STATE	PROJECT	SHEET NUMBER
AK	PRA-DENA 10(27)	A.1

U. S. DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
DENALI NATIONAL PARK AND PRESERVE

PLANS FOR PROPOSED PROJECT

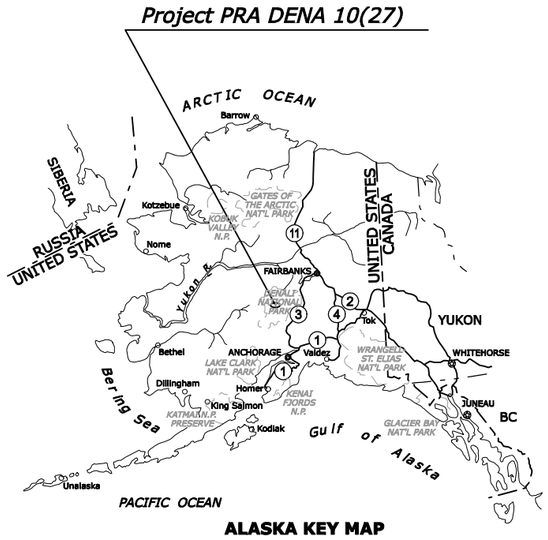
AK PRA-DENA 10(27)

NPS PMIS NO. 101156A, B, C, & D

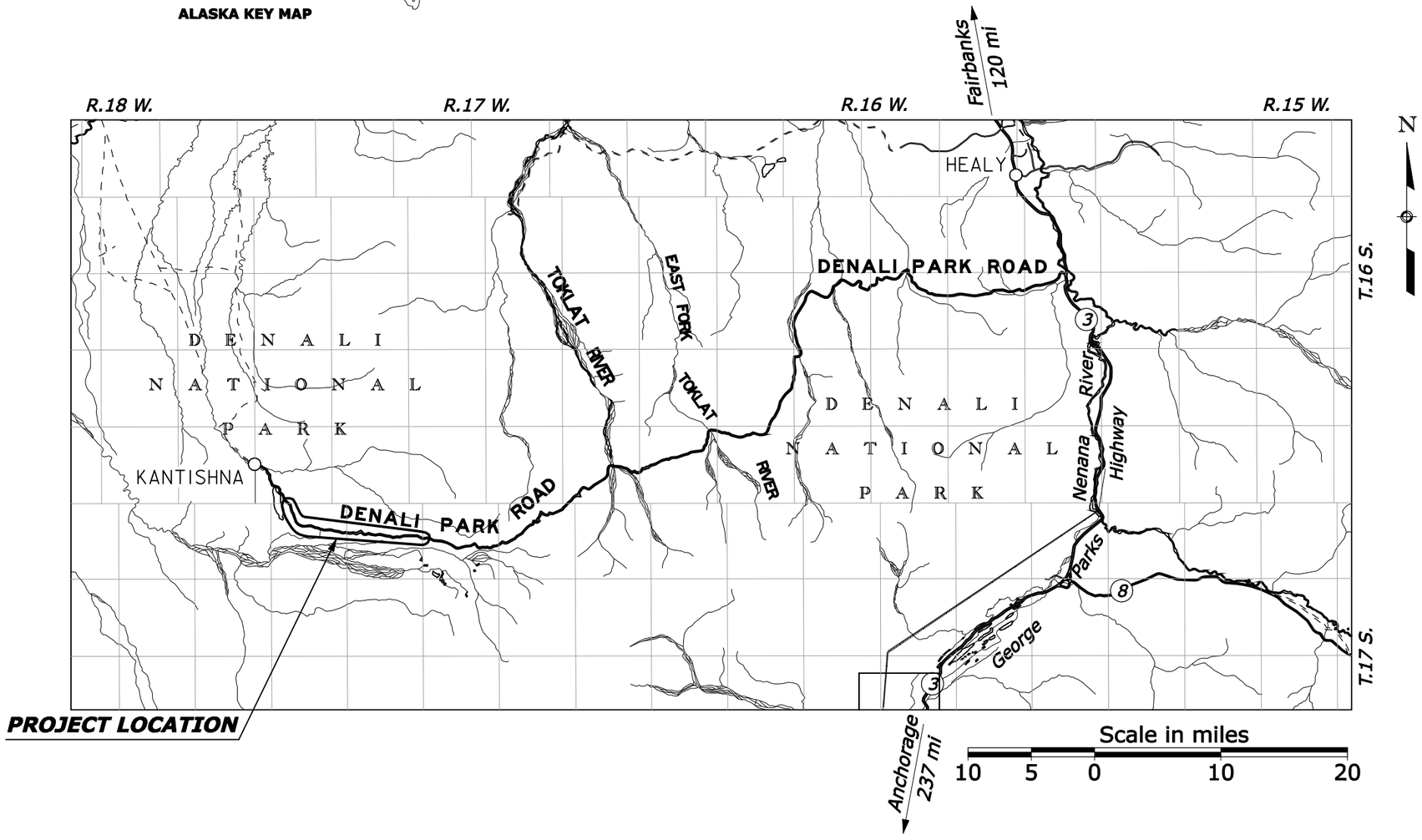
REHAB UNSAFE ROAD SECTIONS ALONG MP 80-84 OF THE DENALI PARK ROAD

DENALI BOROUGH, ALASKA

LENGTH 9.030 MILES



ALASKA KEY MAP



FEDERAL LANDS HIGHWAY
COMMITMENT TO EXCELLENCE

PLANS PREPARED BY

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

WESTERN FEDERAL LANDS HIGHWAY DIVISION
VANCOUVER, WASHINGTON

NATIONAL PARK SERVICE
Department of the Interior

TYPE OF CONSTRUCTION:

Grading, Base, Drainage, Stabilization

DESIGN DESIGNATION:

ADT (2006)	<150
ADT (2026)	<400
V	30 mph
e (max.)	6%

SPECIFICATION:

Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects, FP-03 English Units

SEE SHEET A.2 FOR INDEX TO SHEETS

RECOMMENDED:

Director of Project Delivery, Western Federal Lands Highway Division — DATE

Denali Park Superintendent, National Park Service — DATE

APPROVED:

Regional Director, Alaska Region, National Park Service — DATE

FINAL REVIEW

NPS Pkg. No. 101156A, B, C, &D NPS Drwg. Nos. 184/80251

Date | Checked by: | --/---- | Designed by: | 23-FEB-2009 3:01PM | Bill McQuiston | IP_PWP:dms04341\dena1027aa.dgn [US_Int2D]

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A.1 TITLE SHEET
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A.4 VICINITY MAP

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NPS Pkg. No. 101156A, B, C, &D NPS Drwg. Nos. 184/80251

INDEX TO SHEETS

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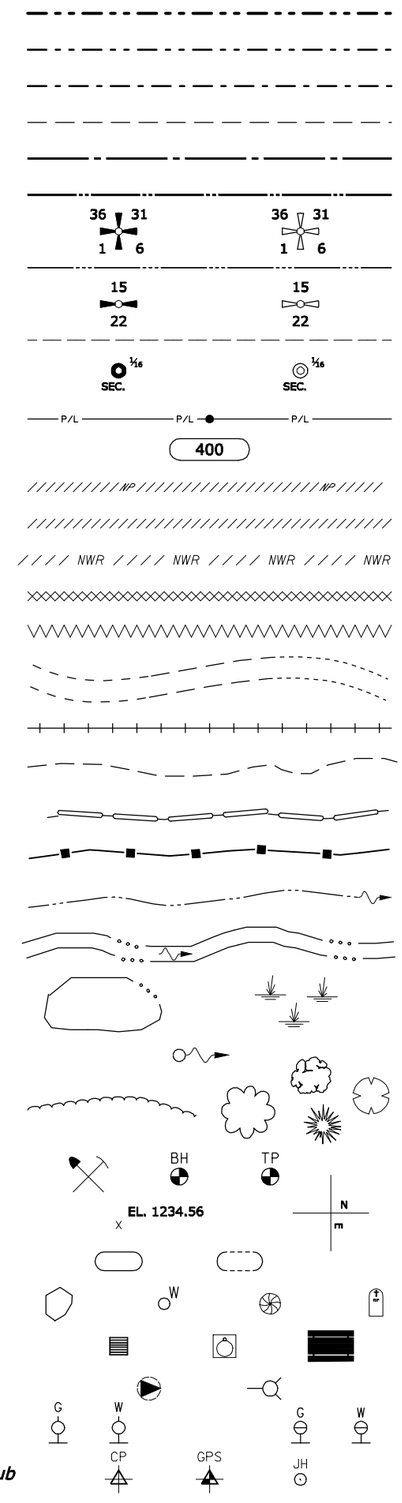
Δ	total central angle
Δc	curve central angle
Ø	diameter
θs	spiral central angle
abut.	abutment
ADT	average daily traffic
AH	ahead
appr.	approach
BK	back
BM	bench mark
BP	balance point
br.	bridge
brg.	bearing
cc or c. to c.	center to center
℄	centerline
clr.	clear
CMP	corrugated metal pipe
col.	column
conc.	concrete
conn.	connection
constr. jt.	construction joint
cont.	continuous
CS	point of curve to spiral
ctrs.	centers
CUFT	cubic foot (feet)
culv.	culvert
CUYD	cubic yard(s)
D	diameter
DHV	design hourly volume
dia.	diameter
diag.	diagonal
diaph.	diaphragm
dist.	distance
drwg(s).	drawing(s)
E	east
e	superelevation rate
El. 94.16 ft	elevation with number
elev.	elevation
emb.	embankment
EP	edge of pavement
EQ or eq.	equation
ER	edge of road
EW	edge of water
exc.	excavation
exp. jt.	expansion joint
fin.	finish
flg.	flange
ft2	square foot
ft3	cubic foot (feet)
ftg.	footing
ga.	gage (gauge)
galv.	galvanized
hdwl.	headwall
hex.	hexagon
HW	high water
ID	inside diameter
jt.	joint
L	length of curve
lam.	lamination
lat.	latitude
LNFT	linear foot (feet)
long.	longitudinal
LPSM	lump sum
Ls	length of spiral
lt. or LT	left
LW	low water
M.L.	main line
M.P.	mile post
matl.	material
max.	maximum
MGAL	thousand gallon
min.	minimum
mon.	monument
N	north
NC	normal crown
o. c.	on center
o. to o.	out to out
OD	outside diameter
OG	original ground
PC	point of curve
PCC	point of compound curve
PCS	point of curve to spiral
PI	point of intersection
pl.	plate
POC	point on curve
POS	point on spiral
POT	point on tangent
PS	point of tangent to spiral
PSC	point of spiral to curve
PST	point of spiral to tangent
PT	point of tangent
pvmt.	pavement
R	radius
R.	range
R/W	right-of-way
rdwy.	roadway
reinf.	reinforcement
reqd.	required
rt. or RT	right
rte.	route
S	south
SADT	seasonal average daily traffic
SC	point of spiral to curve
sec.	section
shldr.	shoulder
SLRY	slurry unit
spa.	spacing, spaces or spaced
SQFT	square foot
SQYD	square yard
SRS	point of spiral to reverse spiral
SS	point of spiral to spiral (no curve)
ST	point of spiral to tangent
STA, Sta.	station
std.	standard
stgr.	stringer
stiff.	stiffener
struc.	structural
STS	point of spiral to tangent spiral
sym.	symmetrical
T	tangent distance
T.	township
TBM	temporary bench mark
thd.	thread
TS	point of tangent to spiral
Ts	tangent distance (spiraled curve)
typ.	typical
V	design speed
vph	vehicles per hour
VPI	vertical point of intersection
W	west
yd2	square yard
yd3	cubic yard(s)

NOTE:

1. Other symbols used in the plans will be shown in a legend on the appropriate plan sheet.

National Boundary
State Boundary
County Boundary
City Boundary
Township or Range Line
Section Line
Section Corner (Found, Projected)
¼ Section Line
¼ Section Corner (Found, Projected)
1/16 Section Line
1/16 Section Corner (Found, Projected)
Property Line w/Found Property Corner
Parcel Number
National Park Boundary
National Forest Boundary
National Wildlife Refuge Boundary
BLM Lands Boundary
Indian Reservation Boundary
Existing Roadway (Road, Paved, Gravel)
Railroad
Trail
Wattle
Silt Fence
Intermittent Drainage or Small Creek
Large Creek or River
Lake, Pond or Reservoir; Marshland
Spring or Seep
Treeline; Individual Trees
Material Source; Bore Hole; Test Pit
Spot Elevation; Coordinate Grid Tick
Above Ground Tank; Underground Tank
Boulder; Well; Satellite Dish; Grave
Cooking Grate; Garbage Can; Picnic Table
Flagpole; Fire Hydrant
Gas & Water Meter; Gas & Water Valve
Control Point (Terestrial and GPS); Jump Hub



STATE	PROJECT	SHEET NUMBER
AK	PRA-DENA 10(27)	A.3

North Arrow

	EXISTING	PROPOSED
Slope Stake Limits: Top of Cut		
Toe of Fill		
Transition		
Fence		
Gate with Fence		
Cattleguard		
Guardrail		
Concrete Barrier		
Retaining Wall	wall face	
Signs (Single, double post; portable)		
Delineators		
Pipe Culvert (arrow shows flow)		
Pipe Culvert with End Section		
Pipe Culvert with Headwall		
Pipe Culvert with Drop Inlet	DI	DI
Box Culvert		
Underdrain	UD	UD
Overhead/Above Ground Utilities	P	P
Underground Utilities	W	W

FM = force main, FO = fiber optic, G = gas, IRR = irrigation, O = oil, P = power, SA= sanitary sewer, SD = storm drain, SS = storm sewer, STEAM = steam, T = telephone, TV = CATV, W = water

Poles (Power, Telephone, Joint Use, Light, Support w/Anchor)

Miscellaneous Utility Features

EM = electric meter, T = telephone pedestal, TV = CATV pedestal, UP = transformer or junction box, WF = water fountain

Building		
Right-of-Way Line with Monument	R/W	R/W
Permanent Easement	P/E	P/E
Construction Easement	- no symbol -	C/E

Riprap

NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
WESTERN FEDERAL LANDS HIGHWAY DIVISION

U.S. CUSTOMARY DETAIL

PLAN SYMBOLS AND ABBREVIATIONS

DETAIL APPROVED FOR USE 11/2001

REVISED: 9/2005
DRAFT: 1/2007

DETAIL W101-1

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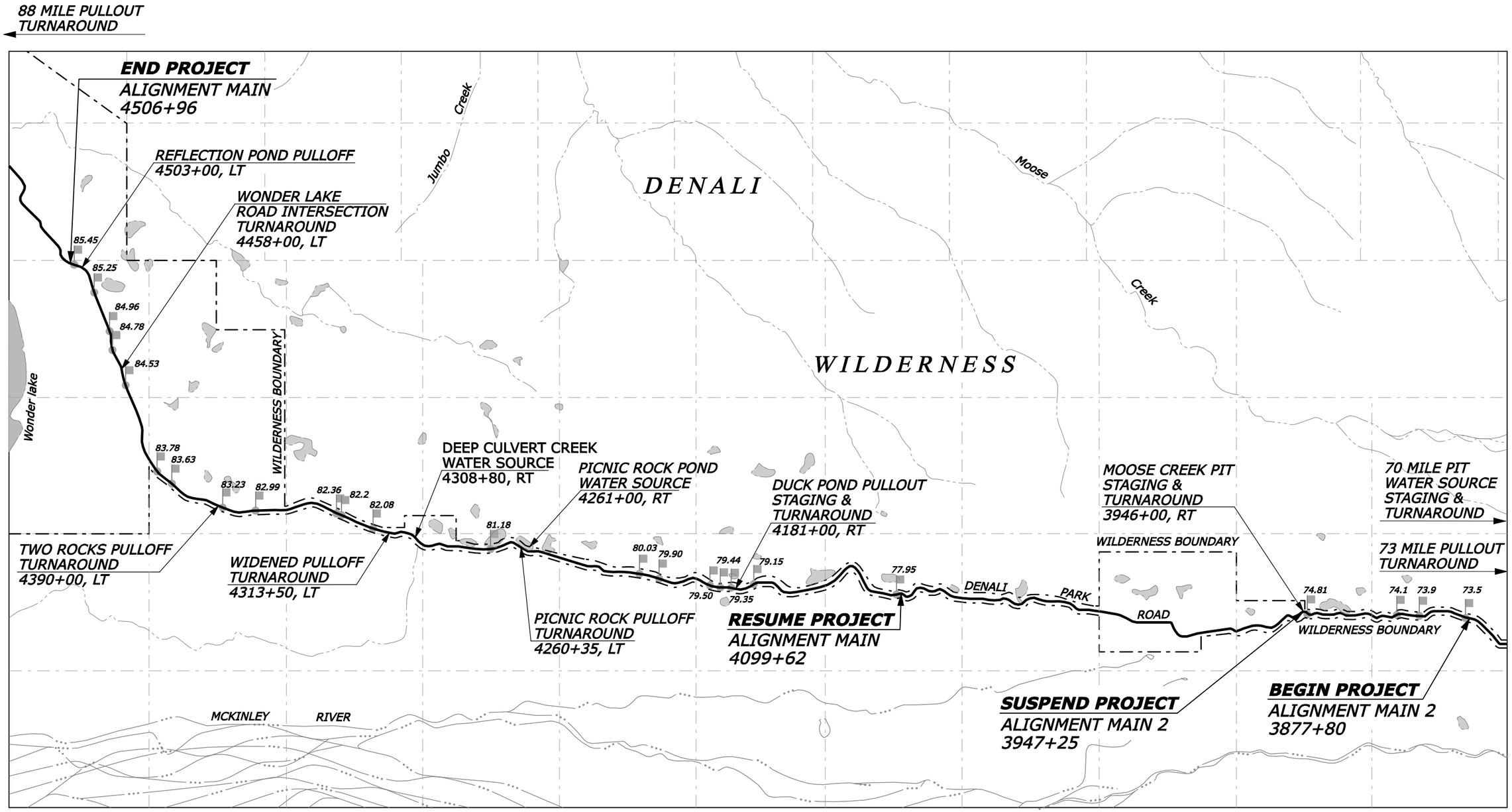
STATE	PROJECT	SHEET NUMBER
AK	PRA DENA 10(27)	A.4



scale in miles

1 0.5 0 1 2

NPS Pkg. No. 101156A, B, C, &D NPS Drwg. Nos. 184/80251

VICINITY MAP

Designed by: W. McQuiston 02/2009
Checked by: R. Johnson 02/2009
23-FEB-2009 3:02PM
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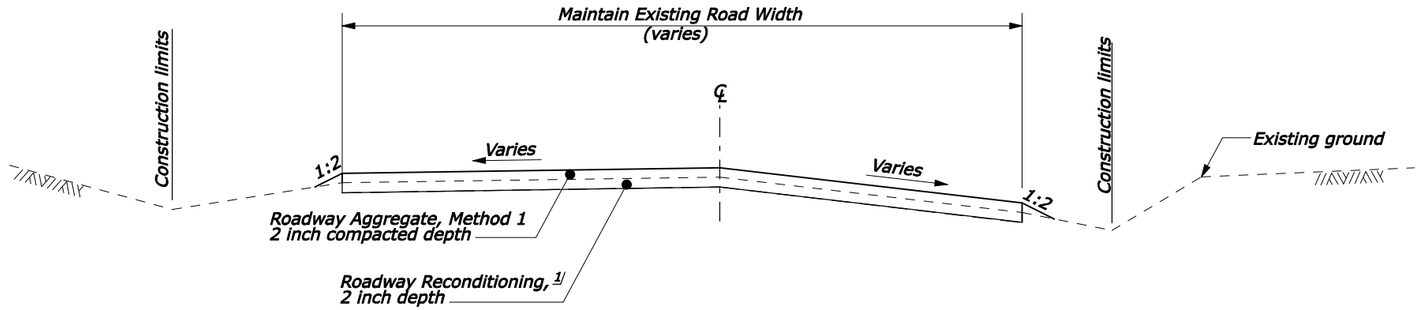
SUMMARY OF QUANTITIES

ITEM	DESCRIPTION	UNIT	SECTION C TYPICAL SECTIONS	SECTION D PLAN AND PROFILE	SECTION E EROSION CONTROL	SECTION F MATERIAL SOURCING	SECTION G DRAINAGE	SECTION H TEMPORARY TRAFFIC CONTROL								ESTIMATED QUANTITIES PLAN	ESTIMATED QUANTITIES BID SCHEDULE
	PLAN SHEET SECTION -------->>																
15101-0000	MOBILIZATION	LPSM														ALL	ALL
15201-0000	CONSTRUCTION SURVEY AND STAKING	LPSM														ALL	ALL
15301-0010	CONTRACTOR QUALITY CONTROL AND ASSURANCE	LPSM														ALL	ALL
15401-0000	CONTRACTOR TESTING	LPSM														ALL	ALL
15501-0000	CONSTRUCTION SCHEDULE	LPSM														ALL	ALL
15705-0100	SOIL EROSION CONTROL, SILT FENCE	LNFT			415	2250										2665	2,850
15801-0000	WATERING FOR DUST CONTROL	MGAL	21824													21824	21,824
20103-0000	CLEARING AND GRUBBING	SQYD	6798													6798	7,500
20301-1900	REMOVAL OF PIPE CULVERT	EACH					24									24	24
20401-0000	ROADWAY EXCAVATION	CUYD	9475													9475	10,500
20410-0000	SELECT BORROW	CUYD	4656													4656	4,750
25101-4000	PLACED RIPRAP, CLASS 4	CUYD					217									217	250
30303-3000	ROADWAY RECONDITIONING	SQYD	7670													7670	7,930
30801-1000	ROADWAY AGGREGATE, METHOD 1	CUYD	8165													8165	8,200
31101-0000	STOCKPILED AGGREGATE , AGGREGATE SURFACING	TON				23640										23640	23,900
31101-0000	STOCKPILED AGGREGATE , SELECT BORROW	TON				57557										57557	58,200
60201-0600	18-INCH PIPE CULVERT	LNFT					100									100	100
60201-0800	24-INCH PIPE CULVERT	LNFT					1031									1031	1,031
60201-1000	36-INCH PIPE CULVERT	LNFT					113									113	113
60201-1200	48-INCH PIPE CULVERT	LNFT					110									110	110
60201-1600	72-INCH PIPE CULVERT	LNFT					76									76	76
60403-0000	INLET (BEAVER DETERRENT DEVICE)	EACH					1									1	1
62201-0250	DUMP TRUCK, 10 CUBIC YARD MINIMUM CAPACITY	HOUR															65
62201-2050	ROLLER	HOUR															35
62201-2850	MOTOR GRADER, 12 FOOT MINIMUM BLADE	HOUR															35
62201-3200	HYDRAULIC EXCAVATOR, CRAWLER MOUNTED, 1.5 CUBIC YARD MINIMUM CAPACITY	HOUR															65
62301-0000	GENERAL LABOR	HOUR															130
63502-0400	TEMPORARY TRAFFIC CONTROL, BARRICADE TYPE 1	EACH						6								6	6

SUMMARY OF QUANTITIES

ITEM	DESCRIPTION	UNIT	SECTION C TYPICAL SECTIONS	SECTION D PLAN AND PROFILE	SECTION E EROSION CONTROL	SECTION F MATERIAL SOURCING	SECTION G DRAINAGE	SECTION H TEMPORARY TRAFFIC CONTROL								ESTIMATED QUANTITIES PLAN	ESTIMATED QUANTITIES BID SCHEDULE
	PLAN SHEET SECTION -------->>																
63502-1250	TEMPORARY TRAFFIC CONTROL, TUBULAR MARKER, TYPE 42-INCH	EACH						50								50	50
63502-1500	TEMPORARY TRAFFIC CONTROL, WARNING LIGHT TYPE A	EACH						4								4	4
63502-1700	TEMPORARY TRAFFIC CONTROL, WARNING LIGHT TYPE C	EACH						8								8	8
63504-1000	TEMPORARY TRAFFIC CONTROL, CONSTRUCTION SIGN	SQFT						144								144	144
63703-0000	RESIDENTIAL HOUSING (INCLUDES FIELD OFFICE)	EACH															1
63704-0000	VEHICLE	EACH															1

STATE	PROJECT	SHEET NUMBER
AK	PRA-DENA 10(27)	C.1



TYPICAL SECTION "A"
RECONDITIONED ROADWAY AREAS

4191+70 to 4194+20
4197+80 to 4200+50
4202+00 to 4203+40
4206+75 to 4207+70
4211+75 to 4215+25
4222+50 to 4225+00
4226+70 to 4235+70
4238+60 to 4240+60
4245+50 to 4249+55
4252+50 to 4254+00
4259+50 to 4262+00
4269+50 to 4272+10
4273+75 to 4275+65

4279+25 to 4281+00
4282+50 to 4283+75
4285+25 to 4287+00
4288+50 to 4290+00
4291+25 to 4292+50
4293+40 to 4296+25
4305+25 to 4311+40
4317+80 to 4320+60
4329+90 to 4332+25
4339+30 to 4341+65
4343+15 to 4344+45
4346+05 to 4349+10
4353+30 to 4357+00

4358+05 to 4359+30
4360+75 to 4362+60
4373+90 to 4376+25
4377+65 to 4380+50
4386+50 to 4392+70
4395+05 to 4396+70
4398+15 to 4400+00
4401+20 to 4405+90
4410+00 to 4413+15
4414+25 to 4415+40
4420+40 to 4422+60
4424+40 to 4426+05
4428+80 to 4432+10

ROADWAY STRUCTURE QUANTITIES

ITEM	DESCRIPTION	QUANTITY	ESTIMATING VALUE	NOTES
15801-0000	Watering for Dust Control	14080 Mgal		Assumes 11 miles of roadway, watered 2 times per day from 6/11 to 10/13.
20103-0000	Clearing and Grubbing	6798 sqyd		See Sheet C.3 for locations.
20401-0000	Roadway Excavation	9475 cuyd 2/		Haul to 70 Mile pit for processing into select borrow.
20410-0000	Select Borrow	4656 cuyd	1.9 ton/cuyd	Processed & stockpiled at 70 Mile Pit
30303-3000	Roadway Reconditioning	7670 sqyd		For Typical Section "A" areas only.
30801-1000	Roadway Aggregate, Method 1	8165 cuyd 4/	1.9 ton/cuyd	Processed & stockpiled at Toklat
62201-0250	Dump Truck, 10 cuyd minimum capacity	65 hour		
62201-2050	Roller	35 hour		
62201-2850	Motor Grader, 12ft minimum blade	35 hour		
62201-3200	Hydraulic Excavator, crawler mounted, 1 1/2 cuyd minimum capacity	65 hour		
62301-0000	General Labor	130 hour		
	Embankment	6617 cuyd 3/		Quantity for information only

FOOTNOTE:

1/ Do not remove more than 2" of existing roadway aggregate to achieve superelevation improvements.

2/ Quantity includes 1961 cuyd excavation for sliver fills.

3/ Quantity includes embankment for sliver fills.

4/ Quantity includes an additional 20% for blending road surface between Typical Sections "A" and Typical Sections "B".

NPS Pkg. No. 101156A, B, C, &D NPS Drwg. Nos. 184/80251

TABULATION OF QUANTITIES/ROADWAY TYPICAL SECTION A

Date
Checked by: --/----
Designed by: Bill McQuiston
23-FEB-2009 3:39PM
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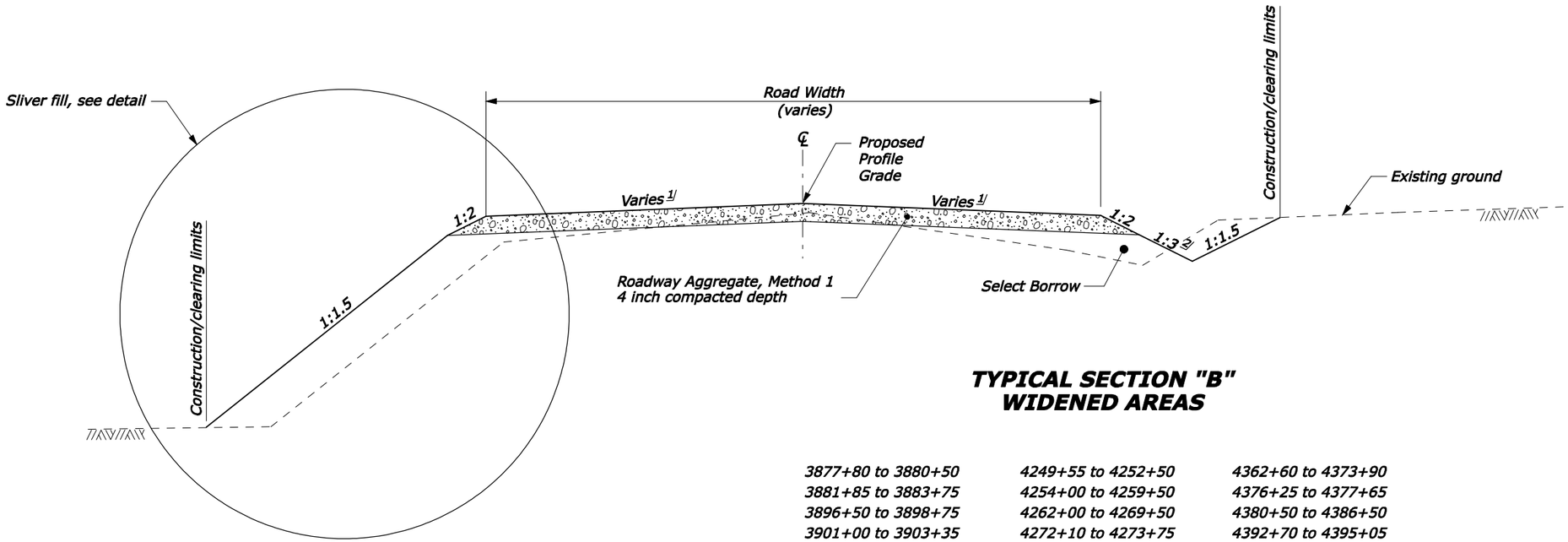
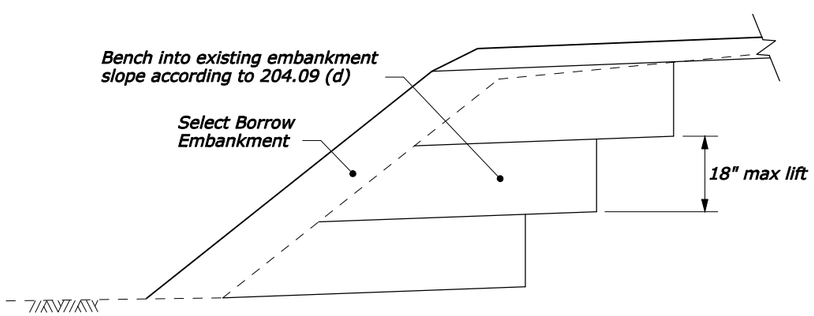
STATE	PROJECT	SHEET NUMBER
AK	PRA-DENA 10(27)	C.2



TYPICAL SECTION "B"
WIDENED AREAS

3877+80 to 3880+50	4249+55 to 4252+50	4362+60 to 4373+90
3881+85 to 3883+75	4254+00 to 4259+50	4376+25 to 4377+65
3896+50 to 3898+75	4262+00 to 4269+50	4380+50 to 4386+50
3901+00 to 3903+35	4272+10 to 4273+75	4392+70 to 4395+05
3905+10 to 3909+30	4275+65 to 4279+25	4396+70 to 4398+15
4100+00 to 4104+00	4281+00 to 4282+50	4400+00 to 4401+20
4106+15 to 4107+85	4283+75 to 4285+25	4405+90 to 4410+00
4165+80 to 4169+10	4287+00 to 4288+50	4413+15 to 4414+25
4170+00 to 4171+40	4290+00 to 4291+25	4415+40 to 4420+40
4175+75 to 4181+00	4292+50 to 4293+40	4422+60 to 4424+40
4183+00 to 4191+70	4296+25 to 4305+50	4426+05 to 4428+80
4194+20 to 4197+80	4311+40 to 4317+80	4432+10 to 4434+20
4200+50 to 4202+00	4320+60 to 4329+90	4448+90 to 4450+90
4203+40 to 4206+75	4332+25 to 4339+30	4452+90 to 4454+60
4207+70 to 4211+75	4341+65 to 4343+15	4462+80 to 4467+00
4215+25 to 4222+50	4344+45 to 4346+05	4472+30 to 4477+10
4225+00 to 4226+70	4349+10 to 4353+30	4486+55 to 4492+50
4235+70 to 4238+60	4357+00 to 4358+05	4497+30 to 4499+30
4240+60 to 4245+50	4359+30 to 4360+75	4502+30 to 4504+50



SLIVER FILL DETAIL

FOOTNOTE:

1/ Superelevate roadway on curves at the rate "e" as indicated in the curve data shown on the plan profile.

2/ Construct slopes as shown in the staking report (See FAR 52.236-4).

NPS Pkg. No. 101156A, B, C, &D NPS Drwg. Nos. 184/80251

ROADWAY
TYPICAL SECTION B

Designed by: W. McQuiston 02/2009
Checked by: R. Johnson 02/2009
23-FEB-2009 3:03PM
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STATE	PROJECT	SHEET NUMBER
AK	PRA-DENA 10(27)	C.3

CLEARING AND GRUBBING LOCATIONS

LOCATION	Lt/Rt	QUANTITY (sqyd)	LOCATION	Lt/Rt	QUANTITY (sqyd)	LOCATION	Lt/Rt	QUANTITY (sqyd)	LOCATION	Lt/Rt	QUANTITY (sqyd)
3878+89 to 3879+52	Rt	17	4210+55 to 4211+75	Rt	25	4323+35 to 4325+41	Lt	35	4449+25 to 4450+90	Rt	151
3881+50 to 3881+69	Rt	2	4215+50 to 4219+30	Rt	60	4326+50 to 4329+30	Rt	414	4462+90 to 4465+72	Rt	51
3881+50 to 3881+85	Lt	5	4221+60 to 4222+50	Rt	27	4332+25 to 4332+95	Lt	9	4472+95 to 4473+85	Rt	44
3882+05 to 3883+25	Lt	74	4225+70 to 4226+30	Lt	8	4332+95 to 4333+95	Rt	38	4475+30 to 4476+30	Rt	46
3897+18 to 3898+26	Rt	76	4236+00 to 4238+60	Lt	118	4335+05 to 4335+90	Rt	9	4486+70 to 4488+15	Rt	120
3901+00 to 3901+30	Rt	2	4240+60 to 4244+50	Rt	231	4344+45 to 4345+80	Rt	93	4489+50 to 4490+00	Rt	39
3901+00 to 3903+35	Lt	139	4241+50 to 4242+25	Lt	9	4349+80 to 4351+15	Rt	122	4491+00 to 4492+00	Lt	23
3902+40 to 3903+35	Rt	33	4243+50 to 4245+20	Lt	117	4351+95 to 4352+80	Lt	19	4497+30 to 4499+30	Rt	114
3908+50 to 3909+30	Lt	32	4249+55 to 4250+40	Rt	11	4352+50 to 4353+30	Rt	16	4497+70 to 4499+30	Lt	132
3942+40 to 3943+50	Rt	33	4251+00 to 4252+50	Rt	60	4357+00 to 4358+05	Lt	34	4502+30 to 4504+50	Rt	225
4100+24 to 4101+07	Rt	34	4254+00 to 4255+00	Rt	31	4357+20 to 4358+05	Rt	41		**TOTAL**	**6798 sqyd**
4101+79 to 4104+00	Rt	88	4254+00 to 4255+75	Lt	87	4359+30 to 4360+20	Rt	40			
4102+40 to 4103+35	Lt	17	4258+00 to 4259+50	Lt	154	4363+30 to 4363+80	Rt	8			
4106+35 to 4106+86	Rt	15	4259+00 to 4259+50	Rt	10	4364+75 to 4365+63	Rt	13			
4167+59 to 4168+01	Rt	40	4262+00 to 4263+15	Rt	23	4365+88 to 4366+80	Lt	18			
4168+59 to 4168+80	Rt	3	4266+75 to 4268+30	Lt	25	4368+90 to 4372+50	Rt	353			
4170+25 to 4171+25	Lt	35	4267+45 to 4268+30	Rt	16	4376+25 to 4377+65	Rt	206			
4176+64 to 4177+82	Lt	44	4268+45 to 4269+50	Rt	46	4380+50 to 4383+20	Rt	549			
4179+00 to 4180+03	Lt	27	4272+10 to 4272+85	Rt	16	4385+00 to 4386+50	Rt	75			
4186+40 to 4187+80	Rt	58	4276+00 to 4278+00	Rt	122	4393+10 to 4394+70	Rt	134			
4188+95 to 4190+75	Lt	39	4284+00 to 4284+80	Lt	15	4396+70 to 4397+80	Rt	74			
4189+10 to 4190+60	Rt	43	4290+25 to 4291+05	Rt	7	4396+85 to 4398+12	Lt	66			
4191+05 to 4191+58	Lt	9	4290+25 to 4290+95	Lt	11	4400+05 to 4401+20	Lt	65			
4191+45 to 4191+70	Rt	4	4296+25 to 4298+75	Rt	119	4400+60 to 4401+20	Rt	47			
4194+20 to 4194+98	Lt	24	4300+60 to 4302+35	Lt	46	4405+90 to 4410+00	Rt	437			
4194+50 to 4194+97	Rt	5	4231+00 to 4312+95	Lt	91	4407+13 to 4408+38	Lt	97			
4195+20 to 4196+00	Rt	15	4312+95 to 4314+15	Rt	15	4413+15 to 4414+25	Rt	98			
4197+30 to 4197+80	Lt	4	4313+30 to 4313+67	Lt	39	4416+00 to 4417+20	Rt	81			
4204+35 to 4205+37	Lt	12	4315+05 to 4315+05	Lt	10	4416+45 to 4417+20	Lt	3			
4206+00 to 4206+75	Lt	4	4320+60 to 4321+40	Rt	10	4426+87 to 4427+90	Rt	34			
4208+00 to 4211+75	Lt	114	4320+95 to 4321+80	Lt	11	4432+78 to 4433+52	Lt	6			

NPS Pkg. No. 101156A, B, C, &D NPS Drwg. Nos. 184/80251

CLEARING AND GRUBBING LOCATIONS

Date
Checked by: --/----
Designed by: 23-FEB-2009 3:03PM
Bill McQuiston
IP_PWP:dms04343\dena1027cc.dgn [US_Int2D]