

LW2797 HISTORY - 19981203 GOOD USPSQD
LW2797 HISTORY - 20041209 GOOD USPSQD

LW2797

STATION DESCRIPTION

LW2797

LW2797'DESCRIBED BY COAST AND GEODETIC SURVEY 1940 (PLB)

LW2797'STATION IS LOCATED ON THE SE CORNER OF AQUIDNECK ISLAND, ON A
LW2797'POINT OF LAND KNOWN AS SACHUEST POINT, AT THE S END OF A LONG
LW2797'LEDGE OUTCROP KNOLL THAT IS ABOUT 100 FT. WIDE AND RUNS N AND S
LW2797'ALONG THE E EDGE OF THE POINT, ABOUT 77 FT. E OF THE E MOST N-S
LW2797'STONE FENCE WHICH MARKS THE E BOUNDARY OF THE MOST SE CULTIVATED
LW2797'FIELD ON THE POINT.

LW2797'

LW2797'STATION IS A STANDARD REFERENCE MARK DISK, SET IN A DRILL HOLE IN
LW2797'ROCK OUTCROP FLUSH WITH THE SURFACE AND STAMPED SACHUEST O P 3 1940.

LW2797'

LW2797'STATION LOCATED BY TRAVERSE CONNECTION FROM STATION SACHUEST

LW2797'(U.S.E.) WHICH IS LOCATED ON THE SAME LEDGE ABOUT 60 M. N.

LW2797'

LW2797'THIS IS A TRAVERSE STATION.

LW2797

STATION RECOVERY (1969)

LW2797

LW2797'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1969 (RRG)

LW2797'THE STATION WAS RECOVERED AND IN GOOD CONDITION. THE STATION MAY
LW2797'BE REACHED BY GOING 4.05 MILES EAST ALONG MEMORIAL BLVD, PURGATORY
LW2797'ROAD AND SACHUEST POINT ROAD FROM THE MAIN POST OFFICE AT NEWPORT,
LW2797'THENCE 0.4 MILE SOUTHEAST ALONG A ROAD THRU A NAVY RESERVATION,
LW2797'SET ON THE TOP AND 28 FEET NORTH OF THE SOUTH END OF A 100 FOOT
LW2797'WIDE EXPOSED BEDROCK WHICH RUNS NORTH-SOUTH, 150 FEET NORTHWEST OF
LW2797'THE SOUTHEAST CORNER OF SACHUEST POINT, 196.1 FEET SOUTH OF
LW2797'TRIANGULATION STATION SACHUEST USE DESCRIBED AND 3 FEET ABOVE THE
LW2797'LEVEL OF THE GROUND. THE DISK IS A STANDARD RM DISK STAMPED
LW2797'SAUCHEST OP 3 1940.

LW2797

LW2797

STATION RECOVERY (1998)

LW2797

LW2797'RECOVERY NOTE BY US POWER SQUADRON 1998

LW2797'RECOVERED IN GOOD CONDITION.

LW2797

LW2797

STATION RECOVERY (2004)

LW2797

LW2797'RECOVERY NOTE BY US POWER SQUADRON 2004 (TG)

LW2797'RECOVERED IN GOOD CONDITION.

1 National Geodetic Survey, Retrieval Date = DECEMBER 15, 2005

LW0265 *****

LW0265 DESIGNATION - APORT

LW0265 PID - LW0265

LW0265 STATE/COUNTY- RI/NEWPORT

LW0265 USGS QUAD - PRUDENCE ISLAND (1975)

LW0265

LW0265 *CURRENT SURVEY CONTROL

LW0265

LW0265* NAD 83(1996)- 41 32 04.31634(N) 071 16 55.10210(W) ADJUSTED

LW0265* NAVD 88 - 48.185 (meters) 158.09 (feet) ADJUSTED

LW0265

LW0265 LAPLACE CORR- 3.04 (seconds) DEFLEC99

LW0265 GEOID HEIGHT- -29.87 (meters) GEOID03

LW0265 DYNAMIC HT - 48.169 (meters) 158.03 (feet) COMP

LW0265 MODELED GRAV- 980,296.2 (mgal) NAVD 88

LW0265

LW0265 HORZ ORDER - FIRST

LW0265 VERT ORDER - SECOND CLASS 0

LW0265

LW0265.This mark is at Newport State Airport (2B4)

LW0265

LW0265.The horizontal coordinates were established by classical geodetic methods

LW0265.and adjusted by the National Geodetic Survey in August 1998.

LW0265

LW0265.The orthometric height was determined by differential leveling

LW0265.and adjusted by the National Geodetic Survey in June 1991.

LW0265

LW0265.Photographs are available for this station.

LW0265

LW0265.The Laplace correction was computed from DEFLEC99 derived deflections.

LW0265

LW0265.The geoid height was determined by GEOID03.

LW0265

LW0265.The dynamic height is computed by dividing the NAVD 88

LW0265.geopotential number by the normal gravity value computed on the

LW0265.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

LW0265.degrees latitude (g = 980.6199 gals.).

LW0265

LW0265.The modeled gravity was interpolated from observed gravity values.

LW0265

LW0265; North East Units Scale Factor Converg.

LW0265;SPC RI - 50,132.748 118,194.653 MT 0.99999782 +0 08 40.4

LW0265;UTM 19 - 4,600,612.341 309,635.270 MT 1.00004598 -1 30 48.8

LW0265

LW0265! - Elev Factor x Scale Factor = Combined Factor

LW0265!SPC RI - 0.99999713 x 0.99999782 = 0.99999495

LW0265!UTM 19 - 0.99999713 x 1.00004598 = 1.00004311

LW0265

LW0265: Primary Azimuth Mark

Grid Az

LW0265:SPC RI - APORT AZ MK 178 28 04.0

LW0265:UTM 19 - APORT AZ MK 180 07 33.2

LW0265

LW0265|-----|

LW0265| PID Reference Object Distance Geod. Az |

LW0265| dddmmss.s |

LW0265| LW2383 S PORTSMOUTH NEWPORT STANDPIPE APPROX. 1.5 KM 0612127.4 |

LW0265| LW0264 APORT RM 1 10.196 METERS 13604 |

LW0265| LW5739 TBM NEWPORT TP 1 154.507 METERS 15251 |

LW0265| LW0263 APORT AZ MK APPROX. 0.6 KM 1783644.4 |

LW0265| LW2439 MEMO 1932 APPROX. 3.5 KM 2215221.9 |

LW0265| LW0266 APORT RM 2 10.939 METERS 32657 |

LW0265|-----|

LW0265

LW0265 SUPERSEDED SURVEY CONTROL

LW0265

LW0265 NAD 83(1996)- 41 32 04.31598(N) 071 16 55.10169(W) AD() 1

LW0265 NAD 83(1992)- 41 32 04.31472(N) 071 16 55.10134(W) AD() 1

LW0265 NAD 83(1992)- 41 32 04.31422(N) 071 16 55.10101(W) AD() 1

LW0265 NAD 83(1986)- 41 32 04.31438(N) 071 16 55.09951(W) AD() 1

LW0265 NAD 27 - 41 32 03.94546(N) 071 16 56.91948(W) AD() 1

LW0265 NGVD 29 (??/??/92) 48.447 (m) 158.95 (f) ADJ UNCH 2 0

LW0265

LW0265.Superseded values are not recommended for survey control.

LW0265.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

LW0265.See file dsdata.txt to determine how the superseded data were derived.

LW0265

LW0265_U.S. NATIONAL GRID SPATIAL ADDRESS: 19TCG0963500612(NAD 83)

LW0265_MARKER: DS = TRIANGULATION STATION DISK

LW0265_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

LW0265_SP_SET: CONCRETE POST

LW0265_STAMPING: APORT 1968

LW0265_MARK LOGO: CGS

LW0265_MAGNETIC: N = NO MAGNETIC MATERIAL

LW0265_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

LW0265+STABILITY: SURFACE MOTION

LW0265_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

LW0265+SATELLITE: SATELLITE OBSERVATIONS - July 07, 1989

LW0265

LW0265 HISTORY - Date Condition Report By

LW0265 HISTORY - 1968 MONUMENTED CGS

LW0265 HISTORY - 1969 GOOD NGS

LW0265 HISTORY - 1985 GOOD NGS

LW0265 HISTORY - 1985 GOOD NGS

LW0265 HISTORY - 19890707 GOOD RIGS

LW0265

LW0265 STATION DESCRIPTION

LW0265

LW0265'DESCRIBED BY COAST AND GEODETIC SURVEY 1968 (LMC)

LW0265'THE STATION IS LOCATED ABOUT 2-3/4 MILES NORTHEAST OF NEWPORT,

LW0265'1/2 MILE NORTHEAST OF MIDDLETOWN AND ON PROPERTY OF THE

LW0265'NEWPORT AIRPARK STATE AIRPORT.

LW0265'

LW0265'TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 138

LW0265'AND 114 AT THE NORTH EDGE OF NEWPORT, GO NORTHERLY ON HIGHWAY

LW0265'138 FOR 1.85 MILES TO A SIDE ROAD RIGHT. TURN RIGHT AND GO EAST

LW0265'ON FOREST ROAD FOR 0.5 MILE TO A T INTERSECTION. TURN LEFT AND

LW0265'GO NORTH ON A PAVED ROAD FOR 0.45 MILE TO THE AIRPORT PARKING

LW0265'AREA AND THE PASSENGER TERMINAL ON THE RIGHT. TURN LEFT AND

LW0265'FOLLOW THE NORTH AND SOUTH RUNWAY NORTH FOR 0.1 MILE TO THE

LW0265'STATION ON THE RIGHT AS DESCRIBED.

LW0265'

LW0265'ALL MARKS ARE STANDARD DISKS SET IN ROUND CONCRETE MONUMENTS.

LW0265'

LW0265'STATION MARK, STAMPED APORT 1968 IS SET FLUSH WITH THE GROUND

LW0265'SURFACE. IT IS 263 FEET NORTH OF THE CENTER OF THE RUNWAY, 4.8

LW0265'FEET SOUTH OF A FENCE AND 4.5 FEET SOUTH OF A METAL WITNESS POST.

LW0265'

LW0265'RM 1, STAMPED APORT NO 1 1968 IS SET FLUSH WITH THE GROUND

LW0265'SURFACE. IT IS 265 FEET NORTH OF THE CENTER OF THE RUNWAY, 32

LW0265'FEET EAST OF A METAL WITNESS POST AND 1.5 FEET SOUTH OF A FENCE.

LW0265'

LW0265'RM 2, STAMPED APORT NO 2 1968 IS SET FLUSH WITH THE GROUND

LW0265'SURFACE. IT IS 266 FEET NORTH OF THE CENTER OF THE RUNWAY,

LW0265'36.5 FEET WEST OF A METAL WITNESS POST AND 1.4 FEET SOUTH OF
LW0265'A FENCE.

LW0265'

LW0265'AZ MK, STAMPED APORT 1968 IS SET FLUSH WITH THE GROUND

LW0265'SURFACE. IT IS 68 FEET EAST OF THE CENTER OF A RUNWAY, 51.5

LW0265'FEET WEST OF A METAL WITNESS POST AND 51.5 FEET WEST OF A FENCE.

LW0265'

LW0265'TO REACH THE AZIMUTH MARK FROM THE AIRPORT PASSENGER TERMINAL,

LW0265'GO SOUTHEAST ON THE NORTHEAST AND SOUTHWEST RUNWAY FOR 0.25 MILE

LW0265'TO THE MARK ON THE LEFT SIDE OF THE RUNWAY.

LW0265'

LW0265'HEIGHT OF LIGHT ABOVE STATION MARK 2 METERS.

LW0265

LW0265

STATION RECOVERY (1969)

LW0265

LW0265'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1969

LW0265'AT NEWPORT.

LW0265'AT THE NEWPORT STATE AIRPORT, ABOUT 0.2 MILE NORTH OF THE AIRPORT

LW0265'TERMINAL BUILDING, 263 FEET NORTHEAST OF THE CENTER LINE OF THE

LW0265'NORTHWEST-SOUTHEAST RUNWAY, 276 FEET NORTHWEST ALONG A STEEL

LW0265'FENCE FROM THE SOUTH CORNER OF THE FENCE, 4.8 FEET SOUTHWEST

LW0265'OF A STEEL FENCE, 4.5 FEET SOUTHWEST OF A METAL WITNESS POST,

LW0265'ABOUT LEVEL WITH THE RUNWAY AND SET IN THE TOP OF A CONCRETE

LW0265'POST FLUSH WITH THE GROUND.

LW0265

LW0265

STATION RECOVERY (1985)

LW0265

LW0265'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1985 (VDN)

LW0265'THE STATION WAS RECOVERED AT THIS DATE.

LW0265'THE STATION MARK, REFERENCE MARKS 1 AND 2 WERE RECOVERED IN GOOD

LW0265'CONDITION. THE DISTANCES AND ANGLE BETWEEN THE REFERENCES AGREED

LW0265'WITH THE 1968 DATA. THE AZIMUTH MARK APPEARED TO HAVE MOVED AFTER

LW0265'BEING HIT, BUT THE MONUMENT WAS STILL SOLID. A NEW AND COMPLETE

LW0265'DESCRIPTION FOLLOWS.

LW0265'

LW0265'THE STATION IS LOCATED ABOUT 3.6 KM (2.25 MI)

LW0265'NORTHEAST OF NEWPORT, 1.1 KM (0.7 MI) SOUTHEAST OF MIDDLETOWN AND

LW0265'ON THE PROPERTY OF THE NEWPORT STATE AIRPORT.

LW0265'OWNERSHIP--STATE OF RHODE ISLAND, MR EUGENE ROBERTS AIRPORT

LW0265'MANAGER, NEWPORT STATE AIRPORT, MIDDLETOWN RI 02840, PHONE

LW0265'401-846-2200. NOTE-CONTACT AIRPORT MANAGER BEFORE ENTERING AIRPORT.

LW0265'

LW0265'TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 114 AND

LW0265'138 AT THE NORTH EDGE OF NEWPORT, GO NORTH ON HIGHWAY 114 FOR 1.6

LW0265'KM (0.95 MI) TO A PAVED SIDE ROAD RIGHT (FOREST ROAD). TURN RIGHT AND

LW0265'GO EAST-SOUTHEAST FOR 0.8 KM (0.5 MI) TO A T-ROAD AND THE ENTRANCE TO

LW0265'THE AIRPORT. TURN LEFT AND GO NORTH FOR 0.75 KM (0.45 MI) ON PAVED

LW0265'DRIVE TO A CHAIN LINK GATE IN FRONT OF AIRPORT TERMINAL. PROCEED

LW0265'THROUGH GATE AND TURN LEFT NORTHERLY ALONG TAXIWAY FOR 0.3 KM (0.2

LW0265'MI) TO RUNWAY 16-34. TURN LEFT ONTO RUNWAY 16 FOR 0.1 KM (0.05 MI)

LW0265'TO STATION ON RIGHT ON HIGH GROUND.

LW0265'

LW0265'THE STATION IS A STANDARD USC+GS DISK

LW0265'STAMPED---APORT 1968---

LW0265'SET INTO THE TOP OF A ROUND CONCRETE MONUMENT

LW0265'30 CM IN DIAMETER FLUSH WITH GROUND. LOCATED

LW0265'80.2 METERS (263 FT) NORTHEAST FROM THE CENTER OF RUNWAY 16,

LW0265'1.46 METERS (4.8 FT) SOUTH FROM A CHAIN LINK FENCE AND

LW0265'1.37 METERS (4.5 FT) SOUTH FROM A METAL WITNESS POST.

LW0265'THE UNDERGROUND MARK IS A STANDARD USC+GS DISK

LW0265'STAMPED---APORT 1968---

LW0265'SET INTO AN IRREGULAR MASS OF CONCRETE 1.1 METERS BELOW THE SURFACE.

LW0265'

LW0265'REFERENCE MARK NO. 1 IS A STANDARD USC+GS DISK
LW0265'STAMPED---APORT NO 1 1968---,
LW0265'SET INTO THE TOP OF A ROUND CONCRETE MONUMENT
LW0265'30 CM IN DIAMETER FLUSH WITH GROUND. LOCATED
LW0265'80.8 METERS (265 FT) NORTHEAST FROM THE CENTER OF RUNWAY 16,
LW0265'9.75 METERS (32 FT) SOUTHEAST FROM A METAL WITNESS POST AND
LW0265'0.46 METER (1.5 FT) SOUTHWEST FROM A CHAIN LINK FENCE.
LW0265'MARK IS LEVEL WITH THE STATION.

LW0265'

LW0265'REFERENCE MARK NO. 2 IS A STANDARD USC+GS DISK
LW0265'STAMPED---APORT NO 2 1968---,
LW0265'SET INTO THE TOP OF A ROUND CONCRETE MONUMENT
LW0265'30 CM IN DIAMETER FLUSH WITH GROUND. LOCATED
LW0265'81.1 METERS (266 FT) NORTHEAST FROM THE CENTER OF RUNWAY 16,
LW0265'11.13 METERS (36.5 FT) NORTHWEST FROM A METAL WITNESS POST AND
LW0265'0.43 METER (1.4 FT) SOUTHWEST FROM A CHAIN LINK FENCE.
LW0265'MARK IS 0.2 METER BELOW THE STATION.

LW0265'

LW0265'AZIMUTH MARK NO. 1 IS A STANDARD USC+GS DISK
LW0265'STAMPED---APORT 1968 AZ MK---,
LW0265'SET INTO THE TOP OF A ROUND CONCRETE MONUMENT
LW0265'30 CM IN DIAMETER FLUSH WITH GROUND. LOCATED
LW0265'23.2 METERS (76.0 FT) WEST FROM A METAL WITNESS POST AND
LW0265'20.7 METERS (68.0 FT) EAST FROM THE CENTER OF RUNWAY 4.
LW0265'TO REACH THE AZIMUTH FROM THE GATE IN FRONT OF THE TERMINAL,
LW0265'TURN RIGHT AND GO SOUTH FOR 0.2 KM (0.1 MI) ON PAVED PARKING AREA
LW0265'TO RUNWAY 4 AND THE AZIMUTH MARK ON THE EAST SIDE OF RUNWAY 4.

LW0265'

LW0265'AN EDM TIE WAS MADE TO APORT 1968 AZ MK AND NEWPORT RUNWAY 16.

LW0265

LW0265 STATION RECOVERY (1985)

LW0265

LW0265'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1985
LW0265'RECOVERED IN GOOD CONDITION. NEW DESCRIPTION FOLLOWS. THE STATION IS
LW0265'LOCATED ABOUT 3.6 KM (2.25 MI) NORTHEAST OF NEWPORT, 1.1 KM (0.7 MI)
LW0265'SOUTHEAST OF MIDDLETOWN AND ON THE PROPERTY OF THE NEWPORT STATE
LW0265'AIRPORT. OWNERSHIP--STATE OF RHODE ISLAND, MR EUGENE ROBERTS AIRPORT
LW0265'MANAGER, NEWPORT STATE AIRPORT, MIDDLETOWN RI 02840, PHONE
LW0265'401-846-2200. NOTE-CONTACT AIRPORT MANAGER BEFORE ENTERING AIRPORT.
LW0265'TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 114 AND 138
LW0265'AT THE NORTH EDGE OF NEWPORT, GO NORTH ON HIGHWAY 114 FOR 1.6 KM
LW0265'(0.95 MI) TO A PAVED SIDE ROAD RIGHT (FOREST ROAD). TURN RIGHT AND GO
LW0265'EAST-SOUTHEAST FOR 0.8 KM (0.5 MI) TO A T-ROAD AND THE ENTRANCE TO THE
LW0265'AIRPORT. TURN LEFT AND GO NORTH FOR 0.75 KM (0.45 MI) ON PAVED DRIVE
LW0265'TO A CHAIN LINK GATE IN FRONT OF AIRPORT TERMINAL. PROCEED THROUGH
LW0265'GATE AND TURN LEFT NORTHERLY ALONG TAXIWAY FOR 0.3 KM (0.2 MI) TO
LW0265'RUNWAY 16-34. TURN LEFT ONTO RUNWAY 16 FOR 0.1 KM (0.05 MI) TO STATION
LW0265'ON RIGHT ON HIGH GROUND. SET INTO THE TOP OF A ROUND CONCRETE
LW0265'MONUMENT 30 CM IN DIAMETER FLUSH WITH GROUND. LOCATED 80.2 METERS
LW0265'(263 FT) NORTHEAST FROM THE CENTER OF RUNWAY 16, 1.46 METERS (4.8 FT)
LW0265'SOUTH FROM A CHAIN LINK FENCE AND 1.37 METERS (4.5 FT) SOUTH FROM A
LW0265'METAL WITNESS POST.

LW0265

LW0265 STATION RECOVERY (1989)

LW0265

LW0265'RECOVERY NOTE BY RHODE ISLAND GEODETIC SURVEY 1989
LW0265'RECOVERED IN GOOD CONDITION.

1 National Geodetic Survey, Retrieval Date = DECEMBER 15, 2005

LW0254 *****

LW0254 DESIGNATION - RESERVOIR

LW0254 PID - LW0254

LW0254 STATE/COUNTY- RI/NEWPORT

LW0254 USGS QUAD - PRUDENCE ISLAND (1975)

LW0254

LW0254 *CURRENT SURVEY CONTROL

LW0254

LW0254* NAD 83(1996)- 41 33 46.94635(N) 071 17 05.31903(W) ADJUSTED

LW0254* NAVD 88 - 60.965 (meters) 200.02 (feet) ADJUSTED

LW0254

LW0254 X - 1,533,524.677 (meters) COMP

LW0254 Y - -4,526,651.650 (meters) COMP

LW0254 Z - 4,209,434.183 (meters) COMP

LW0254 LAPLACE CORR- 3.30 (seconds) DEFLEC99

LW0254 ELLIP HEIGHT- 31.08 (meters) (06/13/02) GPS OBS

LW0254 GEOID HEIGHT- -29.83 (meters) GEOID03

LW0254 DYNAMIC HT - 60.945 (meters) 199.95 (feet) COMP

LW0254 MODELED GRAV- 980,297.5 (mgal) NAVD 88

LW0254

LW0254 HORZ ORDER - FIRST

LW0254 VERT ORDER - SECOND CLASS 0

LW0254 ELLP ORDER - FOURTH CLASS II

LW0254

LW0254.The horizontal coordinates were established by classical geodetic methods

LW0254.and adjusted by the National Geodetic Survey in August 1998.

LW0254

LW0254.The orthometric height was determined by differential leveling

LW0254.and adjusted by the National Geodetic Survey in April 1995.

LW0254

LW0254.The X, Y, and Z were computed from the position and the ellipsoidal ht.

LW0254

LW0254.The Laplace correction was computed from DEFLEC99 derived deflections.

LW0254

LW0254.The ellipsoidal height was determined by GPS observations

LW0254.and is referenced to NAD 83.

LW0254

LW0254.The geoid height was determined by GEOID03.

LW0254

LW0254.The dynamic height is computed by dividing the NAVD 88

LW0254.geopotential number by the normal gravity value computed on the

LW0254.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

LW0254.degrees latitude (g = 980.6199 gals.).

LW0254

LW0254.The modeled gravity was interpolated from observed gravity values.

LW0254

LW0254; North East Units Scale Factor Converg.

LW0254;SPC RI - 53,298.402 117,949.928 MT 0.99999771 +0 08 34.0

LW0254;UTM 19 - 4,603,783.906 309,482.266 MT 1.00004670 -1 30 58.7

LW0254

LW0254! - Elev Factor x Scale Factor = Combined Factor

LW0254!SPC RI - 0.99999513 x 0.99999771 = 0.99999284

LW0254!UTM 19 - 0.99999513 x 1.00004670 = 1.00004182

LW0254

LW0254: Primary Azimuth Mark Grid Az

LW0254:SPC RI - S PORTSMOUTH NEWPORT STANDPIPE 148 06 07.7

LW0254:UTM 19 - S PORTSMOUTH NEWPORT STANDPIPE 149 45 40.4

LW0254

LW0254|-----|

LW0254| PID Reference Object Distance Geod. Az |

LW0254| dddmmss.s |