

SURVEYING AND MAPPING DIVISION
Alberta Survey Control Marker (ASCM) Information
MASCOT DSS-1

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| Horz Datum NAD83 Updated: 1994-05-24 Latitude 51 02 15.20811 dms Longitude 113 54 04.94037 dms Horz Class INTEGRATED , ORDER 2 | Marker Installed 75-03 Date Printed 2025-08-03 Last Updated 2017-03-21 | ASCM 20149 Tablet Markings 756032 Mapsheet Name CALGARY B Mapsheet Number 5655 + 008 |
| Vert Datum CVD28 Updated: 1999-08-16 Elevation 1060.659 m Vert Class INTEGRATED , SPIRIT LEVELS | For current information call Geodetic Survey (780) 427-3143 FAX: (780) 427-1493 | |
| | Marker Condition GOOD 99-06-21 | |

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| 3TM COORDINATES | ADJACENT MARKERS (calculated) | Updated: 2017-03-21 |
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| Scale Factor 0.999900 At Ref Mer 114 Northing 5655702.980 m Easting 6917.150 m Convergence 0 04 36.08 dms Station Ellipsoid Factor 0.999836 Station Combined Factor 0.999737 | <table border="0" style="width: 100%;"> <tr> <th style="text-align: left;">ASCM Tablet To Markings</th> <th style="text-align: left;">Horizontal Distance (m) (cm)</th> <th style="text-align: left;">Std Dev Order</th> <th style="text-align: left;">Grid/ Grnd Factor</th> <th style="text-align: left;">Grid Bearing (dms)</th> <th style="text-align: left;">Std Dev (s)</th> <th style="text-align: left;">T-t Corr (s)</th> </tr> <tr> <td>812982 812982</td> <td>1301.163</td> <td>1</td> <td>12/1</td> <td>0.999736</td> <td>325 04 02.92</td> <td>1.0</td> </tr> <tr> <td>618090 618090</td> <td>1588.135</td> <td>1</td> <td>10/1</td> <td>0.999737</td> <td>187 03 45.92</td> <td>0.8</td> </tr> <tr> <td>994988 994988</td> <td>1747.965</td> <td>1</td> <td>9/1</td> <td>0.999738</td> <td>205 11 57.52</td> <td>0.7</td> </tr> <tr> <td>139592 652+8.7</td> <td>1822.141</td> <td>1</td> <td>12/1</td> <td>0.999738</td> <td>150 16 07.09</td> <td>0.9</td> </tr> <tr> <td>957944 957944</td> <td>1948.465</td> <td>1</td> <td>9/1</td> <td>0.999736</td> <td>327 59 09.41</td> <td>0.8</td> </tr> <tr> <td>110841 655+8.99</td> <td>2044.544</td> <td>1</td> <td>8/1</td> <td>0.999737</td> <td>276 49 50.62</td> <td>0.7</td> </tr> </table> | ASCM Tablet To Markings | Horizontal Distance (m) (cm) | Std Dev Order | Grid/ Grnd Factor | Grid Bearing (dms) | Std Dev (s) | T-t Corr (s) | 812982 812982 | 1301.163 | 1 | 12/1 | 0.999736 | 325 04 02.92 | 1.0 | 618090 618090 | 1588.135 | 1 | 10/1 | 0.999737 | 187 03 45.92 | 0.8 | 994988 994988 | 1747.965 | 1 | 9/1 | 0.999738 | 205 11 57.52 | 0.7 | 139592 652+8.7 | 1822.141 | 1 | 12/1 | 0.999738 | 150 16 07.09 | 0.9 | 957944 957944 | 1948.465 | 1 | 9/1 | 0.999736 | 327 59 09.41 | 0.8 | 110841 655+8.99 | 2044.544 | 1 | 8/1 | 0.999737 | 276 49 50.62 | 0.7 | |
|---|---|----------------------------|---------------------------------|-----------------------|-------------------|-----------------------|----------------|-----------------|---------------|----------|---|------|----------|--------------|-----|---------------|----------|---|------|----------|--------------|-----|---------------|----------|---|-----|----------|--------------|-----|----------------|----------|---|------|----------|--------------|-----|---------------|----------|---|-----|----------|--------------|-----|-----------------|----------|---|-----|----------|--------------|-----|--|
| ASCM Tablet To Markings | Horizontal Distance (m) (cm) | Std Dev Order | Grid/ Grnd Factor | Grid Bearing (dms) | Std Dev (s) | T-t Corr (s) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 812982 812982 | 1301.163 | 1 | 12/1 | 0.999736 | 325 04 02.92 | 1.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 618090 618090 | 1588.135 | 1 | 10/1 | 0.999737 | 187 03 45.92 | 0.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 994988 994988 | 1747.965 | 1 | 9/1 | 0.999738 | 205 11 57.52 | 0.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 139592 652+8.7 | 1822.141 | 1 | 12/1 | 0.999738 | 150 16 07.09 | 0.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 957944 957944 | 1948.465 | 1 | 9/1 | 0.999736 | 327 59 09.41 | 0.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| GEOID DATA (GSD95) Updated: 17-03-20 | | |
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| <table border="0" style="width: 100%;"> <tr> <th style="text-align: left;">Component</th> <th style="text-align: left;">Magnitude</th> <th style="text-align: left;">Std Dev</th> </tr> <tr> <td>Meridian Defl, XI(+N)</td> <td>3.0 s</td> <td>2 s</td> </tr> <tr> <td>Prime Vert Defl, ETA(+E)</td> <td>3.5 s</td> <td>2 s</td> </tr> <tr> <td>Geoid_Ellip Separation</td> <td>-16.44 m</td> <td>1 m</td> </tr> </table> | Component | Magnitude | Std Dev | Meridian Defl, XI(+N) | 3.0 s | 2 s | Prime Vert Defl, ETA(+E) | 3.5 s | 2 s | Geoid_Ellip Separation | -16.44 m | 1 m | MARKER TYPE | Updated: 1995-02-03 |
|---|-----------|-----------|---------|-----------------------|-------|-----|--------------------------|-------|-----|------------------------|----------|-----|-------------|---------------------|
| Component | Magnitude | Std Dev | | | | | | | | | | | | |
| Meridian Defl, XI(+N) | 3.0 s | 2 s | | | | | | | | | | | | |
| Prime Vert Defl, ETA(+E) | 3.5 s | 2 s | | | | | | | | | | | | |
| Geoid_Ellip Separation | -16.44 m | 1 m | | | | | | | | | | | | |

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| | GSC TABLET STAMPED 756032, IN TOP OF A 30.5 CM X 1.22 M CONCRETE BLOCK. 1.0 M EAST NORTH EAST OF GP | |
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| COORDINATE HISTORY HORZ VERT | MARKER LOCATION | Updated: 2001-08-17 |
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| Originating Project 76075 76075 Published 85-02-19 85-02-19 Revising Project NAD83 98014 Published 94-05-24 99-08-16 Revising Project Published Revising Project Published | LOCATED ON THE SOUTH ROAD ALLOWANCE ON TOP OF A SMALL KNOLL NEAR THE FENCE LINE IN THE NORTH WEST 1/4 OF SEC 7-24-28-W4; FROM THE INTERSECTION OF 17 AVE SOUTH EAST AND 68 STREET SOUTH EAST IN CALGARY; PROCEED EAST ON HIGHWAY #1A OR 17 AVENUE SOUTH EAST FOR 2.41 KM TO THE KNOLL AND THE STATION SITE ON THE SOUTH ROAD ALLOWANCE; 45.0 CM NORTH OF BARB WIRE FENCE; 1.4 M EAST NORTH EAST OF MIDDLE BLUE GEODETIC SURVEY GUARD POST; SURVEY WITNESS SIGN POSTS WERE PLACED NEAR THE THREE MARKERS. STATIONS GARY, BULL, BEN AND NOSE 2 MAY BE SEEN FROM THE GROUND. REF A (756032 A) DIST. 13.387 M AZ. 88-44-00 DELE. -0.700 M REF B (756032 B) DIST. 16.835 M AZ. 268-44-00 DELE. -0.500 M | |
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| NON COORDINATE REVISIONS | NOTE: REF A AND B REPORTED AS NOT FOUND - 1999/06/21. | |
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| 1976-01-01 FIRST MARKER LOCATION DESCRIPTION ENTERED 2017-03-20 "MAPSHEET NAME" AND/OR "MAPSHEET NO" CHANGED 2003-03-12 "MAPSHEET NAME" AND/OR "MAPSHEET NO" CHANGED | MARKER CONDITION COMMENTS | <table border="0" style="width: 100%;"> <tr> <th style="text-align: left;">Inspected</th> <th style="text-align: left;">Updated</th> </tr> <tr> <td>1999-06-21</td> <td>2001-08-17</td> </tr> <tr> <td>1994-06-06</td> <td>1995-02-03</td> </tr> <tr> <td>1992-06-03</td> <td>1992-07-08</td> </tr> <tr> <td>1989-03-20</td> <td>1989-07-12</td> </tr> </table> | Inspected | Updated | 1999-06-21 | 2001-08-17 | 1994-06-06 | 1995-02-03 | 1992-06-03 | 1992-07-08 | 1989-03-20 | 1989-07-12 |
|--|---------------------------|---|-----------|---------|------------|------------|------------|------------|------------|------------|------------|------------|
| Inspected | Updated | | | | | | | | | | | |
| 1999-06-21 | 2001-08-17 | | | | | | | | | | | |
| 1994-06-06 | 1995-02-03 | | | | | | | | | | | |
| 1992-06-03 | 1992-07-08 | | | | | | | | | | | |
| 1989-03-20 | 1989-07-12 | | | | | | | | | | | |

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| COORDINATE HISTORY COMMENTS | | |
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| HORZ 94-05-24 | ALBERTA NAD83 READJUSTMENT | |
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| HISTORICAL/OTHER MARKER NAMES | | |
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| OLD ASC # 56553 8 7 NGBD # 756032 NGBD NAME HUB HISTORY 56553 8 7 | VERT 99-08-16 | 0.021 m ELEVATION REVISED AND REINTEGRATED |
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