

**ENGINEERING SERVICES, INC. NEW GPS CONTROL MONUMENTATION USING CENTERTON'S RTK BASE STATION**

DESCRIPTION		NORTH	MEAN	EAST	MEAN	ORTHOMETRIC HGT.	DIFF. FROM MEAN						
C-1 1983(1997) SPC - ZONE 0301 NAVD 1988 (NAD83 GPS DERIVED ELLIPSOID HGTS. & GEOID 2012)	ESI RTK OBS. #1 - USFT	742,520.96	-0.03	622,207.87	0.02	1,389.02	-0.01	397.309	ELLIP. HGT. (MT)	397.304	ELLIP. HGT. (MT)	397.319	ELLIP. HGT. (MT)
	ESI RTK OBS. #2 - USFT	742,521.00	0.01	622,207.84	-0.02	1,389.00	-0.02	-28.065	GEOID12 (MT)	-28.065	GEOID12 (MT)	-28.065	GEOID12 (MT)
	ESI RTK OBS. #3 - USFT	742,521.01	0.02	622,207.85	-0.01	1,389.05	0.03	425.374	ANT HGT. (MT)	425.369	ANT HGT. (MT)	425.384	ANT HGT. (MT)
	MEAN POSITION - USFT	<b>742,520.99</b>		<b>622,207.85</b>		<b>1,389.02</b>		2.000	ROD HGT (MT)	2.000	ROD HGT (MT)	2.000	ROD HGT (MT)
	MEAN POSITION - MT	<b>226,320.85</b>		<b>189,649.33</b>		<b>423.38</b>		423.373	ORTHO. HGT. MT	423.368	ORTHO. HGT. MT	423.384	ORTHO. HGT. MT
								<b>1389.018</b>	ORTHO. HGT. USFT	<b>1389.001</b>	ORTHO. HGT. USFT	<b>1389.051</b>	ORTHO. HGT. USFT
							<b>OBS. 1</b>	6/20/2012	<b>OBS. 2</b>	6/26/2012	<b>OBS. 3</b>	6/27/2012	
C-2 1983(1997) SPC - ZONE 0301 NAVD 1988 (NAD83 GPS DERIVED ELLIPSOID HGTS. & GEOID 2012)	ESI RTK OBS. #1 - USFT	755,382.32	-0.02	640,233.58	-0.02	1,371.71	0.00	392.000	ELLIP. HGT. (MT)	392.033	ELLIP. HGT. (MT)	392.033	ELLIP. HGT. (MT)
	ESI RTK OBS. #2 - USFT	755,382.36	0.03	640,233.62	0.02	1,371.71	0.00	-28.098	GEOID12 (MT)	-28.065	GEOID12 (MT)	-28.065	GEOID12 (MT)
	ESI RTK OBS. #3 - USFT	755,382.32	-0.01	640,233.59	0.00	1,371.71	0.00	420.098	ANT HGT. (MT)	420.098	ANT HGT. (MT)	420.098	ANT HGT. (MT)
	MEAN POSITION - USFT	<b>755,382.33</b>		<b>640,233.59</b>		<b>1,371.71</b>		2.000	ROD HGT (MT)	2.000	ROD HGT (MT)	2.000	ROD HGT (MT)
	MEAN POSITION - MT	<b>230,241.00</b>		<b>195,143.59</b>		<b>418.10</b>		418.098	ELEV. MT	418.098	ORTHO. HGT. MT	418.098	ORTHO. HGT. MT
								<b>1371.710</b>	ORTHO. HGT. USFT	<b>1371.709</b>	ORTHO. HGT. USFT	<b>1371.709</b>	ORTHO. HGT. USFT
							<b>OBS. 1</b>	6/20/2012	<b>OBS. 2</b>	6/26/2012	<b>OBS. 3</b>	6/27/2012	
C-3 1983(1997) SPC - ZONE 0301 NAVD 1988 (NAD83 GPS DERIVED ELLIPSOID HGTS. & GEOID 2012)	ESI RTK OBS. #1 - USFT	742,482.80	0.01	644,904.67	0.03	1,258.67	0.07	357.539	ELLIP. HGT. (MT)	357.527	ELLIP. HGT. (MT)	357.559	ELLIP. HGT. (MT)
	ESI RTK OBS. #2 - USFT	742,482.78	-0.01	644,904.60	-0.04	1,258.50	-0.09	-28.103	GEOID12 (MT)	-28.065	GEOID12 (MT)	-28.065	GEOID12 (MT)
	ESI RTK OBS. #3 - USFT	742,482.79	0.00	644,904.66	0.01	1,258.61	0.02	385.642	ANT HGT. (MT)	385.592	ANT HGT. (MT)	385.624	ANT HGT. (MT)
	MEAN POSITION - USFT	<b>742,482.79</b>		<b>644,904.64</b>		<b>1,258.59</b>		2.000	ROD HGT (MT)	2.000	ROD HGT (MT)	2.000	ROD HGT (MT)
	MEAN POSITION - MT	<b>226,309.21</b>		<b>196,567.33</b>		<b>383.62</b>		383.642	ELEV. MT	383.592	ORTHO. HGT. MT	383.624	ORTHO. HGT. MT
								<b>1258.665</b>	ORTHO. HGT. USFT	<b>1258.502</b>	ORTHO. HGT. USFT	<b>1258.607</b>	ORTHO. HGT. USFT
							<b>OBS. 1</b>	6/20/2012	<b>OBS. 2</b>	6/26/2012	<b>OBS. 3</b>	6/27/2012	

**BENTONVILLE GPS CONTROL MONUMENTATION AND COMPARISON TO CENTERTON'S RTK BASE STATION**

#	MONUMENT	ESI OBSERVED - RTK - USFT	NORTH	EAST	POLAR DIST.	ORTHOMETRIC HGT.	VERTICAL DATUM					
# 13 BENTONVILLE GPS MONUMENT	ESI OBSERVED - RTK - USFT		762,156.75	656,200.88		1,074.67	NAVD88	301.414	ELLIP. HGT. (MT)	988.89	ELLIP. USFT	NAD83 GPS DERIVED ELLIP. HGTS.
	NAD 83 (1997)	2010 PUBLISHED - US FT.	762,156.69	656,200.92		1,074.69	NAVD88	-28.145	GEOID12 (MT)	-92.34	GEOID12 USFT	
	SECOND ORDER, CLASS I	DIFFERENCE - US FT.	<b>-0.06</b>	<b>0.04</b>	<b>0.07</b>	<b>0.02</b>		329.559	ANT HGT. (MT)	1081.23	ANT USFT	
								2.000	ROD HGT (MT)	6.56	ROD HGT USFT	
								327.559	ELEV. MT	<b>1074.67</b>	ELEV. USFT	
# 15 BENTONVILLE GPS MONUMENT	ESI OBSERVED - RTK - USFT		731,475.71	645,787.20		1,250.63	NAVD88	355.0855	ELLIP. HGT. (MT)	1164.98	ELLIP. USFT	NAD83 GPS DERIVED ELLIP. HGTS.
	NAD 83 (1997)	2010 PUBLISHED - US FT.	731,475.72	645,787.18		1,250.62	NAVD88	-28.107	GEOID12 (MT)	-92.21	GEOID12 USFT	
	SECOND ORDER, CLASS I	DIFFERENCE - US FT.	<b>0.01</b>	<b>-0.02</b>	<b>0.02</b>	<b>-0.01</b>		383.1925	ANT HGT. (MT)	1257.19	ANT USFT	
								2.000102	ROD HGT (MT)	6.56	ROD HGT USFT	
								381.192	ELEV. MT	<b>1250.63</b>	ELEV. USFT	
# 30 BENTONVILLE GPS MONUMENT	ESI OBSERVED - RTK - USFT		752,760.42	642,783.41		1,316.73	NAVD88	375.239	ELLIP. HGT. (MT)	1231.10	ELLIP. USFT	NAD83 GPS DERIVED ELLIP. HGTS.
	NAD 83 (1997)	2010 PUBLISHED - US FT.	752,760.46	642,783.48		1,316.68	NAVD88	-28.102	GEOID12 (MT)	-92.20	GEOID12 USFT	
	SECOND ORDER, CLASS I	DIFFERENCE - US FT.	<b>0.04</b>	<b>0.07</b>	<b>0.08</b>	<b>-0.05</b>		403.341	ANT HGT. (MT)	1323.29	ANT USFT	
								2.000	ROD HGT (MT)	6.56	ROD HGT USFT	
								401.341	ELEV. MT	<b>1316.73</b>	ELEV. USFT	
# 34 BENTONVILLE GPS MONUMENT	ESI OBSERVED - RTK - USFT		758,758.25	653,047.07		1,081.88	NAVD88	303.625	ELLIP. HGT. (MT)	996.14	ELLIP. USFT	NAD83 GPS DERIVED ELLIP. HGTS.
	NAD 83 (1997)	2010 PUBLISHED - US FT.	758,758.15	653,047.08		1,081.77	NAVD88	-28.133	GEOID12 (MT)	-92.30	GEOID12 USFT	
	SECOND ORDER, CLASS I	DIFFERENCE - US FT.	<b>-0.10</b>	<b>0.01</b>	<b>0.10</b>	<b>-0.11</b>		331.758	ANT HGT. (MT)	1088.44	ANT USFT	
								2.000	ROD HGT (MT)	6.56	ROD HGT USFT	
								329.758	ELEV. MT	<b>1081.88</b>	ELEV. USFT	

# 48 BENTONVILLE GPS MONUMENT		NORTH	EAST	POLAR DIST.	ORTHOMETRIC HGT.	VERTICAL DATUM	356.901	ELLIP. HGT. (MT)	1170.93	ELLIP. USFT	NAD83 GPS DERIVED ELLIP. HGTS.
	ESI OBSERVED - RTK - USFT	750,987.65	650,473.16		1,256.62	NAVD88	-28.117	GEOID12 (MT)	-92.25	GEOID12 USFT	
NAD 83 (1997)	2010 PUBLISHED - US FT.	750,987.59	650,473.12		1,256.62	NAVD88	385.018	ANT HGT. (MT)	1263.18	ANT USFT	
SECOND ORDER, CLASS I	DIFFERENCE - US FT.	-0.06	-0.04	0.07	0.00		2.000	ROD HGT (MT)	6.56	ROD HGT USFT	
							383.018	ELEV. MT	1256.62	ELEV. USFT	
# 58 BENTONVILLE GPS MONUMENT		NORTH	EAST	POLAR DIST.	ORTHOMETRIC HGT.	VERTICAL DATUM	352.213	ELLIP. HGT. (MT)	1155.55	ELLIP. USFT	NAD83 GPS DERIVED ELLIP. HGTS.
	ESI OBSERVED - RTK - USFT	748,457.95	642,683.30		1,241.18	NAVD88	-28.100	GEOID12 (MT)	-92.19	GEOID12 USFT	
NAD 83 (1997)	2010 PUBLISHED - US FT.	748,457.94	642,683.22		1,241.09	NAVD88	380.313	ANT HGT. (MT)	1247.74	ANT USFT	
SECOND ORDER, CLASS I	DIFFERENCE - US FT.	-0.01	-0.08	0.08	-0.09		2.000	ROD HGT (MT)	6.56	ROD HGT USFT	
							378.313	ELEV. MT	1241.18	ELEV. USFT	
# 60 BENTONVILLE GPS MONUMENT		NORTH	EAST	POLAR DIST.	ORTHOMETRIC HGT.	VERTICAL DATUM	359.939	ELLIP. HGT. (MT)	1180.90	ELLIP. USFT	NAD83 GPS DERIVED ELLIP. HGTS.
	ESI OBSERVED - RTK - USFT	746,545.63	647,545.72		1,266.56	NAVD88	-28.108	GEOID12 (MT)	-92.22	GEOID12 USFT	
NAD 83 (1997)	2010 PUBLISHED - US FT.	746,545.55	647,545.69		1,266.71	NAVD88	388.047	ANT HGT. (MT)	1273.12	ANT USFT	
SECOND ORDER, CLASS I	DIFFERENCE - US FT.	-0.08	-0.03	0.08	0.15		2.000	ROD HGT (MT)	6.56	ROD HGT USFT	
							386.047	ELEV. MT	1266.56	ELEV. USFT	
# 82 BENTONVILLE GPS MONUMENT		NORTH	EAST	POLAR DIST.	ORTHOMETRIC HGT.	VERTICAL DATUM	356.392	ELLIP. HGT. (MT)	1169.26	ELLIP. USFT	NAD83 GPS DERIVED ELLIP. HGTS.
	ESI OBSERVED - RTK - USFT	738,273.70	641,951.20		1,254.89	NAVD88	-28.099	GEOID12 (MT)	-92.19	GEOID12 USFT	
NAD 83 (1997)	2010 PUBLISHED - US FT.	738,273.68	641,951.20		1,254.79	NAVD88	384.491	ANT HGT. (MT)	1261.45	ANT USFT	
SECOND ORDER, CLASS I	DIFFERENCE - US FT.	-0.02	0.00	0.02	-0.10		2.000	ROD HGT (MT)	6.56	ROD HGT USFT	
							382.491	ELEV. MT	1254.89	ELEV. USFT	
# 84 BENTONVILLE GPS MONUMENT		NORTH	EAST	POLAR DIST.	ORTHOMETRIC HGT.	VERTICAL DATUM	354.340	ELLIP. HGT. (MT)	1162.53	ELLIP. USFT	NAD83 GPS DERIVED ELLIP. HGTS.
	ESI OBSERVED - RTK - USFT	736,612.33	647,107.24		1,248.18	NAVD88	-28.106	GEOID12 (MT)	-92.21	GEOID12 USFT	
NAD 83 (1997)	2010 PUBLISHED - US FT.	736,612.32	647,107.19		1,248.11	NAVD88	382.446	ANT HGT. (MT)	1254.74	ANT USFT	
SECOND ORDER, CLASS I	DIFFERENCE - US FT.	-0.01	-0.05	0.05	-0.07		2.000	ROD HGT (MT)	6.56	ROD HGT USFT	
							380.446	ELEV. MT	1248.18	ELEV. USFT	
# 98 BENTONVILLE GPS MONUMENT		NORTH	EAST	POLAR DIST.	ORTHOMETRIC HGT.	VERTICAL DATUM	367.940	ELLIP. HGT. (MT)	1207.15	ELLIP. USFT	NAD83 GPS DERIVED ELLIP. HGTS.
	ESI OBSERVED - RTK - USFT	734,754.70	631,173.91		1,292.72	NAVD88	-28.083	GEOID12 (MT)	-92.14	GEOID12 USFT	
NAD 83 (1997)	2010 PUBLISHED - US FT.	734,754.78	631,173.92		1,292.83	NAVD88	396.023	ANT HGT. (MT)	1299.29	ANT USFT	
SECOND ORDER, CLASS I	DIFFERENCE - US FT.	0.08	0.01	0.08	0.11		2.000	ROD HGT (MT)	6.56	ROD HGT USFT	
							394.023	ELEV. MT	1292.72	ELEV. USFT	
# 102 BENTONVILLE GPS MONUMENT		NORTH	EAST	POLAR DIST.	ORTHOMETRIC HGT.	VERTICAL DATUM	353.061	ELLIP. HGT. (MT)	1158.33	ELLIP. USFT	NAD83 GPS DERIVED ELLIP. HGTS.
	ESI OBSERVED - RTK - USFT	732,818.54	640,411.46		1,243.96	NAVD88	-28.100	GEOID12 (MT)	-92.19	GEOID12 USFT	
NAD 83 (1997)	2010 PUBLISHED - US FT.	732,818.57	640,411.42		1,243.87	NAVD88	381.161	ANT HGT. (MT)	1250.53	ANT USFT	
SECOND ORDER, CLASS I	DIFFERENCE - US FT.	0.03	-0.04	0.05	-0.09		2.000	ROD HGT (MT)	6.56	ROD HGT USFT	
							379.161	ELEV. MT	1243.96	ELEV. USFT	
# 112 BENTONVILLE GPS MONUMENT		NORTH	EAST	POLAR DIST.	ORTHOMETRIC HGT.	VERTICAL DATUM	358.282	ELLIP. HGT. (MT)	1175.46	ELLIP. USFT	NAD83 GPS DERIVED ELLIP. HGTS.
	ESI OBSERVED - RTK - USFT	724,642.41	626,782.58		1,261.08	NAVD88	-28.097	GEOID12 (MT)	-92.18	GEOID12 USFT	
NAD 83 (1997)	2010 PUBLISHED - US FT.	724,642.42	626,782.60		1,261.28	NAVD88	386.379	ANT HGT. (MT)	1267.65	ANT USFT	
SECOND ORDER, CLASS I	DIFFERENCE - US FT.	0.01	0.02	0.03	0.20		2.000	ROD HGT (MT)	6.56	ROD HGT USFT	
							384.379	ELEV. MT	1261.08	ELEV. USFT	
# 114 BENTONVILLE GPS MONUMENT		NORTH	EAST	POLAR DIST.	ORTHOMETRIC HGT.	VERTICAL DATUM	350.578	ELLIP. HGT. (MT)	1150.19	ELLIP. USFT	NAD83 GPS DERIVED ELLIP. HGTS.
	ESI OBSERVED - RTK - USFT	724,462.27	631,335.12		1,235.82	NAVD88	-28.101	GEOID12 (MT)	-92.19	GEOID12 USFT	
NAD 83 (1997)	2010 PUBLISHED - US FT.	724,462.32	631,335.12		1,235.92	NAVD88	378.679	ANT HGT. (MT)	1242.38	ANT USFT	
SECOND ORDER, CLASS I	DIFFERENCE - US FT.	0.05	0.00	0.05	0.10		2.000	ROD HGT (MT)	6.56	ROD HGT USFT	
							376.679	ELEV. MT	1235.82	ELEV. USFT	
# 128 BENTONVILLE GPS MONUMENT		NORTH	EAST	POLAR DIST.	ORTHOMETRIC HGT.	VERTICAL DATUM	349.411	ELLIP. HGT. (MT)	1146.36	ELLIP. USFT	NAD83 GPS DERIVED ELLIP. HGTS.
	ESI OBSERVED - RTK - USFT	721,419.87	634,668.52		1,232.02	NAVD88	-28.109	GEOID12 (MT)	-92.22	GEOID12 USFT	
NAD 83 (1997)	2010 PUBLISHED - US FT.	721,419.94	634,668.43		1,232.30	NAVD88	377.52	ANT HGT. (MT)	1238.58	ANT USFT	
SECOND ORDER, CLASS I	DIFFERENCE - US FT.	0.07	-0.09	0.12	0.28		2.000	ROD HGT (MT)	6.56	ROD HGT USFT	
							375.520	ELEV. MT	1232.02	ELEV. USFT	

NATIONAL GEODETIC SURVEY CONTROL MONUMENTATION AND COMPARISON TO CENTERTON'S RTK BASE STATION

NGS MON ID# PID	DESIGNATION	NAD83 (1997)	NORTH	EAST	POLAR DIST.	ORTHOMETRIC HGT.	VERTICAL DATUM	ELLIP. HGT. (MT)	ANT HGT. (MT)	ROD HGT (MT)	ELEV. MT	ELLIP. USFT	ANT USFT	ROD HGT USFT	ELEV. USFT	REMARKS
GG0937	BENTPORT AZ MK	ESI OBSERVED - RTK - USFT	741,907.39	658,854.10		1,287.60	NAVD88	366.342				1201.91				NAD83 GPS DERIVED ELLIP. HGTS.
GG0937	BENTPORT AZ MK	PUBLISHED - US FT.	741,907.40	658,854.05		1,288	NAVD88 - SCALED	-28.119				-92.25				
	FIRST ORDER HORIZ.	DIFFERENCE - US FT.	<b>0.01</b>	<b>-0.05</b>	<b>0.05</b>	<b>0.00</b>		394.461				1294.16				
	VERTICAL SCALED	PUBLISHED - MT	226,133.83	200,819.12				2.000				6.56				
								392.461				1287.60				

  

NGS MON ID# PID	DESIGNATION	NAD83 (1997)	NORTH	EAST	POLAR DIST.	ORTHOMETRIC HGT.	VERTICAL DATUM	ELLIP. HGT. (MT)	ANT HGT. (MT)	ROD HGT (MT)	ELEV. MT	ELLIP. USFT	ANT USFT	ROD HGT USFT	ELEV. USFT	REMARKS
GG0663	POND	ESI OBSERVED - RTK - USFT	750,726.96	612,957.47		1,355.38	NAVD88	387.050				1269.85				NAD83 GPS DERIVED ELLIP. HGTS.
GG0663	POND	PUBLISHED - US FT.	750,438.67	612,946.47		1,354.50	NAVD88	-28.071				-92.10				
	THIRD ORDER HORIZ.	DIFFERENCE - US FT.	<b>-288.29</b>	<b>-11.00</b>	<b>288.50</b>	<b>-0.88</b>		415.121				1361.94				
	THIRD ORDER VERT. ?							2.000				6.56				
								413.121				1355.38				

USC&GS (USGS) CONTROL MONUMENTATION AND COMPARISON TO CENTERTON'S RTK GPS BASE STATION

USC&GS (USGS)	DESIGNATION	ESI OBSERVED - RTK - USFT	NORTH	EAST	POLAR DIST.	ORTHOMETRIC HGT.	VERTICAL DATUM	ELLIP. HGT. (MT)	ANT HGT. (MT)	ROD HGT (MT)	ELEV. MT	ELLIP. USFT	ANT USFT	ROD HGT USFT	ELEV. USFT	REMARKS
18 CLC 1968	18 CLC 1968	ESI OBSERVED - RTK - USFT	727,481.30	614,795.16		1,433.10	NAVD 88	410.725				1347.52				NAD83 GPS DERIVED ELLIP. HGTS.
1929 HGVD BENCHMARK ONLY	1929 HGVD BENCHMARK ONLY	PUBLISHED - US FT.	N/A	N/A		1,432.44	NGVD 29	-28.084				-92.14				
CENTERTON QUADRANGLE	CENTERTON QUADRANGLE	DIFFERENCE - US FT.	N/A	N/A	N/A	0.49	VERTCON 88-29	438.809				1439.66				
CONVERTED TO 88NAVD BY VERTCON	CONVERTED TO 88NAVD BY VERTCON					1,432.93	NGVD29 TO NAVD88	2.000				6.56				
						<b>0.17</b>	DIFF.	436.809				1433.10				

  

USC&GS (USGS)	DESIGNATION	ESI OBSERVED - RTK - USFT	NORTH	EAST	POLAR DIST.	ORTHOMETRIC HGT.	DATUM	ELLIP. HGT. (MT)	ANT HGT. (MT)	ROD HGT (MT)	ELEV. MT	ELLIP. USFT	ANT USFT	ROD HGT USFT	ELEV. USFT	REMARKS
19CLC 1968	19CLC 1968	ESI OBSERVED - RTK - USFT	738,473.75	617,376.15		1,263.70	NAVD 88	359.109				1178.18				NAD83 GPS DERIVED ELLIP. HGTS.
1929 NGVD BENCHMARK ONLY	1929 NGVD BENCHMARK ONLY	PUBLISHED - US FT.	N/A	N/A		1,263.05	NGVD 29	-28.068				-92.09				
CENTERTON QUADRANGLE	CENTERTON QUADRANGLE	DIFFERENCE - US FT.	N/A	N/A	N/A	0.47	VERTCON 88-29	387.177				1270.26				
CONVERTED TO 88NAVD BY VERTCON	CONVERTED TO 88NAVD BY VERTCON					1,263.52	NGVD29 TO NAVD88	2.000				6.56				
						<b>0.18</b>	DIFF.	385.177				1263.70				

AHTD CONTROL MONUMENTATION AND COMPARISON TO CENTERTON'S RTK GPS BASE STATION

AHTD GPS MONUMENT	DESIGNATION	ESI OBSERVED - RTK - USFT	NORTH	EAST	POLAR DIST.	ORTHOMETRIC HGT.	VERTICAL DATUM	ELLIP. HGT. (MT)	ANT HGT. (MT)	ROD HGT (MT)	ELEV. MT	ELLIP. USFT	ANT USFT	ROD HGT USFT	ELEV. USFT	REMARKS
040029A	040029A	ESI OBSERVED - RTK - USFT	766,863.88	633,465.12		1,340.79	NAVD88	382.560				1255.12				NAD83 GPS DERIVED ELLIP. HGTS.
2001	2001	PUBLISHED - US FT.	766,863.77	633,465.13		1,340.62	NAVD88	-28.113				-92.23				
		DIFFERENCE	<b>-0.11</b>	<b>0.02</b>	<b>0.11</b>	<b>-0.17</b>		410.673				1347.35				
								2.000				6.56				
								408.673				1340.79				

  

AHTD GPS MONUMENT	DESIGNATION	ESI OBSERVED - RTK - USFT	NORTH	EAST	POLAR DIST.	ORTHOMETRIC HGT.	VERTICAL DATUM	ELLIP. HGT. (MT)	ANT HGT. (MT)	ROD HGT (MT)	ELEV. MT	ELLIP. USFT	ANT USFT	ROD HGT USFT	ELEV. USFT	REMARKS
BENCHMARK	BENCHMARK	ESI OBSERVED - RTK - USFT	734,492.95	633,833.81		1,259.23	NAVD88	357.726				1173.64				NAD83 GPS DERIVED ELLIP. HGTS.
YEAR UNKNOWN	YEAR UNKNOWN	NOT PUBLISHED - US FT.	N/A	N/A		N/A	NAVD88	-28.088				-92.15				
		DIFFERENCE						385.814				1265.79				
								2.000				6.56				
								383.814				1259.23				