

Code	SPCS Northing	SPCS Easting	SPCS Elevation	Latitude	Longitude	Ellipsoid Height	Description
CP BM 59 (2007)	1394471.302	744024.0875	4383.92817	34°50'46.53562"N	111°49'11.85177"W	4303.45459	3-1/4" BLM brass cap on steel pipe stamped "1/4 S19/S30 T17N R06E 1957 1884" (DH5788)
CP BM VORTEX (2007)	1399355.912	726507.3787	4465.15748	34°50'46.53562"N	111°49'41.94433"W	4384.14058	3-1/4" SWI alum disk in concrete stamped "VORTEX 2001" (AJ5637)
CP Y 492 BM 82 (2007)	1405328.088	740572.3942	4439.70055	34°51'45.45669"N	111°48'53.08526"W	4359.55664	3-1/2" NGS brass disk in bedrock stamped "Y 492 1982" (ES0652)
BM 4	1402194.136	730640.2774	4362.51801	34°51'14.57228"N	111°48'52.32005"W	4281.81434	COS brass cap No. 4 - 4359.608 - 1990 (found at the SE corner of Racquet Road and Foothills South Drive)
BM 5	1400921.761	730678.4905	4416.39228	34°51'01.98566"N	111°48'51.87707"W	4335.62902	COS brass cap No. 3 - 4413.559 - 1990 (found at the NE corner of Racquet Road and Calle del Montana)
BM 7	1405879.477	727806.0066	4453.80965	34°51'51.05457"N	111°48'26.29005"W	4372.97802	COS brass cap No. 7 - 4450.700 - 1990 (found on the east side of Cachina Drive at the intersection with Zia Drive)
BM 8	1407796.966	728427.843	4486.16018	34°52'10.01641"N	111°48'18.80541"W	4405.64713	COS brass cap No. 6 - 4483.296 - 1990 (found on the east side of Dry Creek Road +/- 100 ft south of Color Cove Road and north of Golden Road)
BM 9	1410108.357	728719.7684	4579.27567	34°52'32.85789"N	111°48'15.27521"W	4498.88077	COS brass cap No. 9 - 4576.473 - 1990 (found on east side of Dry Creek Road at the intersection with Camino del Caballo)
BM 13	1404147.123	732882.465	4370.36725	34°51'33.86762"N	111°48'25.38846"W	4289.85191	COS brass cap No. 13 - 4367.391 - 1990 (found south of Roadrunner Road between Thunderbird Drive and Golden Eagle Drive)
BM 14	1408284.928	731895.8654	4505.01639	34°52'14.81095"N	111°48'39.57607"W	4424.85108	COS brass cap No. 14 - 4502.07 - 1990 (found north of Thunder Mountain Road between Thunder Mountain Trailhead and +/- 120 ft west of Rhapsody Road)
BM 15	1408321.524	733705.1822	4485.03118	34°52'15.15133"N	111°48'15.45916"W	4414.74873	COS brass cap No. 15 - 1990 (found at the NE corner of Thunder Mountain Road and Sunshine Lane)
BM 17	1405542.165	734331.138	4384.85484	34°51'47.85121"N	111°48'07.98433"W	4304.26596	COS brass cap No. 17 - 4381.785 - 1990 (found behind the north curb of SR 89A +/- 10 ft west of Madole Road)
BM 18	1410822.391	733675.2301	4617.6425	34°52'39.88992"N	111°48'15.78502"W	4537.46637	COS brass cap No. 18 - 4614.57 - 1990 (found east of and at the north end of Sunshine Lane +/- 135 ft north of Sunshine Court)
BM 24	1404162.613	737467.4709	4384.47645	34°51'33.96779"N	111°47'30.36521"W	4284.14679	COS brass cap No. 24 - 4361.669 - 1990 (found at the SE corner of Northview Road and Park Circle)
BM 25	1405461.399	739819.1363	4419.47867	34°51'46.79700"N	111°47'12.92411"W	4339.26972	COS brass cap No. 25 - 4416.699 - 1990 (found just behind the south curb of SR 89A +/- 20 ft west of Birch Blvd)
BM 28	1406674.97	739951.5933	4463.21122	34°51'58.78811"N	111°47'00.51408"W	4383.10415	COS brass cap No. 28 - 4460.47 - 1990 (found east of Soldiers Pass Road +/- 110 ft north of Calle Diamante)
BM 30	1401287.121	738174.7054	4792.10211	34°51'05.51491"N	111°47'21.92173"W	4711.66129	COS brass cap No. 30 - 4789.60 - 1990 (found in handhole at intersection of Airport Road and Air Terminal Drive)
BM 31	1406457.084	742558.0711	4361.92765	34°51'57.48770"N	111°46'29.23424"W	4281.9328	COS brass cap No. 31 - 4359.17 - 1990 (found NW of SR 89A +/- 320 ft SW of entrance to Rolling Hills)
BM 33	1405098.299	743171.076	4433.49374	34°51'43.14785"N	111°46'21.90217"W	4283.4601	COS brass cap No. 33 - 4340.61 - 1990 (found just behind curb in east end of island in Les Springs Drive +/- 410 west of Les Springs Lane)
BM 34	1409410.171	747237.4624	4387.82118	34°52'25.73984"N	111°45'33.02014"W	4308.16662	COS brass cap No. 34 - 4385.012 - 1990 (found north of the intersection of Mountain View Drive and Norbie Road)
BM 39	1408060.284	748061.2654	4237.59491	34°52'12.37403"N	111°45'23.15818"W	4157.92049	COS brass cap No. 39 - 4234.610 - 1990 (found just behind southern sidewalk for parking at end of Arroyo Rojo Road)
BM 41	1402669.687	745354.9351	4162.00809	34°51'19.09250"N	111°45'55.73763"W	4081.96936	COS brass cap No. 41 - 4159.26 - 1990 (found at NW corner of Copper Cliffs Drive and Copper Cliffs Road)
BM 46	1395725.392	741763.125	4232.38342	34°50'10.45160"N	111°46'38.95514"W	4151.86481	COS brass cap No. 46 - 4229.55 - 1990 (found +/- 25 ft west of SR 179 +/- 120 ft south of Cathedral Rock Trail)
BM 49	1404967.637	736346.858	4392.24242	34°51'41.94461"N	111°47'43.80161"W	4311.90741	COS brass cap No. 49 - 1990 (found in handhole in center of Sunset Drive at entrance to Sunset Village)
BM 50	1402420.792	738344.5289	4369.8015	34°51'16.75100"N	111°47'43.86650"W	4289.33698	COS brass cap ELEV. 4367.10 (found on Sunset Drive at intersection with North Road)
BM 51	1399637.701	726237.8797	4453.14518	34°50'49.32540"N	111°49'45.17503"W	4372.13125	3-1/2" BLM brass cap stamped "T17N R06E S16/S15/S21/S22 1959" (found +/- 100 west of Red Rock Loop Road and +/- 50 south of Scorpion Drive)
BM 52	1399768.803	740910.4835	4255.55763	34°50'50.37364"N	111°45'37.12528"W	4175.46452	3-1/4" BLM brass cap stamped "T17N R06E S16/S15/S19/S20 1957" (found +/- 10 ft west of Lewis Way +/- 180 ft north of Cypress Court)
BM 53	1410251.014	740644.3599	4373.28654	34°52'34.06650"N	111°45'40.12332"W	4293.64835	2-1/4" brass cap stamped "SEC COM 05/7/88" (found at intersection of Jordan Road and centerline of Navajo Road)
BM 61	1405059.555	731451.6682	4370.96113	34°51'42.90844"N	111°48'42.54750"W	4290.43246	3-1/2" NGS brass disk in headwall stamped "Z 492 1982" (found +/- 20 ft south of SR 89A and +/- 30 ft west of Deer Trail Drive)
BM 62	1405216.915	732454.9507	4382.49902	34°51'44.45449"N	111°48'30.50505"W	4302.01905	3" ADOT aluminum cap stamped "ELEV. 4378.82" (found in catch basin headwall along the south curb of SR 89A +/- 220 ft west of Thunderbird Drive)
BM 63	1405456.847	734401.5168	4378.93743	34°51'46.80646"N	111°48'07.14087"W	4298.54728	3-1/2" NGS brass disk in headwall stamped "W 492 1982" (found south of SR 89A at the intersection with Madole Road)
BM 65	1405230.62	740918.6142	4433.4519	34°51'44.48791"N	111°46'48.93183"W	4353.31872	3" ADOT aluminum cap stamped "ELEV. 4429.90 1974" (found +/- 30 ft east of Airport Road and +/- 60 ft south of SR 89A)
BM 66	1407195.713	748435.7561	4301.82151	34°52'03.84708"N	111°45'42.68386"W	4222.03557	3" ADOT aluminum cap stamped "STA T126 1978" (found in catch basin headwall along the westerly curb +/- 370 ft south of Forest Road)
BM 67	1407622.148	746966.1028	4323.65723	34°52'08.06179"N	111°45'39.91133"W	4243.89888	GLO brass cap in handhole stamped "T17N R06E 1/4 S7/S8 1957" (found +/- 40 ft easterly of SR 89A between intersection with Forest Road and intersection with SR 89A +/- 40 ft north of Mormon Canyon as it intersects SR 89A)
BM 68	1409820.97	748422.2172	4294.03121	34°52'29.78475"N	111°45'18.79193"W	4214.45005	3-1/2" NGS brass disk in bedrock stamped "P 491 1982" (found +/- 10 ft westerly of SR 89A and +/- 40 ft north of Mormon Canyon as it intersects SR 89A)
BM 74	1405350.982	733445.9385	4388.78493	34°51'45.76992"N	111°48'18.81034"W	4308.35111	3" ADOT blank aluminum cap (found in catch basin headwall along the south curb of SR 89A +/- 300 ft west of Stutz Bearcat Drive)
BM 75	1405263.122	740908.3043	4433.04978	34°51'44.80955"N	111°46'49.05503"W	4352.91766	3" ADOT aluminum cap stamped "ELEV. 4429.29" (found +/- 30 ft east of Airport Road and +/- 25 ft south of SR 89A)
BM 78	1406645.033	745436.0694	4243.97194	34°51'58.41494"N	111°46'54.69103"W	4164.11337	3" ADOT aluminum cap stamped "ELEV. 4240.27 1974" (found in concrete headwall north of SR 89A and south of the Sedona Post Office)
BM 79	1407571.838	736339.6468	4477.77536	34°52'07.70516"N	111°47'43.85037"W	4397.56394	2-1/4" GLO brass cap on 1" iron pipe stamped "1/4 S11/S12 1949" (found +/- 10 ft west of Coffee Pot Drive and +/- 30 ft south of Budt Way)
BM 80	1394480.114	741132.8291	4432.56768	34°49'58.14197"N	111°46'46.53739"W	4261.96504	3-1/4" BLM brass cap stamped "T17N R06E S24/S19/S25/S30 1956" (found +/- 110 ft north of Sky Line Drive)
BM 84	1404939.557	741498.844	4471.63703	34°51'41.60087"N	111°46'41.97327"W	4391.51622	2-1/4" GLO brass cap on 1 3/4" iron pipe stamped "T17N R06E S12/S7/S13/S18 1949" (found north of the intersection of Brins Mesa Road and SR 179)
BM 85	1405524.294	741516.2028	4411.65233	34°51'47.38479"N	111°46'41.75526"W	4331.59966	3" ADOT aluminum cap stamped "ELEV. 4408.01 1974" (found south of SR 89A +/- 720 east of Airport Road)
BM 86	1398788.629	744499.6381	4198.27389	34°50'40.71409"N	111°46'06.07011"W	4118.01737	3" ADOT brass cap stamped "ELEV. 4194.80 STA 187X03.1 1948" (found in headwall on north side of SR 179 +/- 250 west of Pine Drive)
BM 208	1406749.826	746175.5088	4285.33414	34°51'59.44039"N	111°45'45.81563"W	4205.51429	3" ADOT aluminum cap stamped "POC 1128X36.0 ELEV. 4281.77 1974" (found in catch basin headwall along the north curb of SR 89A at the intersection of SR 179)
BM 213	1405256.528	746515.3479	4202.80637	34°51'44.86389"N	111°45'41.76462"W	4122.73575	3" ADOT brass cap stamped "ELEV. 4198.95" (found in deck of bridge over Oak Creek on SR 179)
BM 215 ADOT	1407648.667	746966.1588	4325.59782	34°52'08.32411"N	111°45'39.91017"W	4245.84066	3" ADOT aluminum cap stamped "POC 1133X82.34 ELEV. 4322.013 1978" (found in south sidewalk of SR 89A between intersection with Forest Road and intersection with Jordan Road)

STATE PLANE COORDINATE SYSTEM (SPCS)
 BASIS OF BEARINGS AND COORDINATES
 LINEAR UNIT: SURVEY FOOT
 GEODETIC DATUM: NAD83 (NSRS 2007)
 VERTICAL DATUM: NAVD83 (SEE BELOW)
 SYSTEM: STATE PLANE COORDINATE SYSTEM
 ZONE: ARIZONA CENTRAL (0202)

PROJECTION: TRANSVERSE MERCATOR
 LATITUDE OF GRID ORIGIN: 31° 00' 00" N
 LONGITUDE OF CENTRAL MERIDIAN: 111° 55' 00" W
 NORTHING AT GRID ORIGIN: 0.00 FT
 EASTING AT CENTRAL MERIDIAN: 700,000.00 FT
 CENTRAL MERIDIAN SCALE FACTOR: 0.9999

ALL MEASURED DISTANCES AND BEARINGS SHOWN HEREON ARE -NOT- GRID VALUES BUT PROJECTED FOR THE PRECEDING COORDINATE SYSTEM DEFINITION. THIS DEFINITION IS SUCH THAT GRID DISTANCES ARE -NOT- EQUIVALENT TO "GROUND" DISTANCES IN THE PROJECT AREA.

THE VERSION OF THIS CONTROL SURVEY RECORDED WITH COCONINO AND YAVAPAI COUNTIES USE A COORDINATE SYSTEM WHERE ALL MEASURED DISTANCES AND BEARINGS SHOWN ARE GRID VALUES. THEREFORE GRID DISTANCES ARE EQUIVALENT TO "GROUND" DISTANCES IN THE PROJECT AREA.

ORTHOMETRIC HEIGHTS (ELEVATIONS) WERE TRANSFERRED TO THE SITE FROM NGS POINT "VORTEX" (NGS PID AJ5637) USING GPS WITH NGS GEOID MODEL "GEOID03". ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE PUBLISHED ELEVATION OF THIS STATION.

THE SURVEY WAS CONDUCTED USING GPS REFERENCED TO THE NATIONAL SPATIAL REFERENCE SYSTEM 2007 READJUSTMENT. A PARTIAL LIST OF POINT COORDINATES FOR THIS SURVEY IS GIVEN BELOW (ADDITIONAL COORDINATES ARE AVAILABLE UPON REQUEST). LOCAL NETWORK ESTIMATES ARE GIVEN AT THE 95% CONFIDENCE LEVEL AND ARE

Network Control

VORTEX			
3-1/4" SWI ALUM DISK IN CONCRETE STAMPED "VORTEX 2001" (AJ5637)			
LATITUDE	NORTHING	ESTIMATED ACCURACY	
34° 50' 46.53562" N	411,111.057 FT	HORIZ = FIXED	
111° 49' 41.94433" W	EASTING = 41,501.162 FT	HORIZ = FIXED	
ELLIPSOID HEIGHT = 4,384.140 FT	ELEVATION = 4,465.157 FT	VERT = FIXED	

Y 492			
3-1/2" NGS BRASS DISK IN BEDROCK STAMPED "Y 492 1982" (ES0652)			
LATITUDE	NORTHING	ESTIMATED ACCURACY	
34° 51' 45.45669" N	417,068.677 FT	HORIZ = FIXED	
111° 46' 53.08526" W	EASTING = 55,577.406 FT	HORIZ = FIXED	
ELLIPSOID HEIGHT = 4,359.532 FT	ELEVATION = 4,439.676 FT	VERT = FIXED	

CITY OF SEDONA CONTROL SURVEY

SECTIONS 5-8, 17-20, & 30 TOWNSHIP 17 NORTH, RANGE 6 EAST, GILA AND SALT RIVER MERIDIAN, COCONINO COUNTY, ARIZONA
 SECTIONS 1-4, 9-16, 21-25 TOWNSHIP 17 NORTH, RANGE 5 EAST, GILA AND SALT RIVER MERIDIAN, YAVAPAI COUNTY, ARIZONA

