														FERENCE NO.
			SURVE	TY CON	JTRO	I SH	FFT	$R_{25141}$	D				R-25	tion and
GPS Calibr	ration Repo	ort	Geoid Mo	del Definition					Longitude	77°14'34.30907"W	Elevation			2526715
Draiget : D2514 calibrated									Horz error Vert error			35 Horz a		
										3D error			Adjusted	
breigner	Date & Time	2:01:53 PM 8/21/2008	Residual <b>E</b>	)ifferences Betw	een GPS (V	WGS84) And I	Local Coo	rdinates	Point					
ground)	Zone	North Carolina 3200		C C					Latitude					43805
NAD 1983 (Conus)		Carido2 (Carro) NC Cab	Summary										252786	
NAVD 88	Geoid Model	Grid	Maximum error Root Mean Square error Point				Point			Vert error			Horz	
US survey feet			Horizontal			0.006		R2514-11_GPS			3D error	0.004sft	Quality	Adjuste
-									Point	R2514-8 GPS	Northing	439750 202sft	Point R2514	-8
-			I hree-dimensio	nai V.	JO /SII	0.008		K2514-8_GPS	Latitude			2527193.599sft	Northing	4397
					Point R	Residuals			Longitude	77°14'26.29372"W	Elevation		Easting	25271
34°58'38.28832"N									Height	-81.825sft	Horz error			
77°14'28.40172"W			WGS8	4 Coordinates			Loca	l Coordinates						Horz Contr
											5D error	0.00731	Quanty	Com
			Point						Point					
epartment of Transportati	ion uses a Localized (	Coordinate System											<u> </u>	4513
o North Carolina Zone200	) from which it is deri	ived.		-78.235sft	Horz error			43.599sft						25268
		-			Vert error	0.035sft	Utilized	Horz and Vert		02.99101	Vert error			Hor
e use of Keal Time Kinema	atic (RIK) GPS durn	ng construction layout.			3D error	0.038sft	Quality	Control quality			3D error	0.023sft	Quality	Adjust
			Point	R2514-2_GPS	Northing	408945.433sft	Point R2514	1-2	Point	R2514-10 GPS	Northing	450596.123sft	Point R2514	-10
mation Parameters			Latitude		Easting			408945.434sft	Latitude	34°58'30.78091"N	Easting			450
							<u> </u>		Longitude	77°14'15.13979"W	Elevation			25279
Datum Transformation computation not requested			Height	-/8.318stt	-				Height	-84.186sft				Hor
					3D error			Adjusted quality			3D error		· · · · · · · · · · · · · · · · · · ·	Adjust
Projection (Transv	erse Mercator)	Definition	Point	R2514-3 GPS	Northing	418524 531sft	Point R2514	1.3	Paint	D3514 12 CD2	Neuthing	450202 710-8	Daint DOS14	10
	. I		Latitude					418524.533sft						4593
rojection not request	ea		Longitude		Elevation			2523780.196sft	Longitude	77°14'03.60057"W	Elevation			25287
			Height	-80.263sft	Horz error				Height	-91.132sft	Horz error	0.030sft		
stment Parameters					3D error									Horz Adjust
otation center 4	448950.369sft			205444 020		447004700.0						·		·
													·	
point					Elevation									4593 25269
			Height		Horz error			39.040sft	Height	-96.095sft	Horz error			
	1.0000000				Vert error			Horz and Vert			Vert error			Hor
					3D error	0.00/sft	Quality	Adjusted quality			3D error	0.047sft	Quality	Cont
ient Parameters			Point						Point	R2514-13 GPS	Northing			-13
idin point	107877 068-0		Latitude						Latitude					4693
8 1														25327
gin	-0.080sft				Vert error			Horz and Vert	inight	-07.70331	Vert error			Horz
	1.441ppm				3D error	0.002sft	Quality	Adjusted quality			3D error		Quality	Adjust
	-1.370ppm		Point	R2514-6 GPS	Northing	429038.515sft	Point R2514	1-6	Point	R2514-14 GPS	Northing	468754.272sft	Point R2514	-14
			Latitude	34°54'57.80480"N		2526715.834sft	Northing	429038.512sft	Latitude	35°01'29.23639"N			Northing	4687
	Project : R2 R-2514 breigner US State Plane 1983(at ground) NAD 1983 (Conus) NAVD 88 US survey feet US survey feet Survey feet US survey feet US survey feet Survey feet US survey feet Survey feet US survey feet Survey feet Surv	R-2514     Date & Time       US State Plane 1983(at     Zone       main of the state of the	Subsection Report       Project: R2514 calibrated       breigner     Date & Time     201-53 PM 8/21/2008       US State Plane 1983(at     Zone     North Carolina 3200       NAD 1983     Geoid Model     Geoid/0 (Comms) NC Sub       NAVD 88     Geoid Model     Geoid/0 (Comms) NC Sub       US survey feet     US     Geoid/0 (Comms) NC Sub       US survey feet     US     Geoid/0 (Comms) NC Sub       VS 1993/2514-9     January Survey feet     Geoid/0 (Comms) NC Sub       US survey feet     US     Geoid/0 (Comms) NC Sub       VS 1993/2514-9     January Survey feet     Geoid/0 (Comms) NC Sub       VS 2011/2002     Survey feet     Geoid/0 (Comms) NC Sub       Partment of Transportation uses a Localized Coordinate System     Geoid/0 (Comms) NC Sub       North Carolina Zone200 from which it is derived.     Geoid/0 (Comms) NC Sub       Survey feet     Geoid/0 (Comms) North Carolina Zone200 from which it is derived.       Survey feet     Geoid/0 (Comms) North Carolina Zone200 from which it is derived.       Survey feet     Geoid/0 (Comms) North Carolina Zone200 from which it is derived.       Survey feet     Geoid/0 (Comms) North Carolina Zone200 from which it is derived.       Survey feet	Geoid Model       Geoid Model       Residual D       North Carolina 3200       NAVD 88       Geoid Model       Control       US survey feet       Internet of Transportation uses a Localized Coordinate System       North Carolina Zone200 from which it is derived.	Geoid Model Definition     Geoid Model Definition     Geoid Model Definition     Geoid Model Definition     Geoid Model Differences Betw     Vorth Carolina 3300     North Carolina 300     Vortical Model Ord     US 300     State Coordinate System     North Carolina Zon200 from which if it derived.     Cardina Essename     203407 772 W     Projection (Transverse Mercator) Definition     ojection not requested     Projection (Transverse Mercator) Definition     Outroe Carolina Construction layout.     Projection (Transverse Mercator) Definition     Outroe Carolina Construction layout.     Projection (Transverse Mercator) Definition     Outroe Carolina Construction layout.	CPS Calibration Report   Geoid Model Definition     E-2514   Date & Time   2:01:53 PM 8/21/2008   Geoid 03 (Conus) NC Sub Grid     E-2514   Date & Time   2:01:53 PM 8/21/2008   Geoid 03 (Conus) NC Sub Grid     Start Parameters   North Carolina 3200   Model Definition     NAUD 88   Geoid Model   Geoid 3 (Conus) NC Sub Grid     US marry feet   Geoid Model   Geoid 3 (Conus) NC Sub Grid     US marry feet   Goid   Geoid Model     US marry feet   Goid   Geoid Model     US marry feet   Goid   Geoid Model     US marry feet   Goid   Goid     US marry feet   Goid   Goid (Conus) NC Sub Grid     Maximum error   Goid (Conus) NC Sub Grid   Summarrian     Maximum error   Maximum error   Goid (Conus) NC Sub Grid     Maximum error   Goid (Conus) NC Sub Grid   Summarrian     Maximum error   Goid (Conus) NC Sub Grid   Summarrian     Maximum error   Goid (Conus) NC Sub Grid   Summarrian     Maximum error   Goid (Conus) NC Sub Grid   Summarrian <td>Cases   Cases   Cases     Project:   22141   Cond   Cond     Project:   Date &amp; Time   20133 PM 9212008     US Startey Set   Cond   Cond     US startey Set   Cond<td>Cases   Control   Control</td><td>Second Second Secon</td><td>Description and a function of the convertice of the con</td><td>Mathematical Strategy   Description Respont   Coold Model Definition     Property 12001   Date A Time 2011 919 M050000   Coold Status     NUTUBE   Coold Model Definition     NutuBe   Coo</td><td><section-header>ACPC Action CompositionControl CompositionControl</section-header></td><td><section-header>And Calculation ReportDefer and Participation Participation</section-header></td><td><section-header><section-header></section-header></section-header></td></td>	Cases   Cases   Cases     Project:   22141   Cond   Cond     Project:   Date & Time   20133 PM 9212008     US Startey Set   Cond   Cond     US startey Set   Cond <td>Cases   Control   Control</td> <td>Second Second Secon</td> <td>Description and a function of the convertice of the con</td> <td>Mathematical Strategy   Description Respont   Coold Model Definition     Property 12001   Date A Time 2011 919 M050000   Coold Status     NUTUBE   Coold Model Definition     NutuBe   Coo</td> <td><section-header>ACPC Action CompositionControl CompositionControl</section-header></td> <td><section-header>And Calculation ReportDefer and Participation Participation</section-header></td> <td><section-header><section-header></section-header></section-header></td>	Cases   Control   Control	Second Secon	Description and a function of the convertice of the con	Mathematical Strategy   Description Respont   Coold Model Definition     Property 12001   Date A Time 2011 919 M050000   Coold Status     NUTUBE   Coold Model Definition     NutuBe   Coo	<section-header>ACPC Action CompositionControl CompositionControl</section-header>	<section-header>And Calculation ReportDefer and Participation Participation</section-header>	<section-header><section-header></section-header></section-header>

•

LOCALIZED HORIZONTAL GROUND DISTANCE FROM "R2514-9" TO -L- STATION 300+00 IS

N16°36′14.94″E 6342.661′ ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES

VERTICAL DATUM USED IS NAVD 88

Location and Surveys			
R-2514D	1C-2		
PROJECT REFERENCE NO.	SHEET NO.		