

Metropolitan Aerial Surveys

Box 2293

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Fort Worth, Texas 76101

W. F. Gunn

Ken Smith

March 8, 1990

To Whom It May Concern:

The inclosed data sheets show the location of, the Geographic Positions, and the Texas State Coordinates NCZ based on both the 1927 and 1983 datums, of the monuments established in the 1989 mapping of the City of Benbrook by our firm.

The coordinate values for these monuments were determined by McGuiness and Reed and Associates of Fort Worth using GPS receivers, and are based on the First Order US Coast and Geodetic Survey Station "SEMINARY".

The results of this GPS work indicate an accuracy exceeding Second Order Class I was achieved.

At each monument established during this project, Solar Observations were made by the Hour Angle Method using 4 sets of observations with each set consisting of 2 direct and 2 reverse pointings on the Sun. The backsight chosen at each point occupied was the middle of the top of an existing water tank within the City. Additional rounds of directions to other water tanks were made when they were visible.

The positions of the water tanks contained in this report were determined from these Solar oriented sights and a least squares adjustment made to arrive at the coordinates of these water tanks. The calculations indicate that the Solar Observations and the GPS positions are in very close agreement in that the rays of the Solar oriented sights intersected with very small triangles of error.

The elevation of these points were determined by trig leveling using existing bench marks in the vicinity.

Registered Public Surveyor

No. 314

METROPOLITAN AERIAL SURVEYS
FORT WORTH, TEXAS

DESCRIPTION OF SURVEY MARK:

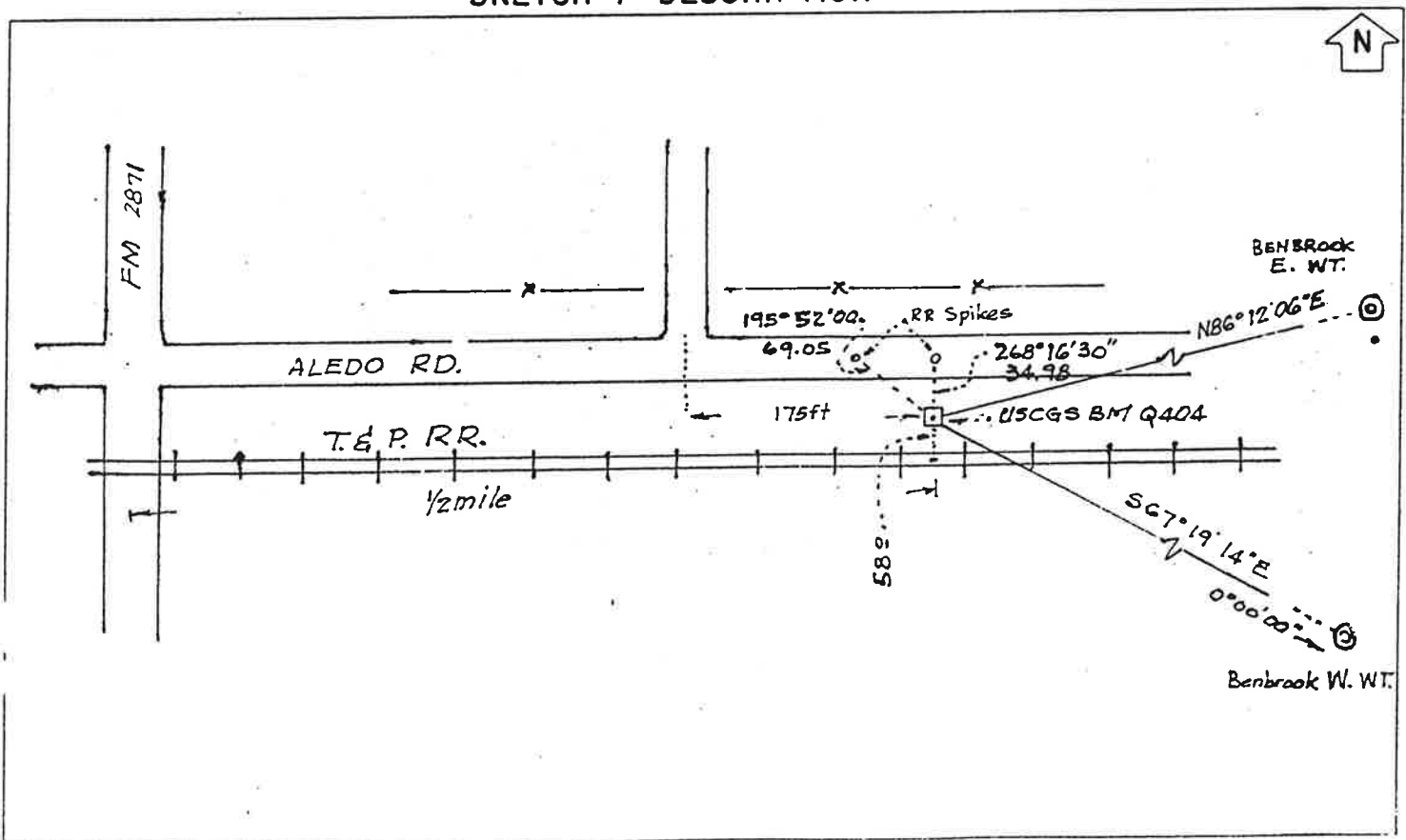
ORDER OF ACCURACY 2nd. Order Class I
COORDINATE SYSTEM TSCS ZONE NCZ
TYPE OF MARK Standard USCGS concrete
monument with brass cap
marked BM Q 404

MON. NAME USCGS BM Q-404
SET BY / DATE NGS /
STATE Texas
COUNTY Tarrant
NEAREST TOWN Benbrook
PROJECT NAME Benbrook Topo

1927 DATUM
N 367,634.891 FT.
E 2,002,948.303 FT.
ELV 772.833 FT.
LAT 32-40-37.9454 N
LONG 97-29-25.5046 W
ZIMUTH MARK Benbrook E. WT.
AZIMUTH N 86° 12' 06" E

1983 DATUM
N 2,112,528.203 METERS
E 694,651.073 METERS
ELV 235.560 METERS
LAT 32-40-38.4199 N
LONG 97-29-26.5803 W
AZIMUTH MARK Benbrook E. WT.
AZIMUTH N 85° 39' 22" E

SKETCH / DESCRIPTION



METROPOLITAN AERIAL SURVEYS
FORT WORTH, TEXAS

DESCRIPTION OF SURVEY MARK:

ORDER OF ACCURACY 2nd. Ord. Class I
COORDINATE SYSTEM TSCS ZONE NCZ
TYPE OF MARK Granite Monument with
brass cap marked
BB 1 RPS 314

MON. NAME BB-1
SET BY / DATE K. Shelton / 12-88
STATE Texas
COUNTY Tarrant
NEAREST TOWN Westland
PROJECT NAME Benbrook Topo

1927 DATUM

N 384,948.226 FT.
E 2,006,386.949 FT.
ELV 746.30 FT.
LAT 32-43-29.2698 N
LONG 97-28-45.2321 W

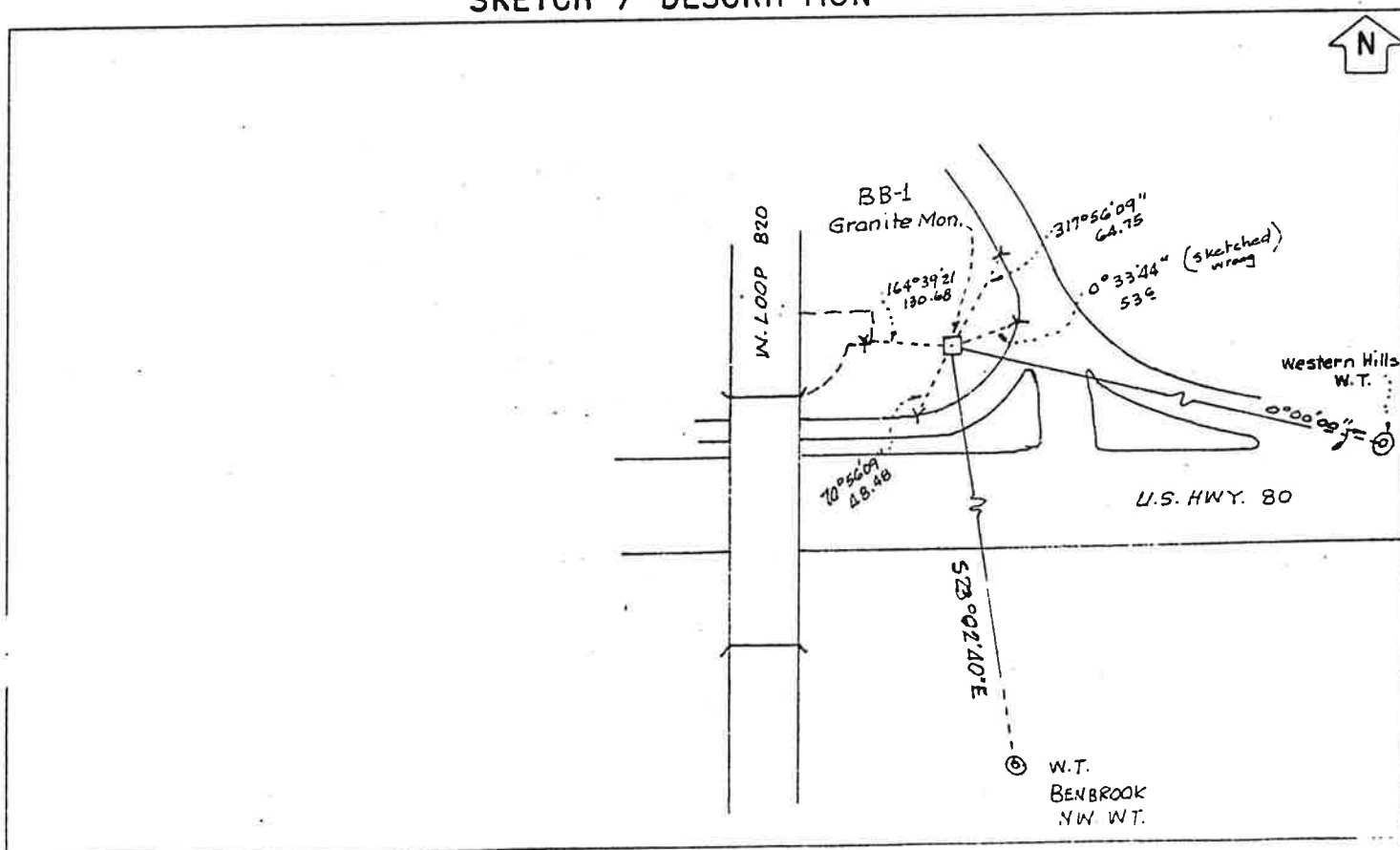
IMUTH MARK Western Hills WT.
AZIMUTH 577°10'28"E

1983 DATUM

N 2,117,815.079 METERS
E 695,648.899 METERS
ELV _____ METERS
LAT 32-43-29.7398 N
LONG 97-28-46.3073 W

AZIMUTH MARK Western Hills WT.
AZIMUTH 577°43'11"E

SKETCH / DESCRIPTION



METROPOLITAN AERIAL SURVEYS FORT WORTH, TEXAS

DESCRIPTION OF SURVEY MARK:

ORDER OF ACCURACY 2nd. Order Class I
 COORDINATE SYSTEM TSCS ZONE MCZ
 TYPE OF MARK Granite Monument with
brass cap marked
BB 2 RPS 314

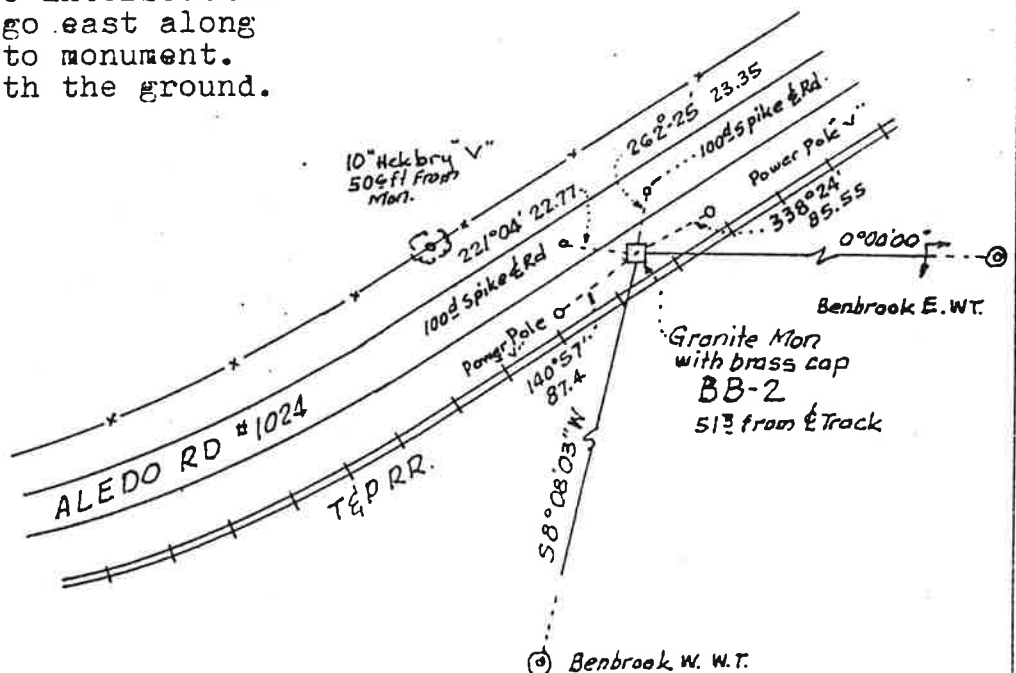
MON. NAME BB-2
 SET BY / DATE E. Shelton / 12/88
 STATE Texas
 COUNTY Tarrant
 NEAREST TOWN Benbrook
 PROJECT NAME Benbrook Topo

1927 DATUM
 N 368,372.585 FT.
 E 2,007,051.265 FT.
 ELV 734.70 FT.
 LAT 32-40-45.2392 N
 LONG 97-28-37.4977 W
 ZIMUTH MARK E. Benbrook WT (round)
 AZIMUTH S 89° 57' 31" E

1983 DATUM
 N 2,112,764.944 METERS
 E 695,899.467 METERS
 ELV _____ METERS
 LAT 32-40-45.7135 N
 LONG 97-28-38.5721
 AZIMUTH MARK E. Benbrook WT. (round)
 AZIMUTH N 89° 29' 45" E

SKETCH / DESCRIPTION

From intersection of Hwy. 377 and
 FM. Hwy 2871 go north along FM.
 Hwy 2871 1.5 miles to intersection
 with Aledo Rd. Then go east along
 Aledo Rd. 1.3 miles to monument.
 Monument is flush with the ground.



METROPOLITAN AERIAL SURVEYS
FORT WORTH, TEXAS

DESCRIPTION OF SURVEY MARK:

ORDER OF ACCURACY 2nd. Order Class I
COORDINATE SYSTEM TSCS ZONE NC
TYPE OF MARK Granite Monument with
brass cap marked
BB 3 RPS 314

MON. NAME BB-3
SET BY / DATE G. Winecke / 12-88
STATE Tx as
COUNTY Tarrant
NEAREST TOWN Benbrook
PROJECT NAME Benbrook Topo

1927 DATUM

N 360,542.382 FT.
E 2,011,951.029 FT.
ELV 697.00 FT.
LAT 32-39-27.7387 N
LONG 97-27-40.2026 W

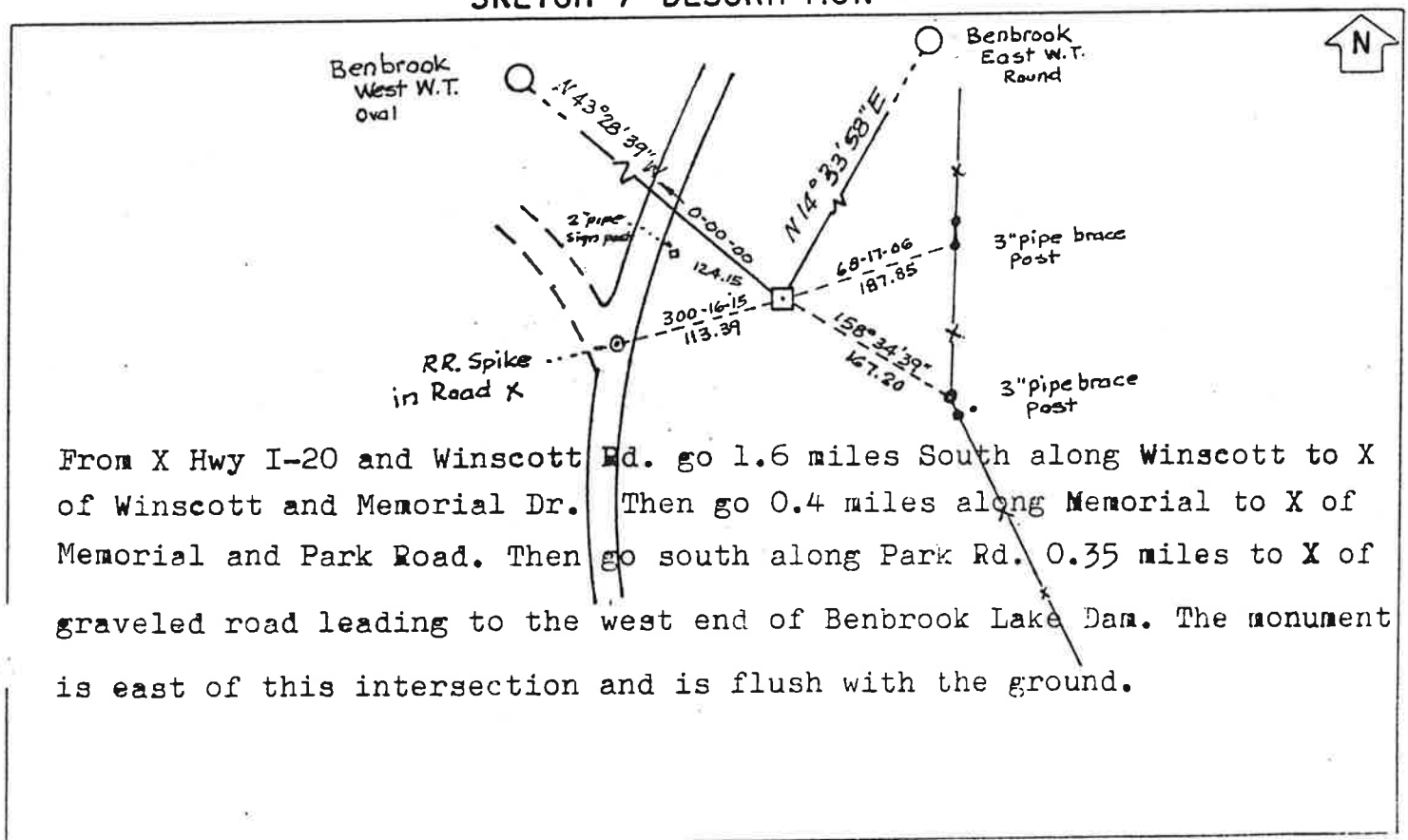
ZIMUTH MARK W. Benbrook W.T.
AZIMUTH N43°28'39"W

1983 DATUM

N 2,110,392.609 METERS
E 697,415.574 METERS
ELV _____ METERS
LAT 32-39-28.2153 N
LONG 97-27-41.2752 W

AZIMUTH MARK W. BENBROOK W.T.
AZIMUTH N44°01'21"W

SKETCH / DESCRIPTION



METROPOLITAN AERIAL SURVEYS
FORT WORTH, TEXAS

DESCRIPTION OF SURVEY MARK:

ORDER OF ACCURACY 2nd. Ord. Class I
COORDINATE SYSTEM TSCS ZONE NCZ
TYPE OF MARK Granite Monument with
brass cap marked
BB 4 RPS 314

MON. NAME BB-4
SET BY / DATE R. Shelton / 12-88
STATE Texas
COUNTY Tarrant
NEAREST TOWN Ft. Worth
PROJECT NAME Benbrook Topo

1927 DATUM

N 383,952.185 FT.
E 2,018,183.350 FT.
ELV 762.57 FT.
LAT 32-43-19.3688 N
LONG 97-26-27.1458 W

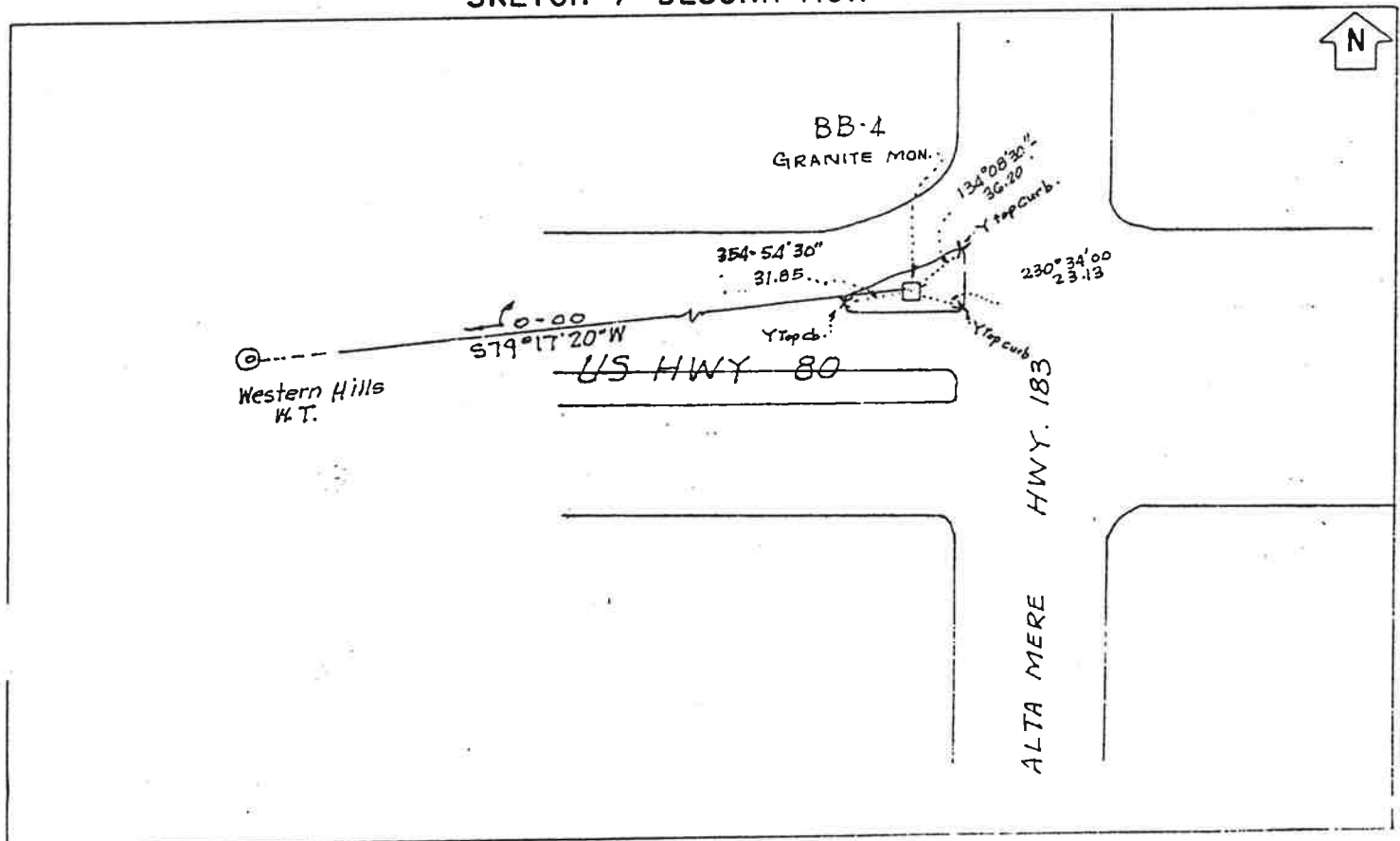
ZIMUTH MARK Western Hills WT.
AZIMUTH S 79° 17' 20" W

1983 DATUM

N 2,117,545.723 METERS
E 699,247.193 METERS
ELV METERS
LAT 32-43-19.8394 N
LONG 97-26-28.2171 W

AZIMUTH MARK Western Hill WT.
AZIMUTH S 78° 44' 36" W

SKETCH / DESCRIPTION



DESCRIPTION OF SURVEY MARK:

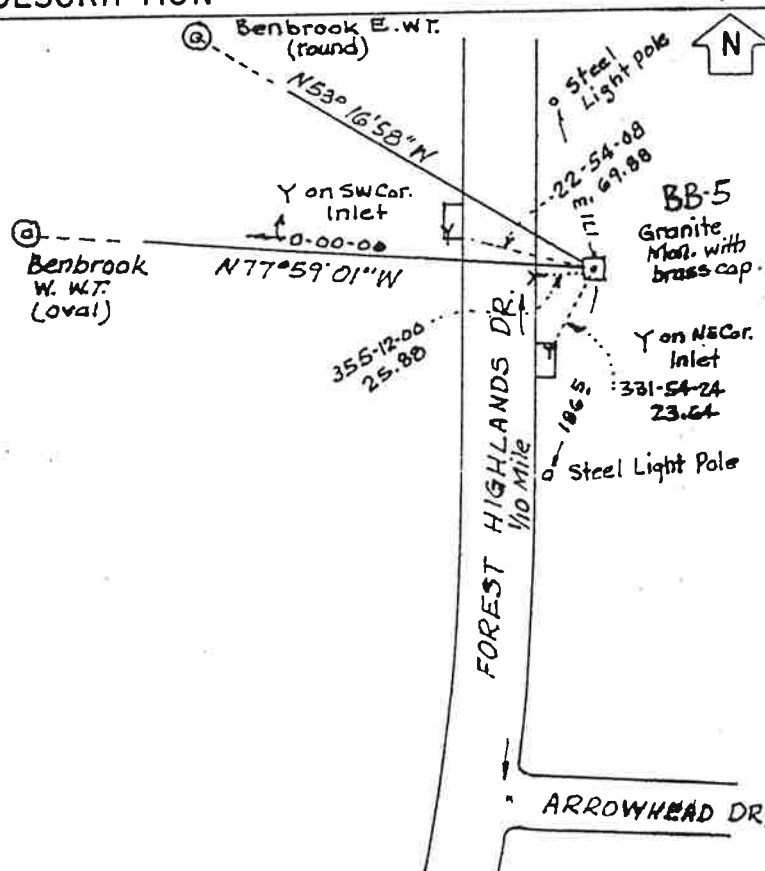
MON. NAME BB-5
SET BY / DATE G. Winecke / 12/8
STATE Texas
COUNTY Tarrant
NEAREST TOWN Ft. Worth
PROJECT NAME Benbrook Topo

1983 DATUM

N 2,111,160.237 METERS
E 700,232.881 METERS
ELV METERS
LAT 32-39-52.2182 N
LONG 97-25-52.8571 W

AZIMUTH MARK W. BENBROOK W.T.
AZIMUTH N. 78° 31' 44" W

Situated on the east side of the
Clear Fork of the Trinity River



METROPOLITAN AERIAL SURVEYS
FORT WORTH, TEXAS

DESCRIPTION OF SURVEY MARK:

ORDER OF ACCURACY 2nd. Order Class I
COORDINATE SYSTEM TSCS ZONE NCZ
TYPE OF MARK Granite Monument with
brass cap marked
BB 6 RPS 314

MON. NAME BB-6
SET BY / DATE G. Winecke / 12-88
STATE TEXAS
COUNTY Tarrant
NEAREST TOWN Benbrook
PROJECT NAME Benbrook Topo

1927 DATUM

N 356,169.522 FT.

E 2,006,155.941 FT.

ELV 776.86 FT.

LAT 32-38-44.4817 N

LONG 97-28-48.0005 W

AZIMUTH MARK Benbrook W. WT. (oval)

AZIMUTH N 3° 16' 03" E

1983 DATUM

N 2,109,042.999 METERS

E 695,661.988 METERS

ELV METERS

LAT 32-38-44.9593 N

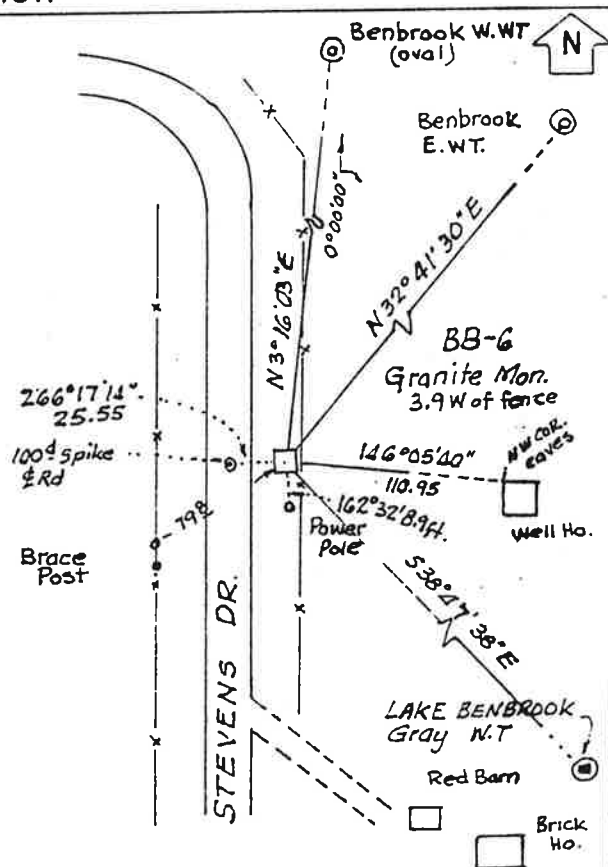
LONG 97-28-49.0748 W

AZIMUTH MARK Benbrook W. WT. (oval)

AZIMUTH N 02° 43' 20" E

SKETCH / DESCRIPTION

From X of Hwy 377 and Stevens Dr.
go south along Stevens Dr. 1.3 miles
to monument. Monument is flush with
the ground.



METROPOLITAN AERIAL SURVEYS
FORT WORTH, TEXAS

DESCRIPTION OF SURVEY MARK:

ORDER OF ACCURACY 2nd. Order Class I

COORDINATE SYSTEM TSCS ZONE NCZ

TYPE OF MARK Granite Monument with

brass cap marked

BB 7 RPS 314

MON. NAME BB-7

SET BY / DATE G. Winecke / 12-88

STATE Texas

COUNTY Tarrant

NEAREST TOWN Ft. Worth

PROJECT NAME Benbrook Topo

1927 DATUM

N 376,889.357 FT.

E 2,023,428.146 FT.

ELV 601.90 FT.

LAT 32-42-09.4431 N

LONG 97-25-25.8102 W

IMUTH MARK Water Tank

AZIMUTH S 3-51-54 E

1983 DATUM

N 2,115,408.270 METERS

E 700,866.236 METERS

ELV _____ METERS

LAT 32-42-09.9156 N

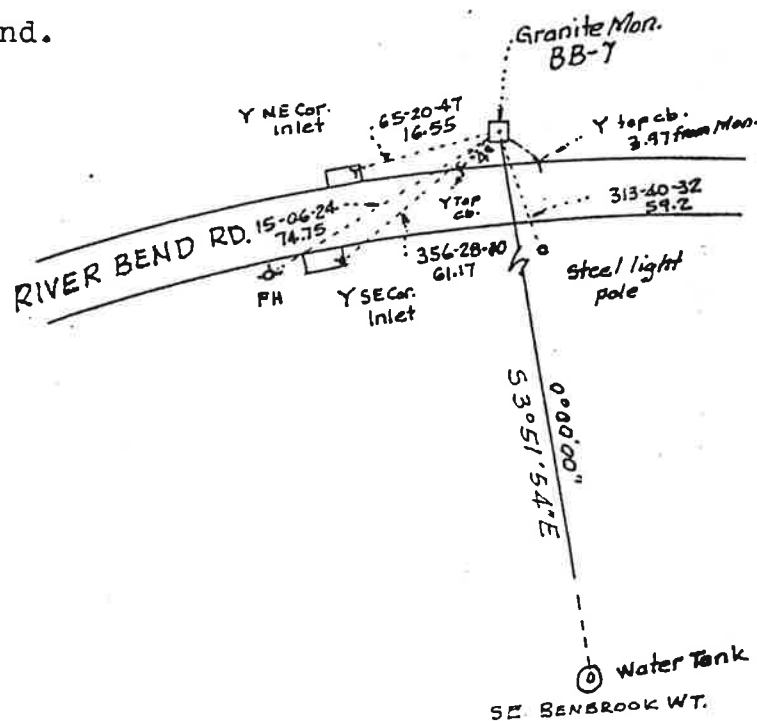
LONG 97-25-26.8796 W

AZIMUTH MARK Water Tank

AZIMUTH 54° 24' 41" E

SKETCH / DESCRIPTION

From intersection of W. Vickery and
River Bend Road go 0.3 miles along
River Bend Rd. to monument.
Monument is flush with the ground.



DESCRIPTION OF SURVEY MARK:

MON. NAME BB-9
SET BY / DATE R. Shelton / 12-88
STATE Texas
COUNTY Tarrant
NEAREST TOWN Fort Worth
PROJECT NAME Benbrook Topo

1983 DATUM:

N 2,113,477.936 METERS
E 702,972.590 METERS
ELV METERS
LAT 32-41-06.5422 N
LONG 97-24-06.7792 W

AZIMUTH MARK Benbrook W. WT. (oval)
 AZIMUTH 578° 47' 58" W

Benbrook E. WT.

Benbrook W. WT.

FRONTAGE RD.

W. Bound Lane Hwy. 183

Power Pole

Yon curb

Yon curb

International

N

582°34'33"W

579°20'41"W

59°57'9.36"

81°49'00.3"

180°12'132.3

202°27'9.19

0-00-00

To I-20

From X Hwy. 183 and Hulen St. go W. along north frontage road 0.6 miles to monument. 550 ft. E of overpass. Monument is flush with ground.

METROPOLITAN AERIAL SURVEYS
FORT WORTH, TEXAS

DESCRIPTION OF SURVEY MARK:

ORDER OF ACCURACY 2nd. Ord. Class I
COORDINATE SYSTEM TSCS ZONE NC
TYPE OF MARK Granite Monument with
brass cap marked
BB-10 RPS-314

MON. NAME BB-10
SET BY / DATE G. Winecke / 12-88
STATE TEXAS
COUNTY Tarrant
NEAREST TOWN Benbrook
PROJECT NAME Benbrook Topo

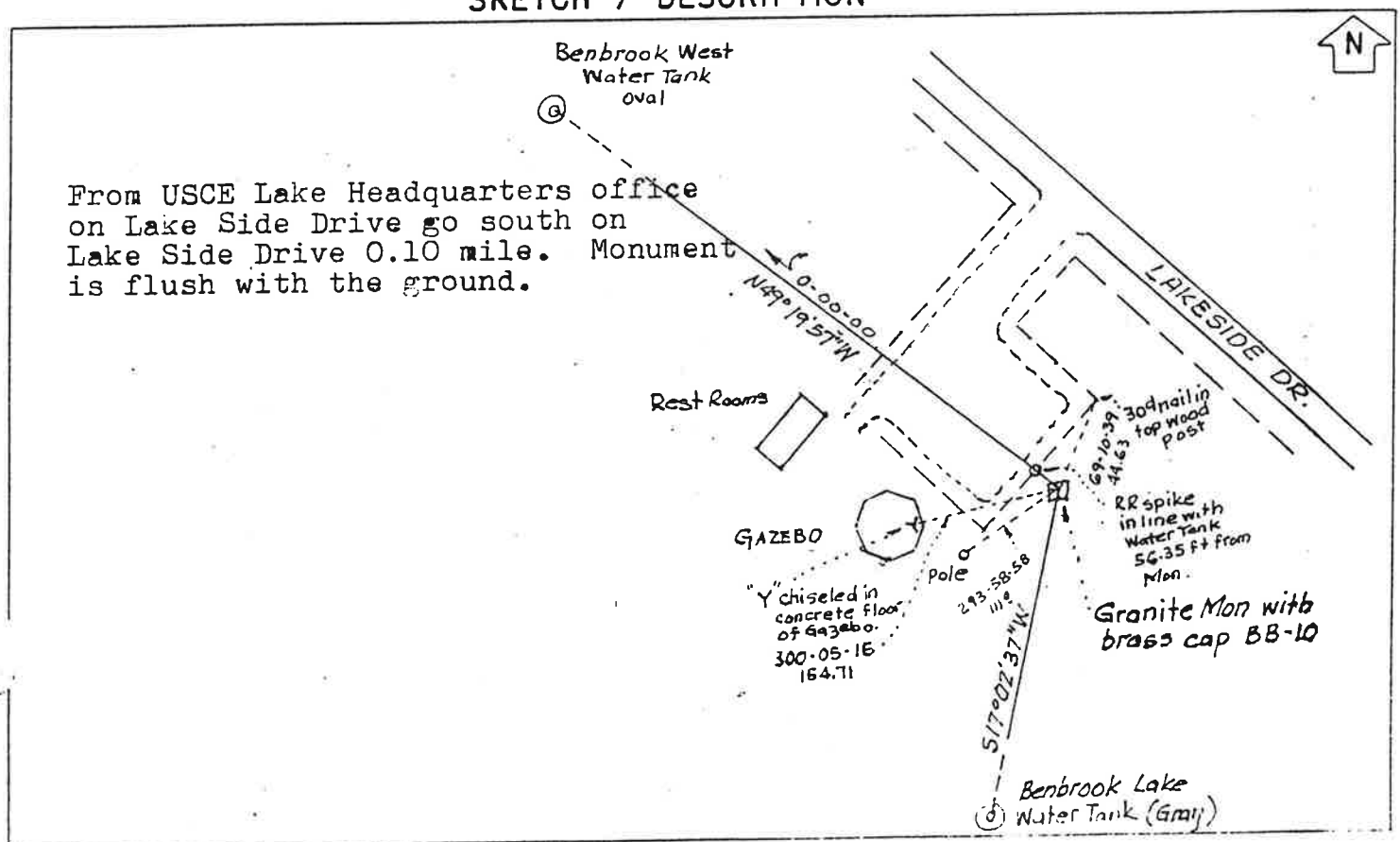
1927 DATUM

N 356,681.262 FT.
E 2,017,635.084 FT.
ELV 774.18 FT.
LAT 32-38-49.5040 N
LONG 97-26-33.7379 W
ZIMUTH MARK W Benbrook WT. (oval)
AZIMUTH N 49° 19' 57" W

1983 DATUM

N 2,109,232.277 METERS
E 699,159.208 METERS
ELV METERS
LAT 32-38-49.9818 N
LONG 97-26-34.8086 W
AZIMUTH MARK W. Benbrook WT. (oval)
AZIMUTH N 49° 52' 40" W

SKETCH / DESCRIPTION



METROPOLITAN AERIAL SURVEYS
FORT WORTH, TEXAS

DESCRIPTION OF SURVEY MARK:

ORDER OF ACCURACY 2nd. Order Class I
 COORDINATE SYSTEM TSCS ZONE NCZ
 TYPE OF MARK Granite Monument with
brass cap marked
BB 11 RPS 314

MON. NAME BB-11
 SET BY / DATE R. Shelton / 12-88
 STATE Texas
 COUNTY Tarrant
 NEAREST TOWN Benbrook
 PROJECT NAME Benbrook Topo

1927 DATUM

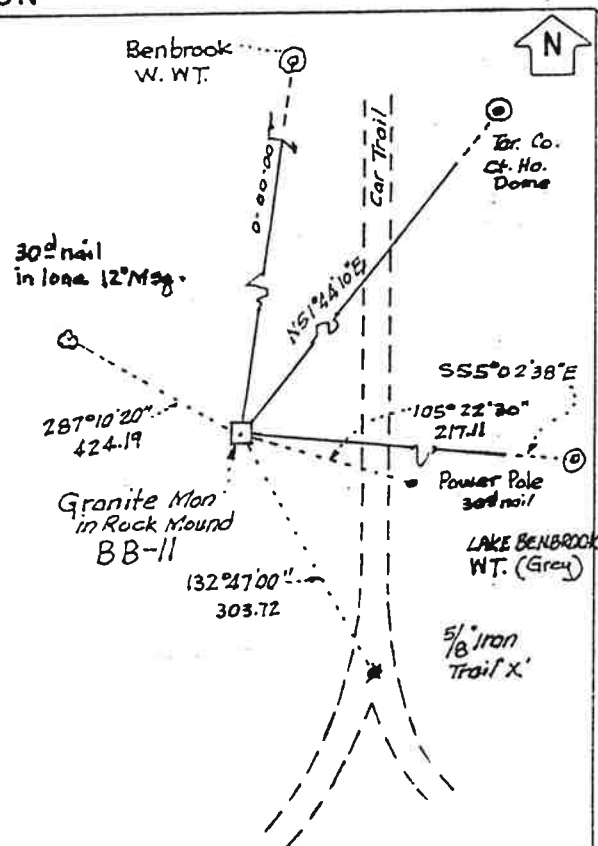
N 356,144.269 FT.
 E 1,999,802.683 FT.
 ELV 866.21 FT.
 LAT 32-38-44.2376 N
 LONG 97-30-02.3078 W
 AZIMUTH MARK Benbrook W. WT. (oval)
 AZIMUTH N 34° 54' 22" E

1983 DATUM

N 2,109,016.869 METERS
 E 693,725.662 METERS
 ELV METERS
 LAT 32-38-44.7150 N
 LONG 97-30-03.3842 W
 AZIMUTH MARK Benbrook W. WT. (oval)
 AZIMUTH N 34° 21' 38" E

SKETCH / DESCRIPTION

From X Stevens Dr. and Hwy. 377 go SW along Hwy. 377 for 1.05 miles to a cross-over leading to a 2 story white farm house. Then go sly along paved drive 0.1 miles to a graveled road leading SW. Thence along graveled road 0.5 miles to Y intersection and monument.



METROPOLITAN AERIAL SURVEYS
FORT WORTH, TEXAS

DESCRIPTION OF SURVEY MARK:

ORDER OF ACCURACY 2nd. Ord. Class I

COORDINATE SYSTEM TSCE ZONE NCZ

TYPE OF MARK Granite Monument with
brass cap marked

BB 12 RPS 314

MON. NAME BB-12

SET BY / DATE G. Winecke / 12-88

STATE Texas

COUNTY Tarrant

NEAREST TOWN Fort Worth

PROJECT NAME Benbrook Topo

1927 DATUM

N 384,701.853 FT.

E 2,011,680.213 FT.

ELV 747.27 FT.

LAT 32-43-26.8171N

LONG 97-27-43.2683 W

AZIMUTH MARK Western Hills HS WT.

AZIMUTH 558° 14' 28"E

1983 DATUM

N 2,117,755.342 METERS

E 697,262.940 METERS

ELV _____ METERS

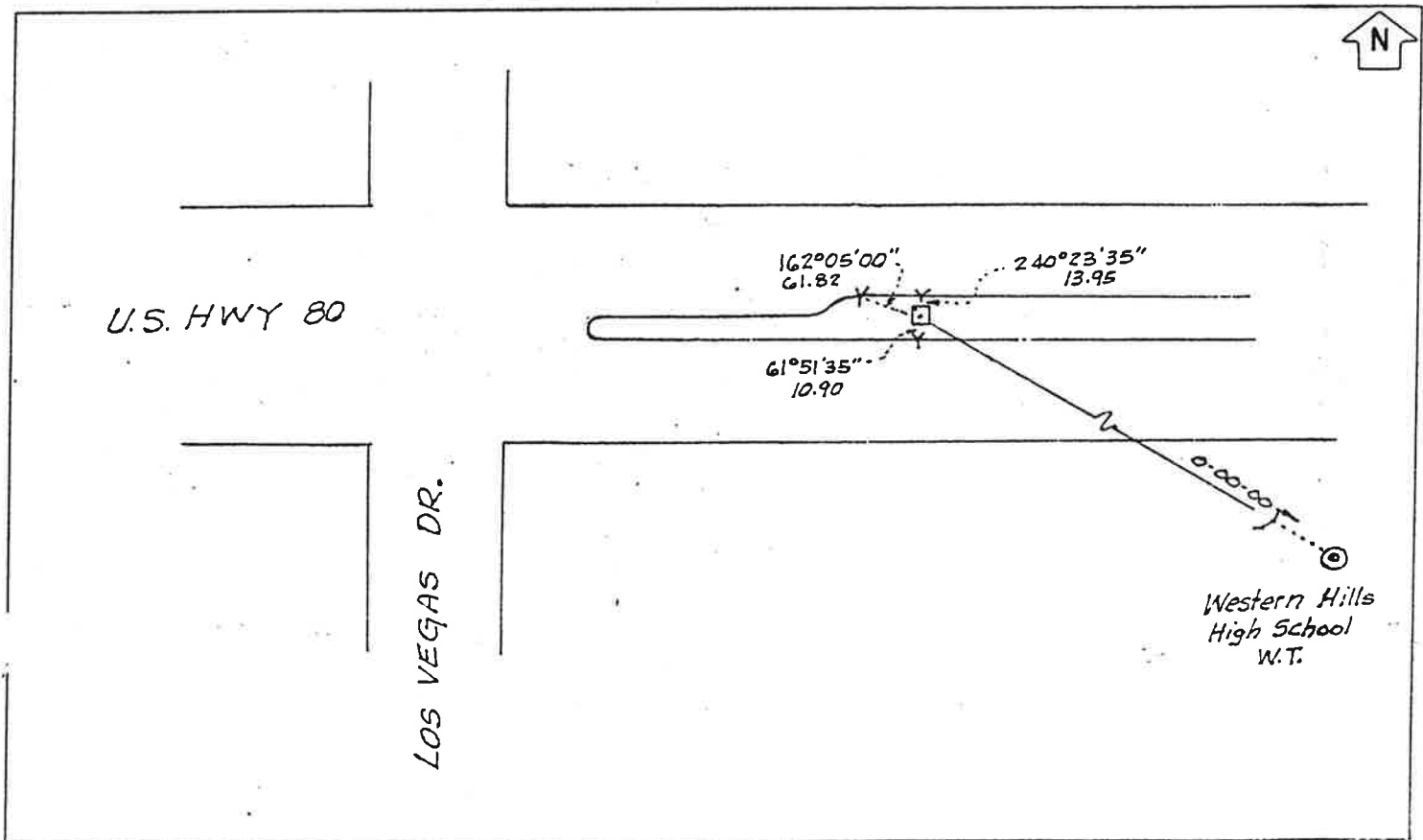
LAT 32-43-27.2872 N

LONG 97-27-44.3417 W

AZIMUTH MARK Western Hills HISCH WT.

AZIMUTH S58° 47' 10"E

SKETCH / DESCRIPTION



METROPOLITAN AERIAL SURVEYS
FORT WORTH, TEXAS

DESCRIPTION OF SURVEY MARK:

ORDER OF ACCURACY 2nd Ord. Class I
COORDINATE SYSTEM TSCS ZONE NCZ
TYPE OF MARK Granite Monument with
brass cap marked
BB 13 RPS 314

MON. NAME BB-13 and BB-8
SET BY / DATE R. Shelton / 12-88
STATE Texas
COUNTY Tarrant
NEAREST TOWN Ft. Worth
PROJECT NAME Benbrook Topo

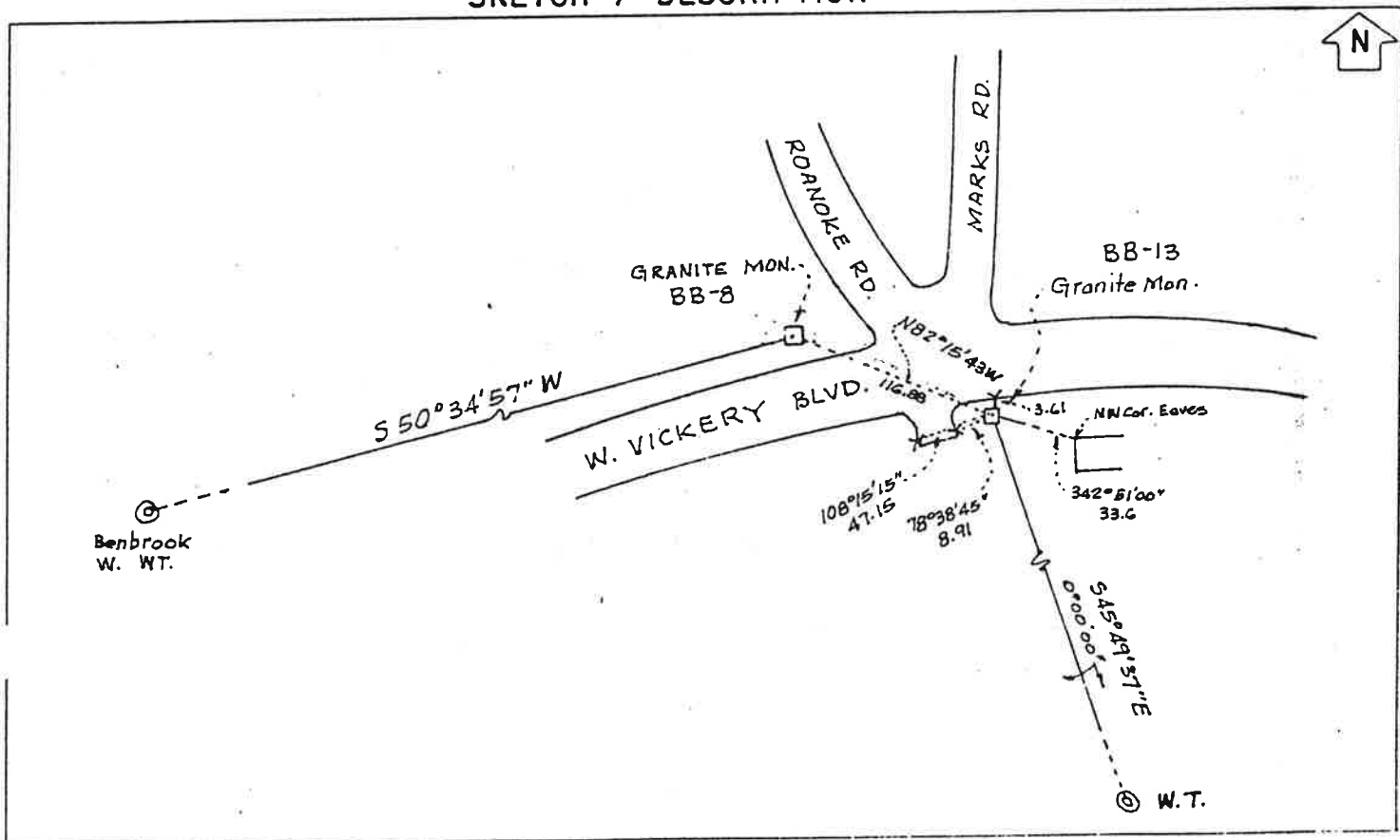
1927 DATUM

N 375,612.668 FT.
E 2,018,479.610 FT.
ELV 676.44 (BB-13) FT.
LAT 32-41-56.8410 N
LONG 97-26-23.7336 W
AZIMUTH MARK Water Tank SE
AZIMUTH S 45-49-37 E

1983 DATUM

N 2,115,004.796 METERS
E 699,361.684 METERS
ELV METERS
LAT 32-41-57.3138 N
LONG 97-26-24.8046 W
AZIMUTH MARK Water Tank SE
AZIMUTH 546°22'25"E

SKETCH / DESCRIPTION



METROPOLITAN AERIAL SURVEYS
FORT WORTH, TEXAS

DESCRIPTION OF SURVEY MARK:

ORDER OF ACCURACY 2nd. Order Class I
COORDINATE SYSTEM TSCS ZONE NCZ
TYPE OF MARK Granite Monument with
brass cap marked
BB 14 RPS 314

MON. NAME BB-14
SET BY / DATE R. Shelton / 12-88
STATE Texas
COUNTY Tarrant
NEAREST TOWN Benbrook
PROJECT NAME Benbrook Topo

1927 DATUM

N 376,860.932 FT.
E 2,008,062.903 FT.
ELV 753.02 FT.
LAT 32-42-09.2359 N
LONG 97-28-25.6364 W

ZIMUTH MARK Benbrook E. Wt.

AZIMUTH 534°53'02"E

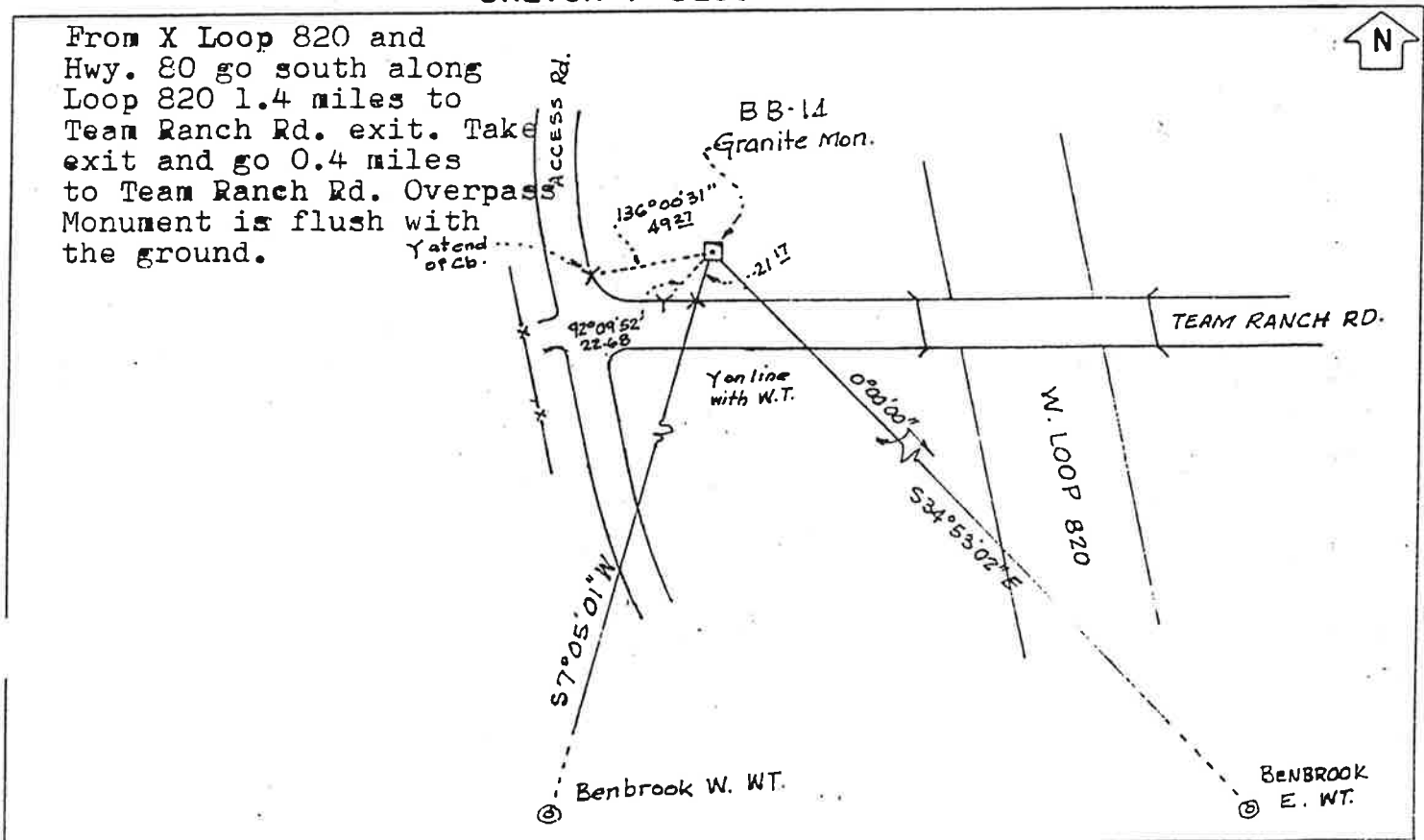
1983 DATUM

N 2,115,355.028 METERS
E 696,183.176 METERS
ELV METERS
LAT 32-42-09.7080 N
LONG 97-28-26.7107 W

AZIMUTH MARK Benbrook E. Water Tank

AZIMUTH 535°25'46"E

SKETCH / DESCRIPTION



METROPOLITAN AERIAL SURVEYS
FORT WORTH, TEXAS

DESCRIPTION OF SURVEY MARK:

ORDER OF ACCURACY 2nd. Order Class I

COORDINATE SYSTEM TSCS ZONE NCZ

TYPE OF MARK Granite Monument with
brass cap marked

BB 15 RPS 314

MON. NAME BB-15

SET BY / DATE R. Shelton / 12-88

STATE Texas

COUNTY Tarrant

NEAREST TOWN Benbrook

PROJECT NAME Benbrook Topo

1927 DATUM

N 368,110.908 FT.

E 2,000,300.754 FT.

ELV 780.92 FT.

LAT 32-40-42.6573 N

LONG 97-29-56.4811 W

ZIMUTH MARK W. Benbrook Water Tank
(oval)

AZIMUTH 572°16'16"E

1983 DATUM

N 2,112,665.603 METERS

E 693,842.750 METERS

ELV _____ METERS

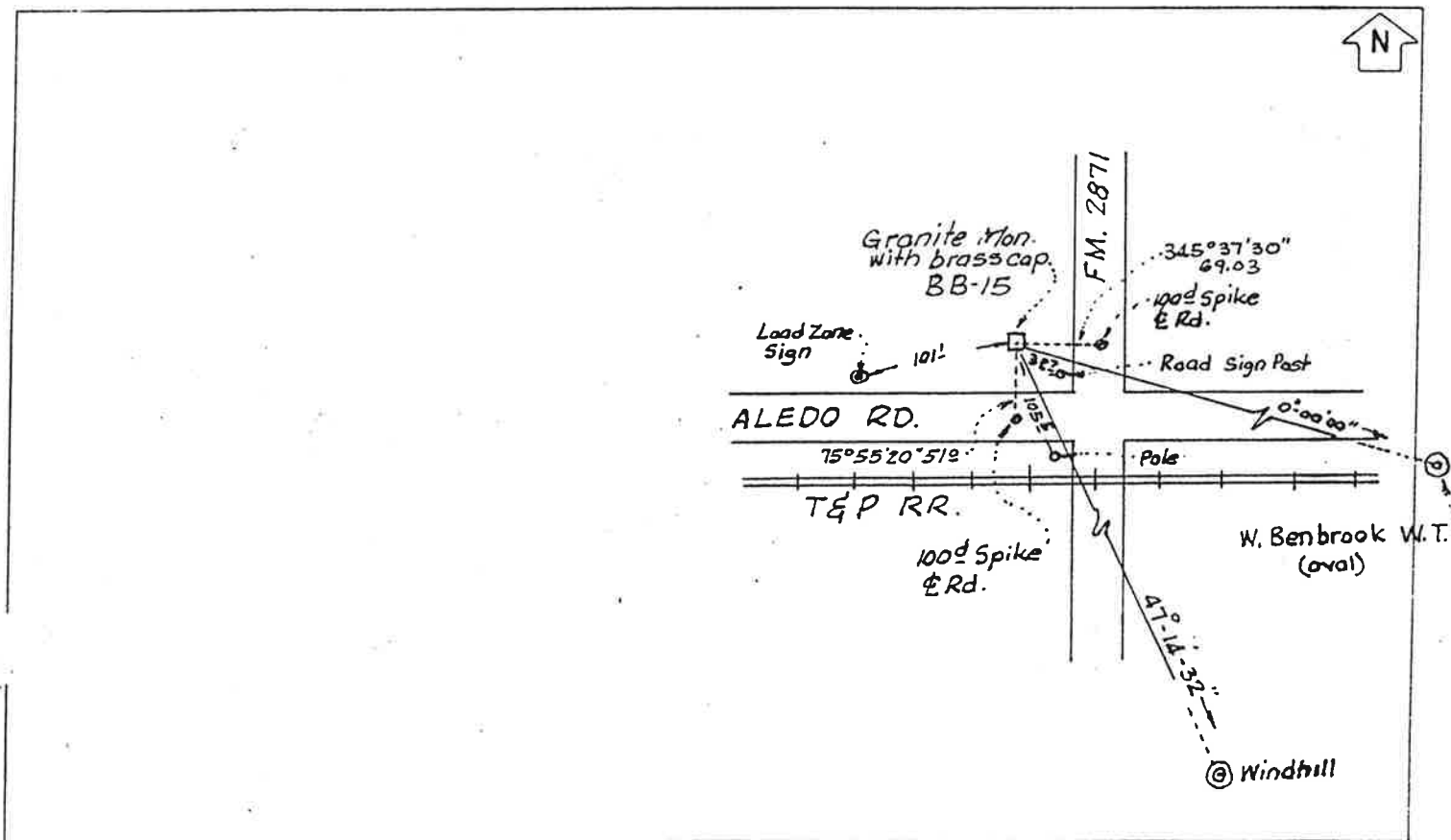
LAT 32-40-43.1315 N

LONG 97-29-57.5577 W

AZIMUTH MARK W. Benbrook Wt. (oval)

AZIMUTH 572°49'01"E

SKETCH / DESCRIPTION



METROPOLITAN AERIAL SURVEYS
FORT WORTH, TEXAS

DESCRIPTION OF SURVEY MARK:

ORDER OF ACCURACY 2nd. Order Class I
COORDINATE SYSTEM TSCS ZONE NCZ
TYPE OF MARK Granite Monument with
brass cap marked
BB 16 RPS 314

MON. NAME BB-16
SET BY / DATE G. Winecke / 12-88
STATE Texas
COUNTY Tarrant
NEAREST TOWN Benbrook / Ft. Worth
PROJECT NAME Benbrook Topo

1927 DATUM

N 369,948.141 FT.

E 2,023,566.014 FT.

ELV 655.70 FT.

LAT 32-41-00.7532 N

LONG 97-25-24.2559 W

AZIMUTH MARK Benbrook E. Wt. (round)

AZIMUTH S 80° 37' 59" W

1983 DATUM

N 2,113,293.071 METERS

E 700,928.396 METERS

ELV METERS

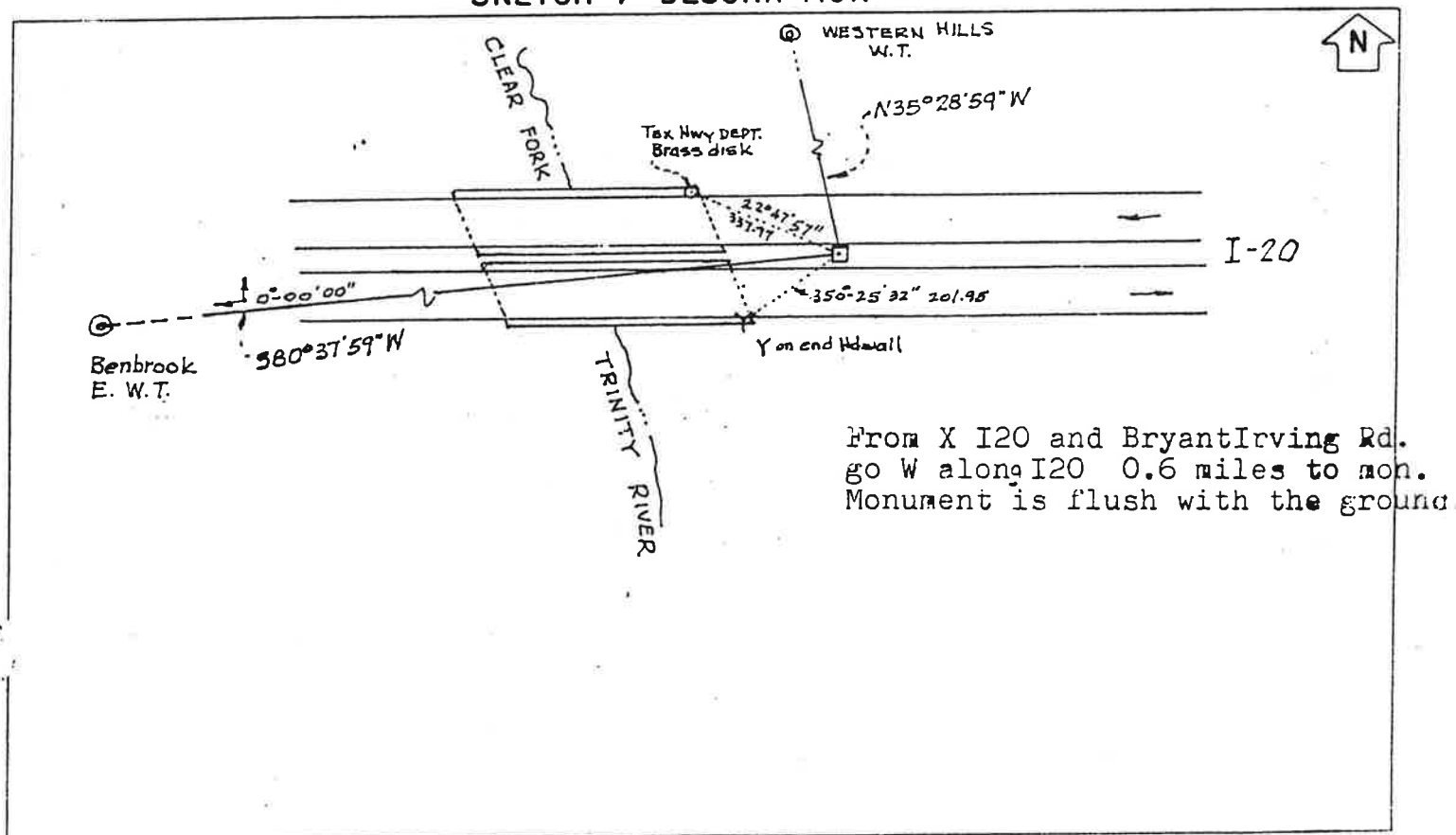
LAT 32-41-01.2276 N

LONG 97-25-25.3250 W

AZIMUTH MARK Benbrook E. Wt. (round)

AZIMUTH S 80° 05' 16" W

SKETCH / DESCRIPTION



METROPOLITAN AERIAL SURVEYS
FORT WORTH, TEXAS

DESCRIPTION OF SURVEY MARK:

ORDER OF ACCURACY 3rd. Order Class I

COORDINATE SYSTEM TSCS ZONE NCZ

TYPE OF MARK Middle of top of
Water Tank

MON. NAME Benbrook Lake E. Water

SET BY / DATE _____ / Jan-89

STATE Texas

COUNTY Tarrant

NEAREST TOWN Benbrook

PROJECT NAME Benbrook Topo

1927 DATUM

N 345,973.06 FT.

E 2,014,352.34 FT.

ELV _____ FT.

LAT 32-37-03.5535 N

LONG 97-27-12.1889 W

ZIMUTH MARK _____

AZIMUTH _____

1983 DATUM

N 2,105,959.017 METERS

E 698,189.724 METERS

ELV _____ METERS

LAT 32-37-04.0339 N

LONG 97-27-13.2607 W

AZIMUTH MARK _____

AZIMUTH _____

SKETCH / DESCRIPTION

Located on the east side of Benbrook Lake
about 2 miles, south of dam



METROPOLITAN AERIAL SURVEYS
FORT WORTH, TEXAS

DESCRIPTION OF SURVEY MARK:

ORDER OF ACCURACY 3rd. Order Class I
COORDINATE SYSTEM TSCS ZONE 2
TYPE OF MARK Vent top of Water Tank

MON. NAME Benbrook St. Water Tank
SET BY / DATE _____ / 1-25-80
STATE Texas
COUNTY Tarrant
NEAREST TOWN Benbrook
PROJECT NAME Benbrook Topo

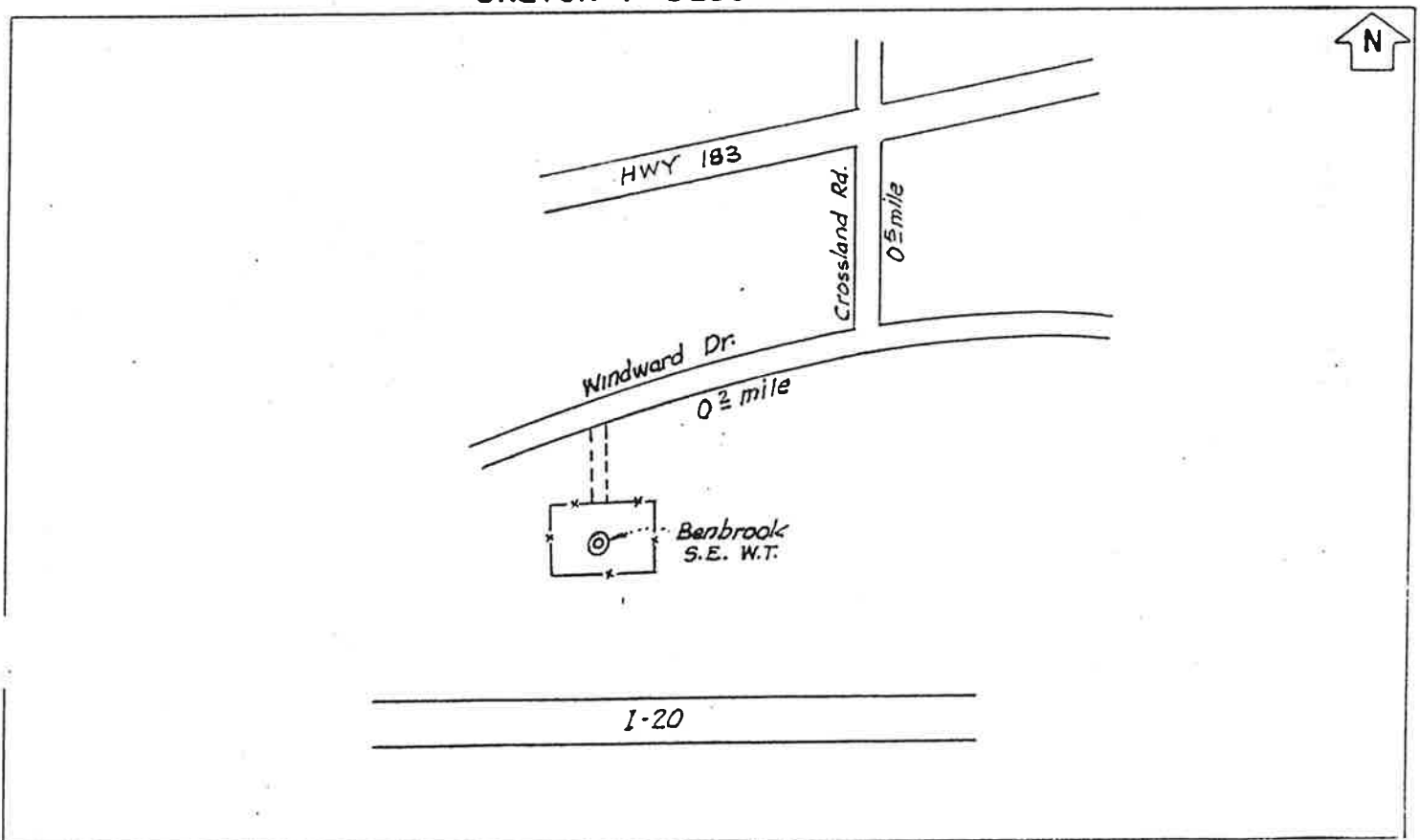
1927 DATUM

N 370,377.68 FT.
E 2,023,868.16 FT.
ELV _____ FT.
LAT 32-41-05.0017 N
LONG 97-25-20.7169 W
ZIMUTH MARK _____
AZIMUTH _____

1983 DATUM

N 2,113,424.863 METERS
E 701,019.244 METERS
ELV _____ METERS
LAT 32-41-05.4757 N
LONG 97-25-21.7857 W
AZIMUTH MARK _____
AZIMUTH _____

SKETCH / DESCRIPTION



METROPOLITAN AERIAL SURVEYS
FORT WORTH, TEXAS

DESCRIPTION OF SURVEY MARK:

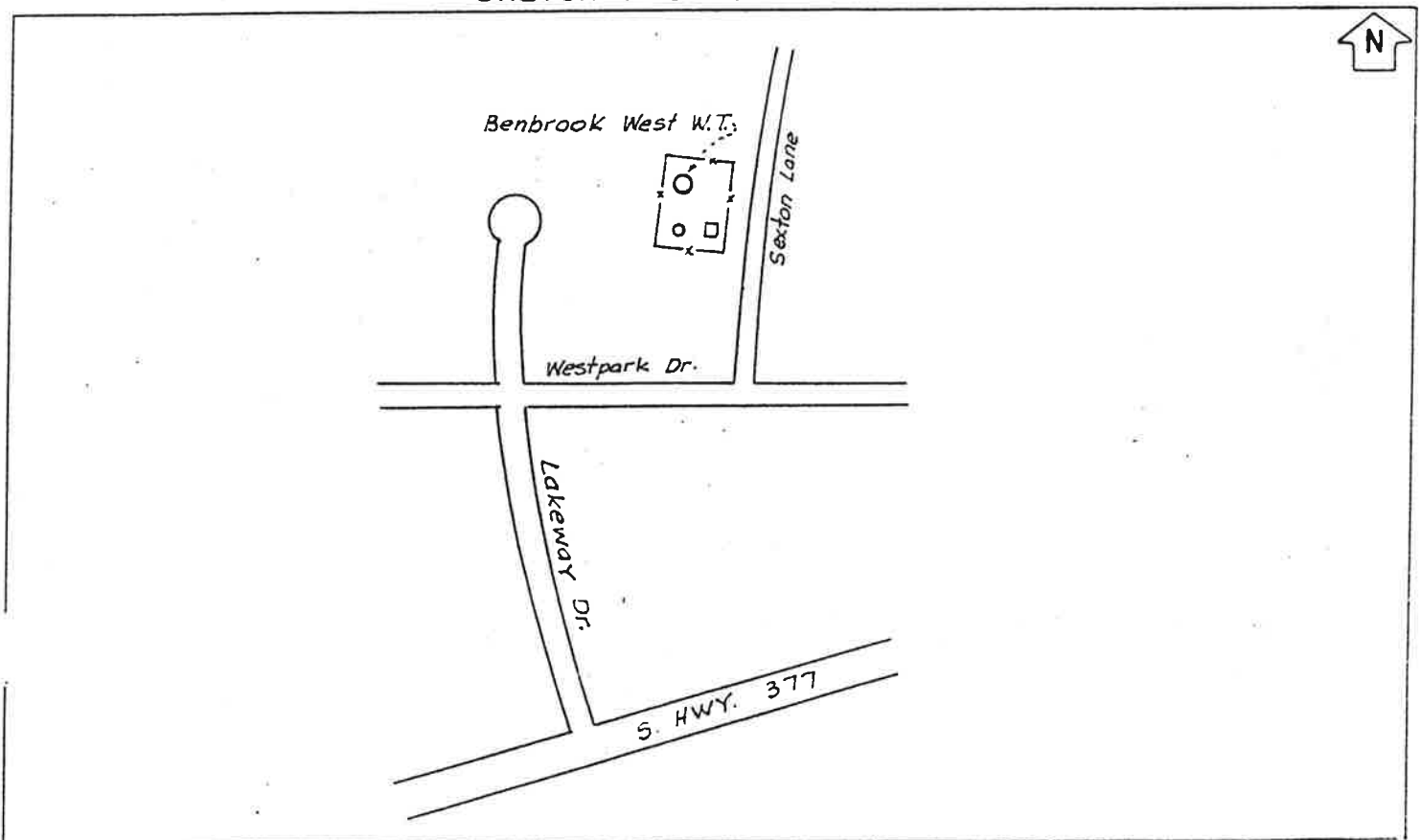
ORDER OF ACCURACY 3 (Order Class I)
COORDINATE SYSTEM TSCS ZONE NCZ
TYPE OF MARK Vent top of Water Tank

MON. NAME Benbrook W. Water Tank
SET BY / DATE _____ / 1-25-89
STATE Texas
COUNTY Tarrant
NEAREST TOWN Benbrook
PROJECT NAME Benbrook Topo

1927 DATUM
N 366,058.53 FT.
E 2,006720.52 FT.
ELV _____ FT.
LAT 32-40-22.3405 N
LONG 97-28-41.3732 W
ZIMUTH MARK _____
AZIMUTH _____

1983 DATUM
N 2,112,058.700 METERS
E 695,805.380 METERS
ELV _____ METERS
LAT 32-40-22.8157 N
LONG 97-28-42.4474 W
AZIMUTH MARK _____
AZIMUTH _____

SKETCH / DESCRIPTION



METROPOLITAN AERIAL SURVEYS
FORT WORTH, TEXAS

DESCRIPTION OF SURVEY MARK:

ORDER OF ACCURACY 3rd. Order Class I

COORDINATE SYSTEM TSCS ZONE NCZ

TYPE OF MARK Vent on top of Water Tank

MON. NAME Benbrook East Water Tank

SET BY / DATE / 1-25-89

STATE Texas

COUNTY Tarrant

NEAREST TOWN Benbrook

PROJECT NAME Benbrook Topo

1927 DATUM

N 368,367.58 FT.

E 2,013,984.42 FT.

ELV FT.

LAT 32-40-45.1674 N

LONG 97-27-16.3774 W

ZIMUTH MARK

AZIMUTH

1983 DATUM

N 2,112,783.541 METERS

E 698,012.632 METERS

ELV METERS

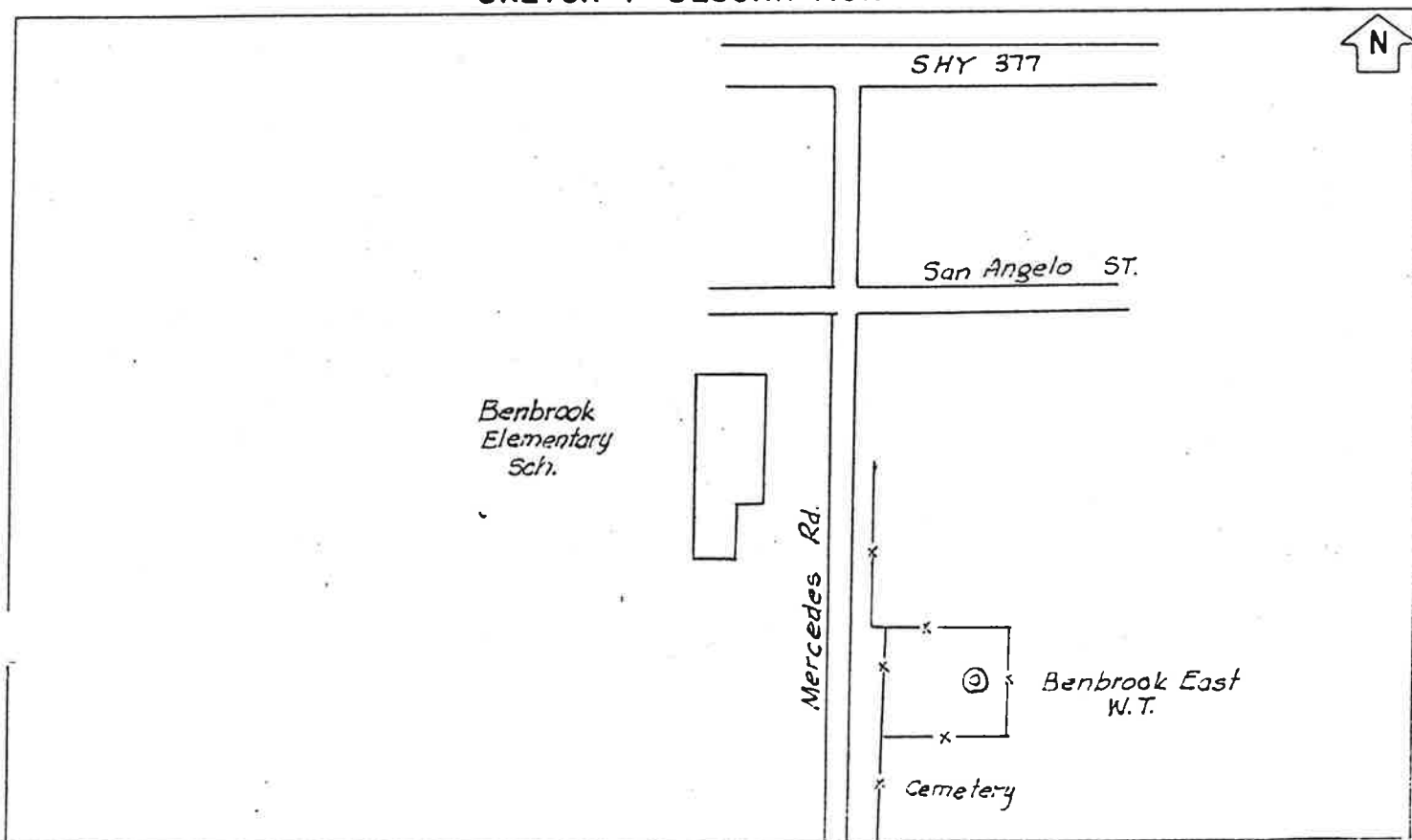
LAT 32-40-45.6420 N

LONG 97-27-17.4493 W

AZIMUTH MARK

AZIMUTH

SKETCH / DESCRIPTION



METROPOLITAN AERIAL SURVEYS
FORT WORTH, TEXAS

DESCRIPTION OF SURVEY MARK:

ORDER OF ACCURACY 3rd. Order Class I
COORDINATE SYSTEM TSCS ZONE NCZ
TYPE OF MARK Vent top Water Tank
Green Oval Shaped

MON. NAME NW Benbrook Water Tank
SET BY / DATE 1-25-89 /
STATE Texas
COUNTY Tarrant
NEAREST TOWN Benbrook
PROJECT NAME Benbrook Topo

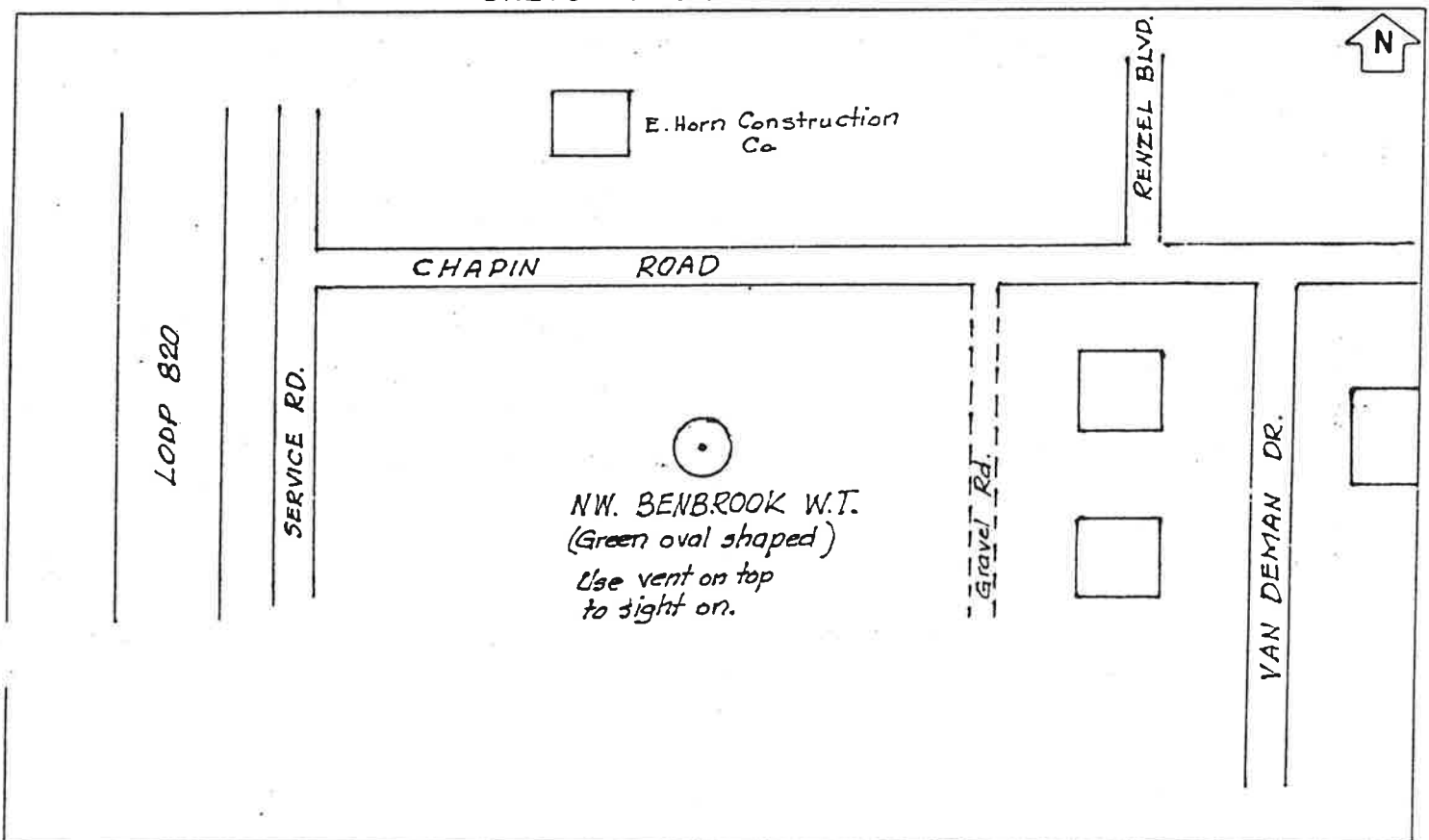
1927 DATUM

N 382,192.62 FT.
E 2,007,559.16 FT.
ELV FT.
LAT
LONG
AZIMUTH MARK NA
AZIMUTH NA

1983 DATUM

N 2,116,978.607 METERS
E 696,014.166 METERS
ELV METERS
LAT 32-43-02.469 N
LONG 97-28-32.592 W
AZIMUTH MARK
AZIMUTH

SKETCH / DESCRIPTION



METROPOLITAN AERIAL SURVEYS
FORT WORTH, TEXAS

DESCRIPTION OF SURVEY MARK:

ORDER OF ACCURACY 3rd. Order Class I
COORDINATE SYSTEM TSCS ZONE NCZ
TYPE OF MARK Red Light on top of
Water Tank

MON. NAME Western Hills Water Tan.
SET BY / DATE _____ / Jan '89
STATE Texas
COUNTY Tarrant
NEAREST TOWN Benbrook
PROJECT NAME Benbrook Topo

1927 DATUM

N 383,185.44 FT.
E 2,014,129.85 FT.
ELV _____ FT.
LAT _____
LONG _____
ZIMUTH MARK NA
AZIMUTH NA

1983 DATUM

N 2,117,300.265 METERS
E 698,013.955 METERS
ELV _____ METERS
LAT 32-43-12.272 N
LONG 97-27-15.673 W
AZIMUTH MARK _____
AZIMUTH _____

SKETCH / DESCRIPTION

