

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

The vertical control datum is the 1972 MOA Adjustment as determined by a series of level loops performed by AK DOT. The basis of vertical control is point #3, OPDMSW, an aluminum cap set on a rod at the northeast corner of the Seward Highway and Dimond Boulevard overpass. Other published benchmarks held this survey are points #601, as shown on plat 2008-38, Anchorage Recording District; and point #650, MOA 8. Benchmarks MOA 16, MOA 17, and MOA 21 were not held and given project elevations as determined by level loops for this survey.

A Leica DNA 03 digital level was used for all leveling on this project. The elevations were computed in Leica Geo Office software using a length weighted adjustments. All level loops closed within Third-Order tolerances per Federal Geodetic Control Committee Standards and Specifications for Geodetic Control Networks.

All benchmark and control point elevations must be field verified before use.

NOTES

- Project control coordinates shown on this sheet were established by using least-squares adjusted, conventional closed-traverse and Static GPS techniques.
- All dimensions and coordinates shown are in U.S. Survey Feet unless otherwise noted.
- This survey was completed between December 2015 and February 2016.
- Background information is for orientation purposes only and is not a true representation of ROW.

VERTICAL CONTROL				
Point	Northing	Easting	Elevation	Description
601	308680	353555	163.83	Fd BC/Rod[4469]: BM 601 2007
602	311472	353350	144.23	Set RR Spike in 8' Spruce: TBM 602
603	309796	353356	152.32	Set RR Spike in 15' Birch: TBM 603
604	307415	353376	153.80	Scribed 'X' Top E Bolt on Lum Base: TBM 604
605	305770	353722	172.57	Scribed 'X' Top SW Bolt on Mast Lum Base: TBM 605
606	311095	353596	153.58	Scribed 'X' Top W Bolt on Fire Hydrant: TBM 606
607	304019	353664	212.42	Fd AM: MOA 21 (Project Elevation)
611	313819	353236	132.25	Scribed 'X' Top NE Bolt on Signal Pole Base: TBM SEW2-39B
650	311218	352232	123.27	Fd Bolt/Washer: MOA 8
651	307224	352072	138.86	Fd Bolt/Washer: MOA 16 (Project Elevation)
652	305927	354841	221.78	Fd AC/Pipe: MOA 17 (Project Elevation)

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.

*Robert M. Keiner*

Robert M. Keiner

LS-11547

Date

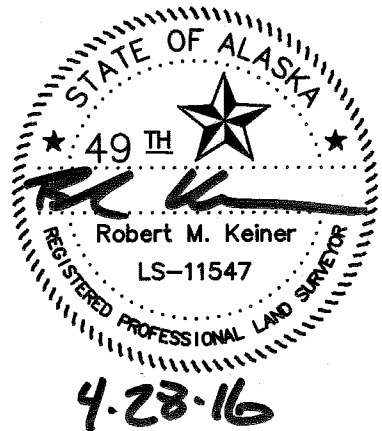
*4/28/2016*  
*Anchorage Recording District PL 2016-38*

HORIZONTAL CONTROL

Point	Northing	Easting	Elevation	Description
3	313845.2755	353495.0595	147.47	Fd AC/Rod[DOT]: OPDMSW
* 27	308542.6331	344378.6463		Fd Rbr/PC[DOT]: MB-7
101	304054.1480	353412.9676	215.61	Set Rbr/PC[DOT]: CP-101
102	304493.9283	353574.1005	203.85	Set Rbr/PC[DOT]: CP-102
103	304953.7078	353410.7389	192.92	Set Rbr/PC[DOT]: CP-103
104	305043.7019	353571.6994	188.31	Set Rbr/PC[DOT]: CP-104
105	305494.5583	353353.1361	177.46	Set Rbr/PC[DOT]: CP-105
106	305404.7714	353631.7134	181.11	Set Rbr/PC[DOT]: CP-106
107	305716.5471	353301.4023	166.18	Set Rbr/PC[DOT]: CP-107
108	305629.0568	353686.7410	175.62	Set Rbr/PC[DOT]: CP-108
109	306028.1683	353323.8805	162.49	Set Rbr/PC[DOT]: CP-109
110	306112.7515	353670.0506	170.38	Set Rbr/PC[DOT]: CP-110
111	306516.8992	353321.1288	158.31	Set Rbr/PC[DOT]: CP-111
112	306578.7074	353533.4823	160.72	Set Rbr/PC[DOT]: CP-112
113	307434.8243	353397.3692	156.52	Set Rbr/PC[DOT]: CP-113
114	307382.3683	353642.9031	156.51	Set Rbr/PC[DOT]: CP-114
115	308003.2632	353348.9963	153.43	Set Rbr/PC[DOT]: CP-115
116	308492.4814	353621.5523	167.67	Set Rbr/PC[DOT]: CP-116
117	308990.0718	353322.1236	177.94	Set Rbr/PC[DOT]: CP-117
118	309569.1344	353545.3423	155.17	Fd SS Rod[DOT]: CP-118 - 1994 BM
119	310039.0671	353385.6728	151.32	Set Rbr/PC[DOT]: CP-119
120	310316.2990	353517.8796	151.21	Set Rbr/PC[DOT]: CP-120
121	310780.7579	353390.9022	151.94	Set Rbr/PC[DOT]: CP-121
122	311231.0969	353558.0124	151.03	Set Rbr/PC[DOT]: CP-122
123	311475.4901	353384.8557	150.98	Set Rbr/PC[DOT]: CP-123
124	312060.2212	353593.8609	147.09	Set Rbr/PC[DOT]: CP-124
401	313326.6743	353582.0147	147.88	Fd Rbr/RPC[USKH]: CONTROL POINT 2008
402	313717.4063	353617.5617	128.73	Fd Rbr/RPC[USKH]: CONTROL POINT 2008
403	313708.2265	353997.5582	137.67	Fd Rbr/RPC[USKH]: CONTROL POINT 2008
404	314482.9461	353502.4005	131.56	Fd Rbr/RPC[USKH]: CONTROL POINT 2008
405	314810.9084	353534.1982	120.32	Fd Rbr/RPC[USKH]: CONTROL POINT 2008
473	315080.0595	353341.7058	116.82	Fd Rbr/RPC[USKH]: CONTROL POINT 2008
474	314602.3884	353384.8993	129.00	Fd Rbr/RPC[USKH]: CONTROL POINT 2008
475	314223.2643	353384.9299	140.44	Fd Rbr/RPC[USKH]: CONTROL POINT 2008
476	313872.3007	353286.2984	127.29	Fd Rbr/RPC[USKH]: CONTROL POINT 2008
477	313508.3317	353320.2656	132.71	Fd Rbr/RPC[USKH]: CONTROL POINT 2008
478	313027.4334	353381.2772	144.10	Fd Rbr/RPC[USKH]: CONTROL POINT 2008
479	312732.4648	353370.4222	144.46	Fd Rbr/RPC[USKH]: CONTROL POINT 2008
502	308719.6861	353554.1097	164.32	Fd Rbr/AC[4469]: AK DOT&PF 502 2007
503	313214.3587	353499.0252	147.63	Fd Rbr/AC[4469]: AK DOT&PF 503 2007
551	303939.2310	353362.5446	233.56	Fd BC[NGS]: GPS O'Malley
552	305931.6943	353519.3035		Fd BC/Rod[NGS]: OPDMSW
* 868	307302.8879	357374.8188		Fd Rbr/PC[DOT]: LOS-3

\* NOT SHOWN

Record of Survey  
This survey does not constitute a subdivision as determined by AS 40.15.900(5).  
Anchorage Recording District  
State Business No Fee



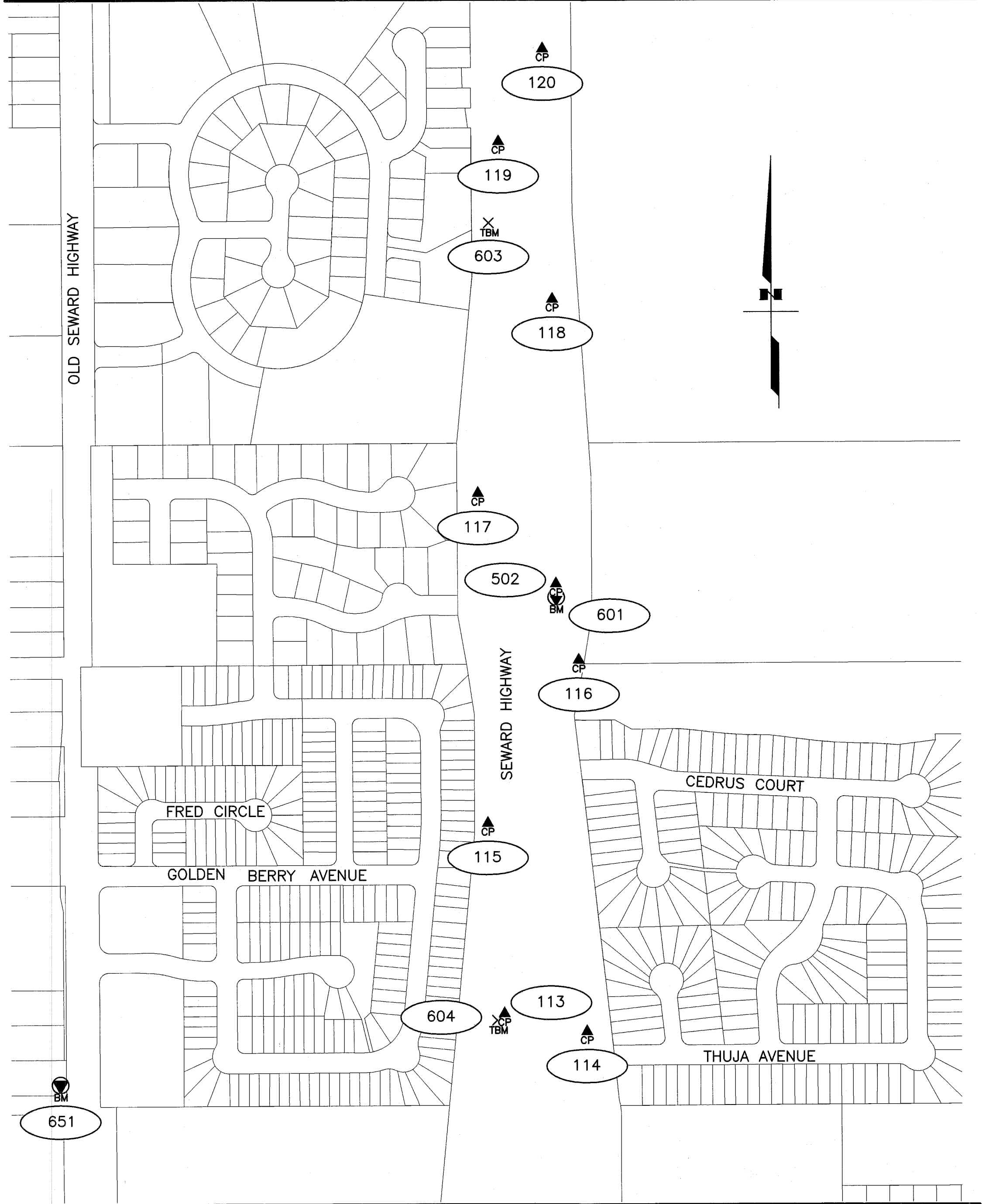
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
&  
PUBLIC FACILITIES  
Survey Control DIAGRAM  
Project No. CFHWY00012

Seward Highway: Dimond to O'Malley Reconstruction

Located within: Sections 8, 17, and 20, T12N, R3W, S.M.

DRAWN	JRB	DATE	04/27/2016	SCALE	1" = 1000'
CHECKED	RMK	DATE	04/27/2016	SHEET	1 OF 3

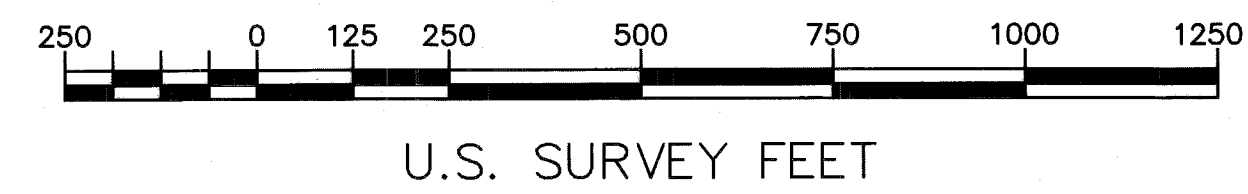
MATCH LINE LEFT



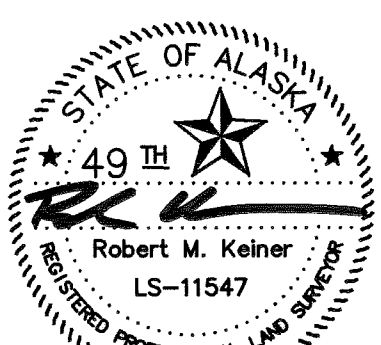
- NOTES
- 1) See sheet 1 for notes and control information.
  - 2) See sheet 3 for cap descriptions.

- LEGEND
- GPS Control Point
  - Control Point
  - Vertical Benchmark
  - Temporary Benchmark

MATCH LINE SHEET 3



Record of Survey  
This survey does not constitute a subdivision  
as determined by AS 40.15.900(5).  
Anchorage Recording District  
State Business No Fee



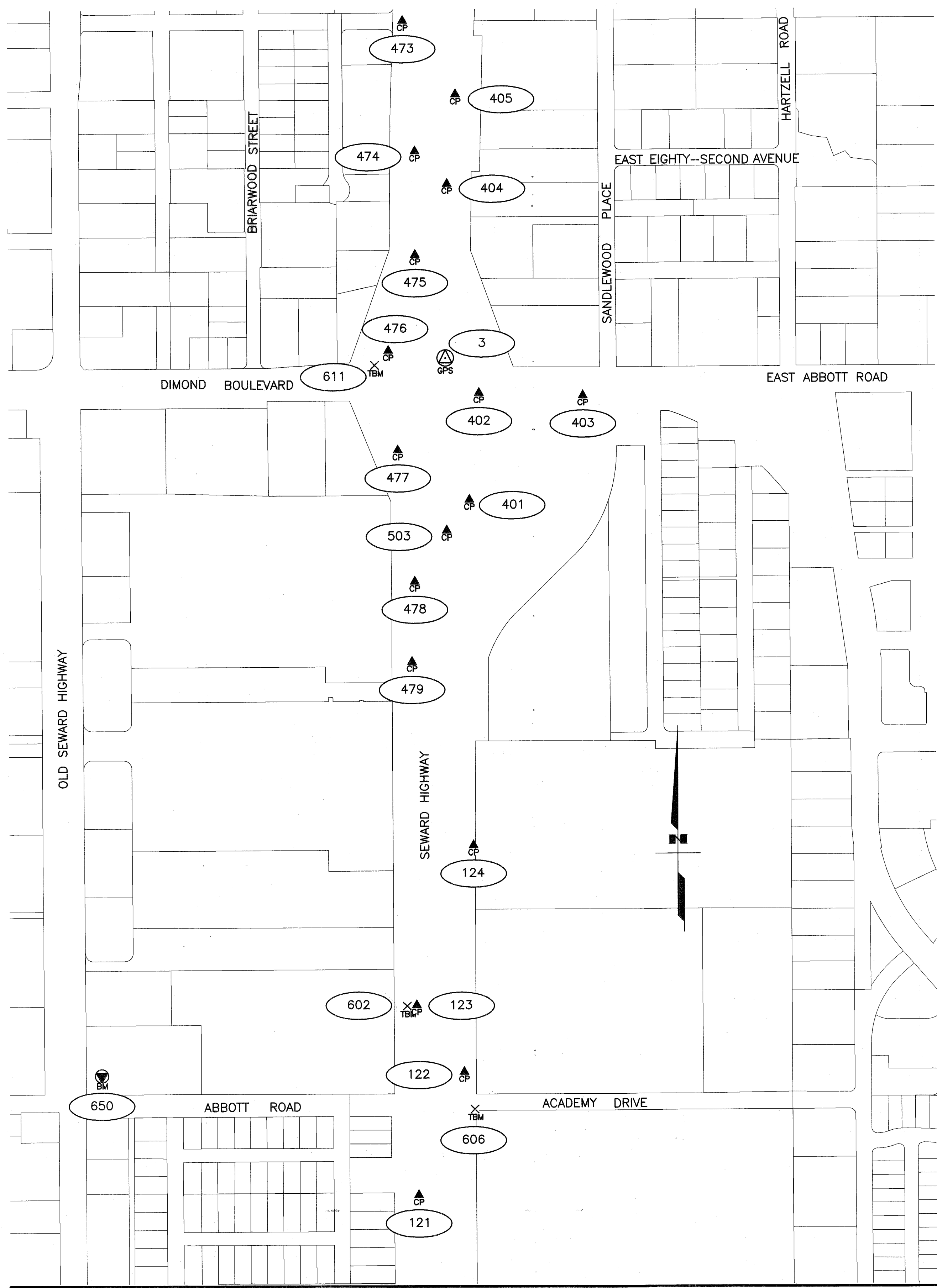
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
&  
PUBLIC FACILITIES  
Survey Control DIAGRAM  
Project No. CFHWY00012  
Seward Highway: Dimond to O'Malley Reconstruction  
Located within: Sections 8, 17, and 20, T12N, R3W, S.M.

DRAWN	JRB	DATE	04/27/16	SCALE	1" = 250'
CHECKED	RMK	DATE	04/27/16	SHEET	2 OF 3

Anchorage Recording District PL 2016-28

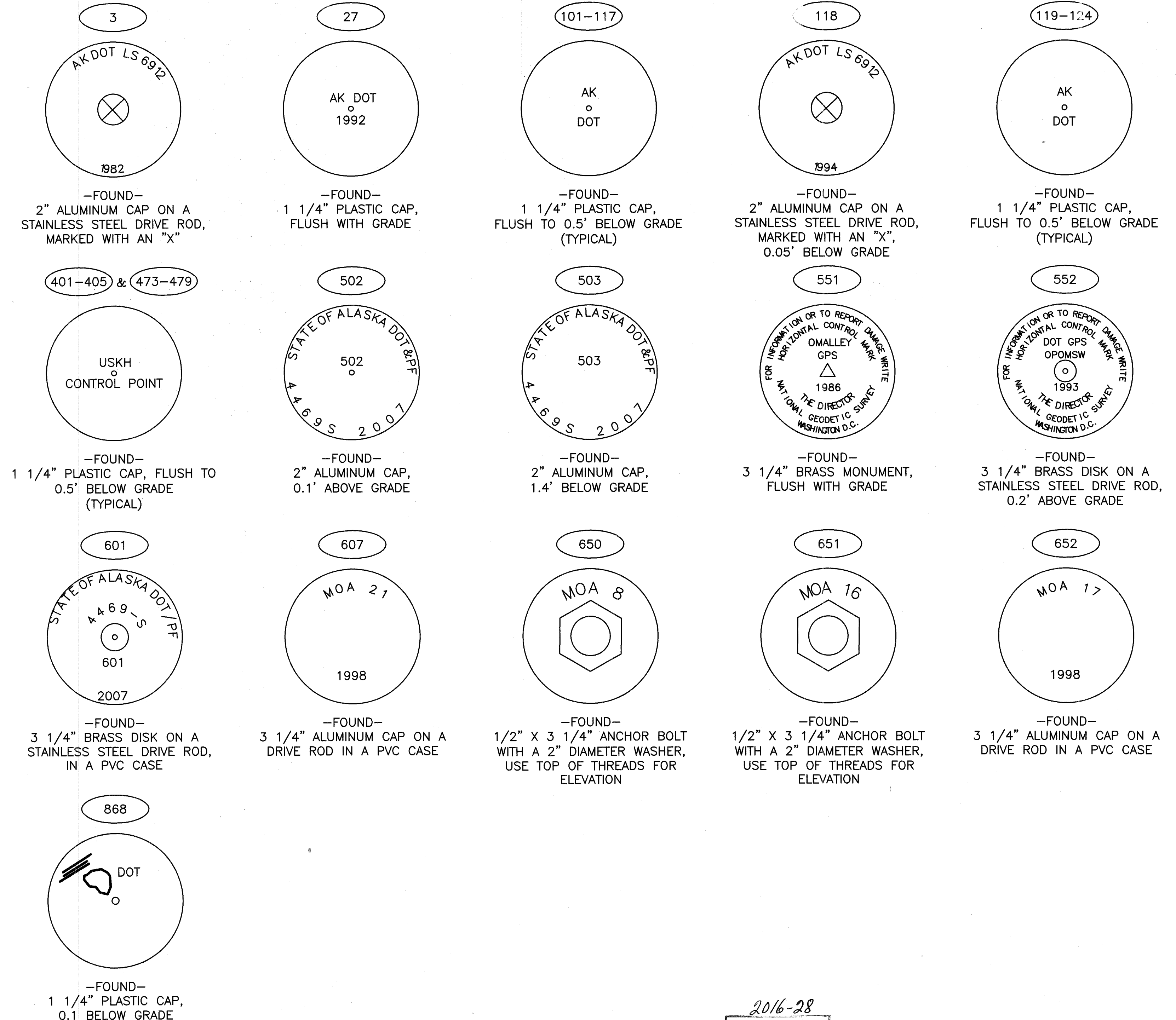
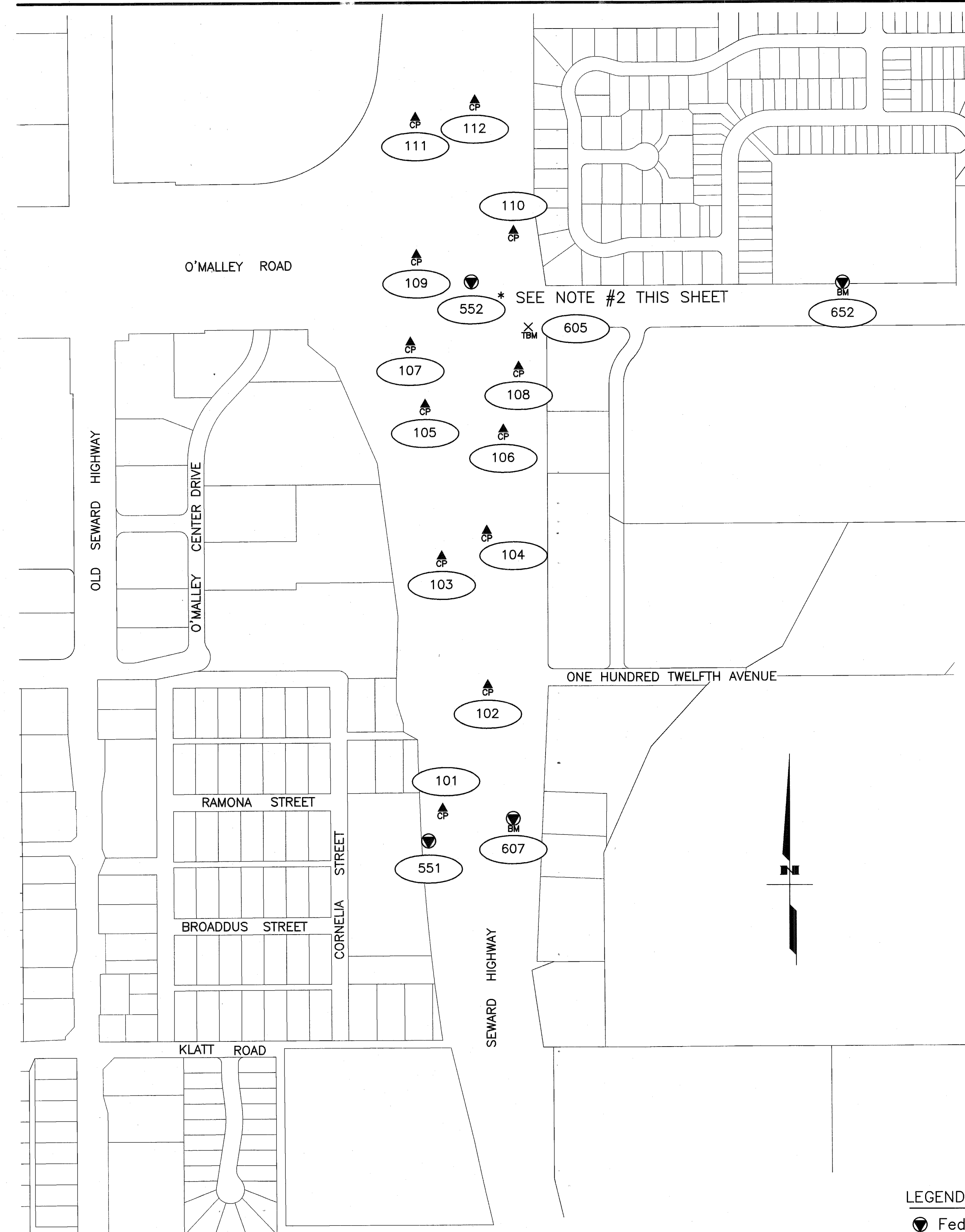
4-28-16

MATCH LINE RIGHT





# MATCH LINE SHEET 2



- LEGEND**
- Federal Control Station
  - ▲ Control Point
  - ⬮ Vertical Benchmark
  - ⓧ TBM Temporary Benchmark

- NOTES**
- See sheet 1 for notes and control information.
  - The record position for point #552 was not held for this survey. Computed project coordinates are shown in the coordinate table on sheet 1. This point was not used to establish any control for this survey.

2016-28  
Plat #  
Anchorage  
Rec Dist  
4-29-2016  
Date  
Time 9:54 A.M.



**Record of Survey**  
This survey does not constitute a subdivision as determined by AS 40.15.900(5).  
Anchorage Recording District  
State Business No Fee

**STATE OF ALASKA**  
DEPARTMENT OF TRANSPORTATION  
&  
PUBLIC FACILITIES  
Survey Control DIAGRAM  
Project No. CFHWY00012  
Seward Highway: Dimond to O'Malley Reconstruction  
Located within: Sections 8, 17, and 20, T12N, R3W, S.M.

DRAWN	JRB	DATE	04/27/16	SCALE	1" = 250'
CHECKED	RMK	DATE	04/27/16	SHEET	3 OF 3