

Geodetic Control Network

Surveyed in June, 2003

Prepared by:



G.P.S. SURVEY REPORT GEODETIC CONTROL NETWORK ESTABLISHED BY TEAGUE NALL AND PERKINS FOR THE CITY OF ROWLETT, TX. IN MAY AND JUNE OF 2003

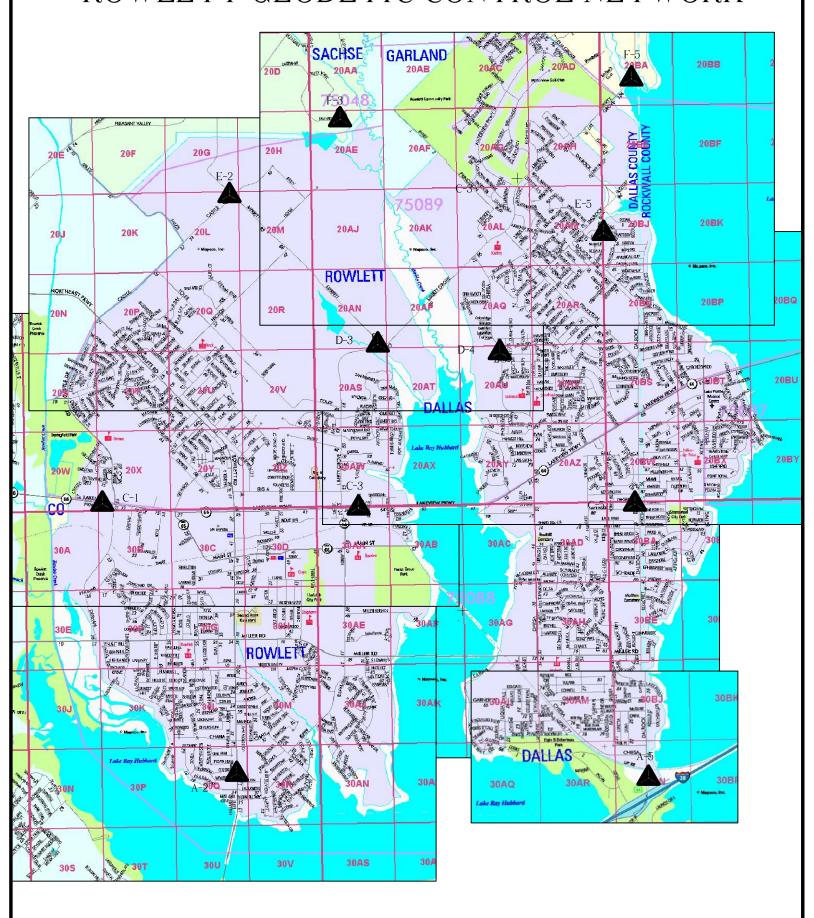
11 Geodetic Control Points were established by the Teague Nall and Perkins Survey Department in the months of May and June of 2003. The purpose of this project was to establish Geodetic Control on the NAD 83(93) System, for citywide control.

The project was performed using Trimble 4000SSi Site Surveyor and Trimble 5700 Series Receivers. The receivers were logging both L1 and L2 frequencies. Trimble Geomatics Office version 1.5 were used to process the baselines. All baselines used were either L1 fixed, or Iono Free Fixed. The adjustment was performed using the Least Squares Adjustment Module in Trimble Geomatics Office.

The City of Rowlett's Geodetic Control Network is based on the N.G.S. A Order Station "Arlington RRP". The Datum used is <u>NAD 83(93)</u>. The State Plane Coordinates published herein are Texas North Central Zone.

The Vertical Datum published herein is based on the N.G.S. First Order Class II Station "Arlington RRP", and the N.G.S. First Order Class II Station "V 1498". The Datum used is NAVD 88.

ROWLETT GEODETIC CONTROL NETWORK



MAPSCO	OF ROWLETT ROAD.	15.4' EAST OF THE WEST CURB	IS LOCATED IN THE CL OF MEDI	DESCRIPTION OF POINTS:		AZIMUTH MARK	DISTANCES & DIRECTIONS	SURVEYOR: TEAGUE NALL AND F PROJECT NAME: ROW01365	CITY: ROWLETT	A-2	
30-Q		OXFORD DRIVE 15.3 NORTH OF MEDIAN CURB. IT IS ALSO LOCATED 15.4' EAST OF THE WEST CURB AND 15.6' WEST OF THE EAST CURB	IS LOCATED IN THE CL OF MEDIAN OF ROWLETT ROAD NORTH OF	SECURITY MONUMENT WITH ACCESS COVER		AZIMUTH DISTANCE	S TO PROMINENT & REFERENCE MARKS	PERKINS PREPARED BY: TWS	COUNTY: DALLAS STATE:	DATE: JI	GEODETIC CONT
ROWLETT ROAD ROWLETT ROAD	OXFORD DR. MON. A-2	FIELD SKETCH:	DATA LONGITUDE 96°34'10.17153" WEST 4/2.10	GEODETIC POSITION NAD 27 □ NAD 83 (93)図 ELEV.(GPS) LATITUDE 32'52'47.32799" NORTH	METRIC CONVERSION FACTOR: 3.2808333333	CODE: 4202 E 2561097.260			NED SCALE FACTOR: 0.999854515	ADJUSTED HORIZONTAL CONTROL D	NTROL DATA SHEET

MAPSCO		OF THE RR TRACKS. IT IS LOC. THE SOUTH MEDIAN, 15.6' EAS: OF THE EAST CURB	OF POI	AZIMUTH MARK		DISTANCES & DIRECTIONS	SURVEYOR: TEAGUE NALL AND PROJECT NAME: ROW01365	JMENT TYPE: BERNTSEN	STATION NAME: A-5	
SCO 30B-N		IT IS LOCATED 12.6' SOUTH OF THE NOSE OF 15.6' EAST OF THE WEST CURB AND 16.6' W	INTS: SECURITY MONUMENT WITH ACCESS COVER CL OF MEDIAN OF DALROCK ROAD 250' SO	AZIMUTH		NS TO PROMINENT & REFERENCE	PERKINS PREPARED BY: 1	Y MONUMENT	DA	GEODE
z		EST	П	DISTANCE COD	NA GRID STATE: ZONE:	ENCE MARKS ZONE: CODE:	TWS G	[‡] ^{zi}	DATE: JUNE 2003	TIC CONTRO
DALROCK ROAD 12.66	RR TRACKS	FIELD SKETCH:	GEODETIC POSITION NAD 2: LATITUDE 32*52*42.97283" DATA LONGITUDE 96*31'06.03617"		D 83 COORDINAT DATA (U.S. SURVEY TX N 7008319.631	NC 4202	D 27 COORDINAT ODATA (U.S. SURVEY	ORDER: 2ND SURVEY	ADJUSTED HORIZONTAL	OL DATA SHEET
DALROCK % ROAD			27 □ NAD 83 (93)⊠ ELEV.(GPS) 33" NORTH 459.73' WEST	3.2	FEET) PLANE AZIMUTH ANGLE (CONVERGENCE) 01.04.50.82402."	00°32'07.92793"	limi I	METHOD: GPS MOTHER II	AL CONTROL DATA	

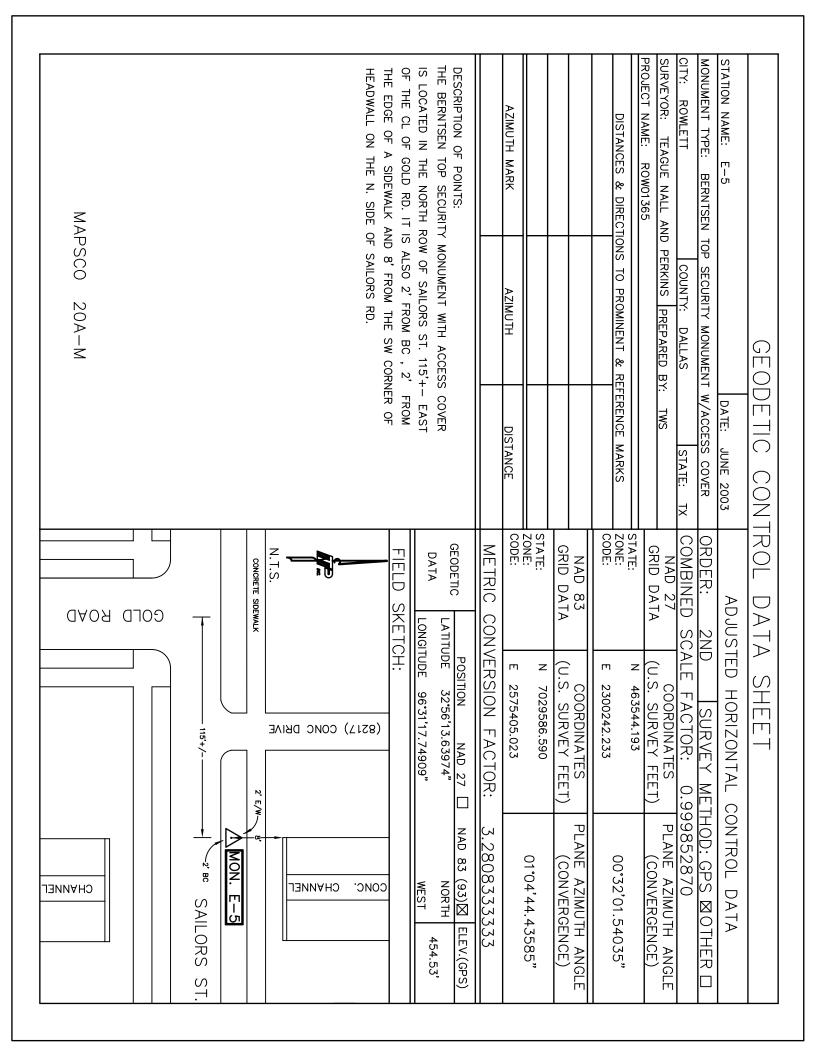
MAPSCO 20-X	0	''' 	DESCRIPTION OF POINTS: THE BERNTSEN TOP SECURITY MOMUMENT WITH ACCESS COVER IS LOCATED IN THE CL OF MEDIAN OF LAKEVIEW PARKWAY 300'	AZIMUTH MARK AZIMUTH DISTANCE CO		DISTANCES & DIRECTIONS TO PROMINENT & REFERENCE MARKS ZOI	SURVEYOR: TEAGUE NALL AND PERKINS PREPARED BY: TWS CARECT NAME: ROW01365 CARECT NAME: NAME	JMENT TYPE: BERNTSEN TOP SECURITY MOMUMENT W/ACCESS COVER	STATION NAME: C-1 DATE: JUNE 2003	GEODETIC CONTRO
N.T.S.	3X3' COLUMN MON. C-1 STATE HWY 66 STATE HWY 66		GEODETIC POSITION NAD 27 ☐ NAD 83 ☑ ELEV.(GPS) LATITUDE 32*54'.31.47508" NORTH DATA LONGITUDE 96*35'08.88757" WEST	II/X I	11	STATE: TX N 453042.382 ZONE: NC 00°29'55.48419" CODE: 4202 E 2280636.245	D 27 COORDINATES DATA (U.S. SURVEY FEE	ORDER: 2ND ISURVEY METHOD: GPS MOTHER []	ADJUSTED HORIZONTAL CONTROL DATA	OL DAIA SHEET

MAPSCO		OF THE EAST MEDIAN CURB	CHESHAM DR. ,11' SE OF AN ELECTRIC PULL BOX AND 15' WEST	IS LOCATED IN THE CL OF MEDIAN OF DALROCK ROAD AT THE	THE BERNTSEN TOP SECURITY MONI	DESCRIPTION OF POINTS:		AZIMUTH MARK			DISTANCES & DIRECTIONS	PROJECT NAME: ROW01365	EYOR: TEAGUE NALL AND PE		E: BERNTSEN TOP	STATION NAME: C-5	
0 30B-A			TRIC PULL BOX AND 15' WEST	OF DALROCK ROAD AT THE	SECURITY MONUMENT WITH ACCESS COVER			AZIMUTH DISTANCE			TO PROMINENT & REFERENCE MARKS		REPARED BY: TWS	COUNTY: DALLAS STATE: TX	IJI	DATE: JUNE 2003	GEODETIC CONT
N.T.S.	CHESHAM DR.		FIELD SKETCH:	LONGITUDE 96*31'05.01899"	LATITUDE 32*54'27.	CEONETIC POSITION NAD 27	METRIC CONVERSION FACTOR:	l	STATE: TX N 7018926.599	NAD 83 COORDINATES GRID DATA (U.S. SURVEY FEET)	ZONE: NC CODE: 4202 E 2301426.842		DATA COORDINAT	ED SCALE FACTOR:	ORDER: 2ND SURVEY ME	ADJUSTED HORIZONTAL (TROL DATA SHEET
DALROCK ROAD				WEST		NAD 83 (93)⊠ ELEV.(GPS)	3.2808333333		01°04'51 37878"	PLANE AZIMUTH ANGLE (CONVERGENCE)	00*32'08.48282"	(CONVERGENCE)	PLANE AZIMUTH ANGLE	<u>2</u> 940	THOD: GPS ⊠OTHER □	CONTROL DATA	

		N.T.S.		MAPSCO 20A-U	MAF
NORTH POINT DR. STONE SIGN MON. D-4 NORTH POINT DR.	CHIESA ROAD NORT				
			EDIAN.	OUTH MEDIAN CURB, 11.5 SOUT 6'EAST OF NOSE OF MEDIAN.	STONE SIGN, 14' NORTH OF SOUTH MEDIAN CURB, 11.5 SOUTH OF NORTH MEDIAN CURB AND 6' EAST OF NOSE OF MEDIAN.
NAD 83 (93)⊠ ELEV.(GPS) NORTH WEST 482.06'	POSITION NAD 27 [LATITUDE 32*55'26.35203" [LONGITUDE 96*32'05.92095" [KETCH:	GEODETIC LAT DATA LON FIELD SKE	S COVER IEDIAN OF A	INTS: SECURITY MONUMENT WITH ACCESS COVER WEST END OF NORTH POINT DR. MEDIAN F CHIESA RD. IT IS ALSO 13' WEST OF A	DESCRIPTION OF POINTS: THE BERNTSEN TOP SECURITY MONUMENT WITH ACCESS COVE IS LOCATED IN THE WEST END OF NORTH POINT DR. MEDIAN AT INTERSECTION OF CHIESA RD. IT IS ALSO 13' WEST OF A
3.2808333333	ONVERSION FACTOR:	METRIC CO			
01°04'18.16319"	N 7024731.574 E 2571390.039	STATE: TX ZONE: NC CODE: 4202	DISTANCE	AZIMUTH	AZIMUTH MARK
PLANE AZIMUTH ANGLE (CONVERGENCE)	COORDINATES (U.S. SURVEY FEET)	NAD 83 GRID DATA			
00°31'35.26878"	N 458727.560 E 2296181.305	STATE: TX ZONE: NC CODE: 4202	REFERENCE MARKS	TO PROMINENT &	င်္ဂ
S PLANE AZIMUTH ANGLE EET) (CONVERGENCE)	COORDINATES		: TWS	D PERKINS PREPARED BY:	SURVEYOR: TEAGUE NALL AND PROJECT NAME: ROW01365
METHOD: GPS MOTHER I	SURVEY	ORDER: 2	COVER	SECURITY	JMENT TYPE:
CONTROL DATA	ED HORIZONTAL		Ē	GEO	STATION NAME: D-A
	· > SHEFT		DETIC CONTROL		

MAPSCO 20-L	WEST OF A POWER POLE. THE MONUMENT IS 27' SOUTH OF THE SOUTH EDGE OF PAVEMENT ON MERRITT RD. AND 3' NORTH OF A BARBED WIRE FENCE.	DESCRIPTION OF POINTS: THE BERNTSEN TOP SECURITY MONUMENT WITH ACCESS COVER IS LOCATED AT THE SOUTHWEST CORNER OF THE INTESECTION OF MERRITT ROAD AND CASTLE DRIVE. THE MONUMENT IS 63' NORTHWEST OF THE INTERSECTION OF THE CENTERLINE OF MERRITT AND CASTLE DR. THE MONUMENT IS 29' WEST OF A STOP SIGN.	AZIMUTH MARK AZIMUTH DISTANCE		DISTANCES & DIRECTIONS TO PROMINENT & REFERENCE MARKS	SURVEYOR: TEAGUE NALL AND PERKINS PREPARED BY: TWS PROJECT NAME: ROW01365	BERNTSEN TOP SECURITY MONUMENT W/ACCESS COVER	STATION NAME: E-2 DATE: JUNE 2003	GEODETIC CONT
// ss. 1	MERRITT ROAD A 3' BARBED WIRE FENCE WIRE FENCE A 3' BARBED WIRE FENCE WIRE FENCE A 3' BARBED WIRE FENCE WIRE FENCE A 3' FROM FENCE A 3' FROM FENCE A 3' FROM FENCE A 3' FROM FENCE A 3' BARBED WIRE FENCE A 29' MON. E-22' 27' E/A	POSITION NAD 27 NAD 83 (93) ELEV.(GPS)	ZONE: NC	DATA (U.S	STATE: TX	COORDINATES (U.S. SURVEY FEE	ORDER: 2ND SURVEY METHOD: GPS MOTHER COMBINED SCALE FACTOR: 0 999849447	ADJUSTED HORIZONTAL CONTROL DATA	TROL DATA SHEET

MAPSCO	GROVE RD. ,21' NE OF PAVEMEN OF A PP AND 62' NW OF A PP.	DESCRIPTION OF POINTS: THE BERNTSEN TOP SECURITY MONUMENT WITH ACCESS IS LOCATED IN FRONT OF 7500 MERRITT RD. NORTH OF		AZIMUTH MARK		DISTANCES & DIRECTIONS	AGUE NALL AND ROW01365	CITY: ROWLETT	Įψ	
SCO 20A-N	OF A PP.			AZIMUTH D		S TO PROMINENT & REFERENCE	PERKINS PREPARED BY: TWS	COUNTY: DALLAS STATE:		GEODET
N.T.S.	FELD	GEODETIC DATA	METRIC	STATE: TX ZONE: NC CODE: 4202	NAD 83 GRID DAT	E MARKS STATE: IX ZONE: NC CODE: 4202	GRID	TX COMBIN	03	IC CONTROL [
	SKETCH: CONC DR. MON. E-3	POSITION NAD 27 ☐ LATITUDE 32.55.32.31766." LONGITUDE 96.33.02.24233."	CONVER	N 7025244.919 D2 E 2566579.403	A (U)2 E 2291375.874		D SCALE FACTOR:	D HORIZONTAL	DATA SHEET
LIBERT	GROVE PD.	NAD 83 (93)⊠ ELEV.(GPS) NORTH WEST 469.989'	3.2808333333	01°03'47.44582"	PLANE AZIMUTH ANGLE (CONVERGENCE)	00°31'04.55278"	PLANE AZIMUTH ANGLE (CONVERGENCE)	0.999852549		



MAPSCO 20A-E	OF THE INTERSECTION OF THE PIPE AND CABLE FENCE	20' NE OFF OF THE BACK OF CURB OF THE CUL-DE-SAC AND 24' SW	LOCATED AT THE NE CORNER OF THE CUL-DE-SAC OF EASTVIEW DRIVE.	DESCRIPTION OF POINTS: THE BERNTSEN TOP SECURITY MONUMENT WITH ACCESS COVER IS		AZIMUTH MARK AZIMUTH DISTANCE		DISTANCES & DIRECTIONS TO PROMINENT & REFERENCE MARKS	PROJECT NAME: ROW01365	R: TEAGUE NALL AND PERKINS PR	CITY: ROWLETT COUNTY: DALLAS STATE: TX	E: BERNTSEN TOP SECURITY MONUMENT W/ACCES	STATION NAME: F-3 DATE: JUNE 2003	GEODETIC CON
EASTVIEW DR. COUC DRIVE (#6808)	PIPE AND CABLE FEN	FIELD SKETCH:	DATA LONGITUDE 96*33'16.70988" WEST 452.76	TIC POSITION NAD 27 □ NAD 83 (93)図 E LATITUDE 32*56'59.22031" NORTH	METRIC CONVERSION FACTOR: 3.2808333333	CODE: 4202 E 2565183.948	NAD 83 COORDINATES PLANE AZIMUTH ANGLE GRID DATA (U.S. SURVEY FEET) (CONVERGENCE)	ZONE: NC CODE: 4202 E 2290063.861 00°30'56.66268"	₹ Ş	COORDINATES PLAN	COMBINED SCALE FACTOR: 0.999852540	ORDER:	ADJUSTED HORIZONTAL CONTROL DATA	CONTROL DATA SHEET

MAPSCO	DESCRIPTION OF POINTS: THE BERNTSEN TOP SECURITY MONUMENT WITH ACCESS COVER IS LOCATED IN THE EAST ROW OF LIBERTY GROVE ROAD 19.5' NE OF THE NE CORNER OF THE BRIDGE OVER A CREEK AND IS 125.5' SE OF THE NORTH END OF THE GUARDRAIL LOCATED EAST OF THE DRIVEWAY OF 11002 LIBERTY GROVE ROAD	AZIMUTH MARK	STATION NAME: F-5 MONUMENT TYPE: BERNTSEN TOP CITY: ROWLETT SURVEYOR: TEAGUE NALL AND PE PROJECT NAME: ROW01365 DISTANCES & DIRECTIONS
3CO 20B-A	F POINTS: TOP SECURITY MONUMENT WITH ACCESS COVER THE EAST ROW OF LIBERTY GROVE ROAD 19.5' CORNER OF THE BRIDGE OVER A CREEK AND IS HE NORTH END OF THE GUARDRAIL LOCATED DRIVEWAY OF 11002 LIBERTY GROVE ROAD	AZIMUTH DISTANCE	GEODETIC CONT DATE: JUNE 2003 PERKINS PREPARED BY: TWS NS TO PROMINENT & REFERENCE MARKS
N.T.S. LINGGAD CONC BRIDGE CONC BRIDGE CONC BRIDGE CONCERNO. F-5	GEODETIC POSITION NAD 27 NAD 83 (93) ELEV.(GPS)	DATA (U.S. SURVEY FEET) (CONVERGEN (NAD 83 ADJUSTED HORIZONTAL CONTROL DATA ADJUSTED HORIZONTAL CONTROL DATA SURVEY METHOD: GPS ⊠OTHER □ SURVEY METHOD: GPS ⊠OTHER □ SURVEY FEET) CONVERGENCE (CONVERGENCE) PLANE AZIMUTH ANGLE (CONVERGENCE) O0*32*09.17180**