

35°45'
111°45'

ARIZONA 395

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Williams Project Master in ARIZONA 327 - Book: PH 664

DESCRIPTION
HORIZONTAL CONTROL STATION

35 111 44
DIAGRAM Flagstaff
USGS QUAD NO. 395

2nd-Order

Triangulation

Electronic - Distance Traverse

Intersected Object

Station GRANDVIEW County Coconino State AZ

Established by NGS Year 1920 Project _____

Check one:

New Station: Write full description below

Recovery of Old Station: Recovered by USGS Year 1956 Project PH 474

Object	Bearing	Distance		AZIMUTH
		Feet	Meters	
RED GRANDVIEW LOT	SE	108.2		38°39' 3.4" 326 50 56

Described by National Geodetic Survey in description list 35 111 4, station 1004.

Note by W.K.P., 1956: Found as described, all marks in good condition with the exception of GRANDVIEW LOT. Old tower of 1934 has been replaced by an 87-ft (to the eaves), steel tower in 1936.

NGS Adjusted Coordinates

ARIZONA CENTRAL ZONE ELEV 7531.067 FT
X= 488504.29
Y= 1803857.42
MAPPING ANGLE=-0 1 19 QUAD 35 111 44

GRANDVIEW LAT 35 57 28.1360 LONG 111 57 14.9720

FILE COPY

APR 15 1975

United States
Department of the Interior

Geological Survey
Form No. 9-322.3 Rev. 1977

Description
Horizontal Control Station

NGS Quad No. 35 111 44
USGS Quad No. 395

Station GRAND VIEW USGS
Diagram FLAGSTAFF
THIRD order TRIANGULATION
Established By USGS

County COCONINO
Year 1903 Project 3386-97

State AZ

USGS UNADJUSTED 1981 coordinates

Latitude: N35 58 46.512
Longitude: W111 58 59.055
Unverified Elevation: 7531 Feet 2295 Meters
UTM Zone 12(Meters): X: 411371.86 Y: 3981930.62
Mapping Angle: -0 34 39
AZ State Zone C(Feet): X: 480353.26 Y: 1811786.45
Mapping Angle: -0 2 20
AZ State Zone W(Feet): X: 1022817.00 Y: 1816577.14
Mapping Angle: +1 2 18

LOCATED 300 FT. IN FRONT OF GRAND VIEW HOTEL; ON CANYON RIM.

TO REACH NOT GIVEN.

STATION MARK: STANDARD BRASS TABLET, STAMPING UNKNOWN, SET IN
LIMESTONE ROCK.

RMS: NONE SET.

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Arizona (395)

Coconino County

2-48B (Tellurometer)

1927 N.A.D. (Unadj.)

L.B. Mansfield, 1959

Books: PH 663-664

FILE COPY

Located about 16 mi. SE. of Grand Canyon Village, 12 mi. S.-SW. of Desert View Lookout Point and 0.5 mi. W. of a reservoir. Station is in E. edge of a bulldozed trail in a small open area on a timbered ridge that drops to S. Bulldozed trail intersects a dirt rd. to W. about 300 ft.

Station reached by helicopter.

Station Mark: A $\frac{1}{2}$ -inch galvanized pipe projecting 0.3 ft. above ground.

Signal: Fluorescent cloth centered over station mark.

Signal Data: Top of fluor. cloth 4.1 ft.

Image Point No. 1: Lone tree, 23 ft. from station mark and 1.2 ft. lower in grid azimuth $62^{\circ}40'$.

Image Point No. 2: Tree, 38 ft. from station mark and 1.5 ft. higher in grid azimuth $229^{\circ}06'$.

Image Point No. 3: Lone tree, 78 ft. from station mark and 2.9 ft. lower in grid azimuth $347^{\circ}42'$.

Photo No.: 2-48 GS-VVP

ARIZONA ZONE CENTRAL
X= 509,948.
Y=1,773,259.

V. A. Elevation: 7126 (T)

Lat 35 52 25.51 Long 111 52 59.12

(GRID VALUES)

<u>To Station</u>	<u>Azimuth</u>	<u>Back Azimuth</u>	<u>Feet</u>
Bare	28°18'21."	208°18'21."	61,450.

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6-18-59 lt *1/11/7*

Arizona (395)

Coconino County

5-29C

1927 N.A.D. (Unadj.)

FILE COPY

G. Barbato, 1959

Books: PH 663-664

Located about 37 mi. NE. of Williams, 14 miles N. of Ebert Mtn., 12 miles NE. of Valle Airport, 10.5 mi. NW. of Mesa Butte and 8.5 mi. E. of State Hwy. 64 in a shallow drain at the W. side of fence line.

Station reached by helicopter.

Station Mark: Copper nail and washer in wooden hub level with ground.

Signal: White flag over red X-tgt. on 2x2 pole centered over station mark.

Signal Data:	Top white flag	10.5 ft.
	Top red X-tgt.	7.5
	Bottom red X-tgt.	5.0

Image Point No. 1:	Grid Azimuth	229°14'
Image Point No. 2:	Grid Azimuth	263°43'
Image Point No. 3:	Grid Azimuth	336°49'

Photo No.: 5-29

ARIZONA ZONE CENTRAL
X= 504,487.
Y=1,728,305.

V.A. Elevation 6567 ft.

Lat 35 45 00.90 Long 111 54 05.56
(GRID VALUES)

<u>To Station</u>	<u>Azimuth</u>	<u>Back Azimuth</u>	<u>Feet</u>
Bare	68°52'32."	248°52'32."	25,382.
Red (C&GS)	114 45 14.	294 45 14.	61,171.

6-18-59 1t

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✓EEJ

GRANDVIEW (C&GS)

Coconino County

Ariz.(395)

USC&GS, 1920, 1934, 1953
W. K. Platt, 1956

1927 N.A.D.

INACTIVE FILE
INACTIVE COPY

Books: PH 473-474

Described by U. S. Coast and Geodetic Survey in
description list No. ~~627~~, pages ~~3~~ and ~~4~~. 95 111 4-1004

Note by W.K.P., 1956: Found as described, all marks
in good condition with the exception of Grandview L.O.T.
old tower of 1934 has been replaced by a steel tower in
1936; and is now 108.2 ft. from station mark in azimuth
326°51'.

Signal: Center of L.O.T., 108.2 ft. from station
mark in azimuth 326°51'.

Signal data: Eaves of L.O.T. 87.0 ft.
Floor of L.O.T. 80.0

Ecc. Station: On steps of L.O.T, 105.2 ft. from
station mark in azimuth 324°11'.

Identified on photo 7-32 (planetable sketch)

ARIZ. ZONE CENTRAL

*X= 488,904.29

*Y=1,803,857.43

~~V.A. Elevation 7531.2 ft.~~

GM ELEVATION 7531.067

*Latitude: 35°57'28.136"

*Longitude: 111°57'14.972"

*=Values by USC&GS

11/19/56 mk ✓

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INACTIVE FILE

FILE COPY

Geodetic Control Unit

DO NOT REMOVE

1650

1-23 A

Coconino County

Ariz.(395) FILE COPY

H. J. Hall, 1956 (n)

1927 N.A.D.(Unadj.)

Books: PH 473-474

Located about 43 mi. N. and 15 mi. E. of Williams, on the S. and W. end of a wooded ridge.

Station mark and signal: White flag over red panel fastened to top of a tree.

Signal data:	Top white flag	34.4 ft.
	Top red panel	31.4
	Bottom red panel	28.4

ARIZONE ZONE CENTRAL

X= 480,605.

V.A. elevatyon 7077 ft.

Y=1,773,172.

~~OK for scaling if record~~

Lat 35 52 24.60

Long 111 58 55.68

(n)=Not occupied checked intersection, good for scaling evaluated PH 1728

~~Red -0.3~~

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~~Gate -4.0~~

11/19/56 mk. *[initials]*

~~Howard -6.2~~

INACTIVE

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Geodetic Control Unit
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