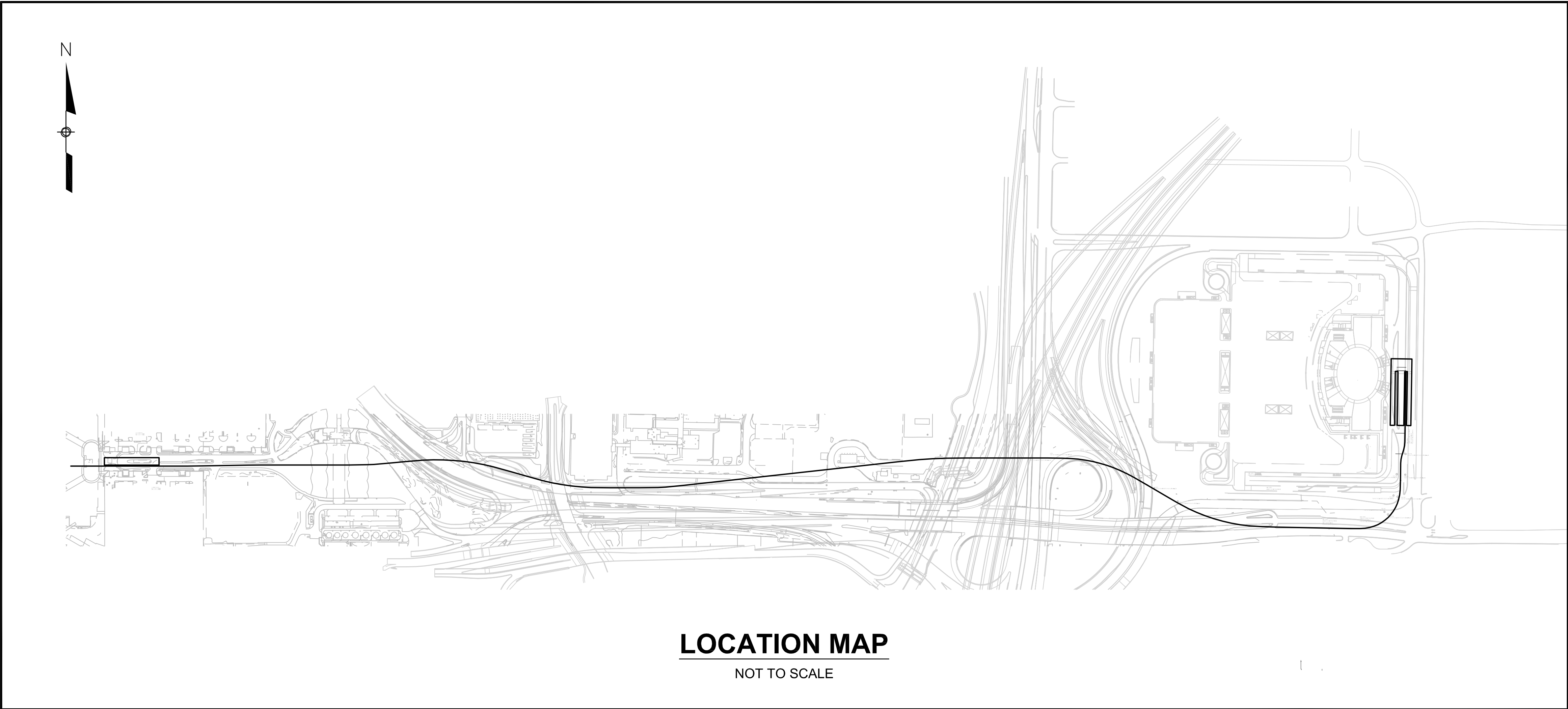


PROJECT NETWORK CONTROL
"BASELINE OF SURVEY MIA-MOVER"



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LEGEND & ABBREVIATIONS								
ABBREVIATION	SYMBOL	DEFINITION	ABBREVIATION	SYMBOL	DEFINITION	ABBREVIATION	SYMBOL	DEFINITION
AH		AHEAD ANTENNA	MDAD		MIAMI DADE AVIATION DEPARTMENT	TK		TRACK
BK		BACK	NAD		NORTH AMERICAN DATUM	TK WB		TRACK EASTBOUND
B/L		BASELINE	NGVD		NATIONAL GEODETIC VERTICAL DATUM	TK WB		TRACK WESTBOUND
CB		CATCH BASIN	N		NORTHING	TH		TEST HOLE
CONC.		CONCRETE	P.K.		PARKER KALON NAIL	TMH		TRAFFIC MANHOLE
C/L		CENTERLINE	PC		POINT OF CURVATURE	TRASH CAN		TRASH CAN
DIA		DIAMETER	PI		POINT OF INTERSECTION	TOP OF PIPE		TOP OF PIPE
E		EASTING	PT		POINT OF TANGENCY	UTILITY BOX		UTILITY BOX
ELEV.		ELECTRIC MANHOLE	RT.		RIGHT	SIGN		SIGN
FH		ELECTRIC UTILITY BOX	SAN		SANITARY MANHOLE	POST		POST
FOUND		ELEVATION	STRM		SEWER STORM MANHOLE	WV		WATER VALVE
L.B.		FIRE HYDRANT	ST		SPIRAL-TO-TANGENT			
L.T.		FOUNDATION	STA.		STATION / STATIONING			
MH		FLORIDA AUTHORIZATION NUMBER	S.V.		SEWER VALVE			
		LIGHT POLE	TBX		TICKET BOX			
		LEFT			TRAFFIC SIGNAL BOX			
		MANHOLE						

SURVEYOR'S NOTES:

- Units are in US Survey Feet.
- Horizontal Information is related to Miami Dade Aviation Department (MDAD) Plane Coordinate System.
- Latitude/Longitude (Horizontal Datum) is related to North American Datum of 1983 (NAD83).
- Vertical Information is relative to the National Geodetic Vertical Datum of 1929 (NGVD29).

MIA MOVER APM SYSTEM
MDAD PROJECT NO. J104A

4450 NW 20th Street
Building 3050, Suite 100
Miami, FL 33122

CONSULTANT:

PRECISION ENGINEERING
GROUP, INC.

2520 N.W. 97th Avenue
Suite 200
Miami, FL 33172
Tel: (305) 715-9090
LB# 6559 EB# 7103

MIAMI INTERNATIONAL AIRPORT

NO.	DATE	SUBMITTAL/REVISION
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DESIGN UNIT VII
PROJECT NETWORK
CONTROL

GENERAL NOTES,
LEGEND & ABBREVIATIONS

DRAWN BY	INVENTION, CORP.	08/03/09
DESIGNED BY		08/03/09
CHECKED BY	G. GUERRERO	08/03/09
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PROJECT NETWORK CONTROL										
	MDAD PLANE COORDINATE SYSTEM		STATE PLANE COORDINATE SYSTEM							
POINT NAME	NORTHING (Y)	EASTING (X)	NORTHING (Y)	EASTING (X)	LATITUDE (N)	LONGITUDE (W)	SCALE FACTOR	CONVERGENCE	ELEVATION	DESCRIPTION
A1	9995.391	10839.240	531890.646	894301.346	25°47'42.52412"	80°16'34.45513"	1.00000620	00°18'53.9"	7.710	3/4" DIAMETER IRON PIPE WITH CAP LB6559
A2	10008.747	11288.608	531926.931	894749.445	25°47'42.85909"	80°16'29.55039"	1.00000645	00°18'56.1"	8.110	3/4" DIAMETER IRON PIPE WITH CAP LB6559
A3	9827.669	11737.887	531769.032	895207.384	25°47'41.27019"	80°16'24.54971"	1.00000670	00°18'58.2"	8.860	3/4" DIAMETER IRON PIPE WITH CAP LB6559
A4	9724.383	12284.336	531693.786	895758.396	25°47'40.49477"	80°16'18.52579"	1.00000700	00°19'00.8"	8.120	3/4" DIAMETER IRON PIPE WITH CAP LB6559
A5	9818.542	12470.384	531797.322	895939.393	25°47'41.51032"	80°16'16.53929"	1.00000710	00°19'01.7"	9.370	3/4" DIAMETER IRON PIPE WITH CAP LB6559
A6	9845.828	12886.814	531845.837	896353.885	25°47'41.96809"	80°16'12.00148"	1.00000733	00°19'03.7"	7.360	P.K. NAIL & TIN TAB WASHER
A7	9835.777	13392.225	531861.608	896859.151	25°47'42.09651"	80°16'06.47254"	1.00000761	00°19'06.1"	7.790	3/4" DIAMETER IRON PIPE WITH CAP LB6559
A8	9827.534	13779.184	531873.136	897246.026	25°47'42.18938"	80°16'02.23914"	1.00000782	00°19'08.0"	15.696	P.K. NAIL & TIN TAB WASHER
A9	10062.017	14649.408	532151.751	898103.140	25°47'44.90157"	80°15'52.84464"	1.00000830	00°19'12.1"	18.266	3/4" DIAMETER IRON PIPE WITH CAP LB6559
A10	9852.193	15135.417	531967.019	898599.230	25°47'43.04444"	80°15'47.42834"	1.00000857	00°19'14.4"	37.250	P.K. NAIL & TIN TAB WASHER
A11	9739.073	15436.951	531869.444	898906.147	25°47'42.06100"	80°15'44.07640"	1.00000874	00°19'15.9"	36.520	P.K. NAIL & TIN TAB WASHER
A12	9774.076	15860.846	531926.048	899327.702	25°47'42.59821"	80°15'39.46081"	1.00000898	00°19'17.9"	18.540	P.K. NAIL & TIN TAB WASHER
A13	9852.270	16598.030	532041.785	900059.930	25°47'43.70374"	80°15'31.44256"	1.00000939	00°19'21.4"	7.710	3/4" DIAMETER IRON PIPE WITH CAP LB6559
A15	9883.410	14023.345	531941.407	897487.014	25°47'42.85228"	80°15'59.59838"	1.00000795	00°19'09.1"	13.696	P.K. NAIL & TIN TAB WASHER
A16	9898.002	13450.321	531926.719	896913.994	25°47'42.73838"	80°16'05.86856"	1.00000764	00°19'06.4"	7.756	3/4" DIAMETER IRON PIPE WITH CAP LB6559
A17	9943.258	13182.191	531958.223	896643.902	25°47'43.06527"	80°16'08.82166"	1.00000749	00°19'05.1"	7.576	P.K. NAIL & TIN TAB WASHER
A18	9937.686	12845.238	531935.452	896307.673	25°47'42.85821"	80°16'12.50165"	1.00000730	00°19'03.5"	6.376	3/4" DIAMETER IRON PIPE WITH CAP LB6559
BL2	10000.000	12131.340	531961.230	895591.524	25°47'43.15278"	80°16'20.33536"	-	-	6.710	FOUND BRASS DISC
H-305	-	-	-	-	-	-	-	-	7.680	1" BRASS DISC IN CONCRETE BASE
MOVER517	9951.669	13920.587	532004.330	897380.905	25°47'43.48134"	80°16'00.75547"	1.00000789	00°19'08.6"	-	BRASS DISC
PNC02A	9865.170	14337.766	531939.247	897801.957	25°47'42.81350"	80°15'56.15280"	1.00000813	00°19'10.6"	8.786	3" DIAMETER BRASS DISC
PNC2103	9727.081	14381.866	531803.590	897853.051	25°47'41.46707"	80°15'55.60208"	1.00000816	00°19'10.8"	34.470	FOUND F.D.O.T. BRASS DISC
PNC2106	9602.058	17429.605	531834.363	900903.198	25°47'41.60225"	80°15'22.22939"	1.00000986	00°19'25.4"	12.900	FOUND F.D.O.T. BRASS DISC

SURVEYOR'S CERTIFICATE:

I Hereby Certify this Project Network Control sketch shown and depicted hereon was done under my responsible charge and meets the Minimum Technical Standards set forth by the Florida Board of Professional Surveyors and Mappers in Chapter 61G17-6 Florida Administrative Code, pursuant to Chapter 472.027 Florida Statutes.

This drawing consisting of eleven sheets is a true, accurate and complete depiction of a field survey performed under my direction and completed on:

Date: August 3rd, 2009.

GUILLERMO GUERRERO, P.S.M.
CERTIFICATE No. L.S.-6453
STATE OF FLORIDA

NOTICE: Not valid without the signature and original raised seal of a Florida Licensed Surveyor and Mapper. Additions or deletions to this Sketch are prohibited without the written consent of the signing party.



MIA MOVER APM SYSTEM
MDAD PROJECT NO. J104A



4450 NW 20th Street
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CONSULTANT:



PRECISION ENGINEERING
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LB# 6559 EB# 7103



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DESIGN UNIT VII
PROJECT NETWORK
CONTROL

PROJECT CONTROL POINTS
& COORDINATES SYSTEM

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CV300		



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PROJECT NETWORK
CONTROL

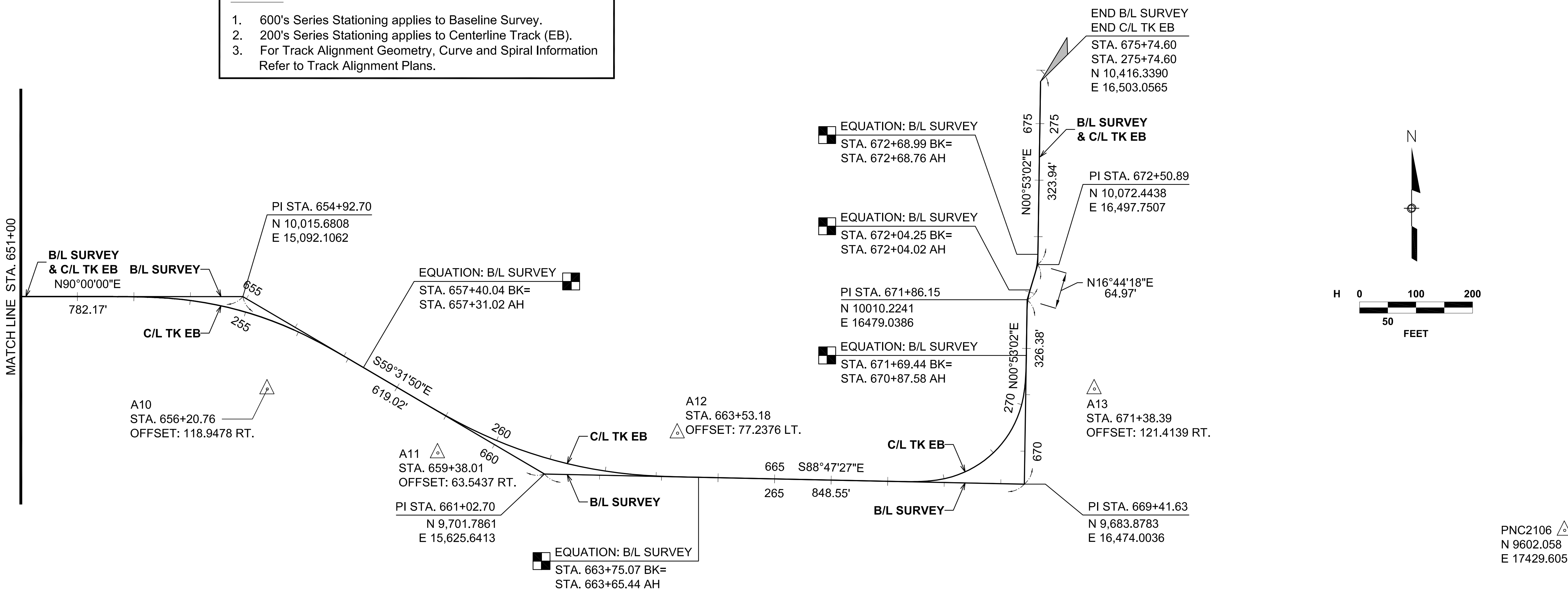
STA. 607+00 TO STA. 651+00

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DRAWING NO.		SHEET NO.	
CV301			

PROJECT NETWORK CONTROL
"BASELINE OF SURVEY MIA-MOVER"

NOTE:

1. 600's Series Stationing applies to Baseline Survey.
2. 200's Series Stationing applies to Centerline Track (EB).
3. For Track Alignment Geometry, Curve and Spiral Information Refer to Track Alignment Plans.



MIA MOVER APM SYSTEM
MDAD PROJECT NO. J104A



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PROJECT NETWORK
CONTROL**

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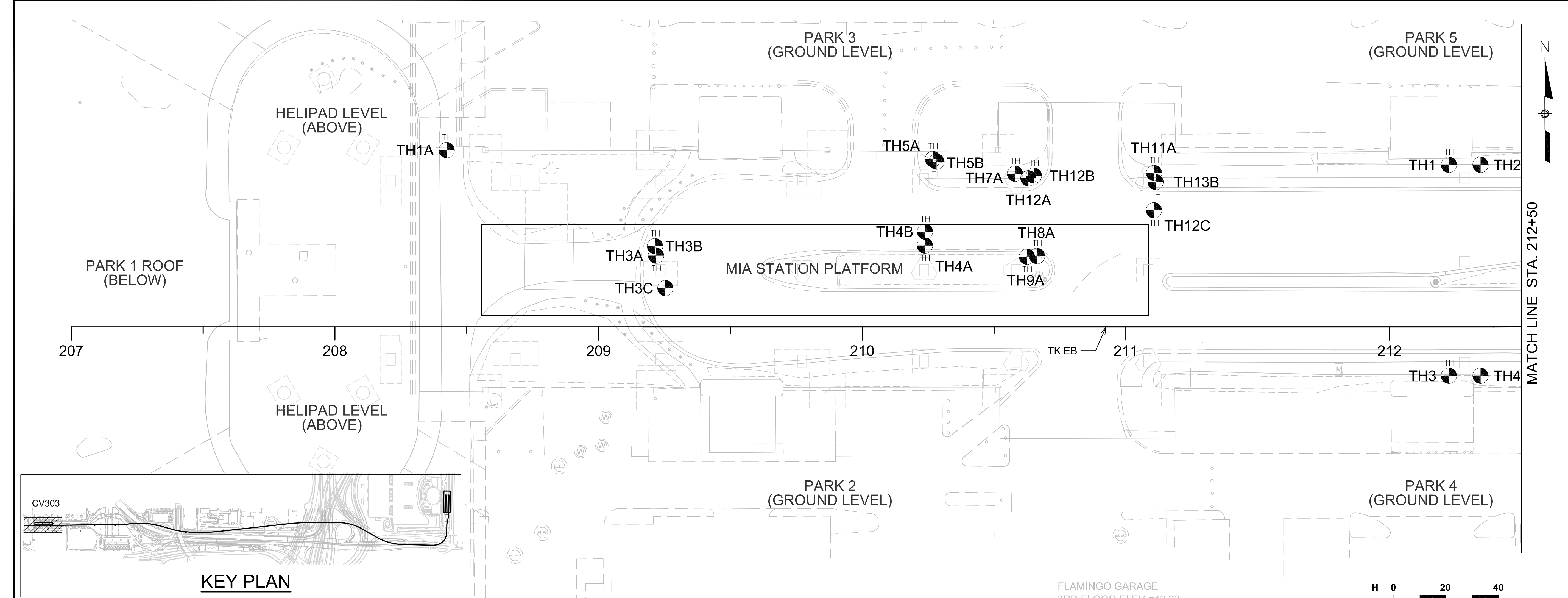
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CV302



MIA MOVER APM SYSTEM
MDAD PROJECT NO. J104A

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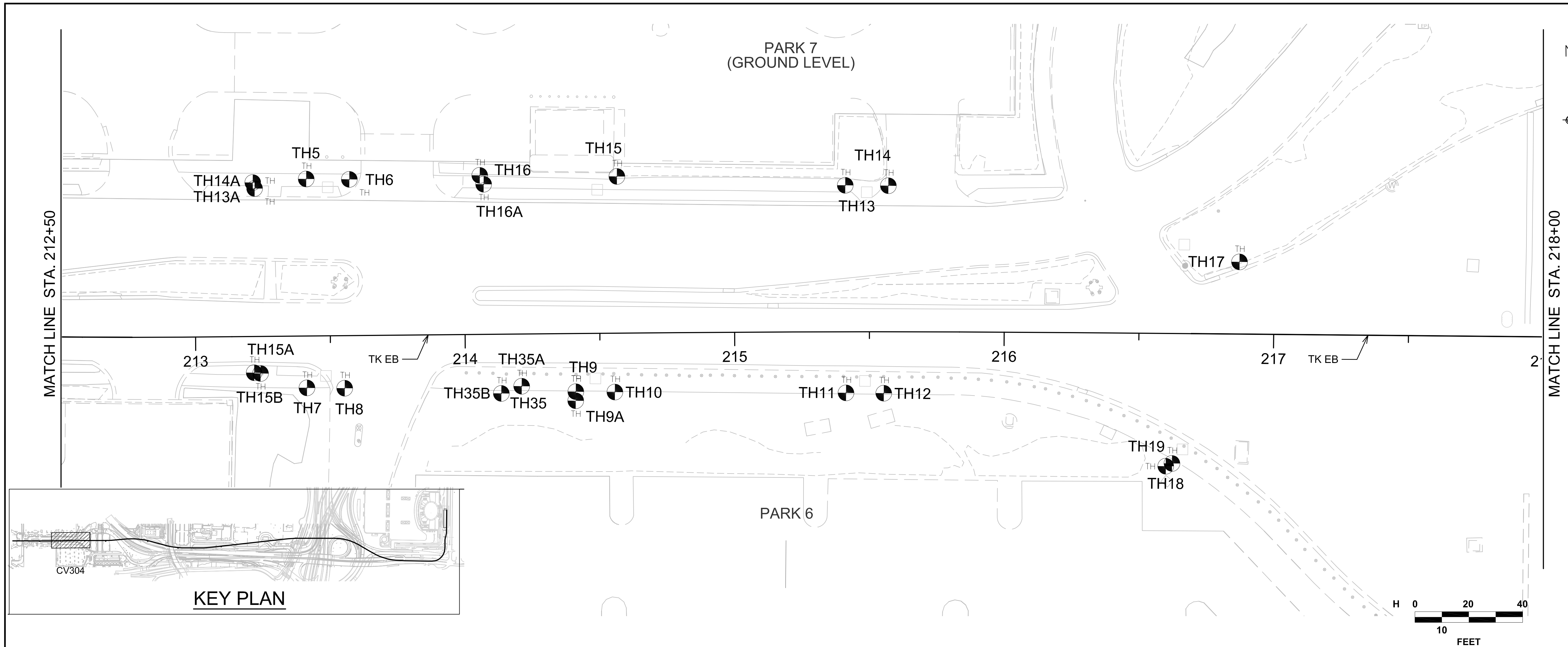
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DESIGN UNIT VII
SOFT DIGS

STA. 207+00 TO STA. 212+50

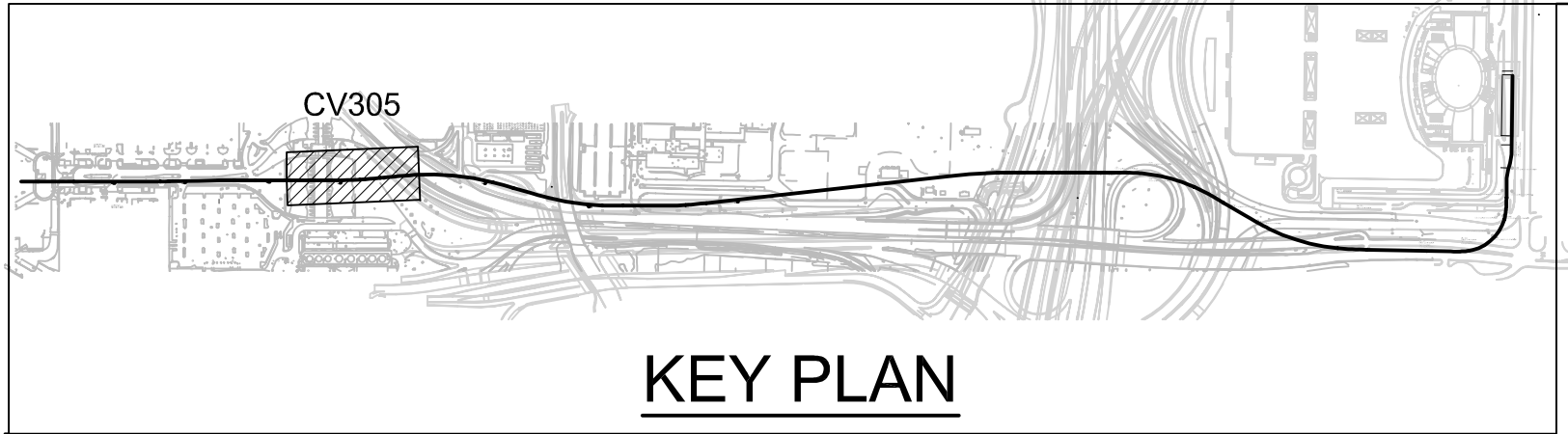
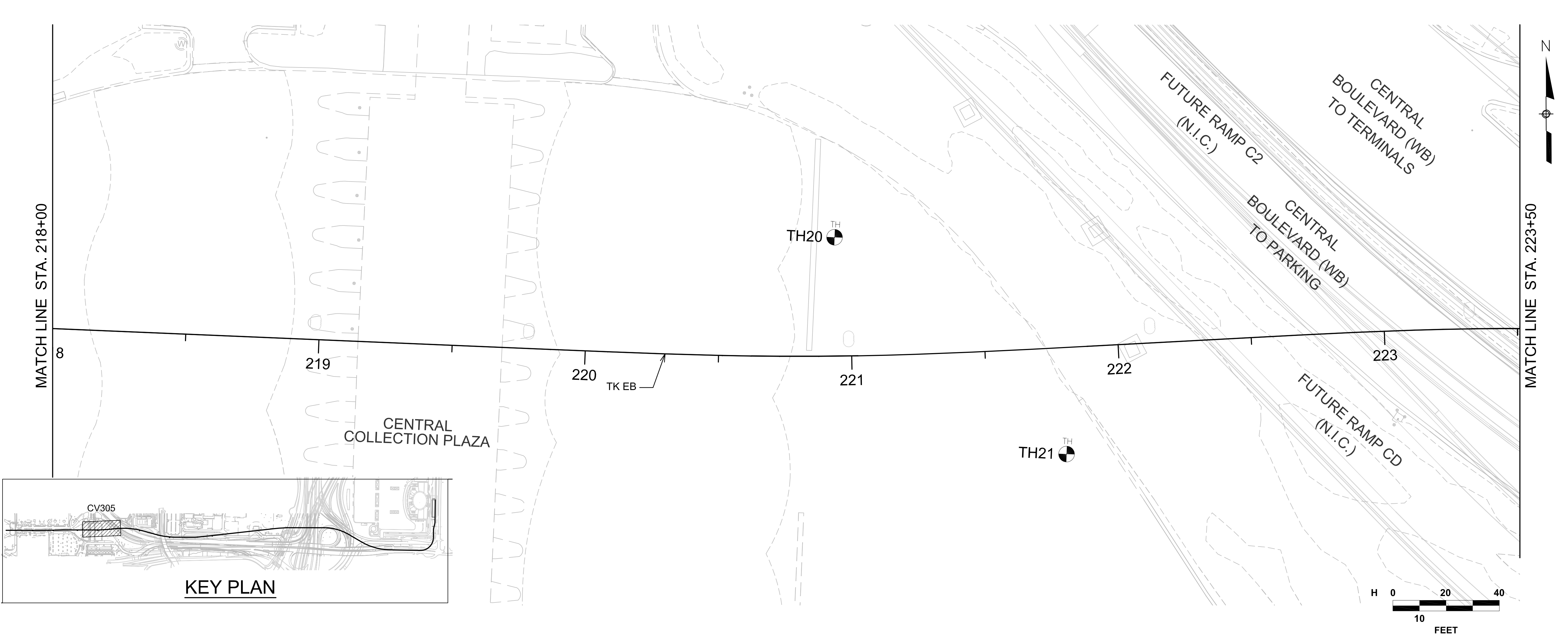
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TEST HOLE REPORT													
TEST HOLE	MDAD PLANE COORDINATE SYSTEM		U.S. FOOT		UTILITY		TEST HOLE	MDAD PLANE COORDINATE SYSTEM		U.S. FOOT		UTILITY	
	NORTHING (Y)	EASTING (X)	GROUND ELEVATION	UTILITY COVER / (TOP) ELEVATION	TYPE	SIZE		NORTHING (Y)	EASTING (X)	GROUND ELEVATION	UTILITY COVER / (TOP) ELEVATION	TYPE	SIZE
TH1	10039.9583	10844.2500	7.89	6.69	IRRIGATION	2"	TH5A	10042.1270	10648.5290	8.40	7.50	ELECTRIC	2"
				6.79	IRRIGATION	3"	TH5B	10041.1660	10649.9060	8.36	5.58	FOC	2-2"
TH1A	10045.5220	10464.1170	7.22	0.92	SANITARY	12"	TH7A	10036.5710	10679.6950	8.49	5.14	WATER	5"
TH2	10039.9583	10856.2500	7.84	6.74	IRRIGATION	3"	TH8A	10005.3640	10688.0340	7.66	2.56	WATER	6"
TH3	9959.9583	10844.2500	7.73	3.63	IRRIGATION	1"	TH9A	10005.0970	10684.2090	7.68	6.08	FOC	2-2"
TH3A	10005.5130	10543.5240	8.13	3.93	STORM	24"	TH11A	10036.8180	10732.4450	8.40	2.75	WATER	12"
TH3B	10009.0920	10543.1490	8.17	5.82	TELEPHONE	18"x8"	TH12A	10034.8520	10684.7660	8.22	6.42	ELECTRIC	3-6"
TH3C	9993.1960	10547.0630	8.11	4.76	WATER	12"	TH12B	10035.8570	10686.8570	8.17	4.27	WATER	6"
TH4	9959.9583	10856.2500	7.72	-	N/A	-	TH12C	10022.6970	10732.4040	7.93	0.38	SANITARY	15"
TH4A	10009.3350	10645.5000	7.50	5.50	FOC	18"x18"	TH13B	10033.4130	10733.0110	8.38	6.38	ELECTRIC	3-6"
TH4B	10014.6190	10645.5460	7.57	0.97	STORM	24"							



TEST HOLE REPORT														
	MDAD PLANE COORDINATE SYSTEM		U.S. FOOT		UTILITY				MDAD PLANE COORDINATE SYSTEM		U.S. FOOT		UTILITY	
TEST HOLE	NORTHING (Y)	EASTING (X)	GROUND ELEVATION	UTILITY COVER / (TOP) ELEVATION	TYPE	SIZE		TEST HOLE	NORTHING (Y)	EASTING (X)	GROUND ELEVATION	UTILITY COVER / (TOP) ELEVATION	TYPE	SIZE
TH5	10037.9548	10962.2500	8.78	7.58	REINFORCED BASE	2'		TH14A	10036.4450	10942.4350	8.66	1.96	WATER	12"
TH6	10037.9548	10978.2500	8.47	6.77	REINFORCED BASE	-		TH15	10039.9575	11077.5000	7.14	-	IRRIGATION	1"
TH7	9960.4548	10963.2500	8.17	-	IRRIGATION	1"		TH15A	9965.8910	10943.6200	8.42	5.97	TELEPHONE	2-3" & 2-2"
TH8	9960.4548	10977.2500	8.05	-	N/A	-		TH15B	9965.6480	10945.9710	8.48	5.68	WATER	12"
TH9	9959.9575	11063.0000	8.07	-	N/A	-		TH16	10039.8900	11026.6210	8.87	7.57	WATER	8"
TH9A	9956.6075	11063.0000	8.10	6.95	UNKNOWN	2"		TH16A	10036.6150	11028.0950	8.82	7.42	ELECTRIC	24"x24"
TH10	9959.9575	11077.5000	7.98	-	N/A	-		TH17	10010.3860	11308.7850	8.14	6.09	FOC	24"x24"
TH11	9960.4509	11163.2500	7.99	-	N/A	-		TH18	9934.3450	11282.1250	8.70	4.60	WATER	8"
TH12	9960.4509	11177.2500	8.02	-	N/A	-		TH19	9935.3920	11284.4170	8.55	-0.85	SANITARY	18"
TH13	10037.4509	11162.2500	8.69	3.59	UNKNOWN	UNKNOWN		TH35	9961.7990	11042.9020	8.58	-	UNKNOWN	-
TH13A	10034.2480	10943.1290	8.48	5.78	TELEPHONE	2-3" & 2-2"		TH35A	9961.7990	11042.9020	8.41	7.51	IRRIGATION	2"
TH14	10037.4509	11178.2500	8.04	-	N/A	-		TH35B	9959.0580	11035.3770	8.31	7.51	IRRIGATION	3"

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TEST HOLE REPORT						
TEST HOLE	MDAD PLANE COORDINATE SYSTEM		U.S. FOOT		UTILITY	
	NORTHING (Y)	EASTING (X)	GROUND ELEVATION	UTILITY COVER / (TOP) ELEVATION	TYPE	SIZE
TH20	10030.0820	11713.3520	9.34	3.84	WATER	12"
TH21	9952.4600	11803.7240	8.36	3.66	WATER	12"

MIA MOVER APM SYSTEM
MDAD PROJECT NO. J104A

PARSONS
ODEBRECHT

4450 NW 20th Street
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MIA
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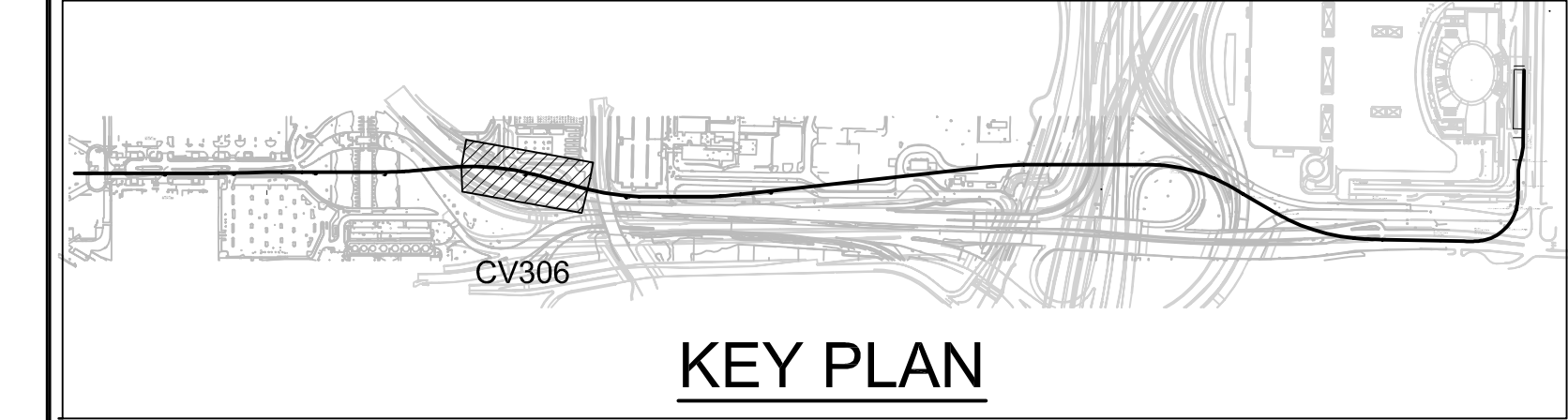
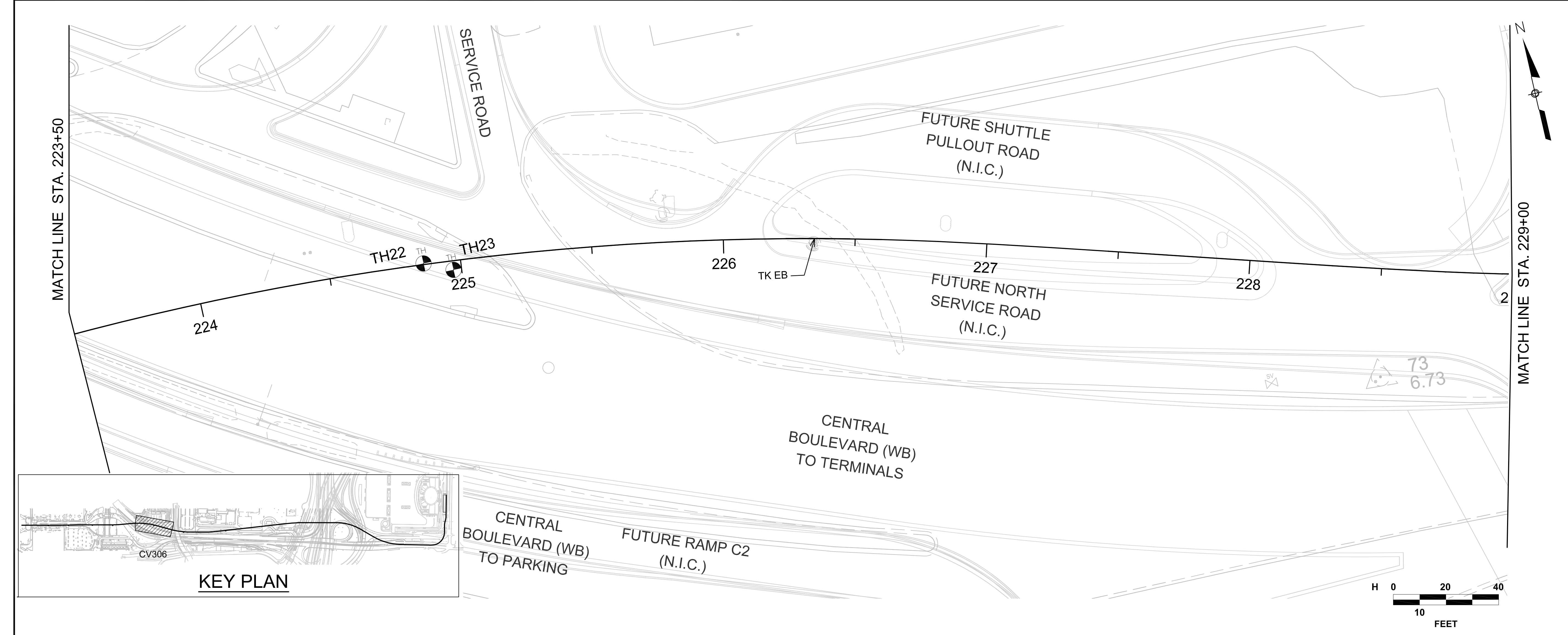
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DESIGN UNIT VII
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CHECKED BY	G. GUERRERO	08/03/09
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TEST HOLE REPORT						
	MDAD PLANE COORDINATE SYSTEM		U.S. FOOT		UTILITY	
TEST HOLE	NORTHING (Y)	EASTING (X)	GROUND ELEVATION	UTILITY COVER / (TOP) ELEVATION	TYPE	SIZE
TH22	10003.9350	12106.6160	7.87	4.62	AT&T	3"x4"
TH23	9999.0910	12117.1940	7.45	4.95	STORM	24"



MIA MOVER APM SYSTEM
MDAD PROJECT NO. J104A



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LB# 6559 EB# 7103



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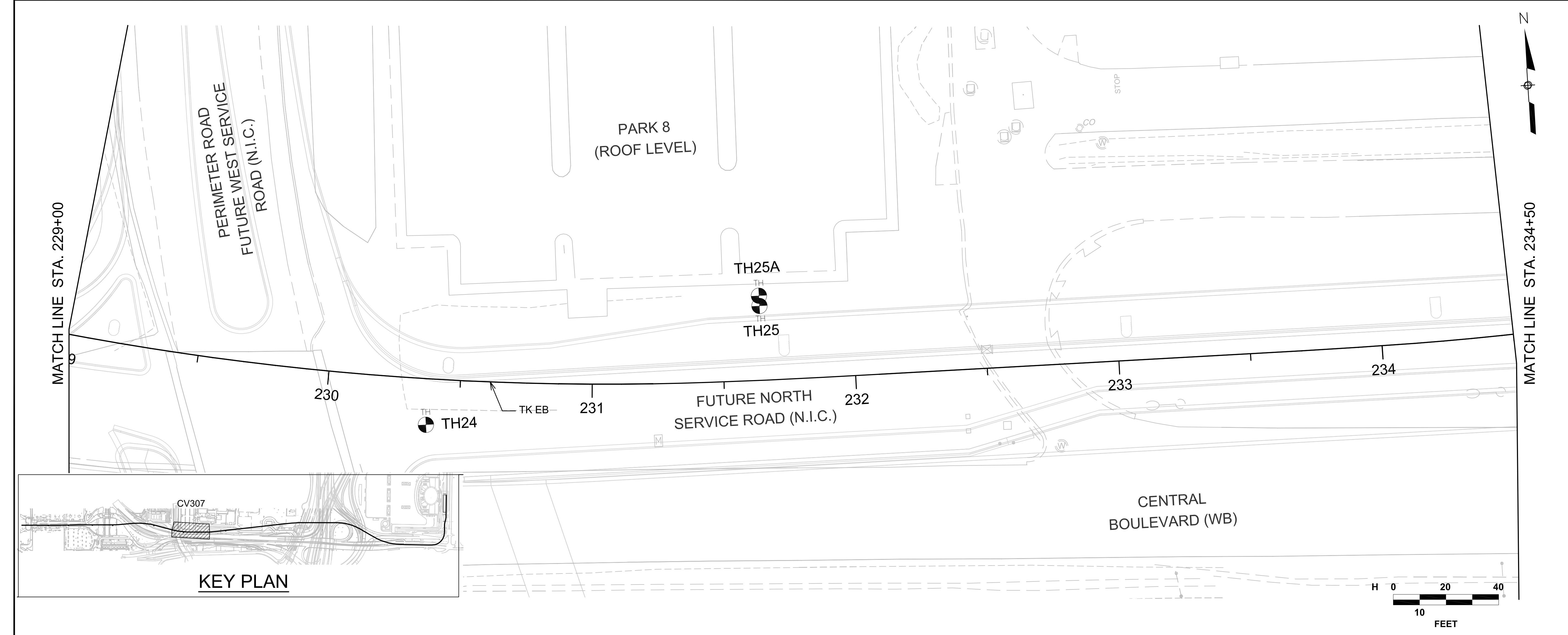
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TEST HOLE REPORT						
TEST HOLE	MDAD PLANE COORDINATE SYSTEM		U.S. FOOT		UTILITY	
	NORTHING (Y)	EASTING (X)	GROUND ELEVATION	UTILITY COVER / (TOP) ELEVATION	TYPE	SIZE
TH24	9868.2430	12642.7810	7.14	5.84	FOC	12"x36"
				5.84	ROUGH POUR	24"x24"
TH25	9906.2920	12771.6020	6.60	4.40	WATER	8"
TH25A	9910.1600	12771.6180	6.66	4.46	FOC	12"x36"
				4.46	B.E.	1-1/4"



MIA MOVER APM SYSTEM
MDAD PROJECT NO. J104A



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