



DRAFTING & SURVEYING, INC.

3404 Interurban Road

Denison, TX 75021

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Technical Report

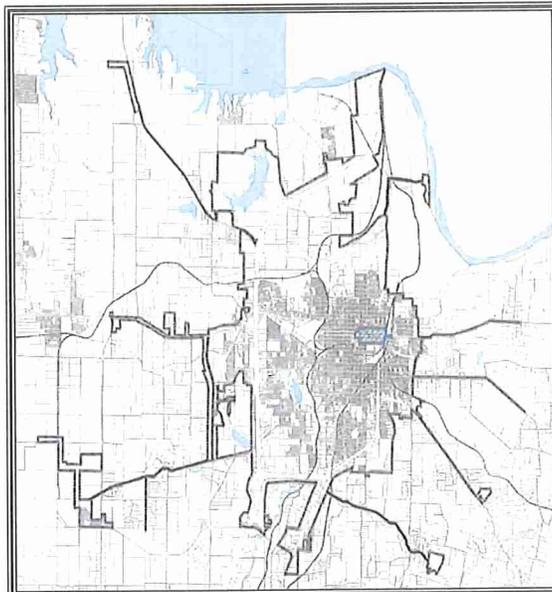
The City of Denison Geodetic Control Survey

Located Within the City Limits of
Denison, Grayson County, Texas

Prepared for:



The City of Denison, Texas



UDS Project Number: 11050207

Control Survey Goals and Accomplishments

1. The goal was to establish 5 survey control monuments. These monuments are complimented by two other existing stations established by the National Geodetic Survey and the USDA Soil Conservation Service and are tied into this network.
2. The monuments set are 12-inch diameter by 5-feet deep concrete piers with ½” rebar cages set flush to the ground. 3 ¼” brass caps engraved with “City of Denison Control Monument No. ~ 1-XXX were fixed into the top of each monument. (XXX ~ Station Number)
3. An overall control diagram showing monumentation along with control station diagrams for all of the newly established stations along with photos, to reach descriptions and reference ties are provided as a part of this report.

Project Datum

1. The Project Horizontal Datum is the North American Datum of 1983, (NAD83) CORS96 Adjustment.
2. The Project Vertical Datum is the North American Vertical Datum of 1988 (NAVD 88), CORS96 Adjustment utilizing GEOID09 to determine orthometric heights.
3. All final position information is based on the National Geodetic Survey’s Online User Positioning Service (OPUS) software.
4. Grid Coordinates for all control stations are provided in the Texas State Plane Coordinate System, North Central Zone (4202).
5. Surface Coordinates are based on the following formula: Grid Northing * 1.00008102 = Surface Northing AND Grid Easting * 1.00008102 = Surface Easting. The factor of 1.00008102 is the average Combined Factor for this project.
6. Units reported are US Survey Feet. (Meters * 3937/1200 = US Survey Feet)



City of Denison Monuments Geodetic Control Station – Page 1

Underwood Drafting & Surveying, Inc. Project No. 11050207	Station Name: Mon #1-101
County: Grayson State: Texas	Established by: Underwood Drafting & Surveying, Inc. Date Established: January 2, 2012
Intervisible Stations: None Units of Measure: US Survey Foot	Survey Method Hor.: GPSOBS ¹ Survey Method Ver.: GPSOBS ¹
Horizontal Datum: NAD83 Horizontal Adj.: CORS96 Projections Zone: SPC 4202 - TXNC	Vertical Datum: NAVD88 Vertical Adjustment: CORS96 Geoid Model Used: GEOID09
Mark Logo: City of Denison Control Monument 3 1/4" brass disk	NGS PID (If applic.): N/A
Stamping: 1-101	Grid Northing: 7311280.7400
Condition: Good	Grid Easting: 2563429.5992
Marker: 5' X 12" Dia. Conc. Mon.	Scale Factor: 0.99993886
Stability: C	Elevation Factor: 0.99997516
Latitude: 33°42'42.59208" N	Combined Factor: 0.99991402
Longitude: 96°32'36.69419" W	Convergence: 01°04'01"
Ellipsoid Height: 519.245	Surface Northing³: 7311873.0999
Elevation²: 605.370	Surface Easting³: 2563637.2883
<u>To Reach Description</u>	
<p>This station is located on the East side of the Fannin Road bridge over Iron Ore Creek approximately 2.9 miles South of the City Hall building in Denison, Texas.</p> <p>From the intersection of Eisenhower Parkway (Spur 503) and Fannin Road; Go South along Fannin Road 1.0 mile to the station on the left. The station is located in the bridge deck 55 feet South of the Northeast corner of the bridge.</p>	
Notes: <ol style="list-style-type: none"> 1. This station was established by taking two independent dual frequency GPS static observations, 2-hours in length at a 5-second epoch update rate and processed with the rapid ephemeris using NGS Online User Positioning Service (OPUS) software. The position information shown is the average of the two independent observations. 2. The elevation is based on the OPUS calculated ellipsoid height and the GEOID09 geoid height. Local ties to differentially leveled Benchmarks were not made for this survey. 3. Grid Northing *1.00008102 = Surface Northing AND Grid Easting * 1.00008102 = Surface Easting. 	

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Underwood Drafting & Surveying, Inc.

Project No. 11050207

Station Name:

Mon #1-101

Station Sketch

Mon. #1-101

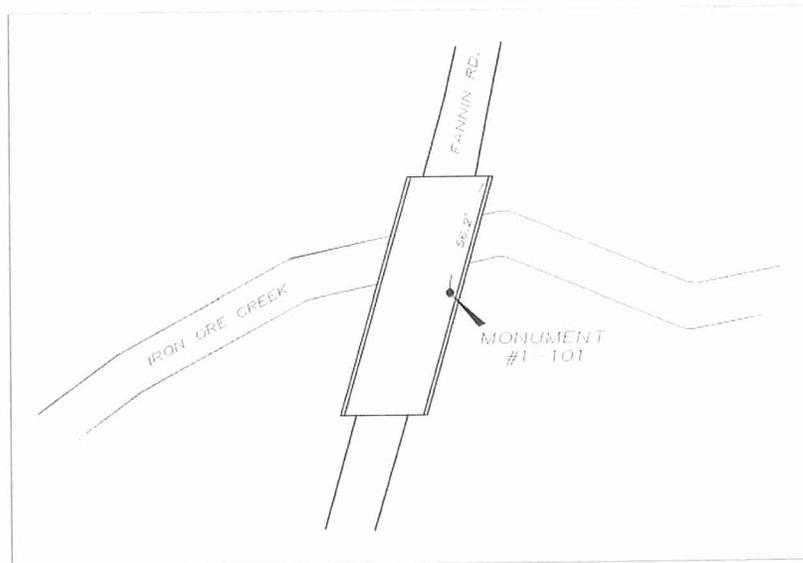


Photo 1 – Station Area Picture



1-101, Facing East

Photo 2 – Station Area Picture



1-101

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City of Denison Monuments Geodetic Control Station – Page 1

Underwood Drafting & Surveying, Inc. Project No. 11050207	Station Name: Mon #1-102
County: Grayson State: Texas	Established by: Underwood Drafting & Surveying, Inc. Date Established: January 2, 2012
Intervisible Stations: None Units of Measure: US Survey Foot	Survey Method Hor.: GPSOBS ¹ Survey Method Ver.: GPSOBS ¹
Horizontal Datum: NAD83 Horizontal Adj.: CORS96 Projections Zone: SPC 4202 - TXNC	Vertical Datum: NAVD88 Vertical Adjustment: CORS96 Geoid Model Used: GEOID09
Mark Logo: City of Denison Control Monument 3 1/4" brass disk	NGS PID (If applic.): N/A
Stamping: 1-102	Grid Northing: 7329331.9736
Condition: Good	Grid Easting: 2567151.4520
Marker: 5' X 12" Dia. Conc. Mon.	Scale Factor: 0.99994916
Stability: C	Elevation Factor: 0.99996914
Latitude: 33°45'40.45948" N	Combined Factor: 0.99991830
Longitude: 96°31'48.63523" W	Convergence: 01°04'28"
Ellipsoid Height: 645.033	Surface Northing³: 7329925.7961
Elevation²: 731.503	Surface Easting³: 2567359.4426
<u>To Reach Description</u>	
<p>This station is located on the East side of Travis Street approximately 0.8 miles Northeast of the City Hall building in Denison, Texas.</p> <p>From the intersection of Main Street and Travis Street; Go North along Travis Street 0.4 mile to the station on the right. The station is located on the north side of the entrance road to Oakwood Cemetery; 37.0 feet East of the center of Travis Street and 67.3 feet southeast of a power pole.</p>	
Notes: <ol style="list-style-type: none"> 1. This station was established by taking two independent dual frequency GPS static observations, 2-hours in length at a 5-second epoch update rate and processed with the rapid ephemeris using NGS Online User Positioning Service (OPUS) software. The position information shown is the average of the two independent observations. 2. The elevation is based on the OPUS calculated ellipsoid height and the GEOID09 geoid height. Local ties to differentially leveled Benchmarks were not made for this survey. 3. Grid Northing *1.00008102 = Surface Northing AND Grid Easting * 1.00008102 = Surface Easting. 	

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Underwood Drafting & Surveying, Inc. Project No. 11050207	Station Name: Mon #1-102
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Station Sketch

Mon. #1-102

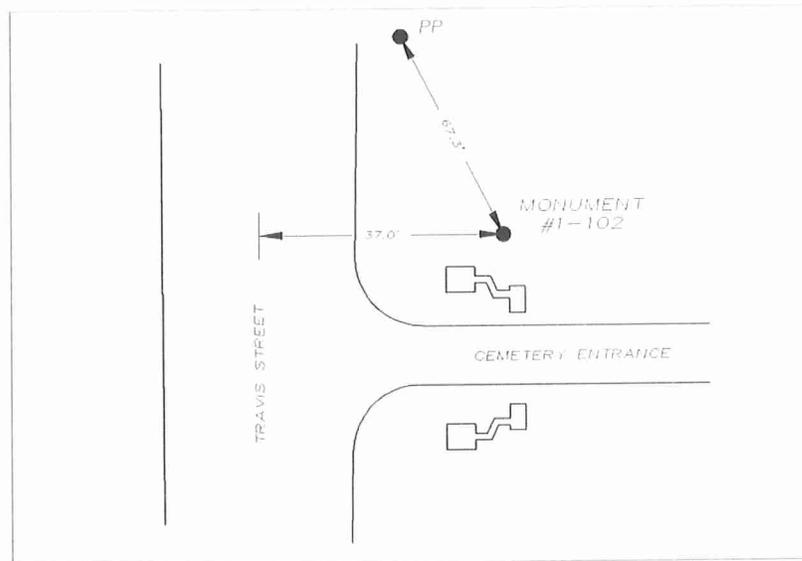


Photo 1 – Station Area Picture



1-102, Facing East

Photo 2 – Station Area Picture



1-102

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City of Denison Monuments Geodetic Control Station – Page 1

Underwood Drafting & Surveying, Inc. Project No. 11050207	Station Name: Mon #1-103
County: Grayson State: Texas	Established by: Underwood Drafting & Surveying, Inc. Date Established: January 2, 2012
Intervisible Stations: None Units of Measure: US Survey Foot	Survey Method Hor.: GPSOBS ¹ Survey Method Ver.: GPSOBS ¹
Horizontal Datum: NAD83 Horizontal Adj.: CORS96 Projections Zone: SPC 4202 - TXNC	Vertical Datum: NAVD88 Vertical Adjustment: CORS96 Geoid Model Used: GEOID09
Mark Logo: City of Denison Control Monument 3 1/4" brass disk	NGS PID (If applic.): N/A
Stamping: 1-103	Grid Northing: 7327863.7514
Condition: Good	Grid Easting: 2547618.9123
Marker: 5' X 12" Dia. Conc. Mon.	Scale Factor: 0.99994851
Stability: C	Elevation Factor: 0.99996323
Latitude: 33°45'29.50047" N	Combined Factor: 0.99991174
Longitude: 96°35'40.27301" W	Convergence: 01°02'21"
Ellipsoid Height: 768.622	Surface Northing³: 7328457.4549
Elevation²: 854.673	Surface Easting³: 2547825.3204
<u>To Reach Description</u>	
<p>This station is located on the North side of F.M. Highway No. 120 (Morton Street) approximately 3.05 miles West of the City Hall building in Denison, Texas.</p> <p>From the intersection of U.S Highway 75 and F.M. Highway 120; Go West along F.M. 120 0.6 mile to the station on the right. The station is located on the west side of the entrance road to the Parkdale Water Tower; 89.4 feet East of a chain link corner post and 126.9 feet west of a power pole.</p>	
Notes: <ol style="list-style-type: none"> 1. This station was established by taking two independent dual frequency GPS static observations, 2-hours in length at a 5-second epoch update rate and processed with the rapid ephemeris using NGS Online User Positioning Service (OPUS) software. The position information shown is the average of the two independent observations. 2. The elevation is based on the OPUS calculated ellipsoid height and the GEOID09 geoid height. Local ties to differentially leveled Benchmarks were not made for this survey. 3. Grid Northing *1.00008102 = Surface Northing AND Grid Easting * 1.00008102 = Surface Easting. 	

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<p>Underwood Drafting & Surveying, Inc. Project No. 11050207</p>	<p>Station Name: Mon #1-103</p>
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Station Sketch

Mon. #1-103

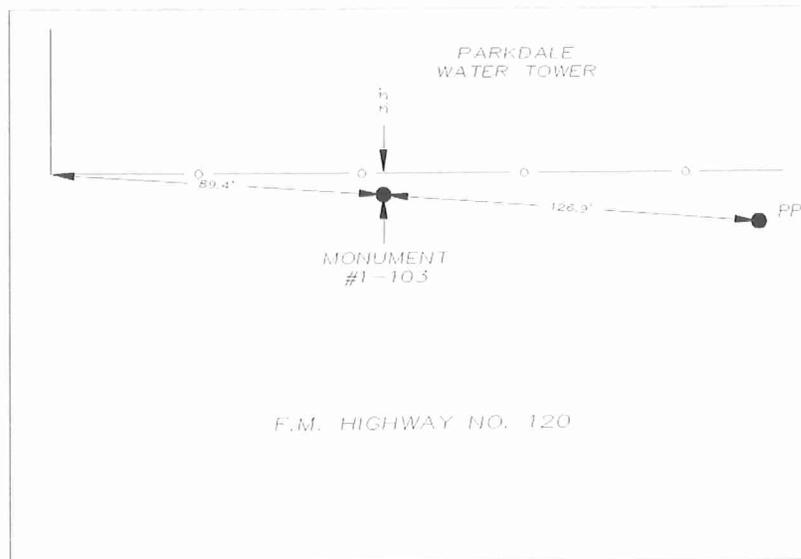


Photo 1 – Station Area Picture



1-103, Facing North

Photo 2 – Station Area Picture



1-103

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City of Denison Monuments Geodetic Control Station – Page 1

Underwood Drafting & Surveying, Inc. Project No. 11050207	Station Name: Mon #1-104
County: Grayson State: Texas	Established by: Underwood Drafting & Surveying, Inc. Date Established: January 2, 2012
Intervisible Stations: None Units of Measure: US Survey Foot	Survey Method Hor.: GPSOBS ¹ Survey Method Ver.: GPSOBS ¹
Horizontal Datum: NAD83 Horizontal Adj.: CORS96 Projections Zone: SPC 4202 - TXNC	Vertical Datum: NAVD88 Vertical Adjustment: CORS96 Geoid Model Used: GEOID09
Mark Logo: City of Denison Control Monument 3 1/4" brass disk	NGS PID (If applic.): N/A
Stamping: 1-104	Grid Northing: 7349897.9413
Condition: Good	Grid Easting: 2564955.2835
Marker: 5' X 12" Dia. Conc. Mon.	Scale Factor: 0.99996188
Stability: C	Elevation Factor: 0.99997842
Latitude: 33°49'04.29220" N	Combined Factor: 0.99994030
Longitude: 96°32'10.09042" W	Convergence: 01°04'16"
Ellipsoid Height: 451.036	Surface Northing³: 7350493.4300
Elevation²: 537.794	Surface Easting³: 2565163.0962
<u>To Reach Description</u>	
<p>This station is located on the West side of U.S. Highway 69/75 approximately 4.40 miles North of the CityHall building in Denison, Texas.</p> <p>From the intersection of U.S. Highway 75 and State Highway 91; Go Northeast along U.S. Highway 75 2.35 miles to the station on the left. The station is located approx. 250 feet East of the southbound lane of U.S. Highway 75; 78.3 feet Northeast of a light pole and 47.4 feet East of a street sign.</p>	
Notes: <ol style="list-style-type: none"> 1. This station was established by taking two independent dual frequency GPS static observations, 2-hours in length at a 5-second epoch update rate and processed with the rapid ephemeris using NGS Online User Positioning Service (OPUS) software. The position information shown is the average of the two independent observations. 2. The elevation is based on the OPUS calculated ellipsoid height and the GEOID09 geoid height. Local ties to differentially leveled Benchmarks were not made for this survey. 3. Grid Northing *1.00008102 = Surface Northing AND Grid Easting * 1.00008102 = Surface Easting. 	

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Underwood Drafting & Surveying, Inc. Project No. 11050207	Station Name: Mon #1-104
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Station Sketch

Mon. #1-104

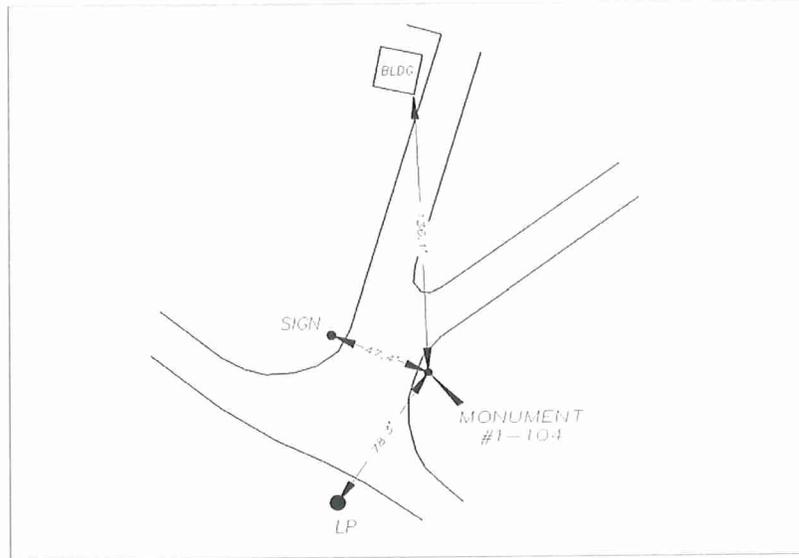


Photo 1 – Station Area Picture



1-104, Facing North

Photo 2 – Station Area Picture



1-104

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City of Denison Monuments Geodetic Control Station – Page 1

Underwood Drafting & Surveying, Inc. Project No. 11050207	Station Name: Mon #1-105
County: Grayson State: Texas	Established by: Underwood Drafting & Surveying, Inc. Date Established: January 2, 2012
Intervisible Stations: None Units of Measure: US Survey Foot	Survey Method Hor.: GPSOBS ¹ Survey Method Ver.: GPSOBS ¹
Horizontal Datum: NAD83 Horizontal Adj.: CORS96 Projections Zone: SPC 4202 - TXNC	Vertical Datum: NAVD88 Vertical Adjustment: CORS96 Geoid Model Used: GEOID09
Mark Logo: City of Denison Control Monument 3 1/4" brass disk	NGS PID (If applic.): N/A
Stamping: 1-105 Condition: Good	Grid Northing: 7346444.9118 Grid Easting: 2536564.0870
Marker: 5' X 12" Dia. Conc. Mon. Stability: C	Scale Factor: 0.99996001 Elevation Factor: 0.99996616
Latitude: 33°48'35.26211" N Longitude: 96°37'47.27290" W	Combined Factor: 0.99992617 Convergence: 01°01'12"
Ellipsoid Height: 707.404 Elevation²: 793.962	Surface Northing³: 7347040.1208 Surface Easting³: 2536769.5994
<u>To Reach Description</u>	
<p>This station is located on the East side of Preston Road approximately 6.35 miles Northwest of the City Hall building in Denison, Texas.</p> <p>From the intersection of F.M. Highway 406 and Preston Road; Go North along Preston Road 0.9 mile to the station on the right. The station is located approx. 560 feet East of Preston Road; 5.8 feet Northwest of a Metal Fence post and 60.0 feet North of the northeast corner of a metal building.</p>	
Notes: <ol style="list-style-type: none"> 1. This station was established by taking two independent dual frequency GPS static observations, 2-hours in length at a 5-second epoch update rate and processed with the rapid ephemeris using NGS Online User Positioning Service (OPUS) software. The position information shown is the average of the two independent observations. 2. The elevation is based on the OPUS calculated ellipsoid height and the GEOID09 geoid height. Local ties to differentially leveled Benchmarks were not made for this survey. 3. Grid Northing *1.00008102 = Surface Northing AND Grid Easting * 1.00008102 = Surface Easting. 	

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<p>Underwood Drafting & Surveying, Inc. Project No. 11050207</p>	<p>Station Name: Mon #1-105</p>
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Station Sketch

Mon. #1-105

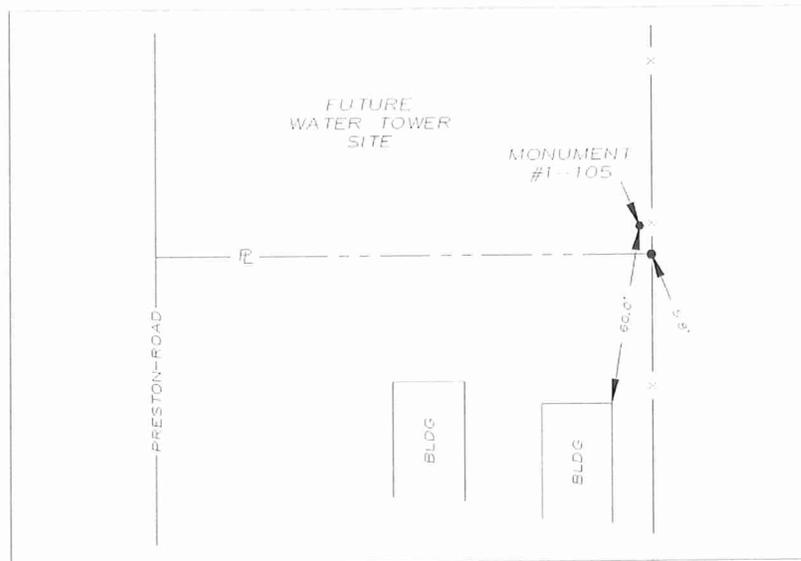


Photo 1 – Station Area Picture



1-105, Facing East

Photo 2 – Station Area Picture



1-105

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City of Denison Monuments Geodetic Control Station – Page 1

Underwood Drafting & Surveying, Inc. Project No. 11050207	Station Name: Waterloo Dam
County: Grayson State: Texas	Established by: Underwood Drafting & Surveying, Inc. Date Established: January 2, 2012
Intervisible Stations: None Units of Measure: US Survey Foot	Survey Method Hor.: GPSOBS ¹ Survey Method Ver.: GPSOBS ¹
Horizontal Datum: NAD83 Horizontal Adj.: CORS96 Projections Zone: SPC 4202 - TXNC	Vertical Datum: NAVD88 Vertical Adjustment: CORS96 Geoid Model Used: GEOID09
Mark Logo: USDA Soil Conservation Service disk	NGS PID (If applic.): N/A
Stamping: Sta. 11+15 PC	Grid Northing: 7321780.5696
Condition: Good	Grid Easting: 2555869.1353
Marker: 12" x 12" Conc. Mon.	Scale Factor: 0.99994487
Stability: C	Elevation Factor: 0.99997048
Latitude: 33°44'27.83766" N	Combined Factor: 0.99991535
Longitude: 96°34'03.89529" W	Convergence: 01°03'14"
Ellipsoid Height: 616.800	Surface Northing³: 7322373.7803
Elevation²: 703.061	Surface Easting³: 2556076.2118
<u>To Reach Description</u>	
<p>This station is located on the top of the earth dam on the East side of Waterloo Lake approximately 1.75 miles Southwest of the City Hall building in Denison, Texas.</p> <p>From the intersection of Waterloo Lake Drive and Crawford Street; Go South along Waterloo Lake Drive 0.6 mile to the station on the right. The station is located approx. 1100 feet South of Waterloo Lake Road on the top of the earth dam.</p>	
Notes: <ol style="list-style-type: none"> 1. This station was established by taking two independent dual frequency GPS static observations, 2-hours in length at a 5-second epoch update rate and processed with the rapid ephemeris using NGS Online User Positioning Service (OPUS) software. The position information shown is the average of the two independent observations. 2. The elevation is based on the OPUS calculated ellipsoid height and the GEOID09 geoid height. Local ties to differentially leveled Benchmarks were not made for this survey. 3. Grid Northing *1.00008102 = Surface Northing AND Grid Easting * 1.00008102 = Surface Easting. 	

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<p>Underwood Drafting & Surveying, Inc. Project No. 11050207</p>	<p>Station Name: Waterloo Dam</p>
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Station Sketch

Waterloo Dam

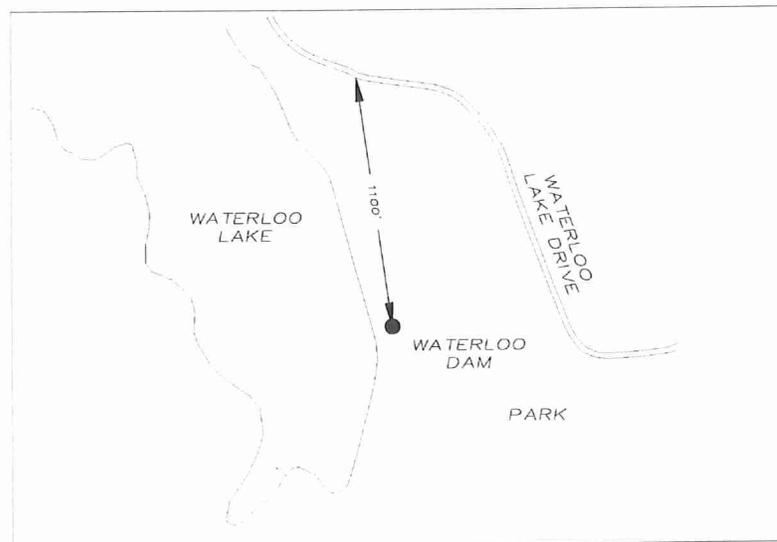


Photo 1 – Station Area Picture



Waterloo Dam, Facing South

Photo 2 – Station Area Picture



Waterloo Dam

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City of Denison Monuments Geodetic Control Station – Page 1

Underwood Drafting & Surveying, Inc. Project No. 11050207	Station Name: Perrin - AB6764
County: Grayson State: Texas	Established by: Underwood Drafting & Surveying, Inc. Date Established: January 2, 2012
Intervisible Stations: None Units of Measure: US Survey Foot	Survey Method Hor.: GPSOBS ¹ Survey Method Ver.: GPSOBS ¹
Horizontal Datum: NAD83 Horizontal Adj.: CORS96 Projections Zone: SPC 4202 - TXNC	Vertical Datum: NAVD88 Vertical Adjustment: CORS96 Geoid Model Used: GEOID09
Mark Logo: National Geodetic Survey Standard Brass disk	NGS PID (If applic.): N/A
Stamping: F39B 1995	Grid Northing: 7310856.9925
Condition: Good	Grid Easting: 2525848.2013
Marker: 5' X 12" Dia. Conc. Mon.	Scale Factor: 0.99993900
Stability: C	Elevation Factor: 0.99996801
Latitude: 33°42'45.10576" N	Combined Factor: 0.99990701
Longitude: 96°40'01.61040" W	Convergence: 00°59'59"
Ellipsoid Height: 668.633	Surface Northing³: 7311449.3181
Elevation²: 754.387	Surface Easting³: 2526052.8455
<u>To Reach Description</u>	
<p>This station is located on the East side of North Texas Regional Airport approximately 7.7 miles Southwest of the City Hall building in Denison, Texas.</p> <p>From the intersection of F.M. Highway 1417 and Grayson Drive; Go West along Grayson Drive 1.0 mile to Airport Road; Go North along Airport Road 0.2 mile to the station on the left. The station is located approx. 335 feet West of Airport Road; 71.1 feet Southwest of the southwest corner of the terminal building and 85.9 feet northwest of the northwest corner of a metal building.</p>	
Notes: <ol style="list-style-type: none"> 1. This station was established by taking two independent dual frequency GPS static observations, 2-hours in length at a 5-second epoch update rate and processed with the rapid ephemeris using NGS Online User Positioning Service (OPUS) software. The position information shown is the average of the two independent observations. 2. The elevation is based on the OPUS calculated ellipsoid height and the GEOID09 geoid height. Local ties to differentially leveled Benchmarks were not made for this survey. 3. Grid Northing *1.00008102 = Surface Northing AND Grid Easting * 1.00008102 = Surface Easting. 	

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<p> Underwood Drafting & Surveying, Inc. Project No. 11050207 </p>	<p> Station Name: Perrin - AB6764 </p>
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Station Sketch

Perrin-AB6764

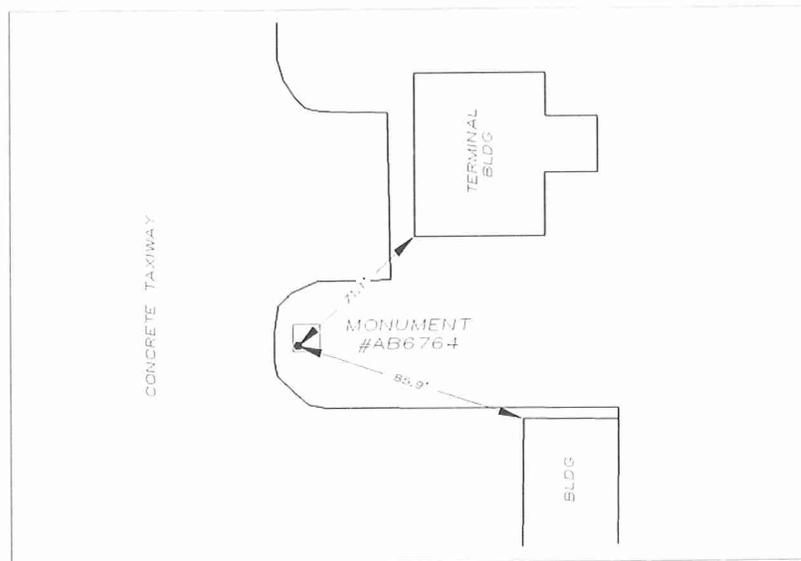


Photo 1 – Station Area Picture



AB6764, Facing East

Photo 2 – Station Area Picture



AB6764

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The NGS Data Sheet – “Perrin-AB6764”

National Geodetic Survey
 AB6764 *****
 AB6764 SACS - This is a Secondary Airport Control Station.
 AB6764 DESIGNATION - F39 B
 AB6764 PID - AB6764
 AB6764 STATE/COUNTY- TX/GRAYSON
 AB6764 USGS QUAD - SHERMAN NW (1974)
 AB6764
 AB6764 *CURRENT SURVEY CONTROL
 AB6764
 AB6764* NAD 83(2007)- 33 42 45.10476(N) 096 40 01.61111(W) ADJUSTED
 AB6764* NAVD 88 - 229.85 (meters) 754.1 (feet) GPS OBS
 AB6764
 AB6764 EPOCH DATE - 2002.00
 AB6764 X - -616,632.963 (meters) COMP
 AB6764 Y - -5,275,274.821 (meters) COMP
 AB6764 Z - 3,520,080.191 (meters) COMP
 AB6764 LAPLACE CORR- -1.39 (seconds) DEFLEC09
 AB6764 ELLIP HEIGHT- 203.802 (meters) (02/10/07) ADJUSTED
 AB6764 GEOID HEIGHT- -26.14 (meters) GEOID09
 AB6764
 AB6764 ----- Accuracy Estimates (at 95% Confidence Level in cm) -----
 AB6764 Type PID Designation North East Ellip
 AB6764 -----
 AB6764 NETWORK AB6764 F39 B 1.00 0.90 1.59
 AB6764 -----
 AB6764
 AB6764.This mark is at Grayson Co (F39) Airport (F39)
 AB6764
 AB6764.The horizontal coordinates were established by GPS observations
 AB6764.and adjusted by the National Geodetic Survey in February 2007.
 AB6764
 AB6764.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).
 AB6764.See [National Readjustment](#) for more information.
 AB6764.The horizontal coordinates are valid at the epoch date displayed above.
 AB6764.The epoch date for horizontal control is a decimal equivalence
 AB6764.of Year/Month/Day.
 AB6764
 AB6764.The orthometric height was determined by GPS observations and a
 AB6764.high-resolution geoid model.
 AB6764
 AB6764.GPS derived orthometric heights for airport stations designated as
 AB6764.PACS or SACS are published to 2 decimal places. This maintains
 AB6764.centimeter relative accuracy between the PACS and SACS. It does
 AB6764.not indicate centimeter accuracy relative to other marks which are
 AB6764.part of the NAVD 88 network.
 AB6764
 AB6764.[Photographs](#) are available for this station.
 AB6764
 AB6764.The X, Y, and Z were computed from the position and the ellipsoidal ht.
 AB6764
 AB6764.The Laplace correction was computed from DEFLEC09 derived deflections.
 AB6764
 AB6764.The ellipsoidal height was determined by GPS observations
 AB6764.and is referenced to NAD 83.
 AB6764
 AB6764.The geoid height was determined by GEOID09.
 AB6764
 AB6764;
 AB6764;SPC TXNC - 2,228,353.637 769,880.054 MT 0.99993900 +0 59 58.7
 AB6764;SPC TXNC - 7,310,856.89 2,525,848.14 sFT 0.99993900 +0 59 58.7
 AB6764;UTM 14 - 3,732,726.065 716,183.067 MT 1.00017619 +1 17 43.1
 AB6764
 AB6764!
 AB6764!SPC TXNC - Elev Factor x Scale Factor = Combined Factor
 AB6764!SPC TXNC - 0.99996801 x 0.99993900 = 0.99990701
 AB6764!UTM 14 - 0.99996801 x 1.00017619 = 1.00014419



City of Denison Monuments Geodetic Control Station – Page 4

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AB6764
AB6764:           Primary Azimuth Mark           Grid Az
AB6764:SPC TXNC   - F39 A                       306 55 40.5
AB6764:UTM 14     - F39 A                       306 37 56.1
AB6764
AB6764|-----|
AB6764| PID      Reference Object                Distance      Geod. Az |
AB6764|          |                               |              | dddmss.s |
AB6764| AB2794 F39 A          484.770 METERS 3075539.2 |
AB6764|-----|
AB6764
AB6764              SUPERSEDED SURVEY CONTROL
AB6764
AB6764 ELLIP H (06/26/01) 203.800 (m)           GP(          ) 5 1
AB6764 NAD 83(1993)- 33 42 45.10459(N) 096 40 01.61104(W) AD(          ) 1
AB6764 ELLIP H (09/11/96) 203.858 (m)           GP(          ) 5 1
AB6764
AB6764.Superseded values are not recommended for survey control.
AB6764.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AB6764.See file dsdata.txt to determine how the superseded data were derived.
AB6764
AB6764_U.S. NATIONAL GRID SPATIAL ADDRESS: 14SQCL1618332726(NAD 83)
AB6764_MARKER: DH = HORIZONTAL CONTROL DISK
AB6764_SETTING: 36 = SET IN A MASSIVE STRUCTURE
AB6764_SP_SET: CONCRETE FOUNDATION OF MANHOLE
AB6764_STAMPING: F39 B 1995
AB6764_MARK LOGO: NGS
AB6764_MAGNETIC: N = NO MAGNETIC MATERIAL
AB6764_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AB6764_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AB6764+SATELLITE: SATELLITE OBSERVATIONS - May 27, 2008
AB6764
AB6764 HISTORY      - Date      Condition      Report By
AB6764 HISTORY      - 1995      MONUMENTED    NGS
AB6764 HISTORY      - 20080527 GOOD              GEOMET
AB6764
AB6764              STATION DESCRIPTION
AB6764
AB6764'DESCRIBED BY NATIONAL GEODETIC SURVEY 1995 (AJL)
AB6764'THE STATION IS LOCATED ABOUT 6 KM (3.70 MI) SOUTHWEST OF DENISON 4 KM
AB6764'(2.50 MI) NORTHWEST OF SHERMAN, AT THE GRAYSON COUNTY AIRPORT, ALONG
AB6764'THE EAST SIDE OF THE APRON, AND JUST SOUTHWEST OF THE TERMINAL AND
AB6764'OFFICE. OWNERSHIP--CITY OF DENISON, 4700 AIRPORT DRIVE, DENISON, TX
AB6764'75020. AIRPORT MANAGER IS DOYLE DOBBINS. PHONE 903-786-2904. TO
AB6764'REACH FROM THE UNDERPASS AT THE JUNCTION OF U.S. HIGHWAY 75 AND FARM
AB6764'ROAD 691 ABOUT 3 KM (1.85 MI) NORTHEAST OF SHERMAN, GO WEST-NORTHWEST
AB6764'ON FARM ROAD 691 FOR 5.97 KM (3.70 MI) TO A PAVED CROSSROAD (FARM ROAD
AB6764'1417) . CONTINUE AHEAD, WEST, ON FARM ROAD 691 FOR 1.36 KM (0.85 MI)
AB6764'TO A CROSSROAD AT A FLAGPOLE AND WATER TOWER ON THE LEFT. TURN RIGHT,
AB6764'NORTHWEST, ON KING STREET FOR 0.37 KM (0.20 MI) TO GOSNELL ROAD. BEAR
AB6764'LEFT, WEST, TO A GATE AT THE APRON. CONTINUE AHEAD, WEST, PASSING
AB6764'THROUGH THE GATE TO THE APRON. TURN RIGHT, NORTH, ON APRON AND FOR
AB6764'0.05 KM (0.05 MI) TO THE STATION ON THE RIGHT. STATION IS SET FLUSH
AB6764'IN THE SOUTHWEST CORNER OF A MANHOLE FOUNDATION. IT IS 29.0 M (95.1
AB6764'FT) WEST-NORTHWEST OF THE NORTHWEST CORNER OF A FIRE STATION BUILDING,
AB6764'21.6 M (70.9 FT) SOUTHWEST OF THE SOUTHWEST CORNER OF THE TERMINAL
AB6764'BUILDING, 6.5 M (21.3 FT) WEST OF THE SOUTHWEST CORNER OF A STORM
AB6764'DRAIN, AND 0.3 M (1.0 FT) NORTH OF A PLASTIC WITNESS POST. DESCRIBED
AB6764'BY D.G. AUG
AB6764
AB6764              STATION RECOVERY (2008)
AB6764
AB6764'RECOVERY NOTE BY GEOMETRICS GPS INCORPORATED 2008 (DG)
AB6764'RECOVERED IN GOOD CONDITION AS DESCRIBED

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