

THIRD-ORDER LEVELING
NATIONAL GEODETIC VERTICAL DATUM OF 1929

38-082-31
CEREDO QUADRANGLE
177 KY.-57 W.VA. -2 OHIO
#3815-#8230/15
DIAGRAM NJ 17-4
HUNTINGTON

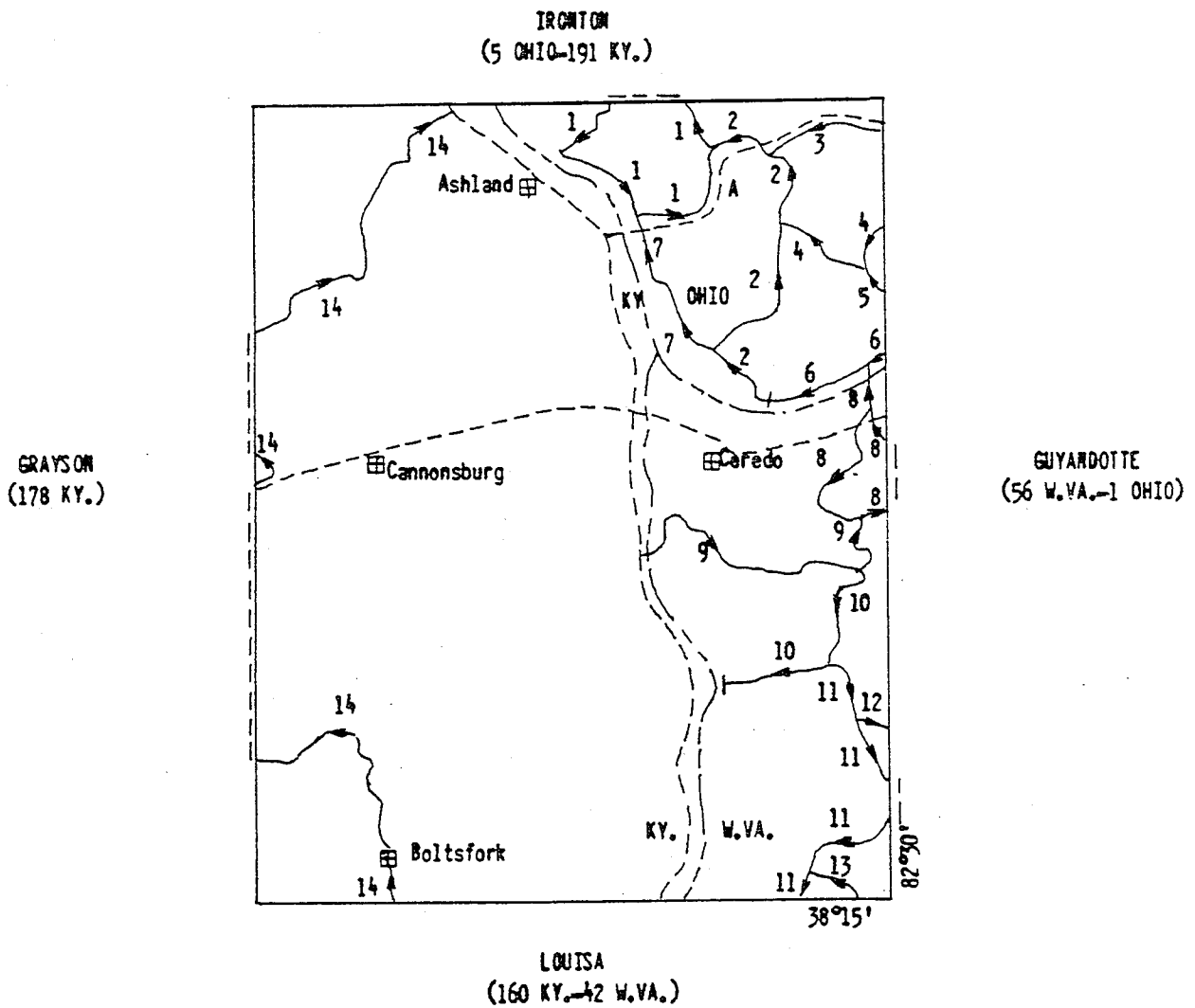
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Boyd, Greenup, and Lawrence Counties, Ky.;
Wayne and Cabell Counties, W.VA.; Lawrence
County, Ohio

Final adjustment of 1973

Edition of 1/3/77

PR: LFB/mjh



A. Quadrangle 380823

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Feet

ISOLATED BENCH MARKS (By W. W. Merrill, 1900-01; Books 8086, 8664)

Savage Branch, 1.0 mi S. of station; at two-story brick residence of Lawrence Bowling; on W. side of rd.; about 120 ft from centerline of rd.; in foundation on left side of porch; standard tablet stamped "586 K" (partly covered by porch)	586.517
Boltsfork; 600 ft N. of post office; at hwy. bridge over Bolts Fork; in SE. corner bridge seat; standard tablet stamped "652 K" (Reported not found, 1953)	652.875
Cannonsburg; 93 ft from RR. crossing; in SE. corner of post office building; standard tablet stamped "604 K"	605.259
Hoads; 1.0 mi NE. of station; 81 ft N. of small bridge; 15 ft E. of centerline of rd.; in sandstone boulder; standard tablet stamped "638 K" (Reported not found, 1953)	638.600
Ashland; at intersection of Chesapeake and Ohio Railroad and Twelfth Street W. of station; at valuation station No. 4853+06; 14 ft N. of centerline of westbound main-line track; 4 ft W. of W. curb of Twelfth Street; in concrete pavement; standard tablet stamped "556 K RESET 1961"	557.336
Catlettsburg; on Louisa Street between Franklin and Clay Streets; in courthouse yard; in NW. corner of clerk's office; 1 ft above water table; standard tablet stamped "549 K 1900" (Reported not found, 1953)	550.824
Kenoza; at Union Station; in W. side of doorsill of men's entrance to waiting room; standard tablet stamped "567 K" (Reported destroyed, 1956)	567.481
Buffalo Creek; at station; 7 ft from track; in SW. abutment of bridge over Buffalo Creek; standard tablet stamped "565 GRAFTON" (Reported not found, 1956)	564.476

LINE 1.

By J. J. Spahr, 1956; Book AV 480

Sheridan; 2.4 mi SE. of NE. end of Ohio River bridge at Ashland; about 500 ft NW. of first grade crossing S. of mouth of Lick Creek; on Norfolk & Western Railroad property adjacent to property of Charles Hoffman; 34 ft SW. of centerline of eastbound track; 32 ft NW. of power pole; at lower end of small orchard; 18 ft from river bank; in concrete pedestal; on 2-in. galvanized pipe; standard copper bolt designated "BM 520" (USED)	549.680
U. E., Sheridan, 1.1 mi E. of; 15 ft SW. of centerline of junction of Y-rd. S.; in root on NE. side of 36-in. tree; copper nail and washer	557.68
Sheridan, 2.4 mi E. of junction of Lick Creek Road and U. S. Highway 52; 21 ft S. of centerline of junction of Y-rd. N. to Dearing; 2 ft S. of fence line; 4 ft SE. of corner fencepost; 32 ft E. of 24-in. walnut tree in center of junction of private drive S.; 14 ft WSW. of 24-in. walnut tree; in concrete post; standard tablet stamped "60 JJS 1956 601" (Tied by NGS, 1958)	601.131
U. E., Ryansville, 1.1 mi W. of, thence 0.8 mi S.; on center of SE. concrete wingwall of culvert in front of large white frame house; chiseled square	637.29

LINE 1 (Cont'd.)Feet

- Coal Grove, 6.0 mi E. of intersection of U. S. Highway 52 and State Highway 243, along Highway 243; 1.7 mi SE. of Dawson Bryant Elementary School; 0.9 mi SE. of Ice Creek Baptist Church; 1.1 mi W. of Ryansville; in frontyard of residence of Lawrence Porter (red brick house on N. side of hwy.); 31 ft S. of SW. corner of house; 25 ft W. of W. edge of sidewalk to front door; 15 ft E. of centerline of drive W.; 2 ft E. of small bush; in concrete post 0.2 ft under surface of ground; standard tablet stamped "61 JJS 1956 RESET 1967 656"
- Reference mark; about 160 ft SE. of tablet; on N. corner of concrete bridge over creek; chiseled square
- U. E., Bearing, 0.6 mi SE. of; 50 ft NNE. of, and 0.5 ft higher than centerline of junction of I-rd. NE.; in root on SW. side of multiple trunk tree; copper nail and washer
- [Jags into Ironton quadrangle]
- U. E., Forestdale, 0.4 mi NE. of; 60 ft E. of centerline of junction of I-rd. with drive W.; on E. end of N. concrete headwall of culvert; chiseled square
- Forestdale, 0.6 mi S. of, along Little Ice Creek rd.; near center of sec. 1, T. 1, R. 18; 42 ft NW. of centerline of junction of Y-rd. at powerline crossing; 6 ft S. of westernmost power pole; 16 ft E. of creek bank; in concrete post; standard tablet stamped "63 JJS 1956 579"
- Reference mark; 35 ft NE. of tablet; in base on E. side of power pole; spike nail
- Ashland, about 0.6 mi SE. of NE. end of Ohio River highway bridge; at SE. end of small roadside park; 34 ft from river edge of U. S. Highway 52; 25 ft hillward from 12-in. walnut tree; in concrete post; USED standard triangulation station disk stamped "GYP" (Reported destroyed, 1968)
- U. E., Sheridan, 0.4 mi NE. of; in top of end of RR. tie nearest milepost; No. 574; copper nail and washer
- "BM 520" (USED) (Described previously in this line)

LINE 2.

By J. J. Spahr, 1956; Book AV 480

- Burlington, about 1.2 mi W. of; on N. bank of Ohio River; opposite U. S. Light No. 373; on property of John Andrim; 50 ft above upper river corner of residence; 22 ft NE. of spike in triangular blazed 39-in. maple tree; about 350 ft from low river bank; in concrete pedestal; on 2-in. galvanized iron pipe; USED standard copper bolt designated "OR 510" (Reported disturbed, 1956 - cap broken off pipe)
- Reference mark; 35 ft N. of bolt; on NE. corner of E. end of concrete walk to house; chiseled square
- U. E., Burlington, 1.1 mi W. of, thence 0.6 mi NW.; at top of hill; in root on N. side of 15-in. maple tree, on fenceline of old rd.; copper nail and washer

LINE 2 (Cont'd.)Feet

U. E., Burlington, 1.1 mi W. of, thence 1.0 mi NW.; at junction of Y-rd.; at N. corner of bridge over creek; in top of timber pile; copper nail and washer	593.62
South Point, 1.3 mi E. of main traffic signal, along Salliday Creek rd.; in SW. quarter of sec. 33, T. 2, R. 17; 9 ft N. of edge of paved rd.; 38 ft SW. of telephone pole on bank; 50 ft ENE. of centerline of junction of Y-rd.; at SE. corner of cultivated field; in concrete post; standard tablet stamped "64 JJS 1956 576"	576.032
U. E., South Point, 1.3 mi E. of, thence 1.0 mi NE.; 30 ft SW. of centerline of junction of I-rd. N.; on SE. corner of concrete bridge over creek; chiseled square	588.58
South Point, 1.3 mi E. of, thence 2.0 mi NE.; 0.4 mi NE. of Solida Church; 120 ft S. of junction of I-rd. E.; 185 ft SW. of SW. corner of large brick store building (McKee property, former Montreal Post Office); 33 ft SE. of centerline of paved rd.; on high creek bank; in concrete post; standard tablet stamped "65 JJS 1956 623"	622.824
Reference mark; 114 ft NE. of tablet; in root on W. side of 36-in. sycamore tree; copper nail and washer	616.46
U. E., Ryansville, 2.5 mi S. of, thence 0.8 mi SW.; 155 ft S. of centerline of junction of Y-rd. NE.; on SE. corner of bridge over Salliday Creek; chiseled square	666.32
Ryansville, 2.5 mi S. of; 0.3 mi ENE. of Lynd Store; 66 ft N. of centerline of junction of old I-rd. NW.; near E. center sec. 22, T. 2, R. 17; 28 ft N. of NW. gatepost; 18 ft S. of 24-in. hickory tree; 11 ft E. of centerline of old rd.; in concrete post; standard tablet stamped "66 JJS 1956 646"	645.994
Reference mark; 112 ft SW. of tablet; on N. concrete wingwall of bridge over Buffalo Creek; chiseled square	641.83
U. E., Ryansville, 1.7 mi S. of; on NE. corner of concrete bridge over Buffalo Creek; chiseled square	693.47
Ryansville, 0.5 mi S. of; at head of Rankin and Buffalo Creeks; near center sec. 10, T. 2, R. 17; 23 ft NE. of centerline of paved rd.; 18 ft SW. of W. corner of Sunrise Church; 6 ft N. of W. corner of first step to church; 4 ft W. of shrub; in concrete post; standard tablet stamped "67 JJS 1956 924"	923.658
Reference mark; 92 ft SE. of tablet; on end of concrete walk; chiseled square	921.85
"61 JJS 1956 RESET 1967 656" (Described in line 1)	656.115

LINE 3.

By J. J. Spahr, 1956; Book AV 480

U. E., Ryansville, 2.1 mi E. of; at junction of Y-rd. NW.; on NE. corner of concrete bridge over creek; chiseled square	598.37
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LINE 3 (Cont'd.)Feet

Getaway, about 3.9 mi NW. along State Highway 243 from Methodist Church, in sec. 3, T 1N, R 17 W., about 1.1 mi W. of 20-foot bridge and side road NW., at junction of drive N. to two-story white house; 25.5 ft N. of centerline of rd.; 32 ft E. of centerline of drive; 2.5 ft NW. of telephone pole; 17 ft SE. of SE. corner of garage, about 4 ft above level of hwy.; in concrete post projecting 2 in.; standard tablet stamped "TT 1 RCD 1955 674" (Tied by MGS, 1958)

673.522

LINE 4.

By J. J. Spahr, 1956; Book AV 480

Chesapeake, 2.1 mi W. of, along U.S. Highway 52, thence 2.0 mi N. along Buffalo Creek rd.; at Buffalo Creek School and junction of Little Buffalo Creek Road; 34 ft N. and 58 ft W. of junction; 100 ft NW. of NW. end of bridge; 3 ft N. of yard fence corner; 55 ft S. of rd. fork W.; about 5 ft higher than junction of rd. N.; in concrete post; standard tablet stamped "TT 4 6BG 1955 574"

574.057

Reference mark; 95 ft E. of tablet; on NE. end of N. wingwall of concrete bridge; chiseled square

566.92

U. E., Ryansville, 2.5 mi S. of, thence 0.7 mi SE.; 40 ft ENE. of centerline of junction of private Y-drive NE.; in base on SW. side of power pole; spike nail

623.96

"66 JJS 1956 646" (Described in line 2)

645.994

LINE 5.

By J. J. Spahr, 1956; Book AV 480

"TT 4 6BG 1955 574" (Described in line 4)

574.057

LINE 6.

By J. J. Spahr, 1956; Book 480

U. E., Chesapeake, about 3.0 mi W. of, along U. S. Highway 52; about 0.3 mi S. of post office at Sybena; on N. bank of Ohio River; at SE. corner of lockhouse of U. S. Lock No. 28; at N. edge of walk along S. face of building; on top of SE. corner of 16- by 16-in. concrete flagpole base; chiseled square designated "566.34" (USED) (Tied by MGS, 1958)

565.832

Chesapeake, about 3.0 mi W. of post office, along U. S. Highway 52; at Lock No. 28 on N. bank of Ohio River; 7 ft S. of S. face of lockhouse; 1 ft S. of N. edge of walk; 6 ft E. of center of front steps; in walk at S. face of lockhouse; USED standard brass plug designated "566.31" (Tied by MGS, 1958)

565.773

Burlington; 110 ft N. of centerline of Washington Avenue; 97 ft NW. of NW. corner of city building; 55 ft SSE. of centerline of alley; 30 ft SW. of SW. side of village water tank (standpipe); 4 ft E. of fence line; in concrete post; standard tablet stamped "68 JJS 1956 565"

564.916

Reference mark; 44 ft S. of tablet; in root on NE. side of 48-in. maple tree; copper nail and washer

565.06

"OR 510" (USED) (Described in line 2)

556.700

LINE 7.

Feet

By J. J. Spahr, 1956; Book AV 480

- "64 JJS 1956 576" (Described in line 2) 576.032
- U. E., South Point, 1.3 mi E. of, thence 0.9 mi NW.; 9 ft NE. of centerline of rd.; on NW. corner of concrete walk to green shingled house; chiseled square 575.06
- South Point, 2.1 mi N. of N. & W. RR. crossing, along U. S. Highway 52 to junction of I-rd. E., thence 0.3 mi E.; 30 ft NE. of junction of I-rd. S.; 2 ft W. of 6- by 4-ft concrete block pump building; in concrete post; standard tablet stamped "69 JJS 1956 RESET 1958" (Not found, 1968) 574.818
- "BM 520" (USED) (Described in line 1) 549.680

LINE 8.

By J. J. Spahr, 1956; Book AV 480

- "566.34" (USED) (Tied by MGS, 1958) (Described in line 6) 565.832
- Huntington, 2.9 mi W. of corner of Fourth Avenue and Sixth Street, along U. S. Highway 60, thence 0.2 mi NW. on W. 28th Street to river levee; at pump station at mouth of Fourpole Creek; 67 ft NE. of NE. corner of pump building; 14 ft S. of SE. corner of concrete platform; on top of levee; 3 ft NE. of corner post of guardrail; in concrete post; standard tablet stamped "TT 6 GBG 1955 562" 562.101
- Reference mark; 64 ft W. of tablet; on floor level of pump station; on NE. corner of N. side of E. equipment door; chiseled square 565.93
- U. E., Huntington, 3.4 mi W. of intersection of Fourth Avenue and Sixth Street; 10 ft W. of NW. corner of curb of Auburn Road and 31st Street W.; chiseled cross designated "OH 549" (USED elevation not held) 549.02
- Ceredo, about 2.2 mi E. of, along U. S. Highway 60 and Spring Valley rd.; 4.3 mi W. of corner of Fourth Avenue and Sixth Street in Huntington along Highway 60 and Spring Valley rd.; at junction of rds. at S. end of viaduct over C. & O. RR.; about 100 ft SW. of small concrete block shed; 64 ft SE. of SE. corner of sidewalk at S. end of viaduct; 32 ft S. and 34 ft E. of junction of I-rd.; 28 ft S. of, and about level with centerline of rd. opposite; 26 ft E. of rd. sign; 51 ft W. of vertical 3-in. pipe in gas line; in concrete post; standard tablet stamped "TT 7 GBG 1955 578" (Reported not found, 1968) 577.588
- Reference mark; 77 ft NW. of tablet; on NW. corner of W. end of SW. wingwall of concrete overpass bridge; chiseled square 576.697
- U. E., Ceredo, 2.2 mi E. of, thence 1.2 mi S.; at top of hill; 72 ft SW. of, and 3 ft higher than centerline of junction of Y-rd. S. to Veteran's Administration Hospital; on top of stone wall; chiseled square 655.559

LINE 8 (Cont'd.)Feet

Spring Valley Store, 1.5 mi W. of, along paved rd.; 3.1 mi NE. of junction of paved rd. with State Highway 75; 1.0 mi W. of entrance to V.A. Hospital; at rd. junction on curve in front of residence of Lloyd Ward; 42 ft S. and 36 ft W. of centerline of main rd. and rd. tangent W.; 19 ft S. and 34 ft E. of graveled I-rd. N.; 27 ft W. of, and about 3 ft higher than centerline of main rd. opposite; 10 ft W. of fence corner; 2 ft E. of stone retaining wall; in concrete post; standard tablet stamped "TI 8 GBG 1955 568" (Reported destroyed, 1957)

567.872

Reference mark; 9 ft SW. of tablet; on SE. corner of stone retaining wall; chiseled square

568.88

Spring Valley Store, 2.9 mi SW. of; 1.8 mi N. of junction of State Highway 75 and Spring Valley rd.; 2.4 mi S. of entrance to V.A. Hospital; at entrance gate to Camp Mad Anthony Wayne; 2 ft NW. of large rock in row at entrance gate; 46 ft SW. of pole No. 486-46; 37 ft due E. of entrance to camp; in concrete post flush with lawn; standard tablet stamped "TI 9 GBG 1955 581"

580.864

Jogs on into Guyandotte quadrangle

"TI 6 GBG 1955 562" (Described previously in this line)

562.101

Chesapeake; about 3.0 mi W. of post office, along U. S. Highway 52; at U. S. Lock 28; on N. bank of Ohio River; about 300 ft SE. of lock house; 11 ft SE. of slope of riprap; at N. corner of iron plates at NE. corner of locks; in top of end of concrete driveway from top of back to lock; standard gaging station tablet stamped "GAGING REFERENCE MARK" (Tied by NGS, 1958)

513.260

"566.31 (USED) (Tied by NGS, 1958) (Described in line 6)

565.773

LINE 9.

By J. J. Spahr, 1956; Book AV 480

Catlettsburg, 4.7 mi S. of; on left bank about 4.7 mi above mouth of Big Sandy River; about 0.3 mi upstream from Campbell Run; about 770 ft downstream from milepost No. BSJ-4; 18 ft E. of centerline of C. & O. Ry. riverward track; 28 ft W. of 24-in. elm tree; 45 ft N. of telephone pole; on iron pipe in concrete post; standard USED cap designated "B 3 A" (USED elevation not held)

553.340

"84 1935" (NGS) (Not found, 1972)

553.496

U. E., Neal; 90 ft S. of junction of I-rd. W.; on center of E. headwall of concrete culvert; chiseled square

581.55

Kanova, 2.3 mi S. of bridge over Big Sandy River, along Big Sandy River rd.; 1.0 mi N. of Neal; 87 ft NE. of centerline of junction of Miller Creek Road E.; 33 ft E. of centerline of river rd.; 10 ft N. of N. gatepost; at SW. corner of yard in front of house No. 1902; 2 ft W. of corner fence post; in concrete post; standard tablet stamped "96 JJS 1956 560" (Not found, 1972)

560.436

LINE 9 (Cont'd.)Feet

Reference mark; 100 ft S. of tablet; on corner of L-shaped culvert; chiseled square	559.39
U. E., Buffalo Creek, 4.4 mi W. of RR. bridge; on NW. end of NE. concrete guardrail of culvert; chiseled square	574.14
Buffalo Creek; 3.4 mi W. of bridge over Twelvepole Creek, along State Highway 75; 3.5 mi S. of junction of U.S. highway 60 and Highway 75 at Kenova; 35 ft SSW. of centerline of junction of I-rd. SW. to Hill Crest Cemetery; 14 ft SSE. of centerline of graveled rd., 10 ft W. of gas meter; 2 ft SSE. of ground end of guy wire; in concrete post; standard tablet stamped "97 JJS 1956 629" (Reported Destroyed, 1979)	628.703
Reference mark; 11 ft NNE. of tablet; in base on S. side of powerline pole; spike nail	627.97
U. E., Buffalo Creek; 2.4 mi W. of RR. bridge; at outside of sharp curve in hwy.; 20 ft S. of centerline of hwy.; on rock outcrop at stone walk to house S.; chiseled square	646.91
Buffalo Creek, 0.9 mi W. of bridge over Twelvepole Creek, along State Highway 75; 32 ft N. of centerline of Highway 75; 38 ft NE. of junction of I-rd. N.; 11 ft N. of concrete rd. sign; 3 ft S. of hwy. marker; in concrete post; standard tablet stamped "98 JJS 1956 651" (Not found, 1972)	651.496
U. E., Buffalo Creek; on W. end of S. abutment of N. & W. RR. bridge; chiseled circle with cross in center	564.42
Buffalo Creek; at village; 1.7 mi S. of Camp Mad Anthony Wayne; at center of grassy triangle formed by junction of State Highway 75 and Twelvepole Creek rd. to Ceredo; 4 ft NE. of, and in line with hwy. marker and rd. signpost; in concrete post; standard tablet stamped "99 JJS 1956 567"	566.879
Reference mark; 9 ft SW. of tablet; on rock outcrop; chiseled square	565.22
"TT 9 626 1955 581" (Described in line 8)	580.869

LINE 10.

By J. J. Spahr, 1956; Book AV 480

U. E., Buffalo Creek; chiseled circle with cross in center (Described in line 9)	564.42
U. E., Buffalo Creek, 0.7 mi S. of high school; 10 ft W. of centerline of junction of Y-rd. with field entrance rd. SW.; on large rock in centerline of field rd.; chiseled square	576.65
Buffalo Creek, 2.2 mi S. of high school, along Buffalo Creek Road; 3.2 mi ENE. of mouth of Cedar Run on Big Sandy River, along Buffalo Creek Road; 2.0 mi S. of Malcolm Lane; at junction of Y-rd. (Cedar Run and Buffalo Creek Roads); 31 ft W. of, and 5 ft lower than centerline of rd.; 27 ft E. of Buffalo Creek Church; in top of N. end of 9th concrete step below rd. level; standard tablet stamped "100 JJS 1956 RESET 1965 609"	609.371

LINE 10 (Cont'd.)Feet

Reference mark; about 22 ft S. of tablet; on SW. corner of first concrete step to church; chiseled cross	605.77
U. E., Buffalo Valley Church, 1.0 mi W. of; about 200 ft W. of branch crossing R.; 8 ft N. of centerline of rd.; in base on SW. side of 36-in. elm tree; spike nail	625.70
Buffalo Valley Church, 1.5 mi W. of; 1.7 mi NE. of mouth of Cedar Run on Big Sandy River, along Cedar Run rd.; on dividing ridge between Big Sandy River and Buffalo Creek; 41 ft NNE. of N. corner of log cabin; 14 ft SSE. of centerline of rd.; about 57 ft E. of top of hill; 1 ft N. of fence post; in concrete post; standard tablet stamped "101 JJS 1956 790" (Reported destroyed, 1972)	790.347
Reference mark; 100 ft SW. of tablet; in base on NW. side of power pole; spike nail	788.25
U. E., Buffalo Valley Church, 3.2 mi W. of; on S. end of E. concrete guardrail of hwy. bridge over Cedar Run; chiseled square	552.46
Buffalo Valley Church, 4.3 mi W. of; on left bank about 7.4 mi above mouth of Big Sandy River; 19 ft E. of centerline of C & O. Ry. riverward track; about 0.2 mi upstream from Lockwood Creek; about 310 ft downstream from 24-in. culvert under hwy. and RR.; 6 ft upstream from telephone pole; on iron pipe set in concrete post; standard USED cap designated "B 4 B" (USED elevation not held)	559.554

LINE 11.

By J. J. Spahr, 1956; Book AV 480

"100 JJS 1956 RESEI 1965 609" (Described in line 10)	609.371
U. E., Buffalo Valley Church, 0.6 mi SE. of; centerline of junction of I-drive NE.	597.74
U. E., Buffalo Valley Church, 1.1 mi SE. of; 12 ft from centerline of rd.; on N. end of W. headwall of a stone culvert; chiseled square	607.25
Buffalo Valley Church, 1.3 mi SE. of; 1.7 mi NE. of Rice on Whites Creek; 85 ft S. of centerline of junction of Y-rd. SE.; 16 ft SW. of centerline of rd.; 4 ft E. of powerline pole; in concrete post; standard tablet stamped "102 JJS 1956 610"	609.919
Reference mark; 82 ft NW. of tablet; on SW. end of NW. stone headwall of culvert; chiseled square	604.62
U. E., Buffalo Valley Church, 2.3 mi SE. of; on N. end of E. stone headwall of culvert over branch from E.; chiseled square	649.22
Buffalo Valley Church, 3.1 mi SE. of; 1.1 mi NNW. of junction of rds. on ridge at head of Buffalo and Lynn Creeks; 38 ft S. of centerline of junction of I-rd. SW.; 19 ft SW. of centerline of Buffalo Creek rd.; 10 ft SW. of mailbox of B. Ward; 3 ft SW. of 12-in. locust tree; 3 ft NE. of creek bank; in concrete post; standard tablet stamped "103 JJS 1956 682"	682.018
Reference mark; 39 ft W. of tablet; on W. stone wingwall of bridge over Buffalo Creek; chiseled square	681.62

[Jogs into Guyandotta quadrangle]

LINE 11 (Cont'd.)Feet

Centerville, 0.5 mi N. of, thence 1.2 mi E. to foot of hill; 1.1 mi SW. of junction of rds. on ridge at head of Buffalo and Lynn Creeks; 21 ft SSE. of centerline of main rd.; 39 ft ESE. of centerline of junction of Y-drive SE.; in concrete post; standard tablet stamped "104 JJS 1956 670"	669.943
Reference mark; 14 ft W. of tablet; on corner of L-shaped stone culvert; chiseled square	668.26
U. E., Centerville, 0.5 mi N. of; 60 ft SE. of centerline of junction of Y-rd. with Whites Creek Road; on S. end of concrete headwall of culvert; chiseled square	589.61
Centerville; on Whites Creek; 5.0 mi SE. of mouth of Whites Creek; 70 ft SSE. of centerline of junction of I-rd. SSW.; 30 ft E. of NE. corner of Marshall's Store; 10 ft SW. of corner fencepost; 1 ft NW. of fence line; in concrete post; standard tablet stamped "105 JJS 1956 596"	595.762
Reference mark; 39 ft NW. of tablet; on SE. corner of concrete base of gasoline pumps; chiseled square	595.05

LINE 12.

By J. J. Spahr, 1956; Book AV 480

"102 JJS 1956 610" (Described in line 11)	609.919
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LINE 13.

By J. J. Spahr, 1956; Book AV 480 b

Centerville, 1.3 mi SE. of, along Whites Creek Road; 0.6 mi NW of school at mouth of Smith Branch; at E. corner of small bridge over branch NE.; in stone wingwall; standard tablet stamped "121 JJS 1956 620"	620.646
"105 JJS 1956 596" (Described in line 11)	595.762

LINE 14. (Not of Third-Order Accuracy)

By TVA, 1953

U.E., Boltsfork, about 0.09 mi S. of, along State Highway 3; 12 ft W. of, and level with centerline of hwy.; E. of group of farm buildings and near center of W. headwall of 3- by 8- ft concrete box culvert; on culvert headwall; chiseled cross	669.58
Boltsfork; 500 ft N. of State Highway 3 steel bridge over Bolts Fork; at NW. corner of lawn at residence of Drew Hogan; 71 ft S. of SW. corner of Drew Hogan Store; 50 ft ENE. of chiseled square on rock outcrop across rd.; 38 ft SW. of nail and bottle cap in power pole; 20 ft ENE. of I-rd. W.; in concrete post; standard tablet stamped "TVA TT 31 NY 1952"	669.66

LINE 14 (Cont'd.)Feet

- Reference mark; 50.5 ft SW. of tablet; on rock outcrop across hwy.; chiseled square 672.09
- U.E., Boltsfork, 1.15 mi N. of, on State Highway 3; 30 ft NW. of, and 1 ft lower than centerline of T-rd. W.; about 90 ft S. of centerline of T-rd. E.; 15 ft W. of centerline of hwy.; 1 ft N. of S. and of W. headwall of $\frac{1}{2}$ by $\frac{1}{2}$ -ft concrete box culvert; on culvert headwall; chiseled square 641.03
- Alley; 0.5 mi S. of East Fork Methodist Church, on State Highway 3; on property of Clem Bromfield; 50 ft SW. of and 1 ft lower than centerline of Highway 1, set between frame house with imitation brick siding and white barn; 51.5 ft NW. of nail and bottle cap in 12-in. oak tree; 40.5 ft SE. of E. corner of barn; 1.7 ft NE. of nail and bottle cap in power pole; in concrete base once used for gasoline pumps; standard cap stamped "TVA TT 32 NY 1952" 637.54
- Reference mark, 55.2 ft SE. of tablet, on top of concrete base once used for gasoline pumps; chiseled square 638.58
- U.E., 0.15 mi W. along Garner Road from R. B. Hogan's store at junction with State Highway 3, on Garner Road and on right-of-way; 25 ft E. of and 3 ft higher than crossroad; on NE. end of NW. abutment of steel truss bridge over Sandy River; chiseled square 636.91
- Alley, 1.3 mi W. along Garner Road from R. B. Hogan's store at junction of Garner Road and State Highway 3; 4 ft NW. of pasture fence; 22.5 ft NW. of and 2 ft higher than centerline of rd.; 0.5 mi NE. of T-rd. S.; 8.0 ft NE. of nail and bottle cap in 14-in. ash tree; 6.5 ft SW. of nail and bottle cap in 12-in. ash tree; 41 ft NW. of painted cross on large fence post; in concrete post; standard cap stamped "TVA TT 33 NY 1952" 642.94
- Reference mark, 82.6 ft NE. of tablet, on SW. end of NW. culvert headwall; chiseled square 642.28
- U.E., 2.2 mi W. along Garner Road from junction with State Highway 3 at R. B. Hogan's store; on Garner Road at Garner Creek Road; on property of Hampton McGlothen; 96 ft SW. of and level with centerline of T-rd. SW.; about middle of NW. curb of large concrete culvert; chiseled square 648.56
- [Jogs into Grayson quadrangle]
- Princess, at junction of U.S. Highway 60 and State Highway 5; on U.S. Highway 60 right-of-way; 84.5 ft SE. of and level with centerline of T-rd. NW.; 14.4 ft NE. of 30-in. elm; 64.0 ft NE. of centerline of T-rd. N.; 50 ft SW. of SE. end of culvert; in concrete post; standard tablet stamped "TVA TT 49 NY 1952" 613.47
- Reference mark; 43.8 ft NE. of tablet; on SW. end of SE. headwall of concrete box culvert; chiseled square 612.44
- [Jogs into Grayson quadrangle]

LINE 14 (Cont'd.)Feet

U.E., Princess, 4.4 mi N. along State Highway 5 from junction with U.S. Highway 60; on property of Jerry Mullins; 15 ft N. of and 2 ft lower than centerline of hwy.; on top of W. headwall of 18-in. pipe culvert; chiseled square	591.41
Princess, 4.85 mi N. along State Highway 5 from junction with U.S. Highway 60; on State Highway 5 right-of-way; 23 ft SE. of and 2 ft lower than centerline of rd.; 10 ft NW. of centerline of drain; 3.0 ft SW. of 9-in. black walnut tree (nail and bottle cap); 58 ft SE. and across hwy. from painted cross on rock; 55.2 ft NE. of centerline of I-rd. SE. (painted cross); in concrete post; standard cap stamped "60 NY 1952"	580.85
Reference mark; 36.5 ft SW. of tablet; on NE. end of NW. abutment of steel bridge of side road; chiseled square	583.12
U.E., Princess, 5.4 mi N. along State Highway 5 from junction with U.S. Highway 60; on State Highway 5 right-of-way; 13 ft SE. of and 1 ft lower than centerline of rd.; on top of SE. headwall of 18-in. pipe culvert; chiseled square	610.17
Princess, 5.9 mi N. along State Highway 5 from junction with U.S. Highway 60; on property of W. M. Miller; 34.6 ft SE. of and 2 ft lower than centerline of rd. at fence line SE.; 2 ft NE. of fence row; 15.4 ft SE. of nail and bottle cap in 24-in. pine oak tree; 13.2 ft SE. of nail and bottle cap in 18-in. white oak tree; in concrete post; standard cap stamped "61 NY 1952"	650.76
Reference mark; 14 ft NW. of tablet; in E. side of 18-in. white oak tree; railroad spike	652.33
U.E., 0.45 mi W. along State Highway 5 from junction of Summit road leading S. to Federal Prison, on State Highway 5 right-of-way; on W. end of N. headwall of 2.5-by 5-ft concrete box culvert; about 120 ft W. of transformer yard (substation); chiseled square	671.68
Summit, 200 ft NE. of junction of Summit Prison road with State Highway 5; on property of Dave Gillum; 23 ft from and 2 ft higher than centerline of rd.; 3.5 ft SE. of E. corner fencepost of Gillum's yard; 26 ft NW. of centerline of I-drive NW.; 49 ft NW. across hwy. from nail and bottle cap in fencepost; in concrete post; standard cap stamped "62 NY 1952"	614.57
Reference mark; 48.5 ft SE. of tablet; on wingwall of concrete culvert; chiseled square	612.22
U.E., 0.6 mi N. along State Highway 5 from junction of Summit road; on hwy. right-of-way; across hwy. from C. Howard's house; 23 ft SW. of centerline of rd. over drain; chiseled square	593.80
Little Mary Church, 0.07 mi N. of, on State Highway 5 right-of-way; at gravelled I-rd. SE.; 0.1 mi SE. of gravelled I-rd. NW.; 17.3 ft NW. of nail and bottle cap in 32-in. white oak tree; 65.5 ft NW. of nail and bottle cap in 18-in. white oak tree; 52 ft SE. of nail and bottle cap in 5-in. persimmon tree; in concrete post; standard cap stamped "63 NY 1952" (Not found, 1958)	579.54
Reference mark; 74.5 ft SW. of tablet; on W. end of culvert headwall; chiseled square	581.57

LINE 14 (Cont'd.)feet

- U.E., Ashland, 3.3 mi SW. along State Highway 5 from junction with U.S. Highway 23 NW.; on State Highway 5 right-of-way; at graveled T-rd. W.; on top of N. end of E. headwall of 15-in. pipe culvert; chiseled square 572.09
- Ashland, 2.8 mi SW. along State Highway 5 from junction with U.S. Highway 23 NW.; on property of Morris Connette; 38 ft SE. of centerline of rd. over drain and level; at N. corner of Connette's yard; 22.7 ft NE. of nail and bottle cap in power pole; 32.2 ft SW. of 14-in. cherry across drain; 25.5 ft NW. of 30-in. white oak tree; in concrete post; standard cap stamped "64 NY 1952" 573.15
- Reference mark; 28.8 ft N. of tablet on top of SE. headwall of 3-by 8-ft concrete box culvert; chiseled square 572.23
- U.E., Ashland, 2.2 mi SW. along State Highway 5 from junction with U.S. Highway 23 NW.; on State Highway 5 right-of-way; on SW. end of SE. headwall of 24-in. concrete pipe culvert; at T-rd. SE.; chiseled square 565.12
- Ashland, 1.3 mi SW. along State Highway 5 from junction with U.S. Highway 23 NW.; on property of Peoples Mehan; at junction of Y-rd. SE.; 96 ft SE. of centerline of Y-rd.; 4.5 ft NE. of power and telephone pole; 2.5 ft SE. of 6-in. locust tree; 4 ft SW. of 5-in. locust tree; in concrete post; standard cap stamped "65 NY 1952" *Pepl. dest. 11/91* 675.24
- Reference mark; 13 ft E. of tablet; in W. side of 6-by 8-in. twin locust tree; spike nail 677.60
- Ashland, 2.0 mi NW. of, along U.S. Highway 23; 300 ft NW. of intersection of Highway 23 and State Highway 5; 56 ft left of centerline of Highway 23; in top of retaining wall; 35 ft from NW. end; standard tablet stamped "TVA 66 NY 1952 RESET 1965" (Reported destroyed, 1968) 560.435
- Reference mark; 6.0 ft NE. of tablet; on headwall of pipe culvert; chiseled square 564.95

ENDANGERED BENCH MARK NOTIFICATION

BENCH MARK STAMPING 65 NY 1952
STATE KY QUAD CEREDO QUAD NO. 177 KY-57W VA-2 OH
NOTIFICATION RECEIVED (Date) 11/5/91
AUTHORIZATION AND SUPPLIES SENT FOR RESET (Date) _____
AGENCY/PERSON DOING RESET:
NAME GEORGE LOVELACE
AGENCY _____
ADDRESS 801 BELFORT
ASHLAND KENTUCKY 41101
PHONE: (606)-325-4774
FTS _____

DESTROYED

REMARKS:

REPORT PREPARED BY John Walker
DATE 11/5/91

Place original in Quad Folder and a copy (with correspondence) in Suspense File. When reset is accomplished and notes typed and in Control List, discard notification form and copy.

HORIZONTAL CONTROL
NORTH AMERICAN DATUM OF 1927

38-082-31
CEREDO QUADRANGLE
177 KY.-57 W.VA.-2 OHIO
N3815-W8230/15
DIAGRAM NJ 17-4
HUNTINGTON

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

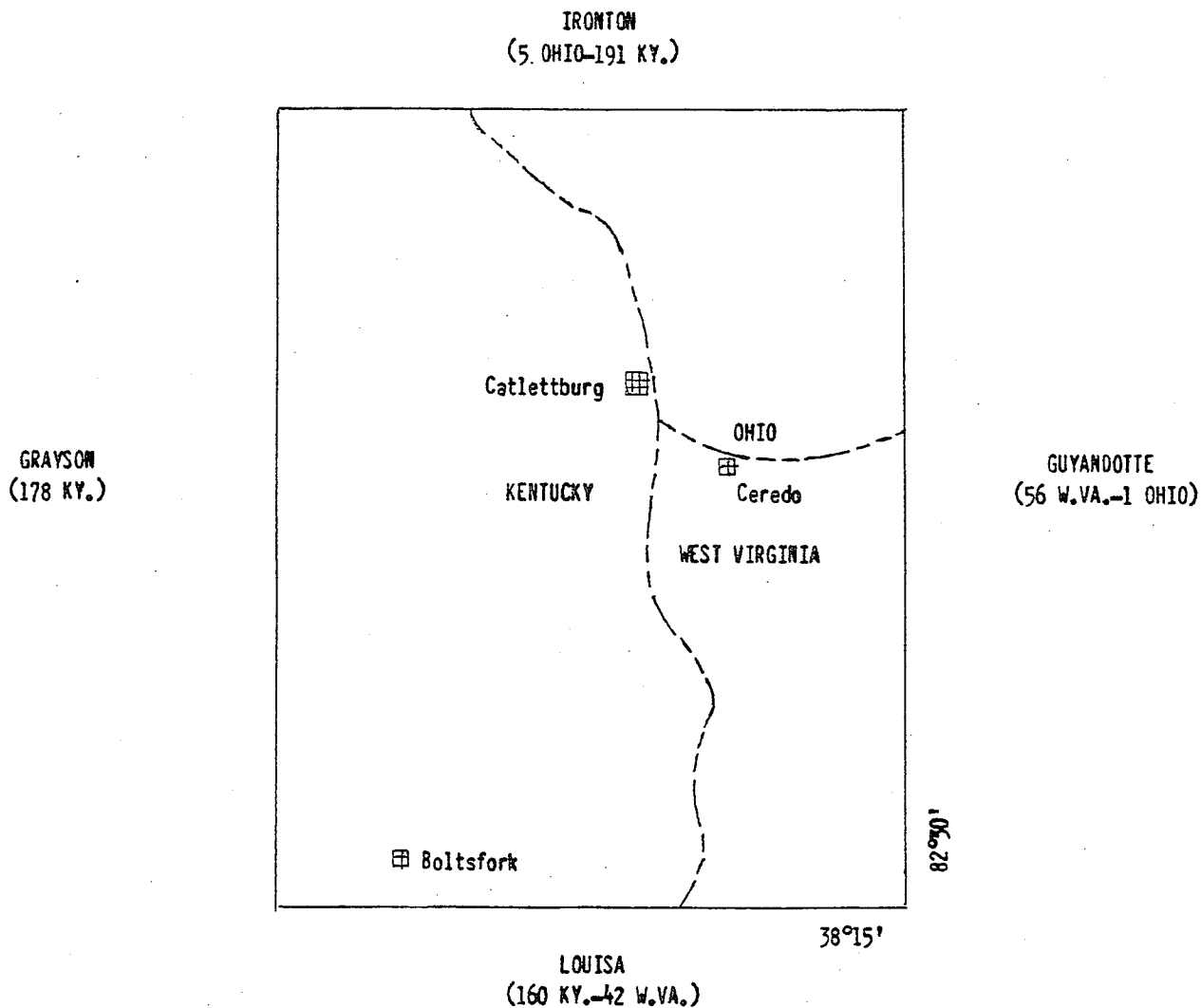
Boyd, Greenup, and Lawrence Counties, Ky.;
Wayne County, W.VA.; and Lawrence County, Ohio

Only the permanent marks are
listed for control classified
obsolete and are not shown on
sketch

Edition of 1/4/77

PR: CRV/rmm

Plane coordinates are based on Lambert projection,
Kentucky, North Zone; West Virginia, South Zone,
and Ohio, South Zone



DISCLAIMER

We no longer attest to the validity of the positions listed for horizontal control established by transit traverse procedures. This control is now considered OBSOLETE and is included in this list for the purpose of identification only.

177 KY.-57 W.VA.-2 OHIO
CEREDO QUADRANGLE

38-082-31
N3815-W8230/15

INDEX OF PERMANENT MARKS

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TT 6 GBG 1955 562	4
TT 7 GBG 1955 578	4
TT 8 GBG 1955 568	4
TT 9 GBG 1955 581	4
TT 1 RCD 1955 674	3
<u>USED</u>	
566.31	4

177 KY.-57 W.VA.-2 OHIO
CEREDO QUADRANGLE

38-082-31
3

STATION	DESCRIPTION	LATITUDE	LONGITUDE
PLANE COORDINATES, FEET		O I N	O I N

The following positions are considered OBSOLETE. To be used only to locate permanent marks in the field.

By M. L. Bennett (TVA), 1952; Fieldbooks MS 30208, 30209, 30210

Boltsfork; 500 ft N. of State Highway 3 steel bridge over Bolts Fork; at NW. corner of lawn at residence of Drew Hogan; 71 ft S. of SW. corner of Drew Hogan Store; 50 ft ENE. of chiseled square on rock outcrop across rd.; 38 ft SW. of nail and bottle cap in power pole; 20 ft ENE. of I-rd. W.; in concrete post; standard tablet stamped "TVA TT 31 NY 1952"

Ky. N) X = 2,444,692 Y = 282,913 38 15 59.89 82 42 03.96

Alley; 0.5 mi S. of East Fork Methodist Church, along State Highway 3; 2.1 mi N. of Highway 3 bridge at Boltsfork; on property of Clem Bromfield; between brick siding frame house and white barn; 55 ft WNW. of chiseled square on concrete base once used for gasoline pumps; 52 ft WNW. of nail and bottle cap in 12-in. oak tree; 50 ft SW. of centerline of hwy.; 40 ft SE. of E. corner of barn; 2 ft NE. of nail and bottle cap in power pole; in concrete post; standard tablet stamped "TVA TT 32 NY 1952"

X = 2,442,612 Y = 293,557 38 17 45.45 82 42 27.80

Alley, 1.3 mi W. of junction of U.S. Highway 23, along Garner Road; 0.5 mi NE. of I-rd. S.; 41 ft WNW. of painted cross on large fencepost; 22 ft NW. of centerline of rd.; 8 ft NE. of nail and bottle cap in 14-in. ash tree; 6 ft W. of nail and bottle cap in 12-in. ash tree; 4 ft NW. of pasture fence; in concrete post; standard tablet stamped "TVA TT 33 NY 1952"

X = 2,435,281 Y = 293,746 38 17 48.52 82 43 59.70

By M. L. Bennett (TVA), 1952; Fieldbook MS 30210

Princess, at junction of U.S. Highway 60 and State Highway 5; on U.S. Highway 60 right-of-way; 84.5 ft SE. of and level with centerline of I-rd. NW.; 14.4 ft NE. of 30-in. elm; 64.0 ft NE. of centerline of Y-rd. N.; 50 ft SW. of SE. end of culvert; in concrete post; standard tablet stamped "TVA TT 49 NY 1952"

X = 2,431,073 Y = 326,069 38 23 08.70 82 44 45.87

By G. B. Grunwell, 1955; Book AH 400

Getaway, about 3.9 mi NW. along State Highway 243 from Methodist Church; in sec. 3, T 1N, R 17 W.; about 1.1 mi W. of 20-ft bridge and side road NW.; at junction of drive N. to two-story white house; 25.5 ft N. of centerline of rd.; 32 ft E. of centerline of drive; 2.5 ft NW. of telephone pole; 17 ft SE. of SE. corner of garage; about 4 ft above level of hwy.; in concrete post projecting 2 in.; standard tablet stamped "TT 1 RCD 1955 674"

X = 2,492,455 Y = 366,797 38 29 40.63 82 31 45.54

STATION	DESCRIPTION	LATITUDE	LONGITUDE
	PLANE COORDINATES, FEET	° ' "	° ' "

OBSOLETE MARKS (Cont'd.)

Chesapeake, 2.1 mi W. of, along U.S. Highway 52, thence 2.0 mi N. along Buffalo Creek Road; at Buffalo Creek School and junction of Little Buffalo Creek Road; 34 ft N. and 58 ft W. of junction; 100 ft NW. of NW. end of bridge; 3 ft N. of yard fence corner; 55 ft S. of rd. fork W.; about 5 ft above intersection of rd. N.; in concrete post; standard tablet stamped "TT 4 GBG 1955 574"

Ky. N)	X = 2,499,863	Y = 349,328	38 26 46.60	82 30 16.53
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Chesapeake, about 3.0 mi W. of post office, along U.S. Highway 52; at Lock No. 28 on N. bank of Ohio River; 7 ft S. of S. face of lockhouse; 1 ft S. of N. edge of walk; 6 ft E. of center of front steps; in walk at S. face of lockhouse; USED standard brass plug designated "566.31"

	X = 2,500,739	Y = 337,440	38 24 48.94	82 30 08.37
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Huntington, 2.9 mi W. of corner of Fourth Avenue and Sixth Street, along U.S. Highway 60, thence 0.2 mi NW. along West 28th Street to river levee; at pump station at mouth of Four Pole Creek; 67 ft NE. of NE. corner of pump building; 14 ft S. of SE. corner of concrete platform; on top of levee; 2 ft NE. of corner post for guardrail; in concrete post; standard tablet stamped "TT 6 GBG 1955 562"

	X = 2,500,973	Y = 335,380	38 24 28.53	82 30 05.92
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Ceredo, about 2.2 mi E. of, along U.S. Highway 60 and Spring Valley Road; 4.3 mi W. of Huntington (corner of Fourth Avenue and Sixth Street), along Highway 60 and rd. to Spring Valley rd.; at junction of rds. at S. end of viaduct over C. & O. Ry.; about 100 ft SW. of small concrete block shed; 64 ft SE. of SE. corner of sidewalk at S. end of viaduct; 51 ft W. of vertical 3-in. pipe in gasline; 32 ft S. and 34 ft E. of junction of I-rd.; 28 ft S. of, and about level with centerline of rd. opposite; 26 ft E. of rd. sign; in concrete post; standard tablet stamped "TT 7 GBG 1955 578" (Not found, 1968)

	X = 2,496,621	Y = 330,930	38 23 45.36	82 31 01.63
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Spring Valley Store, 1.5 mi W. of, along paved rd.; 3.1 mi NE. of junction of paved rd. with State Highway 75; 1.0 mi W. of entrance to Veterans Administration Hospital; at rd. junction on curve in front of residence of Lloyd Ward; 42 ft S. and 36 ft W. of centerline of main rd. and rd. tangent W.; 19 ft S. and 34 ft E. of graveled I-rd. N.; 27 ft W. of, and about 3 ft higher than centerline of main rd. opposite; 10 ft N. of fence corner; 2 ft E. of stone retaining wall; in concrete post; standard tablet stamped "TT 8 GBG 1955 568" (Reported destroyed, 1957)

	X = 2,492,560	Y = 323,675	38 22 34.41	82 31 54.33
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Spring Valley Store, 2.9 mi S. of, along rd.; 2.4 mi S. of entrance to U.S. Veterans Hospital; at entrance gate to Camp Mad Anthony Wayne; 1.8 mi N. of junction of State Highway 75 and Spring Valley Road; 46 ft SW. of pole No. 486 - 46; 37 ft due E. of entrance to camp; 2 ft NW. of large rock in row of rocks at entrance gate; in concrete post flush with lawn; standard tablet stamped "TT 9 GBG 1955 581"

	X = 2,498,042	Y = 320,926	38 22 06.22	82 30 46.15
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177 KY.-57 W.VA.-2 OHIO
CEREDO QUADRANGLE

MAP CONTROL
NOT FOR DISTRIBUTION

38-082-31
1

SUPPLEMENTAL

By W. C. Elder, 1958; Book AH 542

MGS standard triangulation station disk stamped "LANGDON 1934"

Ky. N) X = 2,490,270.30 Y = 361,263.38 38 28 46.344 3 82 32 14.306

LANGDON 1934, 0.3 mi NW. of; W. of hwy.; 28 ft N. of fence; 12 ft W. of clump
of trees; reinforcing rod; designated LANGDON + 1

X = 2,488,826 Y = 361,958 38 28 53.47 82 32 32.30

Coalgrove, 0.7 mi NE. of; near S. edge of sec. 31, T. 1 N., R. 18 W.; about
0.2 mi S. of State Highway 243; N. of transmission line and E. of fenceline;
designated NEWCASTLE HILL LOT + 1 B

X = 2,462,236 Y = 367,017 38 29 48.22 82 38 05.54

Coalgrove, 0.4 mi NE. of; N. of State Highway 243 at T-rd. N.; at SW. corner of
Zoar Baptist Church; on SW. corner of sidewalk; chiseled square designated
NEWCASTLE HILL LOT + 1 C

X = 2,463,917 Y = 368,715 38 29 59.36 82 37 44.13

Corrida G. ...

Station: FLAGPOLE (Not occupied) County: Lawrence State: Ohio
Observer: G. B. Grunwell Year: 1955 Datum: Prelim. 1927 N.A.D.
Description:

**At U. S. Lock and Dam No. 28, at W. edge of office building;
flagpole**

W.Va. S. X = 1,569,530

Y = 518,210

[Latitude 38 24 48.84

Longitude 82 30 08.79]

To Station—	Azimuth ° ' "	Back Azimuth ° ' "	Distance	
			Feet Log. Meters	Miles
East Base	308 50 11	128 50 24	2185	0.414
WHTN (Tower)	313 42 58	133 43 59	10,784	2.042
West Base	351 21 17	171 21 20	2044	0.387

ED-57

Station: TANK (V.A. Hospital) County: Wayne State: W. Va.

Observer: G. B. Crowell Year: 1955 Datum: Franklin, 1927 N.A.D.

Description: 50-c AB 407 (Unoccupied)

Huntington, 8.0 mi by rd. SW. of downtown area, near Spring Valley; at U. S. Veterans Administration Hospital; corner of rock finial in red and white checkered main water tank.

W. Va. S.) X = 1,565,489

Y = 504,875

[Latitude 38 43 36.37 Longitude 80 30 57.45]

To Station--	Azimuth			Back Azimuth			Distance	
	°	'	"	°	'	"	METERS FEET	Miles
Oakland (USC&GS)	88	35	04	262	20	18	38,220	7.239
Langdon (USC&GS)	170	43	30	350	42	45	37,924	7.182

Cerido - 2 - Ohio

Station: LANGDON (U.S.C. & G.S.) County: Lawrence State: Ohio

Observer: G. B. Grunwell Year: 1955 Datum: 1927 N.A.D.

Description:

Station is on a high knob near the heads of Rankin Creek and Buffalo Creek, about 5.75 mi E. of center of Ashland, Ky., about 6 mi NNE of Kenova, W.Va., on property of Morris Langdon.

Surface, reference and azimuth marks are standard bronze disks set in concrete cylinders.

Underground mark is a standard bronze disk set in concrete.

Reference mark 1 is N. of station at same elevation.

Reference mark 2 is E. of station, about 10 ft lower, at S. edge of dim rd. past station.

Azimuth mark is ENE. of station, 10 ft E. of centerline of dirt rd., about 125 yds N. of Langdon home.

To reach from Huntington, W.Va., take U. S. Highway 52 N. across Ohio River Bridge, go for 0.25 mi, turn right, (N) on gravel T-rd. Follow main road ahead for 1.85 mi and take right fork. Keep main rd. from here for 3.0 mi., turn sharp left at rd. junction. Go up this rd. for 4.4 mi and turn left at rd. junction. Proceed about 100 yds and turn at crossroads up hill. Go 0.35 mi to top of grade opposite station. It is on a small knoll in apple orchard about 250 yds W. of Langdon home, and 81 ft ENE. of dead snag.

A 10-ft stand was required.

W.Va. S. X = 1,559,940

Y = 542,396

[Latitude 38 28 46.344

Longitude 82 32 14.306]

To Station—	Azimuth			Back Azimuth			Distance	
	°	'	"	°	'	"	Feet Log. Meters	Miles
Oakland (USC&GS)	36	47	17.4	216	43	09.6	53,041	10.046
Motts (A.M.S.)	272	33	35.0	92	40	02.4	49,564	9.389
WPLH (Tower)	315	48	02	135	51	48	41,544	7.868
WSAZ (TV Tower)	316	03	11	136	07	19	45,822	8.678
WHTN (Tower)	330	31	36	150	33	55	36,153	6.847
RADIO 2 (Tower)	337	34	32	157	36	51	46,470	8.801
TANK (V.A. Hosp.)	350	42	43	170	43	30	37,924	7.182