

QUALITY OF RESULTS

STANDARD FOR 2ND ORDER CLASS I:

EACH KILOMETER OF LINE WILL BE DOUBLE RUN USING A MAXIMUM LENGTH OF SIGHT = 60 METERS AND THE CLOSURE WILL BE $6\text{MM}\sqrt{K}$ WHERE K IS LENGTH OF LINE IN KILOMETERS. THE EASIEST MEANS OF DESIGNING AND COMPUTING QUALITY OF LEVELING IS ERROR PER TURN. TO FIND THE ERROR PER TURN ASSUMED BY THE STANDARD ONE MUST REALIZE THAT EVEN THOUGH THE RUN IS ONLY 1 KILOMETER THE TOTAL DISTANCE RUN IS 2 KILOMETERS. NOTE SINCE EACH TURN CAN BE NO LONGER THAN 60M THEN THERE WILL BE 16.7 TURNS PER DOUBLE RUN KILOMETER. SINCE THE PROPOSED LEVELING WILL BE ACCOMPLISHED USING TWO RODS, THEN AS:

"THE RODS ARE USED IN PAIRS, EACH ROD ALTERNATING AS THE FORWARD AND BACKWARD ROD, AND THE SAME ROD IS ALWAYS READ FIRST REGARDLESS OF POSITION. THAT IS, ONE ROD WILL BE USED FOR THE BACK READINGS ON ODD-NUMBERED INSTRUMENT STATIONS, AND FOR THE FORWARD READINGS ON EVEN-NUMBERED STATIONS. THIS REQUIRES THAT THE SAME ROD BE READ ON BOTH THE BEGINNING AND ENDING STATION."

THE NUMBER OF TURNS IS THEN ROUNDED UP TO THE NEAREST EVEN NUMBER OR 18. THE ALLOWABLE DIFFERENCE IS THEN 6MM AS THE SECTION LENGTH IS $K = 1$ KILOMETER. THEN THE FOLLOWING IS TRUE:

$$\sqrt{18} \times \sigma_{turns} = 0.006$$

BASED ON THE LAW OF RANDOM ERROR PROPAGATION AND SOLVING THE ABOVE ONE FINDS THAT THE PERMISSIBLE ERROR PER TURN TO MEET THE STANDARD (ALWAYS ASSUMED TO BE 1 SIGMA!) IS:

$$\sigma_{turn} = 0.0014 \text{ m/turn}$$

IT IS CUSTOMARY TO DESIGN THE OBSERVATIONAL SCHEME TO 3 SIGMA OR 99.7% PROBABILITY. HENCE THE FOLLOWING INSTRUMENTAL AND FIELD OBSERVATION LIMITATIONS WERE EMPLOYED. THE LEVEL EMPLOYED IS A ZEISS NI2 AUTOMATIC LEVEL HAVING A CERTAINTY IN THE LEVEL LINE OF SIGHT MEASURED IN ARC SECONDS OF 0.5". THE EYEPIECE MAGNIFICATION IS 32X. THE LENGTH OF SIGHT WAS KEPT TO 50 METERS. THE FOLLOWING EVALUATION WILL THEN DEMONSTRATE THAT THE OBSERVATIONAL DESIGN OPTIMIZATION EMPLOYED MEETS THE STANDARD:

THE ASSUMED DESIGN CRITERIA CENTER ON ROD READING ERROR AND ERROR IN ESTABLISHING THE LEVEL LINE OF SIGHT. OBSERVATIONAL TECHNIQUES REMOVE ROD INDEX ERROR, THE C-FACTOR HAS BEEN ALLOWED FOR IN THE REDUCTION AS HAS THE ROD CALIBRATION ERROR.

LINE OF SIGHT:

$$\sigma_{LS}^2 = (\text{SIN}(\alpha))^2 x d^2$$

READING ERROR:

$$\sigma_R^2 = \left(\text{SIN}\left(\frac{70}{M}\right) \right)^2 x d^2$$

GIVEN THAT D = 50M AND A = 0.5 ARC-SECONDS THEN:

$$\sigma_{LS}^2 = 1.469 x 10^{-8}$$

AND M = 32X THEN:

$$\sigma_R^2 = 1.623 x 10^{-7}$$

FROM THE LAW OF RANDOM ERROR PROPAGATION THE FOLLOWING IS TRUE FOR READING AND POINTING AT ONE ROD:

$$\sigma_{rod}^2 = \sigma_{LS}^2 + \sigma_R^2$$

AND BY SUBSTITUTION:

$$\sigma_{rod}^2 = 1.77 x 10^{-7}$$

AND FOR ONE TURN:

$$\sigma_{turn}^2 = 2x \sigma_{rod}^2$$

AND THEN THE ERROR PER TURN FOR ONE SIGMA (68%) IS THEN:

$$\sigma_{turn} = \pm 0.00060 \text{ m/turn}$$

AS MENTIONED EARLIER THE WORK IS ALWAYS DESIGNED TO EITHER 2 SIGMA OR THREE SIGMA. TO COMPUTE TWO SIGMA MULTIPLY THE ABOVE BY 1.96 AND TO COMPUTE THREE SIGMA MULTIPLY BY 2.58.

THREE SIGMA:

$$\sigma_{turn} = \pm 0.0015 \text{ m/turn}$$

WHICH TO AN ORDER OF MAGNITUDE AND THE LIMITATIONS OF THE ASSUMPTIONS INDICATES THE STANDARDS CAN BE MET. THE A'POSTERIORI RESULTS AFTER A LEAST SQUARES ADJUSTMENT WERE (WITH A VARIANCE FACTOR OF 1.01):

$$\sigma_{turn} = \pm 0.0011 \text{ m/turn}$$

WHICH INDICATES STATISTICALLY THAT THE CRITERIA HAVE BEEN MET.

FEBRUARY 11, 1998

**BENCH MARKS
FOR
SECOND ORDER CONTROL LINES**

<u>BM #</u>	<u>DESCRIPTION</u>
A 253	A U.S.C. & G.S. BRASS DISK "1940" LOCATED: ABOUT 1.9 MILES NORTHEAST ALONG THE ATCHISON TOPEKA & SANTA FE RAILWAY FROM THE STATION AT KINGMAN, 4 POLES SOUTHWEST OF MILEPOST 514 1/2, 230 FEET SOUTHWEST OF THE NORTHEAST END OF A RAILWAY CUT THROUGH A STONE RIDGE, 15 FEET NORTHWEST OF THE CENTER OF THE TRACK, IN A STONE PROJECTION OF THE CUT, AND ABOUT 2 FEET HIGHER THAN THE TOP OF THE RAIL. ELEVATION: 1067.146 M (3501.13 FT) FIXED.
N 486	AN N.G.S. BRASS DISK "1982" LOCATED: 2.1 MILES NORTHEAST OF KINGMAN ALONG THE ATCHISON TOPEKA AND SANTA FE RAILROAD FROM THE STATION AT KINGMAN, AT U.S. HIGHWAY MILE POST NUMBER 55, 108 FT. SOUTHEAST OF THE EXTENDED CENTER LINE OF FAIRGROUNDS BOULEVARD, 10 FEET NORTHWEST OF THE NORTHWEST RAIL, 26 FEET SOUTHEAST OF THE CENTER LINE OF AN ACCESS RD., SET IN TOP OF A MASSIVE PORTION OF EXPOSED OUTCROP NEAR THE CENTER OF A RAILRD. CUT. <u>DATUM USED IS NAVD 88 HENCE THIS MARK NOT HELD FIXED FOR THIS WORK.</u> PUBLISHED NAVD 88 VALUE IS 1069.799 METERS AND ESTIMATED: NAVD88 - NAVD29 = +0.80 METERS. ELEVATION: 1068.993 M (3507.19 FT)
P 486	AN N.G.S. BRASS DISK "1982" LOCATED: 2.9 MILES NORTHEAST OF KINGMAN AND 2.9 MILES NORTHEAST ALONG THE ATCHISON, TOPEKA AND SANTA FE RAILROAD FROM THE STATION AT KINGMAN, 0.2 MILES NORTHEAST OF A CONC. RAILROAD RAMP, 0.15 MILES SOUTH OF THE INTERSECTION OF ANDY DEVINE AND HOOVER ST.S, 150 FEET NORTH OF A POWER LINE POLE WITH A TRANSFORMER, 210 FEET NORTHWEST OF THE NORTHWEST RAIL, 275 FEET SOUTHEAST OF THE SOUTHEAST CURB OF ANDY DEVINE, IN TOP OF A 6 BY 6 FT. ABANDONED SIGN FOUNDATION PROJECTING 3 FEET ABOVE GROUND THE MARK IS 1 FOOT NORTHEAST OF A WITNESS POST AND IS 6 FEET BELOW THE TRACK. <u>DATUM USED IS NAVD 88 HENCE THIS MARK NOT HELD FIXED FOR THIS WORK.</u> PUBLISHED NAVD 88 VALUE IS 1066.923 METERS AND ESTIMATED: NAVD88 - NAVD29 = +0.80 METERS. ELEVATION: 1066.117 M (3497.75 FT)
Y 124	A U.S.C. & G.S. BRASS DISK LOCATED: 3.7 MILES NORTHEAST ALONG THE ATCHISON, TOPEKA & SANTA FE RAILWAY FROM THE STATION AT KINGMAN, MOHAVE COUNTY, 7-1/2 POLES NORTHEAST OF MILEPOST 513, AND 31.5 FEET NORTHWEST OF THE CENTER LINE OF THE NORTHWEST TRACK, AND IN THE EAST FACE OF A LARGE BOULDER. A STANDARD DISK, STAMPED " <u>Y 124 1935</u> " AND

SET VERTICALLY.

ELEVATION: 1061.596 M (3482.92 FT) FIXED.

- X 124 A U.S.C. & G.S. BRASS DISK LOCATED: 4.6 MILES NORTHEAST ALONG THE ATCHISON, TOPEKA & SANTA FE RAILWAY FROM THE STATION AT KINGMAN, MOHAVE COUNTY, 150 FEET NORTHWEST OF MILEPOST 512, 110 FEET NORTHWEST RAIL OF THE SOUTHEAST TRACK, 2 FEET SOUTHEAST OF A FENCE, AND 2 FEET SOUTHWEST OF A WHITE WOODEN WITNESS POST. A STANDARD DISK, STAMPED "X 124 1935" AND SET IN THE TOP OF A CONC. POST PROJECTING 0.5 FEET ABOVE GROUND
ELEVATION: 1050.967 M (3448.05 FT) FIXED.
- W 124 A U.S.C. & G.S. BRASS DISK LOCATED: 5.5 MILES ALONG THE ATCHISON, TOPEKA & SANTA FE RAILWAY FROM THE STATION AT KINGMAN, MOHAVE COUNTY, 88 FEET NORTHWEST OF IRON MILEPOST 511, 98 FEET NORTHWEST OF THE CENTER LINE OF THE NORTH TRACK, 2.5 FEET NORTH OF A WHITE WOODEN WITNESS POST, AND 2 FEET SOUTHEAST OF THE RIGHT-OF-WAY FENCE. A STANDARD DISK, STAMPED "W 124 1935" AND SET IN THE TOP OF A CONC. POST PROJECTING 0.6 FEET ABOVE GROUND
ELEVATION: 1037.799 M (3404.85 FT) FIXED.
- V 124 A U.S.C. & G.S. BRASS DISK LOCATED: 6.5 MILES ALONG THE ATCHISON, TOPEKA & SANTA FE RAILRD. FROM THE STATION AT KINGMAN, MOHAVE COUNTY, AT BERRY SIDING, 350 FEET NORTHEAST OF A SECTION CREW HOUSE, DIRECTLY ACROSS THE TRACK FROM MILEPOST 510, 98 FEET NORTHWEST OF THE CENTER LINE OF THE NORTH TRACK, 2.5 FEET EAST OF A WHITE WOODEN WITNESS POST, AND 2 FEET SOUTHEAST OF THE RIGHT-OF-WAY FENCE. A STANDARD DISK, STAMPED "V 124 1935" AND SET IN THE TOP OF A CONC. POST PROJECTING 0.4 FEET ABOVE GROUND
ELEVATION: 1029.119 M (3376.37 FT) FIXED.
- U 124 A U.S.C. & G.S. BRASS DISK LOCATED: 7.5 MILES NORTHEAST ALONG THE ATCHISON, TOPEKA & SANTA FE RAILWAY FROM THE STATION AT KINGMAN, MOHAVE COUNTY, 200 FEET WEST OF MILEPOST 509, 108 FEET NORTHWEST RAIL OF THE NORTHWEST TRACK, 2 FEET SOUTHEAST OF THE RIGHT-OF-WAY FENCE, AND 2 FEET SOUTHWEST OF A WHITE WOODEN WITNESS POST. A STANDARD DISK, STAMPED "U 124 1935" AND SET IN THE TOP OF A CONC. POST PROJECTING 0.5 FEET ABOVE GROUND. THIS BENCH MARK HAS SUFFERED FROM SUBSIDENCE. THIS MARK NOT HELD FIXED FOR THIS WORK. THE PUBLISHED VALUE IS 1017.860 M (3339.429 FT).
ELEVATION: 1017.836 M (3339.35 FT)
- T 124 A U.S.C. & G.S. BRASS DISK LOCATED: 8.6 MILES NORTHEAST ALONG THE ATCHISON, TOPEKA & SANTA FE RAILWAY FROM THE STATION AT KINGMAN, MOHAVE COUNTY, 152 FEET NORTHWEST OF MILEPOST 508, 110 FEET NORTHWEST RAIL OF THE

SOUTHEAST TRACK, 2 FEET SOUTHEAST OF THE RIGHT-OF-WAY FENCE, AND 2 FEET SOUTHWEST OF A WHITE WOODEN WITNESS POST. A STANDARD DISK, STAMPED "T 124 1935" AND SET IN THE TOP OF A CONC. POST PROJECTING 0.5 FEET ABOVE GROUND. THIS BENCH MARK HAS SUFFERED FROM SUBSIDENCE. THIS MARK NOT HELD FIXED FOR THIS WORK. THE PUBLISHED VALUE IS 1008.696 M (3309.363 FT).
ELEVATION: 1008.667 M (3309.27 FT)

S 124 A U.S.C. & G.S. BRASS DISK LOCATED: 9.5 MILES NORTHEAST ALONG THE ATCHISON, TOPEKA AND SANTA FE RAILWAY FROM THE STATION AT KINGMAN, MOHAVE COUNTY, 190 FEET NORTH OF MILEPOST 507, 99.5 FEET NORTHWEST OF THE CENTERLINE OF THE NORTH TRACK, 2 FEET WEST OF A WHITE WOODEN WITNESS POST, 1 FOOT SOUTH OF THE RIGHT OF WAY FENCE, AND 5 FEET LOWER THAN THE TRACK. A STANDARD DISK, STAMPED "S 124 1935" AND SET IN THE TOP OF A CONCRETE POST PROJECTING 0.5 FOOT ABOVE GROUND. THIS MARK NOT HELD FIXED FOR THIS WORK. THE PUBLISHED VALUE IS 1004.680 M (3296.188 FT)
ELEVATION: 1004.652 M (3296.10 FT)

Q 486 AN N.G.S. 5/8" STEEL ROD IN HANDHOLE "1982" LOCATED: 11.5 MILES NORTHEAST ALONG THE ATCHISON, TOPEKA, AND SANTA FE RAILROAD FROM THE STATION AT KINGMAN, MOHAVE COUNTY, AT RAILROAD MILEPOST 505, 105.0 FEET NORTHWEST OF THE NORTHWEST RAIL, 34.0 FEET NORTHWEST OF THE CENTERLINE OF AN ACCESS ROAD. THE MARK IS 2.0 FEET NORTHEAST FROM A WITNESS POST. THE MARK IS 6.9 FEET BELOW THE TRACK. DATUM USED IS NAVD 88 HENCE THIS MARK NOT HELD FIXED FOR THIS WORK. PUBLISHED NAVD 88 VALUE IS 1000.195 METERS AND ESTIMATED: NAVD88 - NAVD29 = +0.80 METERS.
ELEVATION: 999.383 M (3278.81 FT)

N 124 A U.S.C. & G.S. BRASS DISK LOCATED: 13.5 MILES NORTHEAST ALONG THE ATCHISON, TOPEKA & SANTA FE RAILWAY FROM THE STATION AT KINGMAN, MOHAVE COUNTY, DIRECTLY ACROSS THE TRACK FROM MILEPOST 503, 95 FEET NORTHWEST OF THE NORTH TRACK, AND 3 FEET SOUTH OF A WHITE WOODEN WITNESS POST. A STANDARD DISK, STAMPED "N 124 1935" AND SET IN THE TOP OF A CONC. POST PROJECTING 0.6 FEET ABOVE GROUND.
ELEVATION: 995.133 M (3264.87 FT) FIXED

P 124 A U.S.C. & G.S. BRASS DISK LOCATED: 12.5 MILES NORTHEAST ALONG THE ATCHISON, TOPEKA AND SANTA FE RAILWAY FROM THE STATION AT KINGMAN, MOHAVE COUNTY, 300 FEET NORTH OF MILEPOST 504, 95 FEET NORTHWEST OF THE CENTERLINE OF THE NORTH TRACK, 3 FEET SOUTH OF A WHITE WOODEN WITNESS POST, AND 1 FOOT NORTH OF THE RIGHT OF

WAY FENCE. A STANDARD DISK, STAMPED "P 124 1935" AND SET IN THE TOP OF A CONCRETE POST PROJECTING 0.6 FOOT ABOVE GROUND. THIS MARK NOT HELD FIXED FOR THIS WORK. THE PUBLISHED VALUE IS 997.729 M (3273.383 FT)
ELEVATION: 997.723 M (3273.36 FT)

M-391 A U.S.C. & G.S. BRASS DISK IN CONC. LOCATED 800' ± WEST OF LOUISE AND SAGE, 25' ± EAST OF A BOX CULVERT ON THE NORTH SIDE OF LOUISE.
PUBLISHED N.G.S. DATA NOT USED FOR THIS STATION.
ELEVATION: 1104.871 M (3624.90 FT)

SIGN AZ1 AN N.G.S. BRASS DISK IN CONC. LOCATED 800' ± WEST OF THE INTERSECTION OF LOUISE AND NORTH/SOUTH MID-SECTION LINE 16 T21N R16W. (ON THE NORTH SIDE OF LOUISE)
PUBLISHED N.G.S. DATA NOT USED FOR THIS STATION.
ELEVATION: 1114.499 M (3656.49 FT)

N-391 A U.S.C. & G.S. BRASS DISK IN CONC. LOCATED 485' ± EAST OF LOUISE AND RUNNING IRON, 45' ± NORTH OF C/L LOUISE.
PUBLISHED N.G.S. DATA NOT USED FOR THIS STATION.
ELEVATION: 1124.177 M (3688.24 FT)

95-2-1 A U.S.G.L.O. BRASS CAP "1911" BEING THE CORNER COMMON TO SECTIONS 28, 27, 33, AND 34 T22N R16W, LOCATED NEAR HIGHWAY 66 AND THE EAGLE'S LODGE.
0.3' ABOVE GROUND
ELEVATION: 1020.952 M (3349.57 FT)

95-2-2 A U.S.G.L.O. BRASS CAP "1911" IN A HANDHOLE BEING THE 1/4 CORNER COMMON TO SECTIONS 28 AND 33 T22N R16W, LOCATED AT NORRIE DR. AND NORTHERN AVE.
0.5' BELOW GROUND
ELEVATION: 1017.592 M (3338.55 FT)

06-2-3A A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED AT THE NORTHWEST RETURN OF NORTHERN AVE. AND CASTLE ROCK RD.
ELEVATION: 1014.692 M (3329.04 FT)

95-2-4A A CITY OF KINGMAN 2" BRASS DISK IN A 2.5' LONG 8" DIAMETER PLASTIC PIPE COLLAR SET IN CONC. LOCATED 55' SOUTH OF THE NORTH 1/4 CORNER OF SECTION 32 T22N R16W.
ELEVATION: 1013.758 M (3325.97 FT)

95-2-5 A CITY OF KINGMAN 2" BRASS DISK IN CONC. FIRE HYDRANT PAD LOCATED 235' SOUTH OF NORTHERN AVE. ON THE EAST SIDE OF BANK ST.
ELEVATION: 1018.575 M (3341.77 FT)

- 95-2-6 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED AT BANK ST. AND SIERRA VISTA, 10' NORTH OF C/L SIERRA VISTA PRODUCED ONTO THE EAST SIDE OF BANK ST.
ELEVATION: 1018.554 M (3341.71 FT)
- 95-2-9 A 2" BRASS DISK IN CONC. "M.C.D.E. RLS 13023 1995" LOCATED AT THE INTERSECTION OF SIERRA VISTA AND ADAMS ST.
ELEVATION: 1025.578 M (3364.75 FT)
- 95-2-11 A 2" BRASS DISK IN CONC. "M.C.D.E. RLS 13023 1995" LOCATED AT THE INTERSECTION OF SIERRA VISTA AND VAN NUYS ST.
ELEVATION: 1039.843 M (3411.55 FT)
- 95-2-13 A 2" BRASS DISK IN CONC. "M.C.D.E. RLS 13023 1995" LOCATED AT SIERRA VISTA AND SIERRA ST.
ELEVATION: 1052.854 M (3454.24 FT)
- 95-2-15 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED AT THE NORTHWEST RETURN OF STOCKTON HILL RD. AND GORDON DR. NEXT TO AT&T POST #K25.
ELEVATION: 1045.725 M (3430.85 FT)
- 95-2-16 A CITY OF KINGMAN 2" BRASS DISK TOP OF CURB LOCATED AT THE SOUTHWEST RETURN OF STOCKTON HILL RD. AND KINO AVE.
ELEVATION: 1042.124 M (3419.04 FT)
- ~~95-2-17 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED AT THE SOUTHWEST RETURN OF STOCKTON HILL RD. AND AIRWAY AVE.
ELEVATION: 1040.125 M (3412.48 FT)~~
- 95-2-18 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED AT THE SOUTHWEST RETURN OF STOCKTON HILL RD. AND SYCAMORE AVE.
ELEVATION: 1041.557 M (3417.17 FT)
- 95-2-19A A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED AT THE NORTHWEST RETURN OF STOCKTON HILL RD. AND BEVERLY AVE.
ELEVATION: 1043.747 M (3424.36 FT)
- 95-2-20 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED AT THE SOUTHWEST RETURN OF STOCKTON HILL RD. AND DETROIT AVE.
ELEVATION: 1046.457 M (3433.25 FT)
- 95-2-21 A CITY OF KINGMAN 3" BRASS DISK IN BACK OF SIDEWALK LOCATED AT THE SOUTHWEST RETURN OF STOCKTON HILL RD.

AND ATLANTIC.
ELEVATION: 1049.124 M (3442.00 FT)

95-2-22 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED AT THE SOUTHWEST RETURN OF STOCKTON HILL RD. AND MOTOR AVE.
ELEVATION: 1052.278 M (3452.35 FT)

95-2-23 A CITY OF KINGMAN 3" BRASS DISK IN BACK OF SIDEWALK LOCATED AT THE SOUTHWEST RETURN OF STOCKTON HILL RD. AND GATES AVE.
ELEVATION: 1056.477 M (3466.12 FT)

95-2-24 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED AT THE SOUTHEAST RETURN OF STOCKTON HILL RD. AND PASADENA AVE.
ELEVATION: 1060.569 M (3479.55 FT)

95-2-25 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED AT THE SOUTHEAST RETURN OF STOCKTON HILL RD. AND LOUISE AVE.
ELEVATION: 1070.477 M (3512.06 FT)

95-2-27 AN A.D.O.T. HIGHWAY DIVISION 3" ALUMINUM DISK IN TOP OF CURB "3522.39 1978" LOCATED AT THE SOUTHEAST RETURN OF HUALAPAI MOUNTAIN RD. AND U.S. HIGHWAY 66.
ELEVATION: 1073.636 M (3522.42 FT)

95-2-28 AN A.D.O.T. HIGHWAY DIVISION 3" ALUMINUM DISK IN A CONC. HEADWALL "3525.93 1978" LOCATED ON THE NORTH SIDE OF HUALAPAI MOUNTAIN RD. AND 350' WEST OF HARRISON ST. 15' FROM THE BACK OF CURB.
ELEVATION: 1074.731 M (3526.01 FT)

95-2-29 AN A.D.O.T. HIGHWAY DIVISION 3" ALUMINUM DISK IN TOP OF CURB "95-2-29 3553.89" LOCATED ON THE SOUTH SIDE OF HUALAPAI MOUNTAIN RD. AND 190' SOUTHEAST OF JACKSON ST.
ELEVATION: 1083.256 M (3553.98 FT)

95-2-30 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED AT THE NORTHEAST RETURN OF HUALAPAI MOUNTAIN RD. AND ADAMS ST.
ELEVATION: 1091.616 M (3581.41 FT)

95-2-31 A 2" BRASS DISK IN CONC. BEING THE 1/4 CORNER COMMON TO SECTIONS 19 AND 20 T21N R16W LOCATED 100' SOUTH OF HUALAPAI MOUNTAIN RD. AND EASTERN ST.
ELEVATION: 1098.838 M (3605.10 FT)

95-2-32 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF SOUTH CONC. RETAINING WALL LOCATED AT AN ANGLE POINT NEAR THE

KINGMAN WATER TANK ON THE NORTH SIDE OF HUALAPAI MOUNTAIN RD. IN SECTION 20 T21N R16W.
ELEVATION: 1122.339 M (3682.21 FT)

- 95-2-33 A U.S.G.L.O. BRASS CAP "1911" BEING THE CORNER COMMON TO SECTIONS 20, 21, 28, AND 29, T21N R16W.
0.6' ABOVE GROUND
ELEVATION: 1149.407 M (3771.01 FT)
- 95-2-34 A U.S.G.L.O. BRASS CAP IN CONC. "1911" BEING THE 1/4 CORNER COMMON TO SECTIONS 20 AND 21 T21N R16W LOCATED 450' WEST OF SENECA AND 300' SOUTH OF THE C/L OF DELAWARE PRODUCED ONTO A FENCE LINE.
ELEVATION: 1134.170 M (3721.02 FT)
- 95-2-35 A U.S.G.L.O. BRASS CAP IN CONC. "1911" BEING THE CORNER COMMON TO SECTIONS 16, 17, 20, AND 21 T21N R16W LOCATED AT THE INTERSECTION OF THE WEST TRACT LINE OF HUALAPAI FOOTHILL ESTATES UNIT #2 AND SOUTHERN AVE. 2' OFF OF THE PAVEMENT.
ELEVATION: 1116.661 M (3663.58 FT)
- 95-2-36 A U.S.G.L.O. BRASS CAP IN CONC. BEING THE 1/4 CORNER COMMON TO SECTIONS 17 AND 18 T21N R16W LOCATED IN THE C/L OF PASADENA AVE. PRODUCED WEST OF EASTERN AVE. 2' WEST OF THE EDGE OF PAVEMENT.
0.2' BELOW GROUND
ELEVATION: 1078.753 M (3539.21 FT)
- 95-2-36RP A 1 1/2" ALUMINUM CAP BEING THE SOUTHWEST RP TO THE 1/4 CORNER COMMON TO SECTIONS 18 AND 17 T21N R16W.
ELEVATION: 1078.984 M (3539.97 FT)
- 95-2-37 A CITY OF KINGMAN 2" BRASS DISK IN CONC. LOCATED AT THE NORTHWEST RETURN OF AIRFIELD AVE. AND EASTERN AVE.
ELEVATION: 1068.378 M (3505.17 FT)
- 95-2-38 A CITY OF KINGMAN 2" BRASS DISK IN CONC. HEADWALL ON THE WEST SIDE OF RAILROAD AVE. AND GRADE SEPARATION FOR I-40 UNDER THE EAST-BOUND LANE.
ELEVATION: 1056.698 M (3466.85 FT)
- 95-2-39 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED AT THE SOUTHWEST RETURN OF U.S. HIGHWAY 66 AND AIRFIELD AVE.
ELEVATION: 1062.515 M (3485.93 FT)
- 95-2-40 A CITY OF KINGMAN 2" BRASS DISK IN CONC. BEING THE 1/4 CORNER COMMON TO SECTIONS 7 AND 18 T21N R16W LOCATED ON AIRFIELD AVE. 135' EAST OF CROZIER ST.
ELEVATION: 1058.829 M (3473.84 FT)

- 95-2-42A A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED AT THE SOUTHWEST RETURN OF HARRISON ST. AND MOTOR AVE.
ELEVATION: 1057.671 M (3470.04 FT)
- 95-2-43 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED AT THE SOUTHWEST RETURN OF HARRISON ST. AND BEVERLY AVE.
ELEVATION: 1047.206 M (3435.71 FT)
- 95-2-44 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED ON THE EAST SIDE OF WILLOW RD. 125' NORTH OF AIRWAY AVE. AND WILLOW RD.
ELEVATION: 1037.929 M (3405.27 FT)
- 95-2-45 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED AT THE SOUTHEAST RETURN OF N.WILLOW RD. AND KINO AVE.
ELEVATION: 1030.299 M (3380.24 FT)
- 95-2-46 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED AT THE SOUTHWEST RETURN OF BANK ST. AND GORDON DR.
ELEVATION: 1025.041 M (3362.99 FT)
- 95-2-47 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED ON THE SOUTH SIDE OF POTTER AVE. 30' FROM POTTER AVE. AND STOCKTON HILL RD.
ELEVATION: 1053.284 M (3455.65 FT)
- 95-2-49 A U.S.G.L.O. BRASS CAP IN HANDHOLE "1911" BEING THE 1/4 CORNER COMMON TO SECTIONS 27 AND 28 T22N R16W LOCATED ON THE NORTH SIDE OF THOMPSON AVE. AT THE ANGLE POINT IN THE ROAD.
ELEVATION: 1011.554 M (3318.74 FT)
- 95-2-50 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED 60' NORTH OF THOMPSON AVE. ON THE EAST SIDE OF NORRIE DR.
ELEVATION: 1009.107 M (3310.71 FT)
- 95-2-51 A 1" O.D.I.P. IN HANDHOLE BEING THE 1/4 CORNER COMMON TO SECTIONS 20 AND 29 T22N R16W LOCATED AT MARSHALL DR. AND JAGERSON AVE. 2' NORTHEAST OF A SURVEY MONUMENT SIGN AND GUARD POST.
ELEVATION: 1016.717 M (3335.68 FT)
- 95-2-52A A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB END LOCATED AT THE EAST ENTRANCE TO CERBAT SCHOOL.
ELEVATION: 1032.099 M (3386.14 FT)
- 95-2-53 A 1" O.D.I.P. IN HANDHOLE BEING THE 1/4 CORNER COMMON TO SECTIONS 19 AND 30 T22N R16W LOCATED ON THE NORTH SIDE OF JAGERSON AVE. ACROSS THE STREET FROM 248

JAGERSON AVE. AND SOUTH OF A SURVEY MONUMENT SIGN.
ELEVATION: 1036.542 M (3400.72 FT)

- 95-2-54 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF A CONC. LIGHT POLE BASE LOCATED AT THE WEST ENTRANCE TO MOHAVE COMMUNITY COLLEGE.
ELEVATION: 1048.678 M (3440.54 FT)
- 95-2-55 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CONC. HEADWALL LOCATED ON THE WEST SIDE OF KINGMAN RANCH RD. AT JAGERSON AVE.
ELEVATION: 1056.482 M (3466.14 FT)
- 95-2-56A A CITY OF KINGMAN 2" BRASS DISK IN BACK OF CONC. HANDICAP RAMP LOCATED AT THE NORTHEAST RETURN OF STOCKTON HILL RD. AND NORTHERN AVE.
ELEVATION: 1061.552 M (3482.78 FT)
- 95-2-57 A CITY OF KINGMAN 2" BRASS DISK IN CONC. LOCATED AT THE NORTHEAST RETURN OF NORTHERN AVE. AND VAN NUYS ST.
ELEVATION: 1042.036 M (3418.75 FT)
- 95-2-58 A CITY OF KINGMAN 2" BRASS DISK IN BACK OF CONC. HANDICAP RAMP LOCATED AT THE NORTHEAST RETURN OF NORTHERN AVE. AND LOMITA ST.
ELEVATION: 1028.241 M (3373.49 FT)
- 95-2-59A A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED 30'± SOUTH OF THE NORTH 1/4 CORNER FOR SECTION 5 T21N R16W. (GORDON AVE. BETWEEN PRESCOTT AND EAGLE ROCK)
ELEVATION: 1027.520 M (3371.12 FT)
- 95-2-62 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED AT THE SOUTH ENTRANCE TO THE FREE METHODIST CHURCH NEAR ANSON SMITH RD. AND HARVARD ST.
ELEVATION: 1064.922 M (3493.83 FT)
- 95-2-63 AN A.D.O.T. HIGHWAY DIVISION 3" ALUMINUM DISK IN CONC. "2702+00.01" LOCATED ON THE SOUTH SIDE OF SUNRISE AVE. 300' EAST OF FAIRFAX NEXT TO THE HIGHWAY RIGHT-OF-WAY CHAIN LINK FENCE.
ELEVATION: 1054.262 M (3458.86 FT)
- 95-2-64 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED AT THE NORTHWEST RETURN OF GATES AVE. AND GOLF DR.
ELEVATION: 1062.404 M (3485.57 FT)
- 95-2-65 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED AT THE SOUTHEAST RETURN OF COUNTRY CLUB DR. AND GREENWAY DR.
ELEVATION: 1058.039 M (3471.25 FT)

- 95-2-67 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED AT THE NORTHEAST RETURN OF PASADENA AVE. AND YAVAPAI DR.
ELEVATION: 1093.741 M (3588.38 FT)
- 95-2-68 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED AT THE NORTHEAST RETURN OF AIRWAY AVE. AND CASTLE ROCK RD.
ELEVATION: 1053.398 M (3456.02 FT)
- 95-2-69A A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED AT THE SOUTHEAST RETURN OF PROSPECTOR ST. AND ROMA RD.
ELEVATION: 1065.205 M (3494.76 FT)
- 95-2-71 A CITY OF KINGMAN 2" BRASS DISK IN NORTHWEST CORNER OF CONC. HEADWALL LOCATED AT WILLOW RD. AND MOHAVE CHANNEL BRIDGE.
ELEVATION: 1028.868 M (3375.54 FT)
- 95-2-72 A CITY OF KINGMAN 2" BRASS DISK IN CONC. BEING THE CORNER COMMON TO SECTIONS 4 AND 5 T21N R16W AND SECTIONS 32 AND 33 T22N R16W LOCATED AT GORDON DR. AND CASTLE ROCK RD.
ELEVATION: 1030.708 M (3381.58 FT)
- 95-2-73 A U.S.G.L.O. BRASS CAP IN CONC. BEING THE 1/4 CORNER COMMON TO SECTIONS 5 AND 8 T21N R16W LOCATED IN THE A.D.O.T. RIGHT-OF-WAY AND THE PROD OF AIRWAY AVE. NEAR THE SOUTHWEST CORNER OF THE ARIZONA HIGHWAY DEPARTMENT MAINTENANCE YARD FENCE
ELEVATION: 1047.736 M (3437.45 FT)
- 95-2-74 AN ARIZONA HIGHWAY DEPARTMENT 3" BRASS DISK IN TOP OF CURB "1961 EL 3491.37" LOCATED NEAR THE SOUTHEAST RETURN OF HOOVER ST. AND ANDY DEVINE AVE.
ELEVATION: 1064.170 M (3491.36 FT)
- 95-2-75 A CITY OF KINGMAN 3" BRASS DISK IN TOP OF CURB LOCATED ON THE SOUTHEAST CORNER OF THE TRAFFIC CONTROL ISLAND IN THE INTERSECTION OF FAIRGROUNDS BLVD. AND KINGMAN AVE.
ELEVATION: 1064.399 M (3492.12 FT)
- 95-2-77 A CITY OF KINGMAN 2" BRASS DISK IN CONC. LOCATED IN THE NORTHWEST WING WALL OF THE MOHAVE CHANNEL BRIDGE ON THOMPSON AVE. 0.1 MI. ± WEST OF THE 1/4 CORNER COMMON TO SECTIONS 28 AND 29 T22N. R16W.
ELEVATION: 1010.150 M (3314.13 FT)
- 95-2-78 A CITY OF KINGMAN 2" BRASS DISK IN CONC. WITH A 2.5'

LONG 8" DIAMETER PVC PIPE LOCATED 100' ± WEST OF CASTLE
ROCK RD. AND SWAN DR. SITUATE IN SECTION 32 T22N R16W.
ELEVATION: 1021.738 M (3352.15 FT)

~~95-2-79 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED
ON THE EAST SIDE OF WILLOW ST. 40' SOUTH OF THE END OF
CURB AT GORDON DR. AND WILLOW ST. ACROSS FROM THE C/L
POINT OF TANGENCY.
ELEVATION: 1029.521 M (3377.69 FT)~~

95-2-82 A CITY OF KINGMAN 2" BRASS DISK IN BACK OF CONC.
HANDICAP RAMP LOCATED AT THE SOUTHEAST RETURN OF
BURBANK ST. AND AIRWAY AVE.
ELEVATION: 1036.959 M (3402.09 FT)

95-2-83 AN ARIZONA HIGHWAY DEPARTMENT 3" BRASS DISK IN CONC.
"STA. 2796+00.50" LOCATED 120 FT. NORTHWEST OF BANKS
ST. AND BEVERLY AVE. AND 2.5' WEST OF AN ANGLE IRON
GUARD POST
ELEVATION: 1049.228 M (3442.34 FT)

95-2-84 A CITY OF KINGMAN 3" BRASS DISK IN CONC. "RLS 23391"
BEING THE 1/4 CORNER COMMON TO SECTIONS 29 AND 30 T22N
R16W LOCATED NEAR BANKS ST. AND THOMPSON AVE.
ELEVATION: 1022.929 M (3356.06 FT)

95-2-85A A CITY OF KINGMAN 2" BRASS DISK IN CONC. FIRE HYDRANT
PAD LOCATED AT THE SOUTHWEST RETURN OF JAGERSON AVE.
AND BANKS ST.
ELEVATION: 1025.451 M (3364.33 FT)

95-2-86 A U.S.G.L.O. BRASS CAP BEING THE CORNER COMMON TO
SECTIONS 20, 21, 28, AND 29 T22N R16W LOCATED AT CASTLE
ROCK RD. PRODUCED AND JAGERSON AVE.
1' ± ABOVE GROUND
ELEVATION: 1010.004 M (3313.65 FT)

95-2-87 A CITY OF KINGMAN 3" BRASS DISK IN CONC. "1997 RLS
23391" BEING THE 1/4 CORNER COMMON TO SECTIONS 20 AND
21 T22N R16W. 3' EAST OF A GUARD POST AND SIGN.
ELEVATION: 1012.901 M (3323.16 FT)

95-2-90 AN ARIZONA HIGHWAY DEPARTMENT 3" BRASS DISK (NO STATION
OR ELEVATION SHOWN) LOCATED IN TOP OF HEADWALL ON EAST
BOUND LANE OF U.S. HIGHWAY 66 NEAR GORDON DR. PRODUCED
100' ± EAST OF THE GORDON DR. EXIT.
ELEVATION: 1032.751 M (3388.28 FT)

95-2-91A A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED
25' ± NORTH OF END OF CURB (WEST SIDE CASTLE ROCK) AND
HIGHWAY 66.

ELEVATION: 1036.190 M (3399.57 FT)

- 95-2-92A AN ARIZONA HIGHWAY DEPARTMENT 3" ALUMINUM DISK IN TOP OF CONC. HEADWALL "COK BM 95-2-92A 2003" LOCATED IN MEDIAN OF HIGHWAY 66 50' ± SOUTHWEST OF THE HORIZON ST. CROSS-OVER.
ELEVATION: 1043.400 M (3423.22 FT)
- 95-2-93 AN ARIZONA HIGHWAY DEPARTMENT 3" BRASS DISK IN TOP OF CURB "EL=3458.82" LOCATED ON THE EAST BOUND LANE OF U.S. HIGHWAY 66, 50' EAST OF THE I-40 INTERCHANGE STRUCTURES AND WEST OF THE BURGER KING RESTAURANT.
ELEVATION: 1054.259 M (3458.85 FT)
- 95-2-94 AN ARIZONA HIGHWAY DEPARTMENT 3" BRASS DISK IN TOP OF CURB "EL=3499.19 1961" LOCATED ON THE EAST BOUND LANE OF U.S. HIGHWAY 66 NEAR THE C/L OF PASADENA AVE. PRODUCED.
ELEVATION: 1066.545 M (3499.16 FT)
- 95-2-95 A CITY OF KINGMAN 2" BRASS DISK IN CONC. "RLS 23391" LOCATED AT RAILROAD AVE. AND EAGLE ROCK RD.
ELEVATION: 1054.268 M (3458.88 FT)
- 95-2-95I OLD BM 80-7 BEING AN A.H.D. 3" BRASS DISK IN TOP OF EAST CURB OF U.S. HIGHWAY 66 LOCATED 300' ± SOUTH OF THE NORTH ENTRANCE TO LEWIS KINGMAN PARK.
ELEVATION: 1066.920 M (3500.39 FT)
- 95-2-96 A CITY OF KINGMAN 2" BRASS DISK IN CONC. "RLS 23391" LOCATED AT RAILROAD AVE. AND CALUMET AVE.
ELEVATION: 1056.823 M (3467.26 FT)
- 95-2-97 A CITY OF KINGMAN 2" BRASS DISK IN CONC. "RLS 23391" LOCATED AT RAILROAD AVE. AND N. BROOK ST. (EAST OF THE I-40 INTERCHANGE STRUCTURE).
ELEVATION: 1057.352 M (3469.00 FT)
- 95-2-98 A CITY OF KINGMAN 2" BRASS DISK IN CONC. "RLS 15341" LOCATED AT WASHINGTON ST. AND TATUM AVE.
ELEVATION: 1067.124 M (3501.06 FT)
- 95-2-99 A CITY OF KINGMAN 2" BRASS DISK IN CONC. "RLS 23391" LOCATED AT LOMITA ST. AND THOMPSON AVE.
0.4' BELOW SURFACE
ELEVATION: 1030.515 M (3380.95 FT)
- 95-2-100 AN M.C.D.E. 2" BRASS DISK IN CONC. "RLS 13023 POC 1995" LOCATED AT THOMPSON AVE. AND COLLEGE DR.
ELEVATION: 1041.594 M (3417.30 FT)

- 95-2-101 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED NEAR SAGUARO CIR. AND WESTERN AVE. (ON THE EAST SIDE OF WESTERN AVE).
ELEVATION: 1046.709 M (3434.08 FT)
- 95-2-102 A CITY OF KINGMAN 2" BRASS DISK IN CONC. "RLS 23391" LOCATED AT GOLF DR. AND COUNTRY CLUB DR. 3' ± NORTHWEST OF A TRAFFIC CONTROL ISLAND.
ELEVATION: 1053.596 M (3456.67 FT)
- 95-2-103A A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED 20' WEST OF THE SOUTHWEST RETURN AT WESTERN AVE. AND SUNRISE AVE.
ELEVATION: 1051.610 M (3450.16 FT)
- 95-2-104 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED AT THE SOUTHEAST RETURN OF EASTERN AVE. AND SOUTHERN AVE.
ELEVATION: 1090.713 M (3578.45 FT)
- 99-2-105 A CITY OF KINGMAN 2" BRASS DISK IN CONC. CUT-OFF WALL LOCATED AT THE SOUTHEAST RETURN OF SENECA ST. AND DELAWARE DR.
ELEVATION: 1132.889 M (3716.82 FT)
- 99-2-106 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED AT THE SOUTHEAST RETURN OF SOUTHERN AVE. AND IROQUOIS DR.
ELEVATION: 1130.053 M (3707.52 FT)
- 99-2-107A A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED AT THE NORTHWEST RETURN OF SOUTHERN AVE. AND MUSTANG SPRINGS RD.
ELEVATION: 1140.281 M (3741.07 FT)
- 99-2-108 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED AT THE SOUTHEAST RETURN OF RISING SUN AVE. AND HAY HOOK ST.
ELEVATION: 1141.592 M (3745.37 FT)
- 99-2-109 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED AT THE NORTHEAST RETURN OF RISING SUN AVE. AND TRIANGLE S ST.
ELEVATION: 1145.765 M (3759.06 FT)
- 99-2-110 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED AT THE SOUTHWEST RETURN OF TRIANGLE S AND LOUISE AVE.
ELEVATION: 1123.504 M (3686.03 FT)
- 99-2-111 A CITY OF KINGMAN 2" BRASS DISK IN CONC. CUT-OFF WALL LOCATED AT THE NORTHWEST RETURN OF CHEYENNE AVE. AND

- DELAWARE DR.
ELEVATION: 1168.729 M (3834.41 FT)
- 99-2-112 A CITY OF KINGMAN 2" BRASS DISK ON THE SOUTHWEST CORNER OF CONC. SLAB FOR WELL HEADS AT CITY TANK SITE LOCATED ON CHEYENNE AVE. IN HUALAPAI FOOTHILLS ESTATES.
ELEVATION: 1185.383 M (3889.04 FT)
- 99-2-113 A CITY OF KINGMAN 2" BRASS DISK ON CONC. CUT-OFF WALL LOCATED AT THE NORTHEAST RETURN OF PAWNEE DR. AND DAKOTA RD.
ELEVATION: 1149.415 M (3771.04 FT)
- 99-2-114 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED AT THE NORTHWEST RETURN OF BERRY AVE. AND YAVAPAI DR.
ELEVATION: 1084.848 M (3559.21 FT)
- 99-2-115 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED AT THE SOUTHWEST RETURN OF YAVAPAI DR. AND AIRFIELD AVE.
ELEVATION: 1076.402 M (3531.50 FT)
- 99-2-116 A U.S.G.L.O. BRASS CAP "1911" BEING THE 1/4 CORNER COMMON TO SECTIONS 17 AND 20 T21N R16W.
1' ± BELOW GROUND
ELEVATION: 1103.340 M (3619.87 FT)
- 99-2-117 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB END LOCATED ON EAST SIDE OF ELLERMAN DR. SOUTHEAST OF PASADENA.
ELEVATION: 1086.429 M (3564.39 FT)
- 99-2-118 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED ON EAST SIDE OF DELAWARE AVE. BY A FIRE HYDRANT IN FRONT OF 2154 DELAWARE.
ELEVATION: 1138.473 M (3735.14 FT)
- 99-2-119 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED AT THE SOUTHWEST RETURN OF SOUTHERN AVE. AND MONROE ST.
ELEVATION: 1080.789 M (3545.89 FT)
- 99-2-120 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED AT THE SOUTHWEST RETURN OF SOUTHERN AVE. AND VAN BUREN ST.
ELEVATION: 1074.387 M (3524.88 FT)
- 99-2-121 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED AT THE NORTHEAST RETURN OF ITALIA AND MONTE SILVANO AVE.
ELEVATION: 1074.828 M (3526.33 FT)

- 99-2-122 A CITY OF KINGMAN 2" BRASS DISK IN CONC. FIRE HYDRANT PAD LOCATED AT THE SOUTHEAST CORNER OF PACIFIC AVE. AND TANNER (N. TUCKER ST.)
ELEVATION: 1064.591 M (3492.75 FT)
- 99-2-123 A CITY OF KINGMAN 2" BRASS DISK BEING THE 1/4 CORNER COMMON TO SECTIONS 9 AND 4 T21N R16W IN C/L AIRWAY AVE.
ELEVATION: 1058.368 M (3472.33 FT)
- 99-2-124 A CITY OF KINGMAN 2" BRASS DISK IN CONC. "RLS 8904" BEING THE 1/4 CORNER COMMON TO SECTIONS 3 AND 4 T21N R16W.
ELEVATION: 1051.147 M (3448.64 FT)
- 99-2-125 A U.S.G.L.O. 3" BRASS CAP "1911" BEING THE CORNER COMMON TO SECTIONS 4 AND 3 T21N R16W AND 33 AND 34 T22N R16W FLUSH W/GROUND
ELEVATION: 1042.192 M (3419.26 FT)
- 99-2-126 A 3" PIPE CAP IN CONC. "M.C.D.E. RLS 8904" BEING THE 1/4 CORNER COMMON TO SECTIONS 33 AND 34 T22N R16W.
0.5' ABOVE GROUND
ELEVATION: 1031.389 M (3383.82 FT)
- 99-2-127 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB (2' ± FROM END) LOCATED AT SOUTHWEST CORNER OF FRANKLIN AND LOUISE.
ELEVATION: 1094.970 M (3592.41 FT)
- 99-2-128 A CITY OF KINGMAN 2" BRASS DISK IN TOP OF CURB LOCATED 12.5' FROM END (SOUTH SIDE OF LOUISE AVE.) AT THE WEST END OF RANCHO SANTA FE SUBDIVISION.
ELEVATION: 1120.750 M (3676.99 FT)
- 00-2-129 A U.S.C. & G.S. 3 1/2" BRASS CAP IN CONC. "WALAPAI SW BASE 1947"
ELEVATION: 1011.523 M (3318.64 FT)
- 00-2-130 A U.S.G.L.O. BRASS CAP IN CONC. "1911" BEING THE CORNER COMMON TO SECTIONS 22, 23, 27, AND 26 T22N R16W.
FLUSH W/GROUND
ELEVATION: 1009.829 M (3313.08 FT)
- 00-2-131 A 3 1/2" BRASS DISK IN CONC. STAMPED "A" KINGMAN NGS CALIBRATION BASELINE 1986.
ELEVATION: 1007.291 M (3304.75 FT)
- 00-2-132 A 3 1/2" BRASS DISK IN CONC. STAMPED "B" KINGMAN NGS CALIBRATION BASELINE 1986.
ELEVATION: 1006.703 M (3302.82 FT)

- 00-2-133 A 3 1/2" BRASS DISK IN CONC. STAMPED "C" KINGMAN NGS
CALIBRATION BASELINE 1986.
ELEVATION: 1005.831 M (3299.96 FT)
- 00-2-134 A 3 1/2" BRASS DISK IN CONC. STAMPED "D" KINGMAN NGS
CALIBRATION BASELINE 1986.
ELEVATION: 1004.254 M (3294.79 FT)
- 00-2-135 A 2" PIPE CAP "M.C.D.E. 1975 RLS 8904" BEING THE 1/4
CORNER COMMON TO SECTIONS 14 AND 13 T22N R16W.
FLUSH W/GROUND
ELEVATION: 1002.165 M (3287.94 FT)
- 00-2-136 AN A.H.D. 3" BRASS CAP IN SOUTH HEADWALL OF BOX CULVERT
"EL 3284.41" LOCATED ON HIGHWAY 66, 200' ± EAST OF THE
ROAD TO THE WASTE WATER TREATMENT FACILITY.
ELEVATION: 1001.065 M (3284.33 FT)
- 00-2-137 A U.S.G.L.O. BRASS CAP "1911" BEING THE 1/4 CORNER
COMMON TO SECTIONS 12 AND 13 T22N R16W.
1' ± ABOVE GROUND
ELEVATION: 999.950 M (3280.67 FT)
- 00-2-138 A 1 1/2" ALUMINUM CAP IN HANDHOLE "RLS 8904 P.O.S.L."
BEING THE INTERSECTION OF THE WEST RAILROAD R/W AND THE
NORTH 1/2 OF THE EAST LINE OF SECTION 12 T22N R16W.
ELEVATION: 999.094 M (3277.86 FT)
- 00-2-139 A U.S.G.L.O. BRASS CAP BEING THE CORNER COMMON TO
SECTIONS 31 AND 32 T23N R15W, 6 AND 5 T22N R15W.
1.3' ± ABOVE GROUND
ELEVATION: 992.205 M (3255.26 FT)
- 00-2-140 A U.S.G.L.O. BRASS CAP "1911" BEING THE 1/4 CORNER
COMMON TO SECTIONS 31 T23N AND 6 T22N R15W.
1.1' ± ABOVE GROUND
ELEVATION: 985.850 M (3234.41 FT)
- 00-2-141 A U.S.G.L.O. BRASS CAP IN CONC. "1911" BEING THE CORNER
COMMON TO SECTIONS 36 T23N R16W, 31 T23N R15W, 1 T22N
R16W, AND 6 T22N R15W.
1.2' ABOVE GROUND
ELEVATION: 978.910 M (3211.64 FT)
- 00-2-142 A U.S.G.L.O. BRASS CAP IN CONC. "1911" BEING THE 1/4
CORNER COMMON TO SECTIONS 36 T23N R16W AND 1 T22N R16W.
FLUSH W/GROUND
ELEVATION: 973.146 M (3192.73 FT)
- 00-2-143 A U.S.G.L.O. BRASS CAP IN CONC. "1911" BEING THE CORNER
COMMON TO SECTIONS 35 AND 36 T23N, 2 AND 1 T22N R16W.

- 0.9' ± ABOVE GROUND
ELEVATION: 970.650 M (3184.54 FT)
- 00-2-144 A U.S.G.L.O. BRASS CAP IN CONC. "1911" BEING THE 1/4
CORNER COMMON TO SECTIONS 35 T23N AND 2 T22N R16W.
0.4' ABOVE GROUND
ELEVATION: 977.613 M (3207.39 FT)
- 00-2-145 A U.S.G.L.O. BRASS CAP IN CONC. "1911" BEING THE CORNER
COMMON TO SECTIONS 34 AND 35 T23N, 3 AND 2 T22N R16W.
0.9' ± ABOVE GROUND
ELEVATION: 989.872 M (3247.61 FT)
- 00-2-146 A U.S.G.L.O. BRASS CAP IN CONC. "1911" BEING THE 1/4
CORNER COMMON TO SECTIONS 34 T23N AND 3 T22N R16W.
FLUSH W/GROUND
ELEVATION: 1002.970 M (3290.58 FT)
- 00-2-147 A U.S.G.L.O. BRASS CAP IN CONC. "1911" BEING THE CORNER
COMMON TO SECTIONS 33 AND 34 T23N, 4 AND 3 T22N R16W.
0.1' ± ABOVE GROUND
ELEVATION: 1017.407 M (3337.94 FT)
- 00-2-148 A U.S.G.L.O. BRASS CAP IN CONC. "1911" BEING THE 1/4
CORNER COMMON TO SECTIONS 33 T23N AND 4 T22N R16W.
1' ± BELOW GROUND
ELEVATION: 1031.466 M (3384.07 FT)
- 00-2-149 A U.S.G.L.O. BRASS CAP IN CONC. "1911" BEING THE CORNER
COMMON TO SECTIONS 32 AND 33 T23N, 5 AND 4 T22N R16W.
1.5' ± BELOW GROUND
ELEVATION: 1046.282 M (3432.68 FT)
- 00-2-150 A U.S.G.L.O. BRASS CAP IN CONC. "1911" BEING THE 1/4
CORNER COMMON TO SECTIONS 32 T23N AND 5 T22N R16W.
0.2' ± ABOVE GROUND
ELEVATION: 1060.490 M (3479.29 FT)
- 00-2-151 A 3" BRASS CAP IN HANDHOLE "M.C.D.E. RLS 10343 1999"
BEING THE CORNER COMMON TO SECTIONS 31 AND 32 T23N, 6
AND 5 T22N R16W.
0.6' BELOW GROUND TO LID
ELEVATION: 1073.731 M (3522.73 FT)
- 00-2-152 A U.S.G.L.O. BRASS CAP IN CONC. "1911" BEING THE 1/4
CORNER COMMON TO SECTIONS 31 T23N AND 6 T22N R16W.
0.4' ± BELOW GROUND
ELEVATION: 1088.819 M (3572.23 FT)
- 00-2-153 A 2" ALUMINUM CAP IN CONC. "M.C.D.E. CA4 1999 RLS
10343" LOCATED 100' ± SOUTH OF CALLE ALAMO AND AVENIDA

CHOLUTECA.

ELEVATION: 1103.108 M (3619.11 FT)

- 00-2-154 A CITY OF KINGMAN 2" BRASS CAP IN CONC. "BM" LOCATED AT
SOUTHWEST RETURN OF CALLE ALAMO AND AVENIDA RAMIREZ.
ELEVATION: 1111.896 M (3647.95 FT)
- 00-2-156 A 3" BRASS CAP IN BEDROCK "SAM II GPS" LOCATED 150' ±
WEST OF AVENIDA RAMIREZ AND CALLE DIMAS.
ELEVATION: 1104.814 M (3624.71 FT)
- 00-2-157 A 2" BRASS CAP IN CONC. "CK BM" LOCATED 100' ± SOUTH OF
AVENIDA RAMERIZ AND CALLE CASTANO.
ELEVATION: 1086.269 M (3563.87 FT)
- 00-2-158RP A 1 1/2" ALUMINUM CAP "RLS 23960" BEING A 75' RP (TO
THE SOUTHWEST) FOR THE EAST 1/4 CORNER OF SECTION 12
T22N R17W.
FLUSH WITH GROUND
ELEVATION: 1089.859 M (3575.65 FT)
- 00-2-159 A B.L.M. BRASS CAP IN CONC. "1955" BEING THE CORNER
COMMON TO SECTIONS 12 AND 13 T22N R17W (ON THE RANGE
LINE).
0.4' ± ABOVE GROUND
ELEVATION: 1094.513 M (3590.91 FT)
- 00-2-160 A U.S.G.L.O. BRASS CAP IN CONC. "1911" BEING THE
CLOSING CORNER COMMON TO SECTIONS 7 AND 18 T22N R16W.
0.5' BELOW GROUND
ELEVATION: 1091.986 M (3582.62 FT)
- 00-2-161 A B.L.M. BRASS CAP "1955" BEING THE EAST 1/4 CORNER OF
SECTION 13 T22N R17W.
0.5' ± ABOVE GROUND
ELEVATION: 1092.890 M (3585.59 FT)
- 00-2-162 A B.L.M. BRASS CAP "1955" BEING THE CORNER COMMON TO
SECTIONS 13 AND 24 T22N R17W (ON THE RANGE LINE).
0.4' ± ABOVE GROUND
ELEVATION: 1084.580 M (3558.33 FT)
- 00-2-163A A U.S.G.L.O. BRASS CAP "1911" BEING THE CLOSING CORNER
COMMON TO SECTIONS 18 AND 19 T21N R16W.
FLUSH W/ GROUND
ELEVATION: 1080.535 M (3545.06 FT)
- 00-2-164 A B.L.M. BRASS CAP "1955" BEING THE EAST 1/4 CORNER OF
SECTION 24 T22N R17W.
0.4' ± ABOVE GROUND
ELEVATION: 1075.685 M (3529.14 FT)

- 00-2-165 A B.L.M. BRASS CAP "1955" BEING THE CORNER COMMON TO SECTIONS 24 AND 25 T22N R17W (ON THE RANGE LINE).
0.2' ± ABOVE GROUND
ELEVATION: 1066.596 M (3499.32 FT)
- 00-2-166 A 2" BRASS CAP ON 1/2" BOLT LOCATED AT THE SOUTH END OF SIGN BASE AT THE WEST END OF JEFFERSON ST. (BASE OF RADAR HILL).
ELEVATION: 1101.420 M (3613.58 FT)
- 00-2-167 A U.S.G.L.O. BRASS CAP IN CONC. "1911" BEING THE 1/4 CORNER COMMON TO SECTIONS 27 AND 34 T22N R16W.
FLUSH W/GROUND
ELEVATION: 1023.373 M (3357.52 FT)
- 00-2-168 A 3" BRASS CAP IN CONC. "20208 (RADAR) U.S. NAVY 1973" LOCATED AT TOP RADAR HILL 200' ± SOUTH OF BUILDINGS.
ELEVATION: 1148.349 M (3767.54 FT)
- 00-2-169 A 3" U.S.C. & G.S. BRASS CAP "TRIANGLE STA. KINGMAN 1947" LOCATED AT THE TOP OF RADAR HILL.
ELEVATION: 1151.571 M (3778.11 FT)
- 01-2-171 A 3" TAG AND MONEL RIVET "Q 262 COMPASS ROSE 1945" BEARING S70°36'49"E AND 350.33' FROM THE NORTHWEST CORNER OF SECTION 35 T22N R16W.
ELEVATION: 1029.290 M (3376.93 FT)
- 01-2-172 A 3" BRASS CAP IN CONC. "M.C.D.E. 1980" BEING THE 1/4 CORNER COMMON TO SECTIONS 26 AND 35 T22N R16W.
ELEVATION: 1034.141 M (3392.84 FT)
- 01-2-173 A 3" U.S.C. & G.S. BRASS CAP IN CONC. "STA. AZ AP 1961" LOCATED 75' ± SOUTHEAST CORNER OF KINGMAN AIRPORT RUNWAY 3 NORTH.
ELEVATION: 1039.676 M (3411.00 FT)
- 01-2-174 A U.S.G.L.O. BRASS CAP IN CONC. "1911" BEING THE CORNER COMMON TO SECTIONS 26, 25, 35, AND 36 T22N R16W.
FLUSH W/GROUND
ELEVATION: 1041.594 M (3417.30 FT)
- 01-2-175 A 1/2" ALUMINUM ROD IN HANDHOLE BEING THE N.G.S. GPS POINT I G M A (HARN) 1996, BEARING S48°05'W AND 1245' ± FROM THE NORTH 1/4 CORNER SECTION 36 T22N R16W.
ELEVATION: 1051.320 M (3449.21 FT)
- 01-2-176 A 2 1/2" O.D. PIPE CAP "M.C.D.E. RLS 13023 1980" BEING THE 1/4 CORNER COMMON TO SECTIONS 25 AND 36 T22N R16W.
0.6' ± ABOVE GROUND

ELEVATION: 1051.690 M (3450.42 FT)

- 01-2-177 A U.S.G.L.O. BRASS CAP IN CONC. "1911" BEING THE CORNER COMMON TO SECTIONS 25 AND 36 R16W, 30 AND 31 R15W T22N. FLUSH W/GROUND
ELEVATION: 1061.187 M (3481.58 FT)
- 01-2-178 A U.S.G.L.O. BRASS CAP IN CONC. BEING THE 1/4 CORNER COMMON TO SECTIONS 36 R16W AND 31 R15W T22N.
0.3' ± BELOW GROUND
ELEVATION: 1074.553 M (3525.43 FT)
- 01-2-179 A U.S.G.L.O. BRASS CAP IN CONC. "1911" BEING THE CORNER COMMON TO SECTIONS 36 T22N R16W, 31 T22N R15W, 1 T21N R16W, AND 6 T21N R15W.
FLUSH W/GROUND
ELEVATION: 1089.950 M (3575.94 FT)
- 01-2-180 A 1 1/2" ALUMINUM CAP IN HANDHOLE "RLS 8904" BEING THE 1/4 CORNER COMMON TO SECTIONS 36 T22N AND 1 T21N R16W.
1.5' ± BELOW LID.
ELEVATION: 1075.342 M (3528.02 FT)
- 02-2-181 A U.S.G.L.O. BRASS CAP IN CONC. "1911" BEING THE CORNER COMMON TO SECTIONS 35 AND 36 T22N, 2 AND 1 T21N R16W.
0.4' ABOVE GROUND
ELEVATION: 1062.843 M (3487.01 FT)
- 02-2-182 A U.S.G.L.O. BRASS CAP IN CONC. "1911" BEING THE 1/4 CORNER COMMON TO SECTIONS 35 T22N AND 2 T21N R16W.
0.2' ± ABOVE GROUND
ELEVATION: 1054.406 M (3459.33 FT)
- 02-2-183 A U.S.G.L.O. BRASS CAP IN CONC. "1911" BEING THE CORNER COMMON TO SECTIONS 34 AND 35 T22N, 3 AND 2 T21N R16W.
FLUSH W/GROUND
ELEVATION: 1048.846 M (3441.09 FT)
- 02-2-184 A 1" O.D. PIPE W/TAG "P.E. 1855" BEING THE 1/4 CORNER COMMON TO SECTIONS 34 T22N AND 3 T21N R16W.
0.1' ± ABOVE GROUND
ELEVATION: 1046.349 M (3432.90 FT)
- 02-2-185 A 2" BRASS CAP IN TOP OF CURB "C.O.K 02-2-185" LOCATED AT THE NORTHWEST RETURN OF STOCKTON HILL RD. AND SIERRA VISTA DR.
ELEVATION: 1056.695 M (3466.84 FT)
- 02-2-186A A U.S.G.L.O. BRASS CAP "1911" BEING THE 1/4 CORNER COMMON TO SECTIONS 17 AND 16 T21N R16W.
0.1' ± ABOVE GROUND

ELEVATION: 1098.572 M (3604.23 FT)

- 02-2-187 A U.S.G.L.O. BRASS CAP IN CONC. "1911" BEING THE CORNER COMMON TO SECTIONS 21, 22, 28, AND 27 T21N R16W.
0.3' ± ABOVE GROUND
ELEVATION: 1189.831 M (3903.64 FT)
- 02-2-188 A U.S.G.L.O. BRASS CAP "1911" BEING THE 1/4 CORNER COMMON TO SECTIONS 21 AND 22 T21N R16W.
0.1' ± ABOVE GROUND
ELEVATION: 1167.202 M (3829.40 FT)
- 03-2-189 A B.L.M. BRASS CAP "1955" BEING THE 1/4 CORNER COMMON TO SECTIONS 13 AND 24 T22N R17W.
0.2' BELOW GROUND
ELEVATION: 1104.634 M (3624.12 FT)
- 03-2-190 A B.L.M. BRASS CAP IN CONC. "1955" BEING THE CORNER COMMON TO SECTIONS 14, 13, 23, AND 24 T22N R17W.
0.5 FT. ABOVE GROUND
ELEVATION: 1127.107 M (3697.85 FT)
- 03-2-191 A 2" BRASS DISK "CK" IN TOP CURB. LOCATED 1' ± SOUTHWEST OF CONC. DRAIN NORTH OF NORTH DRIVEWAY TO AZ GAME AND FISH DEPT.
ELEVATION: 1084.082 M (3556.69 FT)
- 03-2-192 AN A.H.D. 3" BRASS DISK "POC STA. 2849+85.57" LOCATED AT SOUTH R/W I-40 AND SECTION LINE COMMON TO 8 AND 9 T21N R16W.
ELEVATION: 1069.914 M (3510.21 FT)
- 03-2-193 A 3" BRASS DISK "CK" LOCATED AT THE INTERSECTION OF SOUTH R/W I-40 AND C/L CENTRAL AVE.
FLUSH WITH GROUND
ELEVATION: 1062.537 M (3486.01 FT)
- 03-2-194 A 3" BRASS DISK "RLS 8904 RESET 1990" BEING THE 1/4 CORNER COMMON TO SECTIONS 3 AND 10 T21N R16W.
1' +/- BELOW GROUND
ELEVATION: 1068.818 M (3506.61 FT)
- 03-2-195 A 3/4" I.D. IRON PIPE IN CONC. LOCATED 35' ± SOUTHEAST OF C1/4 CORNER SECTION 10 T21N R16W.
FLUSH WITH GROUND
ELEVATION: 1084.091 M (3556.72 FT)
- 03-2-196 AN A.H.D. 3" BRASS DISK IN CONC. LOCATED AT THE INTERSECTION OF NORTH R/W I-40 AND SECTION LINE COMMON TO 10 AND 15 T21N R16W.
FLUSH WITH GROUND

ELEVATION: 1104.565 M (3623.89 FT)

- 04-2-197 A 2" BRASS CAP IN CONC. "CK BM" LOCATED IN THE BASE OF THE AIRPORT CONTROL TOWER (SOUTHWEST LEG) 96 M ± SOUTHEAST OF MOHAVE AIRPORT DR. AND FLIGHTLINE ST.
ELEVATION: 1031.897 M (3385.48 FT)
- 04-2-198 A 2" BRASS CAP IN CONC."CK BM" LOCATED 25' ± NORTH OF GATE #7 TO B.L.M. AVIATION FACILITY (9990 FLIGHTLINE) AND 2' WEST OF A FENCE.
ELEVATION: 1026.387 M (3367.40 FT)
- 04-2-200 A 2" BRASS CAP IN TOP OF CURB "CK BM" LOCATED AT THE SOUTHWEST RETURN OF MOHAVE AIRPORT DR. AND INDUSTRIAL BLVD.
ELEVATION: 1011.762 M (3319.42 FT)
- 04-2-201 A 2" BRASS CAP IN CONC. "CK BM" LOCATED NEAR THE NORTHWEST CORNER OF A BLOCK WALL FOR A SEWER LIFT STATION, 170' ± SOUTHWEST OF INDUSTRIAL BLVD. AND SANTA FE ST.
ELEVATION: 1017.123 M (3337.01 FT)
- 04-2-202 A U.S.G.L.O. BRASS CAP IN CONC. BEING THE 1/4 CORNER COMMON TO SECTIONS 9 AND 16 T21N R16W.
FLUSH WITH NATURAL GROUND
ELEVATION: 1090.147 M (3576.59 FT)
- 04-2-203 A U.S.G.L.O. BRASS CAP IN CONC. BEING THE CORNER COMMON TO SECTIONS 9, 10, 15, AND 16 T21N R16W.
FLUSH WITH NATURAL GROUND
ELEVATION: 1096.080 M (3596.06 FT)
- 04-2-204 A U.S.G.L.O. BRASS CAP IN CONC. BEING THE 1/4 CORNER COMMON TO SECTIONS 15 AND 16 T21N R16W.
FLUSH WITH NATURAL GROUND
ELEVATION: 1118.607 M (3669.96 FT)
- 04-2-205 A CITY OF KINGMAN 2" BRASS DISK IN WATER VALVE CONC. LOCATED 17' ± NORTH OF THE WATER STORAGE TANK ROUGHLY HALFWAY BETWEEN THE NORTHWEST AND N 1/4 OF SECTION 19 T22N R16W.
ELEVATION: 1065.995 M (3497.35 FT)
- 04-2-206 A U.S.G.L.O. BRASS CAP IN CONC. BEING THE 1/4 CORNER COMMON TO SECTIONS 18 AND 19 T22N R16W.
FLUSH WITH NATURAL GROUND
ELEVATION: 1049.172 M (3442.16 FT)
- 04-2-207 A U.S.G.L.O. BRASS CAP IN CONC. BEING THE CORNER COMMON TO SECTIONS 17, 18, 19, AND 20 T22N R16W.

0.4' ± BELOW SURFACE
ELEVATION: 1035.264 M (3396.53 FT)

- 04-2-208 A 1 1/2" ALUMINUM CAP IN CONC. "M.A.D. 13 RLS 10343"
LOCATED 35' ± SOUTH AND 60' ± WEST OF THE 1/4 CORNER
COMMON TO SECTIONS 19 AND 20 T22N R16W.
ELEVATION: 1031.413 M (3383.89 FT)
- 04-2-209 A 1 1/2" ALUMINUM CAP IN CONC. "M.A.D. 14 RLS 10343"
LOCATED 1/4 MI. ± WEST OF BM 04-2-208.
ELEVATION: 1036.233 M (3399.71 FT)
- 04-2-210 A 1 1/2" ALUMINUM CAP IN CONC. "M.A.D. 15 RLS 10343"
LOCATED 45' ± SOUTH OF THE C1/4 FOR SECTION 19 T22N
R16W.
ELEVATION: 1042.254 M (3419.46 FT)
- 04-2-211 A 1 1/2" ALUMINUM CAP IN CONC. "M.A.D. 16 RLS 10343"
LOCATED 0.3 MI. ± WEST OF BM 04-2-210.
ELEVATION: 1049.705 M (3443.91 FT)
- 04-2-212 A 1 1/2" ALUMINUM CAP IN CONC. "M.A.D. 17 RLS 10343"
LOCATED 1/4 MI. ± WEST OF BM 04-2-211.
ELEVATION: 1054.521 M (3459.71 FT)
- 04-2-213 A 1 1/2" ALUMINUM CAP IN CONC. "M.A.D. 18 RLS 10343"
LOCATED 1/4 MI. ± WEST OF BM 04-2-212.
ELEVATION: 1061.324 M (3482.03 FT)
- 04-2-214 A 1" O.D.I.P. IN CONC. BEING THE WEST 1/4 CORNER OF
SECTION 19 T22N R16W.
ELEVATION: 1069.547 M (3509.01 FT)
- 04-2-215 A 1 1/2" ALUMINUM CAP IN CONC. "M.A.D. 12 RLS 10343"
LOCATED 1/4 MI. ± EAST OF BM 04-2-208.
ELEVATION: 1027.080 M (3369.68 FT)
- 04-2-216 A 1 1/2" ALUMINUM CAP IN CONC. "M.A.D. 11 RLS 10343"
LOCATED 50' ± SOUTH OF THE CENTER 1/4 CORNER FOR
SECTION 20 T22N R16W.
ELEVATION: 1021.605 M (3351.72 FT)
- 04-2-217 A 1 1/2" ALUMINUM CAP IN CONC. "M.A.D. 10 RLS 10343"
LOCATED 1/4 MI. ± EAST OF BM 04-2-216.
ELEVATION: 1016.876 M (3336.20 FT)
- 04-2-218 A 1 1/2" ALUMINUM CAP IN CONC. "M.A.D. 9 RLS 10343"
LOCATED 60' ± SOUTHWEST OF THE 1/4 CORNER COMMON TO
SECTIONS 20 AND 21 T22N R16W (1/4 IS BM 95-2-87)
ELEVATION: 1013.137 M (3323.93 FT)

- 05-2-219 A 2" BRASS CAP IN TOP OF CURB "CK BM" LOCATED ON THE WEST SIDE OF COLLEGE TRAILS RD. NEAR JAGERSON AVE.
ELEVATION: 1041.656 M (3417.50 FT)
- 05-2-220 A 2" ALUMINUM CAP IN CONC. "M.C.S. NB 6 RLS 10343" LOCATED 100' ± NORTHEAST OF THE 1/4 CORNER COMMON TO SECTIONS 5 AND 6 T22N R16W.
0.5' ± ABOVE GROUND
ELEVATION: 1068.494 M (3505.55 FT)
- 05-2-221 A 3" ALUMINUM CAP IN HANDHOLE "M.C.D.E. RLS 13023 1992" BEING THE CORNER COMMON TO SECTIONS 5, 6, 7, AND 8 T22N R16W. (BANK AND CALLE CASTANO)
2' ± BELOW GROUND
ELEVATION: 1061.024 M (3481.04 FT)
- 05-2-222 A U.S.G.L.O. BRASS CAP IN CONC. BEING THE 1/4 CORNER COMMON TO SECTIONS 7 AND 8 T22N R16W.
FLUSH WITH GROUND
ELEVATION: 1052.564 M (3453.29 FT)
- 05-2-223 A U.S.G.L.O. BRASS CAP IN CONC. BEING THE CORNER COMMON TO SECTIONS 7, 8, 17, AND 18 T22N R16W NEAR THE CONC. BASE OF A GATE POST.
0.5' ± BELOW GROUND
ELEVATION: 1045.403 M (3429.79 FT)
- 05-2-224 A U.S.G.L.O. BRASS CAP IN CONC. BEING THE 1/4 CORNER COMMON TO SECTIONS 17 AND 18 T22N R16W.
0.1' ± ABOVE GROUND
ELEVATION: 1041.055 M (3415.53 FT)
- 05-2-225 A 3" ALUMINUM DISK IN CONC. "RLS 19319 1992" BEING THE 1/4 CORNER COMMON TO SECTIONS 3 AND 4 T22N R16W.
FLUSH WITH GROUND
ELEVATION: 1014.122 M (3327.17 FT)
- 05-2-226 A U.S.G.L.O. BRASS CAP IN CONC. "1911" BEING THE CORNER COMMON TO SECTIONS 3, 4, 9, AND 10 T22N R16W.
1.2' ± BELOW GROUND
ELEVATION: 1011.172 M (3317.49 FT)
- 05-2-227 A U.S.G.L.O. BRASS CAP IN CONC. "1911" BEING THE 1/4 CORNER COMMON TO SECTIONS 9 AND 10 T22N R16W.
0.5' ± BELOW GROUND
ELEVATION: 1007.343 M (3304.92 FT)
- 05-2-228 A U.S.G.L.O. BRASS CAP IN HANDHOLE BEING THE CORNER COMMON TO SECTIONS 9, 10, 15, AND 16 T22N R16W.
1.4' ± BELOW GROUND
ELEVATION: 1005.160 M (3297.76 FT)

- 05-2-229 A U.S.G.L.O. BRASS CAP IN CONC. "1911" BEING THE 1/4
CORNER COMMON TO SECTIONS 15 AND 16 T22N R16W.
0.5' ± BELOW GROUND
ELEVATION: 1002.514 M (3289.08 FT)
- ~~05-2-230 A U.S.G.L.O. BRASS CAP IN CONC. "1911" BEING THE CORNER
COMMON TO SECTIONS 15, 16, 21, AND 22 T22N R16W.
0.7' ± ABOVE GROUND
ELEVATION: 1002.201 M (3288.05 FT)~~
- 05-2-231 A 1 1/2" ALUMINUM CAP IN CONC. "M.A.D. 5 RLS 10343"
LOCATED 65' ± SOUTHEAST OF THE 1/4 CORNER COMMON TO
SECTIONS 21 AND 22 T22N R16W.
ELEVATION: 999.555 M (3279.38 FT)
- 05-2-232 A 1 1/2" ALUMINUM CAP IN CONC. "RC 110 H,V" LOCATED 50'
± NORTHWEST OF THE CORNER COMMON TO SECTIONS 21, 22,
27, AND 28 T22N R16W.
ELEVATION: 1003.979 M (3293.89 FT)
- 05-2-233 A U.S.G.L.O. BRASS CAP IN CONC. BEING THE 1/4 CORNER
COMMON TO SECTIONS 6 AND 7 T22N R16W.
1' ± BELOW GROUND
ELEVATION: 1075.640 M (3529.00 FT)
- 05-2-234 A 1 1/2" ALUMINUM CAP IN CONC. "M.A.D. 8 RLS 10343"
LOCATED 1/4 MI. ± EAST OF BM 95-2-87.
0.2' ± ABOVE GROUND
ELEVATION: 1009.317 M (3311.40 FT)
- 05-2-235 A 1 1/2" ALUMINUM CAP IN CONC. "M.A.D. 7 RLS 10343"
LOCATED 60' ± SOUTHWEST OF THE CENTER 1/4 FOR SECTION
21 T22N R16W.
0.2' ± ABOVE GROUND
ELEVATION: 1005.949 M (3300.35 FT)
- 05-2-236 A 1 1/2" ALUMINUM CAP IN CONC. "M.A.D. 6 RLS 10343"
LOCATED 1/4 MI. ± EAST OF BM 05-2-235.
0.2' ± ABOVE GROUND
ELEVATION: 1002.387 M (3288.66 FT)
- 05-2-237 A 1 1/2" ALUMINUM CAP IN CONC. "M.A.D. 4 RLS 10343"
LOCATED 1/4 MI. ± EAST OF BM 05-2-231.
0.1' ± ABOVE GROUND
ELEVATION: 999.210 M (3278.24 FT)
- 05-2-238 A 1 1/2" ALUMINUM CAP IN CONC. "M.A.D. 3 RLS 10343"
LOCATED NEAR THE WEST END OF A CURVE IN GRACE NEAL RD.
0.2' ± ABOVE GROUND
ELEVATION: 999.111 M (3277.92 FT)

- 05-2-239 A 1 1/2" ALUMINUM CAP IN CONC. "M.A.D. 2 RLS 10343"
 LOCATED 1/4 MI. ± NORTHWEST OF HIGHWAY 66 ALONG GRACE
 NEAL RD.
 0.2' ± ABOVE GROUND
 ELEVATION: 1002.727 M (3289.78 FT)
- 05-2-240 A 1 1/2" ALUMINUM CAP IN CONC. "M.A.D. 1 RLS 10343"
 LOCATED 150' ± NORTHWEST OF THE INTERSECTION OF HIGHWAY
 66 AND GRACE NEAL RD.
 ELEVATION: 1006.410 M (3301.86 FT)
- 05-2-241 A 1 1/2" ALUMINUM CAP IN HANDHOLE "RLS 15341" BEING THE
 1/4 CORNER COMMON TO SECTIONS 2 AND 1 T22N R16W.
 0.8' ± BELOW GROUND
 ELEVATION: 973.612 M (3194.26 FT)
- 05-2-242 A U.S.G.L.O. BRASS CAP IN CONC. "1911" BEING THE CORNER
 COMMON TO SECTIONS 1, 2, 11, AND 12 T22N R16W.
 0.8' ± ABOVE GROUND
 ELEVATION: 979.941 M (3215.02 FT)
- 05-2-243 A 1 1/2" ALUMINUM CAP IN HANDHOLE "RLS 15341" BEING THE
 1/4 CORNER COMMON TO SECTIONS 11 AND 12 T22N R16W.
 0.1' ± BELOW GROUND
 ELEVATION: 986.212 M (3235.60 FT)
- 05-2-244 A U.S.G.L.O. BRASS CAP IN CONC. "1911" BEING THE CORNER
 COMMON TO SECTIONS 11, 12, 13, AND 14 T22N R16W.
 0.1' ± ABOVE GROUND
 ELEVATION: 994.737 M (3263.57 FT)
- 05-2-245 A U.S.G.L.O. BRASS CAP IN CONC. "1911" BEING THE 1/4
 CORNER COMMON TO SECTIONS 1 T22N R16W AND 6 T22N R15W.
 0.7' ± ABOVE GROUND
 ELEVATION: 986.279 M (3235.82 FT)
- 05-2-246 A U.S.G.L.O. BRASS CAP IN CONC. "1911" BEING THE CORNER
 COMMON TO SECTIONS 1 AND 12 T22N R16W, 6 AND 7 T22N
 R15W.
 0.3' ± ABOVE GROUND
 ELEVATION: 992.305 M (3255.59 FT)
- 05-2-247 A U.S.G.L.O. BRASS CAP IN HANDHOLE "1911" BEING THE 1/4
 CORNER COMMON TO SECTIONS 11 AND 14 T22N R16W.
 1' ± BELOW GROUND
 ELEVATION: 987.903 M (3241.15 FT)
- 06-2-248 A 1 1/2" ALUMINUM CAP IN HANDHOLE "RLS 15341" BEING THE
 CORNER COMMON TO SECTIONS 10, 11, 14, AND 15 T22N R16W.
 1' ± BELOW GROUND

ELEVATION: 986.685 M (3237.15 FT)

06-2-249 A U.S.G.L.O. BRASS CAP IN HANDHOLE "1911" BEING THE 1/4
CORNER COMMON TO SECTIONS 10 AND 15 T22N R16W.
1' ± BELOW GROUND
ELEVATION: 994.846 M (3263.92 FT)

06-2-250 A 3" BRASS DISK IN CONC. "RLS 15341 1992" BEING THE 1/4
CORNER COMMON TO SECTIONS 9 AND 16 T22N R16W.
FLUSH WITH GROUND
ELEVATION: 1014.646 M (3328.88 FT)

06-2-251 A U.S.G.L.O. BRASS CAP IN CONC. "1911" BEING THE CORNER
COMMON TO SECTIONS 8, 9, 16, AND 17 T22N R16W.
0.5' ± ABOVE GROUND
ELEVATION: 1024.941 M (3362.66 FT)

06-2-252 A 1 1/2" ALUMINUM CAP IN CONC. "RLS 15341" BEING THE
1/4 CORNER COMMON TO SECTIONS 8 AND 17 T22N R16W.
FLUSH WITH GROUND
ELEVATION: 1034.814 M (3395.05 FT)

06-2-253 A U.S.G.L.O. BRASS CAP IN CONC. "1911" BEING THE 1/4
CORNER COMMON TO SECTIONS 7 AND 18 T22N R16W.
FLUSH WITH GROUND
ELEVATION: 1054.676 M (3460.22 FT)

06-2-254 A 2" BRASS CAP IN CONC. 0.5 MI. WEST OF BM 6-2-253 AND
75' SOUTH OF INTERSECTION.
ELEVATION: 1071.755 M (3516.25 FT)

06-2-255 A U.S.G.L.O. BRASS CAP IN CONC. "1911" BEING THE CORNER
COMMON TO SECTIONS 17, 16, 20, AND 21 T22N R16W.
0.1M ± ABOVE GROUND
ELEVATION: 1018.989 M (3343.13 FT)

06-2-256 A U.S.G.L.O. BRASS CAP IN CONC. "1911" BEING THE 1/4
CORNER COMMON TO SECTIONS 17 AND 16 T22N R16W.
0.6M ± ABOVE GROUND
ELEVATION: 1021.774 M (3352.27 FT)

06-2-257 A U.S.G.L.O. BRASS CAP IN CONC. "1911" BEING THE 1/4
CORNER COMMON TO SECTIONS 8 AND 9 T22N R16W.
0.25M ± ABOVE GROUND
ELEVATION: 1031.650 M (3384.67 FT)

07-2-258 A U.S.G.L.O. BRASS CAP IN CONC. "1911" BEING THE CORNER
COMMON TO SECTIONS 5, 4, 8, AND 9 T22N R16W.
0.2M ± BELOW GROUND
ELEVATION: 1034.806 M (3395.03 FT)

07-2-259 A RED PLASTIC CAP IN CONC. BEING THE 1/4 CORNER COMMON TO SECTIONS 5 AND 4 T22N R16W.
FLUSH WITH GROUND
ELEVATION: 1041.373 M (3416.57 FT)

07-2-260 A U.S.G.L.O. BRASS CAP IN CONC. BEING THE 1/4 CORNER COMMON TO SECTIONS 22 AND 23 T22N R16W.
FLUSH WITH GROUND
ELEVATION: 1001.915 M (3287.12 FT)

07-2-261 A U.S.G.L.O. BRASS CAP IN CONC. BEING THE CORNER COMMON TO SECTIONS 15, 14, 22, AND 23 T22N R16W.
FLUSH WITH GROUND
ELEVATION: 995.562 M (3266.27 FT)

07-2-262 AN ALUMINUM CAP IN HANDHOLE "RLS 15341" BEING THE 1/4 CORNER COMMON TO SECTIONS 15 AND 14 T22N R16W.
0.8' BELOW GROUND
ELEVATION: 989.501 M (3246.39 FT)

07-2-263 A 3" BRASS DISK IN CONC. "RLS 15341 1992" BEING THE 1/4 CORNER COMMON TO SECTIONS 21 AND 28 T22N R16W.
0.1M BELOW GROUND
ELEVATION: 1003.537 M (3292.44 FT)

07-2-264 A 1 1/2" ALUMINUM CAP IN HANDHOLE "RLS 15341" BEING THE 1/4 CORNER COMMON TO SECTIONS 10 AND 11 T22N R16W.
0.42M BELOW GROUND
ELEVATION: 986.298 M (3235.88 FT)

07-2-265 A U.S.G.L.O. BRASS CAP IN CONC. "1911" BEING THE CORNER COMMON TO SECTIONS 3, 2, 10, AND 11, T22N R16W.
0.05M ABOVE GROUND
ELEVATION: 987.684 M (3240.43 FT)

07-2-266 A 1 1/2" ALUMINUM CAP IN PVC WELL "RLS 15341" BEING THE 1/4 CORNER COMMON TO SECTIONS 3 AND 2 T22N R16W.
0.35M BELOW GROUND
ELEVATION: 988.260 M (3242.32 FT)

07-2-267 A U.S.G.L.O. BRASS CAP IN CONC. BEING THE 1/4 CORNER COMMON TO SECTIONS 25 AND 30 T22N R16W.
FLUSH W/GROUND
ELEVATION: 1047.127 M (3435.45 FT)

07-2-268 A U.S.G.L.O. BRASS CAP IN CONC. BEING THE CORNER COMMON TO SECTIONS 24 AND 25 T22N R16W, 19 AND 30 T22N R15W.
FLUSH W/GROUND
ELEVATION: 1036.179 M (3399.53 FT)

07-2-269 A U.S.G.L.O. BRASS CAP IN CONC. BEING THE 1/4 CORNER

- COMMON TO SECTIONS 24 R16W AND 19 R15W T22N.
FLUSH W/GROUND
ELEVATION: 1031.663 M (3384.71 FT)
- 07-2-270 A U.S.G.L.O. BRASS CAP IN CONC. BEING THE CORNER COMMON
TO SECTIONS 13 AND 24 R16W, 18 AND 19 R15W T22N.
FLUSH W/GROUND
ELEVATION: 1023.981 M (3359.51 FT)
- 07-2-271 A U.S.G.L.O. BRASS CAP IN CONC. BEING THE 1/4 CORNER
COMMON TO SECTIONS 13 R15W AND 18 R16W T22N.
FLUSH W/GROUND
ELEVATION: 1015.907 M (3333.02 FT)
- 07-2-272 A U.S.G.L.O. BRASS CAP IN CONC. BEING THE CORNER COMMON
TO SECTIONS 12 AND 13 R16W, 7 AND 18 R15W T22N.
FLUSH W/GROUND
ELEVATION: 1007.653 M (3305.94 FT)
- 07-2-273 A 1 1/2" ALUMINUM CAP IN PVC WELL BEING THE
INTERSECTION OF THE EAST RR R/W AND SECTION LINE COMMON
TO SECTIONS 12 R16W AND 7 R15W T22N.
0.25M BELOW GROUND
ELEVATION: 1000.141 M (3281.30 FT)
- 07-2-274 A 3" BRASS DISK IN CONC. "RLS 15341 1992" BEING THE 1/4
COMMON TO SECTIONS 13 AND 24 T22N R16W.
FLUSH W/GROUND
ELEVATION: 1016.933 M (3336.39 FT)
- 07-2-275 A U.S.G.L.O. BRASS CAP IN CONC. BEING THE CORNER COMMON
TO SECTIONS 13, 14, 23, AND 24 T22N R16W.
FLUSH W/GROUND
ELEVATION: 1007.645 M (3305.92 FT)
- 07-2-276 A U.S.G.L.O. BRASS CAP IN CONC. BEING THE 1/4 CORNER
COMMON TO SECTIONS 23 AND 24 T22N R16W.
FLUSH W/GROUND
ELEVATION: 1013.293 M (3324.45 FT)
- 07-2-277 A U.S.G.L.O. BRASS CAP IN CONC. BEING THE CORNER COMMON
TO SECTIONS 23, 24, 25, AND 26 T22N R16W.
FLUSH W/GROUND
ELEVATION: 1021.546 M (3351.52 FT)
- 07-2-278 A U.S.G.L.O. BRASS CAP IN CONC. BEING THE 1/4 CORNER
COMMON TO SECTIONS 22 AND 27 T22N R16W.
FLUSH W/GROUND
ELEVATION: 1004.994 M (3297.22 FT)
- 07-2-279 A U.S.G.L.O. BRASS CAP IN CONC. BEING THE 1/4 CORNER

COMMON TO SECTIONS 14 AND 23 T22N R16W.
FLUSH W/GROUND
ELEVATION: 1000.256 M (3281.67 FT)

07-2-280 ~~A 3" BRASS DISK IN CONC. "RLS 23960 2002" BEING THE 1/4
CORNER COMMON TO SECTIONS 15 AND 22 T22N R16W.
FLUSH W/GROUND
ELEVATION: 993.516 M (3259.56 FT)~~

07-2-281 A U.S.G.L.O. BRASS CAP IN HANDHOLE BEING THE 1/4 CORNER
COMMON TO SECTIONS 16 AND 21 T22N R16W.
FLUSH W/GROUND
ELEVATION: 1011.018 M (3316.98 FT)

07-2-282 A U.S.G.L.O. BRASS CAP IN CONC. BEING THE 1/4 CORNER
COMMON TO SECTIONS 17 AND 20 T22N R16W.
FLUSH W/GROUND (CAP IS ROTATED 180°)
ELEVATION: 1024.772 M (3362.11 FT)

07-2-283 A U.S.G.L.O. BRASS CAP IN CONC. BEING THE 1/4 CORNER
COMMON TO SECTIONS 1 AND 12 T22N R16W.
FLUSH W/GROUND
ELEVATION: 985.812 M (3234.28 FT)

07-2-284 A U.S.G.L.O. BRASS CAP IN CONC. BEING A WITNESS TO THE
1/4 CORNER COMMON TO SECTIONS 2 AND 11 T22N R16W.
FLUSH W/GROUND (1 CHAIN WEST OF 1/4 CORNER POSITION)
ELEVATION: 979.003 M (3211.95 FT)

MARCH 2011

THIS PUBLICATION REPRESENTS THE LATEST ADJUSTMENT OF
THE SECOND ORDER VERTICAL CONTROL NETWORK PERFORMED BY
THE CITY OF KINGMAN SURVEYING DEPARTMENT. DUE TO THE
ONGOING CONSTRUCTION WITHIN THIS NETWORK, POTENTIALLY
DISTURBING THESE MONUMENTS, USERS ARE ADVISED TO VERIFY
THESE ELEVATIONS UTILIZING AT LEAST TWO BENCHMARKS.

RODNEY G. WARD RLS 23960
CITY SURVEYOR