

US DEPARTMENT OF COMMERCE - NOAA  
 NOS - NATIONAL GEODETIC SURVEY  
 SILVER SPRING MD 20910 - July 11, 2002

CALIBRATION BASE LINE DATA  
 BASE LINE DESIGNATION: LOUISVILLE CBL  
 PROJECT ACCESSION NUMBER: 15458  
 NEAREST TOWN: PLEASURE RIDGE PARK

QUAD: N380853  
 KENTUCKY  
 JEFFERSON COUNTY

## LIST OF ADJUSTED DISTANCES (May 28, 2002)

FROM STATION	ELEV.(M)	TO STATION	ELEV.(M)	ADJ. DIST.(M) HORIZONTAL	ADJ. DIST.(M) MARK - MARK	STD. ERROR(MM)
LOUISVILLE 000 1989	137.000	LOUISVILLE 150 1989	137.105	150.0277	150.0278	.1
LOUISVILLE 000 1989	137.000	LOUISVILLE 430 1989	137.570	430.0214	430.0218	.2
LOUISVILLE 000 1989	137.000	LOUISVILLE 1000 1989	136.739	1000.0257	1000.0258	.3
LOUISVILLE 150 1989	137.105	LOUISVILLE 430 1989	137.570	279.9937	279.9941	.1
LOUISVILLE 150 1989	137.105	LOUISVILLE 1000 1989	136.739	849.9980	849.9981	.2
LOUISVILLE 430 1989	137.570	LOUISVILLE 1000 1989	136.739	570.0044	570.0050	.1

## DESCRIPTION OF LOUISVILLE CALIBRATION BASE LINE

YEAR MEASURED: 1989  
 YEAR REMEASURED: 1992, 2001  
 LATITUDE: 38 08 51 NORTH  
 LONGITUDE: 85 54 02 WEST  
 AZIMUTH: 5 DEGREES TRUE NORTH  
 CHIEF OF PARTY: RM

THE BASE LINE IS LOCATED ABOUT 17.7 KM (11.0 MI) SOUTHWEST OF LOUISVILLE, 8.9 KM (5.5MI) SOUTHWEST OF SHIVELY, AND 4.8 KM (3.0 MI) WEST OF PLEASURE RIDGE PARK. THE BASE LINE RUNS ALONG AND IS APPROXIMATELY PARALLEL WITH THE WEST TOE OF THE FLOOD WALL (LEVEE) FOR THE OHIO RIVER.

THE BASE LINE IS A NORTH-SOUTH LINE WITH THE 0-METER POINT ON THE SOUTH END. IT CONSISTS OF THE 0, 150, 430, AND 1000 METER POINTS WITH A 100-FOOT TAPE CALIBRATION STATION LOCATED ON LINE AND NORTH OF THE 0-METER POINT.

TO REACH THE 0-METER POINT FROM THE JUNCTION OF INTERSTATE HIGHWAY 264 (EXIT 8) AND U.S. HIGHWAY 60-31W (DIXIE HIGHWAY), LOCATED IN SHIVELY, GO SOUTH ON U.S. HIGHWAY 60-31W FOR 5.3 KM (3.3 MI) TO THE INTERSECTION OF GREENWOOD ROAD (STATE HIGHWAY 1931). TURN RIGHT AND GO WEST ON GREENWOOD ROAD FOR 5.0 KM (3.1 MI) TO THE INTERSECTION OF CANE RUN ROAD (STATE HIGHWAY 1934). CONTINUE WEST ON GREENWOOD ROAD FOR 0.6 KM (0.35 MI) TO THE PARKING AREA FOR A CITY PARK ON THE RIGHT. TURN RIGHT INTO THE PARKING AREA AND GO NORTH FOR 0.08 KM (0.05 MI) TO THE NORTH END OF THE PARKING AREA AND A LOCKED CHAIN GATE. PASS THROUGH THE GATE, BEAR TO THE EXTREME RIGHT, AND GO EASTERLY FOR 0.2 KM (0.1 MI) TO THE 0-METER POINT LOCATED NEAR THE WEST TOE OF THE FLOOD WALL (LEVEE) AND NORTH TOE OF GREENWOOD ROAD EMBANKMENT. THE 150-METER POINT IS 0.15 KM (0.09 MI) NORTH OF THE 0-METER POINT. TO REACH THE 430 AND 1000-METER POINTS FROM THE INTERSECTION OF GREENWOOD ROAD (STATE HIGHWAY 1931) AND CANE RUN ROAD (STATE HIGHWAY 1230), GO NORTH ON CANE RUN ROAD FOR 1.9 KM (1.2 MI) TO THE INTERSECTION OF THE PORT ROAD ON THE LEFT. TURN LEFT AND GO WEST ON THE PORT ROAD FOR 0.5 KM (0.3 MI) THROUGH A LOCKED GATE TO A GRAVEL ROAD ON THE LEFT JUST AFTER A FLOODGATE. TURN LEFT AND GO SOUTH ON THE GRAVEL ROAD FOR 0.7 KM (0.45 MI) TO A CURVE RIGHT AND A DIRT DRIVEWAY TO THE LEFT. TURN LEFT ONTO THE DIRT DRIVEWAY, THEN BEAR SLIGHTLY TO THE RIGHT, AND GO SOUTH FOR 0.2 KM (0.1 MI) PASSING UNDER AN ELEVATED CONVEYOR SYSTEM TO THE 1000-METER POINT. THE 430-METER POINT IS 0.57 KM (0.35 MI) SOUTH OF THE 1000-METER POINT.

THE 0-METER POINT IS A STANDARD NGS CALIBRATION BASE LINE DISK STAMPED "LOUISVILLE 000 1989" SET IN THE TOP OF A 30 CM (12 IN) DIAMETER CONCRETE POST RECESSED 2.5 CM (1 IN) BELOW THE SURFACE OF THE GROUND. IT IS 81.8 M (268.4 FT) EAST OF THE EAST EDGE OF A PARKING AREA, 36.3 M (119.1 FT) WEST OF THE CENTERLINE OF THE TOP OF THE FLOOD WALL (LEVEE), 17.6 M (57.7 FT) NORTH OF A METAL GUARD RAIL, AND 1.0 M (3.3 FT) WEST OF A FIBERGLASS WITNESS POST.

THE 150-METER POINT IS A STANDARD NGS CALIBRATION BASE LINE DISK STAMPED "LOUISVILLE 150 1989" SET IN THE TOP OF A 30 CM (12 IN) DIAMETER CONCRETE POST RECESSED 10 CM (4 IN) BELOW THE SURFACE OF THE GROUND. IT IS 49.2 M (161.4 FT) SOUTH-SOUTHWEST OF THE SOUTHWEST CORNER OF A CONCRETE PUMP STATION, 29.2 M (95.8 FT) WEST OF THE CENTERLINE OF THE TOP OF THE FLOOD WALL (LEVEE), 4.6 M (15.1 FT) NORTHWEST OF A REFERENCE MARK, AND 1.0 M (3.3 FT) WEST OF A FIBERGLASS WITNESS POST.

THE 430-METER POINT IS A STANDARD NGS CALIBRATION BASE LINE DISK STAMPED "LOUISVILLE 430 1989" SET IN THE TOP OF A 30 CM (12 IN) DIAMETER CONCRETE POST FLUSH WITH THE SURFACE OF THE GROUND. IT IS 3.0 M (9.8 FT) WEST OF THE WEST TOE OF THE FLOOD WALL (LEVEE), 2.7 M (8.9 FT) WEST OF A REFERENCE MARK, AND 1.0 M (3.3 FT) EAST OF A FIBERGLASS WITNESS POST.

THE 1000-METER POINT IS A STANDARD NGS CALIBRATION BASE LINE DISK STAMPED "LOUISVILLE 1000 1989" SET IN THE TOP OF A 30 CM (12 IN) DIAMETER CONCRETE POST RECESSED 7 CM (3 IN) BELOW THE SURFACE OF THE GROUND. IT IS 69.0 M (226.4 FT) SOUTH OF THE CENTERLINE OF AN ELEVATED CONVEYOR SYSTEM, 18.0 M (59.1 FT) WEST OF THE WEST TOE OF THE FLOOD WALL (LEVEE), 11.7 M (38.4 FT) SOUTH OF A REFERENCE MARK, AND 1.0 M (3.3 FT) EAST OF A FIBERGLASS WITNESS POST.

THE 100-FOOT TAPE CALIBRATION STATION IS A STANDARD ALUMINUM LOUISVILLE METROPOLITAN SEWER DISTRICT DISK 10 CM (4 IN) IN DIAMETER WITH NO STAMPING SET IN THE TOP OF A 30 CM (12 IN) DIAMETER CONCRETE POST FLUSH WITH THE SURFACE OF THE GROUND. THE 100-FOOT TAPE CALIBRATION PUNCH MARK IS APPROXIMATELY 1.1 CM (0.43 IN) SOUTH OF THE "X" ON THE CENTER OF THE DISK. IT IS 48.1 M (157.8 FT) NORTH OF A METAL GUARD RAIL, 36.3 (119.1 FT) WEST OF THE CENTERLINE OF THE TOP OF THE FLOOD WALL (LEVEE), AND 1.0 M (3.3 FT) WEST OF A FIBERGLASS WITNESS POST. THE 100-FOOT TAPE STATION WAS REMEASURED BY EDM1 METHOD AND FOUND TO BE 30.479 M (100.00 FT) FROM THE 0-METER POINT (MARK TO MARK DISTANCE).

USER NOTES: CBL USERS SHOULD TAKE CARE IN PLUMBING OVER ALL POINTS. ELEVATIONS ARE FOR CBL USE ONLY. DRIVING ON THE SIDEWALLS OR TOP OF THE FLOOD WALL IS STRICTLY PROHIBITED. THE LOCAL POINT OF CONTACT CAN PROVIDE A KEY FOR ACCESS TO THE BASE LINE.

THIS CALIBRATION BASE LINE WAS ESTABLISHED IN CONJUNCTION WITH THE FALLS OF THE OHIO CHAPTER OF THE KENTUCKY ASSOCIATION OF PROFESSIONAL SURVEYORS AND THE JEFFERSON COUNTY METROPOLITAN SEWER DISTRICT. FOR MORE INFORMATION PLEASE CONTACT MR. KEVIN BRIGHT, METROPOLITAN SEWER DISTRICT, MAINTENANCE DIVISION, 151 CABEL STREET, LOUISVILLE, KY 40206, TELEPHONE 502-540-6837 OR CONTACT MR. VIC MCCAULEY, TELEPHONE 812-282-4183, EMAIL: VICMAC@EPOWERC.NET.