

2007 – REVISION
GEODETTIC CONTROL
FOR



MANSFIELD

T E X A S

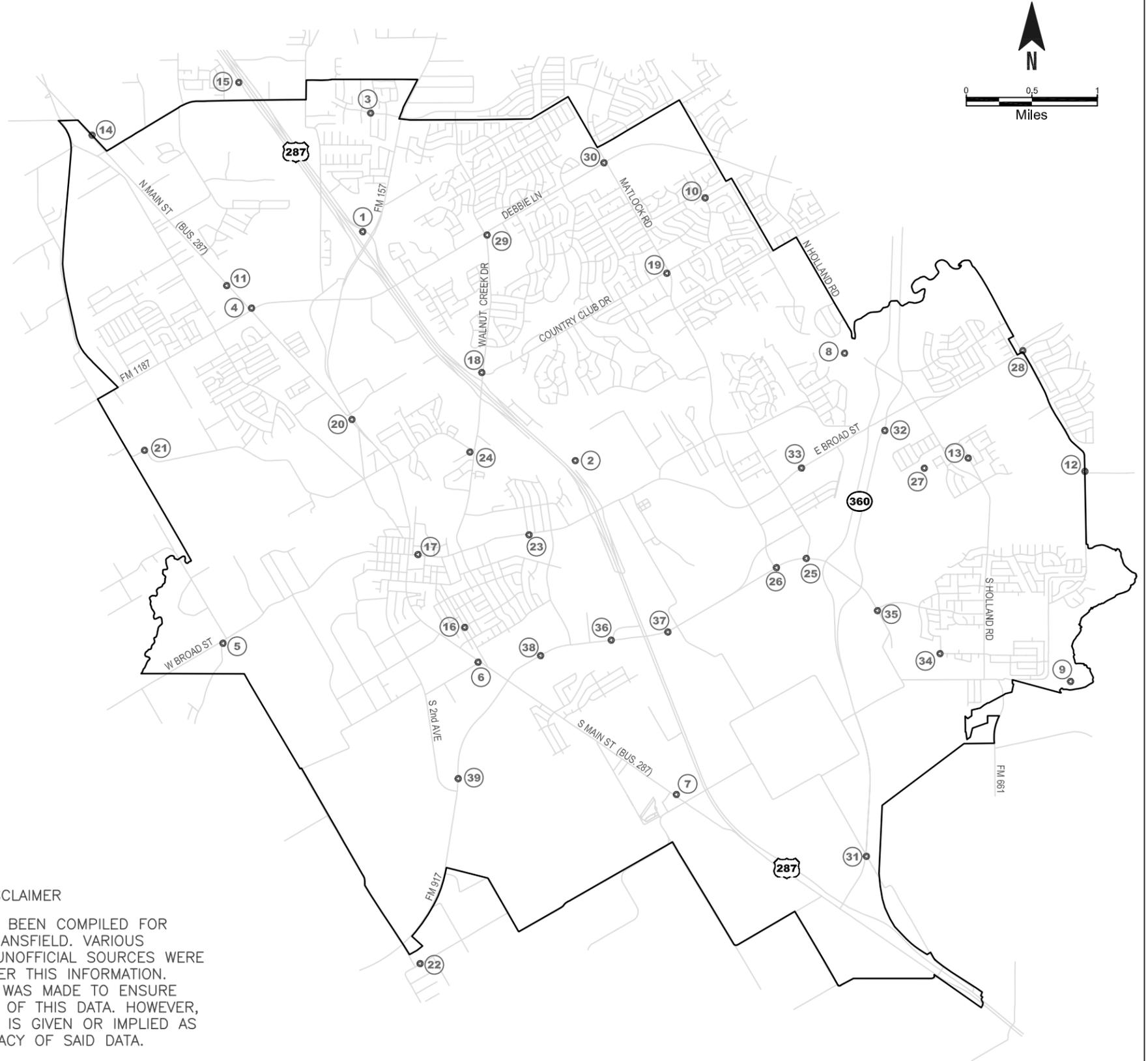
HORIZONTAL & VERTICAL
CONTROL MANUAL



MANSFIELD

T E X A S

NUM.	NAME	LOCATION
1.	TNP No. 1	FM 157 AT US 287
2.	TNP No. 3	JAMES McNIGHT PARK NORTH OF E. BROAD ST.
3.	TNP "B"	TURNER WARNELL RD. AT ESSEX DR.
4.	TNP "C"	FM 1187 AT N. MAIN ST.
5.	TNP "D"	W. BROAD ST. AT LILLIAN RD.
6.	TNP "E"	S. MAIN ST. AT SENTRY DR.
7.	TNP "F"	S. MAIN ST. AT LONE STAR RD.
8.	TNP "I"	PHILLIP THOMPSON SOCCER COMPLEX
9.	TNP "K"	BRITTON PARK ON JOE POOL LAKE
10.	TNP "L"	LAURA ELIZABETH CT. AT LOGAN DR.
11.	MANSFIELD USGS	N. MAIN ST. - NORTH OF FM 1187
12.	GP No. 28	DAY MIAR RD. AT SEETON RD.
13.	GP No. 30	HOLLAND RD. - SOUTH OF E. BROAD ST.
14.	AR 29	BUSINESS 287 - NORTH OF TURNER WARNELL RD.
15.	AR 62	US 287 NORTH OF TURNER WARNELL RD.
16.	MON-BC1	PRICE RD. NORTH OF SHERMAN DR.
17.	MON-BC2	E. BROAD ST. - EAST OF MAIN ST.
18.	MON-BC4	WALNUT CREEK DR. AT COUNTRY CLUB DR.
19.	MON-BC5	COUNTRY CLUB DR. AT MATLOCK RD.
20.	MON-BC6	FM 157 AT N. MAIN ST.
21.	MON-BC7	NEWT PATTERSON RD. SOUTH OF FM 1187
22.	MON-BC9	CORDES DR. AT JESSICA DR.
23.	MM 1-07	BROAD STREET AT CITY HALL
24.	MM 2-07	PLEASANT RIDGE DR. AND PLEASANT RIDGE CT.
25.	MM 3-07	HERITAGE PKWY AT S. MILLER RD.
26.	MM 4-07	HERITAGE PKWY. AT S. MATLOCK RD.
27.	MM 5-07	MANSFIELD SPORTS COMPLEX
28.	MM 6-07	ENGLAND PKWY. AT DAY MIAR
29.	MM 7-07	WALNUT CREEK DR. AT DEBBIE LN.
30.	MM 8-07	DEBBIE LN. AT MATLOCK RD.
31.	MM 9-07	DAVIS RD AT SH 360
32.	MM 10-07	SH 360 AT E. BROAD ST.
33.	MM 11-07	E. BROAD ST. IN FRONT OF HIGH SCHOOL
34.	MM 12-07	EAGLE DR. AND HOGAN ALLEY DR.
35.	MM 13-07	MILLER RD AT NATIONAL PKWY.
36.	MM 14-07	HERITAGE PKWY. AT COMMERCE DR.
37.	MM 15-07	HERITAGE PKWY. AT US 287 ENTRANCE RD.
38.	MM 16-07	HERITAGE PKWY. 1300' WEST OF WISTERIA ST.
39.	MM 17-07	FM 917 AT SECOND AVE.



DISCLAIMER

THIS DATA HAS BEEN COMPILED FOR THE CITY OF MANSFIELD. VARIOUS OFFICIAL AND UNOFFICIAL SOURCES WERE USED TO GATHER THIS INFORMATION. EVERY EFFORT WAS MADE TO ENSURE THE ACCURACY OF THIS DATA. HOWEVER, NO GUARANTEE IS GIVEN OR IMPLIED AS TO THE ACCURACY OF SAID DATA.

GEODETIC CONTROL DATA SHEET

STATION NAME:	TNP-MANSFIELD No. 1	DATE:	JUNE 2007
MONUMENT TYPE:	BERNTSEN SECURITY MONUMENT		
CITY:	MANSFIELD	COUNTY:	TARRANT
		STATE:	TEXAS
SURVEYOR/ENGINEER:	BRITAIN & CRAWFORD LAND SURVEYING		
PROJECT NAME:	MANSFIELD GPS CONTROL DATA (2007)		

TEXAS STATE PLANE NAD 83 GRID DATA (U.S. FEET)

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6903642.51158	2385016.72930
GEOID03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
650.48'		00°44'15.6625"	0.999903583731

GEODETIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°35'57.386217"	NORTH
LONGITUDE	97°08'50.748586"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "

GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 302°59'11" GRID BEARING: N57°00'49"W
GRID AZIMUTH AND DISTANCE TO REFERENCE MARK:	AZIMUTH: 314°08'13" DISTANCE: 512.07

STATION DESCRIPTION:

BERNTSEN TOP SECURITY MONUMENT WITH ACCESS COVER.

STATION LOCATION:

43'+/- WEST OF THE NORTH BOUND FRONTAGE ROAD OF U.S. HIGHWAY No. 287, AND 303'+/- NORTH OF F.M. HIGHWAY No. 157. FORT WORTH MAPSCO, PAGE 124, SECTOR A.

AZIMUTH MARK DESCRIPTION:

BOTTOM OF THE MOST WESTERLY ANTENNA OF THE RADIO TOWER. SEE WORKING SKETCH ON THE PAGE TO THE RIGHT.

SEE EXHIBIT "A"
RADIO TOWER
AZIMUTH MARK



NO. 287

GRID AZIMUTH 302°59'11"

ENTRANCE RAMP

US HIGHWAY



NOT TO SCALE

GRID AZIMUTH 314°08'13"

GRID DISTANCE 512.07'

WORD OF LIFE
FAMILY CHURCH

REFERENCE MARK
"X" CUT IN TOP OF CURB AT
THE SOUTHWEST CORNER OF
THE WORD OF LIFE FAMILY
CHURCH'S PARKING LOT.

GPS MONUMENT
TNP MANSFIELD No. 1

FRONTAGE ROAD

43'

303' +/-

EXHIBIT "A"

AZIMUTH
MARK



AZIMUTH MARK
BOTTOM OF THE MOST WESTERLY
ANTENNA OF THE RADIO TOWER.

HIGHWAY NO. 157

GEODETTIC CONTROL DATA SHEET

STATION NAME: TNP-MANSFIELD No. 3	DATE: JUNE 2007
MONUMENT TYPE: BERNTSEN SECURITY MONUMENT	
CITY: MANSFIELD	COUNTY: TARRANT
STATE: TEXAS	
SURVEYOR/ENGINEER: BRITTAIn & CRAWFORD LAND SURVEYING	
PROJECT NAME: MANSFIELD GPS CONTROL DATA (2007)	

TEXAS STATE PLANE NAD 83 GRID DATA (U.S. FEET)

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6894431.64611	2393582.02536
GEIOD03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
576.87'		00°45'09.496234	0.999907187269

GEODETTIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°34'25.145218"	NORTH
LONGITUDE	97°07'12.042556"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "

GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 19°53'38"	GRID BEARING: N19°53'38"E
GRID DISTANCE TO REFERENCE MARK:	DISTANCE: 504.07 FEET	

STATION DESCRIPTION:

BERNTSEN TOP SECURITY MONUMENT WITH ACCESS COVER.

STATION LOCATION:

LOCATED NEAR THE ENTRANCE TO JAMES McKNIGHT PARK ON THE EAST SIDE OF U.S. HIGHWAY No. 287, NORTH OF BROAD STREET, 12' NORTHWEST OF THE SOUTHWEST CORNER OF THE PARKING LOT OF THE PARK AND 95' NORTHEAST OF THE EAST END OF THE WOOD SIGN AT THE PARK ENTRANCE. FORT WORTH MAPSCO PAGE 124, SECTOR R.

AZIMUTH MARK DESCRIPTION:

"X" CUT IN CONCRETE SIDEWALK 2' WEST OF PLAQUE AT THE ENTRANCE TO THE BASEBALL FIELDS, EAST OF THE PLAYGROUND AREA.

NOTE:
NO TOWERS OR WATER TANKS ARE VISIBLE FROM
THIS MONUMENT.
THE REFERENCE MARK IS THE AZIMUTH MARK.



NOT TO SCALE

AZIMUTH MARK
"X" CUT IN CONCRETE
SIDEWALK 2' WEST OF
PLAQUE AT THE ENTRANCE TO
THE BASEBALL FIELDS, EAST
OF THE PLAYGROUND AREA.

US HIGHWAY NO. 287

FRONTAGE ROAD

CONCRETE PARKING LOT

JAMES McKNIGHT
PARK

GRID AZIMUTH 19°53'38" GRID DISTANCE 504.07'

CONCRETE PARKING LOT

BASEBALL FIELD

BASEBALL FIELD

PLAQUE

GPS MONUMENT
TNP MANSFIELD No. 3

WOODEN SIGN
AT PARK ENTRANCE

GEODETTIC CONTROL DATA SHEET

STATION NAME: TNP-MANSFIELD "B"	DATE: JUNE 2007
MONUMENT TYPE: BERNTSEN SECURITY MONUMENT	
CITY: MANSFIELD	COUNTY: TARRANT STATE: TEXAS
SURVEYOR/ENGINEER: BRITTAIN & CRAWFORD LAND SURVEYING	
PROJECT NAME: MANSFIELD GPS CONTROL DATA (2007)	

TEXAS STATE PLANE NAD 83 GRID DATA (U.S. FEET)

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6908406.62345	2385334.14709
GEOID03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
663.85'		00°44'18.077530"	0.999901820097

GEODETTIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°36'44.485251"	NORTH
LONGITUDE	97°08'46.320574"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "

GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 95°24'12"	GRID BEARING: S84°35'48"E
GRID AZIMUTH AND DISTANCE TO REFERENCE MARK:	AZIMUTH: 95°24'12"	DISTANCE: 671.72 FEET

STATION DESCRIPTION:

BERNTSEN TOP SECURITY MONUMENT WITH ACCESS COVER.

STATION LOCATION:

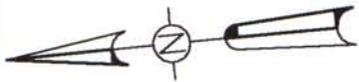
LOCATED 1' WEST OF THE WEST MEDIAN NOSE AT THE INTERSECTION OF ESSEX DRIVE AND TURNER-WARNELL ROAD. FORT WORTH MAPSCO, PAGE 110, SECTOR S.

AZIMUTH MARK DESCRIPTION:

"X" CUT IN THE TOP OF THE CURB ON THE EAST MEDIAN NOSE AT THE INTERSECTION OF YORK DRIVE AND TURNER-WARNELL ROAD. SEE WORKING SKETCH ON THE PAGE TO THE RIGHT.

AZIMUTH MARK
"X" CUT IN THE TOP OF CURB ON
THE NOSE OF THE EAST MEDIAN AT
THE INTERSECTION OF YORK DRIVE
AND TURNER - WARNELL ROAD.

YORK DRIVE



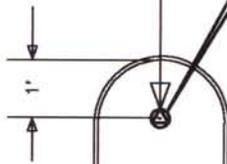
NOT TO SCALE

GRID AZIMUTH $95^{\circ}24'12''$
GRID DISTANCE 671.72'

TURNER - WARNELL ROAD

GPS MONUMENT
TNP MANSFIELD "B"

ESSEX DRIVE



GEODETIC CONTROL DATA SHEET

STATION NAME: TNP-MANSFIELD "C"		DATE: JUNE 2007
MONUMENT TYPE: BERNTSEN SECURITY MONUMENT		
CITY: MANSFIELD	COUNTY: TARRANT	STATE: TEXAS
SURVEYOR/ENGINEER: BRITAIN & CRAWFORD LAND SURVEYING		
PROJECT NAME: MANSFIELD GPS CONTROL DATA (2007)		

TEXAS STATE PLANE NAD 83 GRID DATA (U.S. FEET)

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6900563.97739	2380536.12056
GEOID03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
679.62'		00°43'46.847819"	0.999904729881

GEODETIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°35'27.492726"	NORTH
LONGITUDE	97°09'43.581356"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "

GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 312°02'52"	GRID BEARING: N47°57'08"W
GRID AZIMUTH AND DISTANCE TO REFERENCE MARK:	AZIMUTH: 312°02'52"	DISTANCE: 1350.61 FEET

STATION DESCRIPTION:

BERNTSEN TOP SECURITY MONUMENT WITH ACCESS COVER.

STATION LOCATION:

LOCATED 2' NORTH OF THE NORTH CURBLINE OF F.M. 1187, AND
3' EAST OF A STORM DRAIN INLET, POINT ALSO LIES EAST OF THE
INTERSECTION OF F.M. 1187 AND MAIN STREET (BUSINESS 287).
FORT WORTH MAPSCO, PAGE 123, SECTOR G.

AZIMUTH MARK DESCRIPTION:

**MANSFIELD 1947, U.S.G.S. TRIANGULATION STATION, 3" BRASS
DISK IN 1' SQUARE CONCRETE.
SEE WORKING SKETCH ON THE PAGE TO THE RIGHT.**

OVERHEAD ELECTRIC

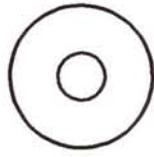
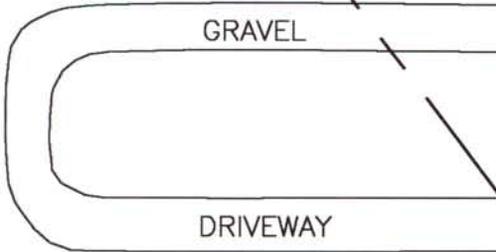
AZIMUTH MARK
MANSFIELD 1947, USC&GS
TRIANGULATION STATION
3" BRASS DISK IN 1'
SQUARE CONCRETE.



OVERHEAD ELECTRIC

POWER
POLE

WHITE ONE STORY
BRICK HOUSE



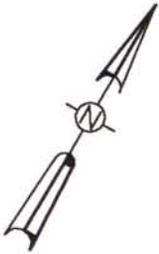
WATER TOWER

MAIN STREET
(BUSINESS 287)

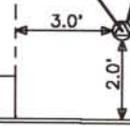
GPS MONUMENT
TNP MANSFIELD "C"

GRID AZIMUTH 312°02'52"

GRID DISTANCE 1360.81'



NOT TO SCALE



STORM DRAIN
INLET

F.M. 1187

GEODETIC CONTROL DATA SHEET

STATION NAME: TNP-MANSFIELD "D"		DATE: JUNE 2007
MONUMENT TYPE: BERNTSEN SECURITY MONUMENT		
CITY: MANSFIELD	COUNTY: TARRANT	STATE: TEXAS
SURVEYOR/ENGINEER: BRITAIN & CRAWFORD LAND SURVEYING		
PROJECT NAME: MANSFIELD GPS CONTROL DATA (2007)		

TEXAS STATE PLANE NAD 83 GRID DATA (U.S. FEET)

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6887090.66567	2379385.17872
GEOID03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
646.14'		00°43'38.420679"	0.999910088411

GEODETIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°33'14.324935"	NORTH
LONGITUDE	97°09'59.016168"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "

GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 290°25'35"	GRID BEARING: N69°34'25"W
GRID AZIMUTH AND DISTANCE TO REFERENCE MARK:	AZIMUTH: 184°17'10"	DISTANCE: 709.24 FEET

STATION DESCRIPTION:

BERNTSEN TOP SECURITY MONUMENT WITH ACCESS COVER.

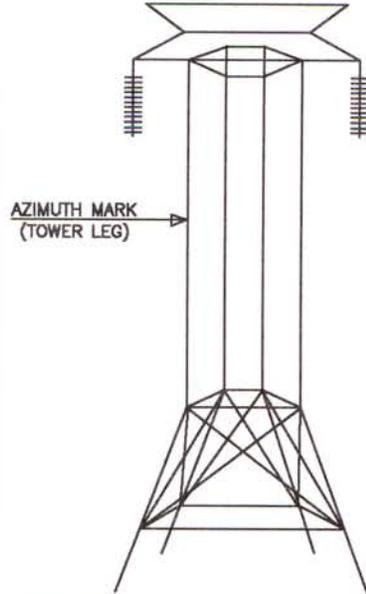
STATION LOCATION:

LOCATED 20' EAST OF THE EAST EDGE OF THE PAVEMENT OF LILLIAN ROAD, AND 60' SOUTH OF THE STOP SIGN AT THE INTERSECTION OF BROAD STREET AND LILLIAN ROAD.
FORT WORTH MAPSCO, PAGE 123, SECTOR X.

AZIMUTH MARK DESCRIPTION:

THE MOST SOUTHWESTERLY VERTICAL UPPER LEG OF THE MOST WESTERLY STEEL ELECTRIC TOWER SEEN FROM GPS MONUMENT TNP MANSFIELD "D". SEE WORKING SKETCH ON THE PAGE TO THE RIGHT.

EXHIBIT "A"



AZIMUTH MARK
THE MOST SOUTHWESTERLY VERTICAL UPPER LEG OF
THE MOST WESTERLY STEEL ELECTRIC TOWER SEEN
FROM GPS MONUMENT TNP MANSFIELD "D".

SEE EXHIBIT "A"
ELECTRIC TOWER
AZIMUTH MARK



GRID AZIMUTH $290^{\circ}25'42''$

HOUSE
808 LILIAN RD.

14" RCP

GRID AZIMUTH $187^{\circ}12'16''$
GRID DISTANCE 708.24'

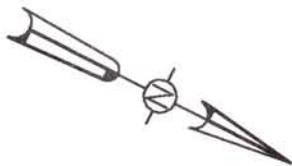
LILIAN ROAD

BROAD STREET WEST

REFERENCE MARK
"X" CUT IN THE NORTH
HEADWALL AT THE NORTH DRIVE
ENTRANCE INTO 808 LILLIAN RD.
ABOVE THE 14" RCP UNDER
THE DRIVEWAY.

GPS MONUMENT
TNP MANSFIELD "D"

STOP SIGN



NOT TO SCALE

RETTA MANSFIELD ROAD

GEODETTIC CONTROL DATA SHEET

STATION NAME: TNP MANSFIELD "E"	DATE: JUNE 2007
MONUMENT TYPE: BERNTSEN SECURITY MONUMENT	
CITY: MANSFIELD	COUNTY: TARRANT STATE: TEXAS
SURVEYOR/ENGINEER: BRITTAIN & CRAWFORD LAND SURVEYING	
PROJECT NAME: MANSFIELD GPS CONTROL DATA (2007)	

TEXAS STATE PLANE NAD 83 GRID DATA (U.S. FEET)

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6886325.89923	2389665.88339
GEOID03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
643.83'		00°44'43.865128	0.999910460177

GEODETTIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°33'05.447995"	NORTH
LONGITUDE	97°07'59.038098"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "

GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 120°05'23"	GRID BEARING: S59°54'37"E
GRID AZIMUTH AND DISTANCE TO REFERENCE MARK:	AZIMUTH: 120°05'23"	DISTANCE: 1454.59 FEET

STATION DESCRIPTION:

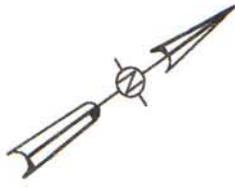
BERNTSEN TOP SECURITY MONUMENT WITH ACCESS COVER.

STATION LOCATION:

LOCATED ON THE NORTH SIDE OF SENTRY DRIVE AT THE INTERSECTION OF MAIN STREET (BUSINESS 287).
FORT WORTH MAPSCO, PAGE 124, SECTOR X.

AZIMUTH MARK DESCRIPTION:

"X" CUT ON THE TOP OF CURB ON THE SOUTHEAST CURB LINE OF HERITAGE PARKWAY AT THE CURB RETURN AT THE EAST CORNER OF THE INTERSECTION.



NOT TO SCALE

(BUSINESS 287)

PRICE STREET

SENTRY DRIVE

GPS MONUMENT
TNP MANSFIELD "E"

FENCE CORNER

20'

23'

F.H.

GRID AZIMUTH 120°05'23"
GRID DISTANCE 1454.59'

AZIMUTH/REFERENCE MARK
"X" CUT ON TOP OF CURB ON
THE SOUTHEAST CURB RETURN AT
THE INTERSECTION OF HERITAGE
PARKWAY AND MAIN STREET.

HERITAGE PARKWAY

MAIN STREET

HERITAGE PARKWAY

GEODETIC CONTROL DATA SHEET

STATION NAME: TNP MANSFIELD "F"		DATE: JUNE 2007
MONUMENT TYPE: BERNTSEN SECURITY MONUMENT		
CITY: MANSFIELD	COUNTY: TARRANT	STATE: TEXAS
SURVEYOR/ENGINEER: BRITAIN & CRAWFORD LAND SURVEYING		
PROJECT NAME: MANSFIELD GPS CONTROL DATA (2007)		

TEXAS STATE PLANE NAD 83 GRID DATA (U.S. FEET)

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6881005.97982	2397653.80249
GEOID03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
655.43'		00°45'34.312583	0.999912747787

GEODETIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°32'11.770927"	NORTH
LONGITUDE	97°06'26.540900"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "

GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 167°06'40"	GRID BEARING: S12°53'20"E
GRID AZIMUTH AND DISTANCE TO REFERENCE MARK:	AZIMUTH: 84°55'22"	DISTANCE: 1070.26 FEET

STATION DESCRIPTION:

BERNTSEN TOP SECURITY MONUMENT WITH ACCESS COVER.

STATION LOCATION:

LOCATED 1.8 MILES IN A SOUTHERLY DIRECTION FROM TNP MANSFIELD "E" 22' EAST OF THE NORTHEAST EDGE OF THE PAVEMENT OF MAIN STREET (BUSINESS 287), AND 1000' +/- NORTHWESTERLY OF THE CENTERLINE OF LONE STAR ROAD. FORT WORTH MAPSCO, PAGE 124, SECTOR X.

AZIMUTH MARK DESCRIPTION:

TOP ANTENNA ON THE WEST SIDE OF THE RADIO TOWER.
SEE WORKING SKETCH FOR THIS MONUMENT.

U.S. HIGHWAY

NO. 287

(BUSINESS 287)

SEE EXHIBIT "A"
RADIO TOWER
AZIMUTH MARK

REFERENCE MARK
"X" CUT ON THE TOP OF
THE SOUTHEAST CORNER OF
BRIDGE ON TOP OF THE WALL
ON THE EAST SIDE OF LONE
STAR ROAD.

LONE STAR ROAD

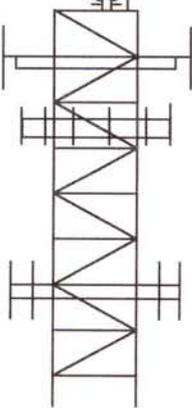
LONE STAR ROAD

167°06'40"

GRID AZIMUTH

EXHIBIT "A"

AZIMUTH MARK



AZIMUTH MARK
TOP ANTENNA ON THE WEST
SIDE OF THE RADIO TOWER.

GRID AZIMUTH 84°55'22"
GRID DISTANCE 1070.26'

1000' +/-

MAIN STREET

GPS MONUMENT
TNP MANSFIELD "F"

22'



NOT TO SCALE

GEODETIC CONTROL DATA SHEET

STATION NAME: TNP MANSFIELD "I"	DATE: JUNE 2007
MONUMENT TYPE: BERNTSEN SECURITY MONUMENT	
CITY: MANSFIELD	COUNTY: TARRANT STATE: TEXAS
SURVEYOR/ENGINEER: BRITAIN & CRAWFORD LAND SURVEYING	
PROJECT NAME: MANSFIELD GPS CONTROL DATA (2007)	

TEXAS STATE PLANE NAD 83 GRID DATA (U.S. FEET)

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6898751.31401	2404433.46540
GEOID03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
541.13'		00°46'19.026589"	0.999905548832

GEODETIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°35'06.458242"	NORTH
LONGITUDE	97°05'04.556184"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "

GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 17°44'27"	GRID BEARING: N17°44'27"E
GRID AZIMUTH AND DISTANCE TO REFERENCE MARK:	AZIMUTH: 17°44'27"	DISTANCE: 795.12' FEET

STATION DESCRIPTION:

BERNTSEN TOP SECURITY MONUMENT WITH ACCESS COVER.

STATION LOCATION:

LOCATED 3' NORTH OF THE PARKING LOT OFF HOLLAND ROAD AT THE PHILLIP THOMPSON SOCCER COMPLEX, AND 270' +/- EAST OF A FENCELINE WEST OF THE PARKING LOT.
FORT WORTH MAPSCO, PAGE 125, SECTOR G.

AZIMUTH MARK DESCRIPTION:

"X" CUT AT THE NORTHEAST CORNER OF THE CONCRETE PAD AROUND THE SANITARY SEWER MANHOLE AT THE ENTRANCE TO PHILLIP THOMPSON SOCCER COMPLEX. SEE WORKING SKETCH FOR THIS MONUMENT.

☐ TRA LIFT STATION



REFERENCE MARK
"X" CUT AT THE NORTHEAST CORNER
OF THE CONCRETE PAD FOR THE
SANITARY SEWER MANHOLE AT THE
ENTRANCE TO PHILLIP THOMPSON
SOCCER COMPLEX.

SANITARY SEWER
MANHOLE

PHILLIP THOMPSON
SOCCER COMPLEX

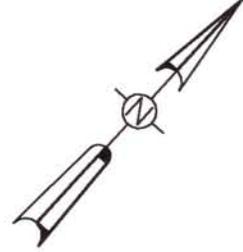
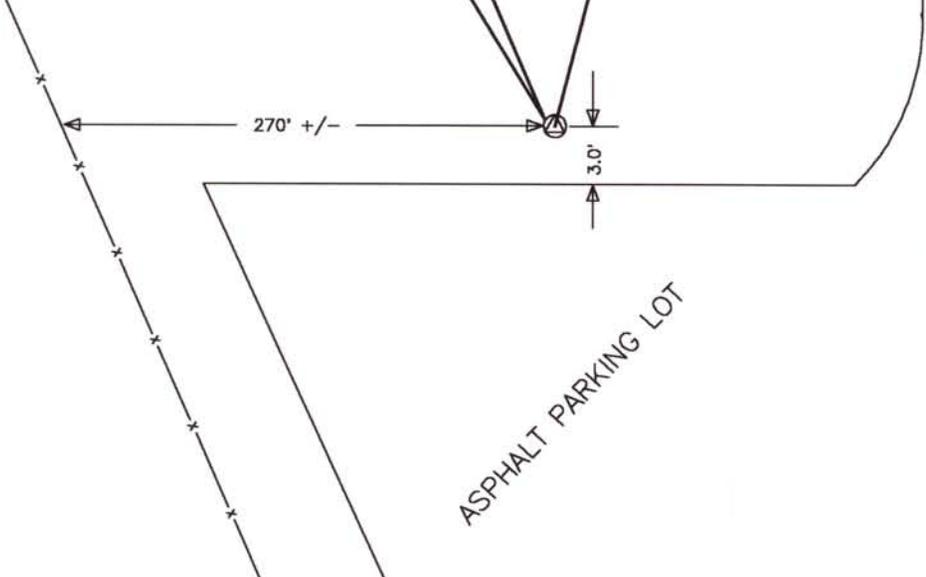
SOCCER FIELDS

BRICK
SIGN

GRID AZIMUTH $17^{\circ}44'27''$
GRID DISTANCE 795.12'

HOLLAND ROAD

GPS MONUMENT
TNP MANSFIELD "I"



NOT TO SCALE

GEODETIC CONTROL DATA SHEET

STATION NAME: TNP-MANSFIELD "K"	DATE: JUNE 2007
MONUMENT TYPE: BERNTSEN SECURITY MONUMENT	
CITY: MANSFIELD	COUNTY: TARRANT
STATE: TEXAS	
SURVEYOR/ENGINEER: BRITAIN & CRAWFORD LAND SURVEYING	
PROJECT NAME: MANSFIELD GPS CONTROL DATA (2007)	

TEXAS STATE PLANE NAD 83 GRID DATA (U.S. FEET)

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6,885,551.37569	2,413,539.91171
GEOID03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
535.19'		00°47'15.915040"	0.999910916105

GEODETIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°32'54.623395"	NORTH
LONGITUDE	97°03'20.249191"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "

GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 92°57'05" GRID BEARING: S87°02'55"E
GRID AZIMUTH AND DISTANCE TO REFERENCE MARK:	AZIMUTH: 96°08'24" DISTANCE: 320.80 FEET

STATION DESCRIPTION:

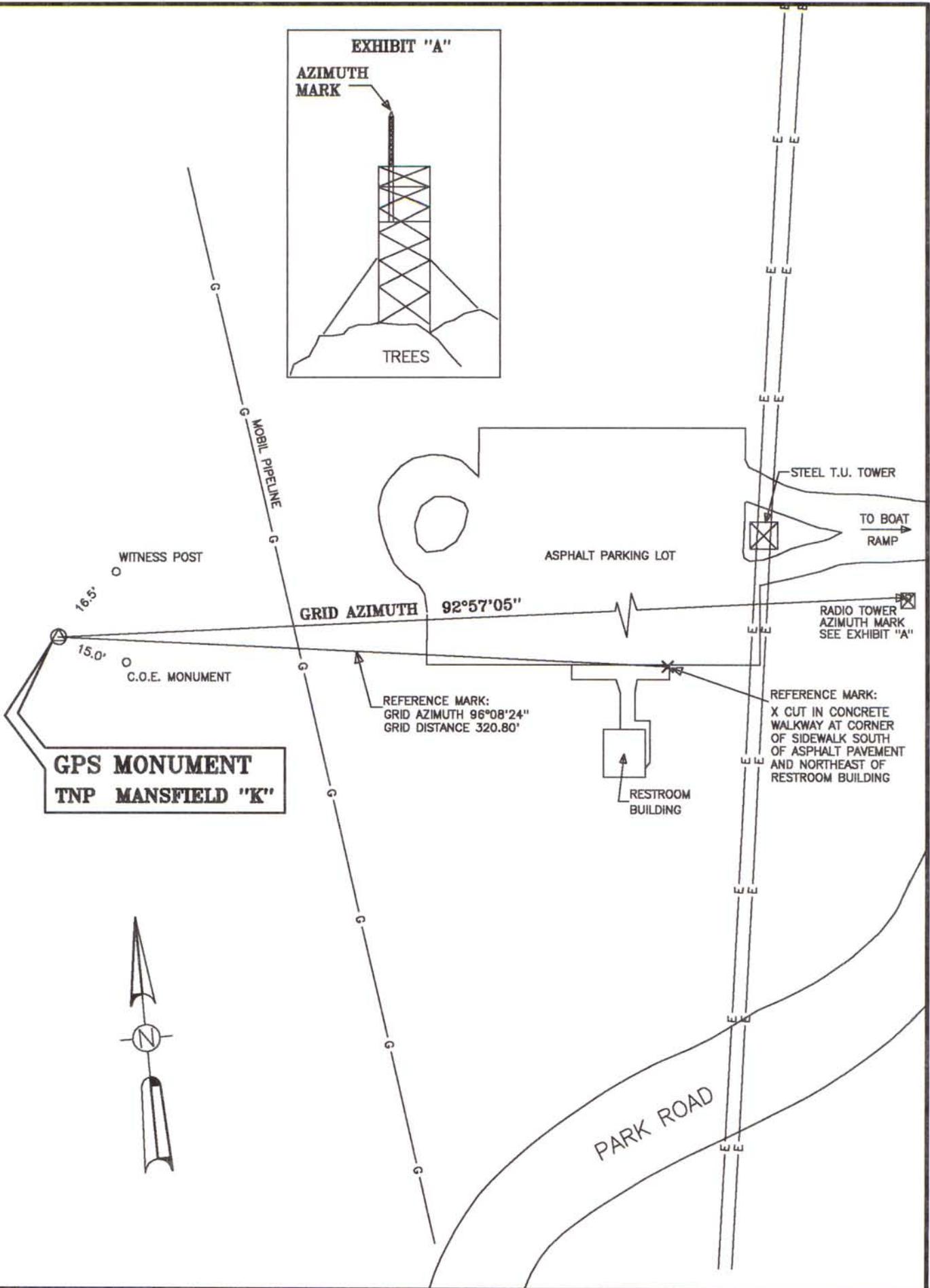
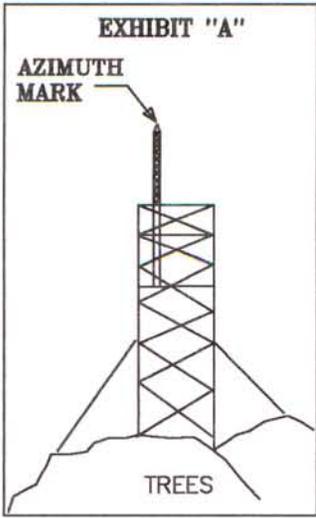
BERNTSEN TOP SECURITY MONUMENT WITH ACCESS COVER

STATION LOCATION:

GPS STATION IS LOCATED 300' +/- WESTERLY OF THE RESTROOM BUILDING ON THE SOUTH SIDE OF THE MOST NORTHERLY PARKING LOT AT BRITTON PARK ON JOE POOL LAKE. SAID STATION IS WEST OF A MOBIL PIPELINE, AND 16.5' SOUTHWEST OF A WITNESS POST.
FORT WORTH MAPSCO PAGE 126 SECTOR X & Y

AZIMUTH MARK DESCRIPTION:

TOP OF THE CENTER OF THE TALLEST PART OF THE TOP ANTENNA ON RADIO TOWER LOCATED EAST OF GPS STATION. SEE WORKING SKETCH ON THE PAGE TO THE RIGHT.



GEODETTIC CONTROL DATA SHEET

STATION NAME: TNP-MANSFIELD "L"	DATE: JUNE 2007
MONUMENT TYPE: BERNTSEN SECURITY MONUMENT	
CITY: MANSFIELD	COUNTY: TARRANT STATE: TEXAS
SURVEYOR/ENGINEER: BRITTAIN & CRAWFORD LAND SURVEYING	
PROJECT NAME: MANSFIELD GPS CONTROL DATA (2007)	

TEXAS STATE PLANE NAD 83 GRID DATA (U.S. FEET)

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6,904,995.81246	2,398,811.02711
GEOID03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
610.90'		00°45'43.717926"	0.999903144426

GEODETTIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°36'08.990149"	NORTH
LONGITUDE	97°06'09.295870"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "

GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 159°11'21" GRID BEARING: S20°48'39"E
GRID AZIMUTH AND DISTANCE TO REFERENCE MARK:	AZIMUTH: 162°26'38" DISTANCE: 569.04 FEET

STATION DESCRIPTION:

BERNTSEN TOP SECURITY MONUMENT WITH ACCESS COVER

STATION LOCATION:

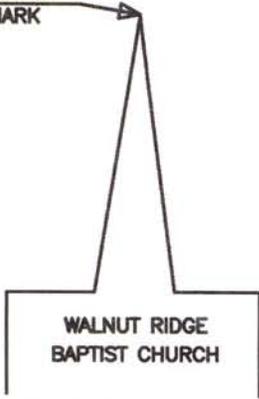
GPS STATION IS LOCATED AT THE SOUTHEAST CORNER OF THE INTERSECTION OF LAURA ELIZABETH COURT AND LOGAN DRIVE IN MANSFIELD, TEXAS. THE MONUMENT IS LOCATED 0.5' SOUTH OF THE SOUTH CURB LINE OF LAURA ELIZABETH COURT, AND 1.5' WEST FROM THE WEST END OF A 10' CURB INLET ON THE SOUTH CURB LINE OF LAURA ELIZABETH COURT. FORT WORTH MAPSCO PAGE 111 - SECTOR W

AZIMUTH MARK DESCRIPTION:

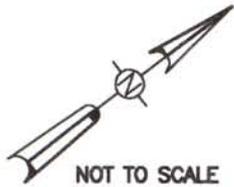
TOP OF CHURCH STEEPLE ON THE WALNUT RIDGE BAPTIST CHURCH SOUTH OF THE GPS STATION. SEE WORKING SKETCH ON THE PAGE TO THE RIGHT.

EXHIBIT "A"

AZIMUTH
MARK



AZIMUTH MARK:
TOP OF CHURCH STEEPLE



REFERENCE MARK:
PUNCH DOT IN CITY OF
MANSFIELD ALUMINUM DISK
IN TOP OF CURB INLET

LAURA ELIZABETH COURT

0.5'

1.5'

CURB INLET

**GPS MONUMENT
TNP MANSFIELD "L"**

LOGAN DRIVE

GRID AZIMUTH 162°28'38"
GRID DISTANCE 569.04'

GRID AZIMUTH 159°11'21"

DOBREE COURT

CURB INLET

SEE EXHIBIT "A"
CHURCH STEEPLE
AZIMUTH MARK

GEODETIC CONTROL DATA SHEET

STATION NAME:	MANSFIELD 1947 USC&GS TRIANGULATION STATION	DATE:	JUNE 2007		
MONUMENT TYPE:	3" BRASS DISK IN 1' SQUARE CONCRETE MONUMENT				
CITY:	MANSFIELD	COUNTY:	TARRANT	STATE:	TEXAS
SURVEYOR/ENGINEER:	BRITAIN & CRAWFORD LAND SURVEYING				
PROJECT NAME:	MANSFIELD GPS CONTROL DATA (2007)				

TEXAS STATE PLANE NAD 83 GRID DATA (U.S. FEET)

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6,901,468.54939	2,379,533.17071
GEOID03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
707.48'		00°43'40.527679"	0.999904379670

GEODETIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°35'36.569461"	NORTH
LONGITUDE	97°09'55.169557"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "

GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 132°02'52"	GRID BEARING: S47°57'08"E
GRID AZIMUTH AND DISTANCE TO REFERENCE MARK:	AZIMUTH: 132°02'52"	DISTANCE: 1350.61 FEET

STATION DESCRIPTION:

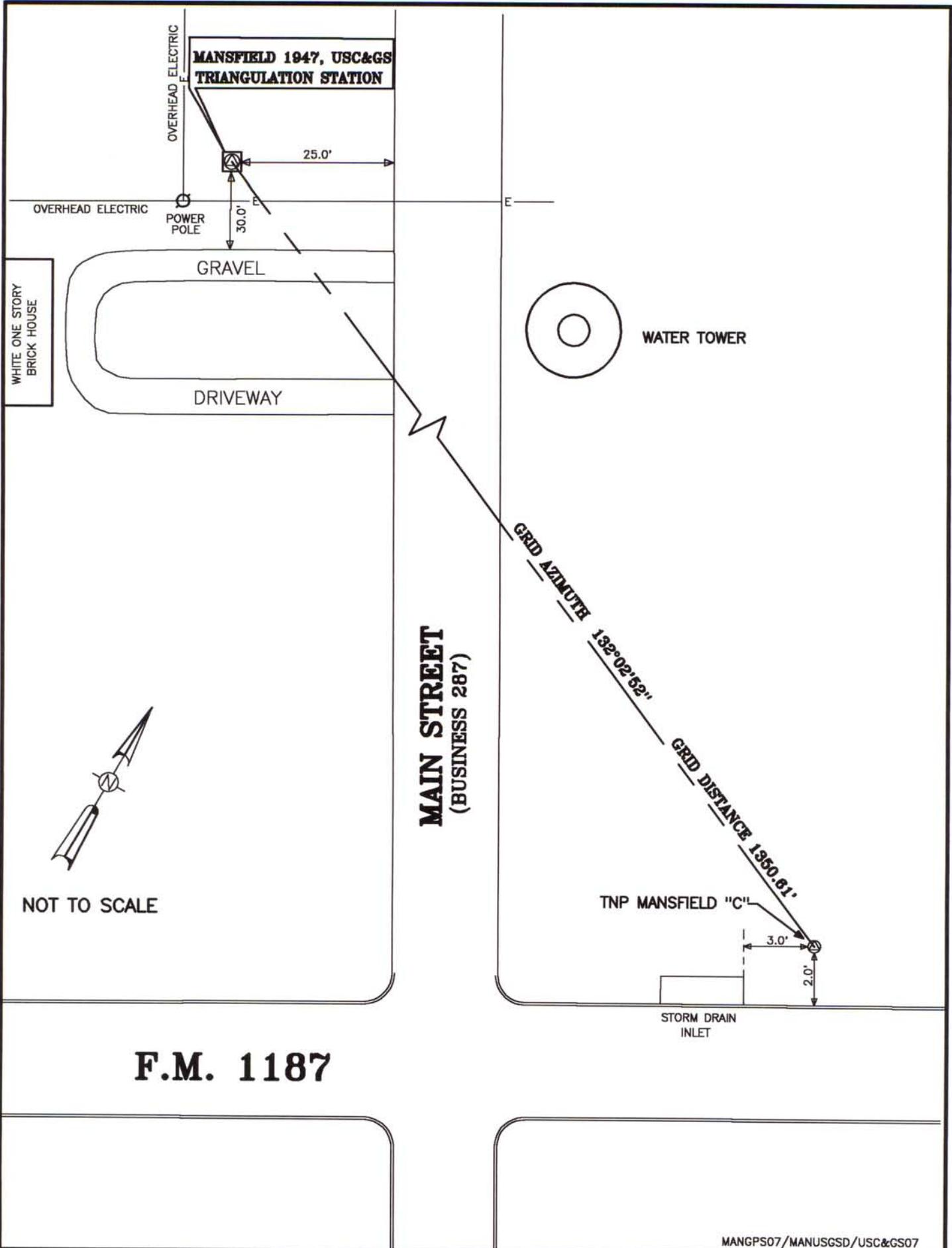
USC&GS TRIANGULATION STATION "MANSFIELD 1947" 3" BRASS DISK IN A ONE FOOT SQUARE CONCRETE MONUMENT.

STATION LOCATION:

MONUMENT IS LOCATED IN MANSFIELD TEXAS ON THE WEST SIDE OF MAIN STREET (BUSINESS 287) AND 1/4 MILE NORTH OF THE INTERSECTION OF MAIN STREET AND F.M. HIGHWAY 1187. MONUMENT IS 30' NORTH OF A GRAVEL DRIVEWAY, AND 25' WEST OF THE WEST PAVEMENT EDGE OF MAIN STREET (BUSINESS 287).
FORT WORTH MAPSCO, PAGE 123, SECTOR G.

AZIMUTH MARK DESCRIPTION:

GPS MONUMENT TNP MANSFIELD "C" BERNTSEN SECURITY MONUMENT WITH ACCESS COVER LOCATED 2' NORTH OF THE NORTH CURB LINE OF F.M. 1187, AND 3' EAST OF A STORM DRAIN CURB INLET AT THE NORTHEAST CORNER OF F.M. 1187 AND MAIN STREET.
SEE WORKING SKETCH ON THE PAGE TO THE RIGHT.



GEODETIC CONTROL DATA SHEET

STATION NAME: G.P.S. 28 "GRAND PRAIRIE MON"	DATE: JUNE 2007
MONUMENT TYPE: BERNTSEN SECURITY MONUMENT	
CITY: MANSFIELD	COUNTY: TARRANT STATE: TEXAS
SURVEYOR/ENGINEER: BRITAIN & CRAWFORD LAND SURVEYING	
PROJECT NAME: MANSFIELD GPS CONTROL DATA (2007)	

TEXAS STATE PLANE NAD 83 GRID DATA (U.S. FEET)

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6,893,998.01626	2,414,117.17997
GEOID03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
554.58'		00°47'20.334217"	0.999907469796

GEODETIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°34'18.120920"	NORTH
LONGITUDE	97°03'12.146474"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "

GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 77°01'45" GRID BEARING: N77°01'45"E
GRID AZIMUTH AND DISTANCE TO REFERENCE MARK:	AZIMUTH: 352°54'47" DISTANCE: 823.57

STATION DESCRIPTION:

BERNTSEN TOP SECURITY MONUMENT WITH ACCESS COVER
STAMPED " G.P. 28"

STATION LOCATION:

GPS STATION IS LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF DAY-MIAR ROAD AND SEETON ROAD ABOUT 1.1 MILES SOUTH OF BROAD STREET. STATION IS 21.0' EAST OF THE CENTERLINE OF DAY-MIAR ROAD, AND 63.3' NORTH OF THE CENTERLINE SEETON ROAD.
FORT WORTH MAPSCO PAGE 126 SECTOR Q

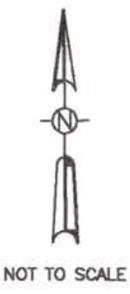
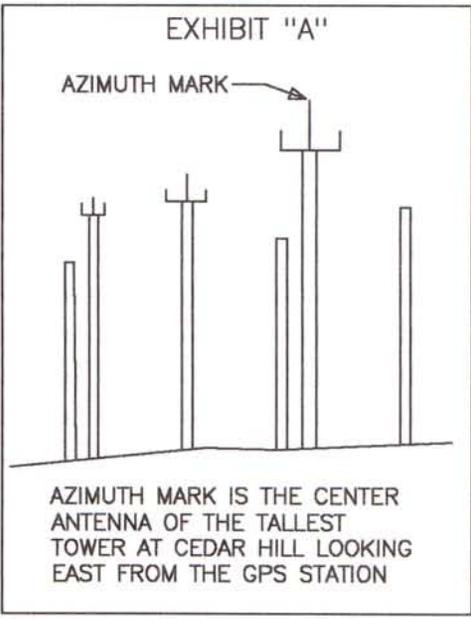
AZIMUTH MARK DESCRIPTION:

CENTER ANTENNA OF THE TALLEST RADIO TOWER AT CEDAR HILL LOCATED TO THE EAST OF GPS STATION. SEE WORKING SKETCH ON THE PAGE TO THE RIGHT.

TO EAST BROAD STREET

REFERENCE MARK
PUNCH IN CENTER OF
WPA MON. # 38

GRID AZIMUTH 352°54'47" GRID DIST. 823.57'



G.P. 28 MONUMENT
FORT WORTH MAPSCO 126 Q

GRID AZIMUTH 77°01'45"

21.0

63.3'

SEETON ROAD

DAY MIAR ROAD

GEODETTIC CONTROL DATA SHEET

STATION NAME: G.P.S. 30 "GRAND PRAIRIE MON"	DATE: JUNE 2007
MONUMENT TYPE: ALUMINUM DISK IN CONCRETE	
CITY: MANSFIELD	COUNTY: TARRANT STATE: TEXAS
SURVEYOR/ENGINEER: BRITAIN & CRAWFORD LAND SURVEYING	
PROJECT NAME: MANSFIELD GPS CONTROL DATA (2007)	

TEXAS STATE PLANE NAD 83 GRID DATA (U.S. FEET)

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6,894,532.80254	2,409,414.06087
GEOID03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
587.88'		00°46'50.407020"	0.999907231249

GEODETTIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°34'24.049893"	NORTH
LONGITUDE	97°04'07.019051"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "

GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 80°24'44" GRID BEARING: N80°24'44"E
GRID AZIMUTH AND DISTANCE TO REFERENCE MARK:	AZIMUTH: N\A DISTANCE: N\A

STATION DESCRIPTION:

ALUMINUM DISK SET IN CONCRETE INSIDE A PVC PIPE STAMPED
" G.P. 30" BETWEEN THE EDGE OF PAVEMENT AND THE ROW FENCE.

STATION LOCATION:

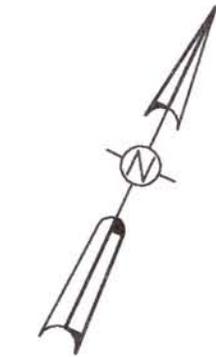
GPS STATION IS LOCATED ON THE WEST SIDE HOLLAND ROAD 0.6 MILES SOUTH THROUGH TWO 90° BENDS IN HOLLAND ROAD FROM THE INTERSECTION OF EAST BROAD STREET. MONUMENT IS LOCATED 15.0' SOUTHWEST OF THE CENTERLINE OF HOLLAND ROAD, AND 149.6' SOUTHWEST OF A POWER POLE LOCATED ON THE EAST SIDE OF HOLLAND ROAD, AND 132.7' NORTHWEST OF A POWER POLE LOCATED ON THE EAST SIDE OF HOLLAND ROAD.

AZIMUTH MARK DESCRIPTION:

CENTER ANTENNA OF THE TALLEST RADIO TOWER AT CEDAR HILL LOCATED TO THE EAST OF GPS STATION. SEE WORKING SKETCH ON THE PAGE TO THE RIGHT.

EAST BROAD STREET

HOLLAND ROAD



NOT TO SCALE

MANSFIELD
SPORTS
COMPLEX



HOLLAND ROAD

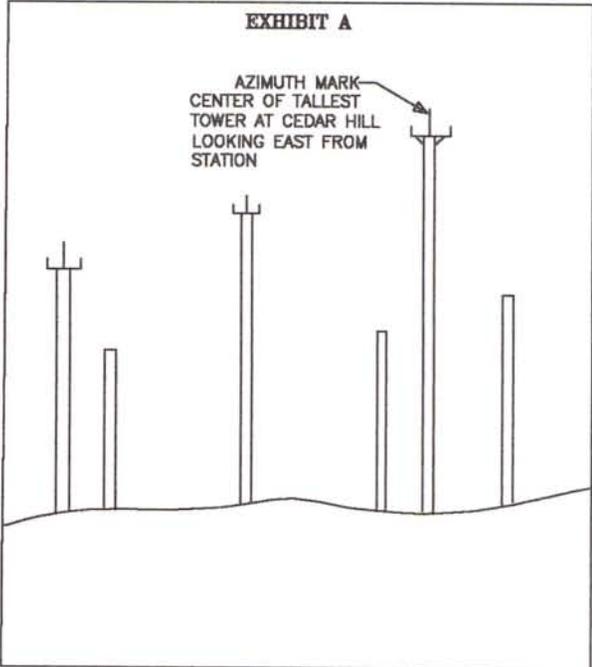
PP

149.8'

15.0'

132.7'

PP

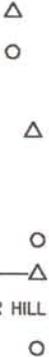


**G.P.S. MONUMENT
GRAND PRAIRIE
NO. 30**

FORT WORTH MAPSCO 126-N

GRID AZIMUTH 80°24'44"

SEE EXHIBIT A
ANTENNA AT CEDAR HILL



GEODETIC CONTROL DATA SHEET

STATION NAME:	AR 29 "ARLINGTON MON"	DATE:	JUNE 2007
MONUMENT TYPE:	BERNTSEN TOP SECURITY MON.		
CITY:	MANSFIELD	COUNTY:	TARRANT
		STATE:	TEXAS
SURVEYOR/ENGINEER:	BRITAIN & CRAWFORD LAND SURVEYING		
PROJECT NAME:	MANSFIELD GPS CONTROL DATA (2007)		

TEXAS STATE PLANE NAD 83 GRID DATA (U.S. FEET)

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6,907,518.18306	2,374,107.55752
GEOID03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
706.88'		00°43'06.424128"	0.999902092979

GEODETIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°36'37.106666"	NORTH
LONGITUDE	97°10'57.699628"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "

GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 211°49'49" GRID BEARING: S31°49'49"W
GRID AZIMUTH AND DISTANCE TO REFERENCE MARK:	AZIMUTH: N\A DISTANCE: N\A

STATION DESCRIPTION:

BERNTSEN TOP SECURITY MONUMENT WITH ACCESS COVER STAMPED
"AR 29"

STATION LOCATION:

GPS STATION IS LOCATED ON THE NORTHEAST SIDE OF BUSINESS 287
"MANSFIELD HIGHWAY" AT THE ENTRANCE TO CEDAR HILL MEMORIAL
CEMETERY NORTH OF TURNER WARNELL ROAD. MONUMENT IS 23' NORTH
OF THE NORTH EDGE OF THE ENTRANCE DRIVE TO CEMETERY, AND 29.5'
NORTHEAST OF THE EAST EDGE OF PAVEMENT ON MANSFIELD HIGHWAY.

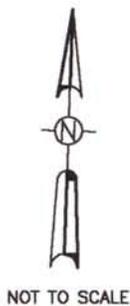
AZIMUTH MARK DESCRIPTION:

SHORT ANTENNA IN THE CENTER OF RADIO TOWER LOCATED
SOUTHWEST OF GPS STATION AND WEST OF MANSFIELD HWY.
SKETCH ON THE PAGE TO THE RIGHT.

**GPS MONUMENT
ARLINGTON AR29**

FORT WORTH MAPSCO 109-S

CEDAR HILL
MEMORIAL CEMETERY



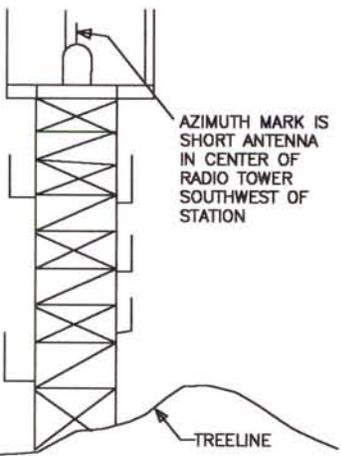
GRID AZIMUTH 211°49'49"

BUSINESS 287 "MANSFIELD HIGHWAY"

ENTRANCE

SHORT ANTENNA ON
CENTER OF RADIO
TOWER
SEE EXHIBIT A

EXHIBIT A



TURNER WARNELL
ROAD

GEODETIC CONTROL DATA SHEET

STATION NAME: AR 62 "ARLINGTON MON"	DATE: JUNE 2007
MONUMENT TYPE: BERNTSEN TOP SECURITY MON.	
CITY: MANSFIELD	COUNTY: TARRANT
STATE: TEXAS	
SURVEYOR/ENGINEER: BRITAIN & CRAWFORD LAND SURVEYING	
PROJECT NAME: MANSFIELD GPS CONTROL DATA (2007)	

TEXAS STATE PLANE NAD 83 GRID DATA (U.S. FEET)

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6,909,638.10671	2,380,021.60012
GEOID03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
683.60'		00°43'44.303946"	0.999901347587

GEODETIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°36'57.343564"	NORTH
LONGITUDE	97°09'48.245638"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "

GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 330°28'32" GRID BEARING: N29°31'28"W
GRID AZIMUTH AND DISTANCE TO REFERENCE MARK:	AZIMUTH: 141°09'51" DISTANCE: 952.21'

STATION DESCRIPTION:

BERNTSEN TOP SECURITY MONUMENT WITH ACCESS COVER STAMPED
"AR 62"

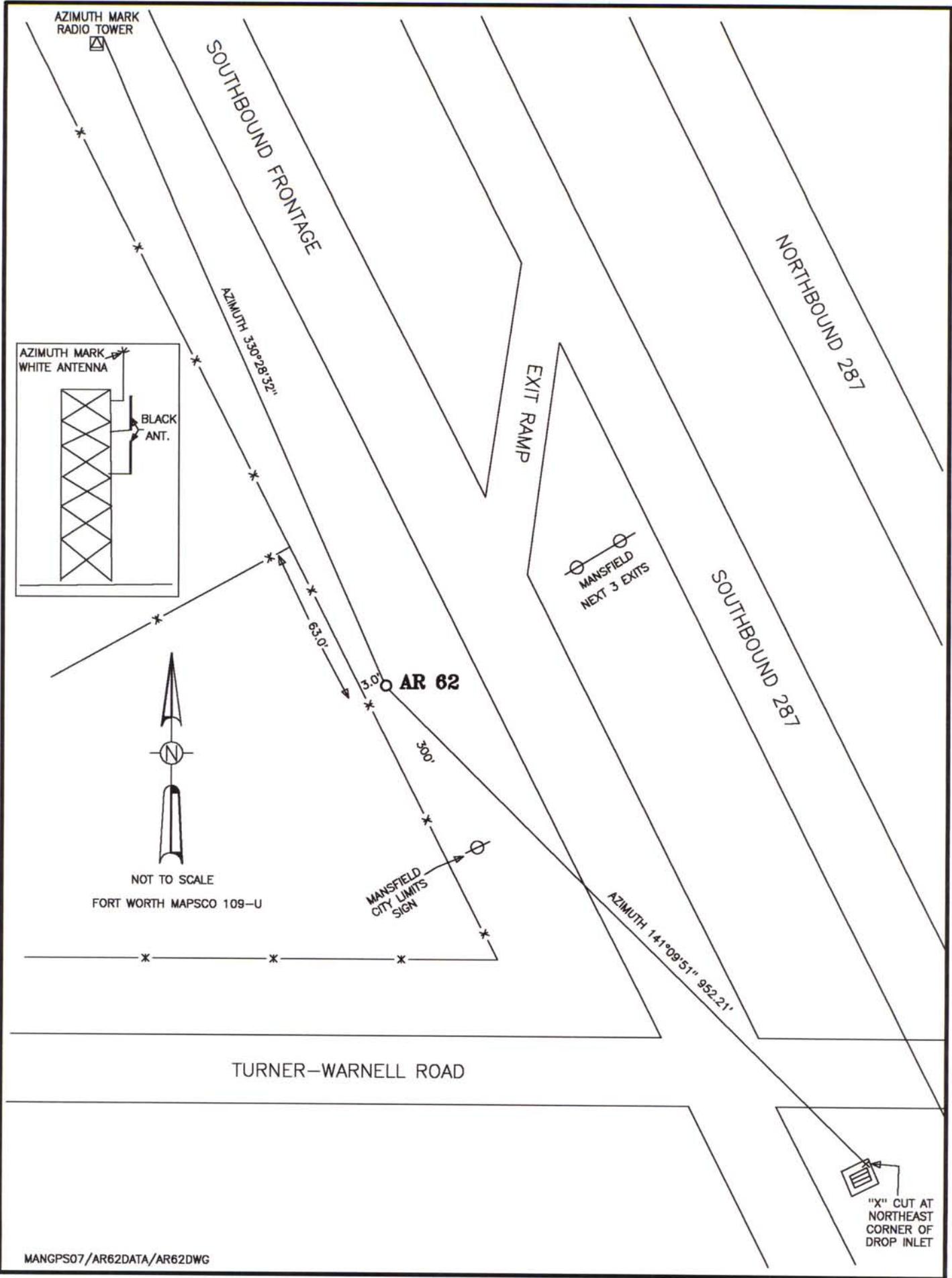
STATION LOCATION:

GPS MONUMENT IS LOCATED ALONG THE WEST SIDE OF US 287 NORTH OF TURNER-WARNELL ROAD. MONUMENT IS 3' EAST OF A FENCE ALONG THE WEST RIGHT-OF-WAY LINE OF US 287 AND 63' SOUTHEAST OF A FENCE CORNER. MONUMENT IS LOCATED 300' NORTH OF A MANSFIELD CITY LIMITS SIGN AND IS LOCATED IN LINE WITH A MANSFIELD NEXT 3 EXITS SIGN BETWEEN THE SOUTHBOUND LANES AND THE FRONTAGE ROAD.

FORT WORTH MAPSCO 109-U

AZIMUTH MARK DESCRIPTION:

TOP OF WHITE ANTENNA AT THE NORTHEAST CORNER A RADIO TOWER LOCATED NORTHWEST OF GPS STATION. SEE SKETCH TO THE RIGHT FOR DETAILS.



GEODETIC CONTROL DATA SHEET

STATION NAME: MON-BC1	DATE: JUNE 2007
MONUMENT TYPE: ALUMINUM DISK IN CONCRETE	
CITY: MANSFIELD	COUNTY: TARRANT STATE: TEXAS
SURVEYOR/ENGINEER: BRITAIN & CRAWFORD LAND SURVEYING	
PROJECT NAME: MANSFIELD GPS CONTROL DATA (2007)	

TEXAS STATE PLANE NAD 83 GRID DATA (U.S. FEET)

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6,887,725.68194	2,389,126.61078
GEOID03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
659.55'		00°44'40.544934"	0.999909877885

GEODETIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°33'19.367815"	NORTH
LONGITUDE	97°08'05.125791"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "

GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 332°33'17" GRID BEARING: N27°26'43"W
GRID AZIMUTH AND DISTANCE TO REFERENCE MARK:	AZIMUTH: 333°41'02" DISTANCE: 743.22'

STATION DESCRIPTION:

ALUMINUM DISK SET IN CONCRETE MONUMENT 6" BELOW GROUND SURFACE.

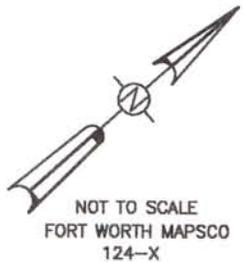
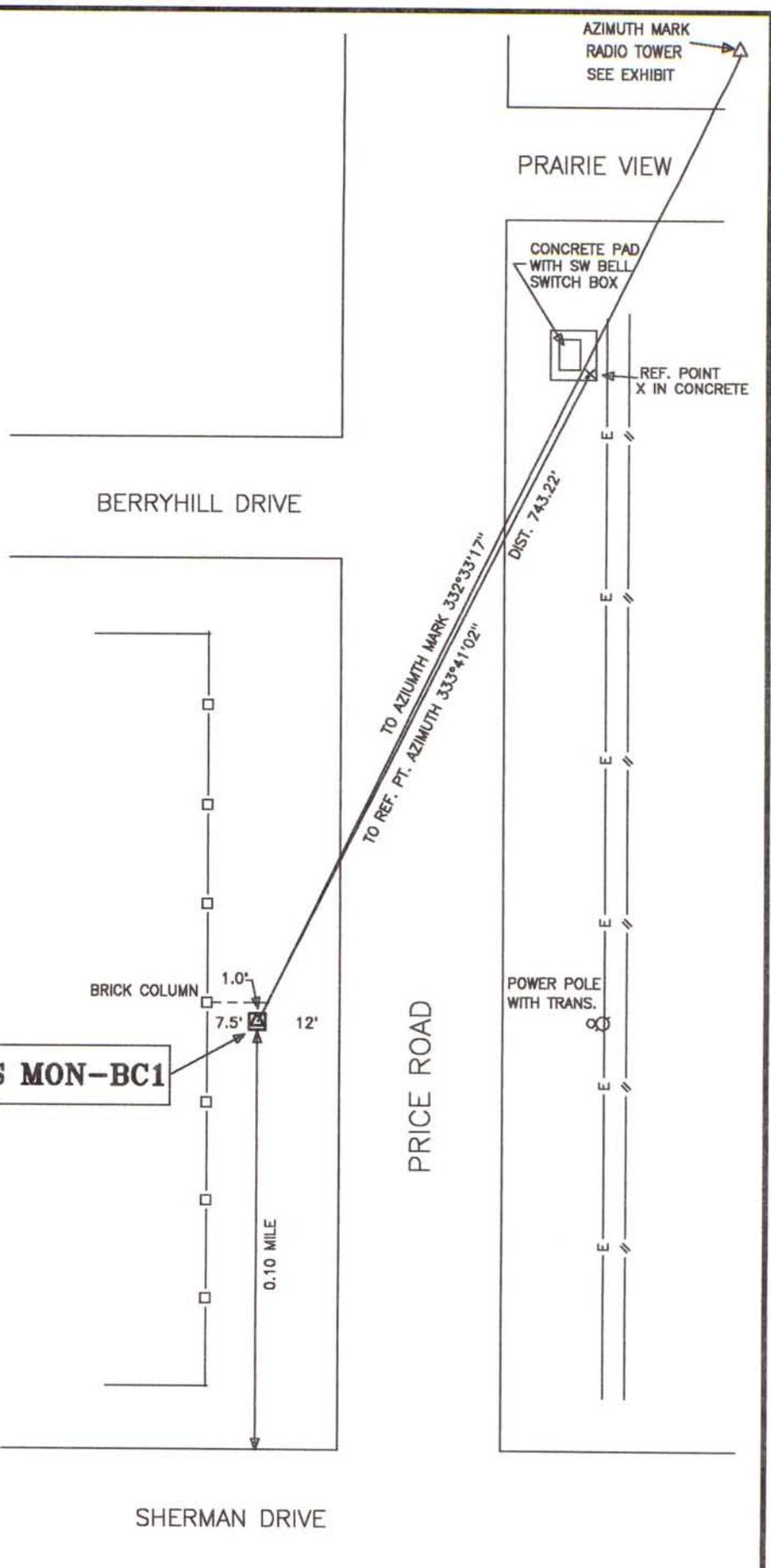
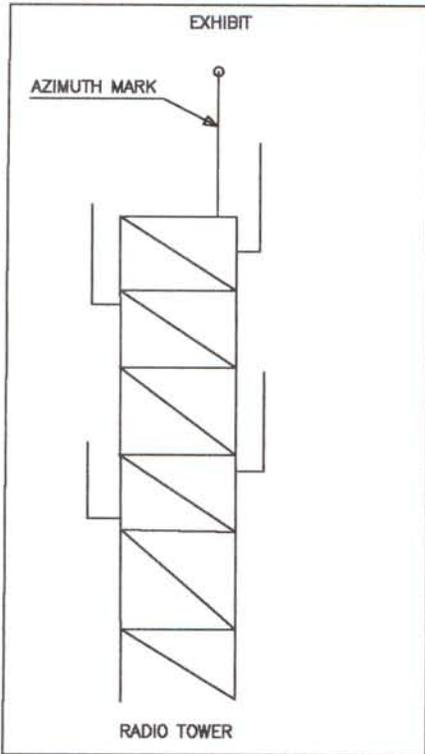
STATION LOCATION:

**FORT WORTH
MAPSCO
124-X**

GPS STATION IS LOCATED ON THE WEST SIDE OF PRICE ROAD BETWEEN BERRYHILL DRIVE AND SHERMAN DRIVE. MONUMENT IS 0.10 MILE NORTH OF SHERMAN DRIVE AND IS 12' WEST OF THE WEST PAVEMENT EDGE OF PRICE ROAD. MONUMENT IS LOCATED ACROSS THE STREET FROM A POWER POLE WITH TRANSFORMER, AND IS 1.0' SOUTH AND 7.5' EAST OF A BRICK COLUMN IN THE FENCE ALONG THE WEST RIGHT-OF-WAY LINE OF PRICE ROAD.

AZIMUTH MARK DESCRIPTION:

ANTENNA ON TOP OF EAST SIDE OF RADIO TOWER LOCATED NORTHWEST OF GPS STATION.
SEE SKETCH ON THE PAGE TO THE RIGHT.



GEODETIC CONTROL DATA SHEET

STATION NAME: MON-BC2	DATE: JUNE 2007
MONUMENT TYPE: BRASS CAP SET IN CONCRETE MONUMENT	
CITY: MANSFIELD	COUNTY: TARRANT STATE: TEXAS
SURVEYOR/ENGINEER: BRITAIN & CRAWFORD LAND SURVEYING	
PROJECT NAME: MANSFIELD GPS CONTROL DATA (2007)	

TEXAS STATE PLANE NAD 83 GRID DATA (U.S. FEET)

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6,890,652.16886	2,387,241.80751
GEOID03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
594.55'		00°44'28.776200"	0.999908671098

GEODETIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°33'48.566382"	NORTH
LONGITUDE	97°08'26.704182"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "

GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 259°03'36" GRID BEARING: S79°03'36"W
GRID AZIMUTH AND DISTANCE TO REFERENCE MARK:	AZIMUTH: N\A DISTANCE: N\A

STATION DESCRIPTION:

BRASS CAP SET IN CONCRETE MONUMENT

STATION LOCATION:

GPS MONUMENT IS LOCATED IN A GRASS AREA ON THE NORTH SIDE OF E. BROAD STREET BETWEEN SMITH STREET AND POND STREET. MONUMENT IS 1.5' NORTH OF THE NORTH CURB LINE OF E.BROAD STREET AND 32.0' EAST OF THE WEST END OF A BOX CULVERT UNDER E. BROAD ST. AND LIES BETWEEN THE NORTH CURB AND THE CONCRETE SIDEWALK.

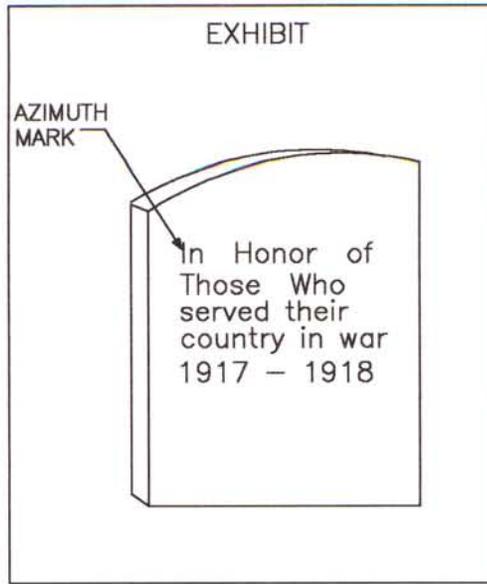
FORT WORTH MAPSCO 124-S

AZIMUTH MARK DESCRIPTION:

MEMORIAL MARKER AT THE SOUTHEAST CORNER OF EAST BROAD STREET AND MAIN STREET. THE AZIMUTH MARK IS THE LETTER I AT THE BEGINNING OF THE ENGRAVING ON THE MEMORIAL STONE. SEE SKETCH ON THE PAGE TO THE RIGHT.



NOT TO SCALE
FORT WORTH MAPSCO
124-S



MAIN STREET

SMITH STREET

GPS MON-BC2

BOX CULVERT

SIDEWALK

CURB LINE

32.0'

1.5'

EAST BROAD STREET

AZIMUTH TO MARK 259°03'36"

MEMORIAL MARKER
AZIMUTH MARK
SEE EXHIBIT

POND STREET

GEODETIC CONTROL DATA SHEET

STATION NAME: MON-BC4	DATE: JUNE 2007
MONUMENT TYPE: "X" IN CONCRETE ON TOP OF CURB	
CITY: MANSFIELD	COUNTY: TARRANT STATE: TEXAS
SURVEYOR/ENGINEER: BRITTAIN & CRAWFORD LAND SURVEYING	
PROJECT NAME: MANSFIELD GPS CONTROL DATA (2007)	

TEXAS STATE PLANE NAD 83 GRID DATA (U.S. FEET)

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6,897,973.04795	2,389,812.00893
GEOID03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
617.10'		00°44'45.762576"	0.999905775832

GEODETIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°35'00.674178"	NORTH
LONGITUDE	97°07'55.559059"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "

GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 08°49'27" GRID BEARING: N08°49'27"E
GRID DISTANCE TO AZIMUTH MARK:	DISTANCE: 1695.19'

STATION DESCRIPTION:

" X " CUT IN TOP OF CONCRETE CURB

STATION LOCATION:

**FORT WORTH
MAPSCO
124-K**

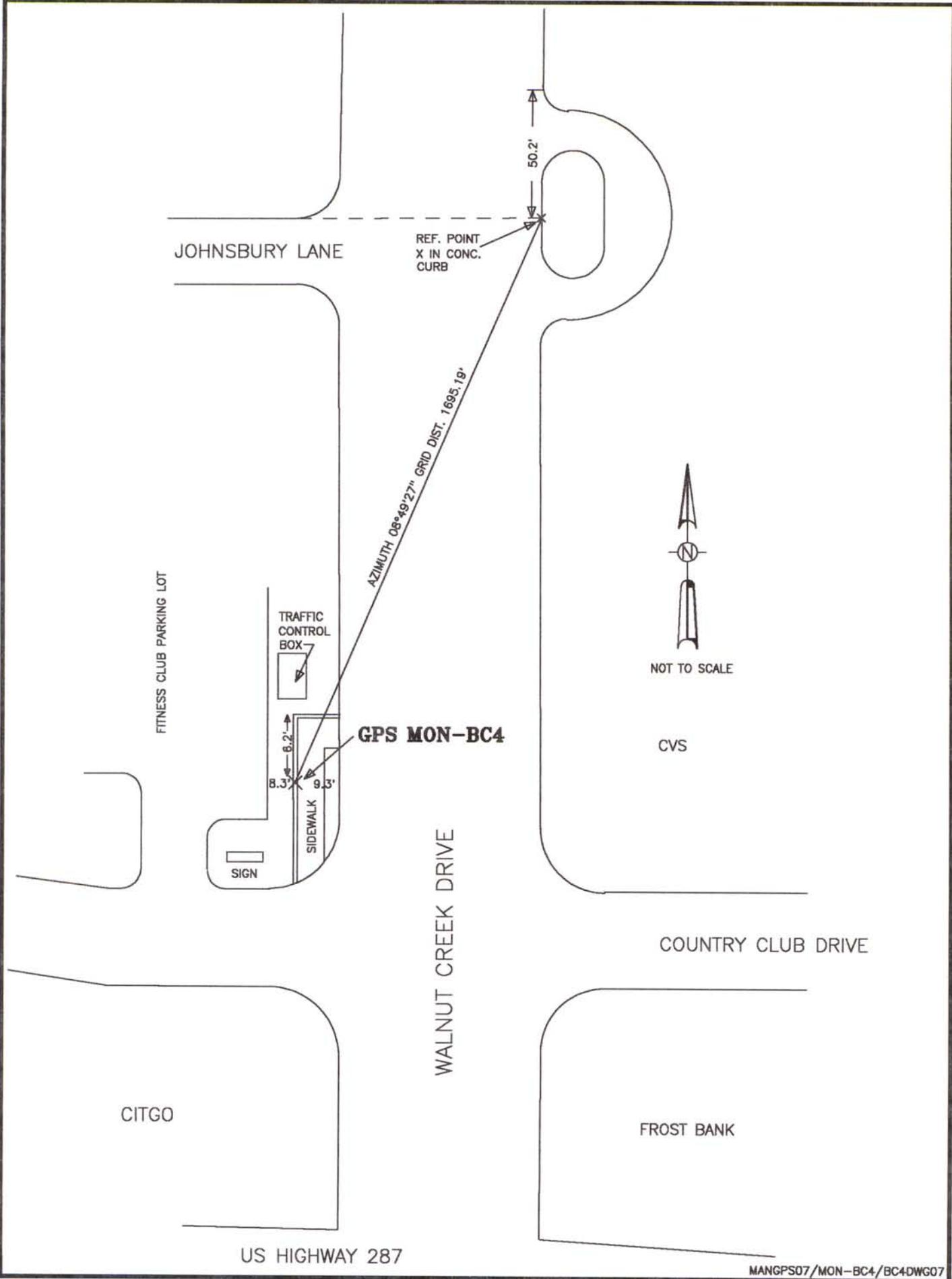
GPS STATION IS AN " X " CUT IN THE TOP OF A CONCRETE CURB ON THE EDGE OF A SIDEWALK AT THE NORTHWEST CORNER OF THE INTERSECTION OF WALNUT CREEK DRIVE AND COUNTRY CLUB DRIVE IN FRONT OF THE FITNESS CLUB. STATION IS 6.2' SOUTH OF A 90° ANGLE POINT OF A SIDEWALK AND 9.3' FROM THE WEST BACK OF CURB OF WALNUT CREEK DRIVE. SEE SKETCH TO THE RIGHT.

AZIMUTH MARK DESCRIPTION:

" X " CUT IN TOP OF THE EAST CURB OF WALNUT CREEK DRIVE ON A BUBBLE AT THE INTERSECTION OF WALNUT CREEK DR. AND AND JOHNSBURY LANE

MANGPS07/MON-BC4/BC4DT07

SEE SKETCH FOR THIS MONUMENT.



GEODETIC CONTROL DATA SHEET

STATION NAME: MON-BC5	DATE: JUNE 2007
MONUMENT TYPE: ALUMINUM DISK IN CONCRETE CURB INLET	
CITY: MANSFIELD	COUNTY: TARRANT STATE: TEXAS
SURVEYOR/ENGINEER: BRITAIN & CRAWFORD LAND SURVEYING	
PROJECT NAME: MANSFIELD GPS CONTROL DATA (2007)	

TEXAS STATE PLANE NAD 83 GRID DATA (U.S. FEET)

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6,901,965.17549	2,397,268.00533
GEOID03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
598.18'		00°45'33.624494"	0.999904278312

GEODETIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°35'39.205762"	NORTH
LONGITUDE	97°06'27.802534"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "

GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 54°42'32" GRID BEARING: N54°42'32"E
GRID AZIMUTH AND DISTANCE TO REFERENCE MARK:	AZIMUTH: 47°00'00" DISTANCE: 466.46'

STATION DESCRIPTION:

ALUMINUM DISK SET IN CONCRETE CURB INLET STAMPED CITY OF MANSFIELD

STATION LOCATION:

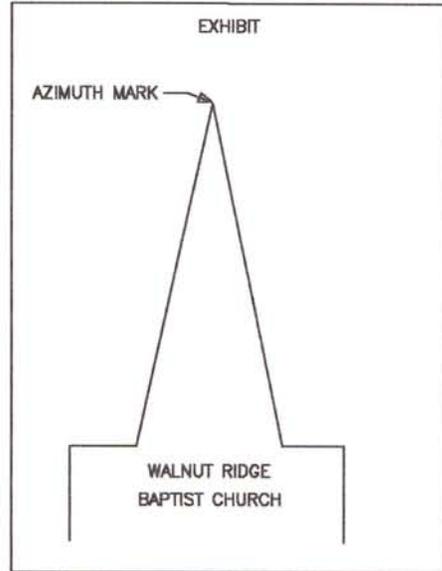
**FORT WORTH
MAPSCO
125-A**

GPS STATION IS AN ALUMINUM DISK IN THE TOP OF A 15' CURB INLET AT THE SOUTHWEST CORNER OF THE INTERSECTION OF MATLOCK ROAD AND COUNTRY CLUB DRIVE.

AZIMUTH MARK DESCRIPTION:

TOP OF CHURCH STEEPLE AT WALNUT RIDGE BAPTIST CHURCH LOCATED NORTHEAST OF GPS STATION. SEE SKETCH FOR THIS MONUMENT.

NOT TO SCALE
FORT WORTH MAPSCO
125-A



MATLOCK ROAD

REF. POINT X IN CONCRETE
CURB INLET

AZIMUTH MARK
CHURCH STEEPLE
SEE EXHIBIT

COUNTRY CLUB DRIVE

GPS MON-BC5

REF. AZIMUTH $47^{\circ}00'00''$ 466.46'

AZIMUTH TO CHURCH STEEPLE $54^{\circ}42'32''$

GEODETIC CONTROL DATA SHEET

STATION NAME: MON-BC6	DATE: JUNE 2007	
MONUMENT TYPE: "X" IN CONCRETE MEDIAN ISLAND		
CITY: MANSFIELD	COUNTY: TARRANT	STATE: TEXAS
SURVEYOR/ENGINEER: BRITAIN & CRAWFORD LAND SURVEYING		
PROJECT NAME: MANSFIELD GPS CONTROL DATA (2007)		

TEXAS STATE PLANE NAD 83 GRID DATA (U.S. FEET)

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6,896,086.11447	2,384,580.30540
GEOID03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
646.46'		00°44'12.260762"	0.999906487267

GEODETIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°34'42.673406"	NORTH
LONGITUDE	97°08'56.985823"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "

GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 129°33'02" GRID BEARING: S50°26'58"E
GRID AZIMUTH AND DISTANCE TO REFERENCE MARK:	AZIMUTH: 142°33'17" DISTANCE: 737.67'

STATION DESCRIPTION:

" X " CUT IN CONCRETE MEDIAN ISLAND

STATION LOCATION:

GPS MONUMENT IS AN X CUT IN THE NORTH END OF THE MEDIAN ISLAND AT THE INTERSECTION OF NORTH MAIN STREET (BUSINESS 287) AND F.M. HIGHWAY No.157 ON THE NORTH SIDE OF MANSFIELD TEXAS. SAID X IS 3.0' EAST OF THE NORTH END OF A CONCRETE WALL LOCATED WITHIN SAID MEDIAN ISLAND. SEE SKETCH TO THE RIGHT FOR DETAILS.

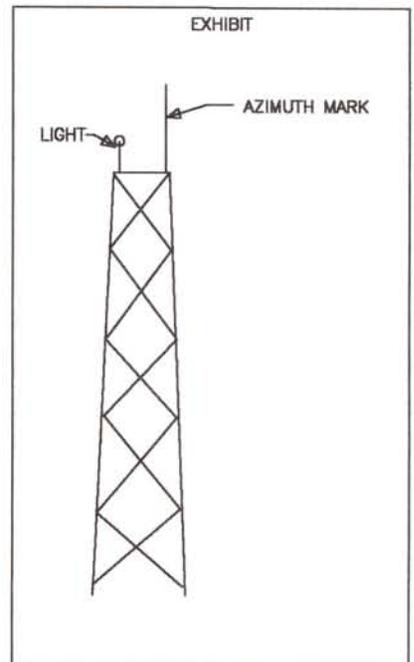
FORT WORTH MAPSCO 123-M

AZIMUTH MARK DESCRIPTION:

AZIMUTH MARK IS A RADIO TOWER LOCATED SOUTHEAST OF THE GPS STATION. THE MARK IS THE ANTENNA ON THE RIGHT SIDE AT THE TOP OF THE RADIO TOWER. SEE SKETCH FOR THIS MONUMENT.



NOT TO SCALE
FORT WORTH MAPSCO
123-M



BUSINESS 287 MAIN STREET

GPS MON-BC6

F.M. HIGHWAY No. 157

AZIMUTH 129°33'02"

3.0'
CONCRETE WALL

AZIMUTH 142°33'17" 737.67'

REF. POINT
3.0'

△ AZIMUTH MARK
RADIO TOWER
SEE EXHIBIT

GEODETIC CONTROL DATA SHEET

STATION NAME: MON-BC7	DATE: JUNE 2007
MONUMENT TYPE: ALUMINUM DISK IN CONCRETE	
CITY: MANSFIELD	COUNTY: TARRANT STATE: TEXAS
SURVEYOR/ENGINEER: BRITTAIN & CRAWFORD LAND SURVEYING	
PROJECT NAME: MANSFIELD GPS CONTROL DATA (2007)	

TEXAS STATE PLANE NAD 83 GRID DATA (U.S. FEET)

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6,894,844.89502	2,376,220.82159
GEOID03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
634.53'		00°43'18.880113"	0.999906934867

GEODETIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°34'31.444816"	NORTH
LONGITUDE	97°10'34.861137"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "

GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 342°23'26" GRID BEARING: N17°36'34"W
GRID AZIMUTH AND DISTANCE TO REFERENCE MARK:	AZIMUTH: 241°57'03" DISTANCE: 604.07'

STATION DESCRIPTION:

ALUMINUM DISK SET IN CONCRETE MONUMENT

STATION LOCATION:

FORT WORTH
MAPSCO
123-N

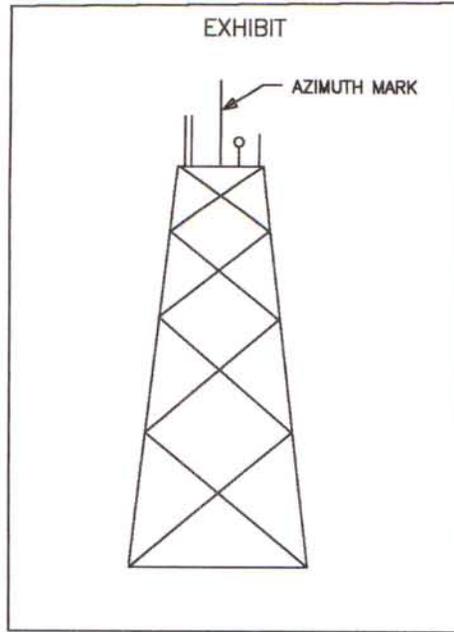
GPS STATION IS AN ALUMINUM DISK SET IN A CONCRETE MONUMENT ON THE NORTHWEST SIDE OF NEWT PATTERSON ROAD 0.6 OF A MILE SOUTHEAST OF F.M. 1187. TO REACH STATION GO SOUTHEAST ON NEWT PATTERSON ROAD FROM F.M. No.1187 0.5 OF A MILE TO A 90° BEND TO THE LEFT. CONTINUE ALONG NEWT PATTERSON 0.1 MILE TO A 90° BEND TO THE RIGHT, STATION WILL BE ON THE LEFT 14' FROM THE RIGHT-OF-WAY FENCE. SEE SKETCH TO THE RIGHT.

AZIMUTH MARK DESCRIPTION:

CENTER ANTENNA ON TOP OF A RADIO TOWER LOCATED NORTHWEST OF GPS STATION.

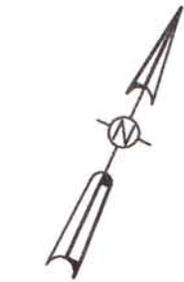
SEE SKETCH ON THE PAGE TO THE RIGHT FOR OBSERVERS VIEW.

F.M. No 1187



NEWT PATTERSON ROAD

PIPE FENCE



GPS MON-BC7

AZIMUTH 342° 23' 26"

AZIMUTH 241° 57' 03" 604.07'

NEWT PATTERSON ROAD

REF. MARK 1/2" IRON ROD

GRAVEL DRIVE

PIPE FENCE

3.0'

29.0'

14.0'

63.0'

GEODETIC CONTROL DATA SHEET

STATION NAME: MON-BC9	DATE: JUNE 2007
MONUMENT TYPE: ALUMINUM DISK IN CONCRETE	
CITY: MANSFIELD	COUNTY: TARRANT STATE: TEXAS
SURVEYOR/ENGINEER: BRITAIN & CRAWFORD LAND SURVEYING	
PROJECT NAME: MANSFIELD GPS CONTROL DATA (2007)	

TEXAS STATE PLANE NAD 83 GRID DATA (U.S. FEET)

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6,874,205.22356	2,387,326.50135
GEOID03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
660.10'		00°44'27.960167"	0.999915650327

GEODETIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°31'05.817800"	NORTH
LONGITUDE	97°08'28.200409"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "

GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 83°17'53" GRID BEARING: N83°17'53"E
GRID AZIMUTH AND DISTANCE TO REFERENCE MARK:	AZIMUTH: 59°46'24" DISTANCE: 770.67'

STATION DESCRIPTION:

ALUMINUM DISK SET IN CONCRETE MONUMENT

STATION LOCATION:

ELLIS\JOHNSON
COUNTY
MAPSCO
973-N

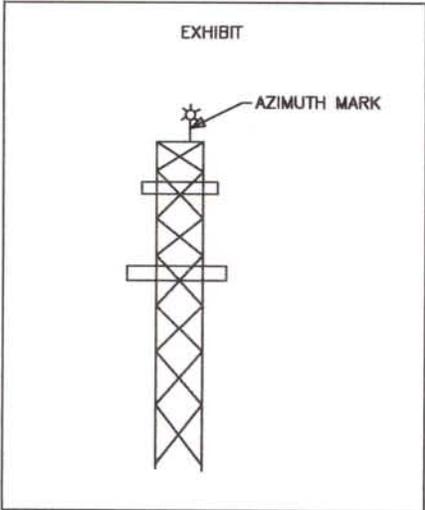
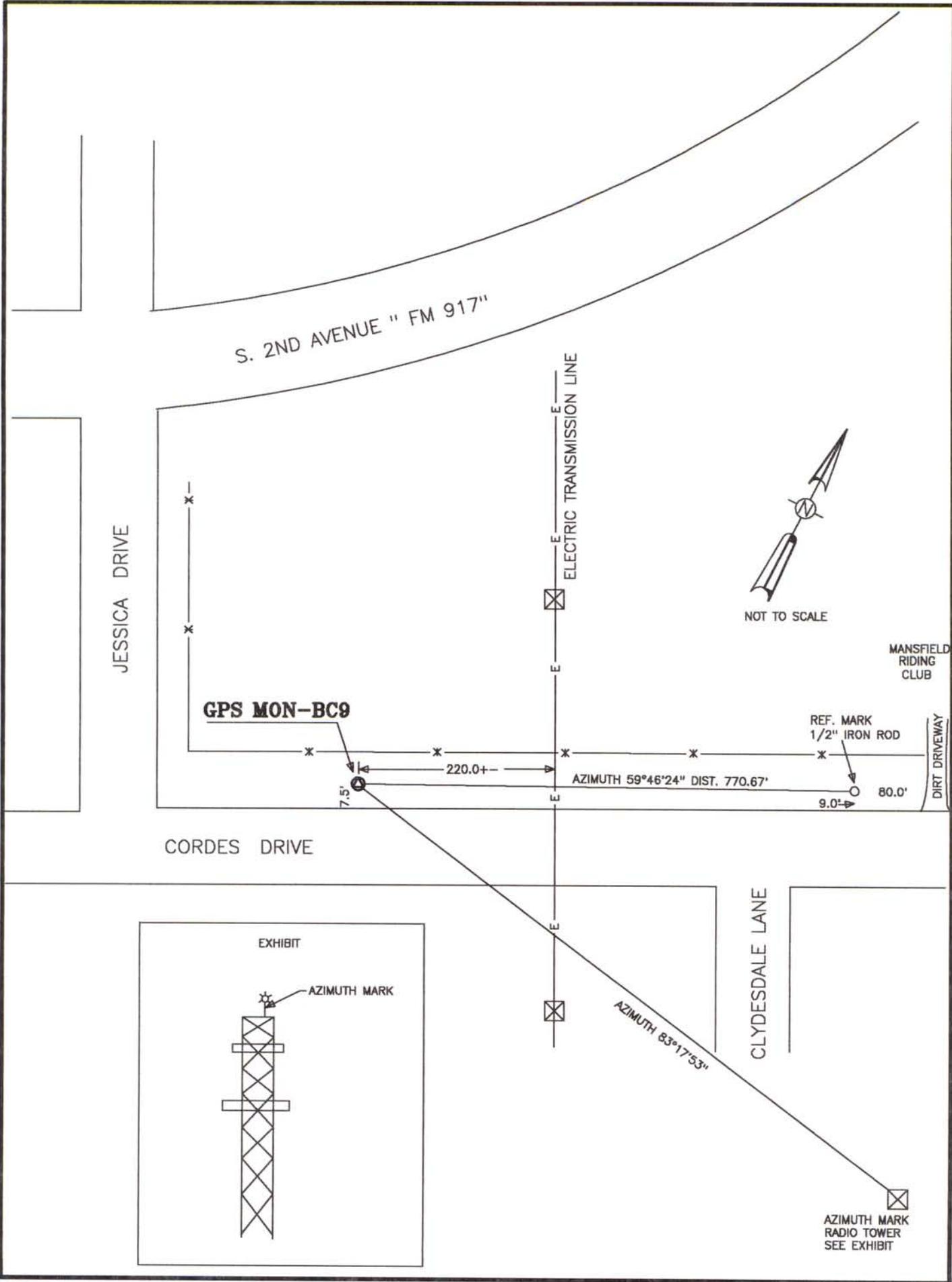
GPS STATION IS AN ALUMINUM DISK SET IN A CONCRETE MONUMENT ON THE NORTH SIDE OF CORDES DRIVE AND EAST OF JESSICA DRIVE, SOUTH OF DOWNTOWN MANSFIELD. TO REACH STATION FROM THE INTERSECTION OF MAIN AND BROAD GO SOUTH ON MAIN ST. 0.5 MILE TO INDUSTRIAL DRIVE; TURN RIGHT AND GO 0.2 MILE TO 2ND AVE. FM 917; TURN LEFT AND GO 2.6 MILE TO JESSICA DRIVE TURN LEFT AND GO 0.2 MILE TO CORDES DRIVE; TURN LEFT GO 215.0' STATION WILL BE ON YOUR LEFT, 7.5 'NORTH OF THE EDGE OF PAVEMENT. SEE SKETCH

AZIMUTH MARK DESCRIPTION:

BLINKING LIGHT POST ON TOP OF RADIO TOWER LOCATED NORTHEAST OF GPS STATION.

SEE SKETCH ON THE PAGE TO THE RIGHT FOR OBSERVERS VIEW.

MANGPS07/MON-BC9/BC9DT07



AZIMUTH MARK
 RADIO TOWER
 SEE EXHIBIT

GEODETIC CONTROL DATA SHEET

STATION NAME: MANSFIELD MONUMENT No. 1-07		DATE: OCTOBER 2007
MONUMENT TYPE: CONCRETE MONUMENT W/ 3" BRASS DISK		
CITY: MANSFIELD	COUNTY: TARRANT	STATE: TEXAS
SURVEYOR/ENGINEER: BRITTAIN & CRAWFORD LAND SURVEYING		
PROJECT NAME: MANSFIELD GPS CONTROL DATA (2007)		

TEXAS STATE PLANE NAD 83 GRID DATA

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6891449.64961	2391715.20128
GEOID03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
611.02		0°44'57.349806"	0.9999083719

GEODETIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°33'55.881416"	NORTH
LONGITUDE	97°07'34.313462"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "	
GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 76°39'16" GRID BEARING: N 76°39'16"E
GRID AZIMUTH AND DISTANCE TO REFERENCE MARK:	AZIMUTH: DISTANCE: 650.43' FEET

STATION DESCRIPTION:

CONCRETE MONUMENT WITH 3" BRASS DISC MARKED
 "GPS CONTROL MONUMENT CITY OF MANSFIELD
 TEXAS" MANSFIELD MONUMENT No. 1-07

STATION LOCATION:

LOCATED AT THE NORTHEAST CORNER OF THE WEST
 ENTRANCE TO CITY HALL AT EAST BROAD STREET, 20.3'
 NORTH OF A MANSFIELD CITY HALL SIGN, 6.0' NORTH OF A
 CONCRETE RUNNER, 18.8' EAST OF A ASPHALT DRIVEWAY,
 25.6' SOUTH OF THE SOUTH CURB OF EAST BROAD STREET

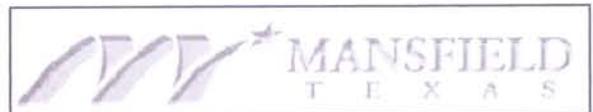


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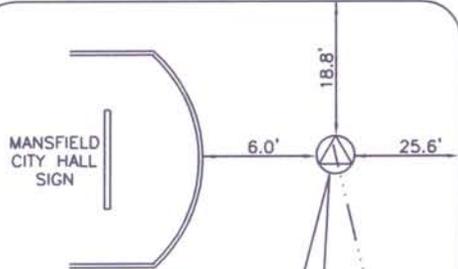
AZIMUTH MARK DESCRIPTION:

"X" CUT ON TOP OF CURB AT THE NOSE
 OF A MEDIAN IN THE CENTER OF EAST
 BROAD STREET ON THE EAST SIDE OF THE
 INTERSECTION OF JUPITER STREET



TO SUB COURTHOUSE

TO CITY HALL



**MANSFIELD
MONUMENT
No. 1-07**

GRID AZIMUTH 76°39'16"
GRID DISTANCE 650.43'

EAST BROAD STREET
(ASPHALT PAVEMENT)

NORTH WILLOW STREET
(ASPHALT PAVEMENT)



DRAWING NOT TO SCALE

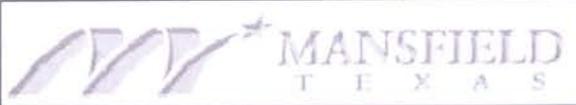


JUPITER STREET
(ASPHALT PAVEMENT)

AZIMUTH MARK
"X" CUT ON TOP OF CURB

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GEODETIC CONTROL DATA SHEET

STATION NAME: MANSFIELD MONUMENT No. 2-07	DATE: OCTOBER 2007
MONUMENT TYPE: CONCRETE MONUMENT W/ 3" BRASS DISK	
CITY: MANSFIELD	COUNTY: TARRANT
STATE: TEXAS	
SURVEYOR/ENGINEER: BRITTAIN & CRAWFORD LAND SURVEYING	
PROJECT NAME: MANSFIELD GPS CONTROL DATA (2007)	

TEXAS STATE PLANE NAD 83 GRID DATA

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6894775.57065	2389332.96739
GEOID03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
613.36'		0°44'42.444081"	0.9999070288

GEODETIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°34'29.097798"	NORTH
LONGITUDE	97°08'01.643637"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "

GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 240°51'31" GRID BEARING: S 60°51'31"W
GRID AZIMUTH AND DISTANCE TO REFERENCE MARK:	AZIMUTH: DISTANCE: 782.251' FEET

STATION DESCRIPTION:

CONCRETE MONUMENT WITH 3" BRASS DISC MARKED
 "GPS CONTROL MONUMENT CITY OF MANSFIELD TEXAS"
 MANSFIELD MONUMENT No. 2-07

STATION LOCATION:

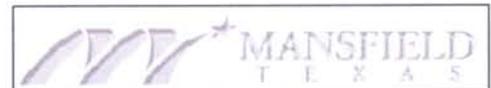
LOCATED AT THE SOUTHWEST CORNER OF PLEASANT RIDGE DRIVE AND PLEASANT RIDGE COURT, 53' SOUTH OF A CHURCH OF CHRIST SIGN, 11' NORTHWEST OF THE NORTHWEST CURB OF PLEASANT RIDGE COURT



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AZIMUTH MARK DESCRIPTION:

"X" CUT ON TOP OF CURB AT THE NOSE OF A MEDIAN IN THE NORTHWEST RIGHT OF WAY OF PLEASANT RIDGE COURT NEAR THE ENTRANCE TO THE CITY OF MANSFIELD WATER PLANT

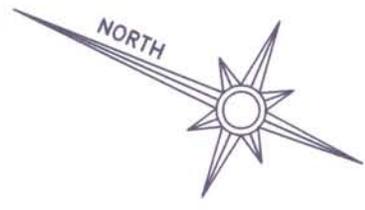


PLEASANT RIDGE DRIVE
(ASPHALT PAVEMENT)

CHURCH OF CHRIST
SIGN

MANSFIELD
MONUMENT
No. 2-07

PLEASANT RIDGE COURT
(ASPHALT PAVEMENT)



DRAWING NOT TO SCALE

GRID AZIMUTH 240°51'31"
GRID DISTANCE 782.25'

DRIVEWAY

TO CITY WATER PLANT

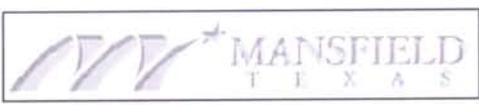
GATE

AZIMUTH MARK
"X" CUT ON
TOP OF CURB

GATE

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GEODETIC CONTROL DATA SHEET

STATION NAME: MANSFIELD MONUMENT No. 3-07		DATE: OCTOBER 2007
MONUMENT TYPE: CONCRETE MONUMENT W/ 3" BRASS DISK		
CITY: MANSFIELD	COUNTY: TARRANT	STATE: TEXAS
SURVEYOR/ENGINEER: BRITAIN & CRAWFORD LAND SURVEYING		
PROJECT NAME: MANSFIELD GPS CONTROL DATA (2007)		

TEXAS STATE PLANE NAD 83 GRID DATA

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6890499.26976	2402890.11940
GEOID03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
586.00'		0°46'08.483084"	0.9999088169

GEODETIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°33'45.012607"	NORTH
LONGITUDE	97°05'23.888074"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "	
GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 14°17'31" GRID BEARING: N 14°17'31"E
GRID AZIMUTH AND DISTANCE TO REFERENCE MARK:	AZIMUTH: DISTANCE: 528.93' FEET

STATION DESCRIPTION:

CONCRETE MONUMENT WITH 3" BRASS DISC MARKED
 "GPS CONTROL MONUMENT CITY OF MANSFIELD TEXAS"
 MANSFIELD MONUMENT No. 3-07

STATION LOCATION:

LOCATED AT THE CENTERLINE MEDIAN OF HERITAGE PARKWAY
 AT THE INTERSECTION OF SOUTH MILLER ROAD, 15.5' WEST
 OF THE WEST MEDIAN NOSE.

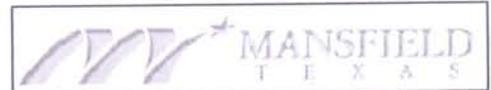


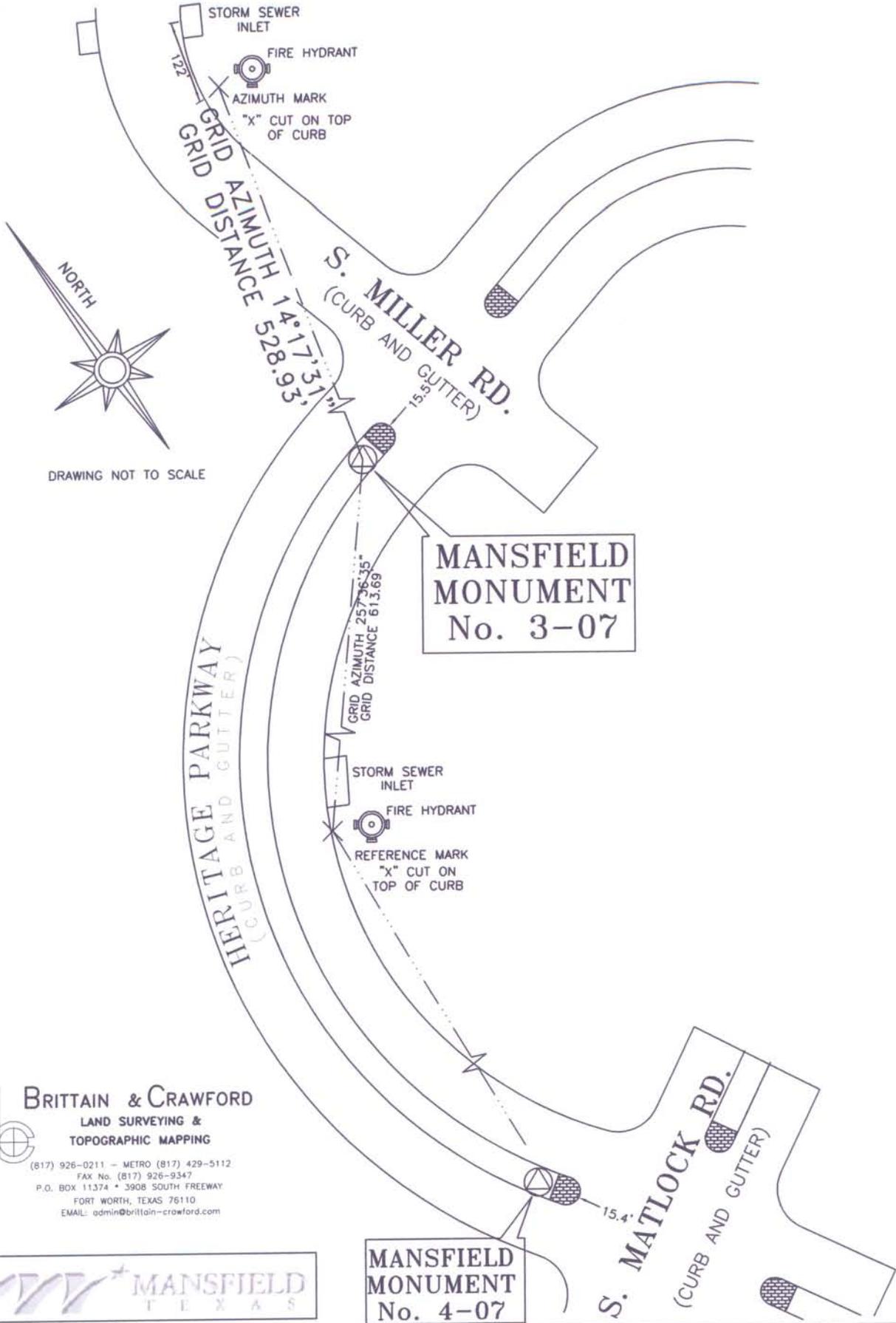
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AZIMUTH MARK DESCRIPTION:

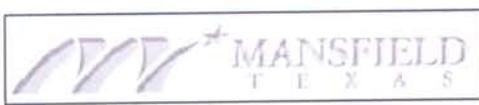
"X" CUT ON TOP OF CURB AT THE CURB
 OF SOUTH MILLER STREET, WEST OF A FIRE
 HYDRANT, 122' SOUTH OF THE CENTER OF
 A CURB INLET





DRAWING NOT TO SCALE

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GEODETIC CONTROL DATA SHEET

STATION NAME: MANSFIELD MONUMENT No. 4-07		DATE: OCTOBER 2007
MONUMENT TYPE: CONCRETE MONUMENT W/ 3" BRASS DISK		
CITY: MANSFIELD	COUNTY: TARRANT	STATE: TEXAS
SURVEYOR/ENGINEER: BRITAIN & CRAWFORD LAND SURVEYING		
PROJECT NAME: MANSFIELD GPS CONTROL DATA (2007)		

TEXAS STATE PLANE NAD 83 GRID DATA

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6890130.55832	2401689.34702
GEOID03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
585.52'		0°46'00.799708"	0.9999089604

GEODETIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°33'41.523596"	NORTH
LONGITUDE	97°05'37.975816"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "

GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 68°29'17" GRID BEARING: N 68°29'17"E
GRID AZIMUTH AND DISTANCE TO REFERENCE MARK:	AZIMUTH: DISTANCE: 646.41' FEET

STATION DESCRIPTION:

CONCRETE MONUMENT WITH 3" BRASS DISC MARKED
 "GPS CONTROL MONUMENT CITY OF MANSFIELD TEXAS"
 MANSFIELD MONUMENT No. 4-07

STATION LOCATION:

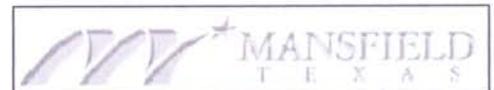
LOCATED AT THE CENTERLINE MEDIAN OF HERITAGE PARKWAY
 AT THE INTERSECTION OF SOUTH MATLOCK ROAD, 15.4'
 NORTH OF THE NORTH MEDIAN NOSE.

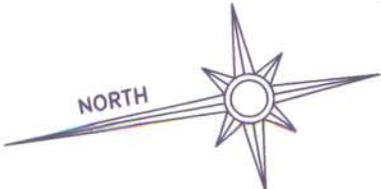


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AZIMUTH MARK DESCRIPTION:

"X" CUT ON TOP OF CURB AT THE EAST
 CURB OF HERITAGE PARKWAY, NORTHWEST
 OF A FIRE HYDRANT, SOUTHWEST OF A
 CURB INLET





DRAWING NOT TO SCALE

S. MILLER RD.
(CURB AND GUTTER)

MANSFIELD
MONUMENT
No. 3-07

HERITAGE PARKWAY
(CURB AND GUTTER)

STORM SEWER
INLET
FIRE HYDRANT
AZIMUTH MARK
"X" CUT ON
TOP OF CURB

GRID AZIMUTH 68°29'17"
GRID DISTANCE 646.41'

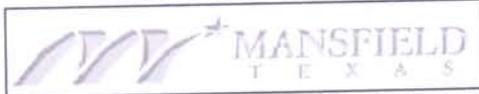
S. MATLOCK RD.
(CURB AND GUTTER)

MANSFIELD
MONUMENT
No. 4-07



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GEODETIC CONTROL DATA SHEET

STATION NAME: MANSFIELD MONUMENT No. 5-07		DATE: OCTOBER 2007
MONUMENT TYPE: CONCRETE MONUMENT W/ 3" BRASS DISK		
CITY: MANSFIELD	COUNTY: TARRANT	STATE: TEXAS
SURVEYOR/ENGINEER: BRITAIN & CRAWFORD LAND SURVEYING		
PROJECT NAME: MANSFIELD GPS CONTROL DATA (2007)		

TEXAS STATE PLANE NAD 83 GRID DATA

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6894127.89761	2407646.70480
GEOID03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
588.68'		0°46'39.108173"	0.9999073828

GEODETIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°34'20.281318"	NORTH
LONGITUDE	97°04'27.735887"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "	
GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 166°57'00" GRID BEARING: S 13°03'00"E
GRID AZIMUTH AND DISTANCE TO REFERENCE MARK:	AZIMUTH: DISTANCE: 259.12' FEET

STATION DESCRIPTION:

CONCRETE MONUMENT WITH 3" BRASS DISC MARKED
 "GPS CONTROL MONUMENT CITY OF MANSFIELD TEXAS"
 MANSFIELD MONUMENT No. 5-07

STATION LOCATION:

LOCATED AT THE MIDDLE ROAD INSIDE A LOOP OF PARK
 ROADS AT THE MANSFIELD SPORTS COMPLEX, 13.5' SOUTH
 OF THE SOUTH EDGE OF PAVEMENT, 10' SOUTH OF A STREET
 LIGHT

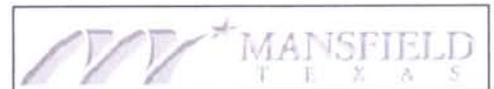


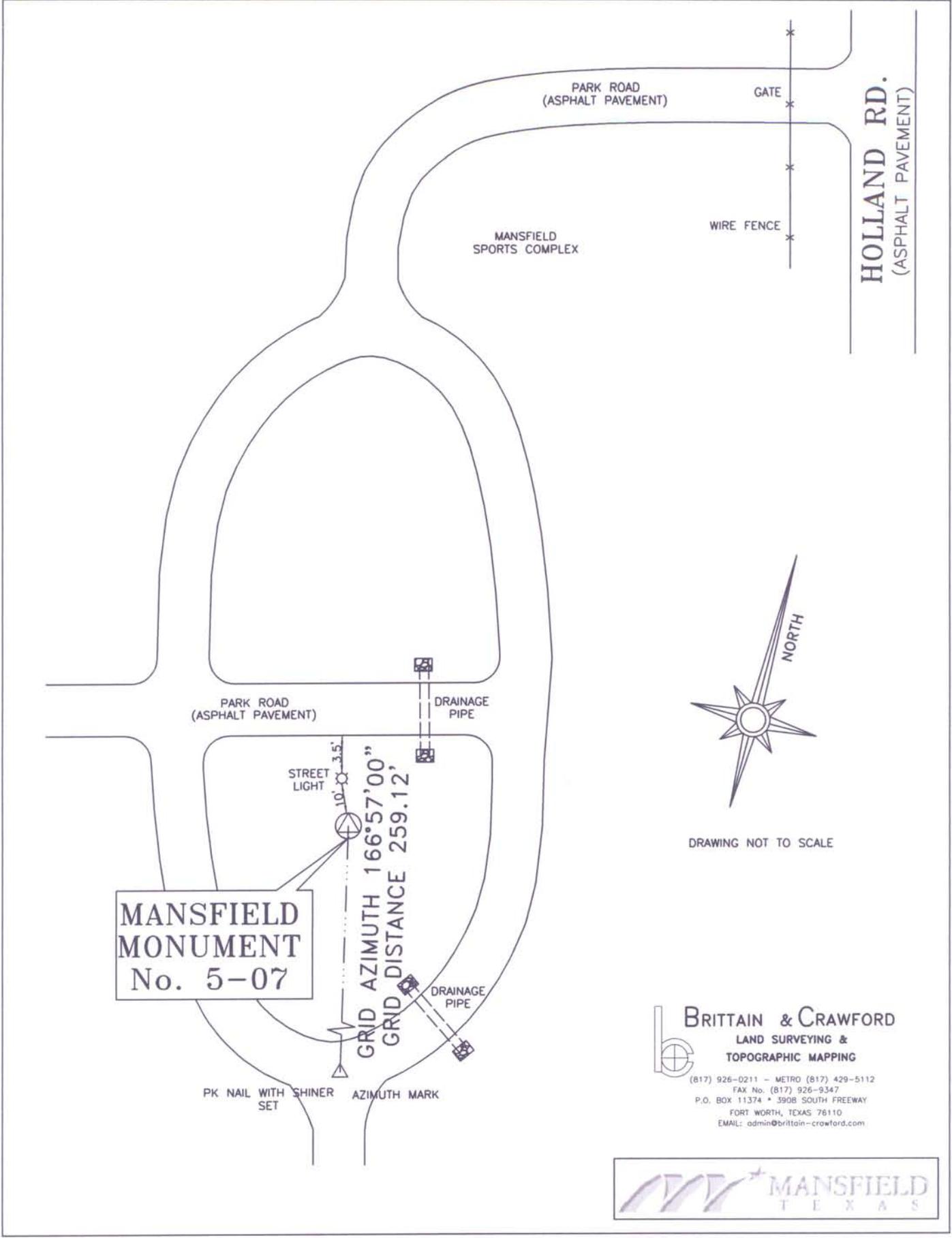
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AZIMUTH MARK DESCRIPTION:

"PK" NAIL IN AN ALUMINUM SHINER IN THE
 PAVED ROAD AT THE SOUTH INTERSECTION
 OF PARK ROAD LOOP

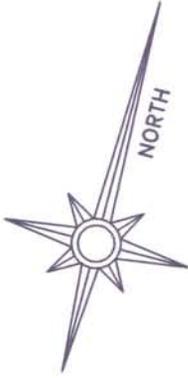




**MANSFIELD
MONUMENT
No. 5-07**

STREET LIGHT
3.5'
10'
GRID AZIMUTH 166°57'00"
GRID DISTANCE 259.12'

PK NAIL WITH SHINER SET
AZIMUTH MARK

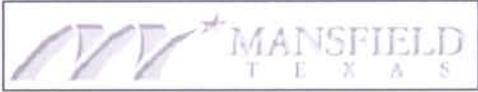


DRAWING NOT TO SCALE



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GEODETIC CONTROL DATA SHEET

STATION NAME: MANSFIELD MONUMENT No. 6-07		DATE: OCTOBER 2007
MONUMENT TYPE: CONCRETE MONUMENT W/ 3" BRASS DISK		
CITY: MANSFIELD	COUNTY: TARRANT	STATE: TEXAS
SURVEYOR/ENGINEER: BRITAIN & CRAWFORD LAND SURVEYING		
PROJECT NAME: MANSFIELD GPS CONTROL DATA (2007)		

TEXAS STATE PLANE NAD 83 GRID DATA

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6898852.01363	2411615.68768
GEOID03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
571.44'		0°47'04.815557"	0.9999055476

GEODETIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°35'06.489208"	NORTH
LONGITUDE	97°03'40.600487"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "	
GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 56°03'15" GRID BEARING: N 56°03'15"E
GRID AZIMUTH AND DISTANCE TO REFERENCE MARK:	AZIMUTH: DISTANCE: 383.57' FEET

STATION DESCRIPTION:

CONCRETE MONUMENT WITH 3" BRASS DISC MARKED
 "GPS CONTROL MONUMENT CITY OF MANSFIELD TEXAS"
 MANSFIELD MONUMENT No. 6-07

STATION LOCATION:

LOCATED AT THE NORTHWEST CORNER DAY MIAR AND
 ENGLAND PARKWAY, 2.7' WEST OF THE WEST CURB OF
 ENGLAND PARKWAY, 11.8' NORTH OF AN ARC IN A CONCRETE
 SIDEWALK, 11' SOUTH OF A STREET SIGN

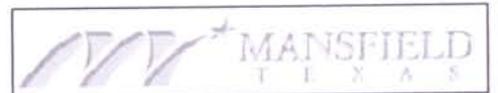


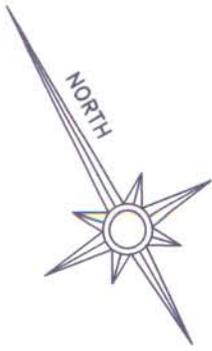
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AZIMUTH MARK DESCRIPTION:

"X" CUT ON TOP OF CURB AT A CONCRETE
 PAD FOR A FIRE HYDRANT IN THE
 SOUTHEAST CURB LINE OF ENGLAND STREET





DRAWING NOT TO SCALE

MIRA LAGOS
SUBDMISION

ENGLAND PARKWAY
(CURB AND GUTTER)

"x" CUT ON
TOP OF CURB
AZIMUTH MARK
FIRE HYDRANT

GRID AZIMUTH 56°03'15"
GRID DISTANCE 383.57'

CONCRETE SIDEWALK

STREET SIGN

STREET SIGN

MANSFIELD
MONUMENT
No. 6-07

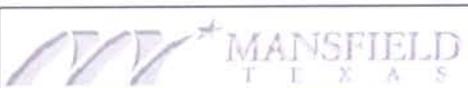
DAY MIAR
(ASPHALT PAVEMENT)

EAST BROAD STREET
(ASPHALT PAVEMENT)



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GEODETIC CONTROL DATA SHEET

STATION NAME: MANSFIELD MONUMENT No. 7-07		DATE: OCTOBER 2007
MONUMENT TYPE: CONCRETE MONUMENT W/ 3" BRASS DISK		
CITY: MANSFIELD	COUNTY: TARRANT	STATE: TEXAS
SURVEYOR/ENGINEER: BRITAIN & CRAWFORD LAND SURVEYING		
PROJECT NAME: MANSFIELD GPS CONTROL DATA (2007)		

TEXAS STATE PLANE NAD 83 GRID DATA

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6903502.07745	2390026.11147
GEOID03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
635.46'		0°44'47.586499"	0.9999036610

GEODETIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°35'55.354625"	NORTH
LONGITUDE	97°07'52.214832"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "

GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 315°11'27" GRID BEARING: N 44°48'33"W
GRID AZIMUTH AND DISTANCE TO REFERENCE MARK:	AZIMUTH: DISTANCE: 355.19' FEET

STATION DESCRIPTION:

CONCRETE MONUMENT WITH 3" BRASS DISC MARKED
 "GPS CONTROL MONUMENT CITY OF MANSFIELD TEXAS"
 MANSFIELD MONUMENT No. 7-07

STATION LOCATION:

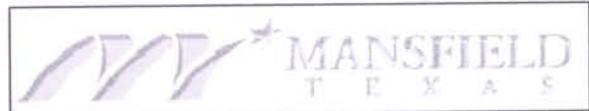
LOCATED AT THE EAST CORNER DEBBIE LANE AND WALNUT CREEK DRIVE, 12.7' NORTHEAST OF THE NORTHEAST CURB OF WALNUT CREEK DRIVE, 0.8' SOUTHWEST OF A TELEPHONE RISER, 88.4' SOUTHEAST OF THE SOUTHEAST CURB OF DEBBIE LANE



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AZIMUTH MARK DESCRIPTION:

"X" CUT ON TOP OF WEST CORNER OF A CURB INLET ON THE SOUTHWEST CURB OF WALNUT CREEK DRIVE, NORTHWEST OF DEBBIE LANE



AZIMUTH MARK
"X" CUT ON
TOP OF INLET



GRID AZIMUTH 315°11'26" GRID DISTANCE 355.19'

DEBBIE LANE
(ASPHALT PAVEMENT)

WALNUT CREEK DRIVE
(ASPHALT PAVEMENT)

88.4'

12.7'

0.8'

TELEPHONE RISER

MANSFIELD
MONUMENT
No. 7-07



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GEODETIC CONTROL DATA SHEET

STATION NAME: MANSFIELD MONUMENT No. 8-07		DATE: OCTOBER 2007
MONUMENT TYPE: CONCRETE MONUMENT W/ 3" BRASS DISK		
CITY: MANSFIELD	COUNTY: TARRANT	STATE: TEXAS
SURVEYOR/ENGINEER: BRITAIN & CRAWFORD LAND SURVEYING		
PROJECT NAME: MANSFIELD GPS CONTROL DATA (2007)		

TEXAS STATE PLANE NAD 83 GRID DATA

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6906409.70093	2394738.33387
GEOID03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
647.84'		0°45'17.871717"	0.9999025990

GEODETIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°36'23.513643"	NORTH
LONGITUDE	97°06'56.685811"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "

GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 246°14'54" GRID BEARING: S 66°14'54"W
GRID AZIMUTH AND DISTANCE TO REFERENCE MARK:	AZIMUTH: DISTANCE: 435.36' FEET

STATION DESCRIPTION:

CONCRETE MONUMENT WITH 3" BRASS DISC MARKED
 "GPS CONTROL MONUMENT CITY OF MANSFIELD TEXAS"
 MANSFIELD MONUMENT No. 8-07

STATION LOCATION:

LOCATED AT THE CENTER MEDIAN OF DEBBIE LANE AT THE INTERSECTION OF MATLOCK ROAD, 15.3' SOUTHWEST OF THE WEST MEDIAN NOSE, AND THE NORTH CORNER OF ROCK RUNNER,

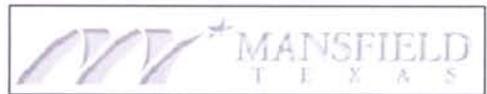


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AZIMUTH MARK DESCRIPTION:

"X" CUT ON TOP OF NORTH CORNER OF A 20' CURB INLET ON THE NORTHWEST CURB OF DEBBIE LANE



MATLOCK ROAD
(CURB AND GUTTER)

**MANSFIELD
MONUMENT
No. 8-07**

GRID AZIMUTH $246^{\circ}14'54''$
GRID DISTANCE $435.36'$

ROCK
RUNNER

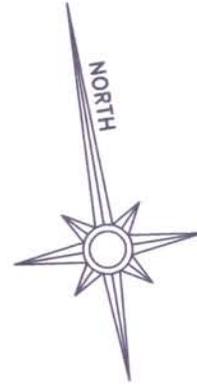
15.3'

DEBBIE LANE
(CURB AND GUTTER)

KROGER

AZIMUTH MARK

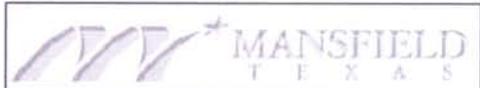
"X" CUT ON
TOP OF CURB



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GEODETIC CONTROL DATA SHEET

STATION NAME: MANSFIELD MONUMENT No. 9-07		DATE: OCTOBER 2007
MONUMENT TYPE: CONCRETE MONUMENT W/ 3" BRASS DISK		
CITY: MANSFIELD	COUNTY: TARRANT	STATE: TEXAS
SURVEYOR/ENGINEER: BRITAIN & CRAWFORD LAND SURVEYING		
PROJECT NAME: MANSFIELD GPS CONTROL DATA (2007)		

TEXAS STATE PLANE NAD 83 GRID DATA

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6878521.35684	2405313.69700
GEOID03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
604.50'		0°46'22.897430"	0.9999138623

GEODETIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°31'46.172736"	NORTH
LONGITUDE	97°04'57.458860"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "	
GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 339°07'04" GRID BEARING: N 20°52'56"W
GRID AZIMUTH AND DISTANCE TO REFERENCE MARK:	AZIMUTH: DISTANCE: 181.48' FEET

STATION DESCRIPTION:

CONCRETE MONUMENT WITH 3" BRASS DISC MARKED
 "GPS CONTROL MONUMENT CITY OF MANSFIELD TEXAS"
 MANSFIELD MONUMENT 9-07

STATION LOCATION:

LOCATED AT THE SOUTHWEST CORNER OF HIGHWAY 360 TWO
 WAY SERVICE ROAD AND DAVIS ROAD, AT THE SOUTHEAST
 NOSE OF AN ASPHALT COVERED CONCRETE TURN LANE
 ISLAND

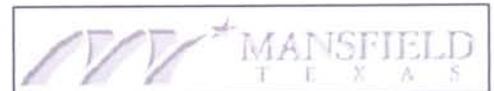


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AZIMUTH MARK DESCRIPTION:

"X" CUT ON TOP OF THE TURN LANE
 ISLAND AT THE NORTHWEST CORNER, AT
 THE NORTHEAST CORNER OF HIGHWAY 360
 AND DAVIS ROAD



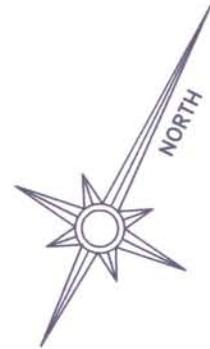
STATE HIGHWAY No. 360
(SERVICE ROAD)
(TWO WAY)

MANSFIELD
MONUMENT
No. 9-07

AZIMUTH MARK
"X" CUT ON
TOP OF CURB

GRID AZIMUTH 339°07'04"
GRID DISTANCE 181.48'

DAVIS ROAD
(ASPHALT PAVEMENT)

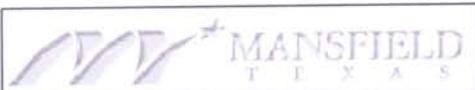


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GEODETIC CONTROL DATA SHEET

STATION NAME: MANSFIELD MONUMENT No. 10-07	DATE: OCTOBER 2007
MONUMENT TYPE: CONCRETE MONUMENT W/ 3" BRASS DISK	
CITY: MANSFIELD	COUNTY: TARRANT
STATE: TEXAS	
SURVEYOR/ENGINEER: BRITAIN & CRAWFORD LAND SURVEYING	
PROJECT NAME: MANSFIELD GPS CONTROL DATA (2007)	

TEXAS STATE PLANE NAD 83 GRID DATA

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6895643.16731	2406052.89305
GEOID03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
601.58'		0°46'29.081094"	0.9999067734

GEODETIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°34'35.487983"	NORTH
LONGITUDE	97°04'46.120892"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "

GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 278°03'34" GRID BEARING: N 81°56'26"W
GRID AZIMUTH AND DISTANCE TO REFERENCE MARK:	AZIMUTH: DISTANCE: 719.54' FEET

STATION DESCRIPTION:

CONCRETE MONUMENT WITH 3" BRASS DISC MARKED
 "GPS CONTROL MONUMENT CITY OF MANSFIELD TEXAS"
 MANSFIELD MONUMENT No. 10-07

STATION LOCATION:

LOCATED AT THE SOUTHEAST CORNER HIGHWAY 360
 NORTHBOUND SERVICE ROAD AND EAST BROAD STREET,
 157.7' NORTH OF NORTHERN MOST PARKING ENTRANCE TO
 MANSFIELD ISD ATHLETIC COMPLEX, 25.4' EAST OF EAST
 CURB TO HIGHWAY 360 NORTHBOUND SERVICE ROAD, 10'
 WEST OF MANSFIELD ISD SIGN

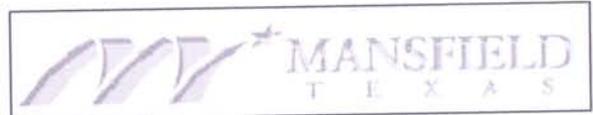


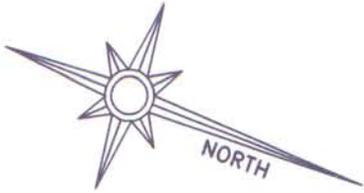
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AZIMUTH MARK DESCRIPTION:

1/2" IRON ROD WITH RED "RANDOM" CAP
 SET AT THE NOSE OF A MEDIAN IN THE
 CENTER OF EAST BROAD STREET AT THE
 INTERSECTION WITH HIGHWAY 360
 SOUTHBOUND SERVICE ROAD





DRAWING NOT TO SCALE

AZIMUTH MARK
1/2" IRON ROD W/
RED PLASTIC CAP

STATE HIGHWAY No. 360

SOUTHBOUND SERVICE ROAD
(ASPHALT PAVEMENT)

EAST BROAD STREET
(ASPHALT PAVEMENT)

GRID AZIMUTH 278°03'34"
GRID DISTANCE 719.54'

STATE HIGHWAY No. 360

NORTHBOUND SERVICE ROAD
(ASPHALT PAVEMENT)

NORTHERN MOST
ENTRANCE TO
PARKING LOT

157.7'

25.4'

MANSFIELD I.S.D.
SIGN

**MANSFIELD
MONUMENT
No. 10-07**

CURB INLET

MANSFIELD
ATHLETIC COMPLEX

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GEODETIC CONTROL DATA SHEET

STATION NAME: MANSFIELD MONUMENT No. 11-07		DATE: OCTOBER 2007
MONUMENT TYPE: CONCRETE MONUMENT W/ 3" BRASS DISK		
CITY: MANSFIELD	COUNTY: TARRANT	STATE: TEXAS
SURVEYOR/ENGINEER: BRITAIN & CRAWFORD LAND SURVEYING		
PROJECT NAME: MANSFIELD GPS CONTROL DATA (2007)		

TEXAS STATE PLANE NAD 83 GRID DATA

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6894137.05635	2402698.36630
GEOID03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
609.52'		0°46'07.572199"	0.9999073525

GEODETIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°34'21.032674"	NORTH
LONGITUDE	97°05'25.558213"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "

GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 226°50'02" GRID BEARING: S 46°50'02"W
GRID AZIMUTH AND DISTANCE TO REFERENCE MARK:	AZIMUTH: DISTANCE: 1175.56' FEET

STATION DESCRIPTION:

CONCRETE MONUMENT WITH 3" BRASS DISC MARKED
 "GPS CONTROL MONUMENT CITY OF MANSFIELD TEXAS"
 MANSFIELD MONUMENT No. 11-07

STATION LOCATION:

LOCATED IN THE CENTERLINE MEDIAN OF EAST BROAD STREET, 50' EAST OF THE WEST NOSE OF THE MEDIAN OF EAST BROAD STREET, ACROSS FROM MANSFIELD HIGH SCHOOL

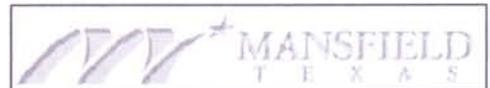


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AZIMUTH MARK DESCRIPTION:

"X" CUT ON TOP OF SOUTH END OF A CURB INLET AT THE SOUTHWEST CORNER OF EAST BROAD STREET AND MILLER ROAD



AZIMUTH MARK

1" X 1" CUT ON TOP OF INLET

MILLER ROAD
(ASPHALT PAVEMENT)

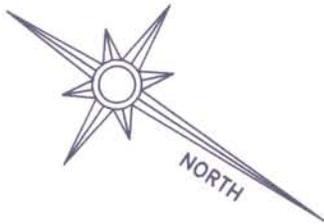
EAST BROAD STREET
(ASPHALT PAVEMENT)

CONCRETE DRIVEWAY

MANSFIELD HIGH SCHOOL

MANSFIELD MONUMENT
No. 11-07

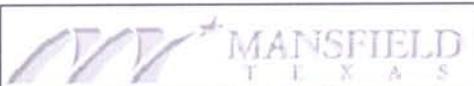
GRID AZIMUTH 226°50'02"
GRID DISTANCE 1175.56'



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GEODETIC CONTROL DATA SHEET

STATION NAME: MANSFIELD MONUMENT No. 12-07		DATE: OCTOBER 2007
MONUMENT TYPE: CONCRETE MONUMENT W/ 3" BRASS DISK		
CITY: MANSFIELD	COUNTY: TARRANT	STATE: TEXAS
SURVEYOR/ENGINEER: BRITTAIN & CRAWFORD LAND SURVEYING		
PROJECT NAME: MANSFIELD GPS CONTROL DATA (2007)		

TEXAS STATE PLANE NAD 83 GRID DATA

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6886671.40510	2408279.64802
GEOID03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
570.03'		0°46'42.496328"	0.9999104195

GEODETIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°33'06.417087"	NORTH
LONGITUDE	97°04'21.523585"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "	
GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 90°06'21" GRID BEARING: S 89°53'39"E
GRID AZIMUTH AND DISTANCE TO REFERENCE MARK:	AZIMUTH: DISTANCE: 1253.51' FEET

STATION DESCRIPTION:

CONCRETE MONUMENT WITH 3" BRASS DISC MARKED
 "GPS CONTROL MONUMENT CITY OF MANSFIELD TEXAS"
 MANSFIELD MONUMENT No. 12-07

STATION LOCATION:

LOCATED AT THE WEST SIDE OF A CUL D' SAC AT THE
 INTERSECTION OF HOGAN ALLEY DRIVE AND EAGLE DRIVE, 4.5'
 WEST OF THE EAST EDGE OF A CONCRETE SIDEWALK, ALONG
 THE PROJECTED CENTERLINE OF EAGLE DRIVE.

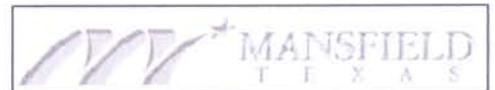
AZIMUTH MARK DESCRIPTION:

"X" FOUND IN CONCRETE ROAD AT THE
 CENTERLINE INTERSECTION OF EAGLE DRIVE
 AND PLAYER DRIVE



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NORTH

DRAWING NOT TO SCALE

MANSFIELD
MONUMENT
No. 12-07



CONCRETE
SIDEWALK

GRID AZIMUTH $90^{\circ}06'20''$ GRID DISTANCE 1253.51'

HOGAN ALLEY DRIVE
(CURB AND GUTTER)

EAGLE DRIVE
(CURB AND GUTTER)

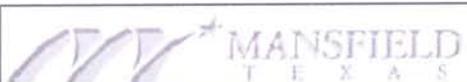
PLAYER DRIVE
(CURB AND GUTTER)

AZIMUTH MARK
"X" CUT



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GEODETIC CONTROL DATA SHEET

STATION NAME: MANSFIELD MONUMENT No. 13-07		DATE: OCTOBER 2007
MONUMENT TYPE: CONCRETE MONUMENT W/ 3" BRASS DISK		
CITY: MANSFIELD	COUNTY: TARRANT	STATE: TEXAS
SURVEYOR/ENGINEER: BRITAIN & CRAWFORD LAND SURVEYING		
PROJECT NAME: MANSFIELD GPS CONTROL DATA (2007)		

TEXAS STATE PLANE NAD 83 GRID DATA

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6888399.29731	2405759.43060
GEOID03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
579.95'		0°46'26.586946"	0.9999096913

GEODETIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°33'23.851809"	NORTH
LONGITUDE	97°04'50.694001"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "

GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 332°20'12" GRID BEARING: N 27°39'48"W
GRID AZIMUTH AND DISTANCE TO REFERENCE MARK:	AZIMUTH: DISTANCE: 877.02' FEET

STATION DESCRIPTION:

CONCRETE MONUMENT WITH 3" BRASS DISC MARKED
 "GPS CONTROL MONUMENT CITY OF MANSFIELD
 TEXAS" MANSFIELD MONUMENT No. 13-07"

STATION LOCATION:

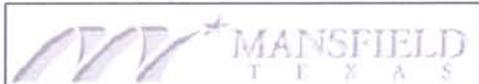
LOCATED IN THE CENTER MEDIAN OF MILLER ROAD ON THE
 SOUTH SIDE OF THE INTERSECTION OF NATIONAL PARKWAY, 4'
 SOUTH OF THE SOUTH EDGE OF BRICK PAVERS

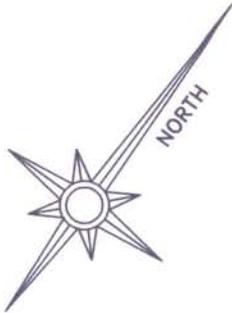
AZIMUTH MARK DESCRIPTION:

CITY OF MANSFIELD BENCHMARK MONUMENT
 # 232 SET IN THE SOUTH END OF A CURB
 INLET ALONG THE EAST CURB OF MILLER
 ROAD NORTH OF NATIONAL PARKWAY



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MILLER ROAD
(CURB AND GUTTER)

GRID AZIMUTH 332°20'12"
GRID DISTANCE 877.02'

AZIMUTH MARK
EXISTING
CITY OF MANSFIELD
BENCHMARK MONUMENT
No. 232

CONCRETE DRIVEWAY

NATIONAL PARKWAY
(CURB AND GUTTER)

BRICK

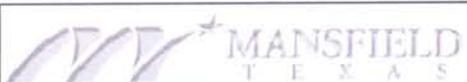
(ASPHALT PAVEMENT)

MANSFIELD
MONUMENT
No. 13-07



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GEODETIC CONTROL DATA SHEET

STATION NAME: MANSFIELD MONUMENT No. 14-07		DATE: OCTOBER 2007
MONUMENT TYPE: CONCRETE MONUMENT W/ 3" BRASS DISK		
CITY: MANSFIELD	COUNTY: TARRANT	STATE: TEXAS
SURVEYOR/ENGINEER: BRITAIN & CRAWFORD LAND SURVEYING		
PROJECT NAME: MANSFIELD GPS CONTROL DATA (2007)		

TEXAS STATE PLANE NAD 83 GRID DATA

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6887213.52878	2395028.40471
GEOID03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
613.66'		0°45'18.108214"	0.9999101213

GEODETIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°33'13.535959"	NORTH
LONGITUDE	97°06'56.252185"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "

GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 266°16'44" GRID BEARING: S 86°16'44"W
GRID AZIMUTH AND DISTANCE TO REFERENCE MARK:	AZIMUTH: DISTANCE: 947.95' FEET

STATION DESCRIPTION:
 CONCRETE MONUMENT WITH 3" BRASS DISC MARKED
 "GPS CONTROL MONUMENT CITY OF MANSFIELD TEXAS"
 MANSFIELD MONUMENT No. 14-07"

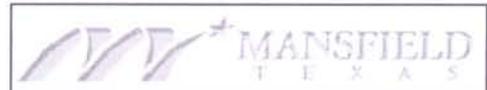
STATION LOCATION:
 LOCATED IN THE CENTER MEDIAN OF HERITAGE PARKWAY AT
 THE INTERSECTION OF COMMERCE DRIVE, 50' WEST OF THE
 WEST MEDIAN NOSE.

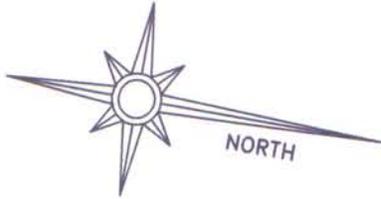
AZIMUTH MARK DESCRIPTION:
 CITY OF MANSFIELD BENCHMARK MONUMENT
 # 114 SET IN THE WEST END OF A CURB
 INLET ALONG THE NORTH CURB OF
 HERITAGE PARKWAY WEST OF JUSTICE LANE



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AZIMUTH MARK
CITY OF MANSFIELD
BENCHMARK MONUMENT
No. 114

CURB INLET

JUSTICE LANE
(CURB AND GUTTER)

HERITAGE PARKWAY
(CURB AND GUTTER)

GRID AZIMUTH $266^{\circ}16'43''$ GRID DISTANCE 947.95'

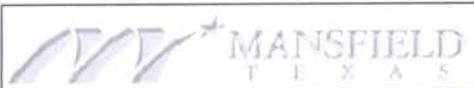
MANSFIELD
MONUMENT
No. 14-07

COMMERCE DRIVE
(CURB AND GUTTER)



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GEODETIC CONTROL DATA SHEET

STATION NAME: MANSFIELD MONUMENT No. 15-07		DATE: OCTOBER 2007
MONUMENT TYPE: CONCRETE MONUMENT W/ 3" BRASS DISK		
CITY: MANSFIELD	COUNTY: TARRANT	STATE: TEXAS
SURVEYOR/ENGINEER: BRITTAIN & CRAWFORD LAND SURVEYING		
PROJECT NAME: MANSFIELD GPS CONTROL DATA (2007)		

TEXAS STATE PLANE NAD 83 GRID DATA

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6887539.95214	2397309.91990
GEOID03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
607.30'		0°45'32.673329"	0.9999099988

GEODETIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°33'16.467511"	NORTH
LONGITUDE	97°06'29.546529"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "

GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 57°51'49" GRID BEARING: N 57°51'49"E
GRID AZIMUTH AND DISTANCE TO REFERENCE MARK:	AZIMUTH: DISTANCE: 1511.92' FEET

STATION DESCRIPTION:

CONCRETE MONUMENT WITH 3" BRASS DISC MARKED
 "GPS CONTROL MONUMENT CITY OF MANSFIELD TEXAS"
 MANSFIELD MONUMENT No. 15-07

STATION LOCATION:

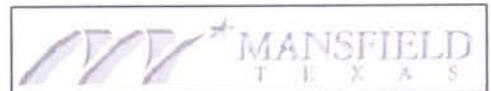
LOCATED IN THE CENTER MEDIAN OF HERITAGE PARKWAY AT
 THE INTERSECTION OF THE EXIT/ENTRANCE ROAD OF US
 HIGHWAY 287, 20' EAST OF THE NOSE OF THE MEDIAN

AZIMUTH MARK DESCRIPTION:

CITY OF MANSFIELD BENCHMARK MONUMENT
 # 47 SET IN THE WEST END OF A CURB
 INLET ALONG THE NORTH CURB OF
 HERITAGE PARKWAY EAST OF MITCHELL ROAD

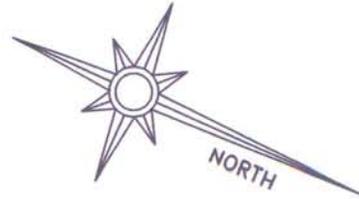


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U.S. HIGHWAY 287
(ASPHALT PAVEMENT)

BRIDGE



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U.S. HIGHWAY 287
EXIT/ENTRANCE ROAD
(ASPHALT PAVEMENT)

MANSFIELD
MONUMENT
No. 15-07

HERITAGE PARKWAY
(CURB AND GUTTER)

MITCHELL ROAD
(ASPHALT PAVEMENT)

GRID AZIMUTH 57°51'49"
GRID DISTANCE 1511.92'

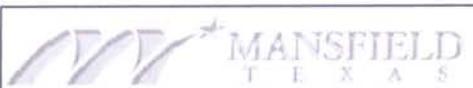
AZIMUTH MARK
CITY OF MANSFIELD
BENCHMARK MONUMENT
No. 47

CURB INLET



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GEODETIC CONTROL DATA SHEET

STATION NAME: MANSFIELD MONUMENT No. 16-07		DATE: OCTOBER 2007
MONUMENT TYPE: CONCRETE MONUMENT W/ 3" BRASS DISK		
CITY: MANSFIELD	COUNTY: TARRANT	STATE: TEXAS
SURVEYOR/ENGINEER: BRITTAIN & CRAWFORD LAND SURVEYING		
PROJECT NAME: MANSFIELD GPS CONTROL DATA (2007)		

TEXAS STATE PLANE NAD 83 GRID DATA

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6886591.66911	2392182.47362
GEOID03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
618.52'		0°44'59.922354"	0.9999103635

GEODETIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°33'07.752715"	NORTH
LONGITUDE	97°07'29.596605"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "		
GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 65°53'02" GRID BEARING: N 65°53'02"E	
GRID AZIMUTH AND DISTANCE TO REFERENCE MARK:	AZIMUTH:	DISTANCE: 1326.35' FEET

STATION DESCRIPTION:

CONCRETE MONUMENT WITH 3" BRASS DISC MARKED "GPS CONTROL MONUMENT CITY OF MANSFIELD TEXAS" MANSFIELD MONUMENT No. 16-07"

STATION LOCATION:

LOCATED IN THE CENTER MEDIAN OF HERITAGE PARKWAY APPROXIMATELY 1300' WEST OF WISTERIA STREET, 50' WEST OF THE WEST NOSE OF MEDIAN OPENING.

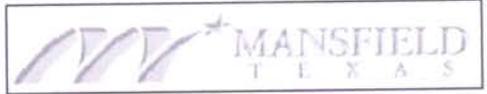
AZIMUTH MARK DESCRIPTION:

CITY OF MANSFIELD BENCHMARK MONUMENT # 113 SET IN THE NORTH END OF A CURB INLET ALONG THE EAST CURB OF WISTERIA STREET NORTH OF HERITAGE PARKWAY



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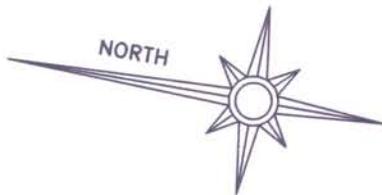
AZIMUTH MARK
CITY OF MANSFIELD
BENCHMARK MONUMENT
No. 113

WISTERIA STREET
(CURB AND GUTTER)

GRID DISTANCE 1326.35'
GRID AZIMUTH 65°53'01"

HERITAGE PARKWAY
(CURB AND GUTTER)

CONCRETE DRIVEWAY



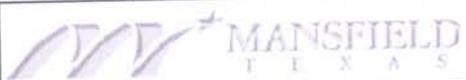
DRAWING NOT TO SCALE



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MANSFIELD
MONUMENT
No. 16-07



GEODETTIC CONTROL DATA SHEET

STATION NAME: MANSFIELD MONUMENT No. 17-07	DATE: OCTOBER 2007
MONUMENT TYPE: CONCRETE MONUMENT W/ 3" BRASS DISK	
CITY: MANSFIELD	COUNTY: TARRANT
STATE: TEXAS	
SURVEYOR/ENGINEER: BRITAIN & CRAWFORD LAND SURVEYING	
PROJECT NAME: MANSFIELD GPS CONTROL DATA (2007)	

TEXAS STATE PLANE NAD 83 GRID DATA

ZONE:	CODE:	NORTHING (Y)	EASTING (X)
TEXAS NORTH CENTRAL	4202	6881643.46765	2388861.34103
GEOID03 NAVD88 (U.S. FEET)		CONVERGENCE ANGLE	SCALE FACTOR
670.14'		0°44'38.351353"	0.999912426308

GEODETTIC DATA NAD_83(CORS96)(EPOCH:2002.0000)

LATITUDE	32°32'19.220215"	NORTH
LONGITUDE	97°08'09.147800"	WEST

REFERENCE AZIMUTH MARK

NAD 83 GRID AZIMUTH " ZERO NORTH "

GRID AZIMUTH FROM STATION TO AZIMUTH MARK:	AZIMUTH: 191°54'20" GRID BEARING: S 11°54'20"W
GRID AZIMUTH AND DISTANCE TO REFERENCE MARK:	AZIMUTH: DISTANCE: 376.34' FEET

STATION DESCRIPTION:

CONCRETE MONUMENT WITH 3" BRASS DISC MARKED
 "GPS CONTROL MONUMENT CITY OF MANSFIELD TEXAS"
 MANSFIELD MONUMENT No. 17-07"

STATION LOCATION:

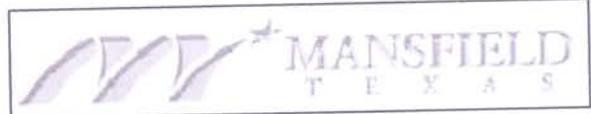
LOCATED IN THE CENTER MEDIAN OF FM 917 APPROXIMATELY
 450' NORTH OF SECOND AVENUE

AZIMUTH MARK DESCRIPTION:

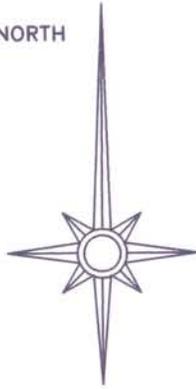
"X" CUT ON TOP OF SOUTH END OF A
 CURB INLET ON THE WEST CURB OF FM
 917 AT THE NORTHWEST CORNER OF FM
 917 AND SECOND AVENUE



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NORTH



DRAWING NOT TO SCALE

MANSFIELD
MONUMENT
No. 17-07

GRID AZIMUTH 101°54'20"
GRID DISTANCE 376.34'

AZIMUTH MARK
"X" CUT ON TOP OF CURB
INLET

SECOND AVENUE
(CURB AND GUTTER)

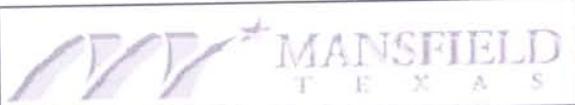
F.M. 917

(CURB AND GUTTER)

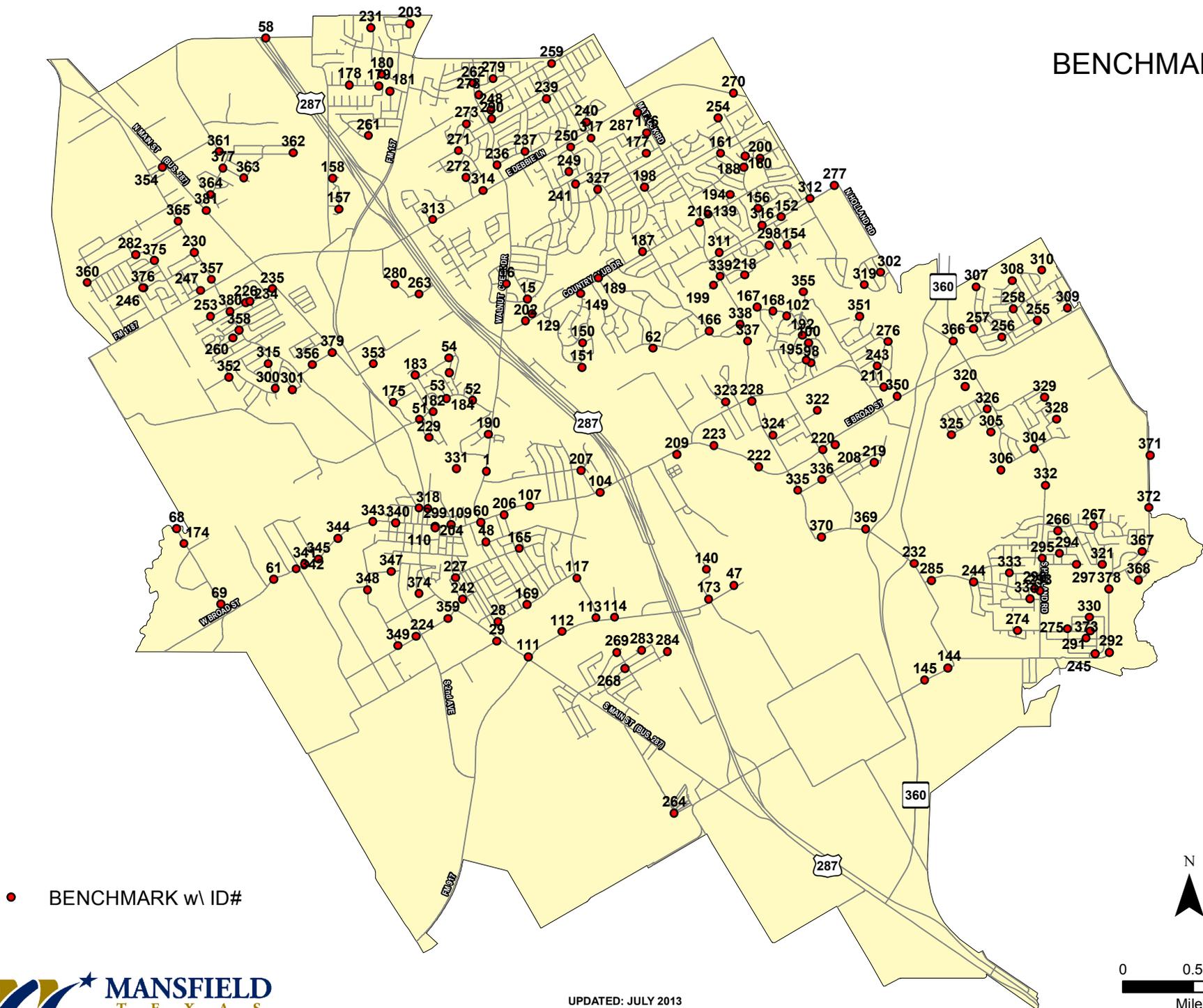


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BENCHMARKS



Benchmark List - City of Mansfield

BM #	Elev	Location
1	580.51	Box cut in concrete at northeast corner of headwall at bridge on Walnut Creek Dr over Walnut Creek.
15	596.54	Box cut in top of west curb of Chestnut Rd at the northwest corner of the intersection of Clover Hill road at the north curb return.
16	598.77	Box cut in top of west curb of Walnut Creek Dr at the northwest corner of the intersection of Johnsbury Lane at the north curb return.
28	655.13	Box cut in top of north curb of Fort Worth St approximately 100' east of Mansfield-Price Rd.
29	642.36	Box cut in top of south curb of Sentry Dr approximately 100' west of S Main St.
47	591.43	City of Mansfield monument in the northwest corner of a double 10' recessed curb inlet on the north curb of Heritage Pkwy 50' west of main drive to the entrance parking lot of Pier 1 Imports and 0.2 miles east of Mitchell Rd.
48	630.74	City of Mansfield monument in the northwest corner of a double 10' recessed curb inlet at the northwest corner of the intersection of E Dallas St and Walnut Creek Dr.
51	608.90	City of Mansfield monument in the southwest corner of a double 8' recessed curb inlet on the south side of Pleasant Ridge Dr over a large drainage ditch approximately 700' east of the intersection of Business Hwy 287 (Main St.).
52	607.46	City of Mansfield monument at the center back of a 10' recessed curb inlet, 90' northwest of the northwest drive of the Methodist Church and approximately 900' northwest of the intersection of Walnut Creek Dr.
53	609.56	City of Mansfield monument at the northeast corner of a 5' curb inlet on the east side of Canary St approximately 200' north of the intersection of Blue Jay St at 914 Canary St.
54	611.87	City of Mansfield monument at the northeast corner of a 5' curb inlet on the north side of Mockingbird Ln approximately 50' west of Canary St at 527 Mockingbird Ln.
58	687.16	Box cut in the center of nose of concrete curb island 72' south of centerline of Turner-Warnell Rd and 20' west of centerline of east service road of US 287 at bridge turnaround.
60	621.78	City of Mansfield monument at the northeast corner of a 10' curb inlet at the southeast corner intersection of E Broad St and S Walnut Creek Dr on the east curblineline of S Walnut Creek Dr.
61	635.50	City of Mansfield monument in the center of a concrete headwall on the south side of W Broad St approximately 320' east of the intersection of Morgan Rd.
62	565.86	City of Mansfield monument in the west end of a concrete headwall 130' south of Danbury Dr and 200' east of the intersection of Danbury Dr with Muirfield Dr.

"900" series benchmarks indicate Geodetic Control Points.

Benchmark List - City of Mansfield

BM #	Elev	Location
68	597.96	TBM plate 1939-1940 on WPA plate on east side of concrete guardrail on northwest end of Retta Mansfield Rd bridge over Walnut Creek.
69	628.29	Brass cap set in top of concrete guardrail on southwest end on Retta Mansfield Rd bridge over small tributary, 400' from intersection of Broad St and Retta Mansfield Rd (Tarrant County Monument).
98	580.47	Box cut in curb on the nose of median at Waterwood Ct on the west side of Arbors Dr.
100	564.27	Box cut at the center of an inlet at the back of curb, west side of Arbors Dr, 30' south of Wild Ivy Trl.
102	562.30	City of Mansfield monument in the southwest corner of a 10' inlet, 10' west of Arbor Creek Trl. At 2609 Woodbridge Trl.
104	603.48	Box cut in back of curb 85' south of centerline of E Broad St at the northwest corner of parking lot of 1560 E Broad St.
107	608.73	Box cut in northeast corner of concrete porch at Dairy Queen, 75' south of E Broad St. At 1014 E Broad St.
109	608.23	Box cut in PI of concrete sidewalk 50' east of Sycamore St, 75' north of E Broad St, 18' southwest of southwest corner of Central Baptist Church.
110	596.31	Box cut in northwest porch at 208 E Broad St office building.
111	630.83	City of Mansfield monument in the northwest corner of a curb inlet on Heritage Pkwy at the northeast corner of the intersection of S Main St.
112	617.90	City of Mansfield monument in the northwest corner of a curb inlet on the north side of Heritage Pkwy at a box culvert crossing, and 2000' east of the intersection of S Main St.
113	613.82	City of Mansfield monument in the northeast corner of a curb inlet on Wisteria St at the northeast corner of the intersection of Heritage Pkwy.
114	609.75	City of Mansfield monument in the northwest corner of a curb inlet on Heritage Pkwy at the northwest corner of the intersection of Justice Ln.
117	628.18	City of Mansfield monument in the northwest corner of a curb inlet on the west side of Wisteria St, 500' south of Fort Worth St.
129	589.81	Box cut in west curblin of Old Dominion Place, 150' north of Country Club Dr. Across from 1102 Old Dominion Place, by power pole guy-wire.
139	594.94	Box cut in the center of first recessed inlet east of Matlock Rd on north side of Country Club Dr 400' east of Matlock Rd.
140	602.22	Box cut in center of west headwall for culvert under Mitchell Rd, 430' south of railroad crossing.
144	573.46	City of Mansfield monument in northeast side of first bridge west of Britton Rd on Lone Star Rd.
145	571.65	City of Mansfield monument, north side, 8' west of east end of second bridge west of Britton Rd on Lone Star Rd.
149	609.83	Box cut in north end of nose of second median on Clubhouse Dr, 100' south of Country Club Dr.

"900" series benchmarks indicate Geodetic Control Points.

Benchmark List - City of Mansfield

BM #	Elev	Location
150	578.59	City of Mansfield monument in the northeast corner of a 10' inlet at northeast corner of Clubhouse Dr and Westbury Ln.
151	566.06	City of Mansfield monument in the east end of headwall for 72 inch R.C.P. 200' south of intersection of Clubhouse Dr and Pebble Beach Dr.
152	598.88	Box cut in south curbline of Elliott Ave at curb return at southwest corner of intersection of Elliott Ave and Nichols Trl.
154	579.20	City of Mansfield monument in northeast corner of a 10' curb inlet, east side of Enchanted Ln and 8' south of centerline of Bridle Path Rd.
156	578.39	Box cut in curb at return at southeast corner of intersection of Bowman Ave and Welch Place near fire hydrant.
157	670.25	City of Mansfield monument in northeast corner of 20' inlet, east curbline of Callender Rd, 100' south of the centerline of Summer Trl, south of 1818 Callender Hill Rd.
158	661.33	City of Mansfield monument in northeast corner of 10' inlet, east curbline of Calendar Hill Rd, 40' south of centerline of Mistywood Ct, across from 2009 Callender Hill Rd.
160	597.11	City of Mansfield monument in the southwest corner of 10' inlet at southwest corner of intersection of Perry Dr and Logan Dr, south side Perry Dr.
161	625.74	Box cut in curb on curb return north side of Perry Dr at northeast corner intersection of Joshua Trl.
165	635.44	City of Mansfield monument in the west end of 20' curb inlet on north curbline of Stell Ave and 150' west of Live Oak St.
166	571.78	City of Mansfield monument in the northeast corner of a 10' curb inlet east curb of Glen Abby Dr at intersection with Danbury Dr.
167	561.44	City of Mansfield monument in 5' curb inlet, north curb of a cul-de-sac at the end of Valleywood Trl, 1613 Valleywood Trl
168	557.08	Box cut in curb at center of a 10' curb inlet, west side of Arbor Creek Trl, 100' east of Toscana Ct.
169	642.72	Box cut in centerline of 10' inlet on the north side of Fort Worth St, 60' west of Walnut Creek Dr.
173	604.34	City of Mansfield monument in the northwest corner of 15' inlet on the west side of Mitchell Rd, 90' north of centerline of Heritage Pkwy.
174	593.85	City of Mansfield monument in the south end of headwall, west side of Retta Rd, 500' south of Walnut Creek.
175	615.75	City of Mansfield monument in the northeast corner of a 5' inlet on the north curbline of Yosemite Dr at the northeast corner of the intersection of Yellowstone Dr at 902 Yellowstone Dr.
176	655.13	Box cut in the curb at the northeast corner of a 5' inlet on the south side of Farmington Dr, 70' east of the centerline of first cul-de-sac west of Matlock Rd.
177	640.90	City of Mansfield monument in the northwest corner of a 10' inlet on the north side of Brittany Ln, 50' west of the centerline of Brittany Ct.

"900" series benchmarks indicate Geodetic Control Points.

Benchmark List - City of Mansfield

BM #	Elev	Location
178	659.99	Box cut in top of curb at curb return on the north side of Poe Ln at the northeast corner of the intersection of Ricky Ct and Poe Ln.
179	646.14	Box cut in top of curb, centerline of 10' inlet on the south curblineline of Poe Ln 150' west of Suffolk Dr.
180	650.93	City of Mansfield monument in the back northeast corner of a 10' inlet on the east curblineline of Essex Dr 50' north of Norfolk Dr.
181	649.33	City of Mansfield monument set in northwest corner of a 10' inlet on the west side of Lockshire Dr, 170' south of Rosebrook Dr. At 2409 Lockshire Dr.
182	617.55	Box cut in top of curb at center of inlet on the south side of Pleasant Ridge Dr at the projection of Meadowlark Dr.
183	635.06	Box cut in top of curb on the east side of Meadowlark Dr, 140' north of Mockingbird Ln, between 917 and 919 Meadowlark Dr.
184	618.63	Box cut in top of curb on the south side of Pleasant Ridge Dr at the projection of the centerline of Quail Terrace.
187	632.03	City of Mansfield monument in the northeast corner of a 10' inlet on the east side of Concord Dr 50' north of Country Club Dr.
188	600.03	City of Mansfield monument in the southwest corner of a 10' inlet on the west side of Logan Dr 25' north of Dobree Ct.
189	621.08	City of Mansfield monument in southeast corner of 15' inlet on the north side of Country Club Dr, 30' east of the intersection of Muirfield Dr and Country Club Dr.
190	599.41	City of Mansfield monument in southeast corner of 20' inlet, 50' west of curb line of Walnut Creek Dr. At 1 Circle Park Ct.
192	564.90	City of Mansfield monument in top of a 10' curb inlet on the south curblineline of Wild Ivy Trl. At 2620 Wild Ivy Trl.
194	585.89	City of Mansfield monument in 10' inlet on the west curblineline of Zachary Ct, 50' north of the intersection of Zachary Ct and Eric Ln.
195	575.19	City of Mansfield monument on the northwest corner of an inlet located at the northwest corner of intersection of Waterwood Dr and Brook Arbor Dr. At 1300 Waterwood Dr.
198	640.55	City of Mansfield monument on the northwest corner of a 10' inlet on the west curblineline of High Crest Dr, 80' south of the centerline of Windcastle Dr.
199	580.97	City of Mansfield monument on top of an inlet on south side Red Wing Ct, 200' west of Matlock. At 1010 Red Wing Ct.
200	610.89	City of Mansfield monument on the southeast corner of a 10' inlet on the east curblineline of Hillary Trl, 50' south of the centerline of Dobree St.
202	586.88	City of Mansfield monument on the northeast corner of headwall on the north side of Country Club Dr for culvert over Hogpen Branch Creek. At 1091 Country Club Dr.
203	655.56	City of Mansfield monument on the south end of headwall on the east side of Heathcliff Dr at the intersection with Stanbury St.

"900" series benchmarks indicate Geodetic Control Points.

Benchmark List - City of Mansfield

BM #	Elev	Location
204	594.18	City of Mansfield monument on the southeast corner of a 10' recessed inlet on the south curbline of E Broad St, 180' west of the centerline of Pond St.
206	616.23	City of Mansfield monument on the southeast corner of a 10' recessed inlet at the southeast corner of the intersection of E Broad St and Hillcrest, on the east curbline of Hillcrest.
207	586.43	Box cut in top of curb at curb return southeast corner of Magnolia St and Shady Valley Dr.
208	612.52	Box cut in top of curb at most northerly drive entrance of Mary Orr Intermediate School east side of Miller Rd 10' east of fire hydrant.
209	622.92	Box cut on south nose of median island in drive for First Baptist Church of Mansfield, south side of E Broad St.
211	583.55	Box cut west end of 24' headwall south side of Cannon Dr, 90' east of northeast corner of Calvary Cemetery.
216	598.23	City of Mansfield monument on the southwest corner of a 17' curb inlet at the southwest corner of Country Club Dr and Matlock Rd.
218	579.77	City of Mansfield monument on the southwest corner of an 11' inlet on the south curbline of Castle View Rd, at the southwest corner of Westchester Dr and Castle View Rd. At 2114 Castle View Rd.
219	592.77	City of Mansfield monument on the southwest corner of an 11' inlet on the south curbline of Dove Valley Ln, 200' west of Cannon Dr South. At 3214 Dove Valley Ln.
220	607.95	City of Mansfield monument on the southwest corner of an 11' inlet on the south curbline of E Broad St 90' east of Miller Rd.
222	614.99	City of Mansfield monument on the northeast corner of a 21' recessed inlet on the north curb line of E Broad St, 1200' west of Matlock Rd.
223	604.37	Box cut on back of curb, center of a 10' recessed inlet on the north curbline of E Broad St, 900' east of Cannon Dr, west of Matlock Rd.
224	666.08	City of Mansfield monument on the northwest corner of a 10' inlet on the north side Airport Dr 150' west of Second Ave.
226	664.78	City of Mansfield monument on the east end of a 10' inlet on the north side of Hidden Glade Dr 120' east of Hidden Oak Dr at the end of curbline.
227	629.16	City of Mansfield monument on the southwest corner of a 10' inlet on the west side of Hollyberry Dr, 45' south of Stell Ave. At 500 Hollyberry Dr.
228	586.89	City of Mansfield monument on the northwest corner of a 20' recessed inlet on the west curbline of Matlock Rd, 150' south of Cannon Dr.
229	591.56	City of Mansfield monument at the southwest corner of a 12' curb inlet, west side of Biscayne Dr across from intersection of Parkhill Dr and Biscayne Dr.
230	702.60	Box cut on top of curb at corner of a 16' curb inlet, southside of Merrit Dr, 51' west of the intersection of Gertie Barrett Rd & Merritt Dr.
231	664.33	City of Mansfield monument at the northwest corner of a 5' curb inlet, 36' south of concrete channel. At 3315 Oak Run Ln.

"900" series benchmarks indicate Geodetic Control Points.

Benchmark List - City of Mansfield

BM #	Elev	Location
232	560.03	City of Mansfield monument at the southeast corner of a 11' recessed inlet east side of Heritage Pkwy, 300' south of the intersection of SH 360 and Heritage Pkwy South.
234	660.20	City of Mansfield monument at the southeast corner of a 10' curb inlet on the south side of Hidden Glade Dr, 50' east of the intersection of Hidden Glade Dr and Fern Dr. At 1410 Fern Dr.
235	661.74	City of Mansfield monument at the northwest corner of a 5' inlet south side of Fern Dr 126' west of US 287.
236	633.21	City of Mansfield monument in the southwest corner of a 15' curb inlet on the south side of Coal Creek Dr, and at the southeast corner of the intersection with Walnut Creek Dr.
237	648.42	City of Mansfield monument in the northeast corner of a 10' curb inlet on the north side of Coal Creek Dr, at the northeast corner of the intersection with Rocky Creek Dr.
239	658.09	City of Mansfield monument in the southeast corner of a 10' curb inlet on the east side of St. Charles Dr, at the southeast corner of the intersection with St. Eric Dr.
240	667.00	City of Mansfield monument in the southeast corner of a 10' curb inlet on the east side of Claremont Dr, and 300' north of the centerline of Debbie Ln.
241	629.58	City of Mansfield monument in 10' curb inlet on the west side of Meadow Crest Ln at the intersection of Brittany Ln.
242	643.42	Box cut on the northeast corner of curb inlet on the south curb of Berryhill Ln, 85' west of the intersection of Hollyberry Dr. At 538 Berryhill Ln.
243	599.46	City of Mansfield monument in the southeast corner of a 10' curb inlet on the east curblin of Greenhill Trl, 42' north of Lake Creek Trl.
244	565.20	City of Mansfield monument in curb inlet on the south side of Mansfield National Pkwy, 80 feet east of Calloway Dr.
245	551.40	City of Mansfield monument in curb inlet on the south side of Blue Bird Ln, 50' west of Meadowbrook Ln.
246	711.70	City of Mansfield monument at the northwest corner of an inlet at Bertram Dr and Barbados Dr. At 1910 Bertram Dr.
247	704.94	City of Mansfield monument in the north end of curb inlet on the east side of Tonya May Ln, at the intersection of FM 1187. At 1700 Tonya May Ln.
248	645.77	Box cut in top of curb at the center of a 10' curb inlet on the west side of Manchester Dr at the northwest corner of the intersection of Manchester Dr and Dorchester Ln.
249	638.63	City of Mansfield monument in northwest corner of a 10' curb inlet on the north side of Lake Meadow Trl at the intersection of Artesia Ct.
250	646.74	City of Mansfield monument in northeast corner of a 10' curb inlet on the north side of Lake Glen Trl at the northeast corner of the intersection of Lake Glen Trl and Lake Edge Blvd.

"900" series benchmarks indicate Geodetic Control Points.

Benchmark List - City of Mansfield

BM #	Elev	Location
253	677.08	City of Mansfield monument in the southeast corner of a curb inlet in the north curblines of Chateau Ln, at the intersection of St. Moritz Dr. At 1504 Chateau Ln.
254	640.11	City of Mansfield monument in the northeast corner of curb inlet on the east curb of Hearthside Ln, 125' north of the intersection of Sandstone Ct.
255	582.46	City of Mansfield monument in the northeast corner of a 10' curb inlet on the west curb of Thistle Ln, 120' south of Wildbriar Ln.
256	591.21	City of Mansfield monument in the northwest corner of a 15' curb inlet on south curb of Wildbriar Ln, 30' west of intersection of Orchid Ln. At 4108 Wildbriar Ln.
257	590.84	City of Mansfield monument in the northeast corner of a 10' curb inlet on the west curb of Westridge Dr approximately 140' south of intersection of Woodcrest Ln.
258	571.53	City of Mansfield monument in southeast corner of a 10' curb inlet on the north curb of Woodcrest Ln, 25' west of intersection of Bramble Ln.
259	645.38	City of Mansfield monument in the southeast corner of a 10' inlet on the south side of Manchester Dr, 50' east of Manchester Ct.
260	657.44	City of Mansfield monument in center of a concrete headwall, 10' south of south edge of Breezy Oaks Dr, between 1145 Breezy Oaks Dr and 1177 Breezy Oaks Dr.
261	629.08	City of Mansfield monument in the northwest corner of a 10' curb inlet on the west side of Wedgewood Dr, 560' south of Tanglewood Dr. At 1121 Wedgewood Dr.
262	672.38	City of Mansfield monument in the southwest corner of a 10' curb inlet on the west side of Walnut Creek Dr north of Misty Mesa Trl.
263	635.19	City of Mansfield monument in 10' curb inlet on south side of Home Depot Dr, 420' east of Towne Crossing Blvd.
264	635.01	City of Mansfield monument in the southwest corner of a 10' inlet at the most southwesterly corner of Flying L Ln.
266	558.88	City of Mansfield monument in the southwest corner of a 10' curb inlet on the south side of New Meadow Dr, at the intersection with Fountain Ln.
267	559.08	City of Mansfield monument in the northwest corner of a 10' curb inlet on the west side of Pinedale Dr on the south side of the intersection with Springlake Pkwy.
268	621.47	City of Mansfield monument in the northeast corner of a 10' curb inlet on the north curblines of Remington Ranch Rd, 70' west of Lariat Ln.
269	613.15	City of Mansfield monument in the southwest corner of a 10' inlet on the south side of Vinewood Dr, 40' west of Lariat Ln.
270	622.16	City of Mansfield monument in the northeast end of a headwall, on the north side of Debbie Ln, 0.75 miles east of Matlock Rd.
271	628.79	City of Mansfield monument in the northeast end of a headwall, on the east side of Goodnight Trl, 350' northwest of Bluebonnet Trl.

"900" series benchmarks indicate Geodetic Control Points.

Benchmark List - City of Mansfield

BM #	Elev	Location
272	616.57	City of Mansfield monument in the southwest corner of a 10' curb inlet at the southeast corner of Natchez Trl and Bent Trl.
273	642.07	City of Mansfield monument in the southeast corner of a 10' curb inlet on the south curb of Forestridge Dr, 40' east of the intersection of Cabotwood Trl.
274	564.33	City of Mansfield monument in the southwest corner of a 10' curb inlet on the south curblines of Eagle Dr, 100' east of Champion Way.
275	560.53	City of Mansfield monument in the east end of a 3' headwall, at the end of a flume between 4513 Fox Meadows Ln and 716 Glenview Dr, 110' north of Fox Meadows Ln. On school property.
276	547.44	City of Mansfield monument in the southeast corner of a 10' curb inlet on the east curblines of Vista Lake Circle, at the projection of the centerline of Lake Creek Trl.
277	584.89	City of Mansfield monument in the northeast corner of a 10' curb inlet on the north curblines of Ragland Rd, 150' west of the centerline of S Holland Rd.
278	662.44	City of Mansfield monument in the northwest corner of a 10' curb inlet on the west curblines of Summer Grove Ct, 500' south of Rocky Creek Dr.
279	665.99	City of Mansfield monument in the northeast corner of a 10' curb inlet on the north curblines of Rocky Creek Dr, 100' west of Bloomfield Trl.
280	637.15	City of Mansfield monument in the north end of a headwall, 1.5' above the west curb of Towne Crossing Blvd, 800' north of Home Depot Dr.
282	693.33	City of Mansfield monument in the southeast corner of a 10' curb inlet on the south curblines of Cancun Dr, 80' east of Lantern Ridge Dr.
283	609.68	City of Mansfield monument in the northeast corner of a 10' curb inlet on the south curblines of Cutting Horse Dr, 150' east of the centerline of Stage Coach Ln.
284	606.34	City of Mansfield monument in the southeast corner of a 15' curb inlet at the northeast end of Cowtown Ct.
285	574.01	City of Mansfield monument in a 10' curb inlet on the south curblines of National Pkwy, 50' west of the entry to Mansfield National Golf Course.
287	650.60	Box cut in center of an inlet on the west curb of Matlock Rd, 400' south of E Debbie Ln.
290	643.69	City of Mansfield monument in the north side of a 5' curb inlet, on the west curblines of Manchester Dr, 50' north of Dover Heights Trl.
291	555.85	City of Mansfield monument on the southeast corner of a 10' inlet 235' west of Meadowbrook Ln, in north curblines of Fox Meadow Ln.
292	549.94	City of Mansfield monument in the southwest corner of a 30' headwall, on the east side of Seeton Rd, 40' north of entry into Britton Park.
293	565.05	Box cut in the center of a headwall on the east side of S Holland Rd, 110 south of National Pkwy.

"900" series benchmarks indicate Geodetic Control Points.

Benchmark List - City of Mansfield

BM #	Elev	Location
294	561.49	City of Mansfield monument in the southwest corner of a 10' inlet, on the north side of Westcliffe Dr, 40' west of Glenwood Dr.
295	565.64	Box cut on the south curblin e of Mulligan, 73' east of S Holland Rd.
296	561.78	Box cut on top of curb at the center of a 10' inlet, on the south curblin e of National Pkwy, 185' west of S Holland Dr.
297	556.33	City of Mansfield monument in the northwest corner of a 15' inlet on the east side of Brownstone Dr, 55' south of Ridgeway Dr.
298	560.00	City of Mansfield monument in the northwest corner of a 10' curb inlet, on north side of Stonebridge Ln, 125' east of Castle Creek Dr.
299	609.60	City of Mansfield monument in the southwest corner of a 10' inlet, on the east side of Walnut St, 50' south of Oak St.
300	626.24	City of Mansfield monument in the northwest corner of an inlet on the west side of Columbia Dr, 170' south of Chesapeake Dr.
301	623.56	City of Mansfield monument in the southwest corner of an inlet, on the west side of Cumberland Trl, 35' north of Yukon Dr. At 911 Cumberland Trl.
302	546.75	City of Mansfield monument in the northwest corner of a 10' inlet on east curblin e of Rim Rock Trl, 200' from Ridge Trace Circle.
304	568.11	City of Mansfield monument in the northeast corner of a 10' curb inlet on south curblin e of Waterford Glen Dr, 510' east of Lismore Dr.
305	580.07	City of Mansfield monument in northwest corner of a 15' curb inlet on east side of cul-de-sac on Water Park Circle.
306	553.77	City of Mansfield monument in top of a Type B headwall, 200' southwest from eyebrow of Waterford Glen Dr and Waterlane Dr (behind lots at outfall).
307	551.74	City of Mansfield monument in the northeast corner of a 10' curb inlet on west curblin e of Parkside Dr, 55' south of Lake Shore Dr.
308	552.73	City of Mansfield monument in the southeast corner of a 10' curb inlet on the north curblin e of Old Grove Dr, 70' west of Lennox Way.
309	576.96	City of Mansfield monument in the northeast corner of a 10' curb inlet on the south curblin e of Chandi Ct, 40' west of Bankston Ln.
310	552.18	City of Mansfield monument in a Type B headwall on a 48" RCP in drainage easement along backside of 4423 Don Dr.
311	596.71	City of Mansfield monument in the southeast corner of a 15' curb inlet on the north curblin e of Ragland Rd, 840' west of Kingsley Dr.
312	603.06	City of Mansfield monument in the northwest corner of a 10' curb inlet on the east curblin e of Hillary Trl, 35' north of Ragland Rd.
313	628.01	City of Mansfield monument in the southwest corner of a 20' recessed inlet located 100' east of Harvest Way in the westbound lane of E Debbie Ln.
314	616.82	City of Mansfield monument in the southeast corner of a 15' recessed inlet located 440' east of Bent Trl in the westbound lane of E Debbie Ln.

"900" series benchmarks indicate Geodetic Control Points.

Benchmark List - City of Mansfield

BM #	Elev	Location
315	632.25	City of Mansfield monument in the northeast corner of a 10' curb inlet located on the south curblines of Wabash Trl. At 1011 Wabash Trl.
316	568.16	City of Mansfield monument in the southeast corner of a 20' curb inlet on west curblines of Welch Place, 120' north of Ragland Rd.
317	658.46	City of Mansfield monument in the southeast corner of a 10' curb inlet on the east curblines of Fairfax Dr., 150' north of Cheyenne Trl.
318	601.22	City of Mansfield monument in the northwest corner of a 10' curb inlet in the east curblines of Smith St, 45' south of E Oak St. At 118 Smith St.
319	550.74	City of Mansfield monument in the southeast corner of a 10' curb inlet in the west curblines of Ridge Trace Cir, 770' north of Clear Summit Ln.
320	600.05	City of Mansfield monument in the northeast corner of a 10' curb inlet in the parking lot of the MISD Stadium/Natatorium 300' west of Holland Rd and 850' south of E Broad St.
321	554.76	City of Mansfield monument in the northeast corner of a 10' curb inlet in the south curblines of Fitzgerald Dr, 45' west of Autumnwood Dr.
322	594.83	City of Mansfield monument in the southeast corner of a 10' curb inlet on the north curblines of Ursula Ct, in cul-de-sac.
323	581.69	City of Mansfield monument in the southeast corner of a 10' curb inlet on the east curblines of Amanda Dr. At 904 Amanda Dr.
324	600.94	City of Mansfield monument in the northwest corner of a 10' curb inlet on the west curblines of Hammond Dr. At 607 Hammond Dr.
325	583.86	City of Mansfield monument in the southwest corner of a 10' curb inlet on the south curblines of Travis Blvd. At 3802 Travis Blvd.
326	593.11	City of Mansfield monument in the southwest corner of a 10' curb inlet on the south curblines of Travis Blvd. At 4016 Travis Blvd.
327	631.06	City of Mansfield monument in the center of a 20' curb inlet on the east curblines of Fairfax Dr. At 1310 Fairfax Dr.
328	564.75	City of Mansfield monument in the southwest corner of a 15' curb inlet in the cul-de-sac of Meadow Breeze Ct.
329	571.81	City of Mansfield monument in the northwest corner of a 15' curb inlet on the east curblines of Tophill Ln, at the intersection of Vista Glen Ct.
330	556.29	City of Mansfield monument in the center of a 10' curb inlet on the south curblines of Oakview Dr, 40' west of Old Mill Ln.
331	569.27	City of Mansfield monument in the center of a double barrel 7' x 7' box culvert on concrete path over Walnut Creek at northwest corner of Rose Park. (Part of the Linear Park Project - access through Rose Park).
332	537.16	City of Mansfield monument in the top of a Type B Headwall at the outfall of a 54" pipe, 100' northeast of the Holland Rd bridge over Low Branch Creek.
333	566.22	City of Mansfield monument in the southeast corner of a 10' curb inlet on the north curblines of Jasmine Ln, 65 ft east of Garden Path Ln.

"900" series benchmarks indicate Geodetic Control Points.

Benchmark List - City of Mansfield

BM #	Elev	Location
334	562.85	City of Mansfield monument in the southeast corner of a 10' curb inlet on the north curbline of Garden Path Ln, 45' east of Bellflower Ct.
335	597.07	City of Mansfield monument in the northeast corner of a 20' curb inlet on the west curbline of Matlock Rd, 100' north of Hospital Dr.
336	602.33	City of Mansfield monument in the northeast corner of a 20' curb inlet on the south curbline of Hospital Dr, 500' west of N Miller Rd.
337	563.18	City of Mansfield monument in the southwest corner of a 10' curb inlet on the east curbline of Matlock Rd, 500' north of the bridge over Walnut Creek.
338	560.64	City of Mansfield monument in the northwest corner of a 10' curb inlet on the south curbline of Cannon Gate Dr, 100' west of Matlock Rd.
339	587.98	City of Mansfield monument in the southwest corner of a 10' curb inlet on the east curbline of Matlock Rd, 350' south of Kings Mill Dr.
340	619.21	City of Mansfield monument at the northeast corner of a 20' recessed curb inlet on the south side of W Broad St and 65' west of 3rd Ave.
341	651.50	City of Mansfield monument at the southwest corner of a 15' recessed curb inlet on the north side of W Broad St and 265' east of Billingslea St.
342	654.19	City of Mansfield monument at the northwest corner of a 10' recessed curb inlet on the south side of W Broad St and 85' west of 6th Ave.
343	638.00	Box cut on the top of the curb of the west nose of median opening opposite address of 604 W Broad St, 2300' west of Main St.
344	598.23	Box cut on the west end of a concrete headwall on the south side of W Broad St, 3500' west of Main St.
345	645.65	Box cut on the north side of the sidewalk at the northeast corner of the parking lot for McClendon Park.
347	659.61	City of Mansfield monument in the northwest corner of an inlet on the south curbline of Burl Ray St, 200' west of S 2nd Ave.
348	653.64	City of Mansfield monument in the northwest corner of a 20' inlet on the east curbline of S 4th Ave. At 609 S 4th Ave.
349	679.67	City of Mansfield monument in the southeast corner of a 20' inlet on the west curbline of S 4th Ave, 80' north of Airport Dr.
350	603.95	City of Mansfield monument in the northeast corner of a 20' curb inlet on the north curbline of E Broad St, 90' west of Cannon Dr. At 3241 E Broad St.
351	548.45	City of Mansfield monument in the center of a 20' curb inlet on the west curbline of Long and Winding Rd, 50' north of Sgt. Pepper Ct.
352	656.00	City of Mansfield monument in the southwest corner of a 10' curb inlet, on the south curbline of Tate Ct, 50' west of Platte Dr.
353	634.70	City of Mansfield monument in the south side of a 6' curb inlet, on the south curbline of Mouser Way, 565' east of N Main St.
354	699.81	City of Mansfield monument in the west side of a 10' curb inlet, on the north curbline of Nelson Wyatt Rd, 99' west of N Main St.

"900" series benchmarks indicate Geodetic Control Points.

Benchmark List - City of Mansfield

BM #	Elev	Location
355	556.70	City of Mansfield monument in the northeast corner of a 10' curb inlet on the north curblines of Piccadilly Ct, in cul-de-sac. At 1636 Piccadilly Ct.
356	644.16	City of Mansfield monument in the west side of a 10' curb inlet, on the south curblines of Legacy Way, 600' east of Cardinal Rd.
357	702.81	City of Mansfield monument in the north side of a 15' curb inlet, on the west curblines of Gertie Barrett Rd, 255' north of FM 1187.
358	668.21	City of Mansfield monument in the southwest corner of a 10' curb inlet, on the west curblines of Cardinal Rd, 75' south of Stone Creek Dr.
359	636.84	City of Mansfield monument in the west corner of a 10' curb inlet on the south curblines of Airport Dr, 455' west of S Main St.
360	694.94	City of Mansfield monument in the north side of a 10' curb inlet, on the north curblines of Cancun Dr, 50' west of Abaco Dr.
361	679.97	City of Mansfield monument in the south side of a 10' curb inlet, on the south curblines of Killian Dr, across from 1306 Killian Dr.
362	642.29	City of Mansfield monument in the east side of a 10' curb inlet, on the east curblines of Killian Dr. At 807 Killian Dr.
363	655.02	City of Mansfield monument in the north side of a 10' curb inlet, on the north curblines of Meriwether St. At 1100 Meriwether St.
364	659.93	City of Mansfield monument in the south side of a 10' curb inlet, on the south curblines of Wood River Pkwy. At 2400 Wood River Pkwy.
365	668.22	City of Mansfield monument in the southeast corner of a 15' curb inlet on the east curblines of Gertie Barrett Rd, 80' north of Garretson Ln.
366	552.71	City of Mansfield monument in the southeast corner of a 15' curb inlet on the west curblines of N Holland Rd, at the intersection of N SH 360.
367	552.29	City of Mansfield monument in the southeast corner of a 10' curb inlet on the north curblines of Cool River Ct, 200' north of Havenside Way.
368	548.71	City of Mansfield monument in the northwest corner of a 10' curb inlet on the south curblines of Copper Cove Cir, 175' southwest of Copper Cove Ct.
369	581.35	City of Mansfield monument in the southwest corner of a 15' curb inlet, on the north curblines of Heritage Pkwy, 600' east of N Miller Rd.
370	584.62	City of Mansfield monument in the southwest corner of a 15' curb inlet on the east curblines of Matlock Rd, 160' north of Heritage Pkwy.
371	557.23	Box cut at the northwest corner of parking lot for the Church on Rush Creek at 1355 Seeton Rd, 1000' south of intersection with N. Day Miar Rd.
372	545.39	Box cut on top of north end of a 2.5' concrete wall on the east side of Day Miar Rd bridge over Joe Pool Lake, 1000' north of Edgewater Dr.
373	554.89	Box cut on top of curb in the center of a 10' curb inlet on the north curb of Ashbury Ln, 400' west of Meadowbrook Ln.
374	643.05	City of Mansfield monument on the south end of a 30' headwall on the west side of Patterson Dr, southwest of 603 Patterson Dr.
375	697.17	Box cut on the top of curb in the center of a 10' curb inlet on the west side of Cancun Dr, 50' south of Wahoo Dr.

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Benchmark List - City of Mansfield

BM #	Elev	Location
376	711.56	Box cut on the top of curb in the center of a 5' curb inlet on the east side of Barbados Dr, 50' north of Bertram Dr.
377	680.45	Box cut on the top of curb at a return on the south curblin e of Meriwether St, 40' east of Wood River Pkwy.
378	545.39	WPA monument 35 on the south end of a 6' concrete headwall on the east side of E. Seeton Rd, 500' south of the intersection with National Pkwy.
379	656.80	Box cut on top of south curblin e of Legacy Way, 85' west of N. Main St.
380	677.06	Box cut on top of north curb of Hidden Glade Dr at a return, at the intersection with Cardinal Rd.
381	664.73	Box cut in the center of a 9' concrete headwall on the east side of N. Main St, 325' south of Wood River Pkwy.
902	576.87	LOCATED NEAR ENTRANCE TO JAMES McKNIGHT PARK ON EAST SIDE OF US HIGHWAY No. 287, NORTH OF BROAD ST, 12' NW OF THE SW CORNER OF PARKING LOT OF THE PARK AND 95' NE OF THE EAST END OF THE WOOD SIGN AT THE PARK ENTRANCE. FORT WORTH MAPSCO PAGE 124 SECTOR R.
903	663.85	LOCATED 1' WEST OF THE WEST MEDIAN NOSE AT THE INTERSECTION OF ESSEX DRIVE AND TURNER-WARNELL ROAD. FORT WORTH MAPSCO, PAGE 110 SECTOR S.
905	646.14	LOCATED 20' EAST OF THE EAST EDGE OF THE PAVEMENT OF LILLIAN ROAD, AND 60' SOUTH OF THE STOP SIGN AT THE INTERSECTION OF BROAD STREET AND LILLIAN ROAD. FORT WORTH MAPSCO, PAGE 123 SECTOR X.
909	535.19	GPS STATION IS LOCATED 300' +- WESTERLY OF RESTROOM BUILDING ON SOUTH SIDE OF MOST NORTHERLY PARKING LOT AT BRITTON PARK ON JOE POOL LAKE. SAID STATION IS WEST OF A MOBIL PIPELINE, AND 16.5' SW OF A WITNESS POST. FORT WORTH MAPSCO PAGE 126 SECTOR X & Y
910	610.90	LOCATED AT SE CORNER OF LAURA ELIZABETH CT AND LOGAN DR. THE MONUMENT IS 0.5' SOUTH OF SOUTH CURB LINE OF LAURA ELIZABETH CT, AND 1.5' WEST FROM WEST END OF A 10' CURB INLET ON SOUTH CURB LINE OF LAURA ELIZABETH CT. FORT WORTH MAPSCO PAGE 111-SECTOR W
911	707.50	LOCATED ON WEST SIDE OF MAIN ST (BUSINESS 287) AND 1/4 MILE NORTH OF MAIN STREET AND FM HIGHWAY 1187. MONUMENT IS 30' NORTH OF A GRAVEL DRIVE, AND 25' WEST OF WEST PAVEMENT EDGE OF MAIN ST (BUSINESS 287). FORT WORTH MAPSCO PAGE 123 SECTOR G.
915	683.60	LOCATED WEST SIDE OF US 287 NORTH OF TURNER-WARNELL 3' EAST OF A FENCE ALONG WEST ROW LINE (US 287) 63' SE OF A FENCE CORNER. 300' NORTH OF A MANSFIELD CITY LIMITS SIGN AND IN LINE WITH A MANSFIELD NEXT 3 EXITS SIGN BETWEEN SOUTHBOUND LANES/FRONTAGE RD.

"900" series benchmarks indicate Geodetic Control Points.

Benchmark List - City of Mansfield

BM #	Elev	Location
917	694.55	IN A GRASS AREA ON NORTH SIDE OF E. BROAD ST BTWN SMITH ST AND POND ST. 1.5' NORTH OF NORTH CURB LINE OF E. BROAD ST AND 32.' EAST OF THE WEST END OF BOX CULVERT UNDER E. BROAD ST. AND LIES BETWEEN THE NORTH CURB AND THE CONCRETE SIDEWALK. MAPSCO 124-S
918	617.10	"X" CUT IN TOP OF CONC CURB ON EDGE OF SIDEWALK AT NW CORNER OF OF WALNUT CREEK DR AND COUNTRY CLUB DR IN FRONT OF 1101 N WALNUT CREEK DR. STATION IS 6.2' SOUTH OF 90° ANGLE POINT OF SIDEWALK & 9.3' FROM WEST BACK OF CURB OF WALNUT CREEK DR. MAPSCO 124-K
919	598.18	GPS STATION IS AN ALUMINUM DISK IN THE TOP OF A 15' CURB INLET AT THE SOUTHWEST CORNER OF THE INTERSECTION OF MATLOCK ROAD AND COUNTRY CLUB DRIVE. FORT WORTH MAPSCO 125-A
920	546.46	X CUT IN THE NORTH END OF MEDIAN ISLAND AT NORTH MAIN ST (BUSINESS 287) AND FM HWY 157. SAID X IS 3.0' EAST OF THE NORTH END OF A CONCRETE WALL LOCATED WITHIN SAID MEDIAN ISLAND. FORT WORTH MAPSCO 123-M
921	634.53	ALUMINUM DISK SET IN A CONCRETE MON ON NW SIDE OF NEWT PATTERSON RD 0.6 OF A MILE SE OF FM 1187. STATION WILL BE ON THE LEFT 14' FROM THE RIGHT-OF-WAY FENCE. SEE SKETCH TO THE RIGHT. FORT WORTH MAPSCO 123-N
923	611.02	LOCATED AT THE NORTHEAST CORNER OF THE WEST ENTRANCE TO CITY HALL AT EAST BROAD STREET, 20.3' NORTH OF A MANSFIELD CITY HALL SIGN, 6.0' NORTH OF A CONCRETE RUNNER, 18.8' EAST OF AN ASPHALT DRIVEWAY, 25.6' SOUTH OF THE SOUTH CURB OF EAST BROAD STREET.
926	585.52	LOCATED AT THE CENTERLINE MEDIAN OF HERITAGE PARKWAY AT THE INTERSECTION OF SOUTH MATLOCK ROAD, 15.4' NORTH OF THE NORTH MEDIAN NOSE.
927	588.68	LOCATED AT THE MIDDLE ROAD INSIDE A LOOP OF PARK ROADS AT THE MANSFIELD SPORTS COMPLEX, 13.5' SOUTH OF THE SOUTH EDGE OF PAVEMENT, 10' SOUTH OF A STREET LIGHT.
928	571.44	LOCATED AT THE NORTHWEST CORNER DAY MIAR AND ENGLAND PARKWAY, 2.7' WEST OF THE WEST CURB OF ENGLAND PARKWAY, 11.8' NORTH OF AN ARC IN A CONCRETE SIDEWALK, 11' SOUTH OF A STREET SIGN.
930	647.84	LOCATED IN THE CENTER MEDIAN OF DEBBIE LANE AT THE INTERSECTION OF MATLOCK ROAD, 15.3' SOUTHWEST OF THE WEST MEDIAN NOSE, AND THE NORTH CORNER OF ROCK RUNNER.
931	604.50	LOCATED AT THE SOUTHWEST CORNER OF HIGHWAY 360 TWO WAY SERVICE ROAD AND DAVIS ROAD, AT THE SOUTHEAST NOSE OF AN ASPHALT COVERED CONCRETE TURN LANE ISLAND.
932	601.58	LOCATED AT THE SOUTHEAST CORNER SH 360 NORTHBOUND SERVICE ROAD AND E BROAD STREET, 157.7' NORTH OF NORTHERN MOST PARKING ENTRANCE TO MANSFIELD ISD ATHLETIC COMPLEX, 25.4' EAST OF EAST CURB TO SH 360 NORTHBOUND SERVICE ROAD, 10' WEST OF MANSFIELD ISD SIGN

"900" series benchmarks indicate Geodetic Control Points.

Benchmark List - City of Mansfield

BM #	Elev	Location
933	609.52	LOCATED IN THE CENTERLINE MEDIAN OF EAST BROAD STREET, 50' EAST OF THE WEST NOSE OF THE MEDIAN OF EAST BROAD STREET, ACROSS FROM MANSFIELD HIGH SCHOOL.
934	570.03	LOCATED AT THE WEST SIDE OF A CUL D' SAC AT THE INTERSECTION OF HOGAN ALLEY DRIVE AND EAGLE DRIVE, 4.5' WEST OF THE EAST EDGE OF A CONCRETE SIDEWALK, ALONG THE PROJECTED CENTERLINE OF EAGLE DRIVE.
935	579.95	LOCATED IN THE CENTER MEDIAN OF HERITAGE PARKWAY ON THE SOUTH SIDE OF THE INTERSECTION OF NATIONAL PARKWAY, 4' SOUTH OF THE SOUTH EDGE OF BRICK PAVERS.
936	613.66	LOCATED IN THE CENTER MEDIAN OF HERITAGE PARKWAY AT THE INTERSECTION OF COMMERCE DRIVE, 50' WEST OF THE WEST MEDIAN NOSE.
937	607.30	LOCATED IN THE CENTER MEDIAN OF HERITAGE PARKWAY AT THE INTERSECTION OF THE EXIT/ENTRANCE ROAD OF US HIGHWAY 287, 20' EAST OF THE NOSE OF THE MEDIAN.
938	618.52	LOCATED IN THE CENTER MEDIAN OF HERITAGE PARKWAY APPROXIMATELY 1300' WEST OF WISTERIA STREET, 50' WEST OF THE WEST NOSE OF MEDIAN OPENING.

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