BIRD CREEK ALASKA

SCALE:	DATE:	DRWN BY:	ENGR:
N.T.S.	4/5/02	KGS	JG
REVISION:	SHT. 9 OF 13	DRG. NO:	BIRD CREEK

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	T19	T23

STATE OF ALASKA
49TH
Bruce N. Lovejoy
No 7416EE
REGISTERED PROFESSIONAL ENGINEER





DESIGNED BY		
CHECKED BY		
DRAFTED BY	CJ	1/29/02
SPECIFICATIONS	VIEW ALL	
STANDARDS		
COMPUTER DESIGNATION	AUTOCAD-CAROLEE-MARC/MBDR	

REV:	DATE:	REVISIONS

TEMPTEL, INC.
A SUBSIDIARY OF MID-STATE CONSULTANTS
1075 EAST 72ND AVENUE
ANCHORAGE, ALASKA 99518
(907)258-7667 FAX (907)258-0616

ALASKA FIBER STAR, LLC

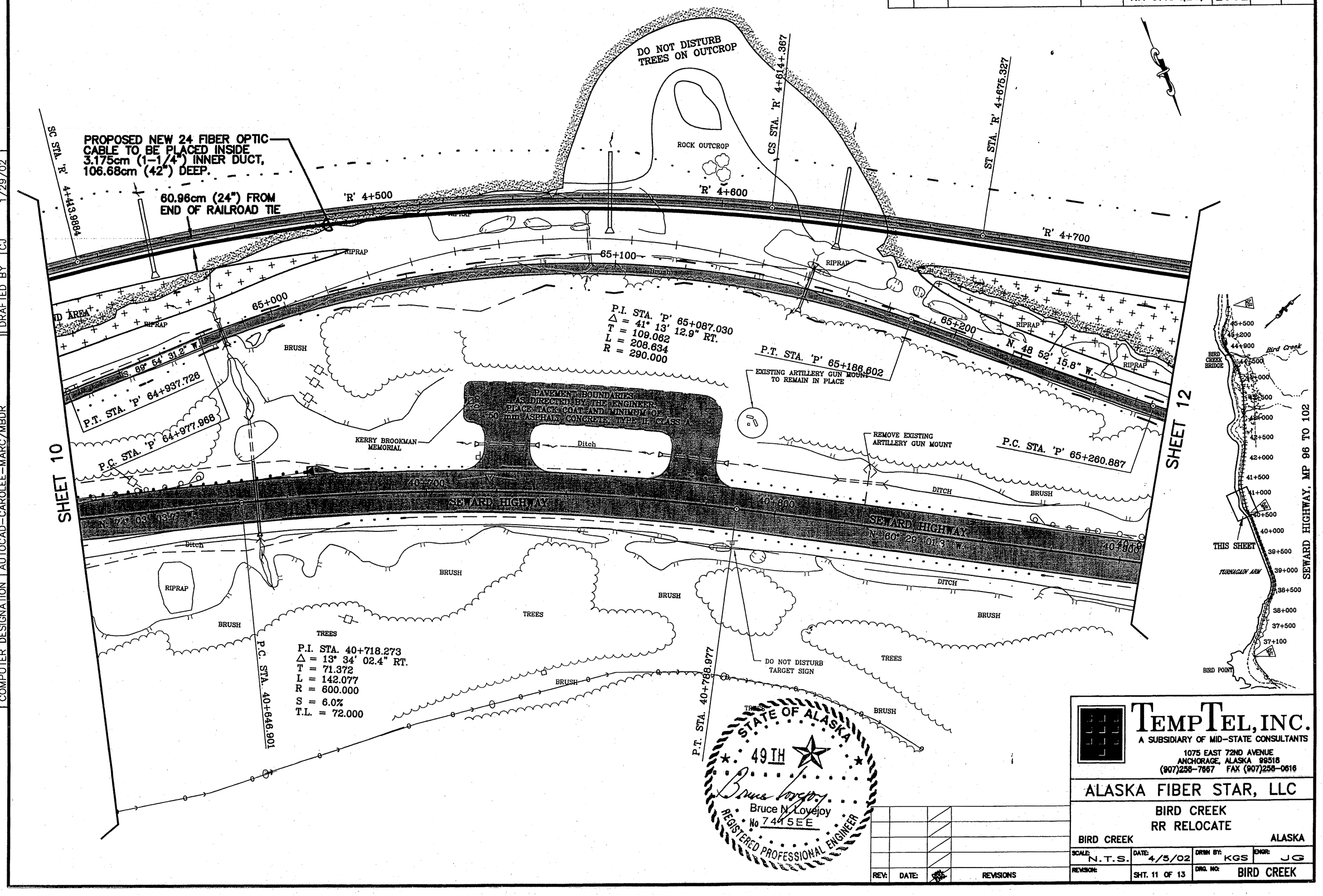
BIRD CREEK
RR RELOCATE

BIRD CREEK ALASKA

SCALE:	DATE:	DRWN BY:	ENGR:
N.T.S.	4/5/02	KGS	JG
REVISION:	SHT. 10 OF 13	DRG. NO:	BIRD CREEK

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	T20	T23

DESIGNED BY		
CHECKED BY		
DRAFTED BY	CJ	1/29/02
SPECIFICATIONS	VIEW ALL	
STANDARDS		
COMPUTER DESIGNATION	AUTOCAD-CAROLEE-MARC/MBDR	



REV:	DATE:		REVISIONS

TEMPTEL, INC.
A SUBSIDIARY OF MID-STATE CONSULTANTS
1075 EAST 72ND AVENUE
ANCHORAGE, ALASKA 99518
(907)258-7667 FAX (907)258-0616

ALASKA FIBER STAR, LLC

BIRD CREEK
RR RELOCATE

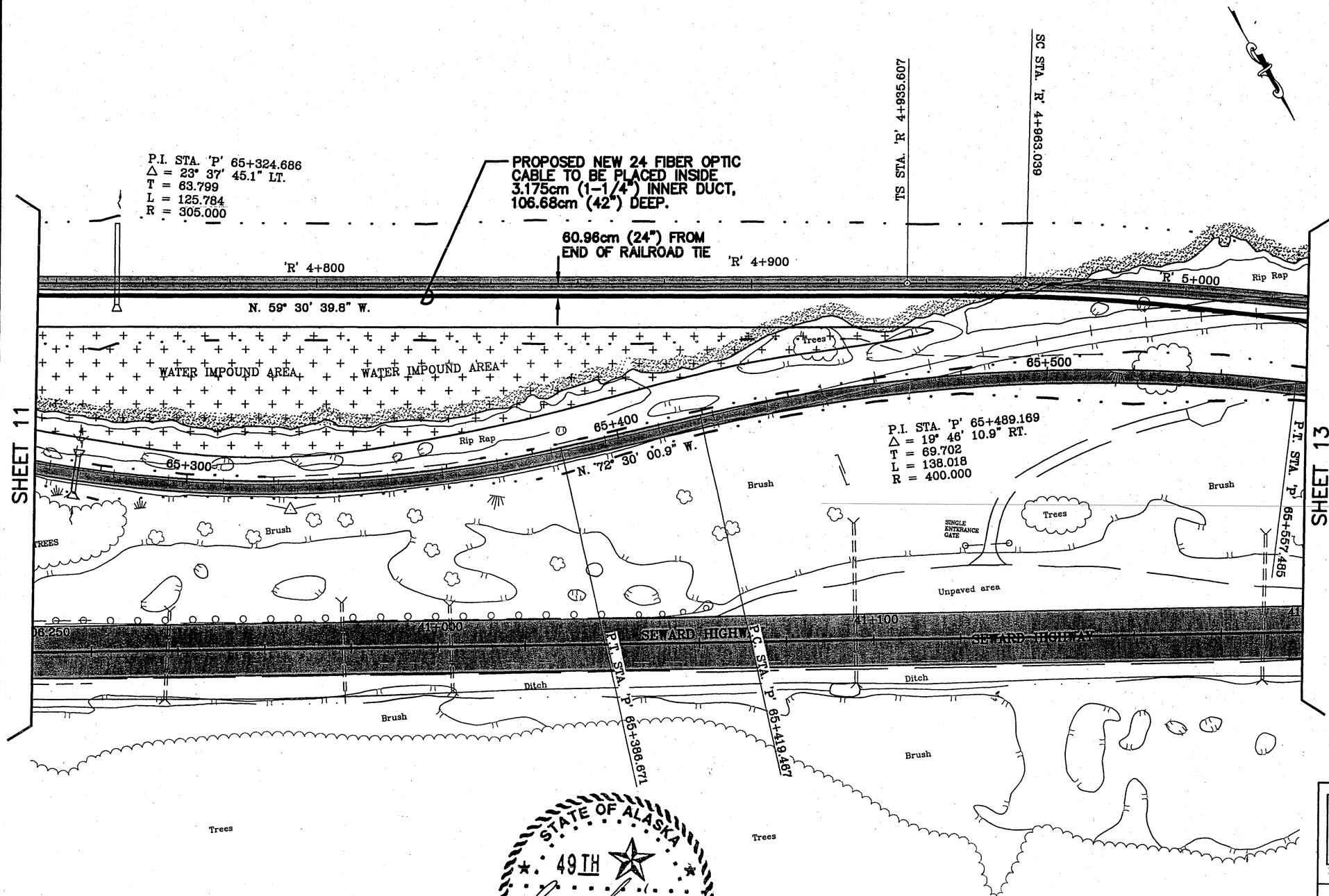
BIRD CREEK ALASKA

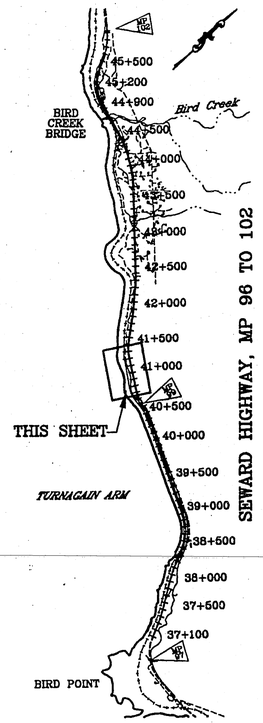
SCALE:	DATE:	DRWN BY:	ENGR:
N.T.S.	4/5/02	KGS	JG
REVISION:	SHT. 11 OF 13	DRG. NO:	BIRD CREEK

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	T21	T23

DESIGNED BY		
CHECKED BY		
DRAFTED BY	CJ	1/29/02

SPECIFICATIONS	
STANDARDS	VIEW ALL
COMPUTER DESIGNATION	AUTOCAD-CAROLEE-MARC/MBDR





STATE OF ALASKA
49TH
Bruce Lovejoy
Bruce N. Lovejoy
No 7415EE
REGISTERED PROFESSIONAL ENGINEER

REV:	DATE:		REVISIONS

TEMPTEL, INC.
A SUBSIDIARY OF MID-STATE CONSULTANTS
1075 EAST 72ND AVENUE
ANCHORAGE, ALASKA 99518
(907)258-7667 FAX (907)258-0616

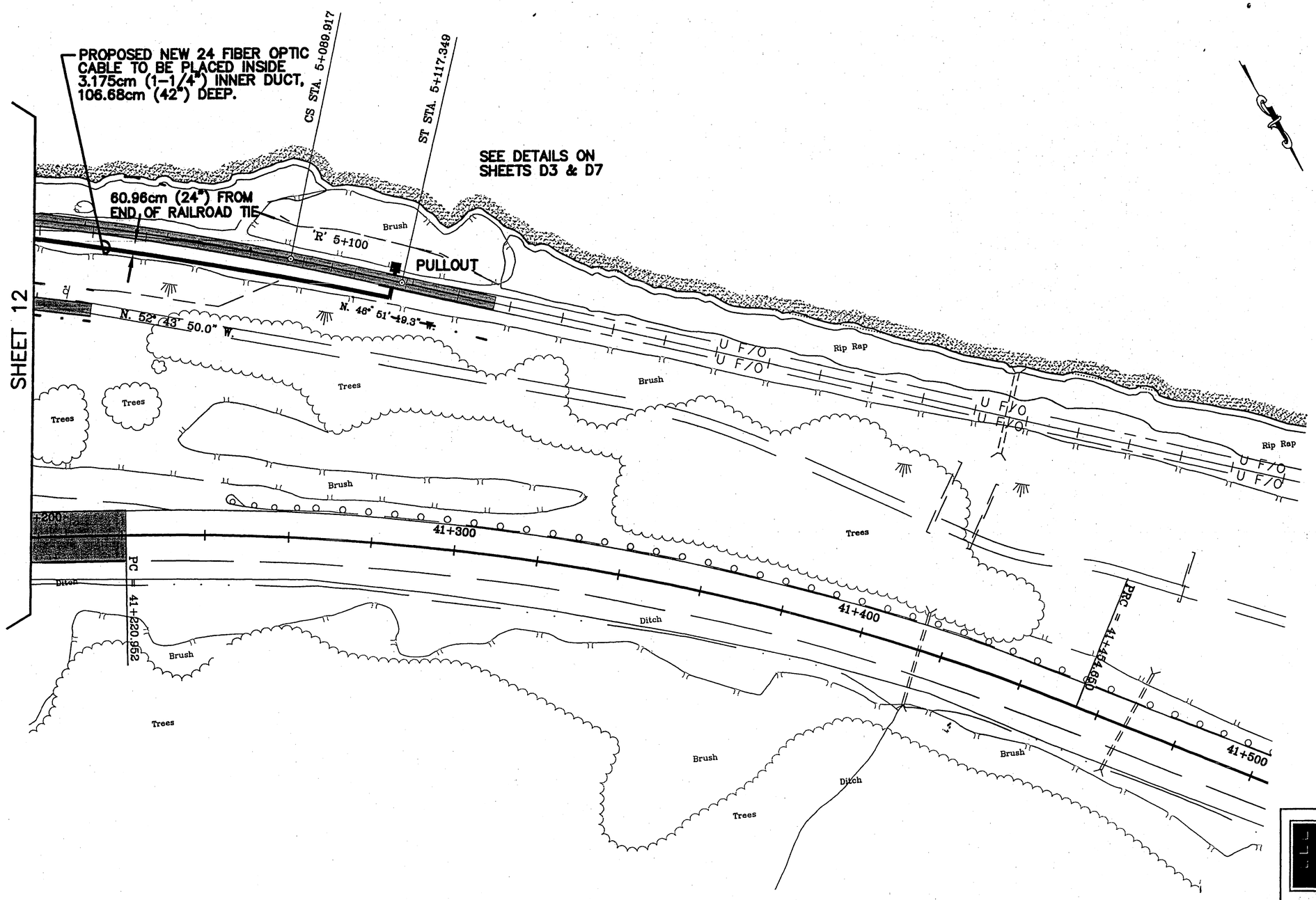
ALASKA FIBER STAR, LLC

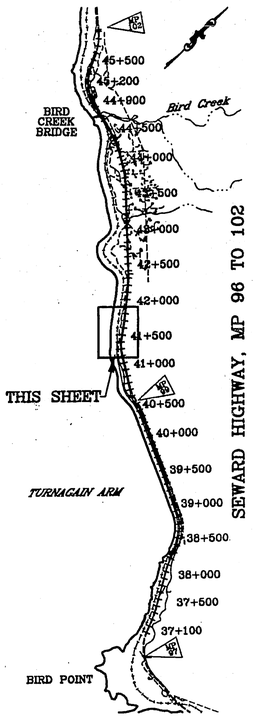
BIRD CREEK
RR RELOCATE

BIRD CREEK ALASKA

SCALE: N.T.S.	DATE: 4/5/02	DRWN BY: KGS	ENGR: JG
REVISION:	SHT. 12 OF 13	DRG. NO: BIRD CREEK	

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	T22	T23





STATE OF ALASKA
49TH
Bruce N. Lovejoy
No 7415EE
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY		
CHECKED BY		
DRAFTED BY	CJ	1/29/02
SPECIFICATIONS		
STANDARDS	VIEW ALL	
COMPUTER DESIGNATION	AUTOCAD-CAROLEE-MARC/MBDR	

TEMPTEL, INC.
A SUBSIDIARY OF MID-STATE CONSULTANTS
1075 EAST 72ND AVENUE
ANCHORAGE, ALASKA 99518
(907)258-7667 FAX (907)258-0616

ALASKA FIBER STAR, LLC

BIRD CREEK
RR RELOCATE

BIRD CREEK ALASKA

SCALE: N.T.S.	DATE: 4/5/02	DRWN BY: KGS	ENGR: JG
REVISION:	SHT. 13 OF 13	DRG. NO: BIRD CREEK	

REV:	DATE:	REVISIONS

TABULATION OF COMPLETED UNITS

TABULATION PERIOD, FROM: _____ TO: _____

EXCH. _____ W.O.# _____ CONTRACT# _____

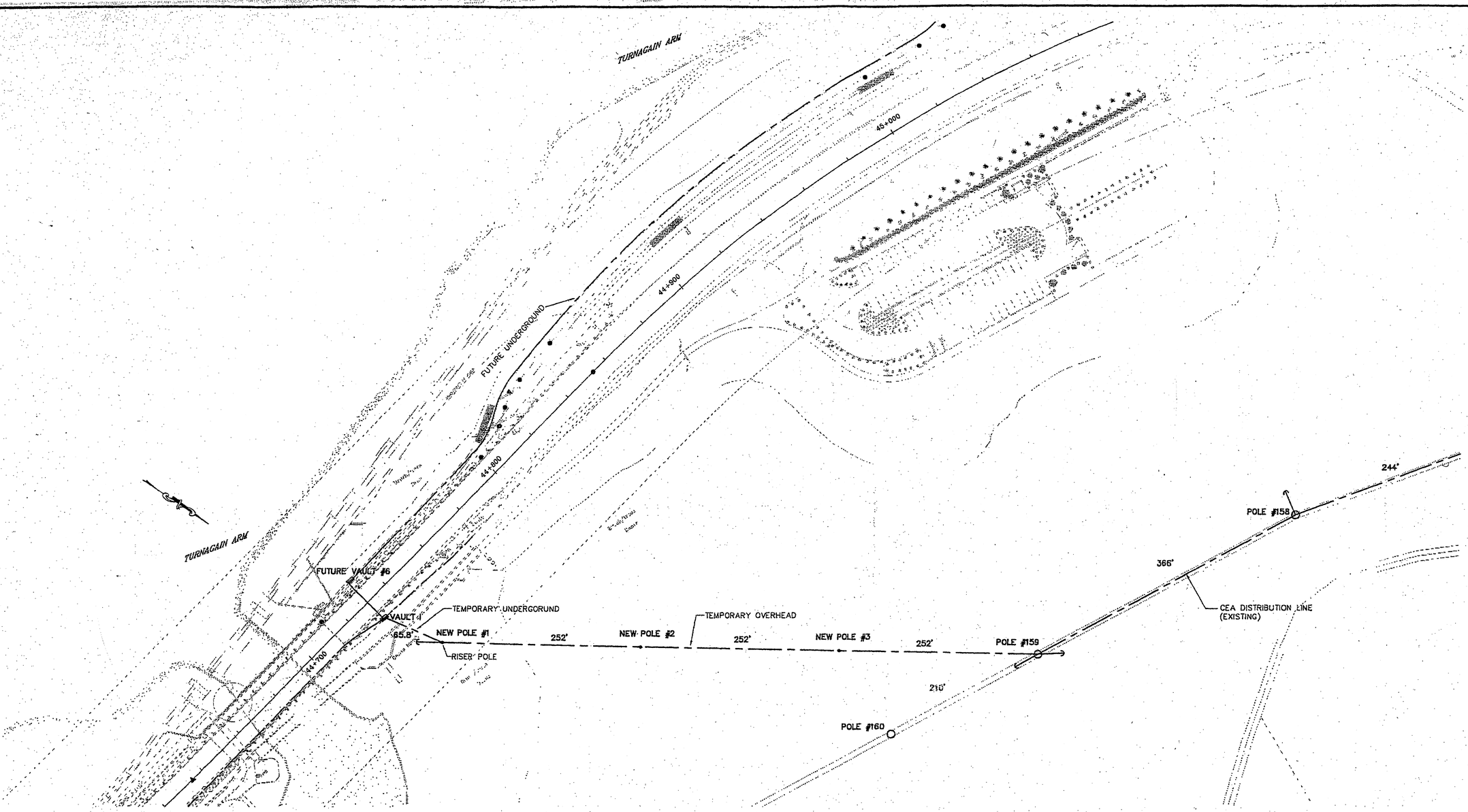
CONTRACTOR TEMPTEL P.O.# _____

PROJECT TITLE BIRD CREEK FIBER

ACTUAL CONSTRUCTION		TABBED (INITIALS/CO.)	DATE	BOOK
START DATE	COMP. DATE	JG	11-14-01	1 T23 1
		INSP. (INITIALS/CO.)	DATE	PAGE
				1 OF 1

UNITS AGREED UPON				ISSUE
CO. CONST. SUPT.	DATE	CONTRA. SUPT.	DATE	1
				SHEET NO.
				1 OF 1

SPLICE NO.	BA23	BD3A	BF024	BM2 (5/8)(10)	BM2C	BM53	HH (3X5)	WARNING MKR TAPE	UD (1X1-1 1/4)	W BF024	W HB0(24)	W UH (3X5)	W HO-1	XX BF024	XA BF024
1					1					.050	.24	1	.24		
2			7.393	1		5	1	7243	7268						
3	1	1	4.280	1			1	4180	4180						11.600
GRAND TOTAL	1	1	11.673	2	1	5	2	11423	11448	.050	.24	1	.24		11.600



U1 U23

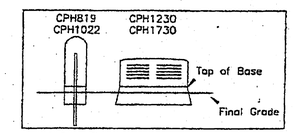
NOT IN CONTRACT
FOR INFORMATION ONLY

VICINITY MAP

CALL BEFORE YOU DIG!

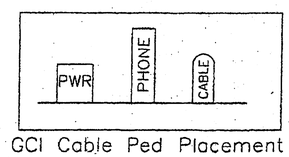
LOCATE CALL CENTER OF ALASKA (LCCA)

ANCHORAGE AREA	278-3121
STATEWIDE	800-478-3121
ALASKA RAILROAD	265-2520
KULIS AIR BASE	249-1499
MILITARY PETROLEUM FUEL LINES	552-3760
STATE STORM DRAINS & STREET LIGHTS	333-2411



GCI Pedestal Detail

Top of base is to be 2-3 inches above final grade on all pedestals.



GCI Cable Ped Placement

GCI peds are to be set 2'-3' from phone peds opposite of power peds. Where there are no phone peds, GCI peds are to be minimum 6' from power.

NOT TO SCALE

NEW

EXISTING

VAULT

STATE OF ALASKA 49th DELBERT S. LaRUE 3939-E REGISTERED PROFESSIONAL ENGINEER

AWN BY: R. ELLWOOD DATE: 3-7-02
SIGNER/PROJECT ENGINEER: K. HILL JOB #:

).	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE
	ISSUED FOR CONSTRUCTION	RAE/4-10-02

0	× POWER POLE	0	SET ANCHOR	0	AERIAL SUBS EXISTING
0	⊗ JOINT USE POLE	0	SIDEWALK ANCHOR	0	AERIAL SUBS POTENTIAL
0	CATV POLE	0	STRUT ANCHOR	0	UG SUBS EXISTING
0	○ TELEPHONE POLE	0	EXTENSION ARM	0	UG SUBS POTENTIAL
0	○ CONCRETE POLE	0	AERIAL FOOTAGE	0	MULTI UNIT SUBS
0	△ PRIVATE POLE	0	UG FOOTAGE	0	TOTAL EXISTING SUBS
0	○M METAL POLE	0	TOTAL FOOTAGE	0	TOTAL POTENTIAL SUBS
0	EXISTING ANCHOR	0.00	TOTAL MILEAGE	0	COMMERCIAL SUBS

GCI CABLE, INC

5151 Fairbanks Street
Anchorage, Alaska
99503

PROJECT NAME:

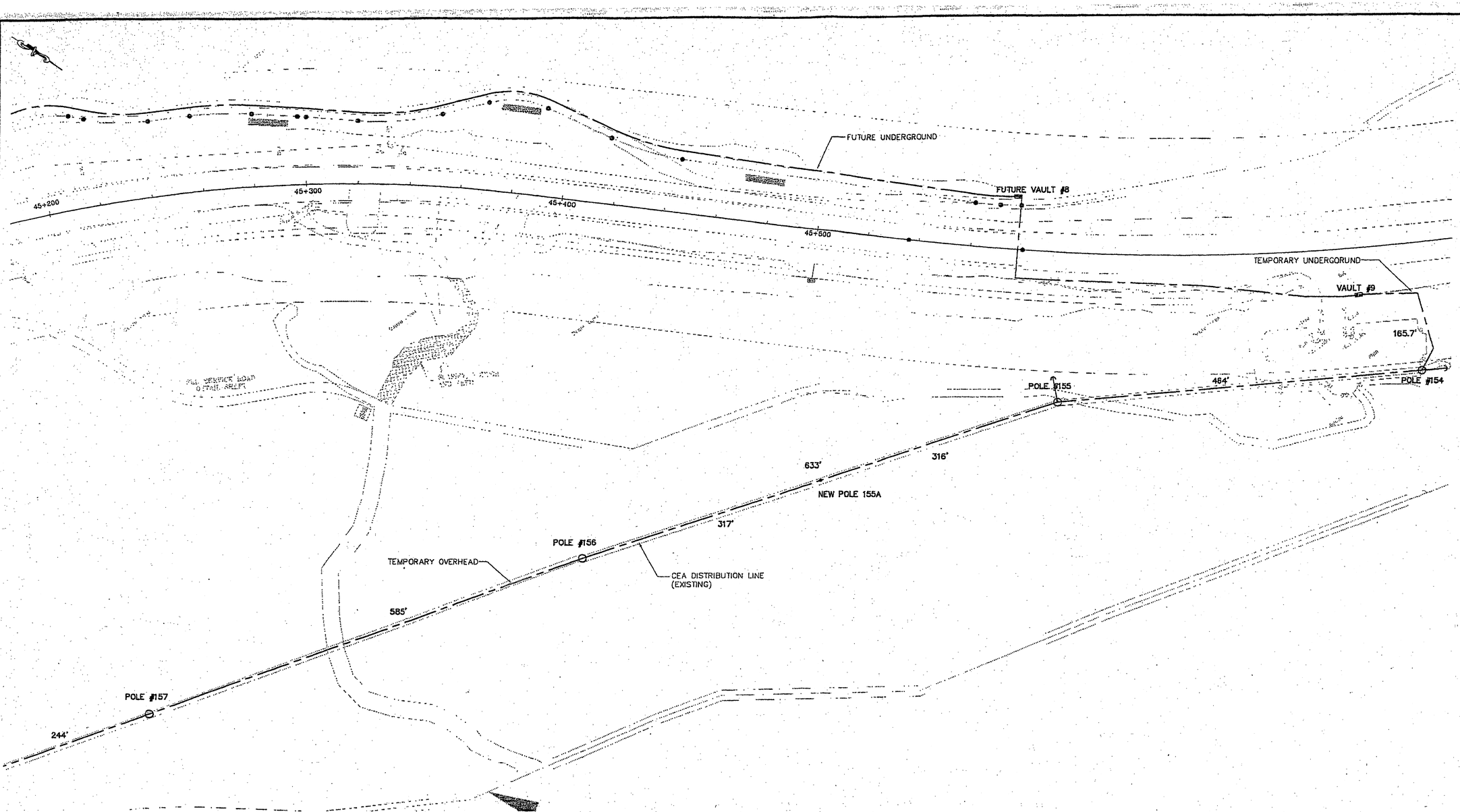
SEWARD HIGHWAY RELOCATION
MILE POST 96 TO 102
TEMPORARY F.O. RELOCATION

GRIDS:

DRAWING NAME: GCI-SHR-DOT

SHEET 1 OF 2

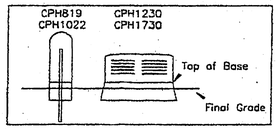
NOT IN CONTRACT
FOR INFORMATION ONLY



VICINITY MAP

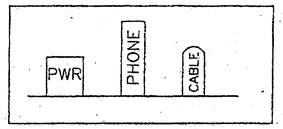
CALL BEFORE YOU DIG!

LOCATE CALL CENTER OF ALASKA (LCCA)
ANCHORAGE AREA..... 278-3121
STATEWIDE.....800-478-3121
ALASKA RAILROAD 265-2520
KULIS AIR BASE..... 249-1499
MILITARY PETROLEUM FUEL LINES..... 552-3760
STATE STORM DRAINS & STREET LIGHTS..... 333-2411



GCI Pedestal Detail

Top of base is to be 2-3 inches above final grade on all pedestals.



GCI Cable Ped Placement

GCI peds are to be set 2'-3' from phone peds opposite of power peds. Where there are no phone peds, GCI peds are to be minimum 6' from power.

NOT TO SCALE

NEW

EXISTING

VAULT

STATE OF ALASKA 49th
DELBERT S. LaRUE 3939-E
REGISTERED PROFESSIONAL ENGINEER

DRAWN BY: R. ELLWOOD DATE: 3-7-02
DESIGNER/PROJECT ENGINEER: K. HILL JOB #:

NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE
	ISSUED FOR CONSTRUCTION	RAE/4-10-02

0	× POWER POLE	0	SET ANCHOR	0	AERIAL SUBS EXISTING
0	JOINT USE POLE	0	SIDEWALK ANCHOR	0	AERIAL SUBS POTENTIAL
0	CATV POLE	0	STRUT ANCHOR	0	UG SUBS EXISTING
0	TELEPHONE POLE	0	EXTENSION ARM	0	UG SUBS POTENTIAL
0	CONCRETE POLE	0	AERIAL FOOTAGE	0	MULTI UNIT SUBS
0	PRIVATE POLE	0	UG FOOTAGE	0	TOTAL EXISTING SUBS
0	M METAL POLE	0	TOTAL FOOTAGE	0	TOTAL POTENTIAL SUBS
0	EXISTING ANCHOR	0.00	TOTAL MILEAGE	0	COMMERCIAL SUBS

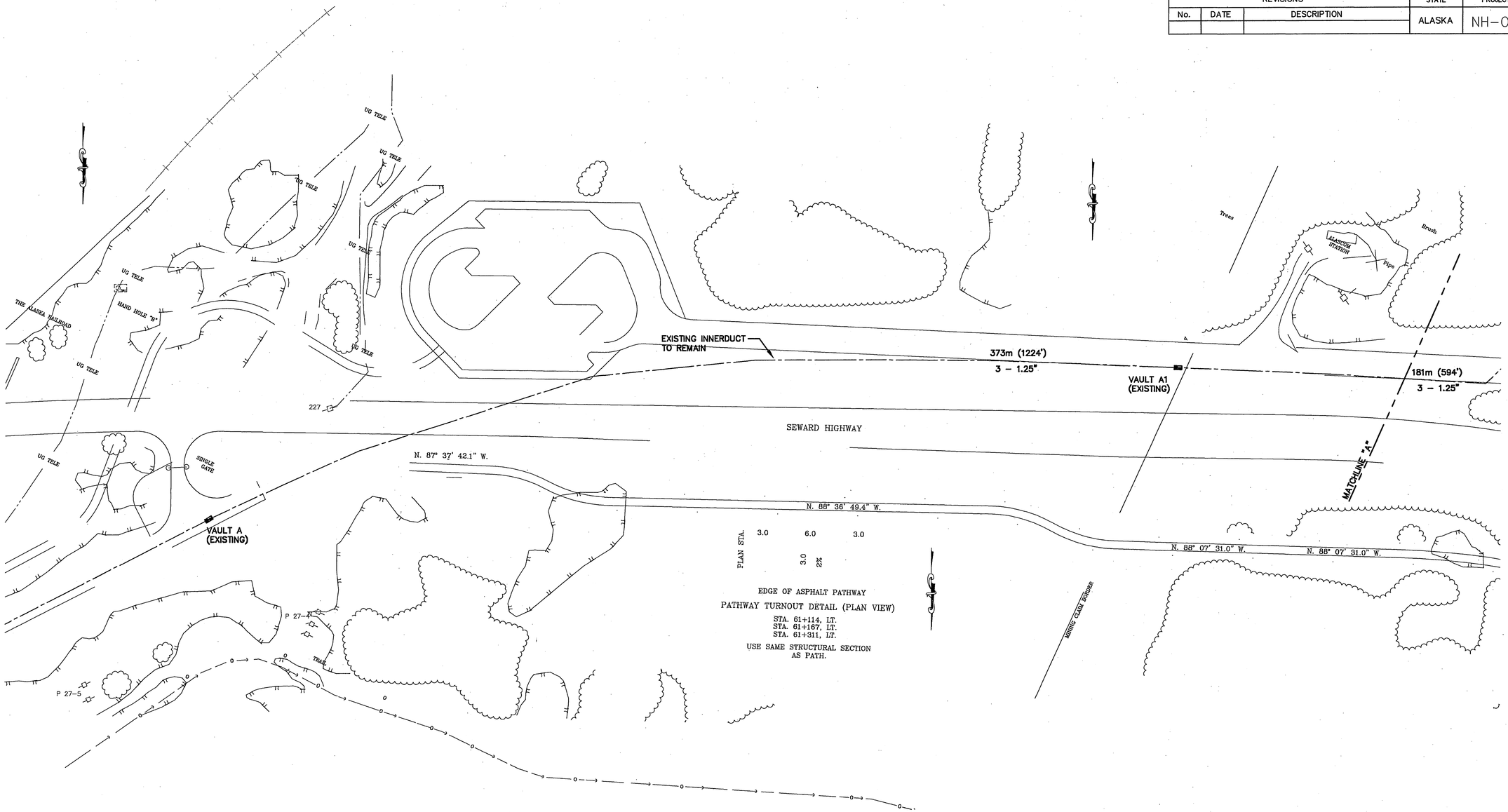
GCI CABLE,INC
5151 Fairbanks Street
Anchorage, Alaska
99503

PROJECT NAME:
SEWARD HIGHWAY RELOCATION
MILE POST 96 TO 102
TEMPORARY F.O. RELOCATION

GRIDS:

DRAWING NAME: GCI-SHR-DOT

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	U3	U23

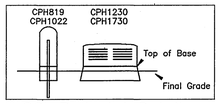


VICINITY MAP

CALL BEFORE YOU DIG!

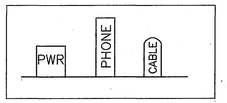
LOCATE CALL CENTER OF ALASKA (LCCA)

ANCHORAGE AREA	278-3121
STATEWIDE	800-478-3121
ALASKA RAILROAD	265-2520
KULIS AIR BASE	249-1499
MILITARY PETROLEUM FUEL LINES	552-3760
STATE STORM DRAINS & STREET LIGHTS	333-2411



GCI Pedestal Detail

Top of base is to be 2-3 inches above final grade on all pedestals.



GCI Cable Ped Placement

GCI peds are to be set 2'-3' from phone peds opposite of power peds. Where there are no phone peds, GCI peds are to be minimum 6' from power.

NOT TO SCALE

NEW

EXISTING

VAULT

STATE OF ALASKA 49th DELBERT S. LaRUE 3939-S REGISTERED PROFESSIONAL ENGINEER

NOTE:
Offsets given are at every 50m station or 100m station unless otherwise noted

Station offset reference point → GCI

DESIGNED BY	
CHECKED BY	
DRAFTED BY	CJ 1/29/02

SPECIFICATIONS	
STANDARDS	VIEW ALL
COMPUTER DESIGNATION	AUTOCAD-CAROLEE-MARC/MBDR

DRAWN BY: _____ DATE: _____
DESIGNER/PROJECT ENGINEER: _____ JOB #: _____

NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE
0	ISSUED FOR CONSTRUCTION	RAE/5-16-02

0	POWER POLE	0	SET ANCHOR	0	AERIAL SUBS EXISTING
0	JOINT USE POLE	0	SIDEWALK ANCHOR	0	AERIAL SUBS POTENTIAL
0	CATV POLE	0	STRUT ANCHOR	0	UG SUBS EXISTING
0	TELEPHONE POLE	0	EXTENSION ARM	0	UG SUBS POTENTIAL
0	CONCRETE POLE	0	AERIAL FOOTAGE	0	MULTI UNIT SUBS
0	PRIVATE POLE	0	UG FOOTAGE	0	TOTAL EXISTING SUBS
0	METAL POLE	0	TOTAL FOOTAGE	0	TOTAL POTENTIAL SUBS
0	EXISTING ANCHOR	0.00	TOTAL MILEAGE	0	COMMERCIAL SUBS

GCI CABLE, INC

5151 Fairbanks Street
Anchorage, Alaska
99503

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

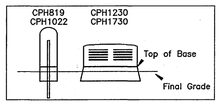
SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	U4	U23

VICINITY MAP

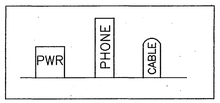
CALL BEFORE YOU DIG!

LOCATE CALL CENTER OF ALASKA (LCCA)
ANCHORAGE AREA..... 278-3121
STATEWIDE.....800-478-3121
ALASKA RAILROAD 265-2520
KULIS AIR BASE..... 249-1499
MILITARY PETROLEUM FUEL LINES..... 552-3760
STATE STORM DRAINS & STREET LIGHTS..... 333-2411



GCI Pedestal Detail

Top of base is to be 2-3 inches above final grade on all pedestals.



GCI Cable Ped Placement

GCI peds are to be set 2'-3' from phone peds opposite of power peds. Where there are no phone peds, GCI peds are to be minimum 6' from power.

NOT TO SCALE

NEW

EXISTING

VAULT

NOTE:
Offsets given are at every 50m station or 100m station unless otherwise noted

Station offset reference point → GCI

STATE OF ALASKA
49th
DELBERT S. LoRUE
3939-E
REGISTERED PROFESSIONAL ENGINEER

DRAWN BY: _____ DATE: _____
DESIGNER/PROJECT ENGINEER: _____ JOB #: _____

NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE
0	ISSUED FOR CONSTRUCTION	RAE/5-16-02

0	POWER POLE	0	SET ANCHOR	0	AERIAL SUBS EXISTING
0	JOINT USE POLE	0	SIDEWALK ANCHOR	0	AERIAL SUBS POTENTIAL
0	CATV POLE	0	STRUT ANCHOR	0	UG SUBS EXISTING
0	TELEPHONE POLE	0	EXTENSION ARM	0	UG SUBS POTENTIAL
0	CONCRETE POLE	0	AERIAL FOOTAGE	0	MULTI UNIT SUBS
0	PRIVATE POLE	0	UG FOOTAGE	0	TOTAL EXISTING SUBS
0	METAL POLE	0	TOTAL FOOTAGE	0	TOTAL POTENTIAL SUBS
0	EXISTING ANCHOR	0.00	TOTAL MILEAGE	0	COMMERCIAL SUBS

GCI CABLE,INC
5151 Fairbanks Street
Anchorage, Alaska
99503

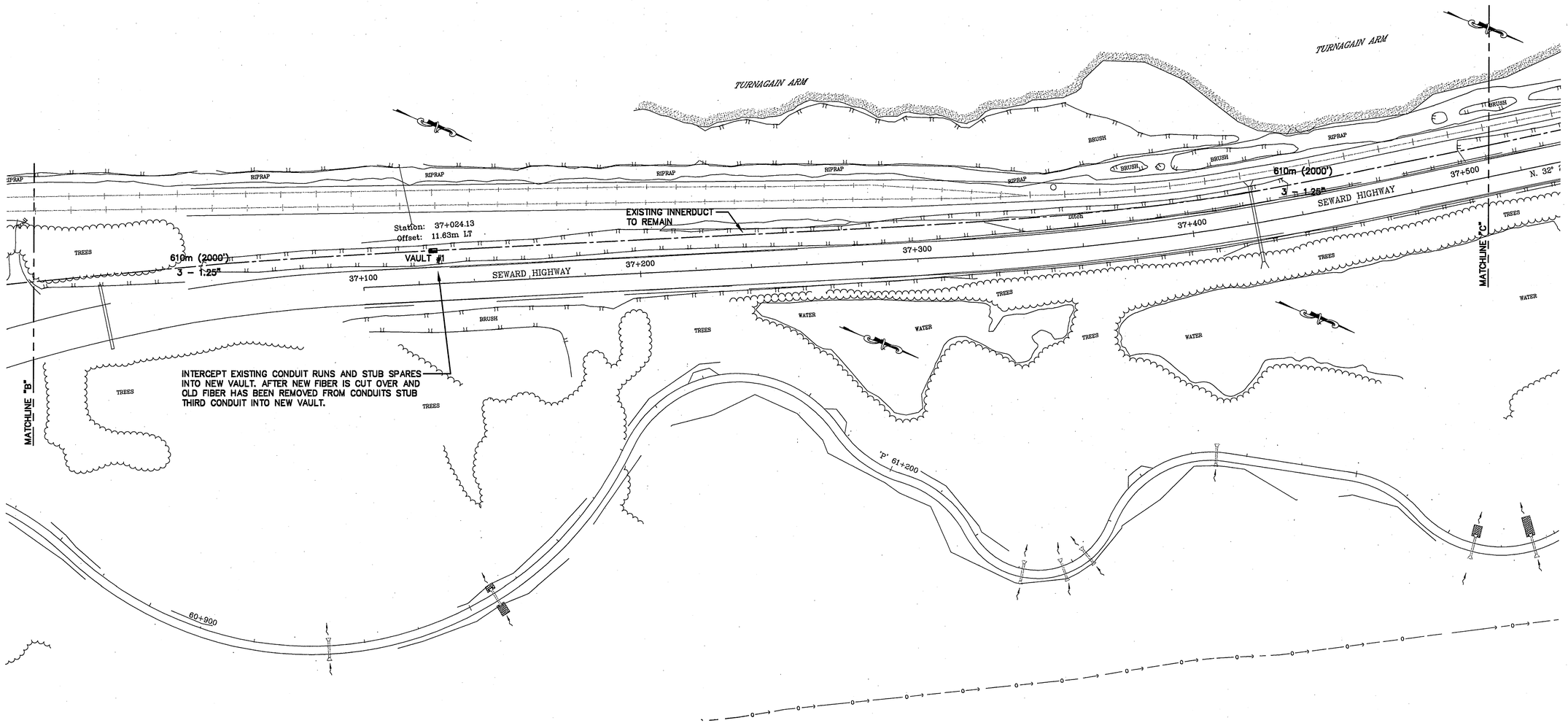
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

DESIGNED BY	
CHECKED BY	
DRAFTED BY	CJ
SPECIFICATIONS	
STANDARDS	VIEW ALL
COMPUTER DESIGNATION	AUTOCAD-CAROLEE-MARC/MBDR

1/29/02

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	U5	U23

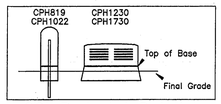


VICINITY MAP

CALL BEFORE YOU DIG!

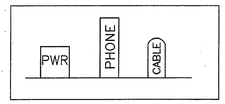
LOCATE CALL CENTER OF ALASKA (LCCA)

ANCHORAGE AREA	278-3121
STATEWIDE	800-478-3121
ALASKA RAILROAD	265-2520
KULIS AIR BASE	249-1499
MILITARY PETROLEUM FUEL LINES	552-3760
STATE STORM DRAINS & STREET LIGHTS	333-2411



GCI Pedestal Detail

Top of base is to be 2-3 inches above final grade on all pedestals.



GCI Cable Ped Placement

GCI peds are to be set 2'-3' from phone peds opposite of power peds. Where there are no phone peds, GCI peds are to be minimum 6' from power.

NOT TO SCALE

NEW

EXISTING

VAULT

STATE OF ALASKA
49th
DELBERT S. LaRUE
3939-E
REGISTERED PROFESSIONAL ENGINEER

NOTE:
Offsets given are at every 50m station or 100m station unless otherwise noted

Station offset reference point → GCI

DESIGNED BY
CHECKED BY
DRAFTED BY CJ
1/29/02

SPECIFICATIONS
STANDARDS
COMPUTER DESIGNATION / AUTOCAD-CAROLEE-MARC/MBDR
VIEW ALL

DRAWN BY: _____ DATE: _____
DESIGNER/PROJECT ENGINEER: _____ JOB #: _____

NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE
0	ISSUED FOR CONSTRUCTION	RAE/5-16-02

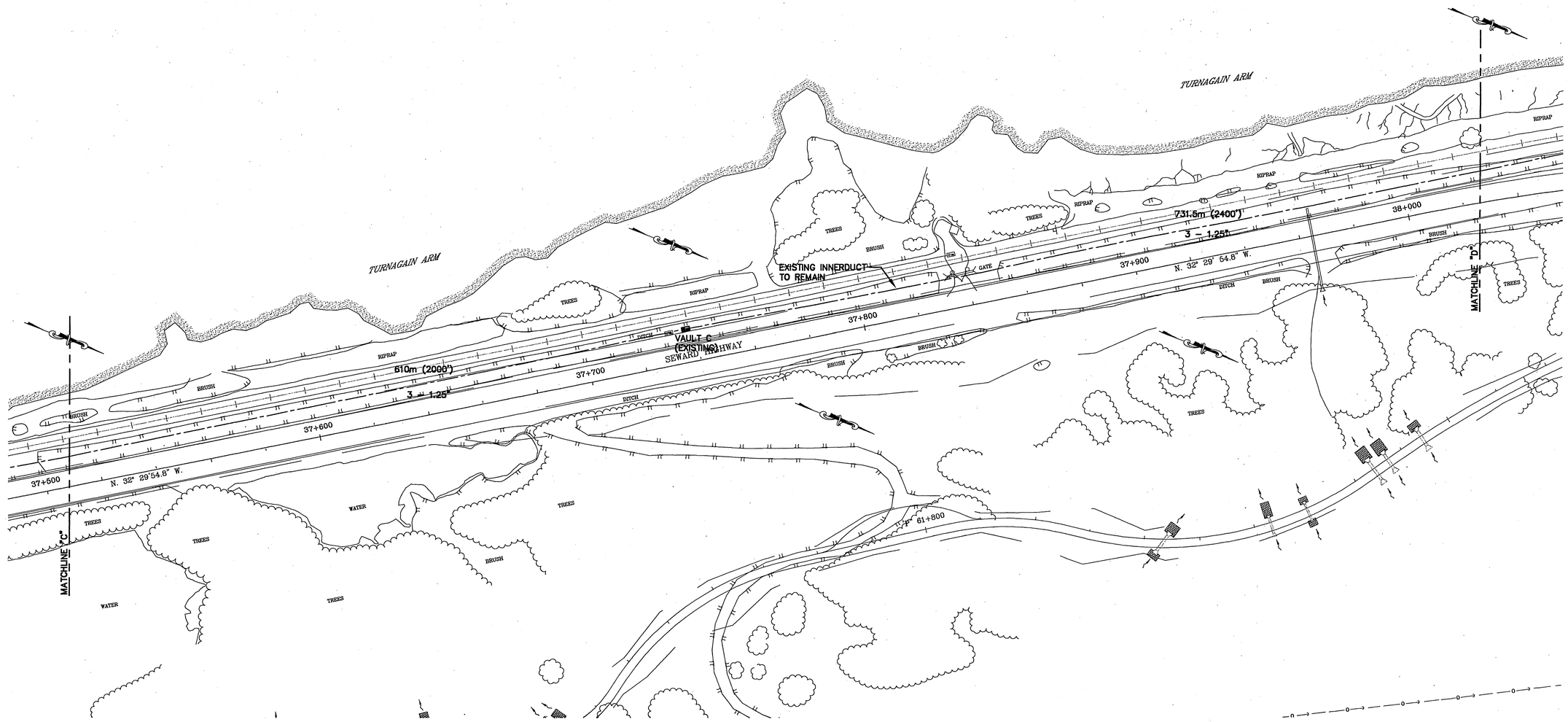
0	×	POWER POLE	0		SET ANCHOR	0	AERIAL SUBS EXISTING
0	⊗	JOINT USE POLE	0		SIDEWALK ANCHOR	0	AERIAL SUBS POTENTIAL
0	◉	CATV POLE	0		STRUT ANCHOR	0	UG SUBS EXISTING
0	○	TELEPHONE POLE	0		EXTENSION ARM	0	UG SUBS POTENTIAL
0	○	CONCRETE POLE	0		AERIAL FOOTAGE	0	MULTI UNIT SUBS
0	△	PRIVATE POLE	0		UG FOOTAGE	0	TOTAL EXISTING SUBS
0	○M	METAL POLE	0		TOTAL FOOTAGE	0	TOTAL POTENTIAL SUBS
0		EXISTING ANCHOR	0.00		TOTAL MILEAGE	0	COMMERCIAL SUBS

GCI CABLE, INC
5151 Fairbanks Street
Anchorage, Alaska
99503

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	U6	U23

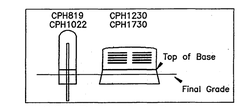


VICINITY MAP

CALL BEFORE YOU DIG!

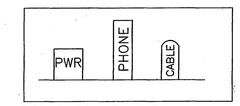
LOCATE CALL CENTER OF ALASKA (LCCA)

ANCHORAGE AREA	278-3121
STATEWIDE	800-478-3121
ALASKA RAILROAD	265-2520
KULIS AIR BASE	249-1499
MILITARY PETROLEUM FUEL LINES	552-3760
STATE STORM DRAINS & STREET LIGHTS	333-2411



GCI Pedestal Detail

Top of base is to be 2-3 inches above final grade on all pedestals.



GCI Cable Ped Placement

GCI peds are to be set 2'-3' from phone peds opposite of power peds. Where there are no phone peds, GCI peds are to be minimum 6' from power.

NOT TO SCALE

NEW

EXISTING

VAULT

NOTE:
Offsets given are at every 50m station or 100m station unless otherwise noted

Station offset reference point → GCI

STATE OF ALASKA
49th
DELBERT S. LaRUE
3939-E
REGISTERED PROFESSIONAL ENGINEER

DRAWN BY: _____ DATE: _____
DESIGNER/PROJECT ENGINEER: _____ JOB #: _____

NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE
0	ISSUED FOR CONSTRUCTION	RAE/5-16-02

0	POWER POLE	0	SET ANCHOR	0	AERIAL SUBS EXISTING
0	JOINT USE POLE	0	SIDEWALK ANCHOR	0	AERIAL SUBS POTENTIAL
0	CATV POLE	0	STRUT ANCHOR	0	UG SUBS EXISTING
0	TELEPHONE POLE	0	EXTENSION ARM	0	UG SUBS POTENTIAL
0	CONCRETE POLE	0	AERIAL FOOTAGE	0	MULTI UNIT SUBS
0	PRIVATE POLE	0	UG FOOTAGE	0	TOTAL EXISTING SUBS
0	M METAL POLE	0	TOTAL FOOTAGE	0	TOTAL POTENTIAL SUBS
0	EXISTING ANCHOR	0.00	TOTAL MILEAGE	0	COMMERCIAL SUBS

GCI CABLE, INC

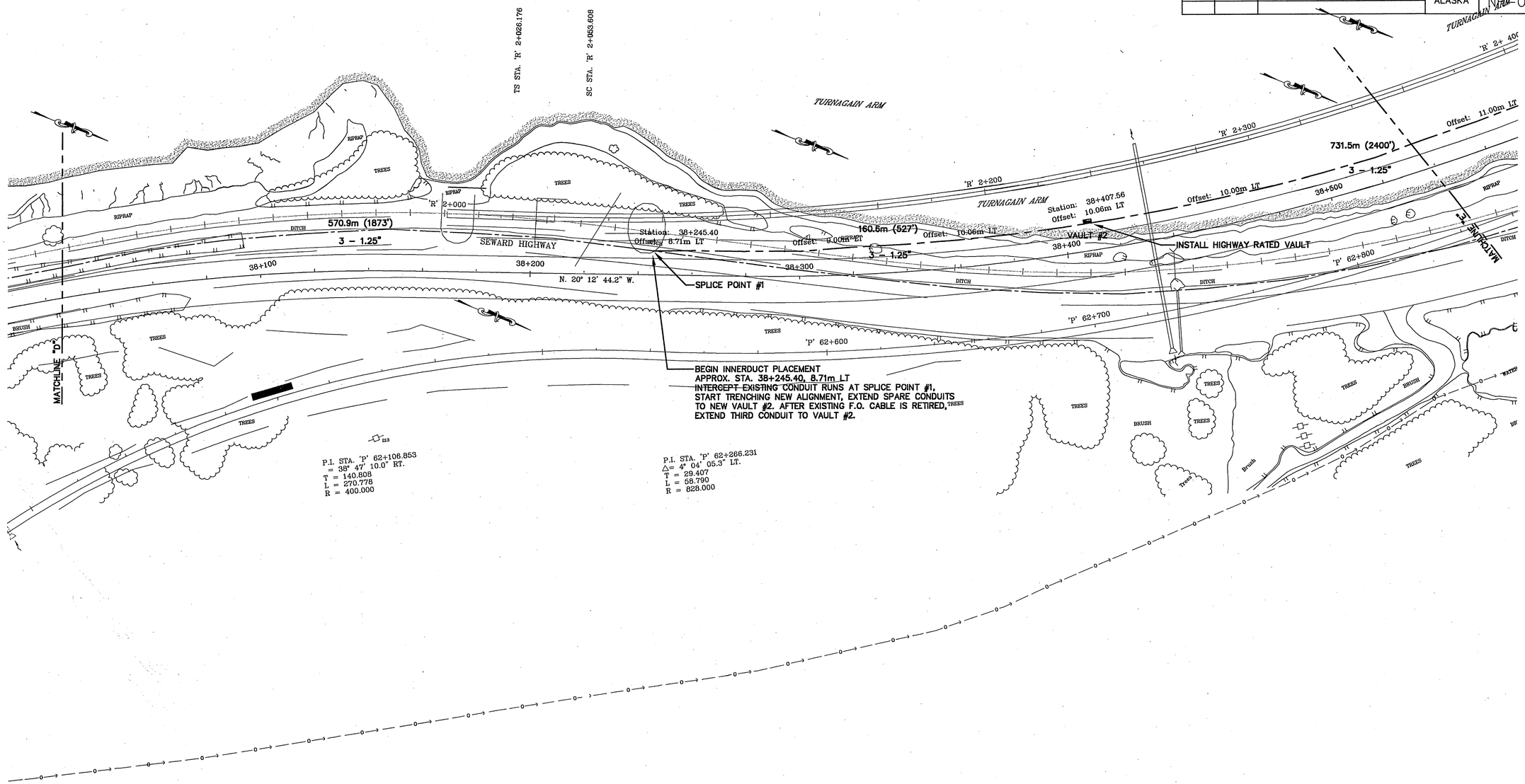
GCI CABLE,INC
5151 Fairbanks Street
Anchorage, Alaska
99503

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

DESIGNED BY	
CHECKED BY	
DRAFTED BY	CJ 1/29/02
SPECIFICATIONS	
STANDARDS	VIEW ALL
COMPUTER DESIGNATION	AUTOCAD-CAROLEE-MARC/MBDR

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NHW-0A3-1(28)	2002	U7	U23

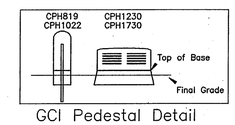


VICINITY MAP

CALL BEFORE YOU DIG!

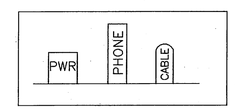
LOCATE CALL CENTER OF ALASKA (LCCA)

ANCHORAGE AREA	278-3121
STATEWIDE	800-478-3121
ALASKA RAILROAD	265-2520
KULIS AIR BASE	249-1499
MILITARY PETROLEUM FUEL LINES	552-3760
STATE STORM DRAINS & STREET LIGHTS	333-2411



GCI Pedestal Detail

Top of base is to be 2-3 inches above final grade on all pedestals.



GCI Cable Ped Placement

GCI peds are to be set 2'-3' from phone peds opposite of power peds. Where there are no phone peds, GCI peds are to be minimum 6' from power.

NOT TO SCALE

NEW

EXISTING

VAULT

STATE OF ALASKA 49th DELBERT S. LoRUE 3939-E REGISTERED PROFESSIONAL ENGINEER

NOTE:
Offsets given are at every 50m station or 100m station unless otherwise noted

Station offset reference point → GCI

DESIGNED BY	
CHECKED BY	
DRAFTED BY	C.J. 1/29/02
SPECIFICATIONS	
STANDARDS	
COMPUTER DESIGNATION	VIEW ALL
	AUTOCAD-CAROLEE-MARC/MBDR

DRAWN BY: _____ DATE: _____

DESIGNER/PROJECT ENGINEER: _____ JOB #: _____

NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE
0	ISSUED FOR CONSTRUCTION	RAE/5-16-02

0	POWER POLE	0	SET ANCHOR	0	AERIAL SUBS EXISTING
0	JOINT USE POLE	0	SIDEWALK ANCHOR	0	AERIAL SUBS POTENTIAL
0	CATV POLE	0	STRUT ANCHOR	0	UG SUBS EXISTING
0	TELEPHONE POLE	0	EXTENSION ARM	0	UG SUBS POTENTIAL
0	CONCRETE POLE	0	AERIAL FOOTAGE	0	MULTI UNIT SUBS
0	PRIVATE POLE	0	UG FOOTAGE	0	TOTAL EXISTING SUBS
0	METAL POLE	0	TOTAL FOOTAGE	0	TOTAL POTENTIAL SUBS
0	EXISTING ANCHOR	0.00	TOTAL MILEAGE	0	COMMERCIAL SUBS

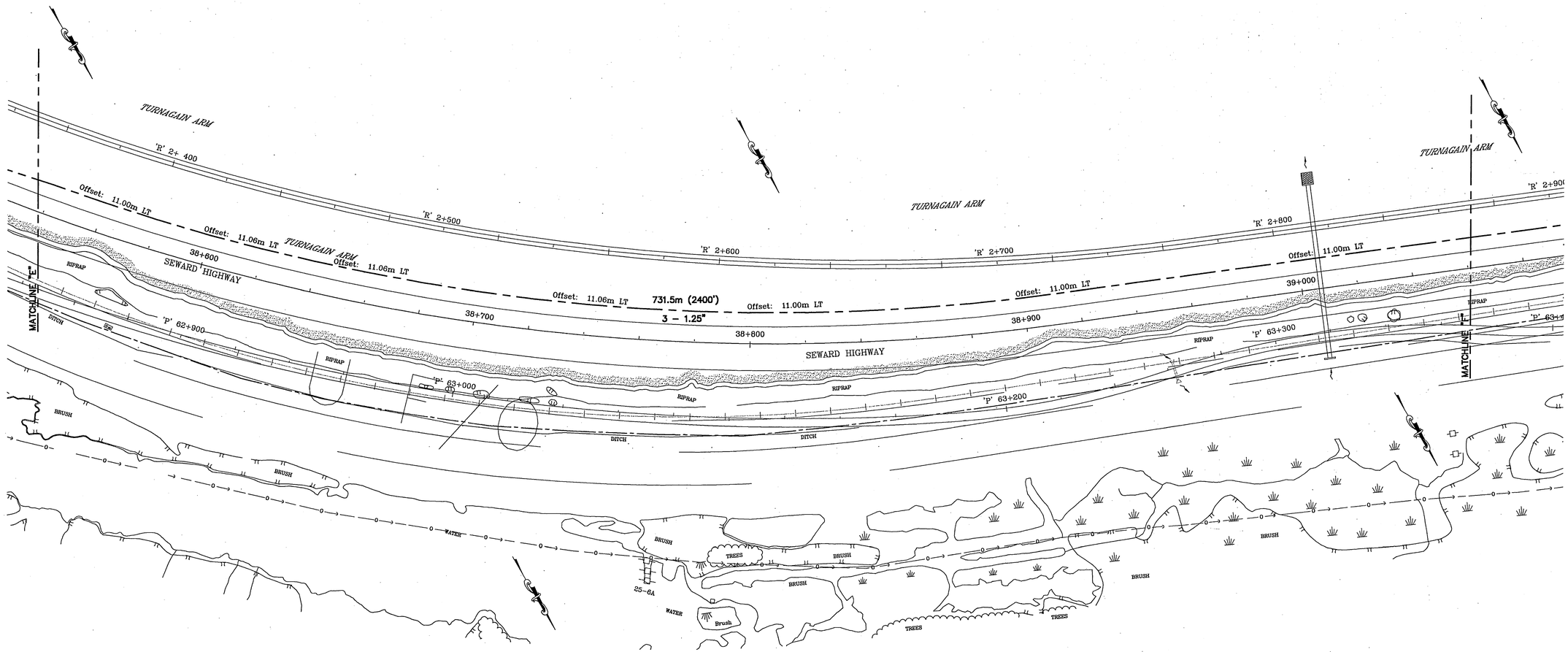
GCI CABLE, INC

5151 Fairbanks Street
Anchorage, Alaska
99503

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

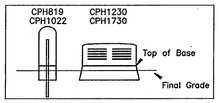
REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	U 8	U 23



VICINITY MAP

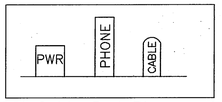
CALL BEFORE YOU DIG!

LOCATE CALL CENTER OF ALASKA (LCCA)
ANCHORAGE AREA..... 278-3121
STATEWIDE.....800-478-3121
ALASKA RAILROAD 265-2520
KULIS AIR BASE..... 249-1499
MILITARY PETROLEUM FUEL LINES..... 552-3760
STATE STORM DRAINS & STREET LIGHTS..... 333-2411



GCI Pedestal Detail

Top of base is to be 2-3 inches above final grade on all pedestals.



GCI Cable Ped Placement

GCI peds are to be set 2'-3' from phone peds opposite of power peds. Where there are no phone peds, GCI peds are to be minimum 6' from power.

NOT TO SCALE

NEW

EXISTING

VAULT

NOTE:
Offsets given are at every 50m station or 100m station unless otherwise noted

Station offset reference point → GCI

STATE OF ALASKA
49th
DELBERT S. LaRUE
3939
REGISTERED PROFESSIONAL ENGINEER

DRAWN BY: _____ DATE: _____
DESIGNER/PROJECT ENGINEER: _____ JOB #: _____

NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE
0	ISSUED FOR CONSTRUCTION	RAE/5-16-02

0	POWER POLE	0	SET ANCHOR	0	AERIAL SUBS EXISTING
0	JOINT USE POLE	0	SIDEWALK ANCHOR	0	AERIAL SUBS POTENTIAL
0	CATV POLE	0	STRUT ANCHOR	0	UG SUBS EXISTING
0	TELEPHONE POLE	0	EXTENSION ARM	0	UG SUBS POTENTIAL
0	CONCRETE POLE	0	AERIAL FOOTAGE	0	MULTI UNIT SUBS
0	PRIVATE POLE	0	UG FOOTAGE	0	TOTAL EXISTING SUBS
0	METAL POLE	0	TOTAL FOOTAGE	0	TOTAL POTENTIAL SUBS
0	EXISTING ANCHOR	0.00	TOTAL MILEAGE	0	COMMERCIAL SUBS

GCI CABLE,INC

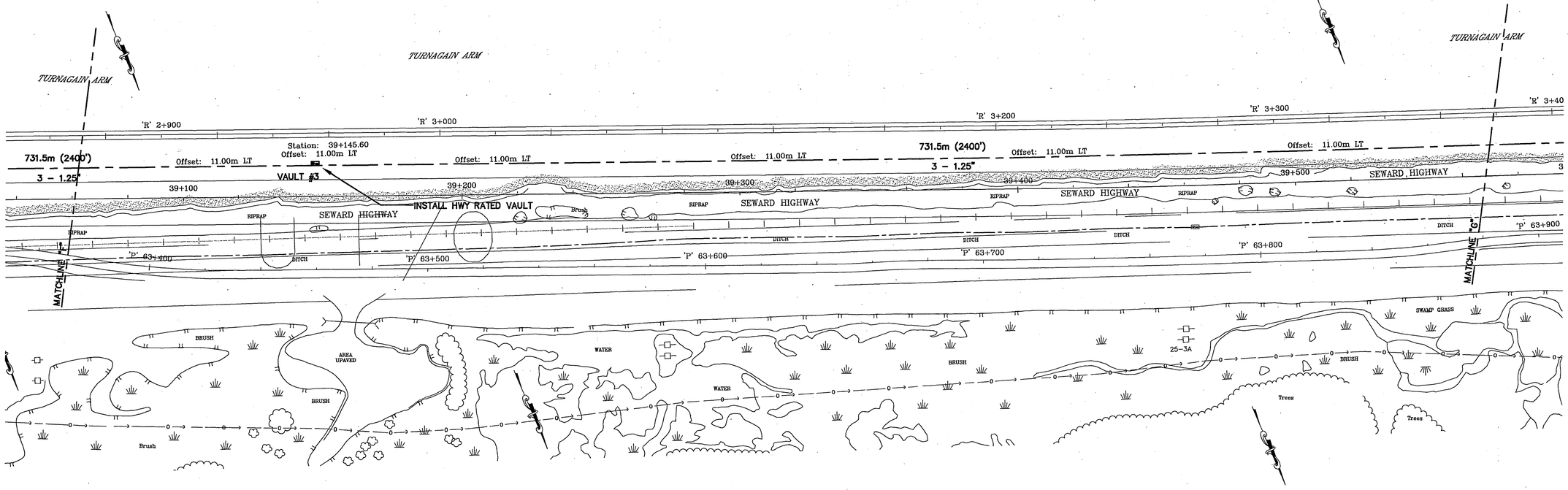
5151 Fairbanks Street
Anchorage, Alaska
99503

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

DESIGNED BY	
CHECKED BY	
DRAFTED BY	CJ
1/29/02	
SPECIFICATIONS	
STANDARDS	
COMPUTER DESIGNATION	VIEW ALL
	AUTOCAD-CAROLEE-MARC/MBDR

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	U9	U23

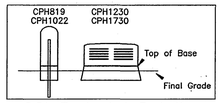


VICINITY MAP

CALL BEFORE YOU DIG!

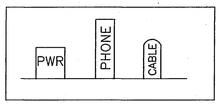
LOCATE CALL CENTER OF ALASKA (LCCA)

ANCHORAGE AREA	278-3121
STATEWIDE	800-478-3121
ALASKA RAILROAD	265-2520
KULIS AIR BASE	249-1499
MILITARY PETROLEUM FUEL LINES	552-3760
STATE STORM DRAINS & STREET LIGHTS	333-2411



GCI Pedestal Detail

Top of base is to be 2-3 inches above final grade on all pedestals.



GCI Cable Ped Placement

GCI peds are to be set 2'-3' from phone peds opposite of power peds. Where there are no phone peds, GCI peds are to be minimum 6' from power.

NOT TO SCALE

NEW

EXISTING

VAULT

STATE OF ALASKA 49th DELBERT S. LaRUE 3930-S PROFESSIONAL ENGINEER

NOTE:
Offsets given are at every 50m station or 100m station unless otherwise noted

Station offset reference point → GCI

DESIGNED BY	
CHECKED BY	
DRAFTED BY	CJ
1/29/02	

SPECIFICATIONS	
STANDARDS	VIEW ALL
COMPUTER DESIGNATION	AUTOCAD-CAROLEE-MARC/MBOR

DRAWN BY: _____ DATE: _____

DESIGNER/PROJECT ENGINEER: _____ JOB #: _____

NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE
0	ISSUED FOR CONSTRUCTION	RAE/5-16-02

0	POWER POLE	0	SET ANCHOR	0	AERIAL SUBS EXISTING
0	JOINT USE POLE	0	SIDEWALK ANCHOR	0	AERIAL SUBS POTENTIAL
0	CATV POLE	0	STRUT ANCHOR	0	UG SUBS EXISTING
0	TELEPHONE POLE	0	EXTENSION ARM	0	UG SUBS POTENTIAL
0	CONCRETE POLE	0	AERIAL FOOTAGE	0	MULTI UNIT SUBS
0	PRIVATE POLE	0	UG FOOTAGE	0	TOTAL EXISTING SUBS
0	METAL POLE	0	TOTAL FOOTAGE	0	TOTAL POTENTIAL SUBS
0	EXISTING ANCHOR	0.00	TOTAL MILEAGE	0	COMMERCIAL SUBS

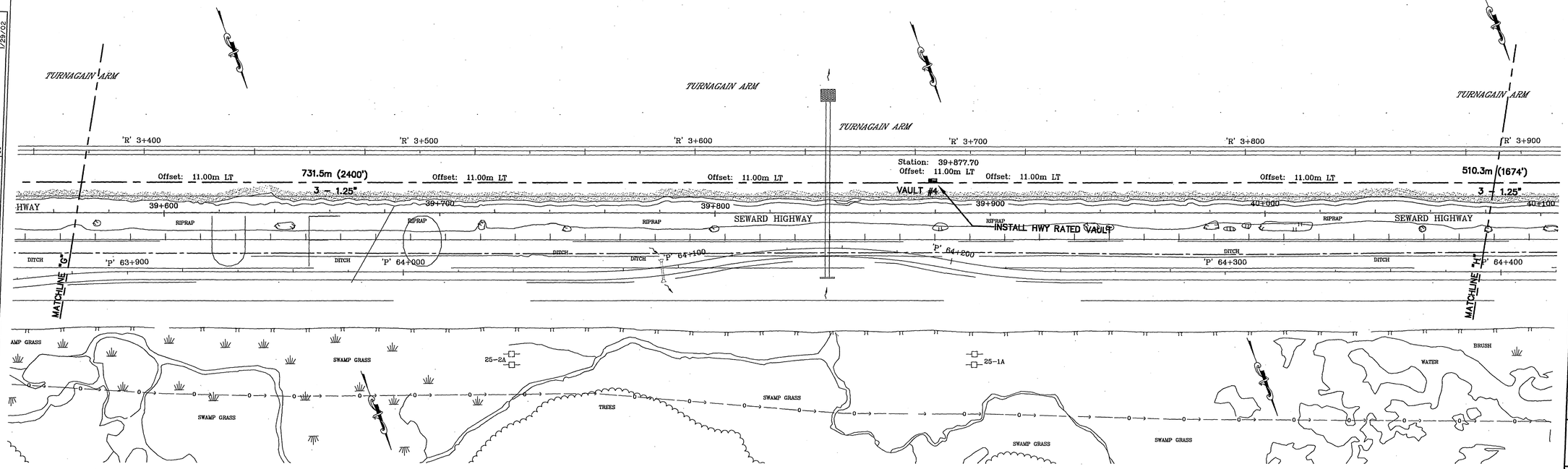
GCI CABLE, INC

5151 Fairbanks Street
Anchorage, Alaska
99503

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

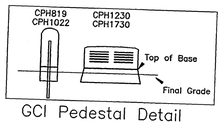
REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	U10	U23



VICINITY MAP

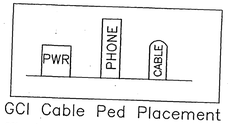
CALL BEFORE YOU DIG!

LOCATE CALL CENTER OF ALASKA (LCCA)
ANCHORAGE AREA..... 278-3121
STATEWIDE.....800-478-3121
ALASKA RAILROAD 265-2520
KULIS AIR BASE..... 249-1499
MILITARY PETROLEUM FUEL LINES..... 552-3760
STATE STORM DRAINS & STREET LIGHTS..... 333-2411



GCI Pedestal Detail

Top of base is to be 2-3 inches above final grade on all pedestals.



GCI Cable Ped Placement

GCI peds are to be set 2'-3' from phone peds opposite of power peds. Where there are no phone peds, GCI peds are to be minimum 6' from power.

NOT TO SCALE

NEW
EXISTING
VAULT

STATE OF ALASKA
49th
DELBERT S. LaRUE
3939-Z
REGISTERED PROFESSIONAL ENGINEER

NOTE:
Offsets given are at every 50m station or 100m station unless otherwise noted

Station offset reference point → GCI

DESIGNED BY
CHECKED BY
DRAFTED BY CJ 1/29/02

SPECIFICATIONS
STANDARDS VIEW ALL
COMPUTER DESIGNATION AUTOCAD-CAROLEE-MARC/MBDR

DRAWN BY: _____ DATE: _____
DESIGNER/PROJECT ENGINEER: _____ JOB #: _____

NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE
0	ISSUED FOR CONSTRUCTION	RAE/5-16-02

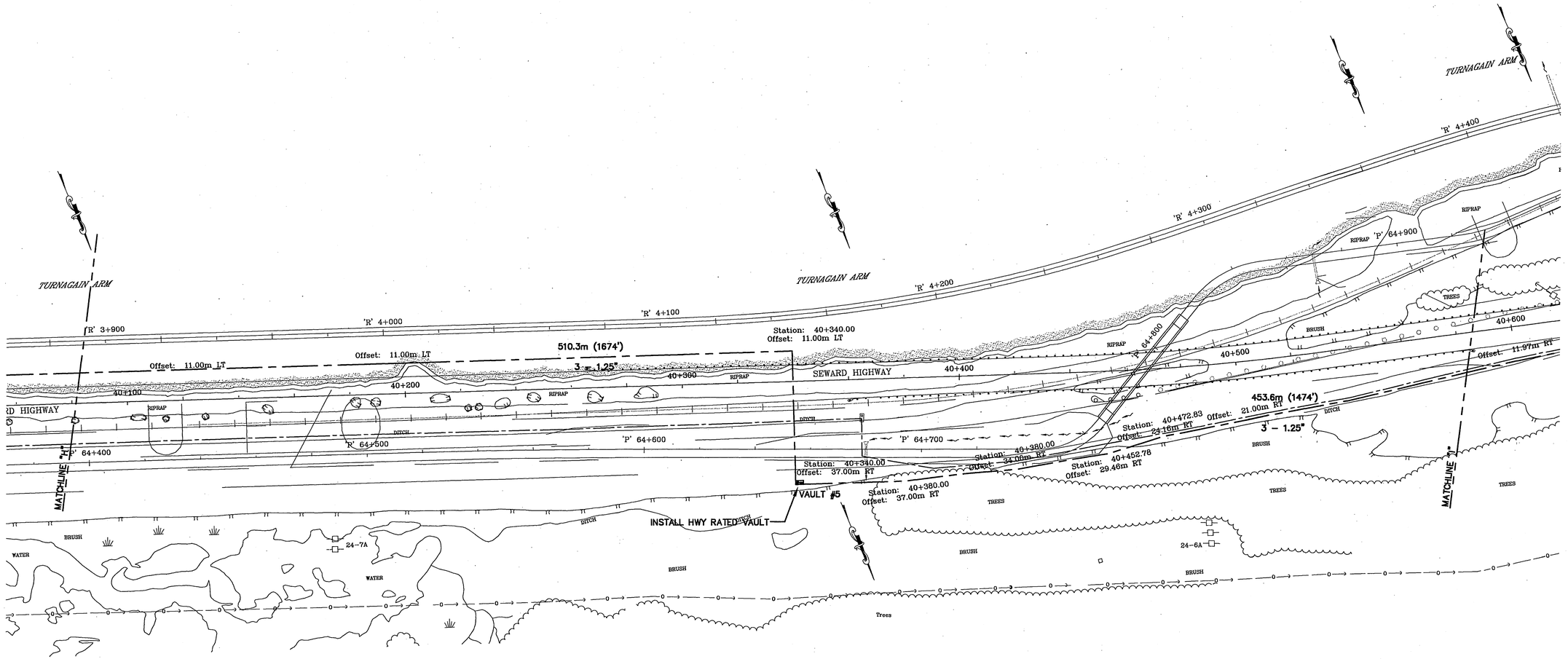
0	× POWER POLE	0	SET ANCHOR	0	AERIAL SUBS EXISTING
0	JOINT USE POLE	0	SIDEWALK ANCHOR	0	AERIAL SUBS POTENTIAL
0	CATV POLE	0	STRUT ANCHOR	0	UG SUBS EXISTING
0	TELEPHONE POLE	0	EXTENSION ARM	0	UG SUBS POTENTIAL
0	CONCRETE POLE	0	AERIAL FOOTAGE	0	MULTI UNIT SUBS
0	△ PRIVATE POLE	0	UG FOOTAGE	0	TOTAL EXISTING SUBS
0	M METAL POLE	0	TOTAL FOOTAGE	0	TOTAL POTENTIAL SUBS
0	EXISTING ANCHOR	0.00	TOTAL MILEAGE	0	COMMERCIAL SUBS

GCI CABLE, INC
5151 Fairbanks Street
Anchorage, Alaska
99503

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	U11	U23

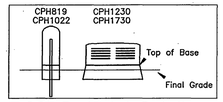


VICINITY MAP

CALL BEFORE YOU DIG!

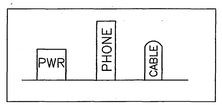
LOCATE CALL CENTER OF ALASKA (LCCA)

ANCHORAGE AREA	278-3121
STATEWIDE	800-478-3121
ALASKA RAILROAD	265-2520
KULIS AIR BASE	249-1499
MILITARY PETROLEUM FUEL LINES	552-3760
STATE STORM DRAINS & STREET LIGHTS	333-2411



GCI Pedestal Detail

Top of base is to be 2-3 inches above final grade on all pedestals.



GCI Cable Ped Placement

GCI peds are to be set 2'-3' from phone peds opposite of power peds. Where there are no phone peds, GCI peds are to be minimum 6' from power.

NOT TO SCALE

NEW

EXISTING

VAULT

STATE OF ALASKA
49th
DELBERT S. LoRUE
3939-K
REGISTERED PROFESSIONAL ENGINEER

NOTE:
Offsets given are at every 50m station or 100m station unless otherwise noted

Station offset reference point → GCI

DESIGNED BY
CHECKED BY
DRAFTED BY CJ 1/29/02

SPECIFICATIONS
STANDARDS
COMPUTER DESIGNATION VIEW ALL
AUTOCAD-CAROLEE-MARC/NBDR

DRAWN BY: _____ DATE: _____
DESIGNER/PROJECT ENGINEER: _____ JOB #: _____

NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE
0	ISSUED FOR CONSTRUCTION	RAE/5-16-02

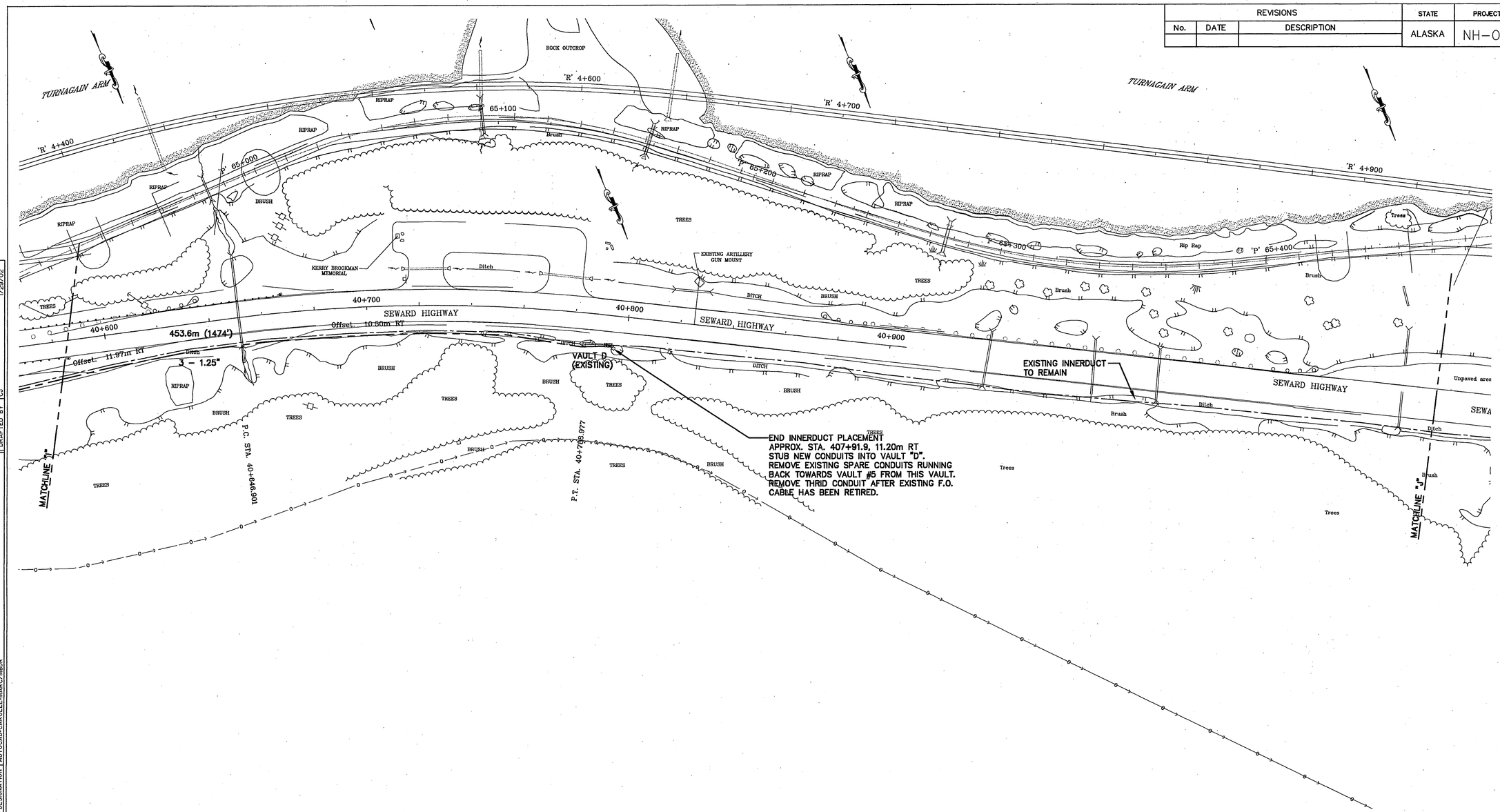
0	POWER POLE	0	SET ANCHOR	0	AERIAL SUBS EXISTING
0	JOINT USE POLE	0	SIDEWALK ANCHOR	0	AERIAL SUBS POTENTIAL
0	CATV POLE	0	STRUT ANCHOR	0	UG SUBS EXISTING
0	TELEPHONE POLE	0	EXTENSION ARM	0	UG SUBS POTENTIAL
0	CONCRETE POLE	0	AERIAL FOOTAGE	0	MULTI UNIT SUBS
0	PRIVATE POLE	0	UG FOOTAGE	0	TOTAL EXISTING SUBS
0	M METAL POLE	0	TOTAL FOOTAGE	0	TOTAL POTENTIAL SUBS
0	EXISTING ANCHOR	0.00	TOTAL MILEAGE	0	COMMERCIAL SUBS

GCI CABLE, INC
5151 Fairbanks Street
Anchorage, Alaska
99503

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	U12	U23

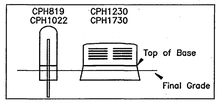


VICINITY MAP

CALL BEFORE YOU DIG!

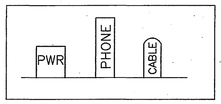
LOCATE CALL CENTER OF ALASKA (LCCA)

ANCHORAGE AREA	278-3121
STATEWIDE	800-478-3121
ALASKA RAILROAD	265-2520
KULIS AIR BASE	249-1499
MILITARY PETROLEUM FUEL LINES	552-3760
STATE STORM DRAINS & STREET LIGHTS	333-2411



GCI Pedestal Detail

Top of base is to be 2-3 inches above final grade on all pedestals.



GCI Cable Ped Placement

GCI peds are to be set 2'-3' from phone peds opposite of power peds. Where there are no phone peds, GCI peds are to be minimum 6' from power.

NOT TO SCALE

NEW

EXISTING

VAULT

STATE OF ALASKA 49th DELBERT S. LaRUE 3939-E REGISTERED PROFESSIONAL ENGINEER

NOTE:
Offsets given are at every 50m station or 100m station unless otherwise noted

Station offset reference point

DESIGNED BY	
CHECKED BY	
DRAFTED BY	CJ
1/29/02	

SPECIFICATIONS	
STANDARDS	VIEW ALL
COMPUTER DESIGNATION	AUTOCAD-CAROLEE-MARC/MBDR

DRAWN BY: _____ DATE: _____

DESIGNER/PROJECT ENGINEER: _____ JOB #: _____

NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE
0	ISSUED FOR CONSTRUCTION	RAE/5-16-02

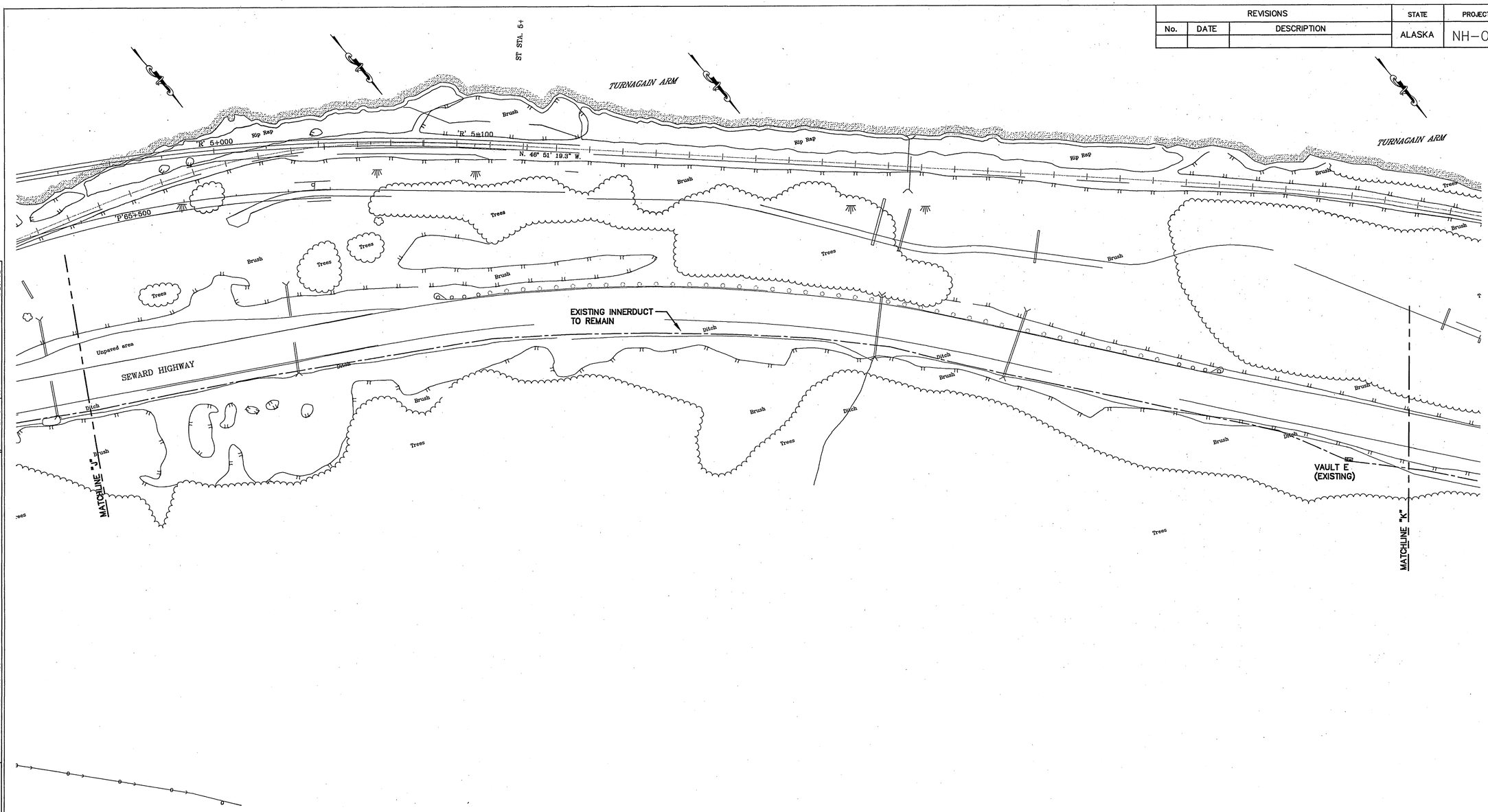
0	POWER POLE	0	SET ANCHOR	0	AERIAL SUBS EXISTING
0	JOINT USE POLE	0	SIDEWALK ANCHOR	0	AERIAL SUBS POTENTIAL
0	CATV POLE	0	STRUT ANCHOR	0	UG SUBS EXISTING
0	TELEPHONE POLE	0	EXTENSION ARM	0	UG SUBS POTENTIAL
0	CONCRETE POLE	0	AERIAL FOOTAGE	0	MULTI UNIT SUBS
0	PRIVATE POLE	0	UG FOOTAGE	0	TOTAL EXISTING SUBS
0	METAL POLE	0	TOTAL FOOTAGE	0	TOTAL POTENTIAL SUBS
0	EXISTING ANCHOR	0.00	TOTAL MILEAGE	0	COMMERCIAL SUBS

GCI CABLE, INC
5151 Fairbanks Street
Anchorage, Alaska
99503

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	U13	U23

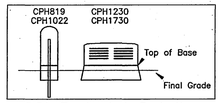


VICINITY MAP

CALL BEFORE YOU DIG!

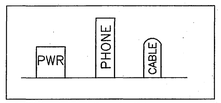
LOCATE CALL CENTER OF ALASKA (LCCA)

ANCHORAGE AREA	278–3121
STATEWIDE	800–478–3121
ALASKA RAILROAD	265–2520
KULIS AIR BASE	249–1499
MILITARY PETROLEUM FUEL LINES	552–3760
STATE STORM DRAINS & STREET LIGHTS	333–2411



GCI Pedestal Detail

Top of base is to be 2–3 inches above final grade on all pedestals.



GCI Cable Ped Placement

GCI peds are to be set 2'–3' from phone peds opposite of power peds. Where there are no phone peds, GCI peds are to be minimum 6' from power.

NOT TO SCALE

NEW

EXISTING

VAULT

DESIGNED BY	
CHECKED BY	
DRAFTED BY	CJ
1/29/02	

SPECIFICATIONS	
STANDARDS	VIEW ALL
COMPUTER DESIGNATION	AUTOCAD-CARO-LEE-MARC/MBDR

STATE OF ALASKA 49th DELBERT S. LaRUE 3939-E REGISTERED PROFESSIONAL ENGINEER

NOTE:
Offsets given are at every 50m station or 100m station unless otherwise noted

Station offset reference point → GCI

DRAWN BY: _____ DATE: _____
DESIGNER/PROJECT ENGINEER: _____ JOB #: _____

NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE
0	ISSUED FOR CONSTRUCTION	RAE/5–16–02

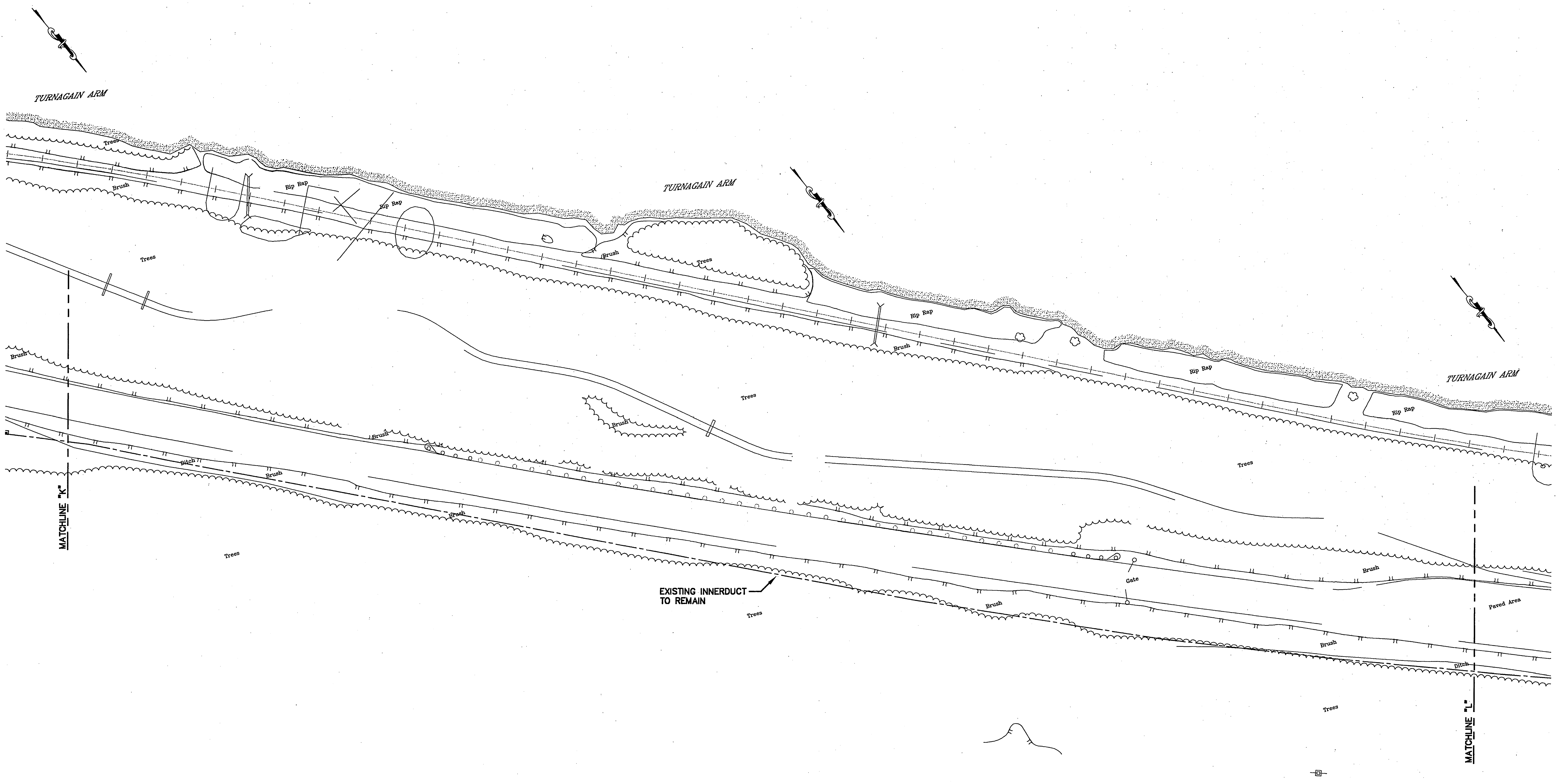
0	× POWER POLE	0	SET ANCHOR	0	AERIAL SUBS EXISTING
0	⊗ JOINT USE POLE	0	SIDEWALK ANCHOR	0	AERIAL SUBS POTENTIAL
0	CATV POLE	0	STRUT ANCHOR	0	UG SUBS EXISTING
0	○ TELEPHONE POLE	0	EXTENSION ARM	0	UG SUBS POTENTIAL
0	○ CONCRETE POLE	0	AERIAL FOOTAGE	0	MULTI UNIT SUBS
0	△ PRIVATE POLE	0	UG FOOTAGE	0	TOTAL EXISTING SUBS
0	○M METAL POLE	0	TOTAL FOOTAGE	0	TOTAL POTENTIAL SUBS
0	EXISTING ANCHOR	0.00	TOTAL MILEAGE	0	COMMERCIAL SUBS

GCI CABLE, INC
5151 Fairbanks Street
Anchorage, Alaska
99503

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	U14	U23



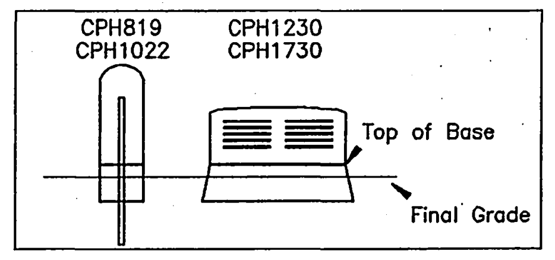
SPECIFICATIONS	
STANDARDS	VIEW ALL
COMPUTER DESIGNATION	AUTOCAD-CAROLEE-MARC/MBDR

DESIGNED BY		
CHECKED BY		
DRAFTED BY	CJ	1/29/02

VICINITY MAP

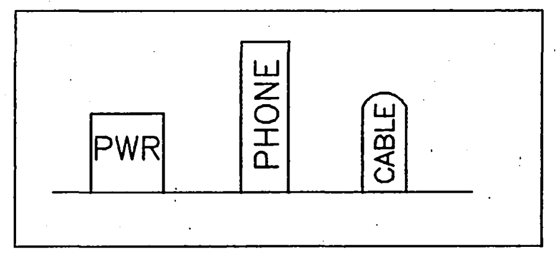
CALL BEFORE YOU DIG!

LOCATE CALL CENTER OF ALASKA (LCCA)	
ANCHORAGE AREA	278-3121
STATEWIDE	800-478-3121
ALASKA RAILROAD	265-2520
KULIS AIR BASE	249-1499
MILITARY PETROLEUM FUEL LINES	552-3760
STATE STORM DRAINS & STREET LIGHTS	333-2411



GCI Pedestal Detail

Top of base is to be 2-3 inches above final grade on all pedestals.



GCI Cable Ped Placement

GCI peds are to be set 2'-3' from phone peds opposite of power peds. Where there are no phone peds, GCI peds are to be minimum 6' from power.

NOT TO SCALE

NEW

EXISTING

VAULT

DELBERT S. LaRUE
3939-E
5/17/02

NOTE:
Offsets given are at every 50m station or 100m station unless otherwise noted

Station offset reference point → O GCI

DRAWN BY: DATE:
DESIGNER/PROJECT ENGINEER: JOB #:

NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE
0	ISSUED FOR CONSTRUCTION	RAE/5-16-02

0	× POWER POLE	0	SET ANCHOR	0	AERIAL SUBS EXISTING
0	⊗ JOINT USE POLE	0	SIDEWALK ANCHOR	0	AERIAL SUBS POTENTIAL
0	● CATV POLE	0	STRUT ANCHOR	0	UG SUBS EXISTING
0	○ TELEPHONE POLE	0	EXTENSION ARM	0	UG SUBS POTENTIAL
0	⬡ CONCRETE POLE	0	AERIAL FOOTAGE	0	MULTI UNIT SUBS
0	△ PRIVATE POLE	0	UG FOOTAGE	0	TOTAL EXISTING SUBS
0	○M METAL POLE	0	TOTAL FOOTAGE	0	TOTAL POTENTIAL SUBS
0	EXISTING ANCHOR	0.00	TOTAL MILEAGE	0	COMMERCIAL SUBS

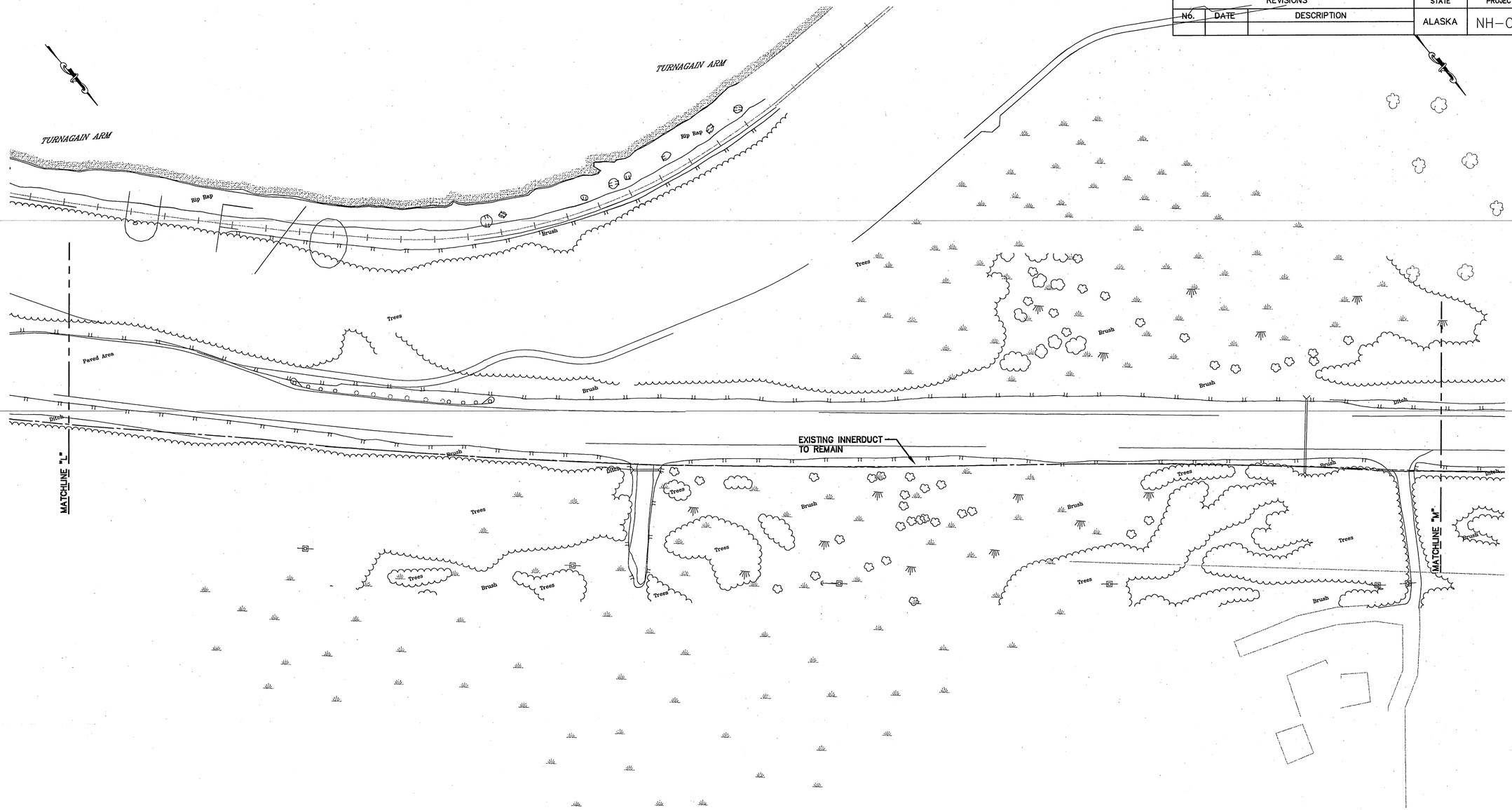
GCI CABLE,INC

5151 Fairbanks Street
Anchorage, Alaska
99503

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND RECREATIONAL IMPROVEMENTS

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	U15	U23

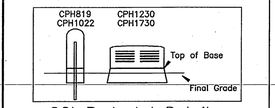


VICINITY MAP

CALL BEFORE YOU DIG!

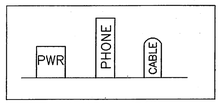
LOCATE CALL CENTER OF ALASKA (LCCA)

ANCHORAGE AREA	278-3121
STATEWIDE	800-478-3121
ALASKA RAILROAD	265-2520
KULIS AIR BASE	249-1499
MILITARY PETROLEUM FUEL LINES	552-3760
STATE STORM DRAINS & STREET LIGHTS	333-2411



GCI Pedestal Detail

Top of base is to be 2-3 inches above final grade on all pedestals.



GCI Cable Ped Placement

GCI peds are to be set 2'-3' from phone peds opposite of power peds. Where there are no phone peds, GCI peds are to be minimum 6' from power.

NOT TO SCALE

NEW

EXISTING

VAULT

STATE OF ALASKA
49th
DELBERT S. LaRUE
3939-S
REGISTERED PROFESSIONAL ENGINEER

NOTE:
Offsets given are at every 50m station or 100m station unless otherwise noted

Station offset reference point → O GCI

DESIGNED BY	
CHECKED BY	
DRAFTED BY	CJ
SPECIFICATIONS	1/29/02
STANDARDS	
COMPUTER DESIGNATION	VIEW ALL
	AUTOCAD-CAROLEE-MARC/MBDR

DRAWN BY: _____ DATE: _____
DESIGNER/PROJECT ENGINEER: _____ JOB #: _____

NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE
0	ISSUED FOR CONSTRUCTION	RAE/5-16-02

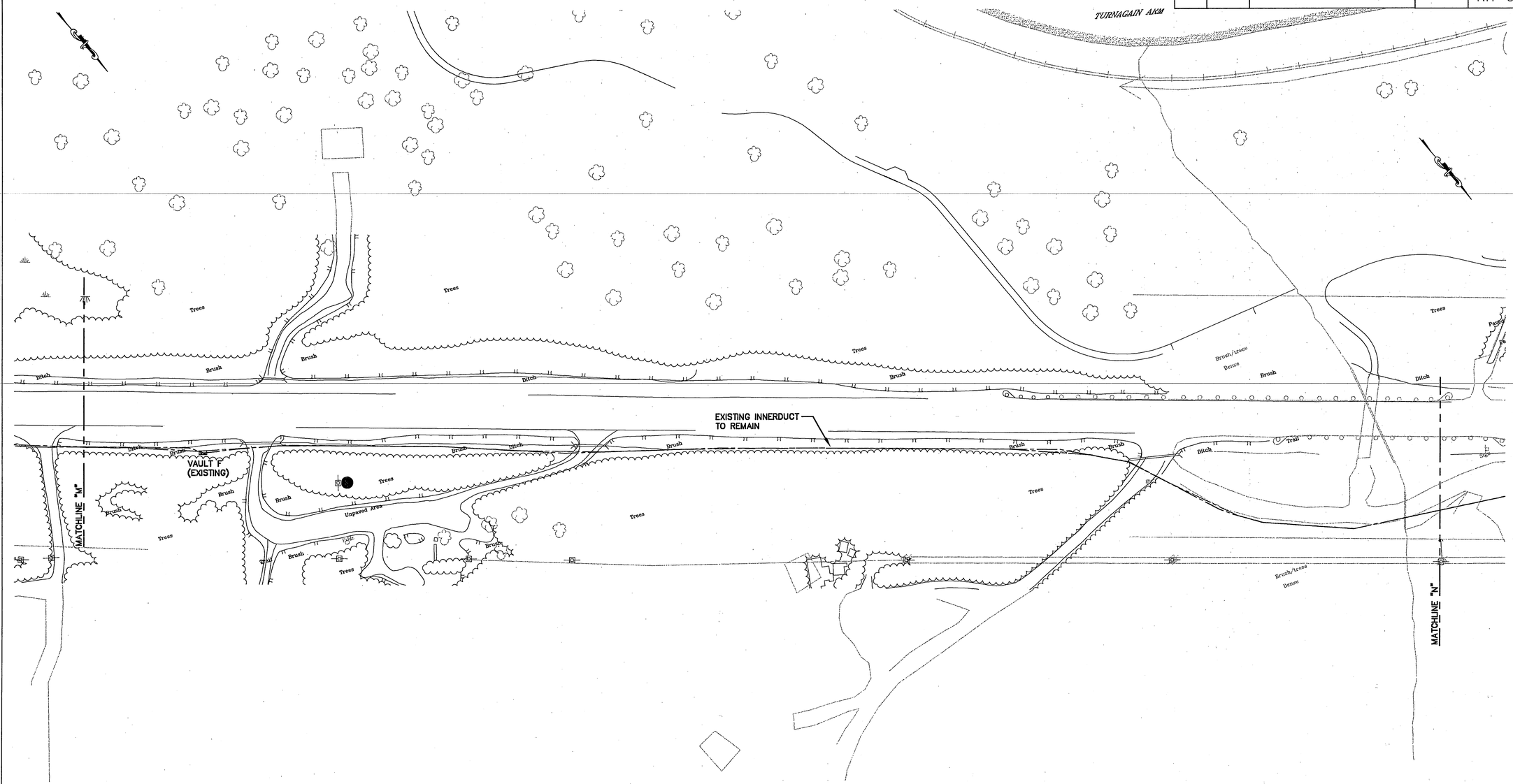
0	×	POWER POLE	0		SET ANCHOR	0	AERIAL SUBS EXISTING
0	⊗	JOINT USE POLE	0		SIDEWALK ANCHOR	0	AERIAL SUBS POTENTIAL
0		CATV POLE	0		STRUT ANCHOR	0	UG SUBS EXISTING
0	○	TELEPHONE POLE	0		EXTENSION ARM	0	UG SUBS POTENTIAL
0	○	CONCRETE POLE	0		AERIAL FOOTAGE	0	MULTI UNIT SUBS
0	△	PRIVATE POLE	0		UG FOOTAGE	0	TOTAL EXISTING SUBS
0	○M	METAL POLE	0		TOTAL FOOTAGE	0	TOTAL POTENTIAL SUBS
0		EXISTING ANCHOR	0.00		TOTAL MILEAGE	0	COMMERCIAL SUBS

GCI CABLE, INC
5151 Fairbanks Street
Anchorage, Alaska
99503

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	U16	U23

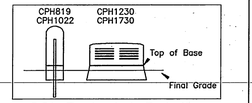


VICINITY MAP

CALL BEFORE YOU DIG!

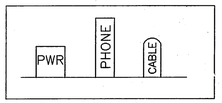
LOCATE CALL CENTER OF ALASKA (LCCA)

ANCHORAGE AREA	278-3121
STATEWIDE	800-478-3121
ALASKA RAILROAD	265-2520
KULIS AIR BASE	249-1499
MILITARY PETROLEUM FUEL LINES	552-3760
STATE STORM DRAINS & STREET LIGHTS	333-2411



GCI Pedestal Detail

Top of base is to be 2-3 inches above final grade on all pedestals.



GCI Cable Ped Placement

GCI peds are to be set 2'-3' from phone peds opposite of power peds. Where there are no phone peds, GCI peds are to be minimum 6' from power.

NOT TO SCALE

NEW

EXISTING

VAULT

NOTE:
Offsets given are at every 50m station or 100m station unless otherwise noted

Station offset reference point → GCI

STATE OF ALASKA
49th
DELBERT S. LaRUE
3939-E
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY
CHECKED BY
DRAFTED BY CJ 1/29/02

SPECIFICATIONS
STANDARDS
COMPUTER DESIGNATION VIEW ALL AUTOCAD-CAROLEE-MARC/MBDR

DRAWN BY: _____ DATE: _____
DESIGNER/PROJECT ENGINEER: _____ JOB #: _____

NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE
0	ISSUED FOR CONSTRUCTION	RAE/5-16-02

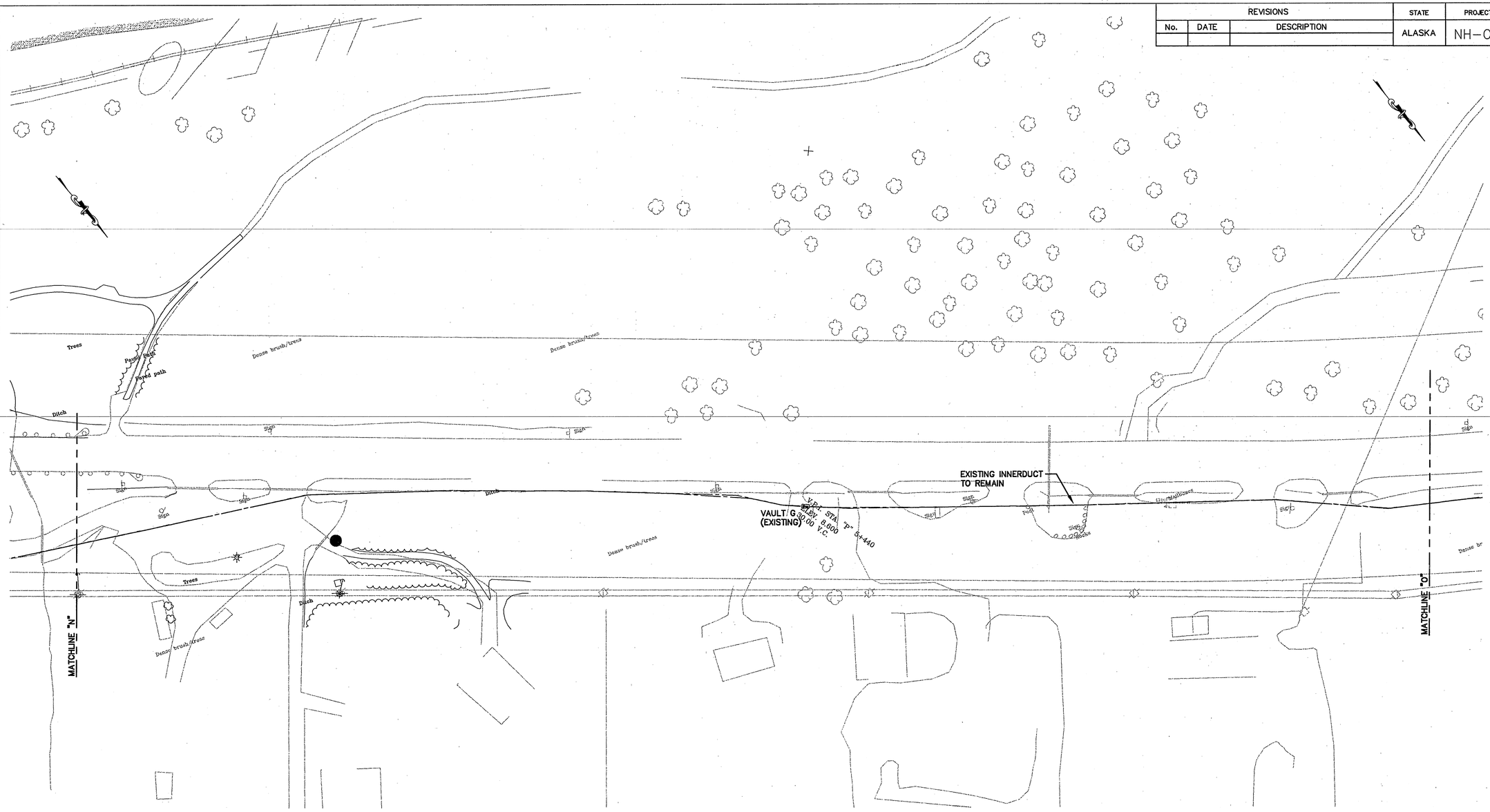
0	POWER POLE	0	SET ANCHOR	0	AERIAL SUBS EXISTING
0	JOINT USE POLE	0	SIDEWALK ANCHOR	0	AERIAL SUBS POTENTIAL
0	CATV POLE	0	STRUT ANCHOR	0	UG SUBS EXISTING
0	TELEPHONE POLE	0	EXTENSION ARM	0	UG SUBS POTENTIAL
0	CONCRETE POLE	0	AERIAL FOOTAGE	0	MULTI UNIT SUBS
0	PRIVATE POLE	0	UG FOOTAGE	0	TOTAL EXISTING SUBS
0	METAL POLE	0	TOTAL FOOTAGE	0	TOTAL POTENTIAL SUBS
0	EXISTING ANCHOR	0.00	TOTAL MILEAGE	0	COMMERCIAL SUBS

GCI CABLE, INC
5151 Fairbanks Street
Anchorage, Alaska
99503

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	U17	U23

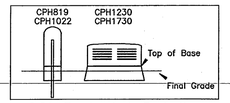


VICINITY MAP

CALL BEFORE YOU DIG!

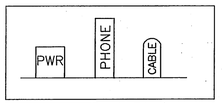
LOCATE CALL CENTER OF ALASKA (LCCA)

ANCHORAGE AREA	278-3121
STATEWIDE	800-478-3121
ALASKA RAILROAD	265-2520
KULIS AIR BASE	249-1499
MILITARY PETROLEUM FUEL LINES	552-3760
STATE STORM DRAINS & STREET LIGHTS	333-2411



GCI Pedestal Detail

Top of base is to be 2-3 inches above final grade on all pedestals.



GCI Cable Ped Placement

GCI peds are to be set 2'-3' from phone peds opposite of power peds. Where there are no phone peds, GCI peds are to be minimum 6' from power.

NOT TO SCALE

NEW

EXISTING

VAULT

STATE OF ALASKA
49th
DELBERT S. LoRUE
9939
REGISTERED PROFESSIONAL ENGINEER

NOTE:
Offsets given are at every 50m station or 100m station unless otherwise noted

Station offset reference point → GCI

DESIGNED BY
CHECKED BY
DRAFTED BY CJ 1/29/02

SPECIFICATIONS
STANDARDS
COMPUTER DESIGNATION AUTOCAD-CAROLEE-MARC/NBDR
VIEW ALL

DRAWN BY: _____ DATE: _____
DESIGNER/PROJECT ENGINEER: _____ JOB #: _____

NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE
0	ISSUED FOR CONSTRUCTION	RAE/5-16-02

0	POWER POLE	0	SET ANCHOR	0	AERIAL SUBS EXISTING
0	JOINT USE POLE	0	SIDEWALK ANCHOR	0	AERIAL SUBS POTENTIAL
0	CATV POLE	0	STRUT ANCHOR	0	UG SUBS EXISTING
0	TELEPHONE POLE	0	EXTENSION ARM	0	UG SUBS POTENTIAL
0	CONCRETE POLE	0	AERIAL FOOTAGE	0	MULTI UNIT SUBS
0	PRIVATE POLE	0	UG FOOTAGE	0	TOTAL EXISTING SUBS
0	METAL POLE	0	TOTAL FOOTAGE	0	TOTAL POTENTIAL SUBS
0	EXISTING ANCHOR	0.00	TOTAL MILEAGE	0	COMMERCIAL SUBS

GCI CABLE,INC
5151 Fairbanks Street
Anchorage, Alaska
99503

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

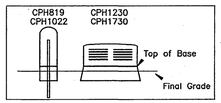
SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	U18	U23

VICINITY MAP

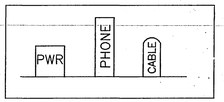
CALL BEFORE YOU DIG!

LOCATE CALL CENTER OF ALASKA (LCCA)
ANCHORAGE AREA 278-3121
STATEWIDE 800-478-3121
ALASKA RAILROAD 265-2520
KULIS AIR BASE 249-1499
MILITARY PETROLEUM FUEL LINES 552-3760
STATE STORM DRAINS & STREET LIGHTS 333-2411



GCI Pedestal Detail

Top of base is to be 2-3 inches above final grade on all pedestals.



GCI Cable Ped Placement

GCI peds are to be set 2'-3' from phone peds opposite of power peds. Where there are no phone peds, GCI peds are to be minimum 6' from power.

NOT TO SCALE

NEW
EXISTING
VAULT

NOTE:
Offsets given are at every 50m station or 100m station unless otherwise noted

Station offset reference point → O GCI

STATE OF ALASKA
49th
DELBERT S. LaRUE
3939-E
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY	
CHECKED BY	
DRAFTED BY	CJ 1/29/02
SPECIFICATIONS	
STANDARDS	VIEW ALL
COMPUTER DESIGNATION	AUTOCAD-CAROLEE-MARC/MBDR

DRAWN BY: _____ DATE: _____
DESIGNER/PROJECT ENGINEER: _____ JOB #: _____

NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE
0	ISSUED FOR CONSTRUCTION	RAE/5-16-02

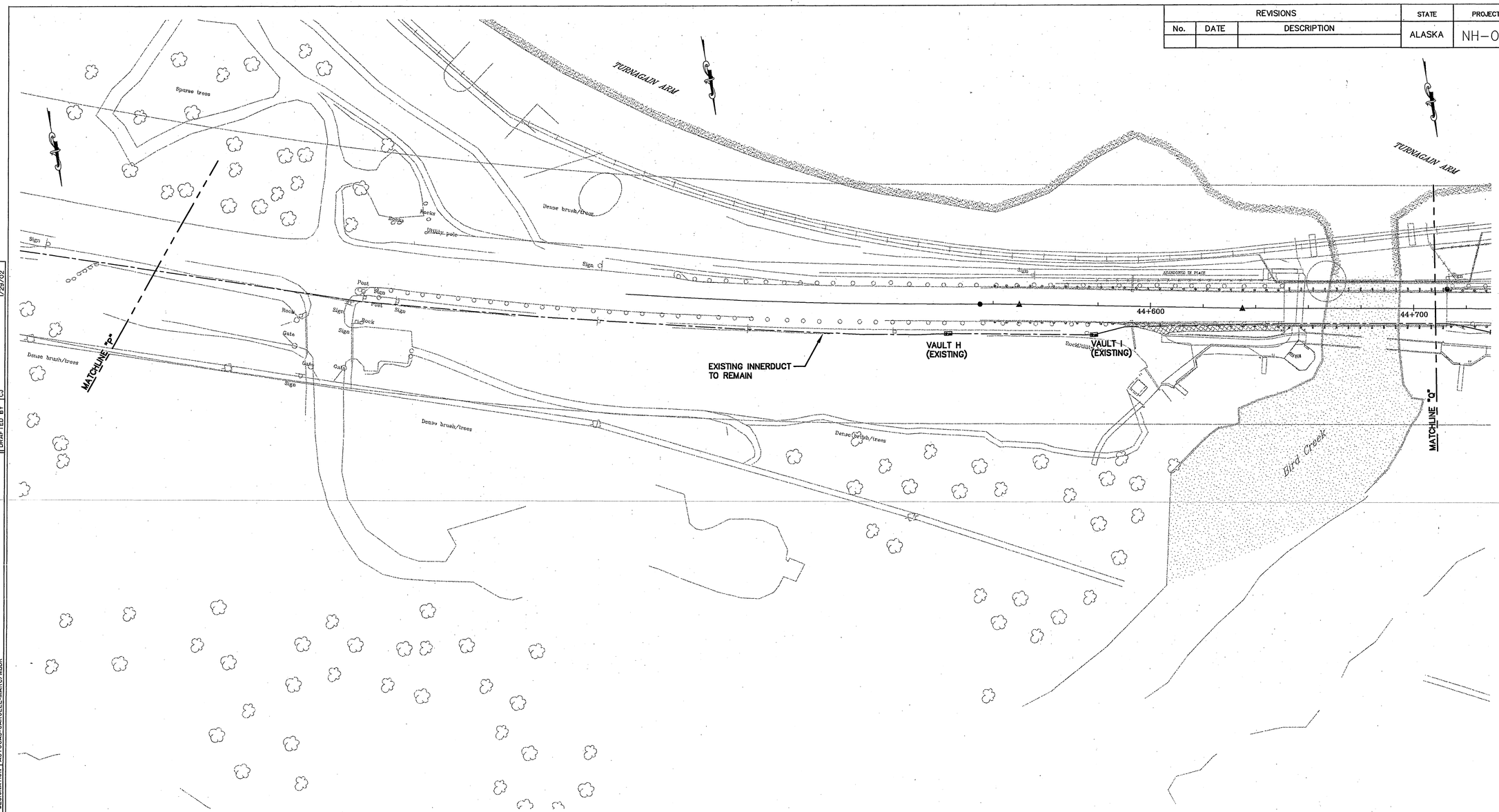
0	POWER POLE	0	SET ANCHOR	0	AERIAL SUBS EXISTING
0	JOINT USE POLE	0	SIDEWALK ANCHOR	0	AERIAL SUBS POTENTIAL
0	CATV POLE	0	STRUT ANCHOR	0	UG SUBS EXISTING
0	TELEPHONE POLE	0	EXTENSION ARM	0	UG SUBS POTENTIAL
0	CONCRETE POLE	0	AERIAL FOOTAGE	0	MULTI UNIT SUBS
0	PRIVATE POLE	0	UG FOOTAGE	0	TOTAL EXISTING SUBS
0	M METAL POLE	0	TOTAL FOOTAGE	0	TOTAL POTENTIAL SUBS
0	EXISTING ANCHOR	0.00	TOTAL MILEAGE	0	COMMERCIAL SUBS

GCI CABLE, INC
5151 Fairbanks Street
Anchorage, Alaska
99503

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	NH-0A3-1(28)	2002	U19	U23

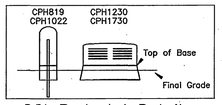


VICINITY MAP

CALL BEFORE YOU DIG!

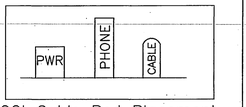
LOCATE CALL CENTER OF ALASKA (LCCA)

ANCHORAGE AREA	278-3121
STATEWIDE	800-478-3121
ALASKA RAILROAD	265-2520
KULIS AIR BASE	249-1499
MILITARY PETROLEUM FUEL LINES	552-3760
STATE STORM DRAINS & STREET LIGHTS	333-2411



GCI Pedestal Detail

Top of base is to be 2-3 inches above final grade on all pedestals.



GCI Cable Ped Placement

GCI peds are to be set 2'-3' from phone peds opposite of power peds. Where there are no phone peds, GCI peds are to be minimum 6' from power.

NOT TO SCALE

NEW

EXISTING

VAULT

NOTE:
Offsets given are at every 50m station or 100m station unless otherwise noted

Station offset reference point → GCI

STATE OF ALASKA 49th DELBERT S. LaRUE 3979-S REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY
CHECKED BY
DRAWN BY CJ 1/29/02

SPECIFICATIONS
STANDARDS VIEW ALL
COMPUTER DESIGNATION AUTOCAD-CAROLEE-MARC/MBDR

DRAWN BY: DATE:
DESIGNER/PROJECT ENGINEER: JOB #:

NO.	DESIGN/CONSTRUCTION/ASBUILT REVISION	DWN BY/DATE
0	ISSUED FOR CONSTRUCTION	RAE/5-16-02

0	POWER POLE	0	SET ANCHOR	0	AERIAL SUBS EXISTING
0	JOINT USE POLE	0	SIDEWALK ANCHOR	0	AERIAL SUBS POTENTIAL
0	CATV POLE	0	STRUT ANCHOR	0	UG SUBS EXISTING
0	TELEPHONE POLE	0	EXTENSION ARM	0	UG SUBS POTENTIAL
0	CONCRETE POLE	0	AERIAL FOOTAGE	0	MULTI UNIT SUBS
0	PRIVATE POLE	0	UG FOOTAGE	0	TOTAL EXISTING SUBS
0	M METAL POLE	0	TOTAL FOOTAGE	0	TOTAL POTENTIAL SUBS
0	EXISTING ANCHOR	0.00	TOTAL MILEAGE	0	COMMERCIAL SUBS

GCI CABLE, INC
5151 Fairbanks Street
Anchorage, Alaska
99503

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SEWARD HIGHWAY
MP 96 TO MP 102
SAFETY, ROADWAY AND
RECREATIONAL IMPROVEMENTS