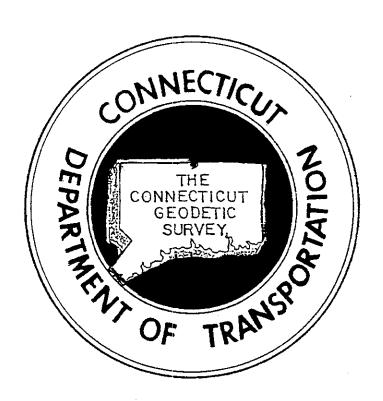
### CONNECTICUT GEODETIC SURVEY CALIBRATION BASE LINE



### COLCHESTER / LEBANON

PUBLISHED BY
CONNECTICUT DEPARTMENT OF TRANSPORTATION
CENTRAL SURVEYS

1994

### **COLCHESTER - LEBANON**

### **EDM BASE LINE**

### STANDARD OPERATING PROCEDURES

<u>Location:</u> Connecticut Route 2 (Eastbound lane) at the Colchester-Lebanon 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 2, Norwich, CT (telephone 823-3230).
- 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 Persons 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:				IT-1 Rev. 5/91 c of Connecticut	completely.	st be filled out Mail or deliver to:
207	. 1		•	ent of Transportation	CONNDOT, Dist	rict 2, Permit Section
Fee: (for DOT use				TION FOR PERMIT  sycled or Recovered Paper	Norwich, CT	
	N/A			<u> </u>		
LOCATION OF	PROPOSED W	VORK:	. 2 (	c) Street Name & No		
(a) Town: <u>Col</u>	cnester	(D) KOUU da af Wiahumu	(e) Located F	Between Utility Poles No.		& No.
(d) (Circle One)	N. W. SI	de of righway.	ing road 2	.12Miles (	N. S.(E) W.) of Che	estnut Hill SuRo
Application is her	reby made to: (D	escribe fully &	include sketch of	attach plans) USE OF	- A GIBIBIATED	
DISTANCE ME	ETER (EDM) E	RANGE LUCA	LED ON ROUTE	2 (SOUTHBOUND)		
	<del></del>	CONN	ROUTE 2	WESTBOUND	1	
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		CONN.	ROUTE 2	EAST BOUND -	-	A /
<u></u>	▲ CTGS 6508	▲ CTGS 6509			▲ CTGS 6510	ACTGS RAN
						в 3559
					COLCHE	
					NON NON	
		,			HESTER LINE	
					NE.	ξ Ž
			•			
Name of Surety		ount of Bond		Permit to be issued	to:	
Party to whom B	N/A	<u></u>		Name		
				&		
Print Name	N/A			Address		·
Signed			опе			
Party to whom I	nsurance is issue	:d:				
Print Name				The owner of the pr	roperty for whom this	work is being performed
Signed		Ph	one			sponsibility for the work
Approximate Ti			d Starting Date		e <u>N/A</u>	
	•			1		

Signed

Phone\_

Complete Plans and Specifications must be submitted for major encroachment permits. On other work a careful sketch shall be shown in space above or on back side of application.

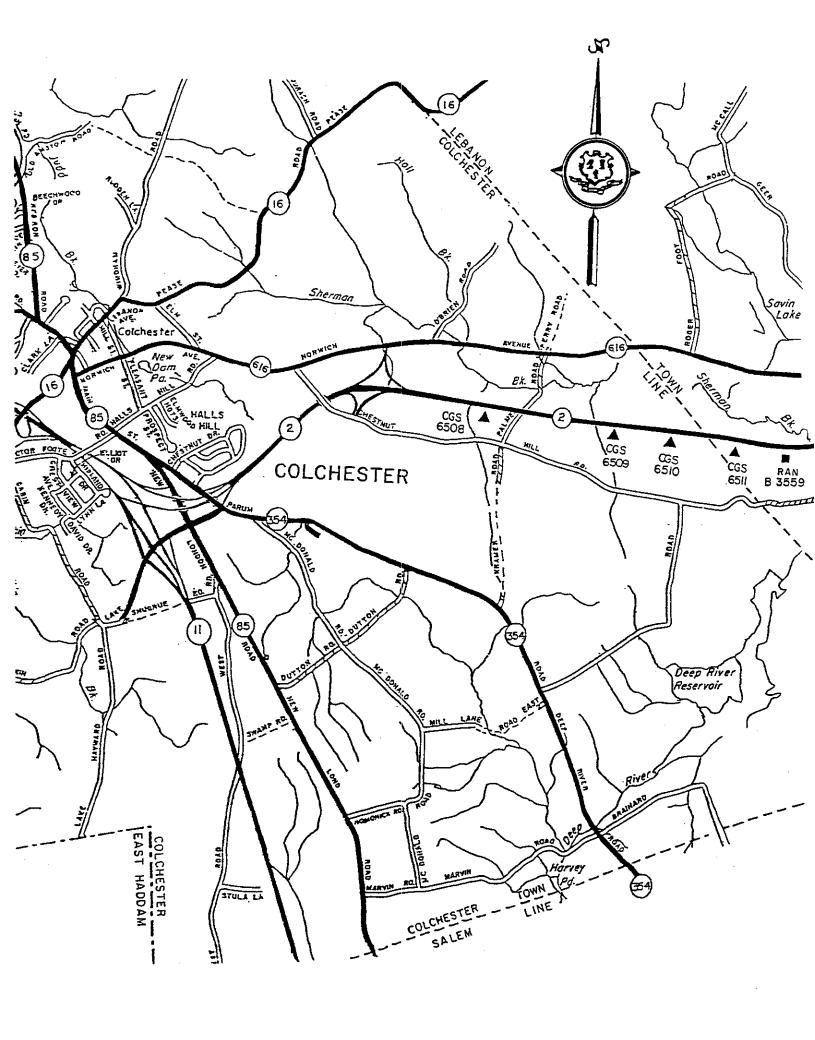
### CON-32 REV. 1/89 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

### **CERTIFICATE OF INSURANCE**

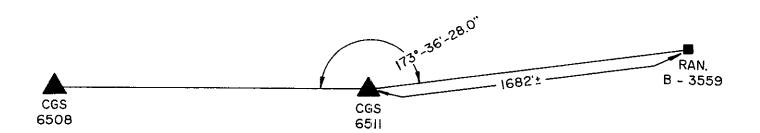
This is to certify that the Insurance Company named herein has issued to the named insured the policies listed below, that these policies are written in accordance with the Insurance Company's standard policies and endorsements, except as indicated below or as noted in the attachments hereto, which policies 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.

		·····	CITY	/	STATE
<del></del>				Coverages and	d Limits of Liability
Hazards	Policy	Effective	Expiration		and Property Damage Liabilit
11424105	Number	Date	Date	All Persons/All Damages 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	<del></del>	1			
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 Railroad Liability					
		1.5			
J Valuable Papers and Records	xxxxx	XXXXXX	XXXXXX	Possession	All Other
Valuable Papers and Records					
K **Workers' Compensation		T		Statutory Cover	ages and Limits
	_		•	se Order) Demolition	
Permit Work No.	☐ Lea	intenance Wor ise Agreement ject No	Rights of Wa	Agree No.	ify
Permit Work No.	☐ Lea	ise Agreement	Rights of Wa	Agree No.	ify
Permit Work No	☐ Lea ☐ Pro ed Insurance Co	ject No	Rights of Wa	Other Spec & including all	ify operations incidental ther
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Permit Work No.  Engineering  ARTY FOR NOTICE Bureau:  It is agreed that the herein name overnmental immunity in the adjustrance Company will bill premit LIABILITY - The insured shall and their respective officers, agent and compensation arising out and employees of said State or Dejustained by or alleged to have bee all or personal (including property cluding but not limited to any neglee contractor or permittee, any sugaged in the performance of the costart work or the actual start when	ed Insurance Costment of claims: ums and audit cl tall times indem s, and employee of injuries (inclusartment or of the of said State or lect in safeguardii becontractor, mai ontract, or agreei ichever occurs fi	unit:  mpany waives or in the defens harges earned nify and save h s, on account uding death) se e insured, his se e public, any of Department) ca ng the work or t terialman, or a ment, or work a irst until the co	governmenta se of any suit I under the pr armiess the s of any and all ustained by o subcontracto or all persons used in whole hrough the us nyone direct under a permit ompletion as	Other Spec & including all Title:  Il immunity as a defense a prought against the State, otective liability policy to state of Connecticut, the E I claims, damages, losses or alleged to have been sus rs, or materialmen, and fron or near the work, or by e or in part by the acts, omis se of unacceptable materially or indirectly employed to indirectly employed to certified by the Department.	and will not use the defense and it is further agreed that the above named insure operation, expenses, countained by the officers, age om injuries (including de any other person or propessions, neglect of the Insured by them or any of them were time from the date ordernt of Transportation.
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(AUTHORIZED AGENT'S NAME & SIGNATURE)



### ANGULAR BASELINE RANGE



FEET METERS METERS DATE:	ELEV. 1929 NATIONAL GEODET	RM 2 21.95	RM 1 64.60		CTGS 6511 ± 1,682.32	ATE:	P "	LAT.	OFFICE POSITION	X = DATE:	(METERS)	Y = DATE:	STATE PLANE COORDINATES (FEET)	1927 NORTH AMERICAN	COMPUTATION VOLUME	DATE DESCRIBED December 1	DATE SET	TOWN Lebanon
METRIC CONVERSION F. USING THE U.S. SURVE [Meter equals(Exactly) 39.37] P-Indicates Preliminary	GEODETIC VERTICAL DATUM(NG.V.D 29)	261 02 56	177 46 01	35	ORECTION PLANE AZIMUTH  (O°South)	ATE:	LONG.	LAT.	SPADUIC	X" Y TO THE TO T	(METERS)	Y= DATE:		AN DATUM (N.A.D. 27)	BOOKS C-2	1993 U.S.G.S MAP Fit	QUADRANGLE 410	CONNECTICUT GE
RSION FACTOR FEET  S. SURVEY FOOT METERS  tly) 39.37 inches DATE:  reliminary Value	ELEV. 1988 NORTH AMERICAN VI				OBJECT DISTANCE FT	TE:	P.	LAT.	GEORDADUIC BOSITION	NORTHING = EASTING = DATE:	(METERS)	DATE:		1983 NORTH AMERICAN	ROW MAP	Fitchville Horizonfa	410721 Norwich ORDER OF ACCURACY	GEODETIC SURVEY
METERS DATE:	NORTH AMERICAN VERTICAL DATUM (N.A.V.D 88)				DIRECTION   PLANE AZIMUTH		P. "	· ·	GEOGRAPHIC POSITION	NORTHING = EASTING = DATE:	(METERS)	NORTHING = EASTING = DATE:	STATE PLANE COORDINATES (FEET)	DATUM (N.A.D.83)	70-08 Sheet 3	7a -	CCURACY	Random B-3559

DESCRIPTION: reinforced concrete post which is flush with the surface of the ground. The Station Mark is a standard CHD Boundary bronze disk, stamped B-3559, set into the top of

CT Route 2 for 3.34 miles (entering Lebanon) to the station on the right (south). To reach the station from the intersection of Chestnut Hill Road and CT Route 2 in Colchester, proceed east on

of a 6 inch red cedar tree, 36.5 feet south of the painted center line of CT Route 2 (eastbound) and 22.0 feet north The station is located 157.0 feet east of the eastern anchor point of a wire rope guide fence, 64.6 feet west

of a red cedar tree.

above the ground. It is located 221.5 feet east of the east end of a wire rope guide fence, 44.0 feet south East of Station: of the painted center line of CT Route 2 (eastbound) and 19.7 feet south of the south edge of the pavement. A drill hole in a railroad spike driven into a 6 inch cedar tree at a height of 21 inches

RM 2: of the painted center line of CT Route 2 (eastbound) and 12.4 feet south of the south edge of the pavement. above the ground. It is located 157.0 feet east of the east end of a wire rope guide fence, 58.5 feet south South of Station: A drill hole in a railroad spike driven into a 6 inch cedar tree at a height of 10 inches

RP 1: Northeast of Station: northwest of the 6 of the ground. It is located 26.5 feet south of the painted center line of Ct Route 2 (eastbound), 48.0 feet 175.5 feet east of the east end of a wire rope guide fence. inch cedar tree mentioned in RM 1, 2.1 feet south of the sourth edge of the pavement and A drill hole in the top of a 3/4 inch square steel pin driven l inch below the surface

		from B-3559 to RM 2 is a slope distance.	B-3559 to CGS 6511 is approximate and not to be used for calibration purposes. The distance given	angular measurement only. The distance given from	NOTES: Random B-3559 is
			12/15/93	DATE	
			CIGS	ORGANIZATION	RECOVERY NOTES
			Good	CONDITION	5
BRUSH & TREES CEDAR MAMZ	CT ROUTE 2 EAST BOUND	RED PINE GRASS MEDIAN A KTREES	CT ROUTE 2 WESTBOUND		SKETCH

TOWN COlci	Colchester August 199 RIBED August	1992	OOUNTY  QUADRANGLE USGS MAP  V-1		New London 410721 Gilead Colchester	STATION 6: ORDER OF ACCU  Ilorizontal  Vertical  R.O.W. MAP	6508  ACCURACY  ntal 2nd	
N SHUTON NOTATION NOT	OLUMB.	NAL GEODETIC	8	V-1	ALIBRATION	BASE LINE	<b>D</b>	
FROM STATION	ELEVATION FEET	TO STATION	ELEVATION FEET	HORIZONTAL FEET	TAL DISTANCE METERS	SLOPE I	DISTANCE METERS	STANDARD BERROR FEET
6508	402.781	6509	394.957	492.149		492.211	150.0263	.0003
6508	402.781	6510	343.323	2,624.684	800.0054	2,625.358	800.2107	.0003
6508	402.781	6511	324.153	4,593.199	1,400.0098	4,593.872	1,400.2149	.0003
6509	394.957	6510	343.323	2,132.535	649.9981	2,133.160	650.1886	.0003
6509	394.957	6511	324.153	4,101.050	1,250.0024	4,101.661	1,250.1887	.0003
6510	343.323	6511	324.153	1,968.512	600.0038	1,968.606	600.0323	.0003
							-	
	NOLLYAFTE	NOT		OB TECH	9	-		- 6
Mean Sea Level	Dat	Comment to		TOTFOL	DISTANCE FEET	TOWNTY	N TANALI	2 MATERIAN
02.	780	NGVD 29	CTG	s 6509			19	
Meters 122. Date May	7676 1993	Town Misc.	RP 2 RP 3	ωΝ	19.25	90 52 158 28	01	
							<del></del>	
			_		_			

DESCRIPTION: The Station Mark is a standard CTGS brass disk, stamped 6508, set into the top of a square mark is a standard CTGS brass disk, stamped 6508, set into an irregular mass of concrete which is 5 feet below the surface of the ground. reinforced concrete post which is recessed 2 inches below the surface of the ground. The underground

To reach the station from the intersection of CT. Route 2 (eastbound) and Chestnut Hill Road (exit 21), proceed east on CT. Route 2 for 2.12 miles to the station on the right.

The station is located 49.0 feet northwest of a grey birch tree, 26.5 feet southwest of the centerline of CT. Route 2 (eastbound), and 4.5 feet southwest of the south edge of the bituminous pavement.

- Southeast of Station A drill hole in the top of a 3/4 inch square steel pin driven 1 inch below the ground. It is located 29.2 feet west of a 4 inch grey birch tree, 40.5 feet south of the painted centerline of CT. Route 2 (eastbound), and 18.5 feet south of the south edge of the bituminous pavement.
- 공 2 South of Station - A drill hole in the top of a 3/4 inch square steel pin driven 1 inch below the ground. It is located 46.4 feet west of a 4 inch grey birch tree, 45.5 feet south of the centerline of CT. Route 2 (eastbound), and 23.5 feet south of the bituminous pavement.
- 꾸 ω Southwest of Station - A drill hole in the top of a 3/4 inch square steel pin driven 1 inch below the ground. It is located 67.4 feet west of a 4 inch grey birch tree, 34.5 feet south of the center-line of CT. Route 2 (eastbound), and 12.5 feet south of the bituminous pavement.

NOTES: All baseline		RECOVERY NOTES		baseline RECOVERY NOTES SKETCH
corrected for sea level or scale factors.	DATE	ORGANIZATION	CONDITION	MOODED
METRIC CONVERSION CONSTANTS				MEDIAN Y
1 Meter = 3.2808333333 Feet 1 Foot = 0.3048006096 Meter	8/17/92	CTGS	Good	
				CT ROUTE 2 (EASTBOUND)
				C765 6508
				70 6765 6509
				The son was

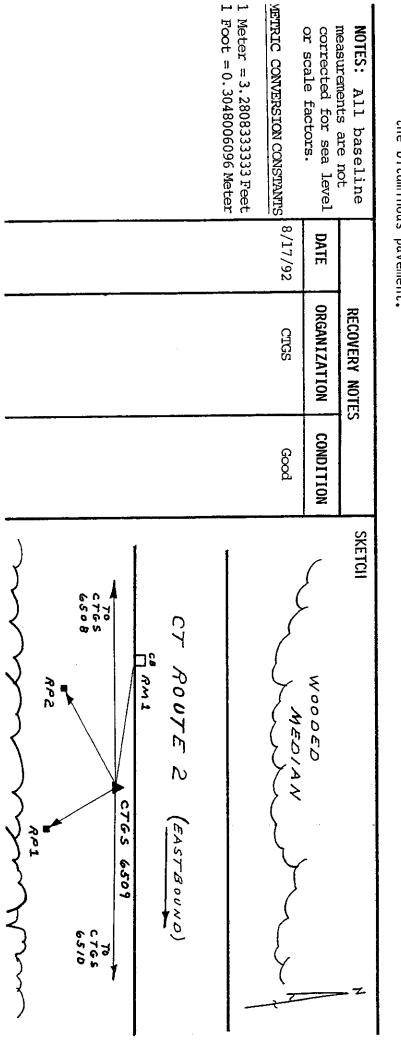
Feet Heters Date	Mean Sea Level					6510	6509	6509	6508	6508	6508	FROM STATION		COMPUTATION VOLUME	DATE DESCRIBED	DATE SET	TOWN Col
	L Datum   I Datum					343.323	394.957	394.957	402.781	402.781	402.781	ELEVATION FEET	NATIONAL	OLUMB	0 August	August 199	Colchester
	ION Comments					6511	6511	6510	6511	6510	6509	NOITATE OF	NAL GEODETIC		1992	92	
CTGS RP 1 RP 2 CTGS RM 1						324.153	324.153	343.323	324.153	343.323	394.957	ELEVATION FEET		BOOKS	USGS HAP	QUADRANGLE	XINDO XINDO
\$ 6510 1 2 2 6508 1	OBJECT					1,968.512	4,101.050	2,132.535	4,593.199	2,624.684	492.149	HORIZONTAL FEET	SURVEY — CA	V-1		410721	
16.30 25.30 23.90	DISTANCE FEET					600.0038	1,250.0024	649.9981	1,400.0098	800.0054	150.0074	AL DISTANCE METERS	ALIBRATION		Colchester	721 Gilead	New London
00 00 59 19 158 03 179 59 190 55	T DIRECTION					1,968.606	4,101.661	2,133.160	4,593.872	2,625.358	492.211	FEET DATE D	BASE LINE	R.O.W. MAP	Horisontal	-	NOITATE
00 00 00	4 PLANE					600.0323	1,250.1887	650.1886	1,400.2149	800.2107	150.0263	DISTANCE METERS	DATA	)	الم	ACCURACY	6509
	ILIMIZV 3					.0003	.0003	.0003	.0003	.0003	.0003	STANDARD FRROR FEET					

DESCRIPTION: mark is a standard CTGS brass disk, stamped 6509, set in an irregular mass of concrete which is 5 feet below the surface of the ground. reinforced concrete post which is recessed 4 inches below the surface of the ground. The underground The Station Mark is a standard CTGS brass disk, stamped 6509, set into the top of a square

To reach the station from the intersection of CT. Route 2 (eastbound) and Chestnut Hill Road (exit 21), proceed east on CT. Route 2 for 2.22 miles to the station on the right (south).

The station is located 93.5 feet northwest of an 8 inch red pine tree, 27.5 feet south of the centerline of CT. Route 2 (eastbound), and 5.4 feet south of the south edge of the bituminous pavement.

- **∾** 1: Northwest of Station - A drill hole in a hex head brass bolt in a 1/4 inch hole set into the top center of a TYPE C concrete catch basin. It is located 117.6 feet northwest of an 8 inch red pine tree, 23.0 feet south of the centerline of CT. Route 2 (eastbound), and 91.0 feet southeast of a 10 inch pine tree.
- RP 1: South of Station - A drill hole in the top of a 3/4 inch square steel pin driven 1 inch below the surface of the ground. It is located 81.5 feet northwest of an 8 inch red pine tree, 42.0 feet bituminous pavement. south of the centerline of CT. Route 2 (eastbound), and 19.5 feet south of the south edge of the
- RP 2: feet south of the centerline of CT. Route 2 (eastbound), and 14.0 feet south of the south edge of Southwest of Station - A drill hole in the top of a 3/4 inch square steel pin driven 1 inch below the surface of the ground. It is locatecd 113.5 feet northwest of an 8 inch red pine tree, 37.0 the bituminous pavement.



	Mean Sea Level						6510	6509	6509	6508	6508	6508	FROM STATION		COMPUTATION VOLUME	DATE DESCRIBED	SET	TOWN Colc
	I Datum   I Datum						343.323	394.957	394.957	402.781	402.781	402.781	ELEVATION FEET	NATIONAL	LUNG	August	August 1992	Colchester
	TON Comments						6511	6511	6510	6511	6510	6509	TO STATION	NAL GEODETIC		1992	2	
CTGS CTGS RM 1 RP 1 RP 2			·				324.153	324.153	343.323	324.153	343.323	394.957	ELEVATION FEET	1	BOOKS.	USGS MAP	QUADRANGLE	YINUQQ
6509 6511	OBJECT						1,968.512	4,101.050	2,132.535	4,593.199	2,624.684	492.149	HORIZONTAL FEET	SURVEY — CAL	V-1		NOILE 410721	
53.20 16.63 24.00	DISTANCE FEET						600.0038	1,250.0024	649.9981	1,400.0098	800.0054	150.0074	AL DISTANCE METERS	LIBRATION		Colchester	721 Gilead	New London
00 00 179 59 196 36 270 34 342 43	T DIRECTION						1,968.606	4,101.661	2,133.160	4,593.872	2,625.358	492.211	FEET	BASE LINE	R.O.W. MAP	Vertical	ORDER OF	STATION
00 59 31 21 03	ON PLANE						600.0323	1,250.1887	650.1886	1,400.2149	800.2107	150.0263	DISTANCE METERS	DATA	(F)		ACCURACY	6510
	HITMIZY 3						.0003	.0003	.0003	.0003	.0003	.0003	STANDARD FRROR FEET					

DESCRIPTION: The Station Mark is a standard CTGS brass disk, stamped 6510, set into the top of a square reinforced concrete post which is recessed 4 in. below the surface of the ground. The underground mark is a standard CTGS brass disk, stamped 6510, set into an irregular mass of concrete which is 5 ft. below the surface of the ground.

To reach the station from the intersection of CT. Route 2 (eastbound) and Chestnut Hill Road (exit 21), proceed east on CT. Route 2 for 2.62 miles to the Colchester/Lebanon Town Line and the station on the right

edge of the bituminous pavement. The station is located 52.9 ft. northwest of the north support post for a sign reading "Lebanon Town Line", 30.0 feet south of the centerline of CT. Route 2 (eastbound), and 7.8 ft. south of the south

Southeast of Station - A drill hole in a hex head brass bolt in a 1/4 in. hole set into the north side of the concrete base support of a sign reading "Lebanon Town Line". It is located 224.5 ft. east of the extended centerline of a gravel emergency crossover road, 46.0 ft. south of the centerline of CT. Route 2 (eastbound), and 22.9 ft. south of the south edge of the bituminous pavement.

RP 1: South of Station - A drill hole in the top of a 3/4 in. square iron pin driven 1 in. below the surface of the ground. It is located 173.0 ft. east of the extended centerline of a gravel emergency crossover road, 47.0 ft. south of the centerline of CT. Route 2 (eastbound), and 24.2 ft. south of the south edge of the bituminous pavement.

Z Ÿ Southwest of Station - A drill hole in the top of a 3/4 in. square steel pin driven 1 in. below the

6509  6509  6509  6509  6509  6509  6509  6509  6509  6509  6509				1Meter = 3.2808333333 Feet 1Foot = 0.3048006096 Meter
C765 6510				METRIC CONVERSION CONSTANTS
CI MOULE (EASTBOUND) 112	Good	CIGS	8/20/92	or scale factors.
_	Condition	Organization	Date	measurements are not corrected for sea level
707	S	RECOVERY NOTES	R	VOTES: All baseline
MEDIAN	yravel ith of the , and 14.5 ft nous	east of the extended centerline of a gravel emergency crossover road, 37.5 ft. south of the centerline of CT. Route 2 (eastbound), and 14.5 ft south of the south edge of the bituminous pavement.	extended cossover rossover rossover rossover south edg	east of the e emergency cro centerline of south of the pavement.
2 0/ 1 1110 Octable District Control of the Control	150.0 ft.	It is located	e ground.	surface of the ground. It is located 150.0 ft.

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DESCRIPTION: The Station Mark is a standard CTGS brass disk, stamped 6511, set into the top of a square surface of the ground. reinforced concrete post which is recessed 4 in. below the surface of the ground. The underground mark is a standard CTGS brass disk, stamped 6511, set into an irregular mass of concrete 5 ft. below the

To reach the station from the intersection of CT. Route 2 (eastbound) and Chestnut Hill Road (exit 21) in Colchester, proceed east on CT. Route 2 for 3.0 miles (0.38 mi. east of the Colchester/Lebanon Town Line) to the station on the right (south).

The station is located 171.5 ft. west of a wire guide rail anchor, 32.0 ft. south of the centerline of CT. Route 2 (eastbound), and 8.5 ft. south of the south edge of the bituminous pavement.

- Southeast of Station A drill hole in the top of a 3/4 in. square steel pin driven 1 in. below the surface of the ground. It is located 150 ft. west of the anchor for a wire rope rail, 41.0 ft. south of the centerline of CT. Route 2, and 17.5 ft. south of the south edge of the bituminous pavement.
- 공 2: South of Station - A drill hole in the top of a 3/4 in. square steel pin driven 1 in. below the surface of the ground. It is located 171.5 ft. west of the anchor for a wire rope rail, 47.5 ft. south of the centerline of CT. Route 2, and 24.0 ft. south of the south edge of the bituminous pavement.
- 공 w Southwest of Station - A drill hole in the top of a 3/4 in. square steel pin driven 1 in. below the surface of the ground. It is located 188.5 ft. west of the anchor for a wire rope rail, 41.0 ft. south of the centerline of CT. Route 2, and 18.0 ft. south of the south edge of the bituminous

pavement.					
NOTES: All baseline		RECOVERY NOTES	٠ ن	SKETCH	_ ブ
corrected for sea level or scale factors.	DATE	ORGANIZATION	CONDITION	GRASS	
METRIC CONVERSION CONSTANT 8/20/93	8/20/93	CTGS	Good	MEDIAN	- <del></del>
METER = 3.2808333333 Feet   Foot = 0.3048006096 Meter					_
				CT ROUTE 2 (EASTBOUND)	
				C765 65/0 RP3 RP1	Som
					3