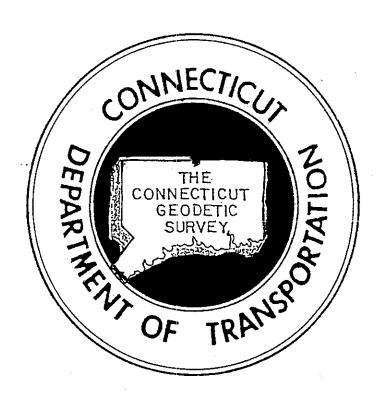
CONNECTICUT GEODETIC SURVEY CALIBRATION BASE LINE



TOWN OF WINCHESTER

PUBLISHED BY
CONNECTICUT DEPARTMENT OF TRANSPORTATION
CENTRAL SURVEYS
1994

WINCHESTER

EDM BASE LINE

STANDARD OPERATING PROCEDURES

<u>Location:</u> Connecticut Route 8 (Northbound lane) just north of the Torrington Town Line

This calibrated base line was set and calibrated by guidelines set forth by the National Geodetic Survey and the results of this calibration are published by the Connecticut Geodetic Survey.

Because of the location of the base line, on a limited access highway, the following guidelines must be strictly adhered to when using this site.

- 1. A permit must be obtained for use of this base line by completing the enclosed permit applications and forwarding them to the Permits Section located in District 4, Thomaston, CT (telephone 585-2795).
- 2. Orange safety vests will be worn by all personnel at all times while at the base line site.
- 3. Safety signs (Surveyors on Pavement) must be located prior to the base line to warn oncoming traffic.
- 4. Vehicles must be parked far enough from the travel portion of the road as not to impede traffic flow or vehicle sight line.
- 5. At no time must the turnarounds that are posted for "Authorized Vehicles Only" be used for turn around purposes. All vehicles must go to the next interchange and use the interchanges for purposes of reversing travel.
- 6. The continued use of this base line by all personnel will depend on strict adherence to procedures outlined above.

Date:		State o	-1. Rev. 5/91 f Connecticut t of Transportation	This form must be filled completely. Mail or deli CONNDOT, District4, Permi	ver to:
Fee: (for DOT use) N/A		_	ON FOR PERMIT led or Recovered Paper	359 South Main Street Thomaston, CT 06787	
LOCATION OF PROPOSED W	OPK				
		e: ⁸ (c)	Street Name & No.		
				& No	
(f) Distance and direction from no					St/Rd·
				_	
Application is hereby made to: (De DISTANCE METER (EDM)				- Old District Distri	·
DISTANCE METER (EDM)	KANGE LOC	ATED ON ROUTE	o (NORTHBOOND)		
	1 1	· CTGS			
		▲ CTGS 6515			
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Ĺ					
T	N N	▲ CTGS 65I4		·	
1	NORTHBOUND	6514	·		
	<u>†</u>				
	9				
	ω				
	ROUTE				
	G	▲ CTGS 6513		•	
	1 1				
	CONN.	* CTCC	•		
	Ö	▲ CTGS 6512			
Name of Surety Company & amou	nt of Bond		Permit to be issued to	n·	
N/A	in or Dona				
Party to whom Bond is issued:	•		Name		
N/A			&		
Print Name N/A			-		
Signed	Pho	пе	Address		
Party to whom Insurance is issued:			Town	ZIP_	· · · · · · · · · · · · · · · · · · ·
Print Name			The owner of the pro	perty for whom this work is being perfe	ormed
Finit Name				uture maintenance responsibility for the	
Signed	Pho	ne	_ specified in the perm	it.	
Approximate Time Required	Desired	Starting Date	Print Owner's Name	N/A	
••	_ 33-	5			
Complete Plans and Specifications	must be subm	itted for major	Address		
encroachment permits. On other wo		•	Signed	Phone	

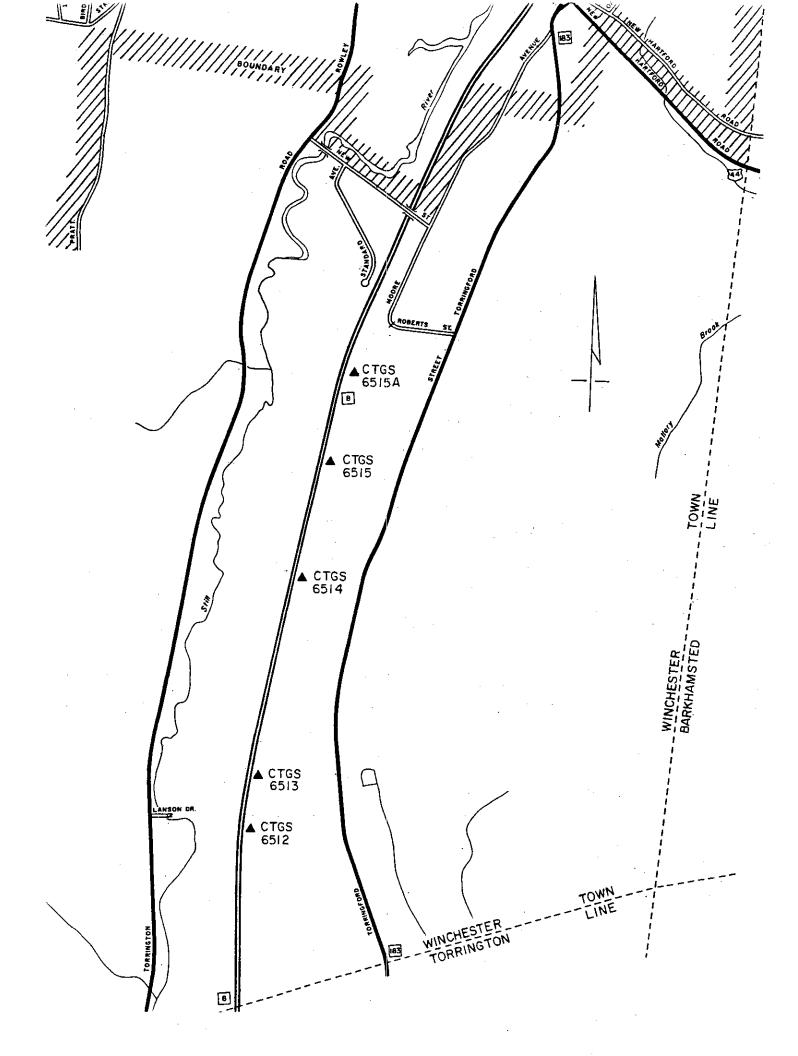
in space above or on back side of application.

CON-32 REV. 1/89 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

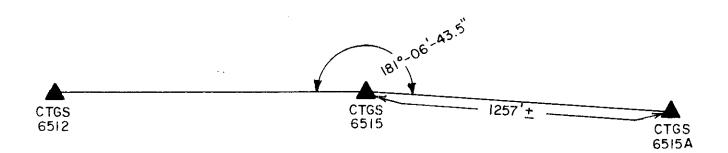
CERTIFICATE OF INSURANCE

This is to certify that the Insurance Company named herein has issued to the named insured the policies listed below, that these policies are written in accordance with the Insurance Company's standard policies and endorsements, except as indicated below or as noted in the attachments hereto, which policies and endorsements will be made available to the Department of Transportation upon request, that they provide coverages and limits of liability shown with respect to the hazards indicated, that they are in force on this date, that all deductible amounts are indicated below, and that this Certificate is furnished in accordance with and for the purpose of satisfying the requirements of the Department of Transportation in connection with the award and performance of any contract or agreement, or the issuance of any permit or authorization by the Transportation Commissioner or duly authorized agent. The Insurance Company agrees to investigate and defend the insured against all claims for damages, even if groundless.

ADDRESS	 -			′	STATE
					
Hazarda	Policy	Effective	Expiration		d Limits of Liability
***************************************	Number	Date	Date	All Persons/All Damages	and Property Damage Liabili
		 		Each Accident or Occurrence	AGGREGATE
Protective Liability for and in the name of the State of Conn. (1) See Below					
B Contractor's Public Liability					
C Contractor's Protective Liability					
Contractual Liability (1) (2) See Below					
E Completed Operations Liability					
Explosion, Collapse, or Underground Damage Liability					
Automobile Liability Owned Automobiles Hired Automobiles Non-owned Automobiles					
H Reilroad Liability		<u> </u>			
!		 			
J Valuable Papers and Records	XXXXXX	AXXXXX	XXXXXX	Danas	
Valuable Papers and Records				Possession	All Other
K "Workers' Compensation					
State of Connecticut is Named As Additional Compensation Commissioner's Certificate at	Insured		<u>-</u>	Statutory Covers	iges and Limits
Engineering		a Agreement I		Other Specif	
ARTY FOR NOTICE Bureau:		Unit:		Title:	porture inclosing then
) It is agreed that the herein named overnmental immunity in the adjustin surance Company will bill premium;) LIABILITY - The insured shall at a lift their respective officers, agents, es, and compensation arising out of demployees of said State or Depart stained by or alleged to have been said or personal (including property of	ns and audit cha ill times indemnis and employees, injuries (includi timent or of the instance by the	rges earned u fy and save ha on account or ing death) sus insured, his su	inder the prot rmless the Sta any and all c rtained by or a	ought against the State, at ective liability policy to the of Connecticut, the to laims, damages, losses, i laiged to have been sustr or materialmen, and fro	nd It is further agreed that the above named insured epartment of Transportati litigation, expenses, coun ained by the officers, ager
cluding but not limited to any neglect e contractor or permittee, any subc agaged in the performance of the con-	in safeguarding ontractor, mater	the work or the	sed in whole o rough the use one directly	or in part by the acts, omiss of unacceptable materials or indirectly employed b	ny other person or proper sions, neglect of the Insure sin constructing the work, y them or any of them wh
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ANGULAR BASELINE RANGE

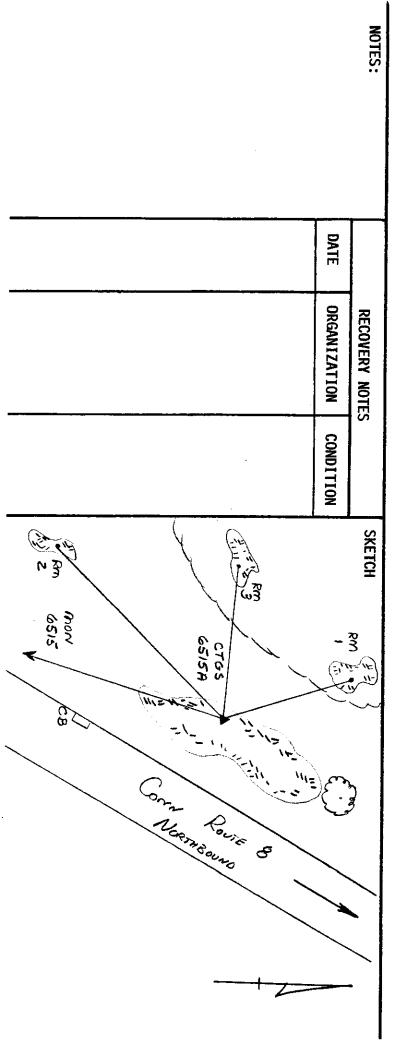


METERS METERS DATE: DATE:	ELEV. 1929 NATIONAL GEODETIC	KM 1 31./1	- ω	RM 2 41.99	CGS 6515 ± 1,257		Φ.	LOZG	GEOGRAPHIC POSITION	Y= DATE:	(METERS)	Y = DATE:	STATE PLANE COORDINATES ×=	27 NORTH AMERIC	COMPUTATION VOLUME	DATE DESCRIBED December 1	DATE SET December 1993	TOWN Winchester
METRIC USING IMeter eq P- Inc	TIC VERTICAL DATUM(NG.V.D	149 38 17	37	05	00 00 00	DATE:	Φ "	LONG.	GEOGRAPHIC POSITION	Y" DATE:	(METERS)	Y = DATE:	STATE PLANE COORDINATES	AN DATUM (NA.D. 27)	BOOKS	1993 USGS MAP	QUAD	CONNECTICUT
METRIC CONVERSION FACTOR USING THE U.S. SURVEY FOOT (Meter equals(Exactly) 39.37 inches P-Indicates Preliminary Value	29) ELEV. 1988		- · ·	•	PLANE AZIMUTH OBJECT	DATE	Фи			NORTHING = DATE:	(METERS	NORTHING = DATE:	STATE	27) 1983 NORTH	C-2 T-52	Winsted	QUADRANGLE 410731 Winsted	GEODETIC Litchfield
METERS DATE:	TH AMERICAN VERT				DISTANCE FT (10/	Ψ "			O M N	ERS)	D m Z		AMERICAN	ROW MAP	Horizonta I 3rd -	ORDER OF ACCURACY	SURVEY
FEET METERS DATE:	NORTH AMERICAN VERTICAL DATUM (N.A.Y.D 88)				DIRECTION PLANE AZIMUTH (O'North)	DATE:	if	LONG.	GEOGRAPHIC POSITION	NORTHING = EASTING = DATE:	(METERS)	NORTHING = EASTING = DATE:	PLANE	DATUM (NAD.83)		<u> 3rd - Class 1 (1:10,0</u> 00)	URACY	6515A

proceed northerly along CT Route 8 for 2.07 miles to the ledge and the station on the left. To reach the station in Winchester from the intersection of CT Route 8 (Northbound) and Pinewoods Road (Exit 46)

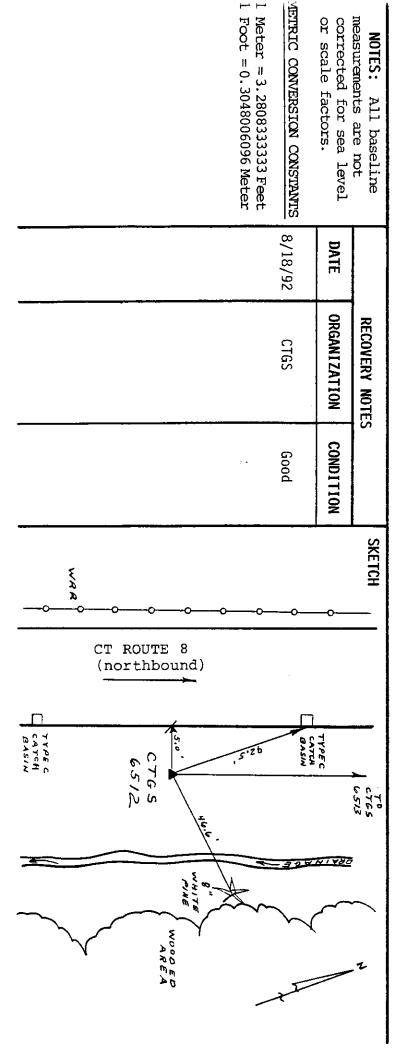
of the top center of a catch basin and 17.1 feet south of a 4 inch maple tree. It is located in the median, 52 feet west of the center line of CT Route 8 (Northbound), 44 feet north-northwest

- RM 1: North of Station: A drill hole in a hex head brass bolt in a 1/4 inch drill hole set in a 52" x 48" partially exposed ledge. It is located along the north-south tree line, 72.5 feet west of the center line of CT Route 8,
- RM 2: and 59 feet southwest of a 6 inch black birch tree. is located in an open area 59 feet northwest of the center line of CT Route 8, 44 feet northwest of a catch basin Southwest of Station: 24.8 feet north-northwest of a 6 inch black birch tree and 55.5 feet northwest of the west edge of the pavement. A drill hole in a hex head brass bolt in a 1/4 inch drill hole in a $24^{\prime\prime\prime}$ x $12^{\prime\prime\prime}$ ledge.
- RM 3: feet west of a 6 inch black birch tree. Northwest of Station: is located 60.5 feet north of a catch basin, 54 feet northwest of the west edge of northbound CT Route 8 and 26.5 A drill hole in a hex head brass bolt in a 1/4 inch drill hole in a 48" x 12" ledge.



	Comments	ELEVATION						6514 790.943 6515 793.112 9	6513 798.437 6515 793.112 3,4	6513 798.437 6514 790.943 2,4	796.511 6515 793.112	6512 796.511 6514 790.943 2,9		FEET TO STATION ELEVATION TO STATION ELEVATION	NATIONAL GEODETIC SURVE	COMPUTATION VOLUME BOOKS V-1	DESCRIBED August 1992	TOWN Winchester COUNTY DATE SET August 1992 ONADRANILE	
	OBJECT						-	984.320	3,444.867	2,460.547	3,937.007	2,952.687	492.140	HORIZONTAL FEET	Y — CAL				
	DISTANCE FEET							300.0213	1,049.9975	749.9761	1,200.0021	899.9807	150.0046	L DISTANCE METERS	-IBRATION			Litchfield 410731 Winsted	
	T DIRECTION	-						984.322	3,444.871	2,460.558	3,937.008	2,952.692	492.144	FEET L	BASE LINE	R.O.W. MAP	Horizontal	ORDER OF ACCURACY	
	N PLANE							300.0220	1,049.9987	749.9796	1,200.0025	899.9823	150.0058	DISTANCE METERS	DATA	P	ntel	ACCURACY	; ;
`.	E AZIMUTH							.0003	.0003	.0003	.0006	.0003	.0003	STANDARD ERROR FEET					

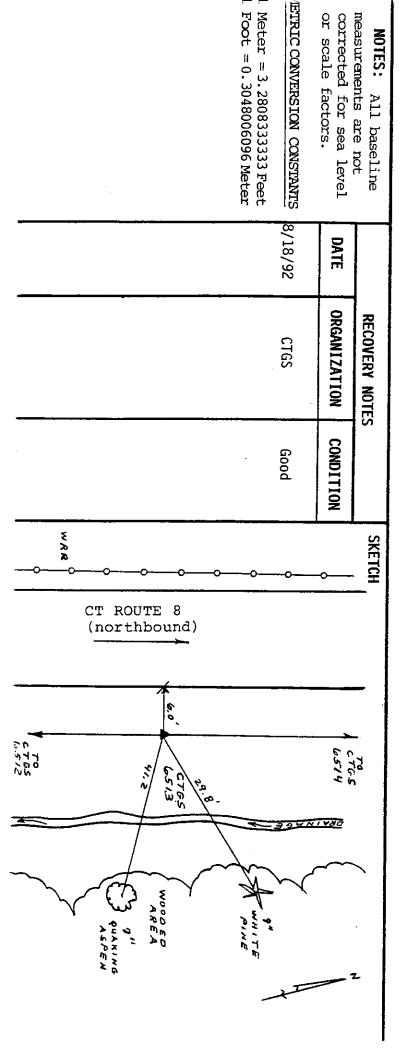
DESCRIPTION:. The Station Mark is a standard CTGS brass disk, stamped 6512, set into the top of a square southwest of an 8 in. white pine tree, and 5.0 ft. southeast of the east edge of the bituminous pavement. CTGS brass disk, stamped 6512, set into an irregular mass of concrete which is 5 ft. below the ground. in Torrington, proceed north on CT. Route 8 for 1.03 mi. to the station on the right (east). reinforced concrete post which is recessed 12 in. below the ground. The underground mark is a standard To reach the station from the intersection of CT. Route 8 (northbound) and Pinewoods Road (exit 46) The station is located 92.5 ft. southwest of the top center of a TYPE C catch basin, 46.6 ft.



Wi SET AU DESCRIBE TATION VI	ster 1992 gust gust S11 511	GEOD STATION		HORIZ FEET 2.140 2.687	Litchfield 410731 Winsted Winsted Winsted CALIBRATION ONTAL DISTANCE METERS 150.0046 899.9807	ION R OF OF INE	ACCURACY ntal p DISTANCE METERS 150.0058 899.9823 1.200.0025	STANDARD FAROR TEET .0003
	796.511		798.437	492.140		492.144	150.0058	.0003
6512	796.511	6514	790.943	2,952.687	899.9807	2,952.692	899.9823	.0003
6512	796.511	6515	793.112	3,937.007	1,200.0021	3,937.008	1,200.0025	.0006
6513	798.437	6514	790.943	2,460.547	749.9761	2,460.558	749.9796	.0003
6513	798.437	6515	793.112	3,444.867	1,049.9975	3,444.871	1,049.9987	.0003
6514	790.943	6515	793.112	984.320	300.0213	984.322	300.0220	.0003
	3							
	NOLLYASTS	TON		OBJECON	acid acid acid	TO T	BI AND	Table 14.6 V
Feet Feet Heters Date	L Da tum	Comments						Į.

DESCRIPTION: The Station Mark is a standard CTGS brass disk, stamped 6513, set into the top of a reinforced Torrington, proceed north on CT. Route 8 for 1.12 miles to the station on the right (east).

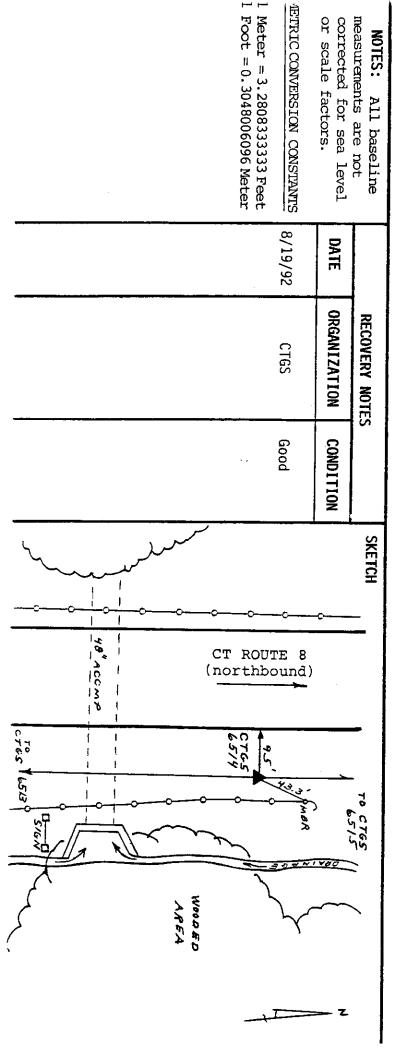
The station is located 41.2 feet northwest of a 7 inch aspen tree, 29.8 feet west of a 9 inch pine tree, and 6.0 feet southeast of the eastern edge of the bituminous pavement. disk, stamped 6513, set into an irregular mass of concrete which is 5 feet below the ground. — To reach the station from the intersection of CT. Route 8 (northbound) and Pinewoods Road in concrete post which is recessed 12 inches below the ground. The inderground mark is a standard CTGS brass



AZIMJTH	PLANE A	DIRECTION	e e	DISTANCE FEET	OBJECT		Cosmonts	Dat	Mean Sea Level Feet Heters Date
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	-		-						
.0003	300.0220	984.322 300	36	300.0213	984.320	793.112	6515	790.943	6514
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.0003	749.9796	2,460.558 749	2,46	749.9761	2,460.547	790.943	6514	798.437	6513
.0006	1,200.0025	3,937.008 1,200	3,93	1,200.0021	3,937.007	793.112	6515	796.511	6512
.0003	899.9823	952.692 899	2,95	899.9807	2,952.687	790.943	6514	796.511	6512
.0003		492.144 150	49	150.0046	492.140	798.437	6513	796.511	6512
STANDARD ERROR FEET	-	FEET DISTANCE METERS		AL DISTANCE	HORIZONTAL FEET	ELEVATION FEET	TO STATION	ELEVATION FEET	ROM STATION
	ГА	BASE LINE DATA	1	LIBRATION	SURVEY — CAL		VAL GEODETIC	NATIONAL	
		R.O.W. MAP			V-1	BOOKS		DEUNIS	COMPUTATION VOLUME
		Horizontal_		Winsted		USGS MAP	1992	August	DATE DESCRIBED
	ACY	ORDER OF ACCURACY		410731 Winsted		QUADRANGLE		August 1992	DATE SET AU
	14	6514		, , , , , , , , , , , , , , , , , , ,				Winchester	

DESCRIPTION: The Station Mark is a standard CTGS brass disk, stamped 6514, set into the top of a square reinforced concrete post which is recessed 12 inches below the ground. The underground mark is a standard of a wire rope rail, and 9.5 feet east of the east edge of the bituminous pavement. Ends", 63.5 feet north of the extended centerline of a 48 inch ACCMP, 43.3 feet southwest of the north end in Torrington, proceed north on CT. Route 8 for 1.61 miles to the station on the right (east).

The station is located 85.4 feet northeast of the west support post of a sign reading "Expressway". CTGS brass disk, stamped 6514, set into an irregular mass of concrete which is 5 feet below the ground. To reach the station from the intersection of CT. Route 8 (northbound) and Pinewoods Road (exit 46)



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						NGVD 29	113	Feet 793.
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				,				
	·							
4								
.0003	300.0220	984.322 30	300.0213	984.320	793.112	6515	790.943	6514
.0003	1,049.9987	3,444.871 1,04	1,049.9975 3,	3,444.867	793.112	6515	798.437	6513
.0003	749.9796	2,460.558 74	749.9761 2,	2,460.547	790.943	6514	798.437	6513
9000	1,200.0025	3,937.008 1,20	1,200.0021 3,	3,937.007	793.112	6515	796.511	6512
.0003	899.9823	2,952.692 89	899.9807 2,	2,952.687	790.943	6514	796.511	6512
.0003		492.144 15	150.0046	492.140	798.437	6513	796.511	6512
STANDARD ERROR FEET	DISTANCE METERS	SLOPE DISTA	AL DISTANCE METERS	HORIZONTAL FEET	ELEVATION FEET	NO STATION	ELEVATION FEET	ROM STATION
	TA	BASE LINE DATA	LIBRATION B	ΕΥ — CA	ETIC SURV	NAL GEODETIC	NATIONAL	
		R.O.W. MAP		V-1	BOOKS		TUNE.	EMULION NOITATURA
	2nd	₽.	Winsted		TAN SOSU	1992	August	DATE DESCRIBED
	LACY	ORDER OF ACCURACY	731 Winsted	A10731	QUADRANGLE		August 1992	SET
	J	STATION 6515	Litchfield		YINUCO YIN		Winchester	TW NAOT

DESCRIPTION: The Station Mark is a standard CTGS brass disk, stamped 6515, set into the top of a square reinforced concrete post which is recessed 12 inches below the ground. The inderground mark is a standard CTGS brass disk, stamped 6515, set into an irregular mass of concrete which is 5 feet below the surface of the ground.

To reach the station from the intersection of CT. Route 8 (northbound) and Pinewoods Road (exit 46)

in Torrington, proceed north on CT. Route 8 for 1.78 miles to the station on the right (east),

The station is located 53.0 feet west of a 6 inch white birch tree, 25.3 feet northwest of a
7 inch white pine tree, 4.5 feet east of the east edge of the bituminous pavement, and 135.0 feet southwest of the top center of a TYPE C catch basin.

