NGS FORM-292

# AERONAUTICAL DATA SHEET
# NATIONAL GEODETIC SURVEY

DATE GENERATED: 09/12/2007

PROJECT NUMBER: 51
ARPT IDENTIFIER: BIS — SITE NUMBER: 17265.A
ARPT NAME: BISMARCK MUNICIPAL AIRPORT — SURVEY DATE: 07/26/2006
CITY: BISMARCK — HORIZONTAL DATUM: NAD83
STATE: NORTH DAKOTA — VERTICAL DATUM: NAVD88
ARPT ELEVATION: 1661.3 — DISTANCE FROM RWY END: 21+0 — ATCT FLOOR ELEV: 1711.0
AIRPORT REFERENCE POINT — LATITUDE: 464621.8 — LONGITUDE: -1004444.7 — DECLINATION: 7.3E

## RUNWAY INFORMATION

RUNWAY: 3/21 LENGTH: 6600 WIDTH: 100 SURFACE TYPE: SPECIALLY PREPARED HARD SURFACE - PAVED

RUNWAY END DATA — DISPLACED THRESHOLD DATA

| RWY | GEODETIC LATITUDE | GEODETIC LONGITUDE | ELEV | AZ (N) | TDZE | LENGTH | LATITUDE | LONGITUDE | ELEV |
|---|---|---|---|---|---|---|---|---|---|
| 3 | 464545.4195 | -1004454.2923 | 1660.7 | 390141 | 1660.7 | | | | |
| 21 | 464636.0184 | -1004354.5860 | 1661.3 | 2190225 | 1661.3 | | | | |

## PROFILE DATA

DISTANCES FROM APPROACH END 3

| DISTANCE | ELEV |
|---|---|
| 0 | 1660.7 |
| 1731 | 1647.2 |
| 2806 | 1643.8 |
| 3297 | 1643.0 |
| 4511 | 1645.1 |
| 6600 | 1661.3 |

DISTANCES FROM APPROACH END 21

| DISTANCE | ELEV |
|---|---|
| 0 | 1661.3 |
| 2089 | 1645.1 |
| 3302 | 1643.0 |
| 3794 | 1643.8 |
| 4869 | 1647.2 |
| 6600 | 1660.7 |

RUNWAY: 13/31 LENGTH: 8794 WIDTH: 150 SURFACE TYPE: SPECIALLY PREPARED HARD SURFACE - PAVED

RUNWAY END DATA

| RWY | GEODETIC LATITUDE | GEODETIC LONGITUDE | ELEV | AZ (N) | TDZE |
|---|---|---|---|---|---|
| 13 | 464702.2288 | -1004542.4306 | 1654.4 | 1373455 | 1655.2 |
| 31 | 464558.1446 | -1004417.2288 | 1645.0 | 3173557 | 1645.2 |

DISPLACED THRESHOLD DATA

| LENGTH | LATITUDE | LONGITUDE | ELEV |
|---|---|---|---|

PROFILE DATA

DISTANCES FROM APPROACH END 13

| DISTANCE | ELEV |
|---|---|
| 0 | 1654.4 |
| 784 | 1655.0 |
| 2747 | 1649.5 |
| 3857 | 1650.1 |
| 5441 | 1645.6 |
| 7588 | 1643.8 |
| 8794 | 1645.0 |

DISTANCES FROM APPROACH END 31

| DISTANCE | ELEV |
|---|---|
| 0 | 1645.0 |
| 1206 | 1643.8 |
| 3353 | 1645.6 |
| 4937 | 1650.1 |
| 6046 | 1649.5 |
| 8010 | 1655.0 |
| 8794 | 1654.4 |

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SITE NUMBER: 17265.A
SURVEY DATE: 07/26/2006
HORIZONTAL DATUM: NAD83
VERTICAL DATUM: NAVD88

NAVIGATIONAL AID INFORMATION

| ELECTRONIC | | LATITUDE | LONGITUDE | ELEV | OFFSET DISTANCE | ALONG CNTRLN DISTANCE |
|---|---|---|---|---|---|---|
| ASR | (BIS) | 464642.2555 | -1004427.8909 | 1672.3 | | |
| GS | (13) | 464656.6761 | -1004527.7518 | 1651.5 | | |
| GS | (13) PP | 464654.1814 | -1004531.7268 | 1654.5 | 375L | 1104 |
| GS | (31) | 464607.6194 | -1004422.0378 | 1640.9 | | |
| GS | (31) PP | 464604.9565 | -1004426.2816 | 1644.1 | 400R | 935 |
| LOC | (13) | 464551.2064 | -1004408.0029 | 1648.9 | | 952 |
| LOC | (31) | 464709.4768 | -1004552.0733 | 1649.9 | | 995 |
| MM | (13) | 464723.4930 | -1004610.5125 | | | 2909 |
| MM | (31) | 464539.2454 | -1004352.1079 | | | 2593 |
| NDB | (BI) | 464152.5289 | -1003851.3547 | | | |
| OM | (13) | 465111.4082 | -1005113.7203 | | | 34181 |
| OM | (31) | 464153.1503 | -1003852.1636 | | | 33600 |
| VOR/DME | (BIS) | 464542.3392 | -1003955.4606 | 1841.4 | | |

| VISUAL | | LATITUDE | LONGITUDE |
|---|---|---|---|
| ALS | (13) | | |
| ALS | (31) | | |
| APBN | | 464549.0338 | -1004508.0310 |
| PAPI | (3) | | |
| PAPI | (21) | | |
| PAPI | (31) | | |
| REIL | (3) | | |
| REIL | (21) | | |
| VASI | (13) | | |

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OBSTRUCTION INFORMATION

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3 BV

| OBJECT | LATITUDE | LONGITUDE | A | ELEV | AGL | HAR | HAT | HAA | DEND | DTHR | DCLN | PNTR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EQUIP | 464607.60 | -1004423.52 | 1A | 1660 | | -1 | -1 | -1 | -3095 | | 249R | 16 |
| FENCE | 464538.48 | -1004508.91 | 1A | 1666 | | 5 | 5 | 5 | 1187 | | 348L | -44 |
| TREE | 464531.04 | -1004514.23 | 1A | 1680 | | 19 | 19 | 19 | 2006 | | 161L | -71 |

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21 BV

| OBJECT | LATITUDE | LONGITUDE | A | ELEV | AGL | HAR | HAT | HAA | DEND | DTHR | DCLN | PNTR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EQUIP | 464607.60 | -1004423.52 | 1A | 1660 | | -1 | -1 | -1 | -3505 | | 249L | 16 |
| GRD | 464637.66 | -1004347.27 | 1A | 1665 | | 4 | 4 | 4 | 449 | | *291L | -9 |
| GRD | 464640.79 | -1004343.34 | 1A | 1670 | | 9 | 9 | 9 | 869 | | 303L | -25 |
| POLE | 464653.77 | -1004328.39 | 1A | 1687 | | 26 | 26 | 26 | 2546 | | 283L | -92 |
| POLE | 464656.88 | -1004333.90 | 1A | 1686 | | 25 | 25 | 25 | 2549 | | 213R | -93 |
| POLE | 464655.36 | -1004331.12 | 1A | 1687 | | 26 | 26 | 26 | 2550 | | 34L | -92 |

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13 PIR

| OBJECT | LATITUDE | LONGITUDE | A | ELEV | AGL | HAR | HAT | HAA | DEND | DTHR | DCLN | PNTR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ROD ON OL GS | 464607.62 | -1004422.04 | 1A | 1672 | | 18 | 17 | 11 | -7859 | | 400L | 28 |
| EQUIP | 464607.60 | -1004423.52 | 1A | 1660 | | 6 | 5 | -1 | -7791 | | 323L | 16 |
| ROD ON OL AMOM | 464635.23 | -1004456.47 | 1A | 1682 | | 28 | 27 | 21 | -4177 | | *516L | 33 |
| OL GS | 464656.68 | -1004527.75 | 1A | 1702 | | 48 | 47 | 41 | -1104 | | 375L | 48 |
| BUSH | 464703.87 | -1004550.57 | 1A | 1659 | | 5 | 4 | -2 | 505 | | 306R | -2 |
| ANT ON BLDG | 464710.95 | -1004548.78 | 1A | 1664 | | 10 | 9 | 3 | 950 | | 270L | -5 |
| OL LOC | 464709.48 | -1004552.07 | 1A | 1658 | | 4 | 3 | -3 | 995 | | 0R | -12 |
| RD(N) | 464713.75 | -1004545.81 | 1A | 1674 | | 20 | 19 | 13 | 1021 | | 614L | 4 |
| LT POLE | 464715.27 | -1004547.89 | 1A | 1674 | | 20 | 19 | 13 | 1231 | | 611L | -1 |

13 PIR (CONTINUED)

| OBJECT | LATITUDE | LONGITUDE | A | ELEV | AGL | HAR | HAT | HAA | DEND | DTHR | DCLN | PNTR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LT POLE | 464713.38 | -1004551.80 | 1A | 1673 | | 19 | 18 | 12 | 1274 | | 281L | -3 |
| LT POLE | 464712.82 | -1004553.73 | 1A | 1674 | | 20 | 19 | 13 | 1322 | | 143L | -2 |
| VENT ON BLDG | 464717.18 | -1004549.58 | 1A | 1685 | | 31 | 30 | 24 | 1454 | | 655L | 5 |
| TREE | 464715.21 | -1004556.53 | 1A | 1692 | | 38 | 37 | 31 | 1633 | | 162L | 9 |
| OL POLE | 464718.91 | -1004551.23 | 1A | 1696 | | 42 | 41 | 35 | 1661 | | 688L | 13 |
| TREE | 464717.20 | -1004554.10 | 1A | 1701 | | 47 | 46 | 40 | 1668 | | 424L | 17 |
| TREE | 464716.49 | -1004603.74 | 1A | 1694 | | 40 | 39 | 33 | 2067 | | 120R | 3 |
| TREE | 464724.67 | -1004632.78 | 1A | 1731 | | 77 | 76 | 70 | 4042 | | 1053R | -1 |
| ANT ON TWR | 464837.63 | -1004746.33 | 1A | 1883 | | 229 | 228 | 222 | 12951 | | 158L | -40 |

31 PIR

| OBJECT | LATITUDE | LONGITUDE | A | ELEV | AGL | HAR | HAT | HAA | DEND | DTHR | DCLN | PNTR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OL GS | 464656.68 | -1004527.75 | 1A | 1702 | | 57 | 57 | 41 | -7689 | | 375R | 48 |
| ROD ON OL AMOM | 464635.23 | -1004456.47 | 1A | 1682 | | 37 | 37 | 21 | -4617 | | *516R | 33 |
| EQUIP | 464607.60 | -1004423.52 | 1A | 1660 | | 15 | 15 | -1 | -1003 | | 323R | 16 |
| ROD ON OL GS | 464607.62 | -1004422.04 | 1A | 1672 | | 27 | 27 | 11 | -935 | | 400R | 28 |
| ANT ON BLDG | 464553.06 | -1004405.60 | 1A | 1665 | | 20 | 20 | 4 | 926 | | 251R | 5 |
| OL LOC | 464551.21 | -1004408.00 | 1A | 1656 | | 11 | 11 | -5 | 952 | | 0R | -4 |
| RD(N) | 464550.83 | -1004353.54 | 1A | 1670 | | 25 | 25 | 9 | 1660 | | 718R | -5 |
| TREE | 464550.27 | -1004352.55 | 1A | 1686 | | 41 | 41 | 25 | 1747 | | 731R | 10 |
| TREE | 464549.72 | -1004350.63 | 1A | 1696 | | 51 | 51 | 35 | 1879 | | *792R | 18 |
| TREE | 464547.69 | -1004352.59 | 1A | 1689 | | 44 | 44 | 28 | 1939 | | 552R | 10 |
| TREE | 464549.01 | -1004349.46 | 1A | 1696 | | 51 | 51 | 35 | 1987 | | *804R | 15 |
| TREE | 464546.14 | -1004352.61 | 1A | 1688 | | 43 | 43 | 27 | 2054 | | 446R | 6 |
| TREE | 464544.80 | -1004352.64 | 1A | 1679 | | 34 | 34 | 18 | 2153 | | 352R | -5 |
| TREE | 464545.38 | -1004349.45 | 1A | 1701 | | 56 | 56 | 40 | 2259 | | 556R | 15 |
| TREE | 464542.48 | -1004347.26 | 1A | 1696 | | 51 | 51 | 35 | 2579 | | 471R | 4 |
| TREE | 464533.23 | -1004401.37 | 1A | 1684 | | 39 | 39 | 23 | 2609 | | *887L | -9 |
| TREE | 464533.39 | -1004400.07 | 1A | 1690 | | 45 | 45 | 29 | 2658 | | 809L | -4 |

ARP HCT

| OBJECT | LATITUDE | LONGITUDE | A | ELEV | AGL | HAA | MAG BEARING | DISTANCE | PNTR |
|---|---|---|---|---|---|---|---|---|---|
| ANT ON BLDG | 464619.33 | -1004506.72 | 1A | 1674 | 13 | | 25326 | 1553 | -58 |
| ROD ON OL AMOM | 464635.23 | -1004456.47 | 1A | 1682 | 21 | | 32138 | 1588 | 30 |
| ANT ON OL ATCT | 464617.70 | -1004510.75 | 1A | 1732 | 71 | | 24947 | 1860 | -46 |
| ROD ON ASR | 464642.26 | -1004427.89 | 1A | 1717 | 56 | | 2208 | 2380 | -94 |
| BUSH | 464605.63 | -1004415.07 | 1A | 1647 | -14 | | 12108 | 2634 | -16 |
| TREE | 464549.28 | -1004436.17 | 1A | 1733 | 72 | | 16229 | 3348 | 12 |
| WSK | 464650.76 | -1004512.55 | 1A | 1672 | 11 | | 31915 | 3517 | -15 |
| POLE | 464556.65 | -1004401.21 | 1A | 1673 | 12 | | 12246 | 3957 | -2 |
| GRD | 464642.12 | -1004353.80 | 1A | 1667 | 6 | | 5232 | 4098 | -19 |
| GRD | 464637.66 | -1004347.27 | 1A | 1665 | 4 | | 6048 | 4308 | -11 |
| POLE | 464554.38 | -1004354.17 | 1A | 1694 | 33 | | 12059 | 4482 | -11 |
| TREE | 464549.72 | -1004350.63 | 1A | 1696 | 35 | | 12330 | 4973 | 12 |
| TREE | 464549.01 | -1004349.46 | 1A | 1696 | 35 | | 12330 | 5082 | 10 |
| TREE | 464638.11 | -1004332.19 | 2C | 1697 | 36 | | 6433 | 5311 | -114 |
| RD(N) | 464714.43 | -1004501.43 | 1A | 1685 | 24 | | 34023 | 5458 | -126 |
| POLE | 464656.22 | -1004547.04 | 1A | 1674 | 13 | | 30130 | 5567 | -2 |
| FENCE | 464657.25 | -1004546.62 | 1A | 1659 | -2 | | 30230 | 5611 | -3 |
| TREE | 464533.23 | -1004401.37 | 1A | 1684 | 23 | | 14111 | 5772 | -12 |
| TREE | 464530.57 | -1004522.22 | 1A | 1698 | 37 | | 19925 | 5811 | -86 |
| TREE | 464526.58 | -1004529.47 | 1A | 1706 | 45 | | 20149 | 6404 | -105 |
| TREE | 464714.44 | -1004541.32 | 1A | 1708 | 47 | | 31614 | 6631 | -2 |
| LT POLE | 464718.41 | -1004546.97 | 1A | 1702 | 41 | | 31537 | 7189 | -4 |
| ANT ON OL TWR | 464736.28 | -1004557.13 | 1A | 1773 | 112 | | 31858 | 9075 | -30 |
| GRD | 464440.86 | -1004351.04 | 1B | 1829 | 168 | | 15237 | 10888 | 18 |
| GRD | 464427.81 | -1004350.57 | 1B | 1835 | 174 | | 15437 | 12149 | 23 |
| GRD | 464418.77 | -1004359.23 | 1B | 1827 | 166 | | 15826 | 12861 | 16 |
| TREE | 464410.19 | -1004420.51 | 1B | 1852 | 191 | | 16529 | 13441 | 1 |
| TREE | 464843.04 | -1004519.63 | 1B | 1847 | 186 | | 34304 | 14516 | 25 |
| TREE | 464853.14 | -1004520.17 | 1A | 1901 | 240 | | 34333 | 15531 | 29 |
| TREE | 464857.17 | -1004522.58 | 1B | 1905 | 244 | | 34312 | 15961 | 14 |
| TREE | 464910.37 | -1004517.65 | 1B | 1962 | 301 | | 34503 | 17232 | 2 |

AERONAUTICAL DATA IS AVAILABLE ON THE INTERNET AT HTTP://WWW.NGS.NOAA.GOV.

ADDITIONAL INFORMATION ON DATA STANDARDS CAN BE FOUND IN FAA NO. 405, "STANDARDS FOR AERONAUTICAL SURVEYS AND RELATED PRODUCTS".

AN ASTERISK "*" INDICATES THAT THIS OBJECT IS OUTSIDE, BUT WITHIN 50 FEET, OF THE OBSTRUCTION IDENTIFICATION SURFACE.