

GeoBC  
BRITISH COLUMBIA ACTIVE CONTROL SYSTEM

GNSS ACTIVE CONTROL POINT as of 2018/12/03

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STATION: BCVC  
GEODETIC MARK: 875864  
FULL NAME: BCACS - Vancouver City Firehall #1 ACP  
CLASS: BCACS Primary  
LOCATION: Vancouver, B.C., Canada

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- 2015/08/11 (Date of Observations)

MARKER COORDINATES: Latitude n 49 16 32.73535  
Longitude w123 5 21.58021  
Hybrid Ellipsoid Height 11.449 m\*  
Orthometric Height 30.236 m

- 2005/06/17 OBSOLETE

MARKER COORDINATES: ~~Latitude n 49 16 32.73535~~  
~~Longitude w123 5 21.58021~~  
~~Ellipsoid Height 11.439\*~~  
~~Orthometric Height 30.229~~

\*Hybrid Ellipsoid Heights are derived by adding the HTMVBC00\_Abb separation (N) to the levelling-derived orthometric heights. I.e. they are not derived from GNSS observations and are therefore not true ellipsoid heights.

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- 2018/11/01

GEODETIC ATTRIBUTES: Datum/Ellipsoid = NAD83(CSRS) 4.0.0.BC.1.GVRD  
Geoid Model = HTMVBC00\_Abb  
N = -18.787  
xi = -12.8s  
eta = -0.6s

- 2005/06/17 OBSOLETE

GEODETIC ATTRIBUTES: ~~Datum/Ellipsoid = NAD83(CSRS) 4.0.0.BC.1.GVRD~~  
~~Geoid Model = CVRD00~~  
~~N = -18.79~~  
~~xi = -12.76s~~  
~~eta = -0.58s~~

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REFERENCE NETWORKS:

Inner: nil

Outer:

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COLLOCATION TIES:

- nil

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ANTENNA HEIGHT: > vertical distance measured to antenna reference point

- 2004/09/28 00:00UT 0.000m

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GNSS RECEIVER:

- 2011/09/28 15:00UT Leica GR10 s/n 1700619  
(used for RINEX as of 2012/01/27)

- 2004/09/28 11:00UT Trimble NetRS s/n#4432236954

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FIRMWARE:

- 2011/09/28 15:00UT Firmware ver. 1.1

- 2011/01/21 01:00UT Firmware ver. 1.3.0

- 2005/04/28 00:00UT Firmware ver. 1.13

- 2004/09/28 11:00UT Firmware ver. 1.03

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ANTENNA (diagram below):

- 2011/09/28 15:00UT LEIAR25 LEIT s/n 10231039

- 2004/09/28 11:00UT Trimble Choke Ring w/Radome (TRM29659.00)  
sn#0220335632

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ANTENNA CABLE:

- 2004/09/28 00:00UT

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CLOCK:

- 2004/09/28 00:00UT GPS Receiver Internal Clock

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MODEMS:

- N/A

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UNINTERRUPTABLE POWER SUPPLY:

- 2004/09/28

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STATUS:

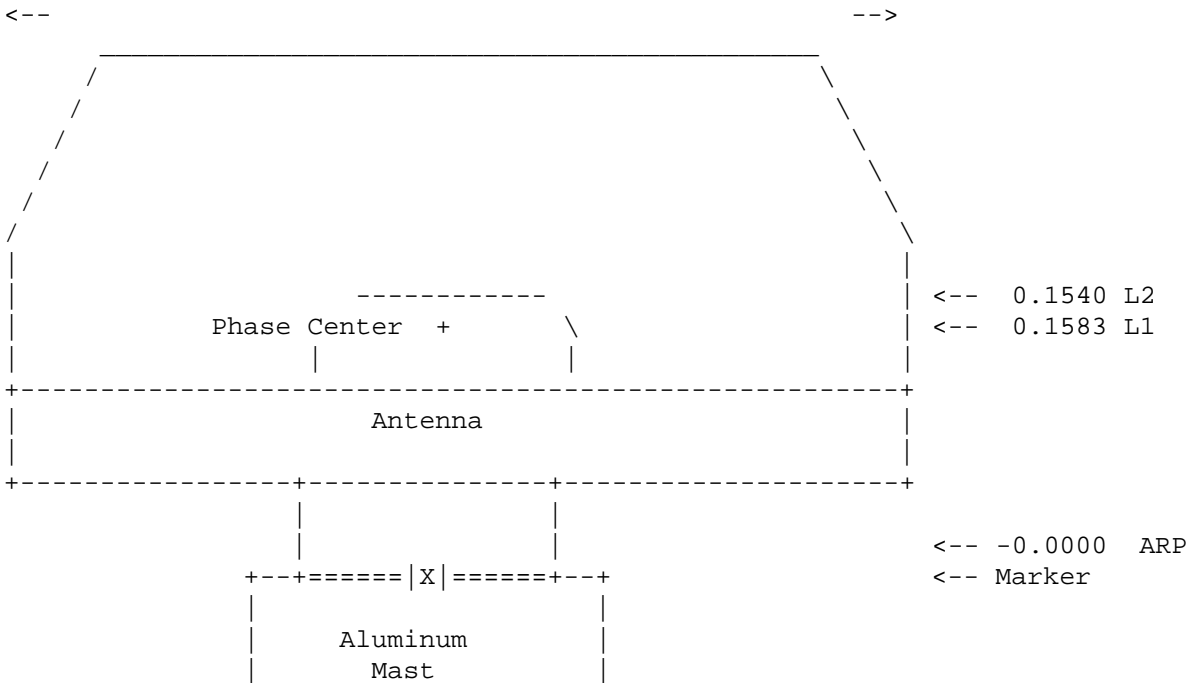
- 2004/09/28 00:00UT Operational

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AGENCY: Province of British Columbia  
GeoBC  
3400 Davidson Ave.  
Victoria, BC, Canada V8Z 3P8  
email: GeoBCinfo@gov.bc.ca

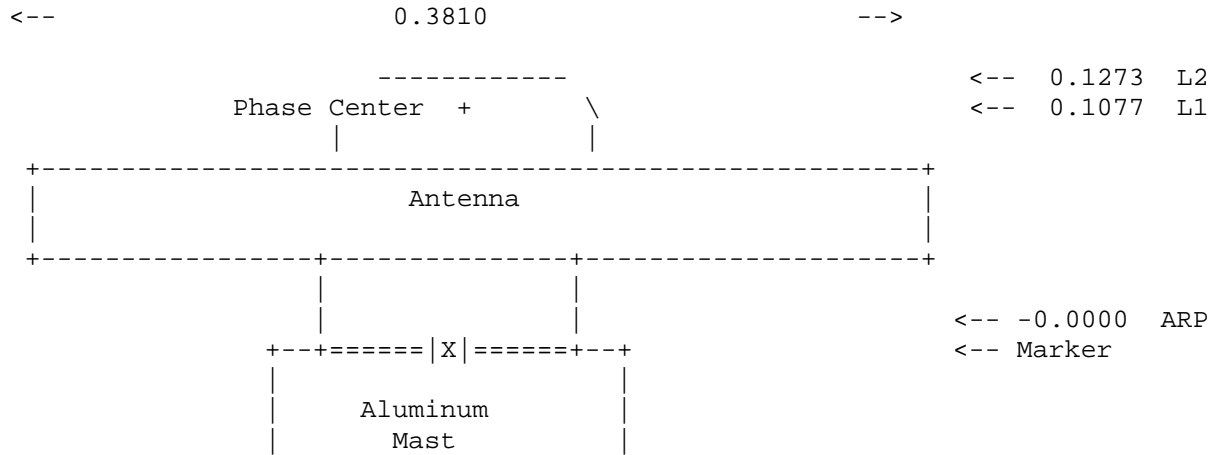
ANTENNA DIAGRAM:

2011/09/28 Leica AR25 w/ Leica dome (LEIAR25 LEIT)



- 2004/09/28  
TRM29659.00 UNAV)

Dorne Margolin Trimble Choke Ring w/radome (NGS



Marker - X

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ACRONYMS:

ACP ... Active Control Point  
ARP ... Antenna Reference Point  
BCACS ... British Columbia Active Control System  
GVRD00 ... Height Transformation Model for CGVD28, Metro Vancouver Regional District (formerly referred to as the Greater Vancouver Regional District)  
HTMVBC00\_Abb ... Height Transformation Model for CGVD28, Metro Vancouver Regional District and Abbotsford  
NAD83 ... North American Datum 1983  
NAD83(CSRS) 4.0.0.BC.1.GVRD ... NAD83, Canadian Spatial Reference System, Version 4, Epoch 2002, British Columbia, Metro Vancouver  
RINEX ... Receiver Independent Exchange Format  
WGS84 ... World Geodetic System 1984