

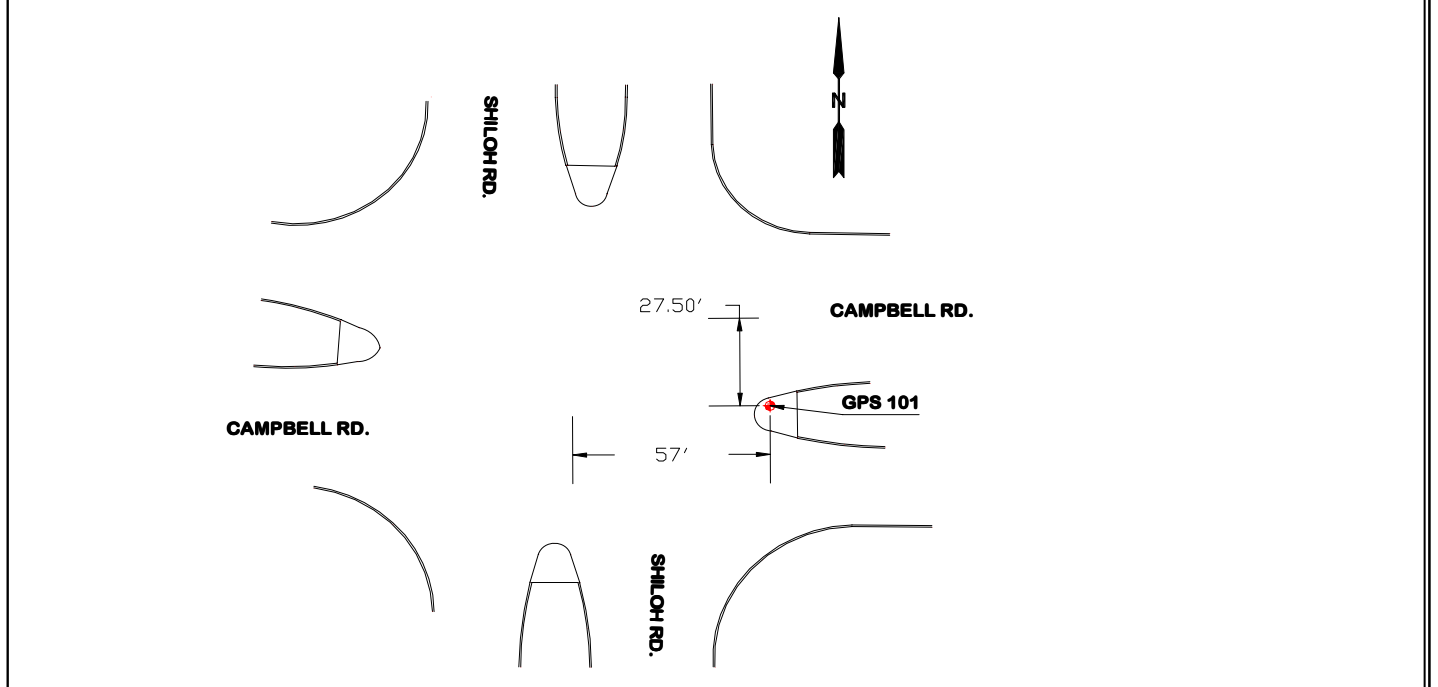
## GPS Station Observation Log

Station Designation ( Check applicable: <input checked="" type="checkbox"/> GEO. CNTRL. <input type="checkbox"/> Trav. PT. <input type="checkbox"/> BM )		Station PID, if any: GPS 101	DATE: 8/2/2005
Project Name: <b>Geodetic Monument</b>		Project Number: <b>GPS- 101</b>	
NAD83 Latitude: 32 58 30.81228	NAD83 Longitude: 96 39 54.55612	Stat.4-Char ID: _____	Day of Year: _____
Observation Session Time		Session ID: (A,B,C,etc.)	
Sched. Start: _____ Stop: _____		Agency Full Name: <b>City of Garland</b>	
Actual Start: <b>7:22 AM</b> Stop: <b>11:50 PM</b>		Operator Full Name: Toney E. Gibson	
Epoch Interval = <b>5 Seconds</b>		Phone# (972) 205 - 2157	
Elevation Mask = _____ Degrees		E-mail: gbreysac@ci.garland.tx.us	

Receiver Brand & Model: Topcon Hiper Lite-Internal Antenna		4HRS STATIC DATA RECORDED.	
Base: <input checked="" type="checkbox"/>	Rover:	NOTE: ELEV. IS ORTHO HT. CALC. BY OPUS.	
P/N:01-840802-03	P/N:01-840802-03		
S/N: 263-0243	S/N: 263-0233		
ID:8QATEMNVCHS	ID:8OKPW2V2RR4		

** ANTENNA HEIGHT **	<b>Meters</b>	<b>Feet</b>	<b>NAD83 TXNC (4202)</b>
Slant Height to ARP:	1.729	5.675	N = 7042647.67321 E = 2531129.12080
Vertical Height to ARP:			Z = 561.61961 CSF = 0.99985071
Meters = Feet x (0.3048) Height Entered into receiver = <u>1.6962 Meters.</u>	Note: &/or sketch <b>ANY</b> unusual conditions. be <b>Very Explicit</b> as to where and how <b>Measured</b> .		

LOG Checked By:	Data File Name(s):	(standard NGS Format = aaaadds.xxx) aaa=4 character ID, ddd=Day of Year,
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GPS 101, 2" BRASS DISK STAMPED 101, LOCATED @ CAMPBELL RD & SHILOH RD INT. ON CAMPBELL RD E. MEDIAN NOSE APPROX. 27.5' S. OF W. BOUND CAMPBELL RD C/L & APPROX. 57' E. OF CAMPBELL & SHILOH RD INT. C/L. \*\*\*COG MAP GRID B-5\*\*\*MAPSCO 9-S\*\*\*

### Table of Weather

Problem	Visibility	Temperature	Cloud Cover	Wind
NONE	GOOD	75°	P/CLOUDY	5 - 10 MPH
Any obstructions above 10° ?		( Y / N )	Radio Interference source nearby ? ( Y / N )	

RPLS: GSB P.Chief: TG Field Tech: KW Field Tech: CW

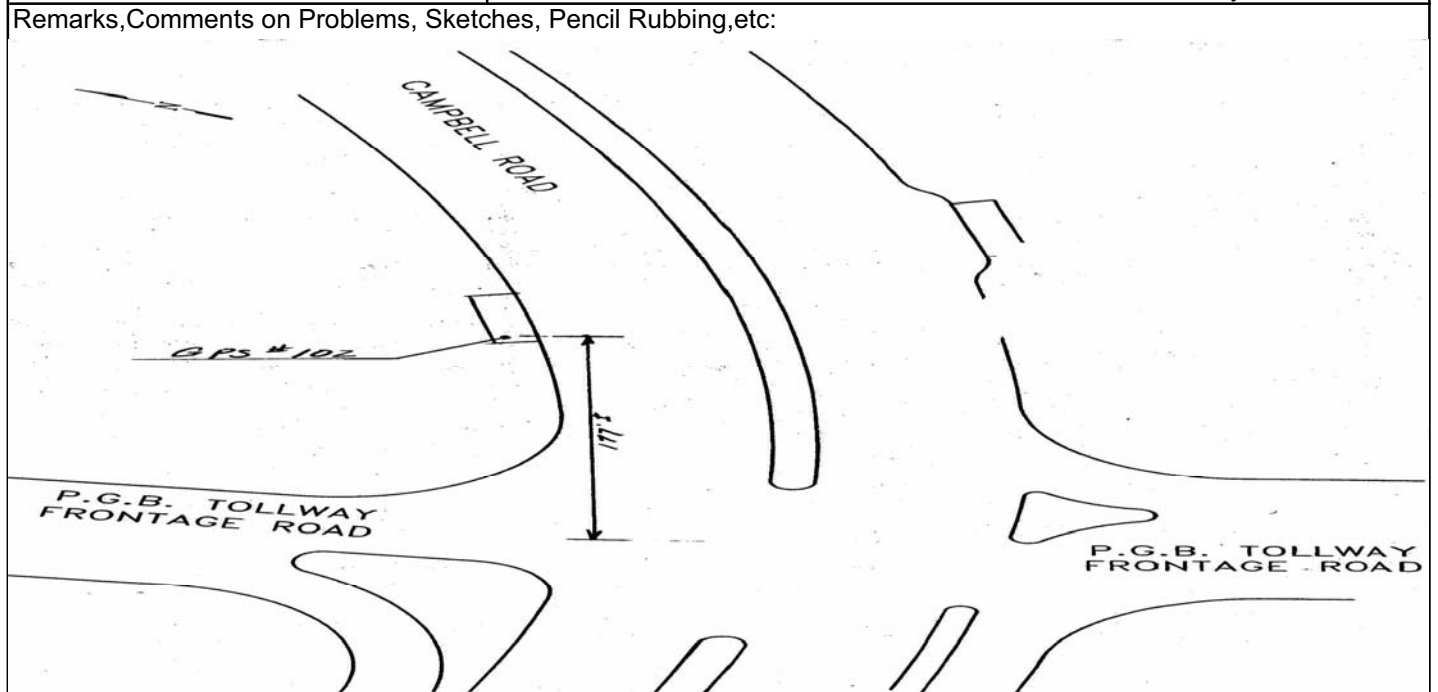
## GPS Station Observation Log

Station Designation ( Check applicable: <input checked="" type="checkbox"/> GEO. CNTRL. <input type="checkbox"/> Trav. PT. <input type="checkbox"/> BM )		Station PID, if any: GPS 102	DATE: 6/1/2005
Project Name: <b>Geodetic Monument</b>		Project Number: <b>GPS- 102</b>	
NAD83 Latitude: 32 58 31.20524		NAD83 Longitude: 96 39 20.24602	
Observation Session Time		151.735 ft./meters	
Sched. Start: _____ Stop: _____		NAVD88 Orthometric Height	
Actual Start: 9:38 AM Stop: 1:42 PM		177.637 ft./meters	
Epoch Interval = 5 Seconds		GEOID03 Geoid Height	
Elevation Mask = _____ Degrees		ft./meters	

Receiver Brand & Model: Topcon Hiper Lite-Internal Antenna		Comments: 4HRS. STATIC DATA RECORDED.	
Base: <input checked="" type="checkbox"/>		Rover:	
P/N: 01-840802-03		P/N: 01-840802-03	
S/N: 263-0243		S/N: 263-0233	
ID: 8QATEMNVCHS		ID: 8OKPW2V2RR4	

** ANTENNA HEIGHT **		Meters	Feet	<b>NAD83 TXNC (4202)</b>
Slant Height to ARP:		1.674	5.49	N = 7042738.54901
Vertical Height to ARP:				E = 2534050.55525
Meters = Feet x (0.3048)		Note: &/or sketch <b>ANY</b> unusual conditions. be <b>Very Explicit</b> as to where and how <b>Measured</b> .		
Height Entered into receiver = 1.640 Meters.		Z = 582.79739		
		CSF =		

LOG Checked By:	Data File Name(s):	(standard NGS Format = aaaadds.xxx) aaa=4 character ID, ddd=Day of Year,
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GPS 102, 2" BRASS DISK IS LOCATED ON INLET TOP APPROX. 177' N.W. OF THE INT. OF CAMPBELL RD. AND W. BOUND 190 FRONTAGE RD.  
 \*\*\*COG MAP GRID B5-6\*\*\*MAPSCO 9-T\*\*\*

### Table of Weather

Problem	Visibility	Temperature	Cloud Cover	Wind
NONE	GOOD	75°	CLEAR	5 - 10 MPH
Any obstructions above 10° ?		( Y / N )	Radio Interference source nearby ?	
			( Y / N )	

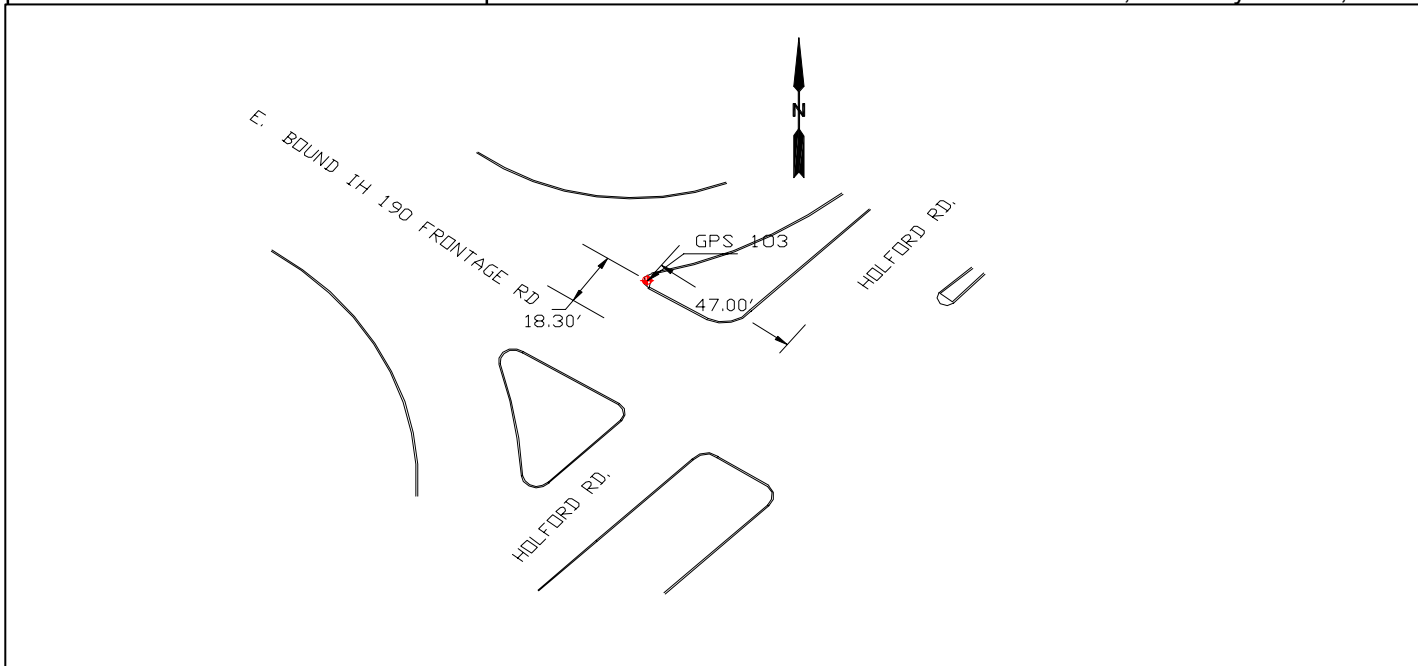
RPLS: GSB P.Chief: TG Field Tech: KW Field Tech: CW

## GPS Station Observation Log

Station Designation ( Check applicable: <input checked="" type="checkbox"/> GEO. CNTRL. <input type="checkbox"/> Trav. PT. <input type="checkbox"/> BM )		Station PID, if any: GPS 103	DATE: 12/18/2005
Project Name: <b>Geodetic Monument</b>	Project Number: <b>GPS- 103</b>	Stat. 4-Char ID: _____	Day of Year: _____
NAD83 Latitude: 32 58 12.11457	NAD83 Longitude: 96 38 57.77972	Session ID: (A,B,C,etc.)	
Observation Session Time		147.125	ft./meters
Sched. Start: _____ Stop: _____	NAVD88 Orthometric Height	Operator Full Name: Toney E. Gibson	
Actual Start: <u>7:57 AM</u> Stop: <u>12:00 PM</u>	173.011	ft./meters	
Epoch Interval = <u>10</u> Seconds	GEOID03 Geoid Height	Phone# (972) 205 - 2157	
Elevation Mask = _____ Degrees	ft./meters	E-mail: gbreysac@ci.garland.tx.us	

Receiver Brand & Model: Topcon Hiper Lite-Internal Antenna		Comments: 4HRS STATIC DATA RECORDED.
Base: <input checked="" type="checkbox"/>	Rover:	NOTE: ELEV. 567.62 IS ORTHO HT. CALC. BY OPUS.
P/N: 01-840802-03	P/N: 01-840802-03	*LEVEL LOOP ELEV. 567.74 FROM NGSCS 1337
S/N: 263-0243	S/N: 263-0233	
ID: 8QATEMNVCHS	ID: 8OKPW2V2RR4	

** ANTENNA HEIGHT **		<b>Meters</b>	<b>Feet</b>	<b>NAD83 TXNC (4202)</b>
Slant Height to ARP:			5.44	N = 7040843.22472
Vertical Height to ARP:				E = 2535997.94309
Meters = Feet x (0.3048)		Note: &/or sketch <b>ANY</b> unusual conditions. be <b>Very Explicit</b> as to where and how <b>Measured</b> .		
Height Entered into receiver = <b>1.6246 Meters.</b>				
LOG Checked By:	Data File Name(s):	(standard NGS Format = aaaaddds.xxx) aaa=4 character ID, ddd=Day of Year,		



GPS 103, 2" BRASS DISK STAMPED #103 LOCATED ON MEDIAN NOSE @ HOLFORD RD & IH 190 FRONTAGE RD TURNAROUND LANE, APPROX. 47' N.W. OF HOLFORD RD S. BOUND LANE C/L, AND APPROX. 18.30' N.E. BOUND IH 190 FRONTAGE RD C/L.

\*\*\*COG MAP GRID B-6\*\*\*MAPSCO 9-U\*\*\*

Table of Weather				
Problem	Visibility	Temperature	Cloud Cover	Wind
NONE	GOOD	21°	P/CLOUDY	10 - 15 MPH
Any obstructions above 10° ?		( Y / N )	Radio Interference source nearby ? ( Y / N )	
RPLS: <u>GSB</u>	P.Chief: <u>TG</u>	Field Tech: <u>KW</u>	Field Tech: <u>CW</u>	

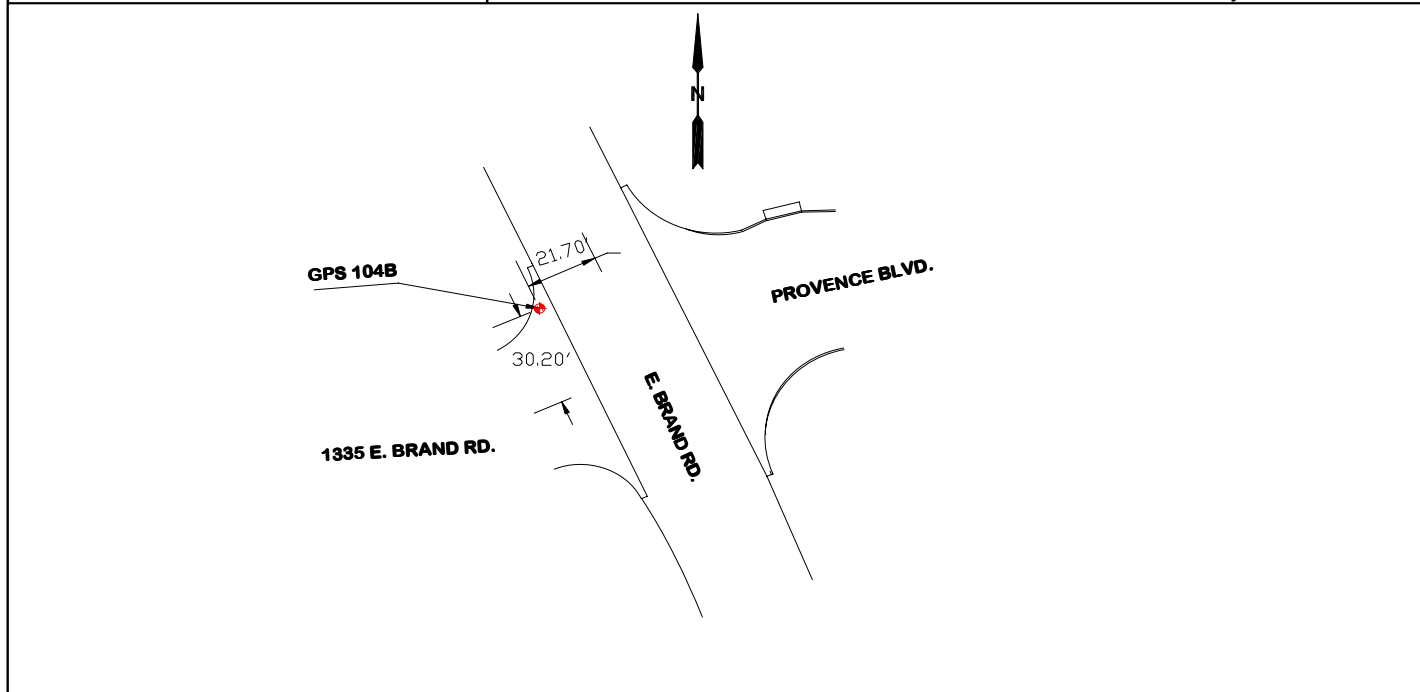
## GPS Station Observation Log

Station Designation ( Check applicable: <input checked="" type="checkbox"/> GEO. CNTRL. <input type="checkbox"/> Trav. PT. <input type="checkbox"/> BM )		Station PID, if any: GPS 104B	DATE: 12/12/2005
Project Name: <b>Geodetic Monument</b>		Project Number: <b>GPS- 104B</b>	
NAD83 Latitude: 32 58 05.55636	NAD83 Longitude: 96 37 12.72174	Stat.4-Char ID: _____	Day of Year: _____
Observation Session Time		124.579   ft./meters	
Sched. Start: _____ Stop: _____		NAVD88 Orthometric Height	
Actual Start: 9:45 AM Stop: 2:00 PM		150.379   ft./meters	
Epoch Interval = 10 Seconds		GEOID03 Geoid Height	
Elevation Mask = _____ Degrees		ft./meters	
Receiver Brand & Model: Topcon Hiper Lite-Internal Antenna		Comments: 4HRS STATIC DATA RECORDED.	

Base:	Rover: <u>X</u>	NOTE: ELEV. IS ORTHO HT. CALC. BY OPUS.
P/N: 01-840802-03	P/N: 01-840802-03	
S/N: 263-0243	S/N: 263-0233	
ID: 8QATEMNVCHS	ID: 8OKPW2V2RR4	

** ANTENNA HEIGHT **	<b>Meters</b>	<b>Feet</b>	<b>NAD83 TXNC (4202)</b>
Slant Height to ARP:	1.568	5.145	N = 7040339.45276
Vertical Height to ARP:			E = 2544957.84971
			Z = 493.36844
			CSF = 0.99985412
Meters = Feet x (0.3048) Height Entered into receiver = 1.5347 Meters.	Note: &/or sketch <b>ANY</b> unusual conditions. be <b>Very Explicit</b> as to where and how <b>Measured</b> .		

LOG Checked By:	Data File Name(s):	(standard NGS Format = aaaadds.xxx) aaa=4 character ID, ddd=Day of Year,
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GPS 104B, 2" BRASS DISK STAMPED 104B IS LOCATED IN THE N. COR. OF THE S. DRIVE ENTRANCE TO THE 1535 BRAND RD. APPROX. 21.70' S.W. OF THE C/L OF BRAND RD & APPROX. 30' N. OF THE C/L OF THE SOUTH DRIVEWAY ENTRANCE. \*\*\*COG MAP GRID B-8\*\*\*MAPSCO 9A-T\*\*\*

### Table of Weather

Problem	Visibility	Temperature	Cloud Cover	Wind
NONE	GOOD	45°	CLOUDY	0 MPH
Any obstructions above 10° ?		( Y / N )	Radio Interference source nearby ? ( Y / N )	

RPLS: GSB P.Chief: TG Field Tech: KW Field Tech: CW

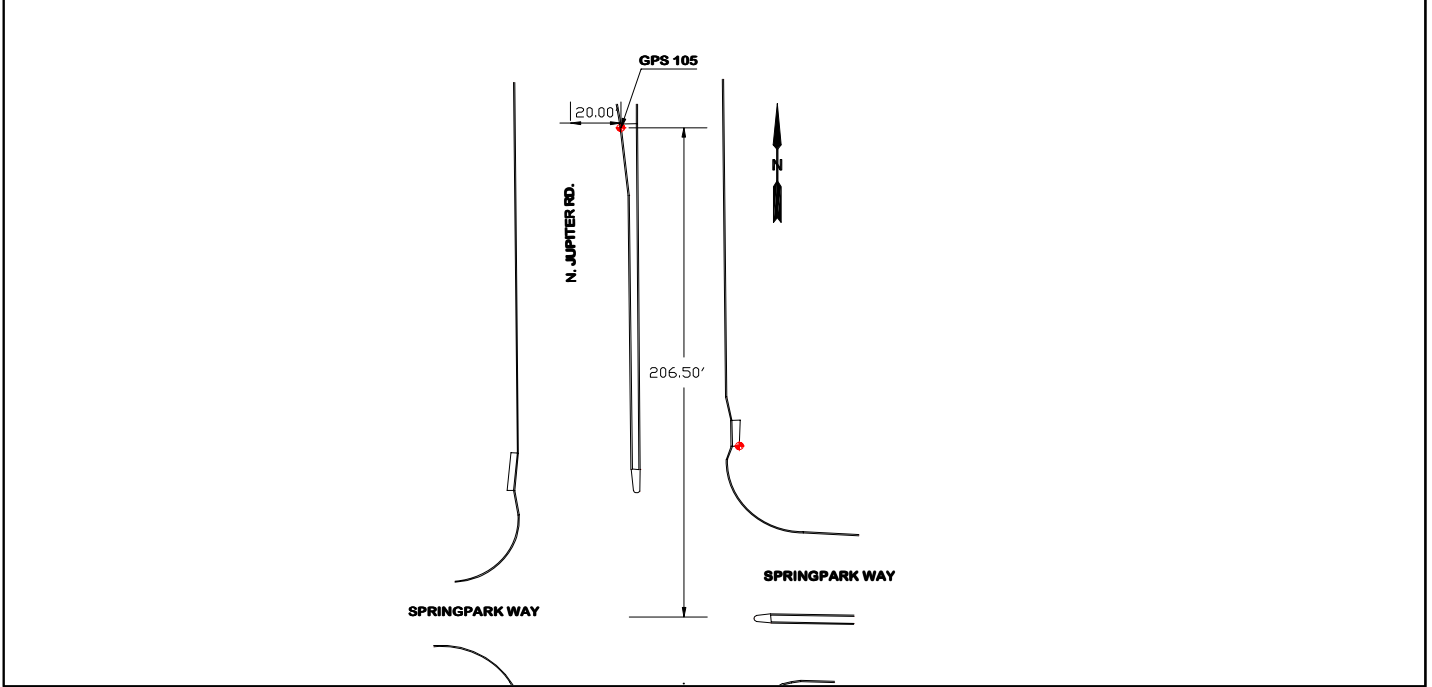
## GPS Station Observation Log

Station Designation ( Check applicable: <input checked="" type="checkbox"/> GEO. CNTRL. <input type="checkbox"/> Trav. PT. <input type="checkbox"/> BM )		Station PID, if any: GPS 105	DATE: 7/8/2004
Project Name: <b>Geodetic Monument</b>		Project Number: <b>GPS- 105</b>	
NAD83 Latitude: 32 58 58.37887		NAD83 Longitude: 96 40 56.64851	
Observation Session Time		149.615 ft./meters	
Sched. Start: _____ Stop: _____		NAVD88 Orthometric Height	
Actual Start: 9:35 AM Stop: 1:42 PM		175.597 ft./meters	
Epoch Interval = 5 Seconds		GEOID03 Geoid Height	
Elevation Mask = _____ Degrees		ft./meters	

Receiver Brand & Model: Topcon Hiper Lite-Internal Antenna		Comments: 4HRS STATIC DATA RECORDED.
Base: <input checked="" type="checkbox"/>	Rover:	NOTE: ELEV. IS ORTHO HT. CALC. BY OPUS.
P/N: 01-840802-03	P/N: 01-840802-03	
S/N: 263-0243	S/N: 263-0233	
ID: 8QATEMNVCHS	ID: 8OKPW2V2RR4	

** ANTENNA HEIGHT **	<b>Meters</b>	<b>Feet</b>	<b>NAD83 TXNC (4202)</b>
Slant Height to ARP:	1.640	5.38	N = 7045341.16191
Vertical Height to ARP:			E = 2525792.64854
			Z = 576.10449
			CSF = 0.99984985
Meters = Feet x (0.3048) Height Entered into receiver = 1.606 Meters.	Note: &/or sketch <b>ANY</b> unusual conditions. be <b>Very Explicit</b> as to where and how <b>Measured</b> .		

LOG Checked By:	Data File Name(s):	(standard NGS Format = aaaadds.xxx) aaa=4 character ID, ddd=Day of Year,
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GPS 105, 2" BRASS DISK STAMPED 105 LOCATED ON B.C. OF MEDIAN ON THE S. BOUND SIDE OF JUPITER RD APPROX. 20' E. OF THE C/L OF S. BOUND JUPITER RD & APPROX. 206' N. OF THE C/L OF JUPITER RD & SPRINGPARK WAY INT. \*\*\*COG MAP GRID A-3&4\*\*\*MAPSCO 8-Q\*\*\*

### Table of Weather

Problem	Visibility	Temperature	Cloud Cover	Wind
NONE	GOOD	80°	P/CLOUDY	5 - 10 MPH
Any obstructions above 10° ? ( Y / N )		Radio Interference source nearby ? ( Y / N )		

RPLS: GSB P.Chief: TG Field Tech: KW Field Tech: CW

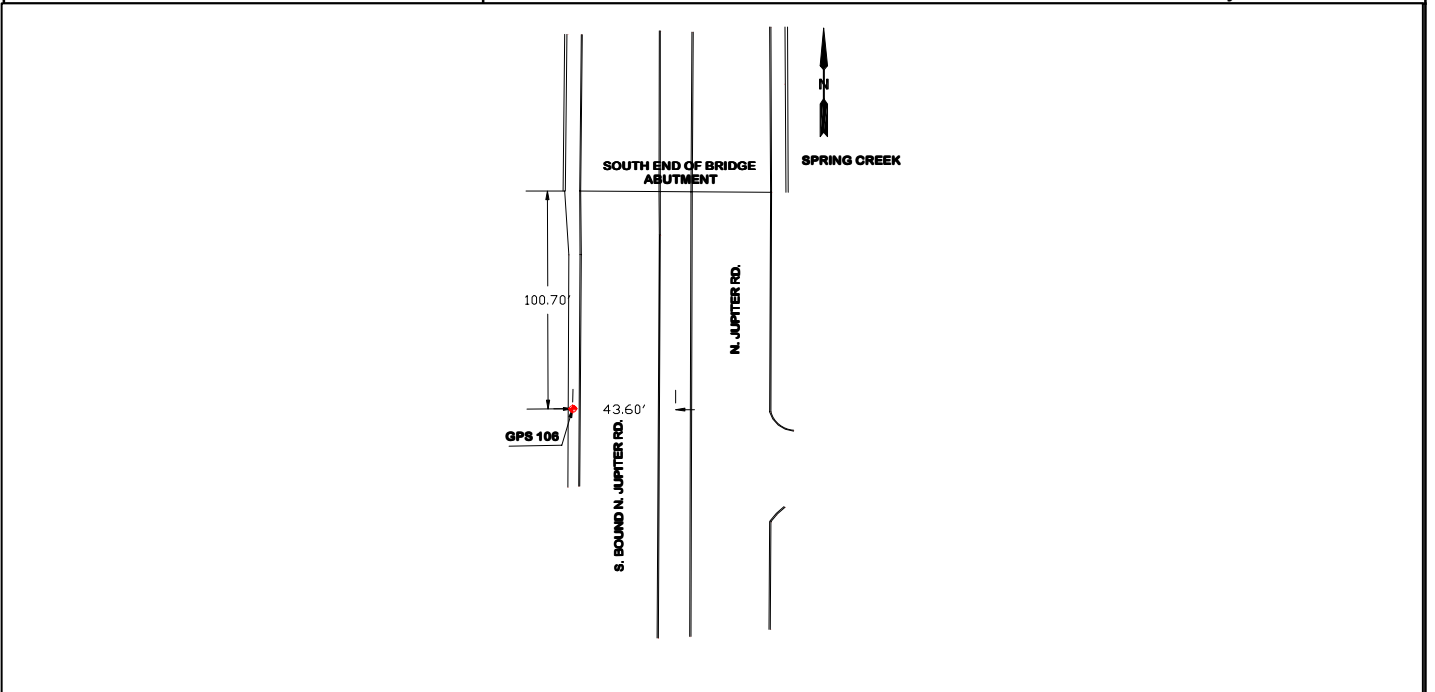
## GPS Station Observation Log

Station Designation ( Check applicable: <input checked="" type="checkbox"/> GEO. CNTRL. <input type="checkbox"/> Trav. PT. <input type="checkbox"/> BM )		Station PID, if any: GPS 106	DATE: 2/26/2004
Project Name: <b>Geodetic Monument</b>		Project Number: <b>GPS-106</b>	
NAD83 Latitude: 32 58 42.55977		NAD83 Longitude: 96 40 57.45883	
Observation Session Time		143.782 ft./meters	
Sched. Start: _____ Stop: _____		NAVD88 Orthometric Height	
Actual Start: 9:30 AM Stop: 2:00 PM		169.767 ft./meters	
Epoch Interval = 5 Seconds		GEOID03 Geoid Height	
Elevation Mask = _____ Degrees		ft./meters	
Receiver Brand & Model: Topcon Hiper Lite-Internal Antenna		Comments: 4HRS. 30MIN. STATIC DATA RECORDED.	

Base:	Rover: <u>X</u>	NOTE: ELEV. 556.977 IS ORTHO HT. CALC. BY OPUS.
P/N: 01-840802-03	P/N: 01-840802-03	
S/N: 263-0243	S/N: 263-0233	
ID: 8QATEMNVCHS	ID: 8OKPW2V2RR4	

** ANTENNA HEIGHT **		Meters	Feet	<b>NAD83 TXNC (4202)</b>
Slant Height to ARP:		1.640 m	5.38	N = 7043741.54569
Vertical Height to ARP:				E = 2525751.29691
Meters = Feet x (0.3048)				Z = 556.97723
Height Entered into receiver = 1.606 Meters.				CSF =
		Note: &/or sketch <b>ANY</b> unusual conditions. be <b>Very Explicit</b> as to where and how <b>Measured</b> .		

LOG Checked By:	Data File Name(s):	(standard NGS Format = aaaadds.xxx) aaa=4 character ID, ddd=Day of Year,
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GPS 106, 2" BRASS DISK STAMPED 106 LOCATED APPROX. 100' S. OF SOUTH END OF THE BRIDGE OVER SPRING CREEK ON JUPITER RD AND APPROX. 43' WEST OF JUPITER RD. C/L.  
 \*\*\*COG MAP GRID A-3\*\*\*MAPSCO 8-Q\*\*\*

### Table of Weather

Problem	Visibility	Temperature	Cloud Cover	Wind
NONE	GOOD	60°	CLEAR	5 - 10 MPH
Any obstructions above 10° ?		( Y / N )	Radio Interference source nearby ?	( Y / N )

RPLS: GSB P.Chief: TG Field Tech: KW Field Tech: CW

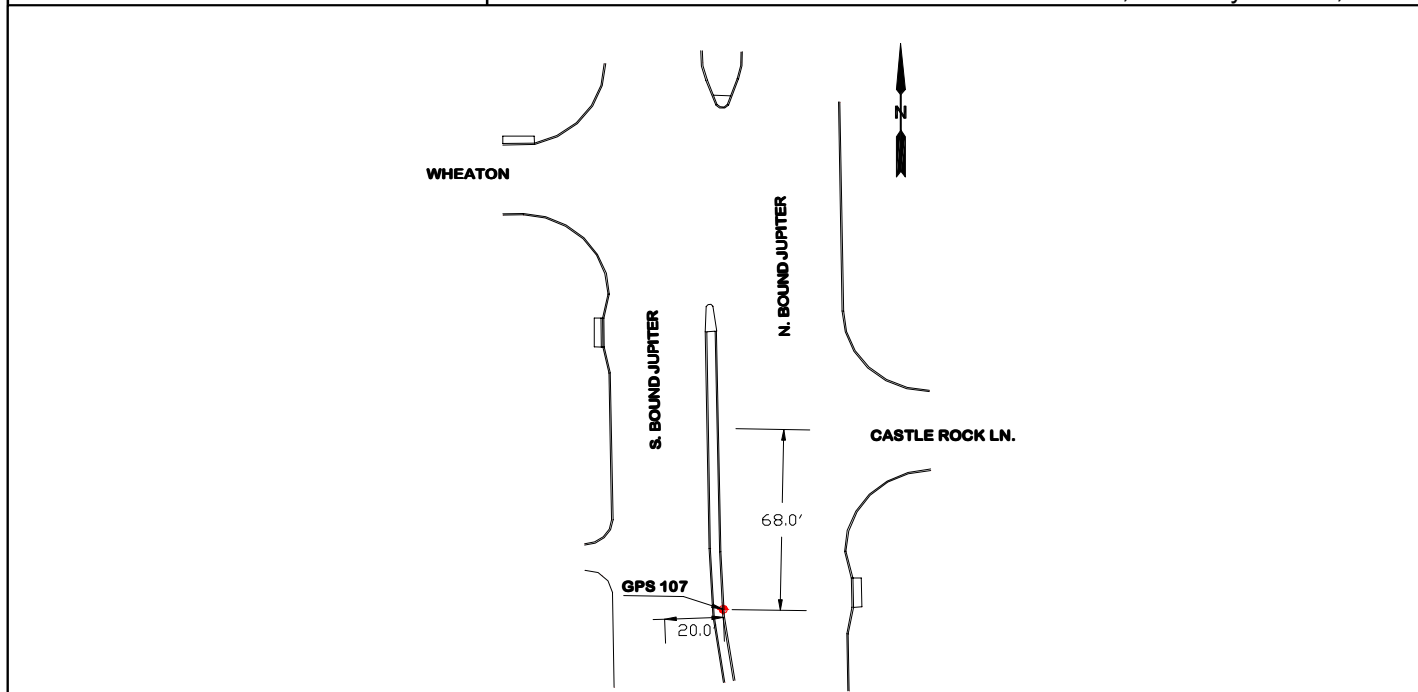
## GPS Station Observation Log

Station Designation ( Check applicable: <input checked="" type="checkbox"/> GEO. CNTRL. <input type="checkbox"/> Trav. PT. <input type="checkbox"/> BM )		Station PID, if any: GPS 107	DATE: 7/13/2004
Project Name: <b>Geodetic Monument</b>		Project Number: <b>GPS- 107</b>	
NAD83 Latitude: 32 57 54.07151		NAD83 Longitude: 96 40 57.53965	
Observation Session Time		154.642 ft./meters	
Sched. Start: _____ Stop: _____		NAVD88 Orthometric Height	
Actual Start: 9:38 AM Stop: 1:45 PM		180.633 ft./meters	
Epoch Interval = 5 Seconds		GEOID03 Geoid Height	
Elevation Mask = _____ Degrees		ft./meters	
Receiver Brand & Model: Topcon Hiper Lite-Internal Antenna		Comments: 4HRS STATIC DATA RECORDED.	

Base:	Rover: <input checked="" type="checkbox"/>	NOTE: ELEV. IS ORTHO HT. CALC. BY OPUS.
P/N:01-840802-03	P/N:01-840802-03	
S/N: 263-0243	S/N: 263-0233	
ID:8QATEMNVCHS	ID:8OKPW2V2RR4	

** ANTENNA HEIGHT **	Meters	Feet	<b>NAD83 TXNC (4202)</b>
Slant Height to ARP:	1.625	5.33	N = 7038841.99840
Vertical Height to ARP:			E = 2525829.18062
			Z = 592.63005
			CSF = 0.99984948
Meters = Feet x (0.3048) Height Entered into receiver = 1.591 Meters.	Note: &/or sketch <b>ANY</b> unusual conditions. be <b>Very Explicit</b> as to where and how <b>Measured</b> .		

LOG Checked By:	Data File Name(s):	(standard NGS Format = aaaadds.xxx) aaa=4 character ID, ddd=Day of Year,
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GPS 107. 2" BRASS DISK STAMPED 107 LOCATED ON B.C. OF MEDIAN ON JUPITER RD. APPROX. 68' S. OF THE C/L OF JUPITER RD & CASTLE ROCK INT. & APPROX. 20' E. OF THE C/L OF S. BOUND JUPITER RD.

\*\*\*COG MAP GRID C-3&4\*\*\*MAPSCO 8-Y\*\*\*

### Table of Weather

Problem	Visibility	Temperature	Cloud Cover	Wind
NONE	GOOD	85°	CLEAR	5 - 10 MPH
Any obstructions above 10° ?		( Y / N )	Radio Interference source nearby ? ( Y / N )	

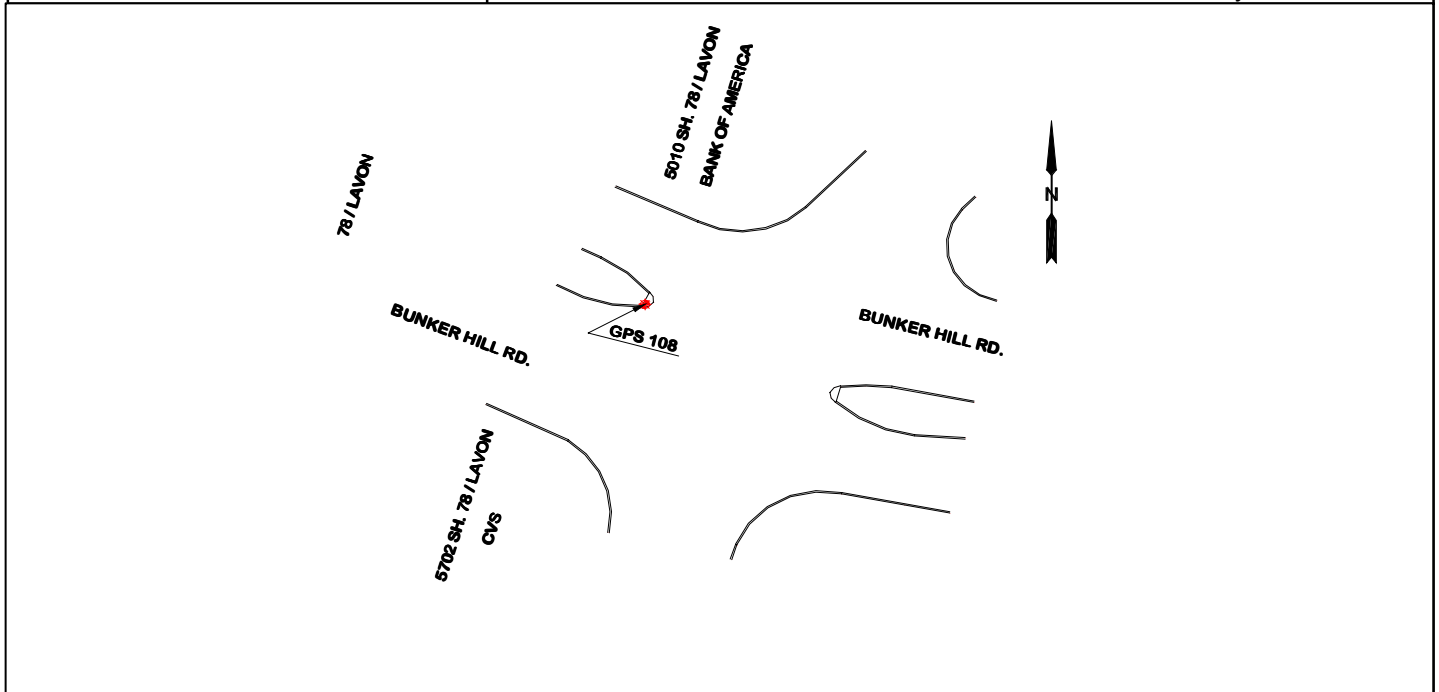
RPLS: GSB P.Chief: TG Field Tech: KW Field Tech: CW

## GPS Station Observation Log

Station Designation	Check applicable: <input checked="" type="checkbox"/> GEO. CNTRL. <input type="checkbox"/> Trav. PT. <input type="checkbox"/> BM	Station PID, if any:	DATE:
		GPS 108	8/21/2006
Project Name: <b>Geodetic Monument</b>	Project Number: <b>GPS-108</b>	Stat. 4-Char ID: _____	Day of Year: _____
NAD83 Latitude: 32 58 05.48829	NAD83 Longitude: 96 36 22.96340	Session ID: (A,B,C,etc.)	
Observation Session Time		132.702	ft./meters
Sched. Start: _____ Stop: _____	NAVD88 Orthometric Height	Operator Full Name: Toney E. Gibson	
Actual Start: 10:02 AM Stop: 3:00 PM	158.463	Phone# (972) 205 - 2157	
Epoch Interval = 5 Seconds	GEOID03 Geoid Height	E-mail: gbreysac@ci.garland.tx.us	
Elevation Mask = _____ Degrees	ft./meters		
Receiver Brand & Model: Topcon Hiper Lite-Internal Antenna		Comments: 5 HRS. STATIC DATA RECORDED.	
<input checked="" type="checkbox"/> Base	<input type="checkbox"/> Rover	NOTE: ELEV. 519.89 IS ORTHO HT. CALC. BY OPUS.	
P/N: 01-840802-03	P/N: 01-840802-03	* LEVEL LOOP ELEV. FROM NGSCS 1337. ELEV. 519.91	
S/N: 263-0243	S/N: 263-0233		
ID: 8QATEMNVCHS	ID: 8OKPW2V2RR4		

** ANTENNA HEIGHT **	Meters	Feet	NAD83 TXNC (4202)
Slant Height to ARP:	1.537	5.04	N = 7040408.698
		4.93	E = 2549196.086
Vertical Height to ARP:			Z = 519.91*
			CSF = 0.99985285
Meters = Feet x (0.3048) Height Entered into receiver : 1.502664 Meters.	Note: &/or sketch <b>ANY</b> unusual conditions. be <b>Very Explicit</b> as to where and how <b>Measured</b> .		

LOG Checked By:	Data File Name(s):	(standard NGS Format = aaaaddds.xxx) aaa=4 character ID, ddd=Day of Year,
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GPS 108, 2" BRASS DISK STAMPED 108, LOCATED IN C/L OF CONC. MEDIAN NOSE ON BUNKER HILL RD APPROX. 300' E. OF (LAVON DR) SH 78 & BUNKER HILL RD C/L INT. BETWEEN 5702 (LAVON DR) SH 78 & 5010 (LAVON DR) SH 78. \*\*\*COG MAP GRID B-9\*\*\*MAPSCO 9A-U\*\*\*

### Table of Weather

Problem	Visibility	Temperature	Cloud Cover	Wind
NONE	GOOD	86°	CLEAR	5 - 10 MPH
Any obstructions above 10° ? <input type="checkbox"/> YES <input type="checkbox"/> NO		Radio Interference source nearby ?		<input type="checkbox"/> YES <input type="checkbox"/> NO

RPLS: GSB P.Chief: TG Field Tech: KW Field Tech: CW



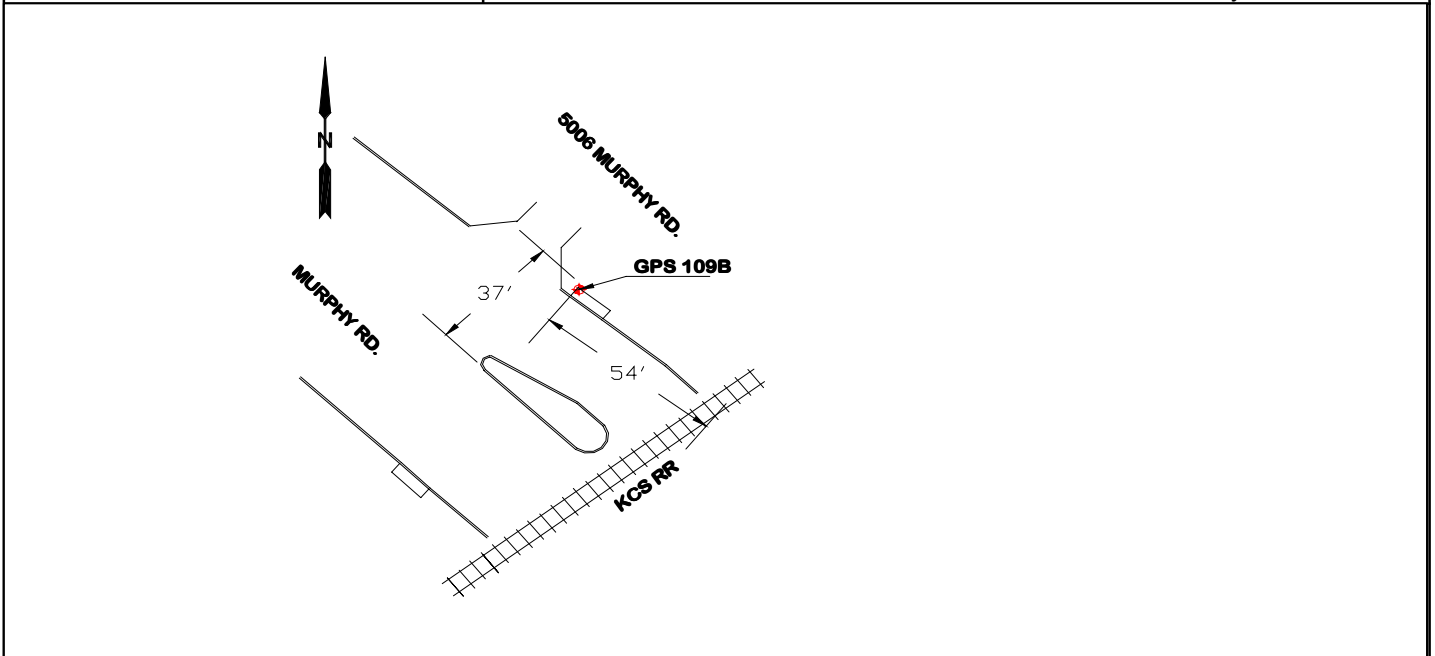
## GPS Station Observation Log

Station Designation	Check applicable: <input checked="" type="checkbox"/> GEO. CNTRL. <input type="checkbox"/> Trav. PT. <input type="checkbox"/> BM	Station PID, if any:	DATE:
		GPS 109B	3/13/2007
Project Name: <b>Geodetic Monument</b>	Project Number: <b>GPS-109B</b>	Stat. 4-Char ID: _____	Day of Year: _____
NAD83 Latitude: 32 58 08.99606	NAD83 Longitude: 96 36 26.80928	Session ID: (A,B,C,etc.)	
Observation Session Time		Agency Full Name: <b>City of Garland</b>	
Sched. Start: _____ Stop: _____		Operator Full Name: Toney E. Gibson	
Actual Start: <b>11:15 AM</b> Stop: <b>3:20 PM</b>		Phone# (972) 205 - 2157	
Epoch Interval = <u>10</u> Seconds		E-mail: gbreysac@ci.garland.tx.us	
Elevation Mask = _____ Degrees		ft./meters	

Receiver Brand & Model: Topcon Hiper Lite-Internal Antenna		Comments: 4 HRS. STATIC DATA RECORDED.
<input checked="" type="checkbox"/> Base	<input type="checkbox"/> Rover	NOTE: ELEV. 523.93 IS ORTHO HT. CALC. BY OPUS.
P/N: 01-840802-03	P/N: 01-840802-03	*LEVEL LOOP ELEV. FROM NGSCS 1337. ELEV 523.97
S/N: 263-0243	S/N: 263-0233	
ID: 8QATEMNVCHS	ID: 8OKPW2V2RR4	

** ANTENNA HEIGHT **	Meters	Feet	NAD83 TXNC (4202)
Slant Height to ARP:	1.605	5.265	N = 7040757.227
		5.155	E = 2548862.132
Vertical Height to ARP:		1.5712	Z = *523.97
			CSF = 0.99985263
Meters = Feet x (0.3048)		Note: &/or sketch <b>ANY</b> unusual conditions. be <b>Very Explicit</b> as to where and how <b>Measured</b> .	
Height Entered into receiver : 1.5712 Meters.			

LOG Checked By:	Data File Name(s):	(standard NGS Format = aaaaddds.xxx) aaa=4 character ID, ddd=Day of Year,
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GPS 109B, 2" BRASS DISK STAMPED 109B, LOCATED ON INLET TOP ON MURPHY RD. APPROX. 54' N.W. OF THE KCS RR TRACKS & APPROX. 37' N.E. OF MURPHY RD. C/L.  
 \*\*\*COG MAP GRID B-9\*\*\*MAPSCO 9A-U\*\*\*

### Table of Weather

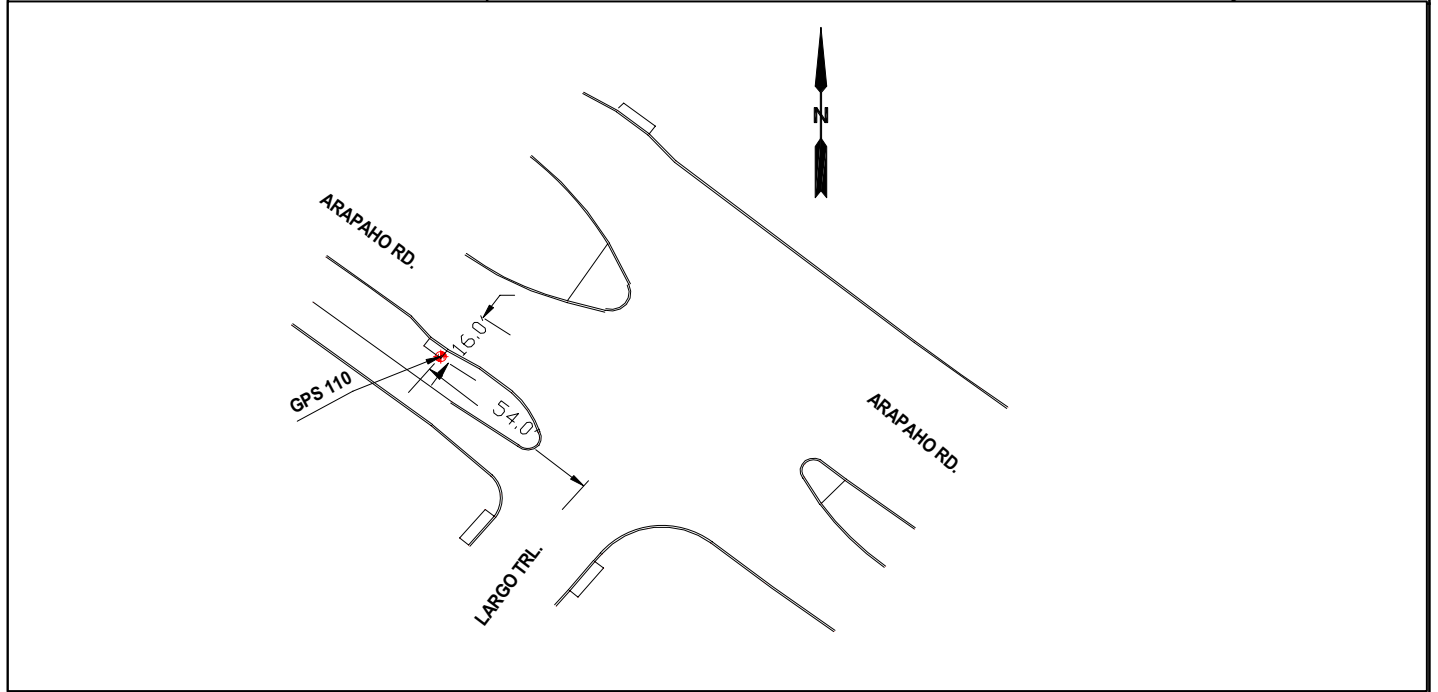
Problem	Visibility	Temperature	Cloud Cover	Wind
NONE	GOOD	70°	CLOUDY	5 - 10 MPH
Any obstructions above 10° ? <input type="checkbox"/> YES <input type="checkbox"/> NO		Radio Interference source nearby ?		<input type="checkbox"/> YES <input type="checkbox"/> NO

RPLS: GSB P.Chief: TG Field Tech: KW Field Tech: CW

## GPS Station Observation Log

Station Designation ( Check applicable: <input checked="" type="checkbox"/> GEO. CNTRL. <input type="checkbox"/> Trav. PT. <input type="checkbox"/> BM )		Station PID, if any: GPS 110	DATE: 7/14/2005
Project Name: <b>Geodetic Monument</b>		Project Number: <b>GPS- 110</b>	
NAD83 Latitude: 32 57 36.33870		NAD83 Longitude: 96 40 07.06008	
Observation Session Time		151.233 ft./meters	
Sched. Start: _____ Stop: _____		NAVD88 Orthometric Height	
Actual Start: 9:31 AM Stop: 2:00 PM		177.182 ft./meters	
Epoch Interval = 5 Seconds		GEOID03 Geoid Height	
Elevation Mask = _____ Degrees		ft./meters	
Receiver Brand & Model: Topcon Hiper Lite-Internal Antenna		Comments: 4HRS. STATIC DATA RECORDED.	
Base: <input checked="" type="checkbox"/> Rover: _____		NOTE: ELEV. 581.31 IS ORTHO HT. CALC. BY OPUS.	
P/N: 01-840802-03		P/N: 01-840802-03	
S/N: 263-0243		S/N: 263-0233	
ID: 8QATEMNVCHS		ID: 8OKPW2V2RR4	
** ANTENNA HEIGHT **		Meters	Feet
Slant Height to ARP:		1.689	5.54
Vertical Height to ARP:			
Meters = Feet x (0.3048)		Note: &/or sketch <b>ANY</b> unusual conditions. be <b>Very Explicit</b> as to where and how <b>Measured</b> .	
Height Entered into receiver = 1.655 Meters.			

LOG Checked By: \_\_\_\_\_ Data File Name(s): \_\_\_\_\_ (standard NGS Format = aaaadds.xxx)  
 aaa=4 character ID, ddd=Day of Year,



GPS 110, 2" BRASS DISK STAMPED 110 LOCATED ON INLET TOP @ S.W. COR. OF ARAPAHO & LARGO TRL. APPROX. 54' N.W. OF C/L OF LARGO TRL. & ARAPAHO INT.  
 \*\*\*COG MAP GRID C-5\*\*\*MAPSCO 9-W\*\*\*

### Table of Weather

Problem	Visibility	Temperature	Cloud Cover	Wind
NONE	GOOD	85°	CLEAR	10 - 15 MPH
Any obstructions above 10° ?		( Y / N )	Radio Interference source nearby ? ( Y / N )	

RPLS: GSB P.Chief: TG Field Tech: KW Field Tech: CW

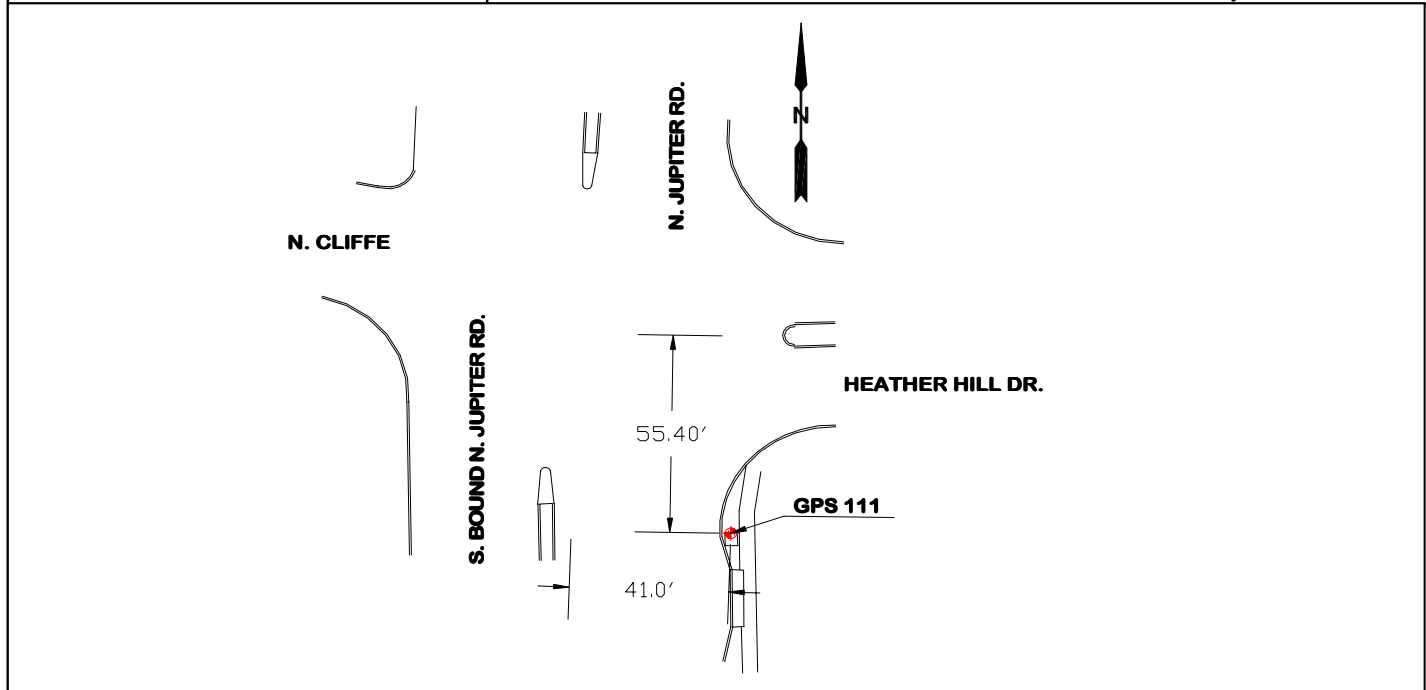
## GPS Station Observation Log

Station Designation ( Check applicable: <input checked="" type="checkbox"/> GEO. CNTRL. <input type="checkbox"/> Trav. PT. <input type="checkbox"/> BM )		Station PID, if any: GPS 111	DATE: 2/19/2004
Project Name: <b>Geodetic Monument</b>		Project Number: <b>GPS- 111</b>	
NAD83 Latitude: 32 58 35.63125		NAD83 Longitude: 96 40 57.05232	
Observation Session Time		143.186 ft./meters	
Sched. Start: _____ Stop: _____		NAVD88 Orthometric Height	
Actual Start: 10:45 AM Stop: 3:05 PM		169.172 ft./meters	
Epoch Interval = 5 Seconds		GEOID03 Geoid Height	
Elevation Mask = _____ Degrees		ft./meters	
Receiver Brand & Model: Topcon Hiper Lite-Internal Antenna		Comments: 4HRS. 20 MIN. STATIC DATA RECORDED.	

Base: <input checked="" type="checkbox"/>	Rover:	NOTE: ELEV. 555.025 IS ORTHO HT. CALC. BY OPUS.
P/N: 01-840802-03	P/N: 01-840802-03	
S/N: 263-0243	S/N: 263-0233	
ID: 8QATEMNVCHS	ID: 8OKPW2V2RR4	

** ANTENNA HEIGHT **	<b>Meters</b>	<b>Feet</b>	<b>NAD83 TXNC (4202)</b>
Slant Height to ARP:	1.663	5.455	N = 7043042.06218
Vertical Height to ARP:			E = 2525798.03238
			Z = 555.02514
			CSF = 0.99985100
Meters = Feet x (0.3048) Height Entered into receiver = 1.629 Meters.	Note: &/or sketch <b>ANY</b> unusual conditions. be <b>Very Explicit</b> as to where and how <b>Measured</b> .		

LOG Checked By:	Data File Name(s):	(standard NGS Format = aaaadds.xxx) aaa=4 character ID, ddd=Day of Year,
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GPS 111, 2" BRASS DISK STAMPED 111 IS LOCATED ON TRAFFIC BOX PAD, APPROX. 41' E OF N. JUPITER RD. C/L AND APPROX. 55' S. OF INT. OF HEATHERHILL DR & N. JUPITER RD.  
COR. \*\*\*COG MAP GRID A-4,B-4\*\*\*MAPSCO 8-Q\*\*\*

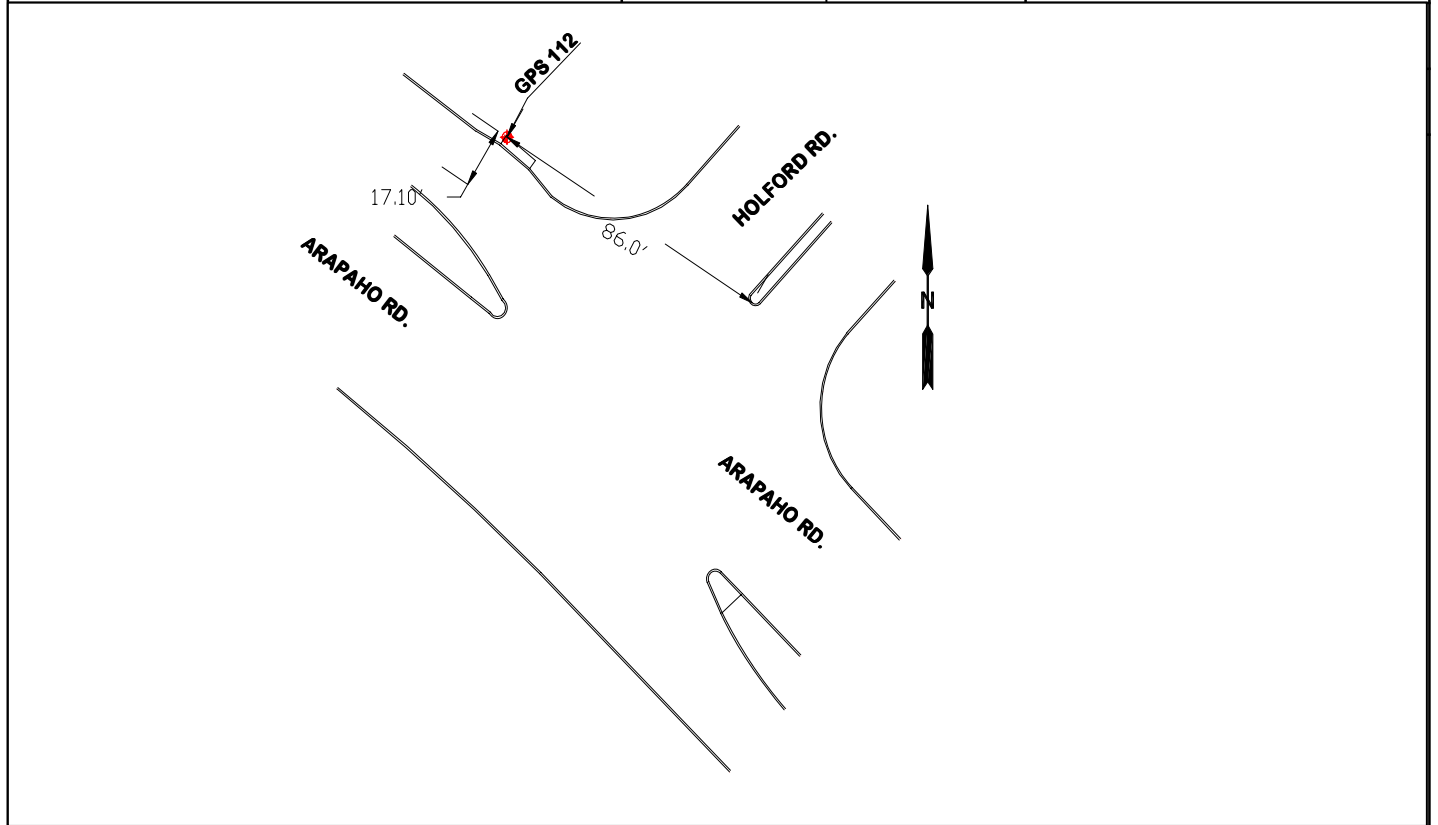
### Table of Weather

Problem	Visibility	Temperature	Cloud Cover	Wind
NONE	GOOD	67°	P/CLOUDY	35 MPH
Any obstructions above 10° ?		( Y / N )	Radio Interference source nearby ?	
		( Y / N )		
RPLS: <u>GSB</u>	P.Chief: <u>TG</u>	Field Tech: <u>KW</u>	Field Tech: <u>CW</u>	

## GPS Station Observation Log

Station Designation	( Check applicable: <input checked="" type="checkbox"/> GEO. CNTRL. <input type="checkbox"/> Trav. PT. <input type="checkbox"/> BM )	Station PID, if any:	DATE:
		GPS 112	7/19/2004
Project Name: <b>Geodetic Monument</b>	Project Number: <b>GPS-112</b>	Stat. 4-Char ID: _____	Day of Year: _____
NAD83 Latitude: 32 57 32.67148	NAD83 Longitude: 96 39 45.18257	Session ID: (A,B,C,etc.)	
Observation Session Time		146.214	Agency Full Name: <b>City of Garland</b>
		ft./meters	
Sched. Start: _____ Stop: _____	NAVD88 Orthometric Height	Operator Full Name: Toney E. Gibson	
Actual Start: <b>9:30 AM</b> Stop: <b>1:45 PM</b>	172.145	Phone# (972) 205 - 2157	
		ft./meters	
Epoch Interval = <b>5</b> Seconds	GEOID03 Geoid Height	E-mail: gbreysac@ci.garland.tx.us	
Elevation Mask = _____ Degrees	ft./meters		
Receiver Brand & Model: Topcon Hiper Lite-Internal Antenna		Comments: 4HRS STATIC DATA RECORDED.	
Base:	Rover: <u>X</u>	NOTE: ELEV. 564.779 IS ORTHO HT. CALC. BY OPUS.	
P/N: 01-840802-03	P/N: 01-840802-03	****564.78-LEVEL LOOP FROM NGSCS 2525 (NAVD 88)	
S/N: 263-0243	S/N: 263-0233		
ID: 8QATEMNVCHS	ID: 8OKPW2V2RR4		

** ANTENNA HEIGHT **	<b>Meters</b>	<b>Feet</b>	<b>NAD83 TXNC (4202)</b>
Slant Height to ARP:	1.749	5.735	N = 7036786.88768
			E = 2532030.22464
Vertical Height to ARP:			Z = 564.78*
			CSF = 0.99985097



GPS 112, 2" BRASS DISK STAMPED 112, LOCATED ON INLET TOP @ N. COR. OF HOLFORD RD & ARAPAHO RD INT. APPROX. 86' N.W. OF HOLFORD RD C/L @ ARAPAHO RD APPROX. 17' N.E. OF ARAPAHO RD. WEST BOUND C/L. \*\*\*COG MAP GRIDC-5\*\*\*MAPSCO 9-W\*\*\*

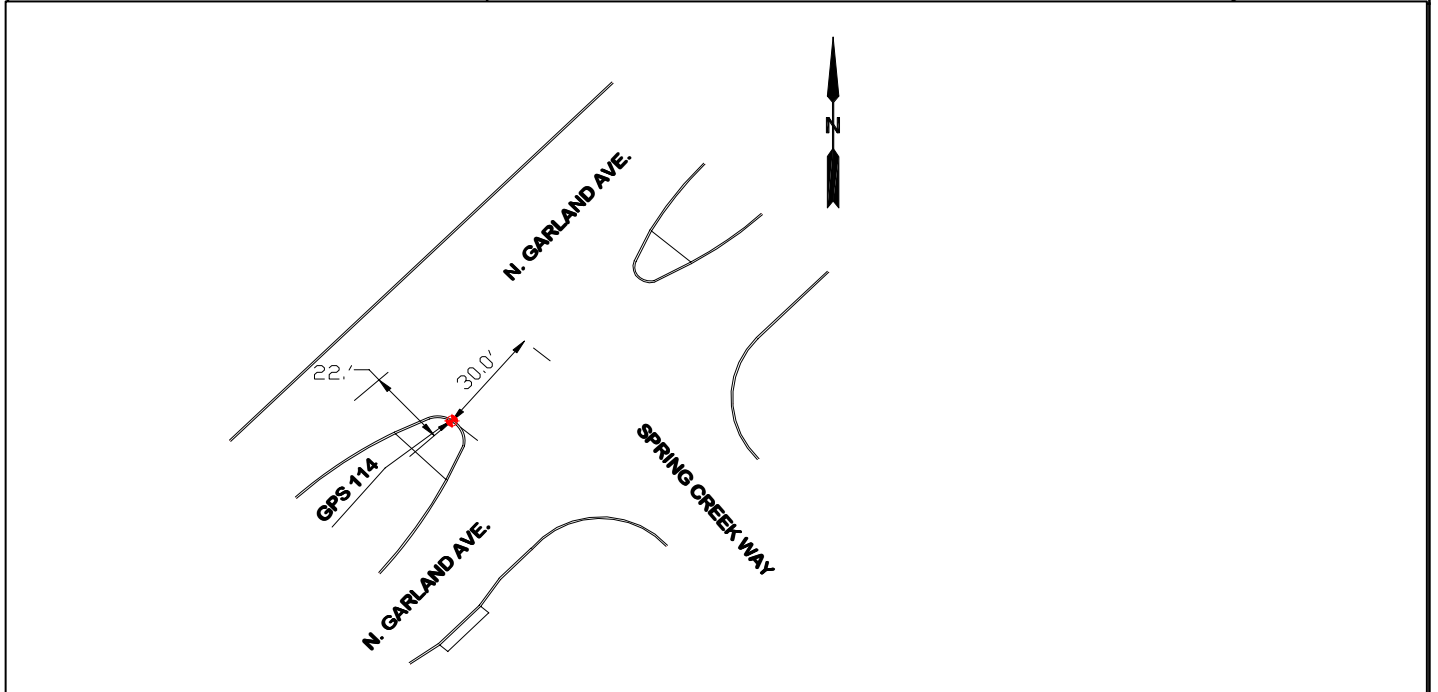
### Table of Weather

Problem	Visibility	Temperature	Cloud Cover	Wind
NONE	GOOD	80°	CLEAR	5 - 10 MPH
Any obstructions above 10° ?		( Y / N )	Radio Interference source nearby ?	
			( Y / N )	

RPLS: GSB P.Chief: TG Field Tech: KW Field Tech: CW

## GPS Station Observation Log

Station Designation ( Check applicable: <input checked="" type="checkbox"/> GEO. CNTRL. <input type="checkbox"/> Trav. PT. <input type="checkbox"/> BM )		Station PID, if any: GPS 114	DATE: 7/15/2005
Project Name: <b>Geodetic Monument</b>		Project Number: <b>GPS- 114</b>	
NAD83 Latitude: 32 57 25.12302		NAD83 Longitude: 96 39 09.46838	
Observation Session Time		141.919 m   ft./meters	
Sched. Start: _____ Stop: _____		NAVD88 Orthometric Height	
Actual Start: 9:30 AM Stop: 1:35 PM		167.820 m   ft./meters	
Epoch Interval = 5 Seconds		GEOID03 Geoid Height	
Elevation Mask = _____ Degrees		ft./meters	
Receiver Brand & Model: Topcon Hiper Lite-Internal Antenna		Comments: 4HRS. STATIC DATA RECORDED.	
Base: _____		Rover: <u>X</u>	
P/N: 01-840802-03		NOTE: ELEV. IS ORTHO HT. IS CALC. BY OPUS.	
S/N: 263-0243		P/N: 01-840802-03	
ID: 8QATEMNVCHS		S/N: 263-0233	
		ID: 8OKPW2V2RR4	
** ANTENNA HEIGHT **		<b>NAD83 TXNC (4202)</b>	
Slant Height to ARP:		Meters	Feet
		1.666	5.465
Vertical Height to ARP:			
		N = 7036077.53215	
		E = 2535085.89110	
		Z = 550.58945	
		CSF = 0.99985170	
Meters = Feet x (0.3048)		Note: &/or sketch <b>ANY</b> unusual conditions. be <b>Very Explicit</b> as to where and how <b>Measured</b> .	
Height Entered into receiver = <u>1.632</u> Meters.			
LOG Checked By: _____		Data File Name(s): (standard NGS Format = aaaadds.xxx) aaa=4 character ID, ddd=Day of Year,	



GPS 114, 2" BRASS DISK STAMPED 114 IS LOCATED ON B.C. OF MEDIAN NOSE APPROX. 30' S.W. OF THE INT OF N. GARLAND AVE. & SPRING CREEK WAY. APPROX. 22' S.E. OF N. GARLAND AVE. S.W. BOUND LANE C/L.  
 \*\*\*COG MAP GRID C-6\*\*\*MAPSCO 19-B\*\*\*

### Table of Weather

Problem	Visibility	Temperature	Cloud Cover	Wind
NONE	GOOD	85°	CLEAR	5 -10 MPH
Any obstructions above 10° ?		( Y / N )	Radio Interference source nearby ? ( Y / N )	

RPLS: GSB P.Chief: TG Field Tech: KW Field Tech: CW

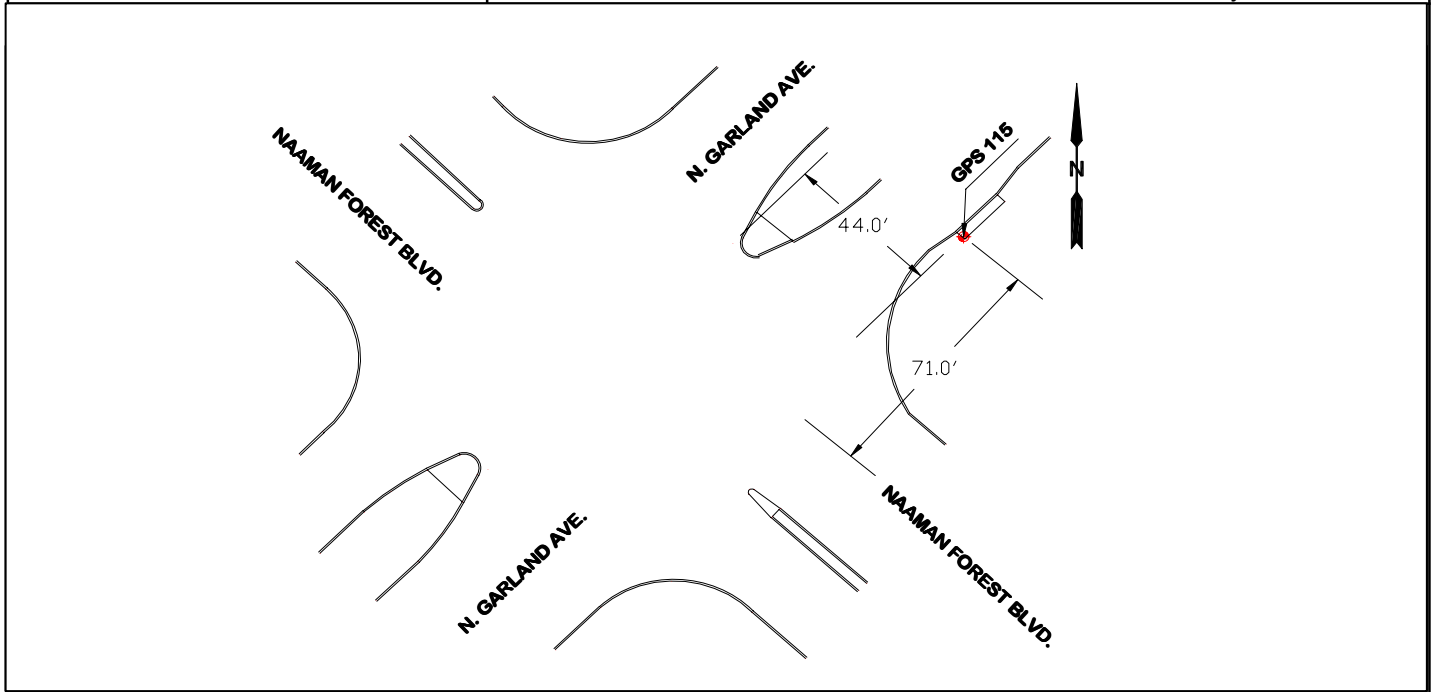
## GPS Station Observation Log

Station Designation ( Check applicable: <input checked="" type="checkbox"/> GEO. CNTRL. <input type="checkbox"/> Trav. PT. <input type="checkbox"/> BM )		Station PID, if any: GPS 115	DATE: 7/20/2005
Project Name: <b>Geodetic Monument</b>		Project Number: <b>GPS- 115</b>	
NAD83 Latitude: 32 57 40.94017	NAD83 Longitude: 96 38 49.60867	Stat.4-Char ID: _____	Day of Year: _____
Observation Session Time		139.733 ft./meters	
Sched. Start: _____ Stop: _____		NAVD88 Orthometric Height	
Actual Start: 9:30 AM Stop: 1:45 PM		165.616 ft./meters	
Epoch Interval = 5 Seconds		GEOID03 Geoid Height	
Elevation Mask = _____ Degrees		ft./meters	
Receiver Brand & Model: Topcon Hiper Lite-Internal Antenna		Comments: 4HRS. STATIC DATA RECORDED.	

Base:	Rover: <input checked="" type="checkbox"/>	NOTE: ELEV. 543.358 IS ORTHO HT. CALC BY OPUS.
P/N:01-840802-03	P/N:01-840802-03	
S/N: 263-0243	S/N: 263-0233	
ID:8QATEMNVCHS	ID:8OKPW2V2RR4	

** ANTENNA HEIGHT **		Meters	Feet	<b>NAD83 TXNC (4202)</b>
Slant Height to ARP:	1.740 m	5.71	N = 7037705.54070	
			E = 2536749.45405	
Vertical Height to ARP:			Z = 543.35849	
			CSF = 0.99985192	
Meters = Feet x (0.3048)	Note: &/or sketch <b>ANY</b> unusual conditions. be <b>Very Explicit</b> as to where and how <b>Measured</b> .			
Height Entered into receiver = 1.707 Meters.				

LOG Checked By:	Data File Name(s):	(standard NGS Format = aaaadds.xxx) aaa=4 character ID, ddd=Day of Year,
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GPS 115, 2" BRASS DISK STAMPED 115 IS LOCATED ON INLET TOP @ N. GARLAND AVE & NAAMAN FOREST BLVD. INT. APPROX. 44' S.E. OF N. GARLAND AVE. C/L AND APPROX. 71' N.E. OF THE C/L OF NAAMAN FOREST BLVD. N. BOUND LANE. \*\*\*COG MAP GRID C-6\*\*\*MAPSCO 9-Y\*\*\*

### Table of Weather

Problem	Visibility	Temperature	Cloud Cover	Wind
NONE	GOOD	85°	CLEAR	5 - 10 MPH
Any obstructions above 10° ?		( Y / N )	Radio Interference source nearby ?	
			( Y / N )	

RPLS: GSB P.Chief: TG Field Tech: KW Field Tech: CW

### GPS Station Observation Log

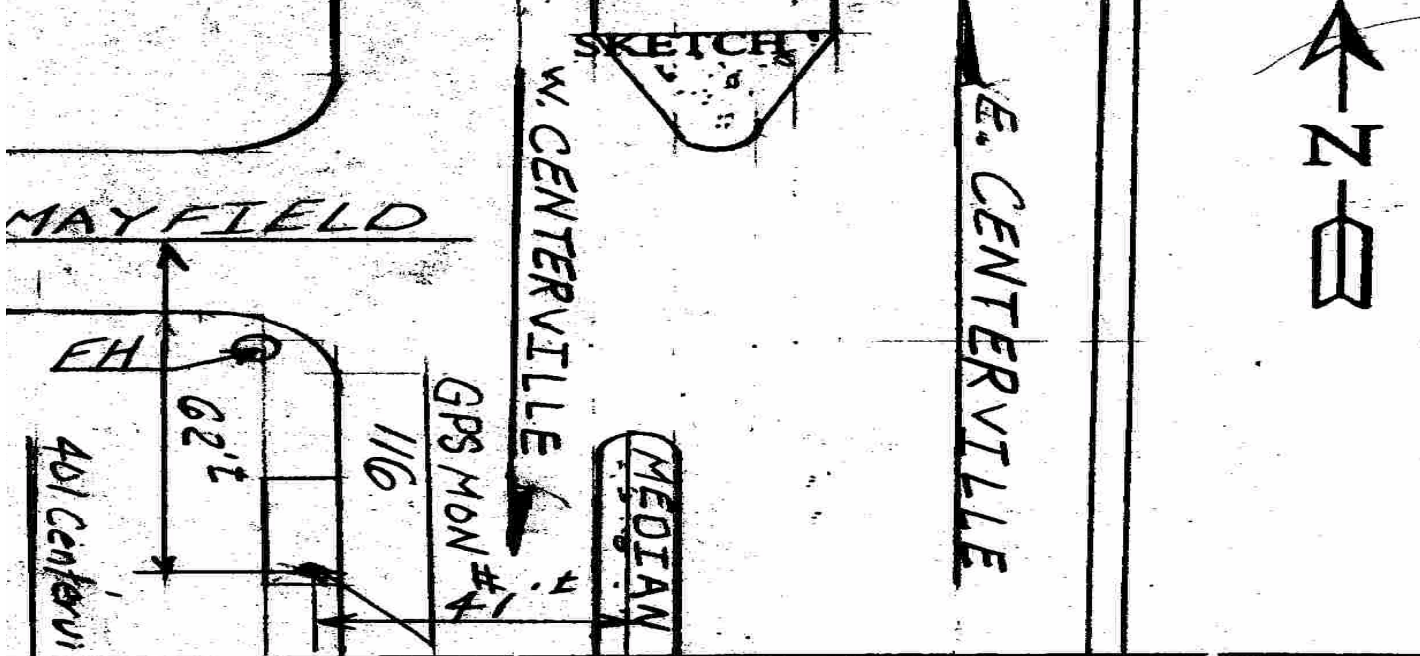
Station Designation ( Check applicable: <input checked="" type="checkbox"/> GEO. CNTRL. <input type="checkbox"/> Trav. PT. <input type="checkbox"/> BM )		Station PID, if any: GPS 116	DATE: 8/2/2004
Project Name: <b>Geodetic Monument</b>		Project Number: <b>GPS- 116</b>	
NAD83 Latitude: 32 52 02.10654		NAD83 Longitude: 96 38 07.87457	
Observation Session Time		131.759 ft./meters	
Sched. Start: _____ Stop: _____		NAD83 Orthometric Height	
Actual Start: 11:06 AM Stop: 3:32 PM		157.656 ft./meters	
Epoch Interval = 5 Seconds		GEOID03 Geoid Height	
Elevation Mask = _____ Degrees		ft./meters	

Receiver Brand & Model: Topcon Hiper Lite-Internal Antenna		Comments: 4 HRS STATIC DATA RECORDED.	
Base:	Rover: <input checked="" type="checkbox"/>	NOTE: ELEV. IS ORTHO HT. CALC. BY OPUS.	
P/N: 01-840802-03	P/N: 01-840802-03		
S/N: 263-0243	S/N: 263-0233		
ID: 8QATEMNVCHS	ID: 8OKPW2V2RR4		

** ANTENNA HEIGHT **		Meters	Feet	NAD83 TXNC (4202)
Slant Height to ARP:	1.659	5.44	N = 7003531.99028	
Vertical Height to ARP:			E = 2540912.09008	
			Z = 517.24306	
Meters = Feet x (0.3048) Height Entered into receiver = 1.6246 Meters.		Note: &/or sketch ANY unusual conditions. be Very Explicit as to where and how Measured.		

LOG Checked By:	Data File Name(s):	(standard NGS Format = aaaadds.xxx) aaa=4 character ID, ddd=Day of Year,
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Remarks, Comments on Problems, Sketches, Pencil Rubbing, etc:



GPS 116, 2" BRASS DISK STAMPED 116 IS LOCATED ON THE W. END OF THE INLET APPROX. 62' W. OF THE C/L OF MAYFIELD AVE. & CENTERVILLE RD INT. APPROX. 41' N.W. OF THE MEDIAN OF CENTERVILLE RD.  
 \*\*\*COG MAP GRID L-7\*\*\*MAPSCO 29-V\*\*\*

#### Table of Weather

Problem	Visibility	Temperature	Cloud Cover	Wind
NONE	GOOD	85°	P/CLOUDY	5 - 10 MPH
Any obstructions above 10° ?		( Y / N )	Radio Interference source nearby ? ( Y / N )	

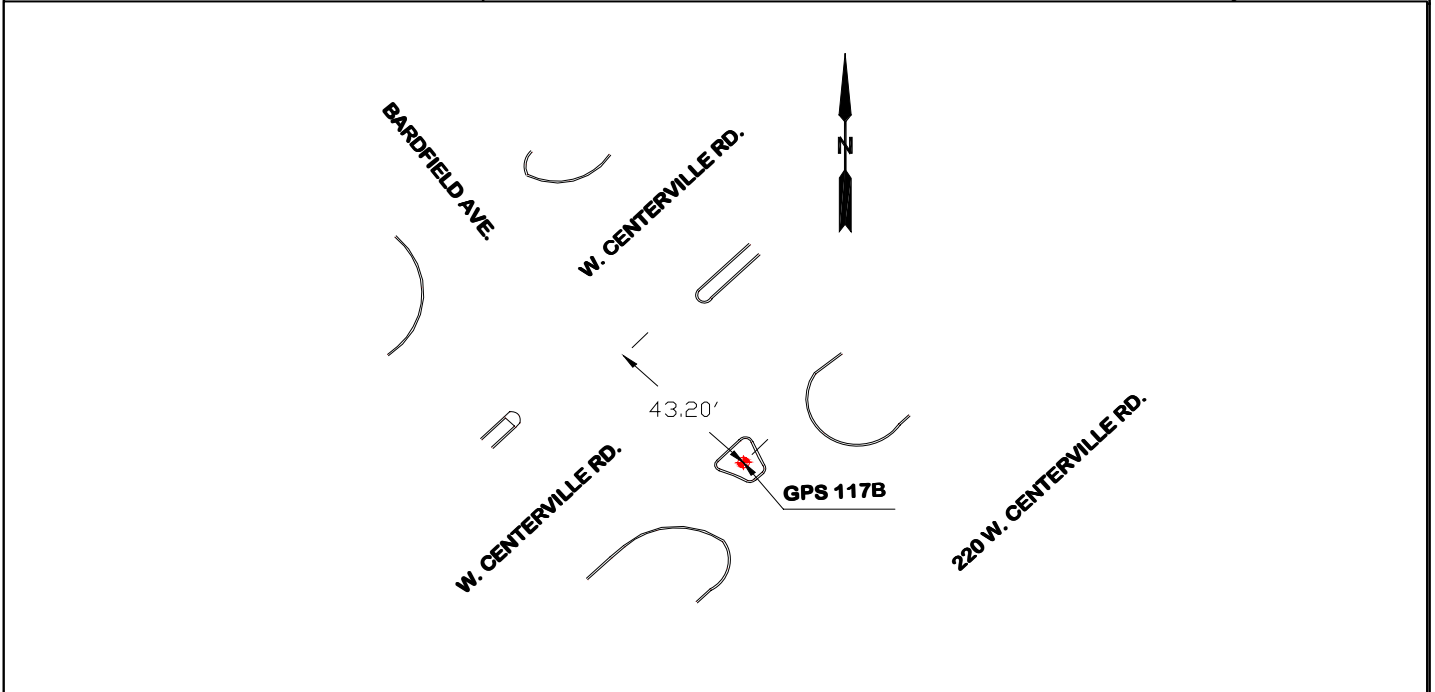
RPLS: GSB P.Chief: TG Field Tech: KW Field Tech: CW

## GPS Station Observation Log

Station Designation	Check applicable: <input checked="" type="checkbox"/> GEO. CNTRL. <input type="checkbox"/> Trav. PT. <input type="checkbox"/> BM	Station PID, if any:	DATE:
		GPS 117B	10/19/2007
Project Name: <b>Geodetic Monument</b>	Project Number: <b>GPS-117B</b>	Stat. 4-Char ID: _____	Day of Year: _____
NAD83 Latitude: 32 52 8.55254	NAD83 Longitude: 96 37 58.75040	Session ID: (A,B,C,etc.)	
Observation Session Time		Agency Full Name: <b>City of Garland</b>	
Sched. Start: _____ Stop: _____		Operator Full Name: Toney E. Gibson	
Actual Start: 10:07AM Stop: 2:15PM		Phone# (972) 205 - 2157	
Epoch Interval = 10 Seconds		E-mail: gbreysac@ci.garland.tx.us	
Elevation Mask = _____ Degrees		ft./meters	
Receiver Brand & Model: <b>Topcon Hiper Lite - Internal Antenna</b>		Comments: 4 HRS. STATIC DATA RECORDED.	
<input checked="" type="checkbox"/> Base	<input type="checkbox"/> Rover	NOTE: ELEV. IS ORTHO HT. CALC. BY OPUS.	
P/N: 01-840802-03	P/N: 01-840802-03		
S/N: 263-0243	S/N: 263-0233		
ID: 8QATEMNVCHS	ID: 8OKPW2V2RR4		

** ANTENNA HEIGHT **	Meters	Feet	NAD83 TXNC (4202)
Slant Height to ARP:	1.715	5.625	N = 7004197.12300
		5.515	E = 2541678.54400
Vertical Height to ARP:		<b>1.6810</b>	Z = 493.349
			CSF = 0.99985813
Meters = Feet x (0.3048)	Note: &/or sketch <b>ANY</b> unusual conditions. be <b>Very Explicit</b> as to where and how <b>Measured</b> .		
Height Entered into receiver : 1.6810 Meters.			

LOG Checked By:	Data File Name(s):	(standard NGS Format = aaaaddds.xxx) aaa=4 character ID, ddd=Day of Year,
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GPS 117B, 2" BRASS DISK STAMPED 117B, LOCATED IN THE MOST S.W. ENTRANCE ISLAND OF 220 W. CENTERVILLE RD. APPROX. 43' S.E. OF W. CENTERVILLE RD. & BARDFIELD AVE. INTERSECTION.  
 \*\*\*COG MAP GRID L-7,8\*\*\*MAPSCO 29-V\*\*\*

### Table of Weather

Problem	Visibility	Temperature	Cloud Cover	Wind
NONE	GOOD	76°	CLEAR	5 - 10 MPH
Any obstructions above 10° ? <input type="checkbox"/> YES <input type="checkbox"/> NO		Radio Interference source nearby ?		<input type="checkbox"/> YES <input type="checkbox"/> NO

RPLS: GSB P.Chief: TG Field Tech: KW Field Tech: CW

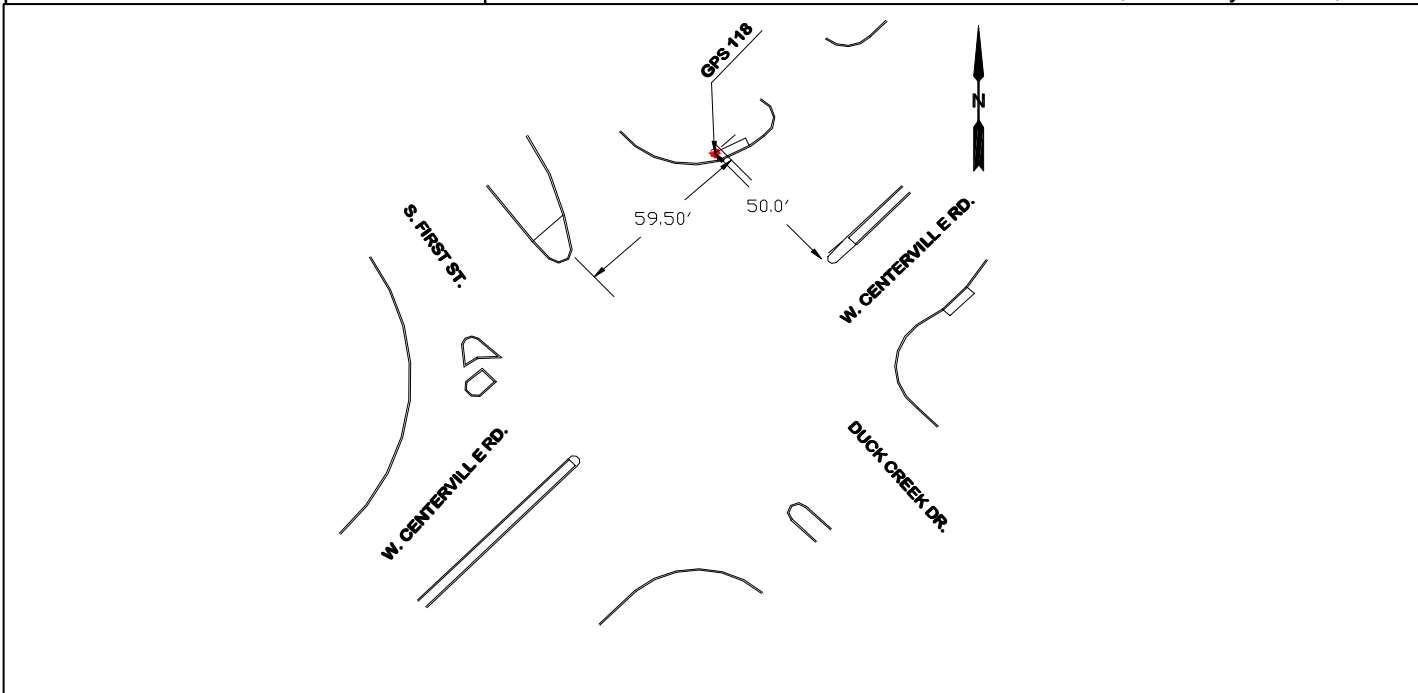


## GPS Station Observation Log

Station Designation ( Check applicable: <input checked="" type="checkbox"/> GEO. CNTRL. <input type="checkbox"/> Trav. PT. <input type="checkbox"/> BM )		Station PID, if any: GPS 118	DATE: 8/4/2005
Project Name: <b>Geodetic Monument</b>		Project Number: <b>GPS-118</b>	
NAD83 Latitude: 32 52 17.13054		NAD83 Longitude: 96 37 50.00505	
Observation Session Time		123.373   ft./meters	
Sched. Start: _____ Stop: _____		NAVD88 Orthometric Height	
Actual Start: <b>8:00 AM</b> Stop: <b>12:07 PM</b>		149.252   ft./meters	
Epoch Interval = <u>5</u> Seconds		GEOID03 Geoid Height	
Elevation Mask = _____ Degrees		ft./meters	
Receiver Brand & Model: Topcon Hiper Lite-Internal Antenna		Comments: 4hrs Static Data Recorded	
Base: <input checked="" type="checkbox"/> Rover: _____		Note: Elev. Is Ortho. HT. Calc. By Opus	
P/N: 01-840802-03		P/N: 01-840802-03	
S/N: 263-0243		S/N: 263-0233	
ID: 8QATEMNVCHS		ID: 8OKPW2V2RR4	

Stat. 4-Char ID: _____		Day of Year: _____	
Session ID: (A,B,C,etc.)		Agency Full Name: City of Garland	
Operator Full Name: Toney E. Gibson		Phone# (972) 205 - 2157	
E-mail: gbreysac@ci.garland.tx.us			

<b>** ANTENNA HEIGHT **</b>		Meters	Feet	<b>NAD83 TXNC (4202)</b>
Slant Height to ARP:	1.743	5.75	N = 7005077.11843	
Vertical Height to ARP:			E = 2542408.83249	
			Z = 489.67094	
			CSF = 0.99985817	
Meters = Feet x (0.3048)		Note: &/or sketch <b>ANY</b> unusual conditions. be <b>Very Explicit</b> as to		
Height Entered into receiver = <u>1.7099</u> Meters.		where and how <b>Measured</b> .		
LOG Checked By:	Data File Name(s): (standard NGS Format = aaaaddds.xxx) aaa=4 character ID, ddd=Day of Year,			



GPS 118, 2" BRASS DISK LOCATED ON TOP INLET @ THE N COR. OF CENTERVILLE & FIRST ST INT. APPROX 59.50' N.E. OF 1st ST., AND APPROX 50' N.W. OF THE C/L OF CENTERVILLE.

\*\*\*COG MAP GRID K-8\*\*\*MAPSCO 29A - S\*\*\*

### Table of Weather

Problem	Visibility	Temperature	Cloud Cover	Wind
NONE	GOOD	78°	P/CLOUDY	5-10 MPH
Any obstructions above 10° ?		Radio Interference source nearby ?		
( Y / N )		( Y / N )		

RPLS: GSB P.Chief: TG Field Tech: KW Field Tech: CW

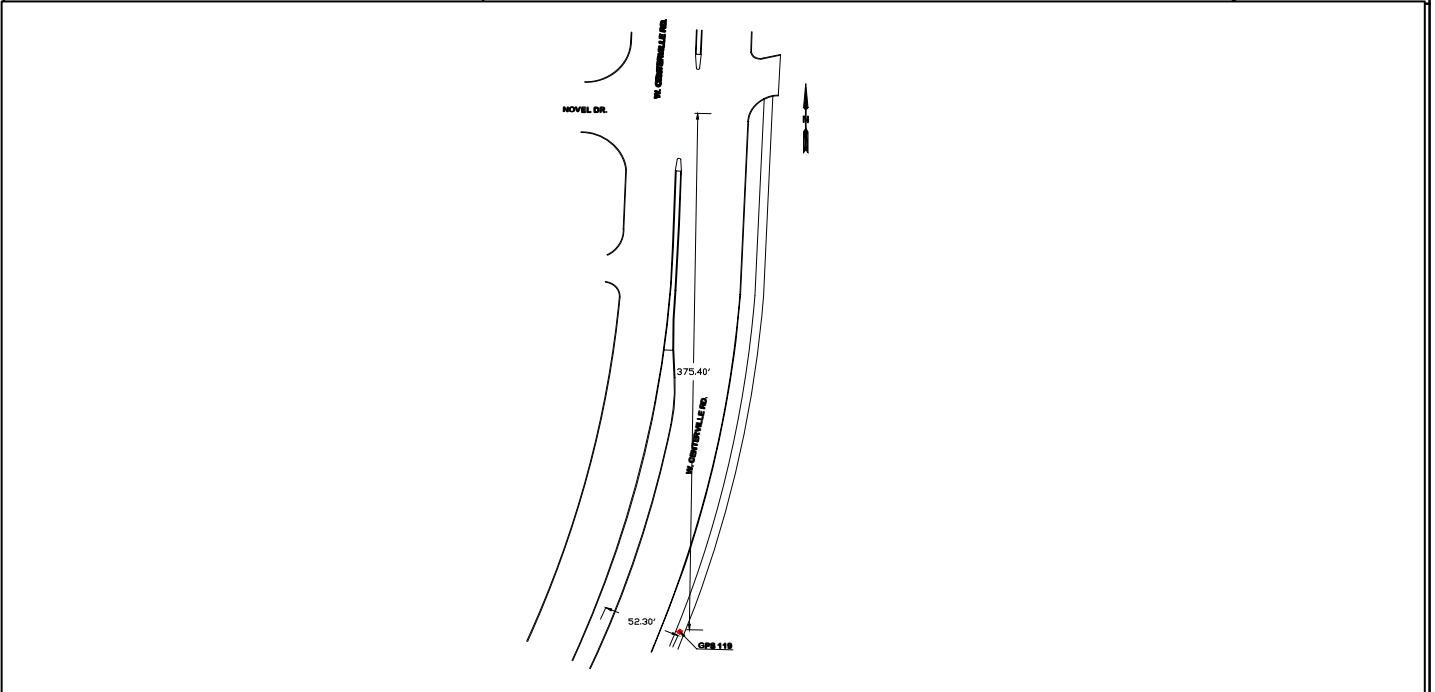
### GPS Station Observation Log

Station Designation	Check applicable: <input checked="" type="checkbox"/> GEO. CNTRL. <input type="checkbox"/> Trav. PT. <input type="checkbox"/> BM	Station PID, if any:	DATE:
		GPS 119	8/18/2005
Project Name: <b>Geodetic Monument</b>	Project Number: <b>GPS- 119</b>	Stat.4-Char ID: _____	Day of Year: _____
NAD83 Latitude: 32 53 43.04137	NAD83 Longitude: 96 36 02.13333	Session ID: (A,B,C,etc.)	
Observation Session Time		Agency Full Name: <b>City of Garland</b>	
Sched. Start: _____ Stop: _____	NAVD88 Orthometric Height	Operator Full Name: Toney E. Gibson	
Actual Start: <u>7:50AM</u> Stop: <u>11:50AM</u>	147.142 ft./meters	Phone# (972) 205 - 2157	
Epoch Interval = <u>10</u> Seconds	GEOID03 Geoid Height	E-mail: gbreysac@ci.garland.tx.us	
Elevation Mask = _____ Degrees	ft./meters		

Receiver Brand & Model: <b>Topcon Hiper Lite - Internal Antenna</b>		Comments: 4 HRS. STATIC DATA RECORDED.
<input checked="" type="checkbox"/> Base	<input type="checkbox"/> Rover	NOTE: ELEV. IS ORTHO HT. CALC. BY OPUS.
P/N:01-840802-03	P/N:01-840802-03	
S/N: 263-0243	S/N: 263-0233	
ID:8QATEMNVCHS	ID:8OKPW2V2RR4	

** ANTENNA HEIGHT **	Meters	Feet	NAD83 TXNC (4202)
Slant Height to ARP:	1.718	5.640	N = 7013922.65100
		5.53	E = 2551449.77100
Vertical Height to ARP:		<b>1.6855</b>	Z = 482.748
			CSF = 0.99985727
Meters = Feet x (0.3048)	Note: &/or sketch <b>ANY</b> unusual conditions. be <b>Very Explicit</b> as to where and how <b>Measured</b> .		
Height Entered into receiver : 1.6855 Meters.			

LOG Checked By:	Data File Name(s):	(standard NGS Format = aaaaddds.xxx) aaa=4 character ID, ddd=Day of Year,
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GPS 119, 2" BRASS DISK STAMPED 119, LOCATED IN SIDEWALK APPROX. 375' S. OF NOVEL DR & W. CENTERVILLE RD C/L INT. & APPROX. 52' E. OF W. CENTERVILLE RD C/L.  
 \*\*\*COG MAP GRID I-10\*\*\*MAPSCO 29A-H\*\*\*

#### Table of Weather

Problem	Visibility	Temperature	Cloud Cover	Wind
NONE	GOOD	95°	CLEAR	5 - 10 MPH
Any obstructions above 10° ? <input type="checkbox"/> YES <input type="checkbox"/> NO		Radio Interference source nearby ?		<input type="checkbox"/> YES <input type="checkbox"/> NO

RPLS: GSB P.Chief: TG Field Tech: KW Field Tech: CW

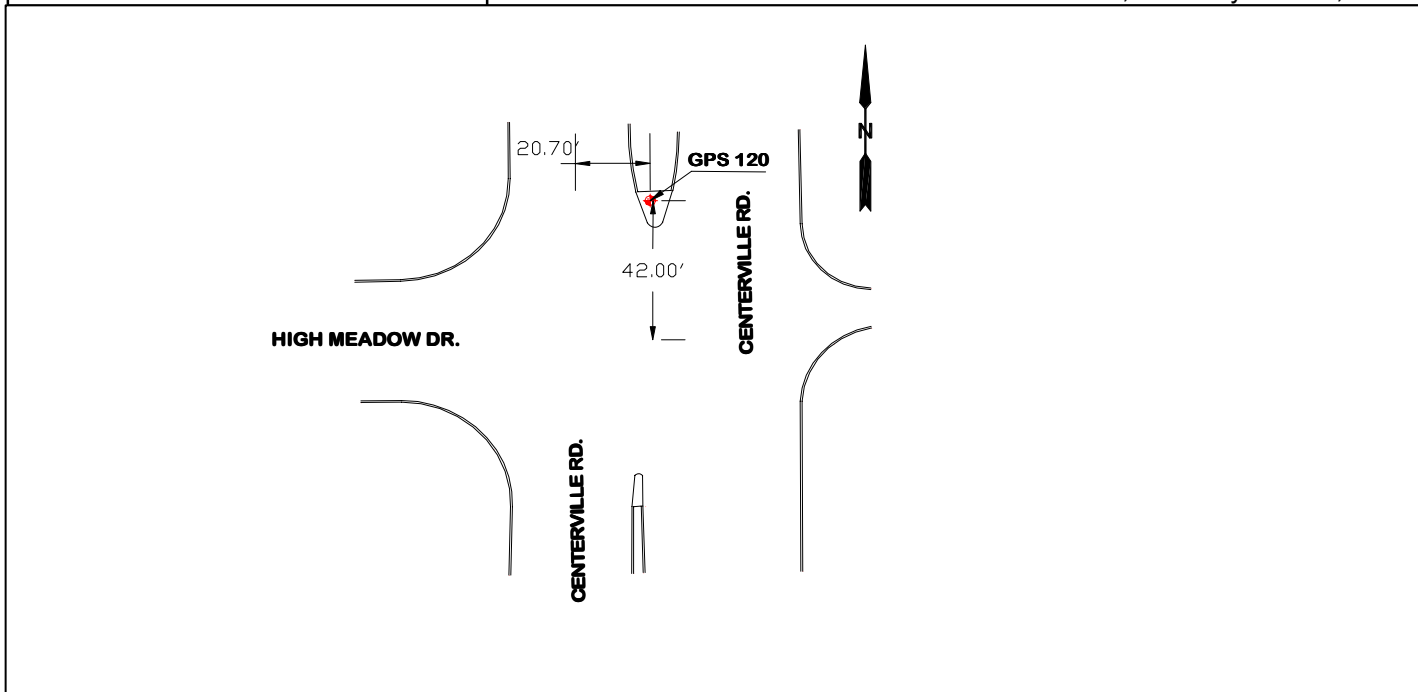
## GPS Station Observation Log

Station Designation ( Check applicable: <input checked="" type="checkbox"/> GEO. CNTRL. <input type="checkbox"/> Trav. PT. <input type="checkbox"/> BM )		Station PID, if any: GPS 120	DATE: 8/17/2005
Project Name: <b>Geodetic Monument</b>		Project Number: <b>GPS- 120</b>	
NAD83 Latitude: 32 53 56.23143		NAD83 Longitude: 96 36 01.69700	
Observation Session Time		116.912 m   ft./meters	
Sched. Start: _____ Stop: _____		NAVD88 Orthometric Height	
Actual Start: 8:02 AM Stop: 12:02 PM		142.690 m   ft./meters	
Epoch Interval = _____ Seconds		GEOID03 Geoid Height	
Elevation Mask = _____ Degrees		ft./meters	
Receiver Brand & Model: Topcon Hiper Lite-Internal Antenna		Comments: 4HRS. STATIC DATA RECORDED.	

Base:	Rover: <u>X</u>	NOTE: ELEV. IS ORTHO HT. CALC. BY OPUS.
P/N:01-840802-03	P/N:01-840802-03	
S/N: 263-0243	S/N: 263-0233	
ID:8QATEMNVCHS	ID:8OKPW2V2RR4	

** ANTENNA HEIGHT **	Meters	Feet	<b>NAD83 TXNC (4202)</b>
Slant Height to ARP:		5.56	N = 7015256.06460
Vertical Height to ARP:			E = 2551462.85966
			Z = 468.13883
			CSF = 0.99985780
Meters = Feet x (0.3048) Height Entered into receiver = <u>1.6612</u> Meters.	Note: &/or sketch <b>ANY</b> unusual conditions. be <b>Very Explicit</b> as to where and how <b>Measured</b> .		

LOG Checked By:	Data File Name(s):	(standard NGS Format = aaaadds.xxx) aaa=4 character ID, ddd=Day of Year,
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GPS 120, 2" BRASS DISK STAMPED 120 IS LOCATED IN THE MEDIAN NOSE OF CENTERVILLE APPROX. 42' N. OF HIGH MEADOW AND CENTERVILLE RD. C/L AND APPROX. 20' E. OF S. BOUND CENTERVILLE RD C/L.

\*\*\*COG MAP GRID I-10\*\*\*MAPSCO 29A-H\*\*\*

### Table of Weather

Problem	Visibility	Temperature	Cloud Cover	Wind
NONE	GOOD	75°	P/CLOUDY	5 - 10 MPH
Any obstructions above 10° ?		( Y / N )	Radio Interference source nearby ?	
		( Y / N )		

RPLS: GSB P.Chief: TG Field Tech: KW Field Tech: CW

### GPS Station Observation Log

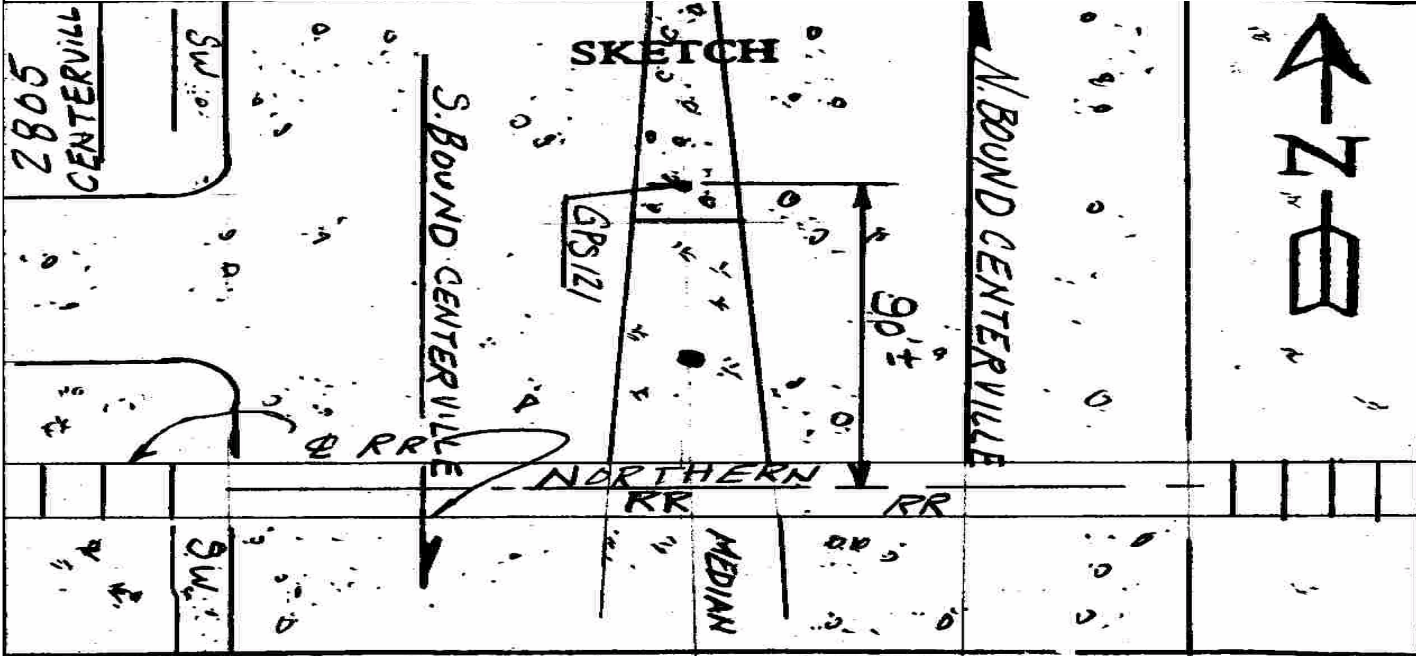
Station Designation ( Check applicable: <input checked="" type="checkbox"/> GEO. CNTRL. <input type="checkbox"/> Trav. PT. <input type="checkbox"/> BM )		Station PID, if any: GPS 121	DATE: 1/12/2006
Project Name: <b>Geodetic Monument</b>		Project Number: <b>GPS- 121</b>	
NAD83 Latitude: 32 54 16.39047	NAD83 Longitude: 96 36 01.54848	NAD83 Ellipsoidal Height 115.830 m   ft./meters	Stat.4-Char ID: _____ Day of Year: _____
Observation Session Time		Session ID: (A,B,C,etc.)	
Sched. Start: _____ Stop: _____		Agency Full Name: <b>City of Garland</b>	
Actual Start: 8:00 AM Stop: 12:05 PM		Operator Full Name: Toney E. Gibson	
Epoch Interval = <u>10</u> Seconds		Phone# (972) 205 - 2157	
Elevation Mask = _____ Degrees		E-mail: gbreysac@ci.garland.tx.us	

Receiver Brand & Model: Topcon Hiper Lite-Internal Antenna		Comments: 4HRS STATIC DATA RECORDED.	
Base: <input checked="" type="checkbox"/>	Rover:	NOTE: ELEV. IS ORTHO HT. CALC. BY OPUS.	
P/N:01-840802-03	P/N:01-840802-03		
S/N: 263-0243	S/N: 263-0233		
ID:8QATEMNVCHS	ID:8OKPW2V2RR4		

** ANTENNA HEIGHT **		Meters	Feet	<b>NAD83 TXNC (4202)</b>
Slant Height to ARP:	1.711	5.61	N = 7017293.18980	
			E = 2551438.68976	
Vertical Height to ARP:			Z = 464.58240	
			CSF = 0.99985772	
Meters = Feet x (0.3048)	Note: &/or sketch <b>ANY</b> unusual conditions. be <b>Very Explicit</b> as to where and how <b>Measured</b> .			
Height Entered into receiver = <u>1.6764</u> Meters.				

LOG Checked By:	Data File Name(s):	(standard NGS Format = aaaadds.xxx) aaa=4 character ID, ddd=Day of Year,
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Remarks, Comments on Problems, Sketches, Pencil Rubbing, etc:



GPS 121, 2" BRASS DISK STAMPED 121, LOCATED IN C/L MEDIAN OF CENTERVILLE RD APPROX. 90' N. OF NORTHERN R.R. TRACKS @ THE ENTRANCE TO 2805 CENTERVILLE RD.  
 \*\*\*COG MAP GRID H-10\*\*\*MAPSCO 29A-D\*\*\*

#### Table of Weather

Problem	Visibility	Temperature	Cloud Cover	Wind
NONE	GOOD	45°	CLEAR	5 - 10 MPH
Any obstructions above 10° ?		( Y / N )	Radio Interference source nearby ? ( Y / N )	
RPLS: <u>GSB</u>	P.Chief: <u>TG</u>	Field Tech: <u>KW</u>	Field Tech: <u>CW</u>	

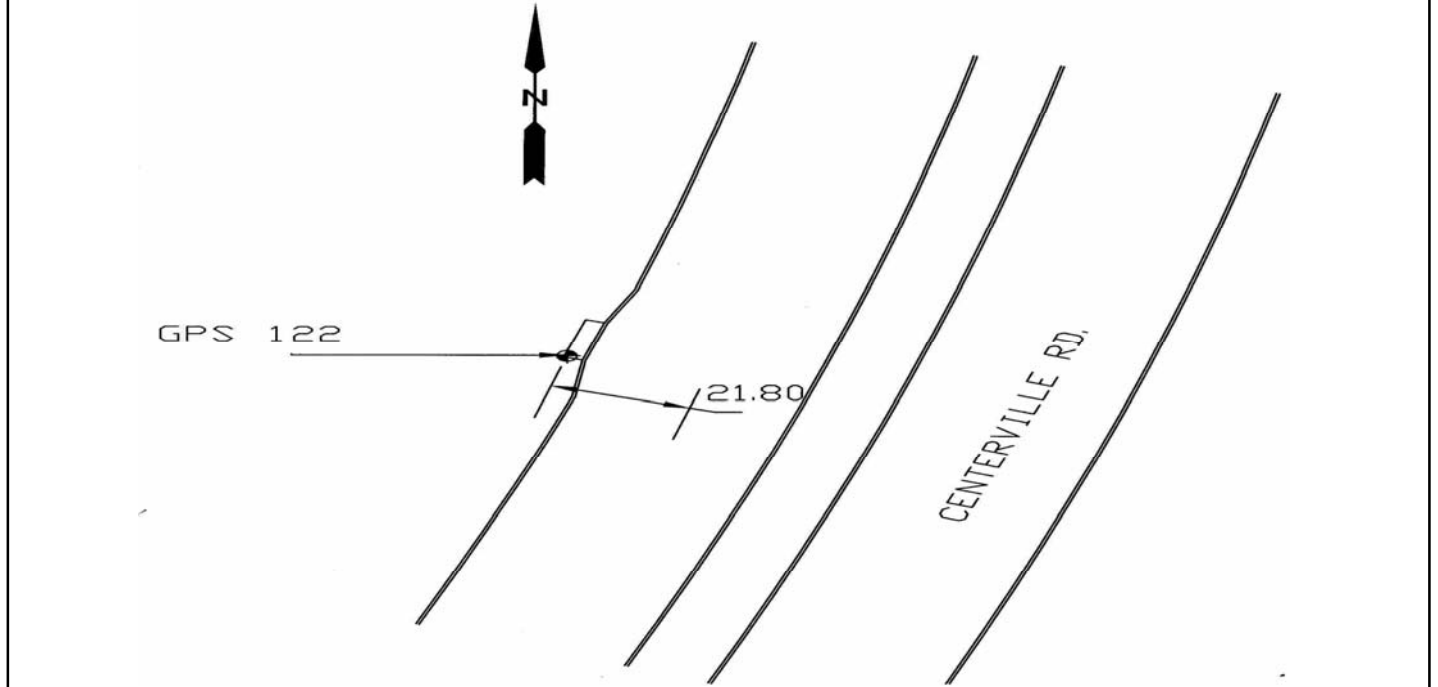
## GPS Station Observation Log

Station Designation ( Check applicable: <input checked="" type="checkbox"/> GEO. CNTRL. <input type="checkbox"/> Trav. PT. <input type="checkbox"/> BM )		Station PID, if any: GPS 122	DATE: 8/11/2005
Project Name: <b>Geodetic Monument</b>		Project Number: <b>GPS-122</b>	
NAD83 Latitude: 32 54 24.99037		NAD83 Longitude: 96 35 57.68834	
Observation Session Time		115.874 ft./meters	
Sched. Start: _____ Stop: _____		NAVD88 Orthometric Height	
Actual Start: 8:15 AM Stop: 12:23 PM		141.644 ft./meters	
Epoch Interval = 5 Seconds		GEOID03 Geoid Height	
Elevation Mask = _____ Degrees		ft./meters	

Receiver Brand & Model: Topcon Hiper Lite-Internal Antenna		Comments: 4HRS. STATIC DATA RECORDED.
Base:	Rover: <u>X</u>	NOTE: ELEV. 464.71 IS ORTHO HT. CALC. BY OPUS.
P/N: 01-840802-03	P/N: 01-840802-03	*LEVEL LOOP ELEV. FROM RM30. ELEV. 464.797 (NAVD 88)
S/N: 263-0243	S/N: 263-0233	
ID: 8QATEMNVCHS	ID: 8OKPW2V2RR4	

** ANTENNA HEIGHT **	<b>Meters</b>	<b>Feet</b>	<b>NAD83 TXNC (4202)</b>
Slant Height to ARP:	1.656	5.435	N = 7018168.08634
Vertical Height to ARP:			E = 2551751.98638
			Z = 464.797*
			CSF = 0.99985760
Meters = Feet x (0.3048) Height Entered into receiver = 1.6231 Meters.	Note: &/or sketch <b>ANY</b> unusual conditions. be <b>Very Explicit</b> as to where and how <b>Measured</b> .		

LOG Checked By:	Data File Name(s):	(standard NGS Format = aaaadds.xxx) aaa=4 character ID, ddd=Day of Year,
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GPS 122, 2" BRASS DISK STAMPED 122 IS LOCATED @ BACK OF INLET. S.W. COR. APPROX. 21.80' W. OF CENTERVILLE RD SOUTH BOUND LANE C/L. APPROX. 655' S. OF COMMERCE ST C/L.  
 \*\*\*COG MAP GRID I-10\*\*\*MAPSCO 29A-H\*\*\*

### Table of Weather

Problem	Visibility	Temperature	Cloud Cover	Wind
NONE	GOOD	75°	P/CLOUDY	5 - 10 MPH
Any obstructions above 10° ?		( Y / N )	Radio Interference source nearby ?	
		( Y / N )		

RPLS: GSB P.Chief: TG Field Tech: KW Field Tech: CW

### GPS Station Observation Log

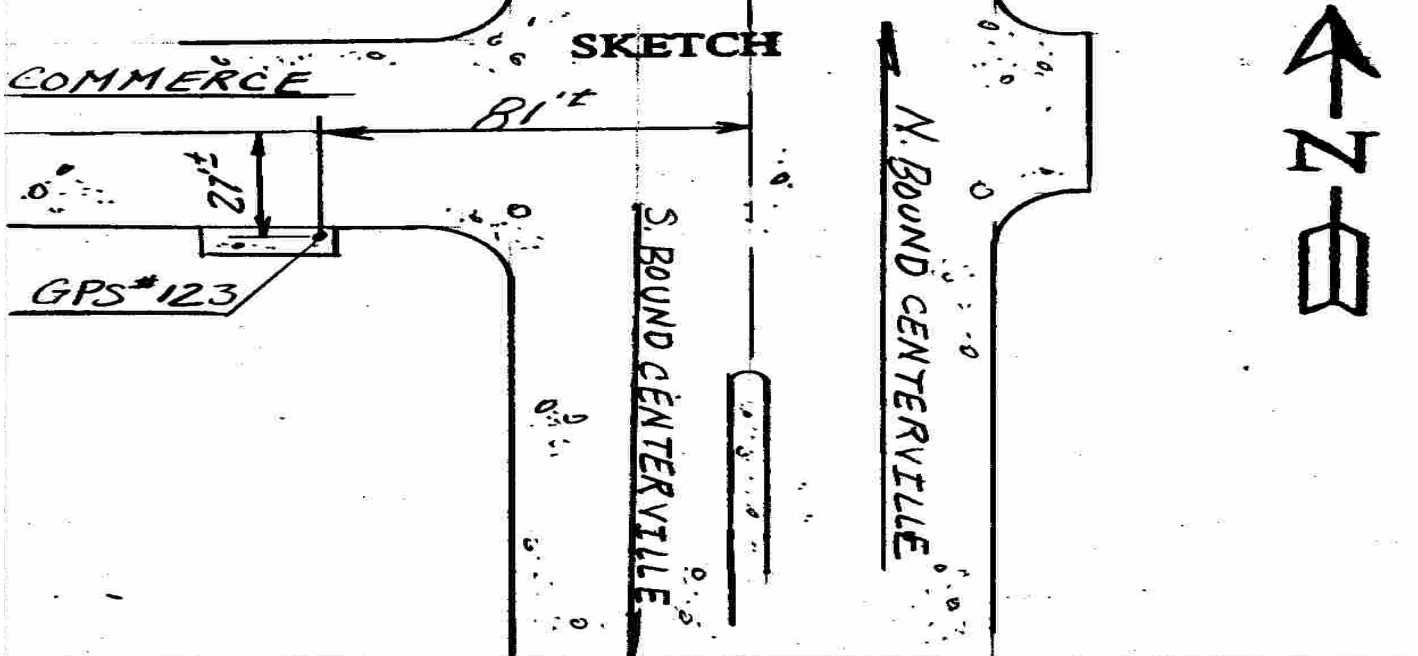
Station Designation ( Check applicable: <input checked="" type="checkbox"/> GEO. CNTRL. ___ Trav. PT. ___ BM )		Station PID, if any: GPS 123	DATE: 8/11/2005
Project Name: <b>Geodetic Monument</b>		Project Number: <b>GPS- 123</b>	
NAD83 Latitude: 32 54 31.21532		NAD83 Longitude: 96 35 57.48933	
Observation Session Time		114.692 ft./meters	
Sched. Start: _____ Stop: _____		NAD83 Orthometric Height	
Actual Start: 8:11 AM Stop: 12:20 PM		140.461 ft./meters	
Epoch Interval = 5 Seconds		GEOID03 Geoid Height	
Elevation Mask = _____ Degrees		ft./meters	

Receiver Brand & Model: Topcon Hiper Lite-Internal Antenna		Comments: 4HRS. STATIC DATA RECORDED.	
Base: <input checked="" type="checkbox"/>	Rover:	NOTE: ELEV. IS ORTHO HT. CALC. BY OPUS.	
P/N: 01-840802-03	P/N: 01-840802-03		
S/N: 263-0243	S/N: 263-0233		
ID: 8QATEMNVCHS	ID: 8OKPW2V2RR4		

** ANTENNA HEIGHT **	Meters	Feet	NAD83 TXNC (4202)
Slant Height to ARP:	1.614	5.30'	N = 7018797.36986
Vertical Height to ARP:			E = 2551757.56708
			Z = 460.82913
Meters = Feet x (0.3048) Height Entered into receiver = 1.5819 Meters.	Note: &/or sketch ANY unusual conditions. be Very Explicit as to where and how Measured.		

LOG Checked By:	Data File Name(s):	(standard NGS Format = aaaadds.xxx) aaa=4 character ID, ddd=Day of Year,
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Remarks, Comments on Problems, Sketches, Pencil Rubbing, etc:



GPS 123, 2" BRASS DISK STAMPED 123 IS LOCATED ON BACK OF CURB ON INLET TOP @ THE S.W. COR. OF CENTERVILLE & COMMERCE APPROX. 27' SOUTH OF THE THE C/L OF COMMERCE. APPROX. 81' S.W. OF THE C/L OF CENTERVILLE & COMMERCE INTERSECTION. \*\*\*COG MAP GRID H-10\*\*\*MAPSCO 19A-Z\*\*\*

#### Table of Weather

Problem	Visibility	Temperature	Cloud Cover	Wind
NONE	GOOD	75°	P/CLOUDY	5 - 10 MPH
Any obstructions above 10° ?		( Y / N )	Radio Interference source nearby ? ( Y / N )	

RPLS: GSB P.Chief: TG Field Tech: KW Field Tech: CW

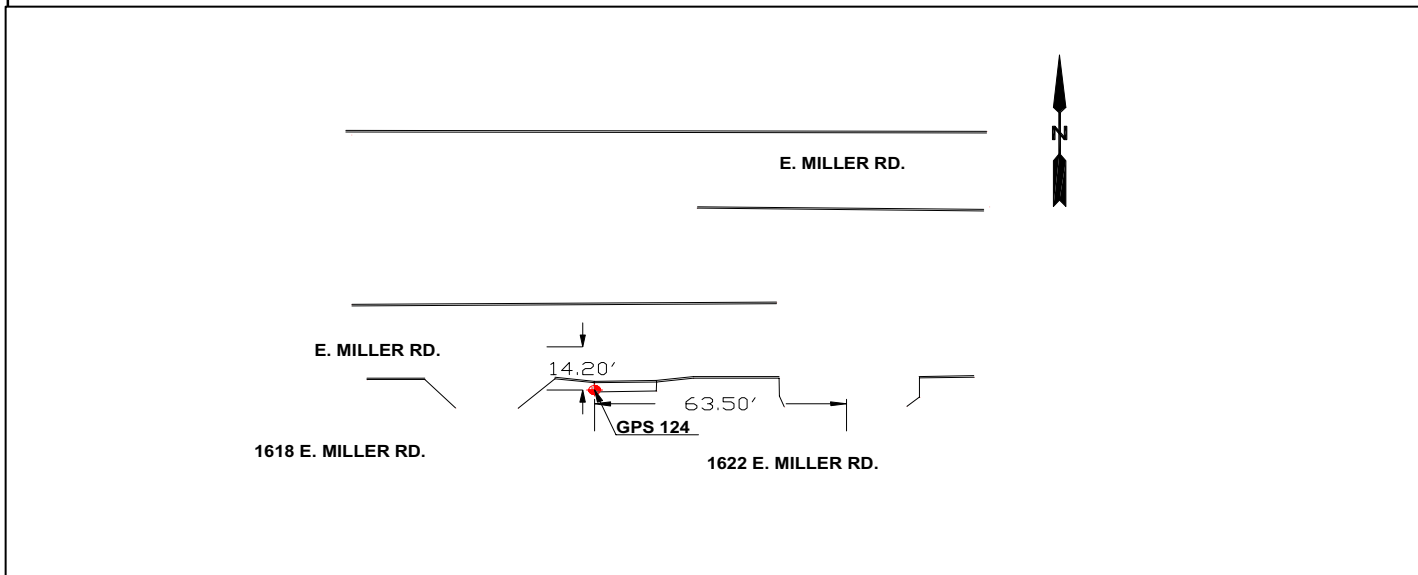
## GPS Station Observation Log

Station Designation ( Check applicable: <input checked="" type="checkbox"/> GEO. CNTRL. <input type="checkbox"/> Trav. PT. <input type="checkbox"/> BM )		Station PID, if any: GPS 124	DATE: 8/24/2005
Project Name: <b>Geodetic Monument</b>		Project Number: <b>GPS-124</b>	
NAD83 Latitude: 32 53 38.47769	NAD83 Longitude: 96 36 28.85962	Stat.4-Char ID: _____	Day of Year: _____
Observation Session Time		Session ID: (A,B,C,etc.)	
Sched. Start: _____ Stop: _____		Agency Full Name: <b>City of Garland</b>	
Actual Start: <u>7:15 AM</u> Stop: <u>11:34 AM</u>		Operator Full Name: Toney E. Gibson	
Epoch Interval = <u>10</u> Seconds		Phone# (972) 205 - 2157	
Elevation Mask = _____ Degrees		E-mail: gbreysac@ci.garland.tx.us	

Receiver Brand & Model: Topcon Hiper Lite-Internal Antenna		Comments: 4HRS STATIC DATA RECORDED.
Base: <u>X</u>	Rover:	NOTE: ELEV. 513.33 IS ORTHO HT. CALC. BY OPUS.
P/N:01-840802-03	P/N:01-840802-03	****513.30-LEVEL LOOP FROM NGSCS 1121 (NAVD 88)
S/N: 263-0243	S/N: 263-0233	
ID:8QATEMNVCHS	ID:8OKPW2V2RR4	

** ANTENNA HEIGHT **	<b>Meters</b>	<b>Feet</b>	<b>NAD83 TXNC (4202)</b>
Slant Height to ARP:	1.725	5.66	N = 7013420.41539
Vertical Height to ARP:			E = 2549179.82289
			Z = 513.30*
			CSF = 0.99985587
Meters = Feet x (0.3048) Height Entered into receiver = <u>1.6916</u> Meters.	Note: &/or sketch <b>ANY</b> unusual conditions. be <b>Very Explicit</b> as to where and how <b>Measured</b> .		

LOG Checked By:	Data File Name(s):	(standard NGS Format = aaaadds.xxx) aaa=4 character ID, ddd=Day of Year,
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GPS 124, 2" BRASS DISK STAMPED 124 LOCATED ON INLET TOP APPROX. 14' SOUTH OF E. BOUND MILLER RD C/L AND APPROX. 63' W. OF 1622 E. MILLER RD DRIVEWAY.

\*\*\*COG MAP GRID I-9\*\*\*MAPSCO 29A-G\*\*\*

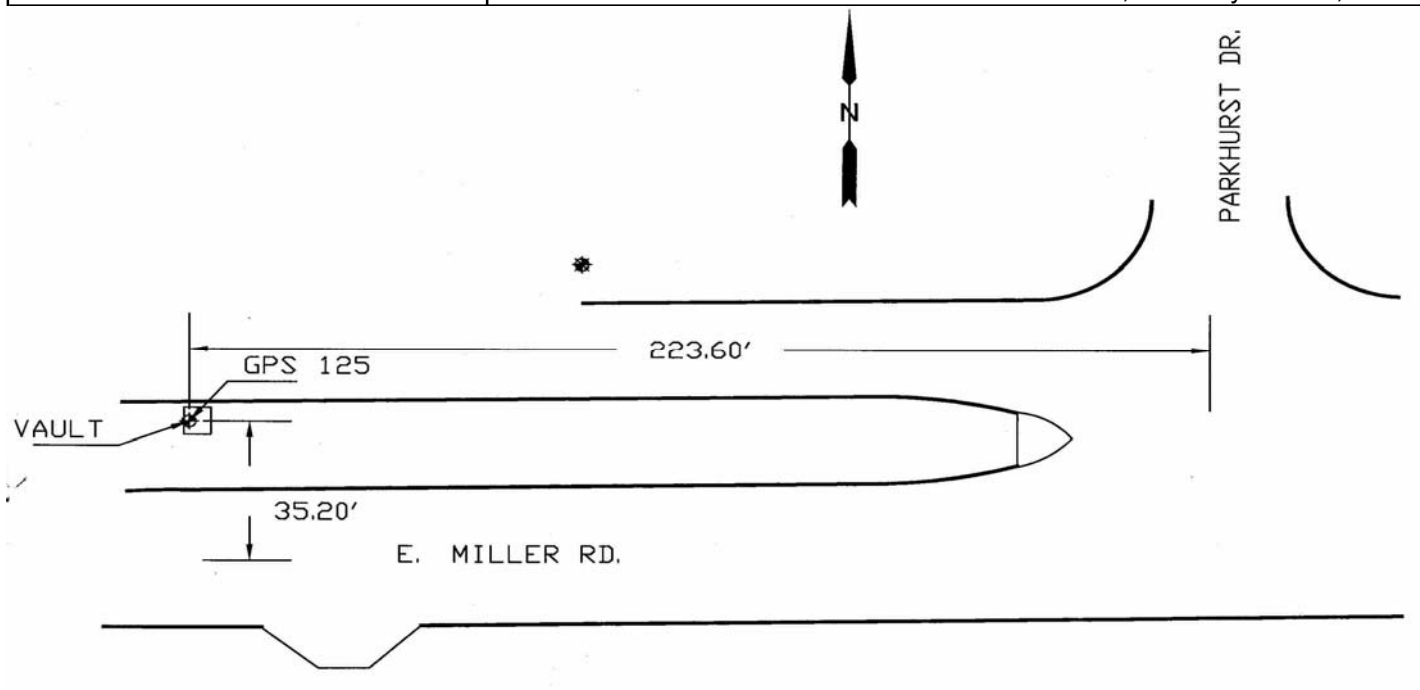
### Table of Weather

Problem	Visibility	Temperature	Cloud Cover	Wind
NONE	GOOD	86°	CLEAR	5 - 10 MPH
Any obstructions above 10° ?		( Y / N )	Radio Interference source nearby ? ( Y / N )	

RPLS: GSB P.Chief: TG Field Tech: KW Field Tech: CW

## GPS Station Observation Log

Station Designation ( Check applicable: <input checked="" type="checkbox"/> GEO. CNTRL. <input type="checkbox"/> Trav. PT. <input type="checkbox"/> BM )		Station PID, if any: GPS 125	DATE: 8/24/2005
Project Name: <b>Geodetic Monument</b>		Project Number: <b>GPS- 125</b>	
NAD83 Latitude: 32 53 39.30579		NAD83 Longitude: 96 36 58.95979	
Observation Session Time		143.696 ft./meters	
Sched. Start: _____ Stop: _____		NAVD88 Orthometric Height	
Actual Start: <u>7:27 AM</u> Stop: <u>11:38 AM</u>		169.521 ft./meters	
Epoch Interval = <u>5</u> Seconds		GEOID03 Geoid Height	
Elevation Mask = _____ Degrees		ft./meters	
Receiver Brand & Model: Topcon Hiper Lite-Internal Antenna		Comments: 4HRS. STATIC DATA RECORDED.	
Base: _____		Rover: <u>X</u>	
P/N:01-840802-03		P/N:01-840802-03	
S/N: 263-0243		S/N: 263-0233	
ID:8QATEMNVCHS		ID:8OKPW2V2RR4	
** ANTENNA HEIGHT **		Meters	Feet
Slant Height to ARP:		1.555	5.10
Vertical Height to ARP:			
Meters = Feet x (0.3048)		Note: &/or sketch <b>ANY</b> unusual conditions. be <b>Very Explicit</b> as to where and how <b>Measured</b> .	
Height Entered into receiver = <u>1.5210</u> Meters.			
LOG Checked By: _____		Data File Name(s): _____ (standard NGS Format = aaaadds.xxx) aaa=4 character ID, ddd=Day of Year,	



GPS 125, 2" BRASS DISK STAMPED 125 IS LOCATED ON TOP OF 5' X 5' CONC. VAULT IN THE C/L MEDIAN OF MILLER RD. APPROX. 223.60' W. OF THE PARKHURST DR. APPROX. 35.20' FROM THE E. BOUND C/L OF MILLER RD. \*\*\*COG MAP GRID I-9\*\*\*MAPSCO 29A-F\*\*\*

### Table of Weather

Problem	Visibility	Temperature	Cloud Cover	Wind
NONE	GOOD	86°	CLEAR	5 - 10 MPH
Any obstructions above 10° ?		( Y / N )	Radio Interference source nearby ? ( Y / N )	
RPLS: <u>GSB</u>	P.Chief: <u>TG</u>	Field Tech: <u>KW</u>	Field Tech: <u>CW</u>	