

GPS CONTROL POINTS

**HVCTRL #1**

QUINLAN  
 NORTH = 647905.441  
 EAST = 1461436.466  
 ELEV. = 243.573

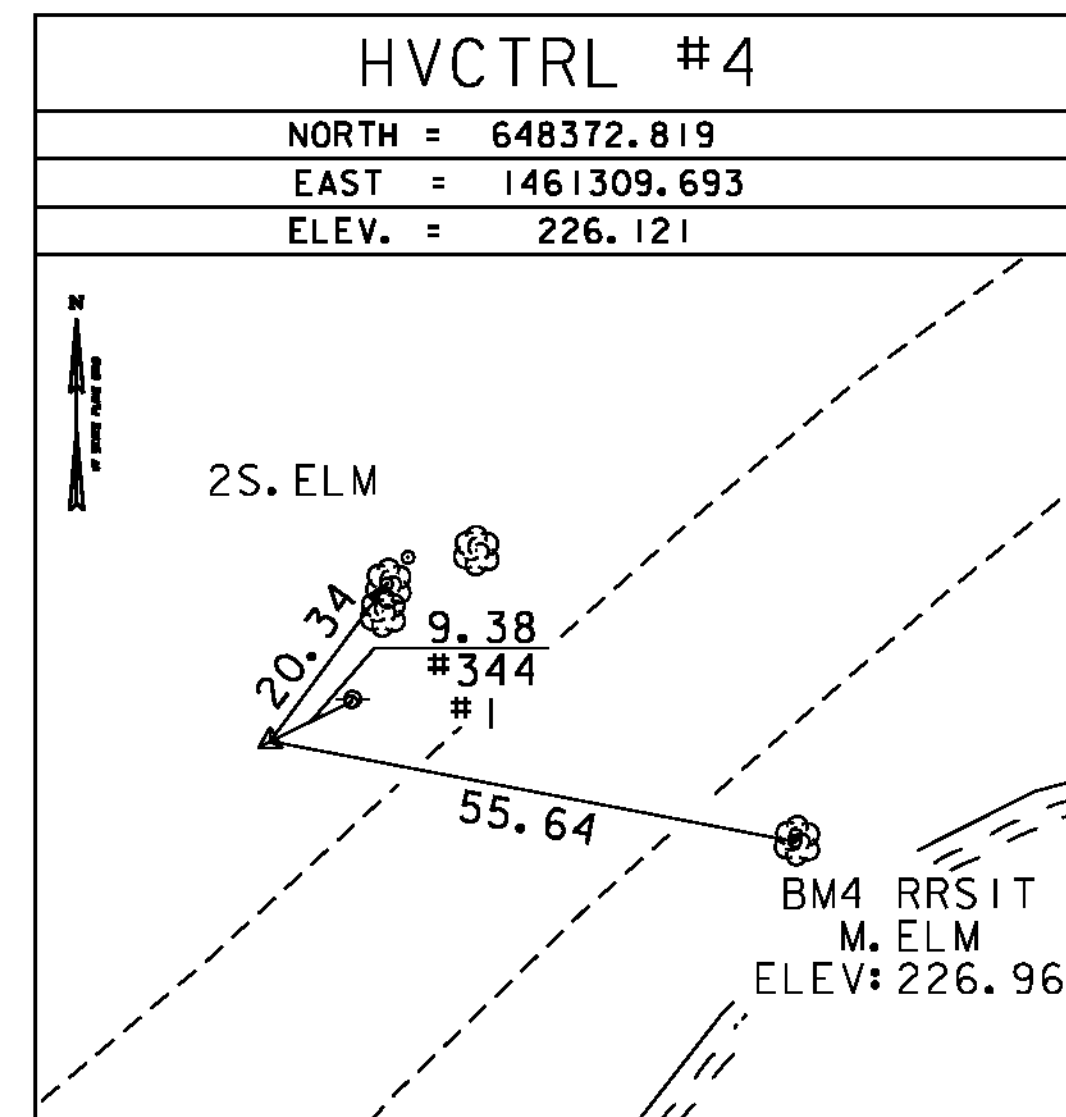
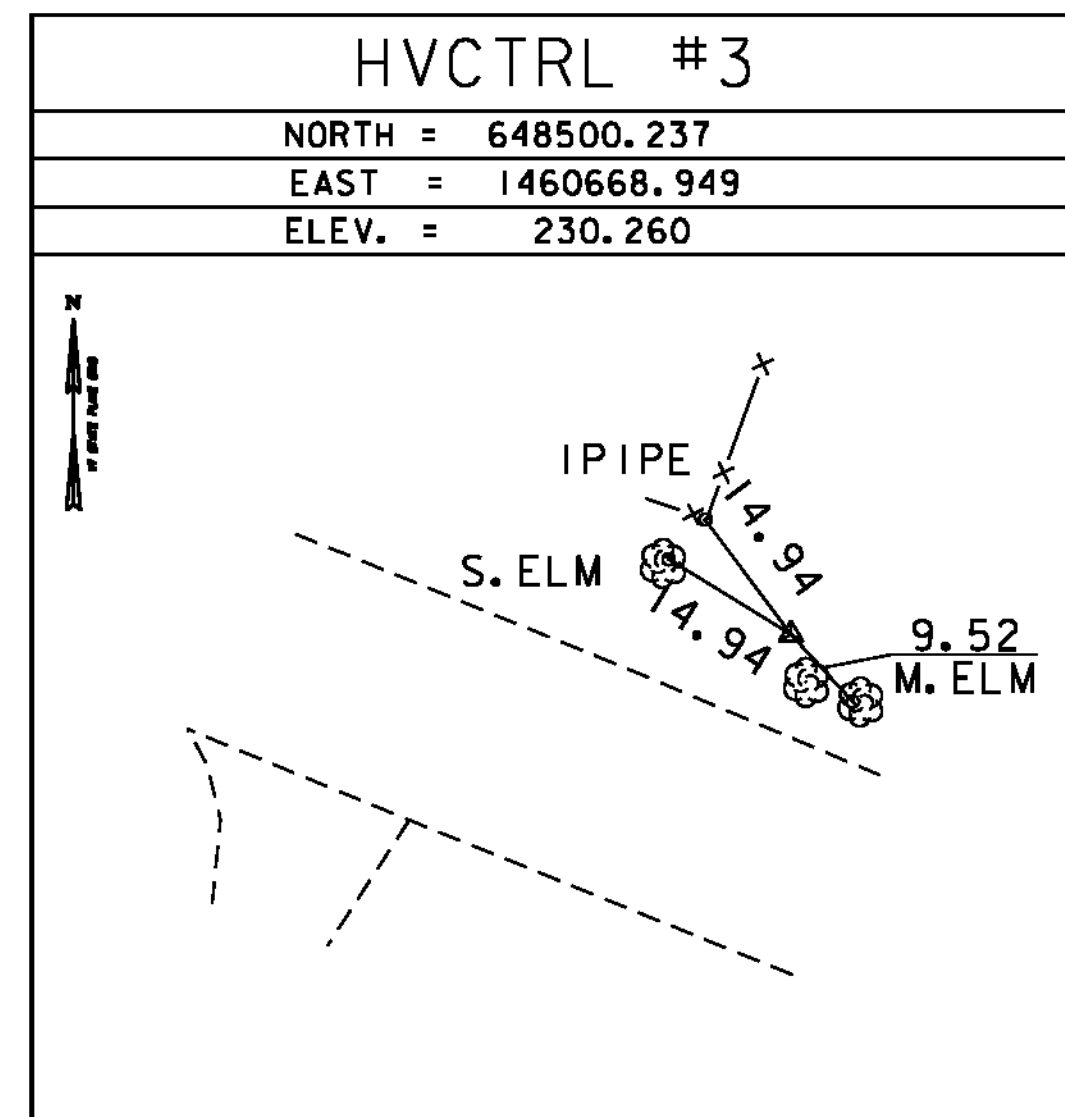
GENERAL LOCATION, CHARLOTTE, VT.  
 TO REACH FROM THE INTERSECTION OF VT FERRY ROAD F-5 (FERRY STREET), US ROUTE 7, AND CHURCH HILL ROAD GO SOUTH ALONG US ROUTE 7 FOR 2.5 MI (4.0 KM) TO THE INTERSECTION OF STATE PARK ROAD LEFT. TURN LEFT AND GO EAST ALONG STATE PARK ROAD FOR 0.6 MI (1.0 KM) TO THE INTERSECTION OF MOUNT PHILO ROAD. TURN RIGHT AND GO SOUTH ALONG MOUNT PHILO ROAD FOR 0.8 MI (1.3 KM) TO THE INTERSECTION OF SPEAR STREET LEFT. TURN LEFT AND GO EAST ALONG SPEAR STREET FOR 2.0 MI (3.2 KM) TO THE INTERSECTION OF MONKTON ROAD RIGHT. TURN RIGHT AND GO SOUTH ALONG MONKTON ROAD, PASSING THROUGH THE QUINLAN COVERED BRIDGE, FOR 0.1 MI (0.2 KM) TO THE SITE OF THE MARK STRAIGHT AHEAD IN A GRASSY TRIANGLE INTERSECTION.  
 THE MARK IS SET 20 CM (8 INCHES) BELOW GROUND SURFACE IN THE TOP OF A FENO-STYLE MONUMENT. IT IS 11.4 M (37.4 FT) EAST OF AND ABOUT 0.3 M (1.0 FT) HIGHER THAN THE CENTERLINE OF MONKTON ROAD, 4.9 M (16.1 FT) EAST-NORTHEAST OF THE LEWIS CREEK ROAD METAL SIGN POST, 10.6 M (34.8 FT) SOUTHWEST OF THE CENTERLINE OF THE MOST NORTHERLY LEG OF LEWIS CREEK ROAD, 6.7 M (22.0 FT) NORTH OF THE CENTERLINE OF THE MOST SOUTHERLY LEG OF LEWIS CREEK ROAD, 23.3 M (76.4 FT) WEST-NORTHWEST OF POLE NO 34, AND 0.3 M (1.0 FT) NORTH OF A FIBERGLASS WITNESS POST.

**HVCTRL #2**

QUINLAN AZ MK  
 NORTH = 648495.630  
 EAST = 1459997.246  
 ELEV. = 291.855

GENERAL LOCATION, CHARLOTTE, VT.  
 TO REACH FROM THE INTERSECTION OF VT FERRY ROAD F-5 (FERRY STREET), US ROUTE 7, AND CHURCH HILL ROAD GO SOUTH ALONG US ROUTE 7 FOR 2.5 MI (4.0 KM) TO THE INTERSECTION OF STATE PARK ROAD LEFT. TURN LEFT AND GO EAST ALONG STATE PARK ROAD FOR 0.6 MI (1.0 KM) TO THE INTERSECTION OF MOUNT PHILO ROAD. TURN RIGHT AND GO SOUTH ALONG MOUNT PHILO ROAD FOR 0.8 MI (1.3 KM) TO THE INTERSECTION OF SPEAR STREET LEFT. TURN LEFT AND GO EAST ALONG SPEAR STREET FOR 1.8 MI (2.9 KM) TO THE SITE OF THE MARK ON THE RIGHT.  
 THE MARK IS SET 20 CM (8 INCHES) BELOW GROUND SURFACE IN THE TOP OF A FENO-STYLE MONUMENT. IT IS 7.3 M (24.0 FT) SOUTHEAST OF AND ABOUT 1.0 M (3.3 FT) LOWER THAN THE CENTERLINE OF SPEAR STREET, 14.8 M (48.6 FT) NORTHEAST OF A 25 CM (10 INCHES) CEDAR, 30.8 M (101.0 FT) SOUTHWEST OF AND ACROSS THE ROAD FROM POLE NO 8, 34.0 M (111.5 FT) WEST-SOUTHWEST OF A PLUMB WOODEN FENCE POST, 36.8 M (120.7 FT) SOUTHWEST OF AND ACROSS THE ROAD FROM THE INTERSECTION OF THE DRIVE LEADING TO HOUSE NO 6136, AND 0.2 M (0.7 FT) NORTHWEST OF A FIBERGLASS WITNESS POST.

TRAVERSE TIES



\* Main Traverse Completed 3/5/09 by L. Orvis P.C. & R. Bockus

ALIGNMENT CONTROL

**Horizontal Alignment Name: Monkton Rd (TH 36)**

	STATION	NORTHING	EASTING
<b>Element: Linear</b>			
POB (1)	9+70.00	648304.6731	1461212.5535
PC (2)	11+80.48	648166.7554	1461348.8872
Tangent Direction:	S 49°03'38.35" E		
Tangent Length:	210.48		
<b>Element: Circular</b>			
PC (2)	11+80.48	648166.7554	1461348.8872
PI	12+32.60	648132.5993	1461388.2635
CC (3)	648076.1070	1461270.2560	
PT (4)	12+78.83	648080.5082	1461390.1753
Radius:	120.00		
Delta:	46°57'31.59" Right		
Degree of Curvature (Arc):	47°44'47.34"		
Length:	98.35		
Tangent:	52.13		
Chord:	95.62		
Middle Ordinate:	9.94		
External:	10.83		
Tangent Direction:	S 49°03'38.35" E		
Radial Direction:	S 40°56'21.65" W		
Chord Direction:	S 25°34'52.56" E		
Radial Direction:	S 87°53'53.23" W		
Tangent Direction:	S 2°06'06.77" E		
<b>Element: Linear</b>			
PT (4)	12+78.83	648080.5082	1461390.1753
POE (5)	14+00.00	647959.4187	1461394.6194
Tangent Direction:	S 2°06'06.77" E		
Tangent Length:	121.17		

**Horizontal Alignment Name: Spear Street/Spear Street Extension (TH6 & TH1)**

	STATION	NORTHING	EASTING
<b>Element: Linear</b>			
POB (14)	100+00.00	648357.4336	1461328.1978
PC (15)	100+47.68	648325.1092	1461293.1474
Tangent Direction:	S 47°19'01.21" W		
Tangent Length:	47.68		
<b>Element: Circular</b>			
PC (15)	100+47.68	648325.1092	1461293.1474
PI	101+37.71	648264.0737	1461226.9645
CC (17)	648443.4629	1461183.9988	
PT (18)	102+11.86	648288.5034	1461140.3117
Radius:	161.00		
Delta:	58°25'39.06" Right		
Degree of Curvature (Arc):	35°35'14.79"		
Length:	164.18		
Tangent:	90.03		
Chord:	157.16		
Middle Ordinate:	20.48		
External:	23.46		
Tangent Direction:	S 47°19'01.21" W		
Radial Direction:	N 42°40'58.79" W		
Chord Direction:	S 76°31'50.74" W		
Radial Direction:	N 15°44'40.27" E		
Tangent Direction:	N 74°15'19.73" W		
<b>Element: Linear</b>			
PT (18)	102+11.86	648288.5034	1461140.3117
POE (16)	102+32.00	648293.9678	1461120.9293
Tangent Direction:	N 74°15'19.73" W		
Tangent Length:	20.14		

DATUM  
 VERTICAL: NAVD 88  
 HORIZONTAL: NAD 83(07)  
 ADJUSTMENT: COMPASS

PROJECT NAME: CHARLOTTE  
 PROJECT NUMBER: BHO 1445(34)

FILE NAME: z06j088t1.dgn  
 PROJECT LEADER: M.A. COLGAN  
 DESIGNED BY: VTRANS  
 TIE SHEET

PLOT DATE: 9/14/2012  
 DRAWN BY: R. BULLOCK  
 CHECKED BY: VTRANS  
 SHEET 7 OF 55

