

STATE OF ALASKA

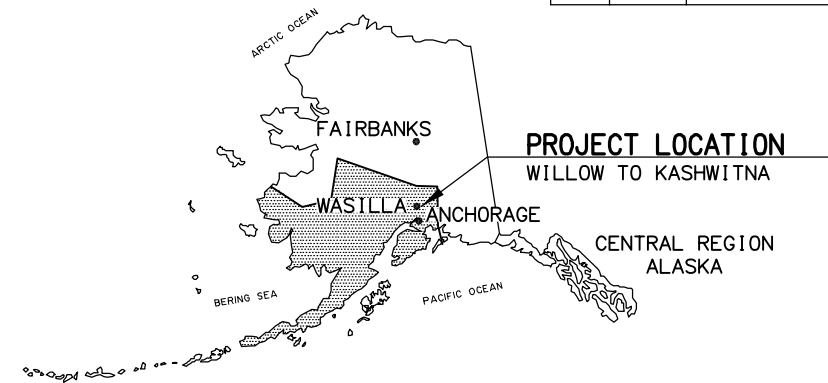
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

PROPOSED HIGHWAY PROJECT

PARKS HIGHWAY M.P. 72-83, WILLOW TO KASHWITNA IM OA4-1(22)/54985

GRADING, DRAINAGE, PAVING, SIGNING, AND STRIPING

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	IM OA4-1(22)/54985	2009	A1	173
			ROUTE: 170000		MILEPOINT: 36.63 TO 48.03		



INDEX	
SHEET NO.	DESCRIPTION
A1 TO A9	TITLE, LEGEND, LAYOUT, SURVEY CONTROL
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E1 TO E8	DETAIL SHEETS
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THE FOLLOWING STANDARD DRAWINGS
APPLY TO THIS PROJECT:

C-03.10, C-04.12, C-05.10
D-01.02, D-04.21, D-06.10, D-07.00, D-30.01
G-00.01, G-04.06S, G-04.07W, G-09.04S, G-09.04W
G-10.01, G-20.10, G-25.20W, G-30.00
I-30.10
M-20.12, M-23.12
S-00.10, S-05.01, S-30.03, S-31.00, S-32.00
T-05.10, T-20.02, T-21.02

DEPARTMENT OF NATURAL RESOURCES
STANDARD DRAWINGS:

S-10B

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

WEB REVIEW
NOT FOR CONSTRUCTION

APPROVED:

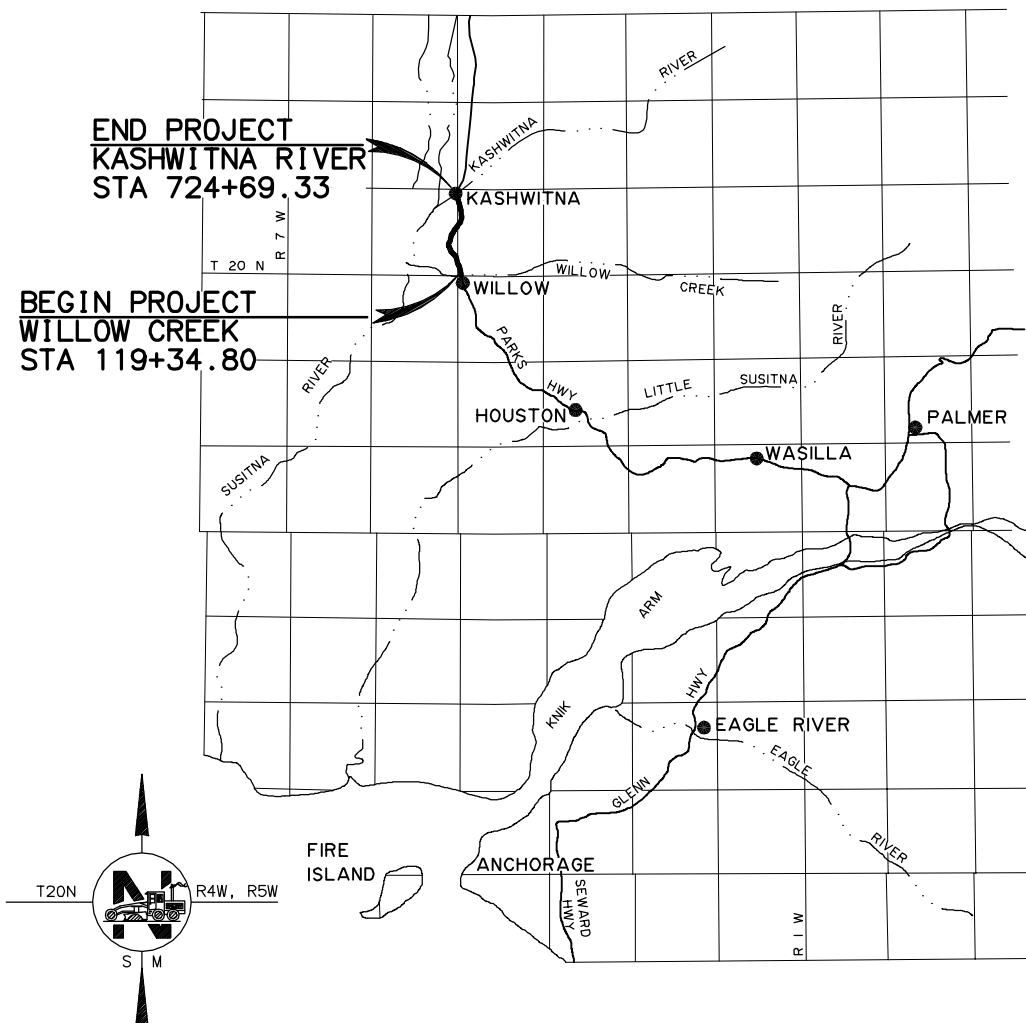
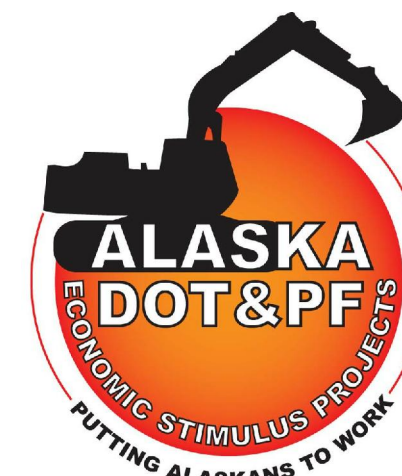
REGIONAL PRE-CONSTRUCTION ENGINEER DATE
CONCUR:

DIRECTOR, DESIGN AND CONSTRUCTION DATE
CERTIFIED TRUE & CORRECT AS-BUILT OF ACTUAL FIELD CONDITION:

CONSTRUCTION PROJECT MANAGER DATE

PROJECT SUMMARY		
ROADWAY	LENGTH (MI.)	WIDTH (FT.)
PARKS HIGHWAY	11.6	40

DESIGN DESIGNATION	
FUNCTIONAL CLASS	RURAL ARTERIAL
A.A.D.T. (2003)	3050
A.A.D.T. (2026)	6020
D.H.V.	20%
D.	60/40
T.	16.4%
V. (mph)	65
EAL (2016)	882,000



DESIGNED BY
CHECKED BY
DRAFTED BY
SCALE
COMPUTER DESIGNATION
H:\pba\02-046 Parks Highway MP 72-83 Rehab\06-Plans and Specs\cadd\drawings\02046_00_A01.dwg 08/14/09 at 09:23 by nrv

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XREF: 02046_00_B01

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PLOT QTB: adot_ls.adot_ls
SCALE: 1"=100'
COMPUTER DESIGNATION
XREFS:
DESIGNED BY: ADOT
CHECKED BY: ADOT
DRAFTED BY: ADOT

	RECOVERED	TO BE SET THIS PROJECT
GOV'T SECTION CORNER		
GOV'T 1/4 SECTION CORNER		
GOV'T 1/16 SECTION CORNER		
GOV'T SURVEY MONUMENT		
GOV'T CONTROL STA.		
PRIMARY MON. [BRASS/AL CAP]		
SECONDARY CORNER		
PRIMARY CENTERLINE MONUMENT		
SECONDARY CENTERLINE MONUMENT		
SURVEY CONTROL POINT		
SECONDARY SURVEY CONT. POINT		
GPS CONTROL POINT		
BENCH MARK		
TEMPORARY BENCH MARK		
ROCK MONUMENT		
INTERNATIONAL BOUNDARY LINE		
TOWNSHIP & RANGE LINE		
SECTION LINE		
1/4 SECTION LINE		
1/16 SECTION LINE		
CORPORATE or CITY LIMITS		
EXISTING RIGHT-OF-WAY		
RIGHT-OF-WAY REQUIRED		
PROJECT RIGHT-OF-WAY LINE		
EXISTING PROPERTY LINE		
CONTROLLED ACCESS LINE		
PERMIT LINE		
EXISTING EASEMENT LINE		
STATION EQUATION		
PROJECT CENTERLINE		
EXISTING CENTERLINE		
RAILROAD CENTERLINE		
HIGHWAY MILEPOST		
RAILROAD MILEPOST		

ROADWAY OBLITERATION	
LIMIT OF CUT SLOPE	
LIMIT OF FILL SLOPE	
PROPOSED ROADWAY	
EXISTING ROADWAY	
NOISE BARRIER	
FENCE	
STONE FENCE	
HEAD & WINGWALLS	
GUARD RAIL EXISTING	
PROPOSED	
RETAINING WALL	
TUNNEL	
INTERMITTENT DRAINAGE	
INTERCEPTOR DITCH	
MARSHLAND	
CREEK	
RIVER	
LAKE	
RESERVOIR	
CHANNEL CHANGE	
PLANTER	
VENT	
TANK VENT	
WELL	
SEPTIC	
TANKS	
Above Ground	
Below Ground	
SATELLITE DISH	
PRIVATE SIGN	
GAS PUMP	
POST	
BOULDER OR BOULDERS	
LANDSCAPE LIGHT	
DECIDUOUS TREE	
CONIFER TREE	
SHRUB OR SHRUBS	

PIPELINES:	EXISTING	PROPOSED
(BELLS INDICATE DIRECTION OF FLOW)		
SANITARY SEWER		
OIL		
GAS		
WATER		
STORM DRAIN		
SIDEWALK		
CONCRETE CURB		
CONCRETE CURB & GUTTER		
DRIVEWAY, APPROACH, & SIDEDRAIN		
BRIDGE		
RIPRAP		
TELEPHONE	(OVERHEAD)	(OVERHEAD)
ELECTRIC	(OVERHEAD)	(OVERHEAD)
FIBER OPTIC	(OVERHEAD)	(OVERHEAD)
CABLE TV	(OVERHEAD)	(OVERHEAD)
U.G. DUCT	(DIRECT BURY)	(DIRECT BURY)
TELEPHONE MANHOLE		
ELECTRIC MANHOLE		
FOUNDATION		
BUILDING		
MANHOLE		
FIRE HYDRANT		
METER		
VALVE		
PIPE CULVERT w/ END SECT.		
UTILITY POLE		
ELECTROLIER		
UTILITY POLE WITH LUMINAIRE		
POLE ANCHOR /w GUY		
TRANSMISSION TOWER [WOOD]		
TRANSMISSION TOWER [STEEL]		
ELECTRICAL OUTLET		
ELECTRICAL PEDESTAL		
TELEPHONE PEDESTAL		
CABLE T.V. PEDESTAL		

	EXISTING	PROPOSED
MAILBOX		
SIGN (FACING)		
DELINEATOR (FACING)		
PVC CONDUIT		
RMC CONDUIT		
SIGNAL FACE, VEHICULAR		
SIGNAL FACE, LEFT TURN,		
SIGNAL FACE, PEDESTRIAN		
JUNCTION BOX, TYPE IA		
JUNCTION BOX, TYPE II		
JUNCTION BOX, TYPE III		
DETECTOR, LOOP		
DETECTOR, OPTICOM		
PEDESTRIAN PUSH BUTTON (DIRECTION)		
SIGNAL CONTROLLER		
LOAD CENTER		
SIGNAL POLE		
SIGNAL POLE w/MASTARM		
SOLID WHITE STRIPE		
SOLID YELLOW STRIPE		
BROKEN WHITE or YELLOW STRIPE		
DASH YELLOW STRIPE		
SOLID YELLOW STRIPE with BROKEN YELLOW STRIPE		
X = ACTUAL NUMBER		

WEB REVIEW
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITY
PARKS HIGHWAY M.P. 72-83
WILLOW TO KASHWITNA

LEGEND SHEET

HATTENBURG DILLEY & LINNELL

Hi:\jobs\02-046 Forks Highway MP 72-83 Rehab\06-Plans and Specs\cad\drawings\02046_00_A03_1=1_02/09/09 at 12:00 by rry

DESIGNED BY JMF

CHECKED BY DRL

DRAFTED BY

PLOT QTB: adot_ha,adot_fs

PLOT SCALE: 1:1

PLOT VIEW:

XREFS:

SCALE 1=

COMPUTER DESIGNATION

LAYOUT: Model

VIEW: A03_F_D0800, A03_LL5000, A03_H_X7700

XREF: 02046_00_B001

ABBREVIATIONS

A.A.D.T.	AVERAGE ANNUAL DAILY TRAFFIC
AC	ASPHALT CONCRETE
ADF&G	ALASKA DEPARTMENT OF FISH AND GAME
ADOT	ALASKA DEPARTMENT OF TRANSPORTATION
ATB	ASPHALT TREATED BASE
BC	BRASS CAP
BK	BOOK
BM	BENCH MARK
BOP	BEGINNING OF PROJECT
CF	CUBIC FEET
CIR	CIRCLE
CL	CENTERLINE
COR	CORNER
CP	CONTROL POINT
CPM	CRITICAL PATH METHOD
CS	CONTINGENT SUM
CSP	CORRUGATED STEEL PIPE
CY	CUBIC YARD
D	DEGREE
D (%)	DIRECTIONAL SPLIT (PERCENTAGE)
DHV	DESIGN HOUR VOLUME
DIA	DIAMETER
E	EAST
EA	EACH
EAL	EQUIVALENT AXLE LOAD
ELEV	ELEVATION
EOP	END OF PROJECT
EST	ESTIMATE
FND	FOUND
FT	FEET
GA	GAUGE
GAL	GALLON
GOV'T	GOVERNMENT
H	HOUR
HP	HORSE POWER
HWY	HIGHWAY
HR	HOUR
IN	INCH
L	LENGTH
LB	POUND
LF	LINEAR FOOT
LN	LANE
LOC	LIP OF CURB
LS	LUMP SUM
LT	LEFT
M-GAL	1,000 GALLONS
ME	MATCH EXISTING
MEAS	MEASURE
MI	MILE
MIN	MINIMUM
MISC	MISCELLANEOUS
MON	MONUMENT
MP	MILEPOST
MPH	MILES PER HOUR
M.S.B.	MATANUSKA SUSITNA BOROUGH
N	NORTH
N/A	NOT APPLICABLE
NE	NORTH EAST
NO, No.	NUMBER
NW	NORTH WEST
OG	ORIGINAL GROUND
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVE
PG	PROFILE GRADE POINT
PH	PHASE
PI	POINT OF INTERSECTION
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENCY
PUE	PUBLIC UTILITY EASEMENT
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
R	RADIUS
REC	RECORD
REQ'D	REQUIRED
RP	RADIUS POINT
RR	RAILROAD
RT	RIGHT
R/W	RIGHT OF WAY
S	SOUTH
S	SUPER ELEVATION RATE
SE	SOUTH EAST
SEC	SECTION
SF	SILT FENCE

ABBREVIATIONS (CONTINUED)

SF	SQUARE FOOT
SHLD	SHOULDER
SM	SEWARD MERIDIAN
SQ	SQUARE
STA	STATION
STD	STANDARD
SUBD	SUBDIVISION
SW	SOUTH WEST
SY	SQUARE YARD
T	TANGENT
T (%)	TRUCKS (PERCENTAGE)
TBC	TOP BACK OF CURB
TBM	TEMPORARY BENCH MARK
TCP	TEMPORARY CONSTRUCTION PERMIT
TYP	TYPICAL
UNSUB	UNSUBDIVIDED
V	VELOCITY
VC	VERTICAL CURVE
VPC	VERTICAL POINT OF CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
W	WEST
W	WHITE
WWF	WELDED WIRE FABRIC
Y	YELLOW
YD	YARD

ADDITIONAL SYMBOLS

EXISTING	PROPOSED	
		CULVERT
		VEGETATION/TREELINE
		PI
		PC / PT
		GRADE TO DRAIN
		SLOPE GRADE
		UTILITY CLEARING LIMIT
		ROCK LINED DRAINAGE CHANNEL
		TEMPORARY DIVERSION CHANNEL

TABLE OF ESTIMATING FACTORS

ITEM NO.	ITEM	FACTOR
203(6A)	BORROW, TYPE A	145 LB/CF
203(6B)	BORROW, TYPE B	142 LB/CF
301(1)	AGGREGATE BASE COURSE, GRADING D-1	148 LB/CF
306(1)	ATB	152 LB/CF
401(1)	HOT MIX ASPHALT, TYPE II, CLASS A	152 LB/CF
401(2)	ASPHALT CEMENT, GRADE PG 52-28	5.5% OF WEIGHT OF 401(1)
402(1)	STE-1 ASPHALT FOR TACK COAT	0.00415 TON/GAL
611(2A)	RIPRAP, CLASS I	108 LB/CF
611(2B)	RIPRAP, CLASS II	108 LB/CF

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	IM 0A4-1(22)/54985	2009	A3	A9

WEB REVIEW
NOT FOR CONSTRUCTION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITY

PARKS HIGHWAY M.P. 72-83
WILLOW TO KASHWITNA

LEGEND, SYMBOLS, ABBREVIATIONS

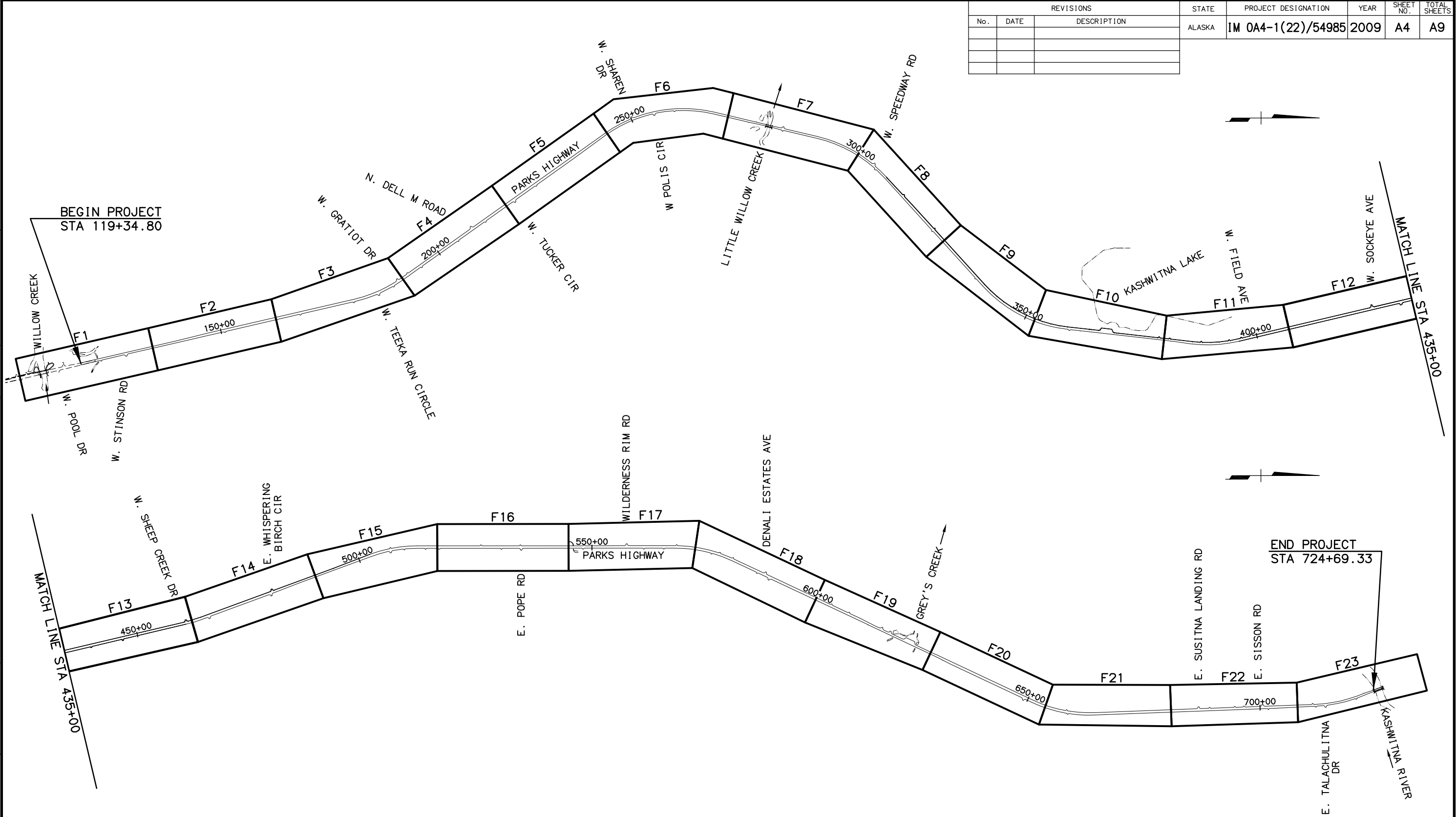
HATTENBURG DILLEY & LINNELL

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PLOT SCALE: 1:1 CHECKED BY DRL
PLOT VIEW: DRAFTED BY NRY

LAYOUT: 02046_00_A04_H_L_5000_A04_H_L_X7700
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REVISIONS		
No.	DATE	DESCRIPTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	IM 0A4-1(22)/54985	2009	A4	A9

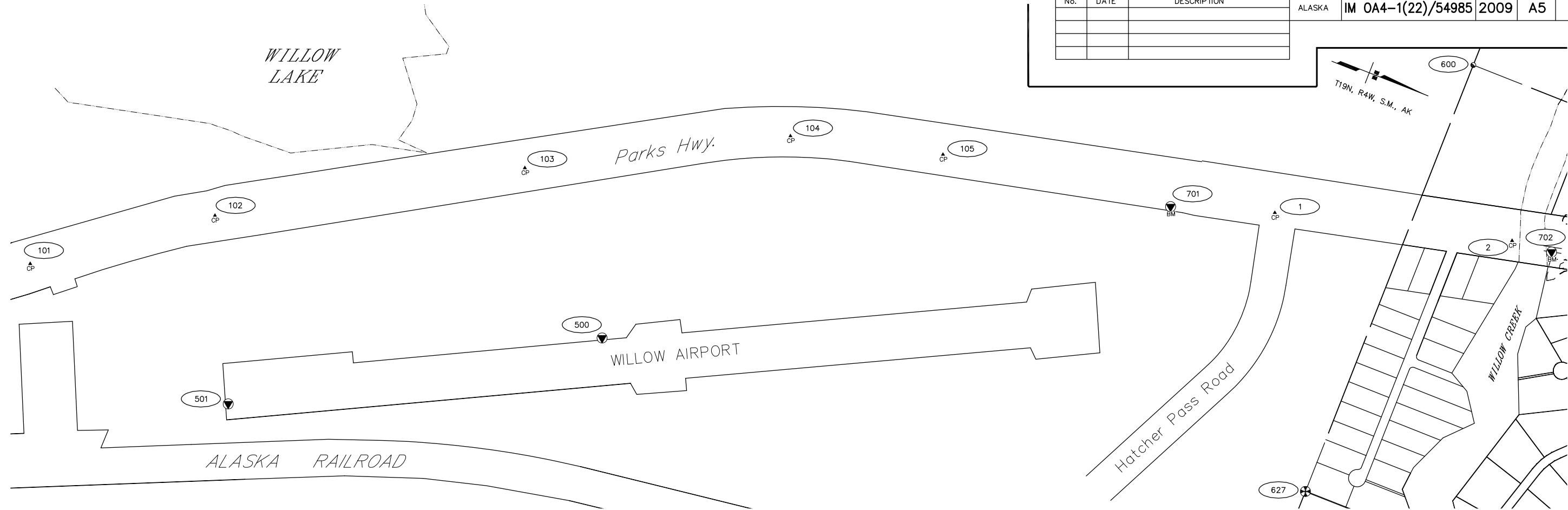


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HATTENBURG DILLEY & LINNELL

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITY
PARKS HIGHWAY M.P. 72-83
WILLOW TO KASHWITNA

PROJECT LAYOUT

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION					
			ALASKA	IM OA4-1(22)/54985	2009	A5	



NOTES:

- Horizontal control points 500-509 were established by AKDOT by using networked static GPS control.
- All intermediate control points (101-105, 1-52) were established by AKDOT using conventional traverse techniques with a Leica TCRA 1101plus Total Station instrument. This traverse was then constrained to the GPS control points using a least squares adjustment.
- All background and ROW information shown hereon is for orientation purposes only. Refer to AKDOT ROW Maps for any ROW information.
- All dimensions and coordinates shown are in U.S. Survey Feet.
- The AKDOT control survey was completed during July-August 2002.
- The ASCG Inc. ROW survey was performed from May 8, 2003 through October 22, 2004. All found monument positions were determined by networked static GPS. The ASCG GPS network was constrained to the AKDOT control using a least squares adjustment.
- Monument symbols without point numbers are shown to assist the contractor in identifying corners that shall be preserved.
- 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 position (A.S. 19.10260) and recorded (A.S. 34.65.040).

Horizontal Control This Sheet:

Point	Station	Offset	Northing	Easting	Description
1			211798.3656	316921.8189	Fd Rbr/Pc: TS PH-1
2			213132.2893	316570.0644	Fd Rbr/Pc: TS PH-2
101			205221.0302	319829.0610	Fd Rbr/Pc: TS-101
102			206111.1073	319179.2659	Fd Rbr/Pc: TS-102
103			207675.5750	318268.1720	Fd Rbr/Pc: TS-103
104			209034.2950	317534.5200	Fd Rbr/Pc: TS-104
105			209892.6929	317311.6327	Fd Rbr/Pc: TS-105
500			208449.6508	319017.6054	Fd BC: Sta Z22A
501			206580.8337	320162.6705	Fd BC: Sta Z22A AZ
600			212552.2122	315709.0297	Fd Rbr: C 1/4, Sec 6, T19N, R4W
627			212552.1466	318353.5987	Fd BC: 1/4, Sec 5 / Sec 6 , T19N, R4W

Vertical Control This Sheet:

Point	Station	Offset	Northing	Easting	Elevation	Description
701			211226	317110	161.99	USC&GS BM E104
702			213368	316548	162.58	USC&GS BM F104

HORIZONTAL CONTROL STATEMENT

Coordinate System:
This project is located entirely within the Matanuska-Susitna Valley SV-2 adjustment, a U.S. Foot local surface grid coordinate system developed by the Alaska Department of Transportation.

Basis of Coordinates:
The Basis of Coordinates is NGS Station Z22A (1994), a standard disk set in a concrete tie down pad near the intersection of runway 31-13 at the Willow airport. Said station has SV-2 coordinates of 208,449.6507 N, 319,017.6054 E.

Basis of Bearings:
The Basis of Bearings is a local plane bearing between NGS Station Z22A (1994) and AKDOTPF Station GPS U-104 (1965). AKDOTPF Station GPS U-104 (1965), a standard NGS brass disc cemented in the Northeast curb at the Northwest end of the Kashwitna River bridge, bears N 03° 00' 29.5" W a distance of 62,251.48 U.S. Feet from NGS Station Z22A. AKDOTPF Station GPS U-104 (1965) has SV-2 coordinates of 270,615.3475 N, 315,750.7317 E.

Translation Parameters:
To convert the local coordinates to NAD83 (92) State Plane U.S. Foot coordinates, translate using +2,624,987.4039 N, +1,312,507.1407 E, and scale using 0.9998907818.

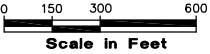
VERTICAL CONTROL STATEMENT

MSL 1929 NGVD, as determined by a series of level loops performed by AKDOT between the following bench marks:

Point	Northing	Easting	Elevation	Description
701	211226	317110	161.985	USC&GS BM E104
702	213368	316548	162.575	USC&GS BM F104
708	226577	310905	185.702	USC&GS BM J104
709	228833	311324	148.641	USC&GS BM K104
711	232800	314174	185.853	USC&GS BM L104
713	237606	315802	192.910	USC&GS BM M104
715	242853	314822	216.141	USC&GS BM N104
719	252283	312712	224.586	USC&GS BM Q104
700	270615	315751	184.202	USC&GS BM U104

SURVEY CONTROL LEGEND

- Found AKDOT Control Point
- Found Government Control Station
- Found Temporary Benchmark
- Found Benchmark
- Found BLM Monument
- Found Primary Monument
- Found Secondary Monument
- Point Number Identifier



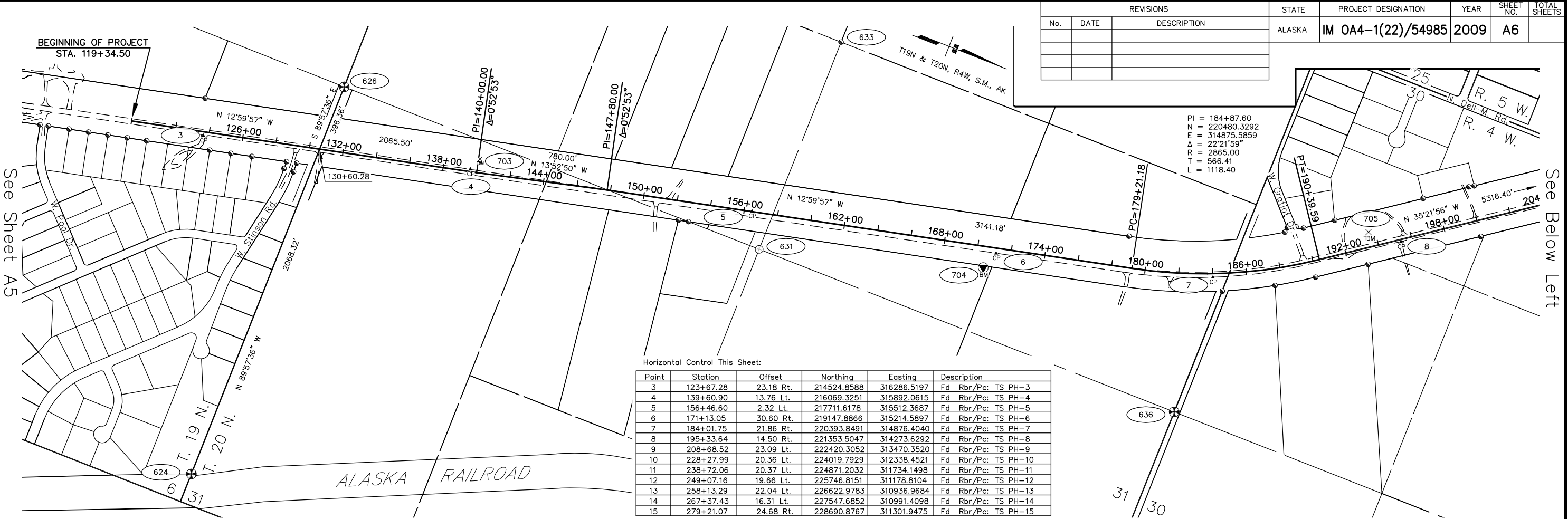
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WC PACIFIC

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITY
PARKS HIGHWAY M.P. 72-83
WILLOW TO KASHWITNA

Survey Control Sheet

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION					
			ALASKA	IM OA4-1(22)/54985	2009	A6	



Horizontal Control This Sheet:

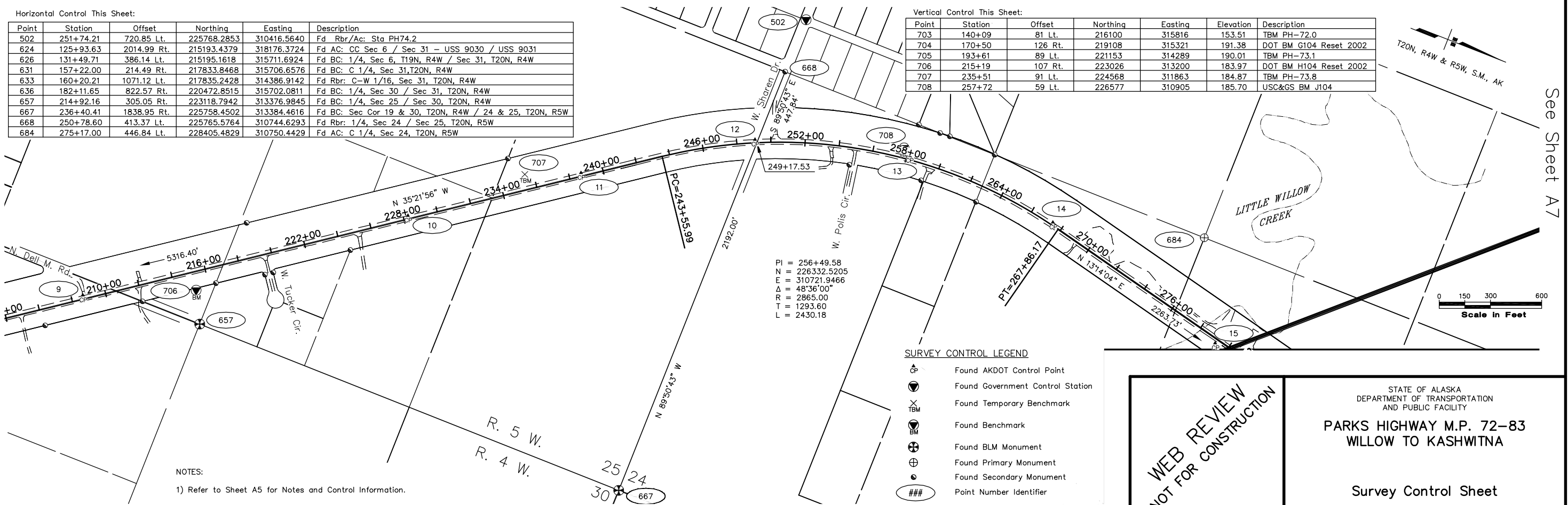
Point	Station	Offset	Northing	Easting	Description
3	123+67.28	23.18 Rt.	214524.8588	316286.5197	Fd Rbr/Pc: TS PH-3
4	139+60.90	13.76 Lt.	216069.3251	315892.0615	Fd Rbr/Pc: TS PH-4
5	156+46.60	2.32 Lt.	217711.6178	315512.3687	Fd Rbr/Pc: TS PH-5
6	171+13.05	30.60 Rt.	219147.8866	315214.5897	Fd Rbr/Pc: TS PH-6
7	184+01.75	21.86 Rt.	220393.8491	314876.4040	Fd Rbr/Pc: TS PH-7
8	195+33.64	14.50 Rt.	221353.5047	314273.6292	Fd Rbr/Pc: TS PH-8
9	208+68.52	23.09 Lt.	222420.3052	313470.3520	Fd Rbr/Pc: TS PH-9
10	228+27.99	20.36 Lt.	224019.7929	312338.4521	Fd Rbr/Pc: TS PH-10
11	238+72.06	20.37 Lt.	224871.2032	311734.1498	Fd Rbr/Pc: TS PH-11
12	249+07.16	19.66 Lt.	225746.8151	311178.8104	Fd Rbr/Pc: TS PH-12
13	258+13.29	22.04 Lt.	226622.9783	310936.9684	Fd Rbr/Pc: TS PH-13
14	267+37.43	16.31 Lt.	227547.6852	310991.4098	Fd Rbr/Pc: TS PH-14
15	279+21.07	24.68 Rt.	228690.8767	311301.9475	Fd Rbr/Pc: TS PH-15

Horizontal Control This Sheet:

Point	Station	Offset	Northing	Easting	Description
502	251+74.21	720.85 Lt.	225768.2853	310416.5640	Fd Rbr/Ac: Sta PH74.2
624	125+93.63	2014.99 Rt.	215193.4379	318176.3724	Fd AC: CC Sec 6 / Sec 31 - USS 9030 / USS 9031
626	131+49.71	386.14 Lt.	215195.1618	315711.6924	Fd BC: 1/4, Sec 6, T19N, R4W / Sec 31, T20N, R4W
631	157+22.00	214.49 Rt.	217833.8468	315706.6576	Fd BC: C 1/4, Sec 31, T20N, R4W
633	160+20.21	1071.12 Lt.	217835.2428	314386.9142	Fd Rbr: C-W 1/16, Sec 31, T20N, R4W
636	182+11.65	822.57 Rt.	220472.8515	315702.0811	Fd BC: 1/4, Sec 30 / Sec 31, T20N, R4W
657	214+92.16	305.05 Rt.	223118.7942	313376.9845	Fd BC: 1/4, Sec 25 / Sec 30, T20N, R4W
667	236+40.41	1838.95 Rt.	225758.4502	313384.4616	Fd BC: Sec Cor 19 & 30, T20N, R4W / 24 & 25, T20N, R5W
668	250+78.60	413.37 Lt.	225765.5764	310744.6293	Fd Rbr: 1/4, Sec 24 / Sec 25, T20N, R5W
684	275+17.00	446.84 Lt.	228405.4829	310750.4429	Fd AC: C 1/4, Sec 24, T20N, R5W

Vertical Control This Sheet:

Point	Station	Offset	Northing	Easting	Elevation	Description
703	140+09	81 Lt.	216100	315816	153.51	TBM PH-72.0
704	170+50	126 Rt.	219108	315321	191.38	DOT BM G104 Reset 2002
705	193+61	89 Lt.	221153	314289	190.01	TBM PH-73.1
706	215+19	107 Rt.	223026	313200	183.97	DOT BM H104 Reset 2002
707	235+51	91 Lt.	224568	311863	184.87	TBM PH-73.8
708	257+72	59 Lt.	226577	310905	185.70	USC&GS BM J104



SURVEY CONTROL LEGEND

CP	Found AKDOT Control Point
●	Found Government Control Station
X TBM	Found Temporary Benchmark
BM	Found Benchmark
⊕	Found BLM Monument
⊕	Found Primary Monument
●	Found Secondary Monument
###	Point Number Identifier

WEB REVIEW
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITY
**PARKS HIGHWAY M.P. 72-83
WILLOW TO KASHWITNA**

Survey Control Sheet

DESIGNED BY: [Blank]
CHECKED BY: [Blank]
DRAFTED BY: WDC

XREFS:
SCALE 1" = 300'
4504-SCS.dwg

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	IM OA4-1(22)/54985	2009	A7	

See Below Left

Vertical Control This Sheet:

Point	Station	Offset	Northing	Easting	Elevation	Description
709	280+65	14 Rt.	228633	311324	148.64	USC&GS BM K104
710	306+46	116 Rt.	231089	312386	186.41	TBM PH-75.2
711	331+25	56 Rt.	232800	314174	185.85	USC&GS BM L104
712	357+67	101 Lt.	234993	315483	191.36	TBM PH-76.2
713	384+05	82 Lt.	237606	315802	192.91	USC&GS BM M104
714	412+21	94 Lt.	240339	315384	202.46	TBM PH-77.2
715	437+97	64 Lt.	242853	314822	216.14	USC&GS BM N104
716	458+50	110 Lt.	244842	314306	232.69	TBM PH-78.1

PI = 349+47.62
N = 234067.8211
E = 315484.5935
Δ = 41°14'56"
R = 2865.00
T = 1078.28
L = 2062.60

Horizontal Control This Sheet:

Point	Station	Offset	Northing	Easting	Description
16	296+15.62	18.08 Lt.	230337.2641	311702.7773	Fd Rbr/Pc: TS PH-16
17	304+05.08	23.72 Lt.	231009.2462	312123.3050	Fd Rbr/Pc: TS PH-17
18	322+06.52	24.13 Lt.	232240.9122	313440.9081	Fd Rbr/Pc: TS PH-18
19	340+66.55	10.96 Rt.	233472.1893	314836.1430	Fd Rbr/Pc: TS PH-19
20	350+39.07	11.79 Rt.	234277.0053	315380.6515	Fd Rbr/Pc: TS PH-20
21	359+87.89	12.22 Rt.	235193.4871	315624.1916	Fd Rbr/Pc: TS PH-21
22	378+82.67	25.94 Lt.	237080.5572	315799.1989	Fd Rbr/Pc: TS PH-22
23	390+57.28	11.59 Rt.	238247.3920	315934.2716	Fd Rbr/Pc: TS PH-23
24	400+63.74	12.03 Rt.	239237.8374	315753.8578	Fd Rbr/Pc: TS PH-24
25	412+74.20	12.00 Rt.	240415.9194	315475.7514	Fd Rbr/Pc: TS PH-25
26	425+39.02	28.52 Lt.	241637.5951	315145.7444	Fd Rbr/Pc: TS PH-26
27	439+80.43	12.88 Rt.	243049.9640	314854.9037	Fd Rbr/Pc: TS PH-27
28	454+42.51	12.84 Rt.	244472.9341	314518.9803	Fd Rbr/Pc: TS PH-28

PI = 299+38.59
N = 230660.4595
E = 311739.8029
Δ = 34°28'00"
R = 2865.00
T = 888.69
L = 1723.46

Horizontal Control This Sheet:

Point	Station	Offset	Northing	Easting	Description
503	429+25.99	1722.57 Lt.	241625.0472	313408.1028	Fd Rbr/AC: Sta PH77.5
677	297+91.97	1180.49 Lt.	231043.3705	310755.7842	Fd BC: 1/4, Sec 13 / Sec 24, T20N, R5W
683	313+62.93	836.47 Rt.	231036.6330	313396.1374	Fd BC: Sec Cor, 18 & 19, T20N, R4W / 13 & 24, T20N, R5W
685	331+45.70	1114.48 Lt.	233679.4419	313401.7667	Fd BC: 1/4, Sec 18, T20N, R4W / Sec 13, T20N, R5W
687	371+05.49	130.06 Lt.	236320.0012	315608.4041	Fd AC: MC, Sec 7 / Sec 18, T20N, R4W
688	371+13.95	49.61 Lt.	236319.3606	315689.2977	Fd AC: 1/4, Sec 7 / Sec 18, T20N, R4W
731	423+87.05	481.09 Rt.	241606.7643	315676.6363	Fd BC: 1/4, Sec 6 / Sec 7, T20N, R4W
732	451+65.39	242.60 Rt.	244256.0048	314806.2628	Fd AC: CC Center Sec 6, T20N, R4W - USS 9031
734	454+91.12	1112.30 Lt.	244261.7639	313412.7626	Fd BC: 1/4, Sec 1, T20N, R5W / Sec 6, T20N, R4W
849	429+21.92	1721.71 Lt.	241621.2771	313409.8813	Fd AC: Sec Cor, 6 & 7, T20N, R4W / 1 & 12, T20N, R5W
852	350+93.38	1667.59 Rt.	233674.0279	316924.2832	Fd AC: CC Center Sec 18, T20N, R4W - USS 9031

SURVEY CONTROL LEGEND

- Found AKDOT Control Point
- Found Government Control Station
- Found Temporary Benchmark
- Found Benchmark
- Found BLM Monument
- Found Primary Monument
- Found Secondary Monument
- Point Number Identifier

See Sheet A8

WEB REVIEW
NOT FOR CONSTRUCTION

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AND PUBLIC FACILITY
PARKS HIGHWAY M.P. 72-83
WILLOW TO KASHWITNA

Survey Control Sheet

WC PACIFIC

NOTES:
1) Refer to Sheet A5 for Notes and Control Information.

DESIGNED BY: [Blank]
CHECKED BY: [Blank]
DRAFTED BY: WDC
PLOT CTB: Survey (Half or Full).ctb
PLOT SCALE: 1" = 1'
PLOT VIEW: PS-A5
XREFS:
SCALE 1" = 300'
4504-SCS.dwg

T20N & T21N, R4W, S.M., AK

See Below Left

Horizontal Control This Sheet:

Point	Station	Offset	Northing	Easting	Description
29	465+89.46	23.04 Rt.	245582.2815	314223.4656	Fd Rbr/Pc: TS PH-29
30	485+68.90	20.38 Rt.	247438.8956	313537.0559	Fd Rbr/Pc: TS PH-30
31	506+97.08	16.83 Lt.	249435.6568	312798.3378	Fd Rbr/Pc: TS PH-31
32	521+86.01	11.91 Lt.	250924.1407	312745.5200	Fd Rbr/Pc: TS PH-32
33	533+09.38	11.98 Lt.	252047.5120	312744.5843	Fd Rbr/Pc: TS PH-33
34	548+10.31	23.04 Rt.	253548.4669	312778.4484	Fd Rbr/Pc: TS PH-34
35	557+01.07	20.01 Lt.	254439.1914	312734.7097	Fd Rbr/Pc: TS PH-35
36	568+05.77	11.93 Lt.	255544.0216	312742.0910	Fd Rbr/Pc: TS PH-36
37	577+33.74	15.12 Lt.	256459.2000	312897.5348	Fd Rbr/Pc: TS PH-37
38	592+06.23	20.03 Rt.	257784.8081	313541.2837	Fd Rbr/Pc: TS PH-38
39	603+51.84	11.90 Lt.	258835.3098	313999.4116	Fd Rbr/Pc: TS PH-39
40	621+15.45	12.49 Lt.	260431.8607	314748.6383	Fd Rbr/Pc: TS PH-40
41	636+39.10	11.62 Lt.	261810.5924	315397.1774	Fd Rbr/Pc: TS PH-41
505	557+26.58	965.76 Lt.	254463.9714	311788.9399	Fd Rbr/Ac: Sta PH80.0

Vertical Control This Sheet:

Point	Station	Offset	Northing	Easting	Elevation	Description
717	482+04	89 Lt.	247058	313561	247.90	DOT BM P104 Reset 2002
718	504+71	76 Lt.	249198	312795	225.19	TBM PH-79.0
719	535+44	44 Lt.	252283	312712	224.59	USC&GS BM Q104
720	565+46	112 Lt.	255284	312642	197.68	TBM PH-80.2
721	585+59	110 Rt.	257161	313348	190.87	DOT BM R104 Reset 2002
722	617+38	114 Lt.	260134	314496	163.17	TBM PH-81.2

PI = 462+35.34
N = 245241.6106
E = 314324.3462
Δ = 6°55'55"
R = 2865.00
T = 173.52
L = 346.62

PI = 507+66.79
N = 249494.3814
E = 312758.5353
Δ = 20°10'08"
R = 2865.00
T = 509.53
L = 1008.51

PI = 574+16.30
N = 256154.4409
E = 312753.3970
Δ = 25°12'11"
R = 2865.00
T = 640.48
L = 1260.24

Horizontal Control This Sheet:

Point	Station	Offset	Northing	Easting	Description
747	481+30.44	269.24 Lt.	246927.3735	313416.7584	Fd BC: CC, Sec 6, T20N, R4W / Sec 1, T20N, R5W - Sec 31, T21N, R4W
750	477+16.69	844.12 Rt.	246923.7839	314604.5093	Fd BC: SC, 1/4, Sec 31, T21N, R4W
760	509+30.71	811.24 Lt.	249574.3540	311972.3448	Fd BC: 1/4, Sec 31, T21N, R4W / Sec 36, T21N, R5W
766	534+69.90	530.60 Rt.	252208.4480	313287.0446	Fd BC: W 1/16, Sec 30 / Sec 31, T21N, R4W
781	593+83.97	1109.86 Rt.	257482.3649	314603.2831	Fd BC: 1/4, Sec 19 / Sec 30, T21N, R4W
840	561+14.06	764.23 Lt.	254851.6121	311990.1766	Fd BC: 1/4, Sec 30, T21N, R4W / Sec 25, T21N, R5W
842	561+08.12	531.88 Rt.	254846.6705	313286.2878	Fd Rbr/AC: C-W 1/16, Sec 30, T21N, R4W
847	507+38.35	487.14 Rt.	249569.0416	313285.8006	Fd Rbr/AC: C-W 1/16, Sec 31, T21N, R4W
848	486+36.31	1631.09 Lt.	246931.5499	311964.0007	Fd BC: SC, Sec Cor, Sec 31, T21N, R4W / Sec 36, T21N, R5W

NOTES:

1) Refer to Sheet A5 for Notes and Control Information.



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