

N

YXHh



J'

N
W

YX

YXHh

UB MA

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W

YXHh

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UB

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YXHh

UB

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XHh

JUBBOC: RR

YXHh

YXHh

CAULE'

YX

YXHh

ARD

YXHh

h YXHh

h YXHh



SYSTEM PARAMETERS

Network status = reduced computed adjusted

Datum = NAD-83

Coordinate System = Geographic

Zone = Global

Linear units = meter

1	B71		2223151.984469	962.6408	YXHh
			282744.520228	987.5420	
2	J71		2205017.059390	933.5565	YX-h YXHh
			303006.731584	958.5160	
3	LUB-MAG		2217617.853259	948.3392	YXHh
			290789.854127	973.2891	
4	LUB001		2207268.403577	973.1042	YXHh
			280413.822204	997.6709	
5	LUB002		2209888.044733	976.5536	YXHh
			274669.761010	1001.0457	
6	LUB003		2213266.579233	967.3880	YXHh
			281791.536397	992.0824	
7	LUB004		2215721.942701	979.1071	YXHh
			276104.131799	1003.7310	
8	LUB005		2219446.651310	968.8003	YXHh
			280983.407864	993.5982	
9	LUB006		2216090.311328	952.1837	YXHh
			287564.630841	977.0456	
10	LUB007		2224142.842471	966.1517	YXHh
			292167.357965	991.2376	
12	LUB008		2220487.276274	947.2108	YXHh
			296472.002764	972.3029	
12	LUB009		2213554.044680	939.3931	YXHh
			293735.545502	964.3237	
13	LUB010		2209570.603883	956.7526	YXHh
			286602.327714	981.4800	
14	LUBBOCK 2 RRP		2212167.513367	951.1744	YXHh
			289583.920924	976.0051	
15	M905		2219651.963906	942.4916	---- YXHh
			290269.770459	967.4684	
16	McCAULEY		2223259.657755	968.2135	---- YXHh
			286613.901274	993.1887	
17	SHEPARD		2205755.714993	965.1533	---- YXHh
			284100.460879	989.7733	
18	V905		2225479.066569	961.8643	---- YXHh
			290701.552762	986.9478	
19	Y905		2217447.193117	986.4523	---- YXHh
			272683.716588	1011.0315	

NAT B3
MINIMALLY CONSTRAINED

2217617.878
290789.671
DIFF
0.0247
0.1831

987.569 DIFF 0.027

DIFF 0.0477
967.471 DIFF 0.003

DIFF 0.0983
993.900 DIFF 0.712

DIFF 0.1230
989.760 DIFF 0.013

DIFF 0.1078
986.969 DIFF 0.022

1011.011 DIFF 0.0206

SYSTEM PARAMETERS

Network status = reduced computed adjusted

Datum = NAD-83

Coordinate System = 1983 State Plane Lambert

Zone = Texas North Central

Linear units = meter



NAD B9
FULLY CONSTRAINED

1	B71	2223151.920241 282744.417481	962.6459 987.5471		
2	J71	2205017.059390 303006.731584	933.5565 958.5160	YX-h	YXHh
3	LUB-MAG	2217617.816613 290789.785013	948.3449 973.2949		
4	LUB001	2207268.309708 280413.784531	973.0761 997.6428		YXHh
5	LUB002	2209887.929473 274669.704999	976.5219 1001.0140		
6	LUB003	2213266.498632 281791.474730	967.3730 992.0674		YXHh
7	LUB004	2215721.840816 276104.052575	979.0877 1003.7117		
8	LUB005	2219446.574936 280983.318755	968.7960 993.5939		YXHh
9	LUB006	2216090.258977 287564.564262	952.1821 977.0441		YXHh
10	LUB007	2224142.819805 292167.262609	966.1715 991.2574		
11	LUB008	2220487.267508 296471.928381	947.2296 972.3218		YXHh
12	LUB009	2213554.015626 293735.497433	939.3962 964.3268		
13	LUB010	2209570.539331 286602.287858	956.7382 981.4656		YXHh
14	LUBBOCK 2 RRP	2212167.464813 289583.873660	951.1697 976.0004		
15	M905	2219651.927570 290269.691995	942.5011 967.4779		
16	McCAULEY	2223259.610237 286613.802848	968.2251 993.2004	YX--	YXHh
17	SHEPARD	2205755.634985 284100.434264	965.1275 989.7475		YXHh
18	V905	2225479.039305 290701.449873	961.8854 986.9690	---h	YXHh
19	Y905	2217447.078710 272683.625724	986.4318 1011.0110	---h	YXHh

SYSTEM PARAMETERS

Network status = reduced computed adjusted
Datum = NAD-83
Coordinate System = 1983 State Plane Lambert
Zone = Texas North Central
Linear units = meter



CITY OF LUBBOCK SURVEY NETWORK

STATIC GPS RESULTS NAD 83 NAVD 88

CB PROJECT NO. 020205010

PROJECT DERIVED COORDINATES (METERS)

NGS PUBLISHED NAD 83 COORDINATES (METERS)

PT NO	NORTHING	EASTING	ELEV	DESCRIPTION	NORTHING	EASTING	ELEV			
1	2207268.3097	280413.7845	997.643	LUB001						
2	2209887.9295	274669.7050	1,001.014	LUB002						
3	2213266.4986	281791.4747	992.067	LUB003						
4	2215721.8408	276104.0526	1,003.712	LUB004						
5	2219446.5749	280983.3188	993.594	LUB005						
6	2216090.2590	287564.5643	977.044	LUB006						
7	2224142.8198	292167.2626	991.257	LUB007						
8	2220487.2675	296471.9284	972.322	LUB008						
9	2213554.0156	293735.4974	964.327	LUB009						
10	2209570.5393	286602.2879	981.466	LUB010						
11	2223259.6102	286613.8028	993.200	McCAULEY	2223259.610	286613.803	993.900	NGS ODER	H DIFF	V DIFF
12	2205017.0594	303006.7316	958.516	J71	2205017.060	303006.732	958.516	H 1st	0.000	0.700
13	2217617.8166	290789.7850	973.295	LUB-MAG	2217617.878	290789.671	973.000	H 2nd / V 1st C-2	0.001	0.000
14	2205755.6350	284100.4343	989.748	SHEPARD	2205755.838	284100.357	989.760	H 2nd	0.074	-0.295
15	2225479.0393	290701.4499	986.969	(TEMP) V905	*	*	986.969	H 1st / V 3rd	0.209	0.013
16	2217447.0787	272683.6257	1,011.011	Y905	*	*	1011.011	V 1st C-2	*	0.000
17	2223151.9202	282744.4175	987.547	(TEMP) B71	*	*	987.569	V 2nd C-0	*	0.000
18	2219651.9276	290269.6920	967.478	(TEMP) M905	*	*	967.471	V 1st C-2	*	0.022
19	2212167.4648	289583.8737	*	LUB RRP	2212167.486	289583.821	*	V 1st C-2	*	-0.007
								H (CORS)	0.024	*

STATIC GPS RESULTS NAD 83 NAVD 88

CB PROJECT NO. 020205010

3.280833333 (METER TO US FEET CONVERSION)

PROJECT DERIVED COORDINATES (US FEET)

NGS PUBLISHED NAD 83 COORDINATES (US FEET)

PT NO	NORTHING	EASTING	ELEV	DESCRIPTION	NORTHING	EASTING	ELEV			
1	7241679.4454	919990.8913	3273.100	LUB001						
2	7250273.9812	901145.5237	3284.160	LUB002						
3	7261358.5035	924510.8632	3254.808	LUB003						
4	7269414.0720	905851.3791	3293.011	LUB004						
5	7281634.3039	921859.4382	3259.816	LUB005						
6	7270622.7906	943451.4078	3205.519	LUB006						
7	7297041.9006	958552.0940	3252.150	LUB007						
8	7285048.6427	972674.9849	3190.026	LUB008						
9	7262301.7989	963697.2111	3163.796	LUB009						
10	7249232.6771	940294.3393	3220.025	LUB010						
11	7294144.2372	940332.1181	3258.525	McCAULEY	7294144.2364	940332.1186	3260.820	<i>NGS ODER</i>	<i>H DIFF</i>	<i>V DIFF</i>
12	7234293.4683	994114.5851	3144.731	J71	7234293.4703	994114.5865	3144.731	<i>H 1st</i>	0.001	2.295
13	7275634.4526	954032.8196	3193.218	LUB-MAG	7275634.6540	954032.4455	3192.251	<i>H 2nd / V 1st C-2</i>	0.002	0.000
14	7236716.6117	932086.1747	3247.197	SHEPARD	7236717.2778	932085.9212	3247.238	<i>H 2nd</i>	0.341	-0.968
15	7301425.8140	953743.0067	3238.081	(TEMP) V905	*	*	3238.081	<i>H 1st / V 3rd</i>	0.730	0.041
16	7275074.2900	894629.5286	3316.959	Y905	*	*	3316.959	<i>V 1st C-2</i>	*	0.000
17	7293790.9242	927637.3096	3239.977	(TEMP) B71	*	*	3240.049	<i>V 2nd C-0</i>	*	0.000
18	7282308.0316	952326.4811	3174.134	(TEMP) M905	*	*	3174.111	<i>V 1st C-2</i>	*	0.072
19	7257752.7567	950076.4255	*	LUB RRP	7257752.8262	950076.2526		<i>V 1st C-2</i>	*	-0.023
								<i>H (CORS)</i>	0.099	*

NAT 27

1	B71	MINIMALLY CONSTRAINED	743423.163518 655079.720449	3156.9586 3238.6573 3238.69	YXHh DIFF 0.033
2	J71		683295.687700 720987.556800	3061.5365 3143.4264 3143.55	YX-- YXHh DIFF 0.1236
3	LUB-MAG	725016.32415 681302.03704	725016.281857 681301.174501	DIFF 0.0473 DIFF 0.8625 3110.0372 3191.8954	---- YXHh
4	LUB001		691386.892286 646937.619902	3191.2848 3271.8862	YXHh
5	LUB002		700160.415249 628174.939223	3202.6011 3282.9578	YXHh
6	LUB003		711022.010948 651644.701519	3172.5325 3253.5527	YXHh
7	LUB004		719254.822397 633062.765760	3210.9819 3291.7711	YXHh
8	LUB005		731322.106557 649186.402971	3177.1651 3258.5252	YXHh
9	LUB006		720105.576190 670672.553067	3122.6472 3204.2170	YXHh
10	LUB007		746379.712362 686024.020863	3168.4777 3250.7819	YXHh
	LUB008		734252.583104 700032.086317	3106.3328 3188.6572	YXHh
12	LUB009		711592.255507 690838.205048	3080.6854 3162.4803	YXHh
13	LUB010		698746.519304 667312.026258	3137.6386 3218.7672	YXHh
14	LUBBOCK 2 RRP		707173.078323 677174.751943	3119.3370 3200.8044	YXHh
15	M905		731705.791730 679658.440549	3090.8492 3172.7956 3172.90	YXHh DIFF 0.104
16	McCAULEY	743655.81714 667777.80766	743655.618175 667777.301984	DIFF 0.1989 DIFF 1.6056 3175.2389 3257.1804 3260.0	---- YXHh DIFF 2.82
17	SHEPARD	686309.146800 658985.095301	686309.146800 658985.095301	1.4777 0.0826 3165.1996 3245.9760 3246.0	---- YXHh DIFF 0.024
18	V905		750809.208529 681256.880834	3154.4116 3236.7082 3236.84	---- YXHh DIFF 0.131
19	Y905		725021.594477 621895.317869	3235.0774 3315.7200	---h YXHh

SYSTEM PARAMETERS

Network status = computed adjusted

Datum = NAD-27

Coordinate System = 1927 State Plane Lambert

Zone = Texas North Central

Linear units = US Survey Foot

JAN

UBI CONTRA NET



UB MAG

UB

UB

UB

UB

UB

UB

UB



UB

UB

UB

UBBOCK RR

CAULEY

SHEARD



h YXHh

YX YXHh

YXHh

YXHh

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YXHh

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h YXHh

YXHh

h YXHh

SYSTEM PARAMETERS

Network status = computed adjusted

Datum = NAD-27

Coordinate System = 1927 State Plane Lambert

Zone = Texas North Central

Linear units = US Survey Foot



CITY OF LUBBOCK SURVEY NETWORK

STATIC GPS RESULTS NAD 27 NGVD 29

CB PROJECT NO. 020205010

PROJECT DERIVED COORDINATES (US FEET)

NGS PUBLISHED COORDINATES (CONVERTED)

PT NO	NORTHING	EASTING	ELEVATION	DESCRIPTION	NORTHING	EASTING	ELEVATION	HORZ DIFF	VERT DIFF
1	691387.9649	646938.5258	3271.90	LUB001					
2	700161.6911	628176.1795	3282.95	LUB002					
3	711022.8065	651645.8659	3253.57	LUB003					
4	719255.8212	633064.2540	3291.80	LUB004					
5	731322.7264	649187.9106	3258.54	LUB005					
6	720105.9776	670673.6593	3204.26	LUB006					
7	746379.5970	686025.3772	3250.87	LUB007					
8	734252.3758	700033.1056	3188.76	LUB008					
9	711592.4302	690838.9659	3162.53	LUB009					
10	698747.1977	667312.8332	3218.79	LUB010					
11	743655.8171	667778.8070	3257.20	McCAULEY	743655.8171	667778.8077	3260.00	0.000	2.80
12	683295.6877	720987.5568	3143.51	J71	683295.6877	720987.5568	3143.55	0.000	0.04
13	725016.4647	681302.2453	3191.96	LUB-MAG	725016.3292	681302.0370	*	0.179	*
14	686310.0856	658985.7945	3246.00	SHEPARD	686310.6245	658985.1778	3246.00	0.919	0.00
15	750809.1209	681258.3568	3236.76	(TEMP) V905	*	*	3236.84		0.08
16	725022.7076	621897.0145	3315.72	Y905			3315.72		0.00
17	743423.5637	655081.3551	3238.69	(TEMP) B71			3238.69		0.00
18	731705.9298	679659.6334	3172.84	(TEMP) M905			3172.9		0.06
19	707173.5137	677175.5871	*	LUB RRP			*		*