

STATE	YEAR	PROJECT DESIGNATION	SHEET NO.	TOTAL SHEETS
ALASKA	2012	CM-0001(282) AKSAS 55659	A4	A4

HORIZONTAL CONTROL						
Point	Station	Offset	Northing	Easting	Elevation	Description
3	88+76.44	196.29 RT	347118.7734	380855.0948	306.39	Fd Rbr/PC[DOT]: GH-3
18	102+15.22	234.97 RT	347860.9318	381957.4855	314.95	Set Rbr/PC[DOT]: GHSCB-18
19	103+22.03	55.91 LT	348163.5633	381877.7453	309.86	Set Rbr/PC[DOT]: GHSCB-19
20	109+72.45	15.46 RT	348530.9435	382415.6433	317.67	Set Rbr/PC[DOT]: GHSCB-20
5	116+42.94	251.56 RT	348849.5695	383044.0498		Fd Rbr/PC[DOT]: GH-5
6	140+75.25	191.70 RT	350671.9354	384657.9708		Fd Rbr/PC[DOT]: GH-6
553	26+29.49	591.20 RT	343824.9384	375088.0481		GPS Fd BC/Conc: GPS OPMGDL
554	402+14.00	7.04 LT	369113.2760	400361.5550		GPS Fd BC/Conc[DOT]: OPHIGL
551	414+50.45	447.50 LT	369911.8237	400083.4353		GPS Fd BC[NGS]: Station Hiland
552	504+41.11	1.94 LT	377846.5326	402720.6401		GPS Fd Plug/Conc[DOT]: Station Chug
555	666+68.92	59.72 LT	389521.4774	406868.9972		GPS Fd BC/Rod[NGS]: Station Armstrong
556	924+32.61	255.50 LT	407629.8353	420527.3776		GPS Fd BC/Rod[NGS]: Station Peter

VERTICAL CONTROL						
Point	Station	Offset	Northing	Easting	Elevation	Description
601	27+37	1635 RT	342820	374780	252.18	Fd BC[MOA]: GAAB 10
701	103+50.86	170.39 RT	348001	382038	329.48	Fd BC/Conc: TBM Ship

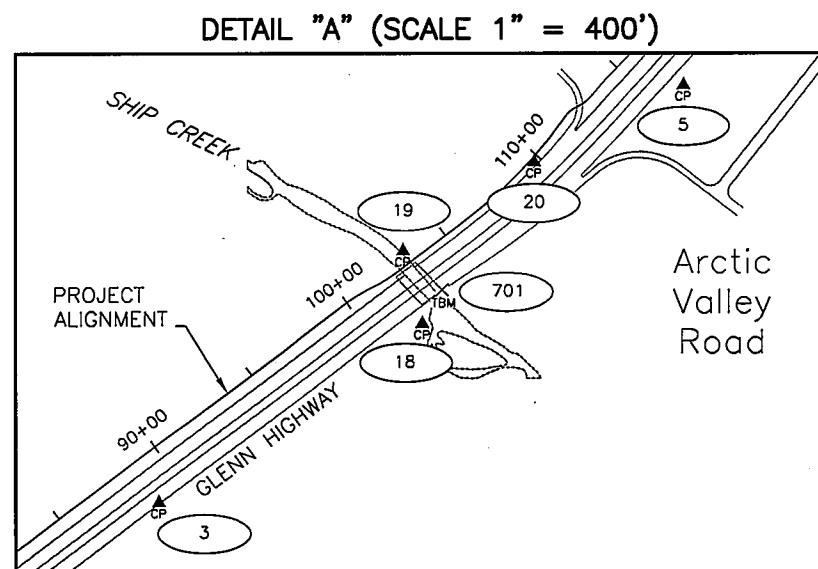
MONUMENTS						
Point	Station	Offset	Northing	Easting		Description
1005	336+87.64	8.84 LT	364874.9185	396539.7333		Fd Al. Pipe: C11 L1-A ASLS 88-211
1004	349+64.49	12.25 LT	365526.6767	397621.3741		Fd AM[3943]: C8 L1-A ASLS 88-211
1003	350+95.94	12.88 RT	365485.0566	397753.7783		Fd BC[3943]: C7 L1-A ASLS 88-211
1002	353+90.24	5.54 LT	365618.5930	398019.3369		Fd Rbr: C6 L1-A ASLS 88-211
1001	610+16.92	4.46 LT	385219.2174	403606.6908		Fd Rbr/AC[5144]: NW L1 B1 Cronquist Acres



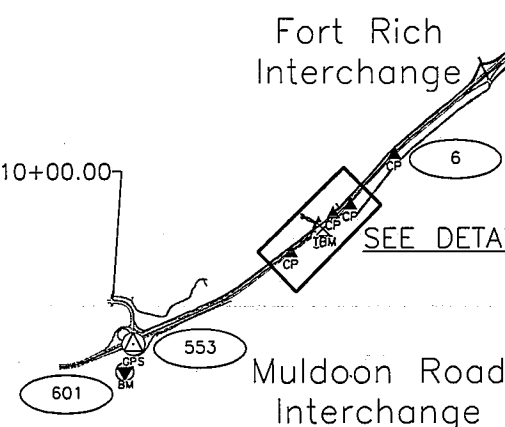
- Legend
- GPS Control Point
  - Control Point
  - Temporary Benchmark
  - Vertical Benchmark
  - Miscellaneous Property Corner
  - Primary Property Corner

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

It is the Project Engineer's responsibility to notify the Department's Survey Manager before termination of traffic control to allow department surveyors to safely check and/or reset any survey monuments which may have been disturbed.



BP STA. 10+00.00



#### Surveyor's Certificate

I hereby certify that I am properly Registered and Licensed to practice Land Surveying in the State of Alaska, and that this drawing represents a survey made by me or under my direct supervision, and that the monuments shown hereon actually exist as described, and that all dimensions and other details are correct to the extent shown hereon.

*Anthony P. Boneto*  
Anthony P. Boneto LS-10393 Date 4/17/12

North Birchwood Interchange

EP STA. 940+00.00

South Birchwood Interchange

North Eagle River Interchange

Artillery Road Interchange

Hiland Road Interchange

Fort Rich Interchange

Muldoon Road Interchange

#### HORIZONTAL CONTROL STATEMENT

##### Coordinate System:

This project is located entirely within the Anchorage Bowl 2000 adjustment, a U.S. Survey Foot local surface grid coordinate system developed by the Alaska Department of Transportation.

##### Basis of Coordinates:

The Basis of Coordinates is NGS Station O'Malley, located near the intersection of the New Seward Highway and O'Malley Road. Said station has Anchorage Bowl 2000 coordinates of 303,939.2310 N, 353,362.5446 E.

##### Basis of Bearings:

The Basis of Bearings is a local plane bearing between NGS Station O'Malley and NGS Station Loop 2 USE RM 3 1964. NGS Station Loop 2 USE RM 3 1964 bears N 01°43'26.4"E a distance of 49,488.45 U.S. Survey Feet from NGS Station O'Malley. NGS Station Loop 2 USE RM 3 1964 has Anchorage Bowl 2000 coordinates of 353,405.2778 N, 354,851.3982 E.

##### Translation Parameters:

To convert the local coordinates to NAD83 (92) State Plane Foot coordinates, translate using +2,296,868.6878 N, +1,312,517.4905 E, and scale using 0.9998910192.

#### VERTICAL CONTROL STATEMENT

MSL 1929 NGVD, MOA 1972 adjustment, as determined by level loops performed by AK DOT between the following benchmarks:

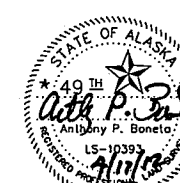
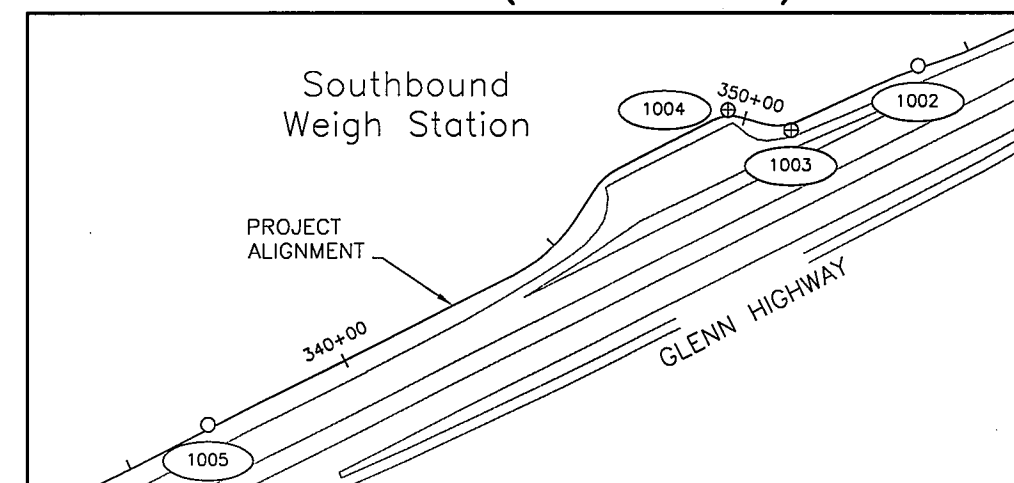
MOA BM GAAB 10, a brass cap and bolt set vertically and facing north on the northwest corner of a Kentucky Fried Chicken restaurant, has an elevation of 252.18 feet (elevation on bolt).

All elevations on control points and benchmarks need to be field verified before they are used.

#### NOTES

- 1) Project control coordinates shown on this sheet were established by using least-squares adjusted, conventional closed-traverse and Static GPS techniques.
- 2) All dimensions and coordinates shown are in U.S. Survey Feet unless otherwise noted. 39.37 Feet = 12 Meters.
- 3) This survey was completed in October 2002, July 2009, and March 2012.
- 4) Background base mapping is for orientation purposes only.

DETAIL "B" (SCALE 1" = 200')



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
&  
PUBLIC FACILITIES  
Survey Control Sheet

CM-0001(282)  
AKSAS 55659  
GLENN HIGHWAY PATH REHABILITATION:  
MULDOON ROAD TO NORTH BIRCHWOOD

DRAWN	TWT	DATE	April 2012	SCALE	1" = 3500'
CHECKED	APB	DATE	April 2012	SHEET	1 OF 1