

AERONAUTICAL DATA SHEET
NATIONAL GEODETIC SURVEY

DATE GENERATED: 01/08/2004

PROJECT NUMBER: 218
ARPT IDENTIFIER: TYS
ARPT NAME: MC GHEE-TYSON AIRPORT
CITY: KNOXVILLE
STATE: TENNESSEE
ARPT ELEVATION: 980.8
AIRPORT REFERENCE POINT

DISTANCE FROM RWY END: 23R+2295
LATITUDE: 354839.5
LONGITUDE: -835938.5

SITE NUMBER: 23046.A
SURVEY DATE: 12/09/2002
HORIZONTAL DATUM: NAD83
VERTICAL DATUM: NAVD88
ATCT FLOOR ELEV: 1056.0
DECLINATION: 4.6W

RUNWAY INFORMATION

RUNWAY: 5L/23R LENGTH: 9005 WIDTH: 150 SURFACE TYPE: SPECIALLY PREPARED HARD SURFACE - PAVED

RUNWAY END DATA
GEODETIC

DISPLACED THRESHOLD DATA

| RWY | LATITUDE | LONGITUDE | ELEV | AZ (N) | TDZE | LENGTH | LATITUDE | LONGITUDE | ELEV |
|-----|-------------|--------------|-------|---------|-------|--------|----------|-----------|------|
| 5L | 354815.5883 | -840019.6773 | 922.6 | 444846 | 952.6 | | | | |
| 23R | 354918.7544 | -835902.6161 | 976.4 | 2244931 | 980.8 | | | | |

PROFILE DATA

DISTANCES FROM APPROACH END 5L

DISTANCES FROM APPROACH END 23R

| DISTANCE | ELEV |
|----------|-------|
| 0 | 922.6 |
| 5226 | 974.5 |
| 5902 | 978.9 |
| 6710 | 980.8 |
| 9005 | 976.4 |

| DISTANCE | ELEV |
|----------|-------|
| 0 | 976.4 |
| 2295 | 980.8 |
| 3103 | 978.9 |
| 3779 | 974.5 |
| 9005 | 922.6 |

RUNWAY: 5R/23L LENGTH: 9000 WIDTH: 150 SURFACE TYPE: SPECIALLY PREPARED HARD SURFACE - PAVED

RUNWAY END DATA
GEODETIC

DISPLACED THRESHOLD DATA

| RWY | LATITUDE | LONGITUDE | ELEV | AZ (N) | TDZE | LENGTH | LATITUDE | LONGITUDE | ELEV |
|-----|-------------|--------------|-------|---------|-------|--------|-------------|--------------|-------|
| 5R | 354800.2533 | -840014.4126 | 938.4 | 444822 | 959.2 | | | | |
| 23L | 354903.3925 | -835857.4060 | 962.4 | 2244907 | 965.2 | 400 | 354900.5870 | -835900.8288 | 962.2 |

DISTANCES FROM APPROACH END 5R

| DISTANCE | ELEV |
|----------|-------|
| 0 | 938.4 |
| 2259 | 956.3 |
| 2764 | 958.8 |
| 6842 | 965.1 |
| 8600 | 962.2 |
| 9000 | 962.4 |

DISTANCES FROM APPROACH END 23L

| DISTANCE | ELEV |
|----------|-------|
| 0 | 962.4 |
| 400 | 962.2 |
| 2159 | 965.1 |
| 6236 | 958.8 |
| 6741 | 956.3 |
| 9000 | 938.4 |

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NAVIGATIONAL AID INFORMATION

| ELECTRONIC | LATITUDE | LONGITUDE | ELEV | OFFSET DISTANCE | ALONG CNTRLN DISTANCE |
|--------------|-------------|--------------|--------|--------------------|--------------------------|
| ASR (TYS) | 354843.9979 | -840034.5187 | 1034.6 | | |
| GS (5L) | 354824.8156 | -840015.2648 | 927.4 | | |
| GS (5L) PP | 354822.0292 | -840011.8219 | 931.8 | 400L | 918 |
| GS (23R) | 354914.3328 | -835914.8479 | 975.1 | | |
| GS (23R) PP | 354911.5491 | -835911.4089 | 978.5 | 399R | 1027 |
| IM (23R) | 354925.3101 | -835854.6152 | | | 935 |
| LOC (5L) | 354927.5764 | -835851.8478 | 975.0 | | 1258 |
| LOC (23R) | 354808.2992 | -840028.5648 | 905.6 | | 1039 |
| LOM (5L) | 354431.9728 | -840452.3246 | | | 31877 |
| MM (5L) | 354750.7969 | -840049.7986 | | | 3527 |
| MM (23R) | 354935.5806 | -835841.7181 | | | 2420 |
| OM (23R) | 355218.4743 | -835528.6203 | | | 25312 |
| VORTAC (VXV) | 355417.4190 | -835341.0148 | 1289.6 | | |

| VISUAL | LATITUDE | LONGITUDE |
|------------|-------------|--------------|
| ALS (5L) | | |
| ALS (23R) | | |
| APBN | 354838.2219 | -835904.7821 |
| PAPI (5R) | | |
| PAPI (23L) | | |
| REIL (5R) | | |
| REIL (23L) | | |
| VASI (5L) | | |
| VASI (23R) | | |

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OBSTRUCTION INFORMATION

5L PIR

| OBJECT | LATITUDE | LONGITUDE | A | ELEV | AGL | HAR | HAT | HAA | DEND | DTHR | DCLN | PNTR |
|----------------|-----------|------------|----|------|-----|-----|-----|-----|-------|------|-------|------|
| ROD ON OL GS | 354914.33 | -835914.85 | 1A | 1019 | | 96 | 66 | 38 | -7978 | | 399L | 41 |
| ROD ON OL TMOM | 354914.82 | -835915.66 | 1A | 996 | | 73 | 43 | 15 | -7966 | | 481L | 17 |
| ROD ON OL TMOM | 354912.64 | -835917.28 | 1A | 996 | | 73 | 43 | 15 | -7715 | | 421L | 17 |
| GRD | 354908.48 | -835923.61 | 1A | 989 | | 66 | 36 | 8 | -7049 | | 494L | 8 |
| POST | 354853.10 | -835942.20 | 1A | 985 | | 62 | 32 | 4 | -4867 | | 484L | 14 |
| POST | 354850.55 | -835940.09 | 1A | 973 | | 50 | 20 | -8 | -4807 | | 179L | 2 |
| ROD ON OL TMOM | 354850.91 | -835944.94 | 1A | 988 | | 65 | 35 | 7 | -4551 | | 488L | 20 |
| ROD ON OL TMOM | 354848.75 | -835946.48 | 1A | 988 | | 65 | 35 | 7 | -4306 | | 423L | 22 |
| GRD | 354846.75 | -835949.62 | 1A | 969 | | 46 | 16 | -12 | -3981 | | 465L | 6 |
| ROD ON OL TMOM | 354829.64 | -840009.60 | 1A | 953 | | 30 | 0 | -28 | -1593 | | 413L | 14 |
| ROD ON OL GS | 354824.82 | -840015.26 | 1A | 970 | | 47 | 17 | -11 | -918 | | 400L | 38 |
| OL ON LOC | 354808.30 | -840028.56 | 1A | 913 | | -10 | -40 | -68 | 1039 | | 0R | -27 |
| TREE | 354807.32 | -840040.06 | 1A | 963 | | 40 | 10 | -18 | 1777 | | 602L | 9 |
| TREE | 354805.75 | -840046.13 | 1A | 969 | | 46 | 16 | -12 | 2242 | | *844L | 5 |
| TREE | 354805.13 | -840045.45 | 1A | 970 | | 47 | 17 | -11 | 2247 | | 760L | 6 |
| TRMSN TWR | 354757.22 | -840057.92 | 1A | 971 | | 48 | 18 | -10 | 3538 | | 926L | -19 |
| TRMSN TWR | 354743.50 | -840048.56 | 1A | 991 | | 68 | 38 | 10 | 3979 | | 599R | -8 |

23R PIR

| OBJECT | LATITUDE | LONGITUDE | A | ELEV | AGL | HAR | HAT | HAA | DEND | DTHR | DCLN | PNTR |
|----------------|-----------|------------|----|------|-----|-----|-----|-----|-------|------|------|------|
| ROD ON OL GS | 354824.82 | -840015.26 | 1A | 970 | | -6 | -11 | -11 | -8087 | | 400R | 38 |
| ROD ON OL TMOM | 354829.64 | -840009.60 | 1A | 953 | | -23 | -28 | -28 | -7412 | | 413R | 14 |
| GRD | 354846.75 | -835949.62 | 1A | 969 | | -7 | -12 | -12 | -5024 | | 465R | 6 |
| ROD ON OL TMOM | 354848.75 | -835946.48 | 1A | 988 | | 12 | 7 | 7 | -4699 | | 423R | 22 |
| ROD ON OL TMOM | 354850.91 | -835944.94 | 1A | 988 | | 12 | 7 | 7 | -4454 | | 488R | 20 |
| POST | 354850.55 | -835940.09 | 1A | 973 | | -3 | -8 | -8 | -4198 | | 179R | 2 |
| POST | 354853.10 | -835942.20 | 1A | 985 | | 9 | 4 | 4 | -4138 | | 484R | 14 |

23R PIR (CONTINUED)

| OBJECT | LATITUDE | LONGITUDE | A | ELEV | AGL | HAR | HAT | HAA | DEND | DTHR | DCLN | PNTR |
|----------------|-----------|------------|----|------|-----|-----|-----|-----|-------|------|------|------|
| GRD | 354908.48 | -835923.61 | 1A | 989 | | 13 | 8 | 8 | -1956 | | 494R | 8 |
| ROD ON OL TMOM | 354912.64 | -835917.28 | 1A | 996 | | 20 | 15 | 15 | -1290 | | 421R | 17 |
| ROD ON OL TMOM | 354914.82 | -835915.66 | 1A | 996 | | 20 | 15 | 15 | -1039 | | 481R | 17 |
| ROD ON OL GS | 354914.33 | -835914.85 | 1A | 1019 | | 43 | 38 | 38 | -1027 | | 399R | 41 |
| RFLTR | 354923.90 | -835852.82 | 1A | 980 | | 4 | -1 | -1 | 937 | | 206L | -11 |
| OL ON LOC | 354927.58 | -835851.85 | 1A | 983 | | 7 | 2 | 2 | 1258 | | 0R | -15 |
| SIGN | 354928.14 | -835839.75 | 1A | 1003 | | 27 | 22 | 22 | 2001 | | 666L | -10 |
| TREE | 354938.89 | -835849.89 | 1A | 1028 | | 52 | 47 | 47 | 2183 | | 692R | 12 |
| POLE | 354939.57 | -835840.26 | 1A | 1015 | | 39 | 34 | 34 | 2791 | | 178R | -14 |
| TREE | 354959.11 | -835823.34 | 1A | 1064 | | 88 | 83 | 83 | 5175 | | 583R | -12 |
| ANT ON TWR | 354948.85 | -835809.26 | 1A | 1035 | | 59 | 54 | 54 | 5256 | | 971L | -43 |

5R C

| OBJECT | LATITUDE | LONGITUDE | A | ELEV | AGL | HAR | HAT | HAA | DEND | DTHR | DCLN | PNTR |
|-----------|-----------|------------|----|------|-----|-----|-----|-----|------|------|------|------|
| TRMSN TWR | 354735.05 | -840043.28 | 1A | 1025 | | 87 | 66 | 44 | 3484 | | 109R | -10 |

23L C

| OBJECT | LATITUDE | LONGITUDE | A | ELEV | AGL | HAR | HAT | HAA | DEND | DTHR | DCLN | PNTR |
|------------|-----------|------------|----|------|-----|-----|-----|-----|------|------|-------|------|
| SIGN | 354911.88 | -835844.23 | 1A | 982 | | 20 | 17 | 1 | 1374 | 1774 | 165L | -15 |
| TREE | 354915.89 | -835838.45 | 1A | 1004 | | 42 | 39 | 23 | 1997 | 2397 | 217L | -12 |
| FLGPL | 354925.25 | -835841.29 | 1A | 1013 | | 51 | 48 | 32 | 2503 | 2903 | *617R | -18 |
| ANT ON TWR | 354948.85 | -835809.26 | 1A | 1035 | | 73 | 70 | 54 | 6055 | 6455 | 428R | -100 |

ARP HCT

| OBJECT | LATITUDE | LONGITUDE | A | ELEV | AGL | HAA | MAG | BEARING | DISTANCE | PNTR |
|----------------|-----------|------------|----|------|-----|-----|-----|---------|----------|------|
| ROD ON POLE | 354844.47 | -835931.28 | 1A | 992 | | 11 | | 5424 | 778 | -18 |
| ANT ON OL ATCT | 354857.85 | -835948.53 | 1A | 1094 | | 113 | | 34036 | 2031 | 24 |
| ANT ON TWR | 354852.81 | -835957.09 | 1A | 1097 | | 116 | | 31556 | 2039 | 15 |

| ARP | HCT | (CONTINUED) | | | | | | | | | |
|----------------|-----|-------------|------------|----|------|-----|-----|-----|---------|----------|------|
| OBJECT | | LATITUDE | LONGITUDE | A | ELEV | AGL | HAA | MAG | BEARING | DISTANCE | PNTR |
| OL ON LTD WSK | | 354856.03 | -835913.03 | 1A | 995 | | 14 | | 5603 | 2683 | 11 |
| ROD ON OL APBN | | 354838.22 | -835904.78 | 1A | 1011 | | 30 | | 9715 | 2780 | -114 |
| ANT | | 354907.14 | -835937.41 | 1A | 1067 | | 86 | | 626 | 2796 | -13 |
| ANT ON OL TWR | | 354828.36 | -835905.99 | 1A | 1056 | | 75 | | 11725 | 2905 | -75 |
| TREE | | 354853.98 | -840017.64 | 1A | 1123 | | 142 | | 29902 | 3541 | -8 |
| ROD ON OL AMOM | | 354904.92 | -835908.63 | 1A | 1007 | | 26 | | 4820 | 3558 | 8 |
| OL TWR | | 354830.11 | -835852.26 | 1A | 1109 | | 128 | | 10836 | 3926 | -22 |
| LT | | 354916.37 | -835921.44 | 1A | 1045 | | 64 | | 2515 | 3984 | 4 |
| TREE | | 354920.77 | -835942.50 | 1A | 1139 | | 158 | | 5 | 4186 | 8 |
| TREE | | 354921.21 | -835941.39 | 2C | 1144 | | 163 | | 122 | 4225 | 13 |
| ROD ON RTR TWR | | 354923.09 | -835928.35 | 1A | 1123 | | 142 | | 1520 | 4487 | -8 |
| LT | | 354921.23 | -835916.07 | 1A | 1045 | | 64 | | 2814 | 4607 | 1 |
| ANT ON OL ASR | | 354844.00 | -840034.52 | 1A | 1130 | | 149 | | 28014 | 4637 | 0 |
| LT | | 354820.78 | -840029.89 | 1A | 987 | | 6 | | 25030 | 4637 | -2 |
| LT | | 354821.50 | -840033.89 | 1A | 1016 | | 35 | | 25251 | 4912 | -14 |
| ANT ON BLDG | | 354926.57 | -835907.82 | 1A | 1024 | | 43 | | 3233 | 5389 | -4 |
| LADDER ON TK | | 354811.51 | -840038.53 | 1A | 948 | | -33 | | 24449 | 5698 | -18 |
| OL ON BLDG | | 354843.23 | -835821.50 | 1A | 1150 | 216 | 169 | | 9111 | 6353 | 19 |
| TREE | | 354805.75 | -840046.13 | 1A | 969 | | -12 | | 24306 | 6533 | 0 |
| FLGPL | | 354925.25 | -835841.29 | 1A | 1013 | | 32 | | 5007 | 6604 | -2 |
| TREE | | 354940.98 | -835850.77 | 1A | 1047 | | 66 | | 3654 | 7356 | 18 |
| TREE | | 354941.88 | -835851.14 | 1A | 1059 | | 78 | | 3619 | 7417 | 17 |
| TREE | | 354952.70 | -835908.53 | 2C | 1160 | | 179 | | 2302 | 7803 | 29 |
| TRMSN TWR | | 354725.80 | -840038.70 | 1A | 1047 | | 66 | | 21814 | 8952 | -34 |
| ANT ON TWR | | 354948.85 | -835809.26 | 1A | 1035 | | 54 | | 5056 | 10159 | -96 |
| TREE | | 354951.57 | -840125.21 | 1A | 1182 | | 201 | | 31416 | 11417 | 17 |
| TREE | | 354954.14 | -840123.06 | 2C | 1203 | | 222 | | 31550 | 11451 | 36 |
| TREE | | 355021.39 | -840052.27 | 1A | 1159 | | 178 | | 33405 | 11961 | -16 |
| TREE | | 354750.99 | -840205.27 | 2C | 1155 | | 174 | | 25231 | 13048 | 24 |
| TREE | | 355035.46 | -835810.55 | 1A | 1206 | | 225 | | 3617 | 13783 | 75 |
| TREE | | 355037.15 | -835809.64 | 2C | 1220 | | 239 | | 3611 | 13968 | 89 |

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