

EXHIBIT 15  
NAVAJO GENERATING STATION 230kV TAP LINE  
AS-BUILT RIGHT OF WAY

THE FOLLOWING RIGHT OF WAY BEING DESCRIBED WITH GRID DISTANCES AND BEARINGS IN THE ARIZONA STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (0202), NORTH AMERICAN DATUM OF 1983, EPOCH 2007. A GRID TO GROUND SCALE FACTOR OF 1.000280158 WAS USED TO CALCULATE THE GROUND (SURFACE) ACREAGES. GRID ACREAGES ARE MULTIPLIED BY THE GRID TO GROUND SCALE FACTOR SQUARED (1.000560394) TO PRODUCE GROUND (SURFACE) ACREAGES.

A RIGHT OF WAY EXTENDING FROM THE NAVAJO GENERATING PLANT SITE TO THE EXISTING UNITED STATES BUREAU OF RECLAMATION 230kV TRANSMISSION LINE , THROUGH OR ACROSS SECTION 2 (UNSURVEYED), TOWNSHIP 40 NORTH, RANGE 9 EAST, GILA AND SALT RIVER MERIDIAN, COCONINO COUNTY, ARIZONA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

A 200 FOOT WIDE STRIP LYING 100 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE;

**COMMENCING** AT THE SOUTHEAST CORNER OF SECTION 33, TOWNSHIP 41 NORTH, RANGE 9 EAST, BEING A BUREAU OF LAND MANAGEMENT BRASS CAP, FROM WHICH THE NORTH EAST CORNER OF SECTION 21, TOWNSHIP 41 NORTH, RANGE 9 EAST, BEARS NORTH 00°10'50" WEST A DISTANCE OF 15870.25 FEET;

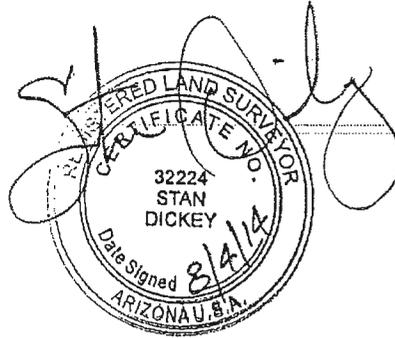
THENCE SOUTH 67°44'40" EAST, A DISTANCE OF 5938.02 FEET, TO THE SOUTHWEST CORNER OF THE NAVAJO GENERATING STATION PLANT SITE RIGHT OF WAY, BEING A HALF INCH REBAR;

THENCE SOUTH 78°06'44" EAST ALONG THE SOUTH BOUNDARY OF THE NAVAJO GENERATING STATION PLANT SITE, A DISTANCE OF 425.07 FEET, TO THE **POINT OF BEGINNING**;

THENCE SOUTH 13°20'07" WEST, A DISTANCE OF 222.90 FEET TO A POINT ON THE NORTHERLY RIGHT OF WAY OF THE UNITED STATES BUREAU OF RECLAMATION 230kV TRANSMISSION LINE AND THE **POINT OF TERMINUS**.

EXHIBIT 15  
NAVAJO GENERATING STATION 230KV TAP LINE  
AS-BUILT RIGHT OF WAY

SAID PARCEL CONTAINING 1.02 ACRES ON THE ARIZONA STATE PLANE  
COORDINATE SYSTEM, CENTRAL ZONE (0202), NORTH AMERICAN DATUM OF  
1983, EPOCH 2007 AND BEING 1.02 GROUND (SURFACE) ACRES.







September 7, 2005  
Navajo Generating Station  
Modified Intake Structure Easement

**EXHIBIT "1"**

A parcel of land located in Section 15 (Unsurveyed), Township 41 North, Range 9 East, Gila and Salt River Meridian, Coconino County, Arizona, described as follows: (Using as a base line the east line of Section 21, Township 41 North, Range 9 East with a true bearing of South 00°07'30" West)

Commencing for reference at the Northeast corner of said Section 21, Township 41 North, Range 9 East;

Thence South 07°06'53" East 1218.91 feet;

Thence North 30°37'06" East 3898 feet more or less to the south boundary of the USBR withdrawal boundary, being identical with the bank of Lake Powell at elevation of 3720 feet above mean sea level (NGVD 29 datum), said point being the POINT OF BEGINNING;

Thence Northwesterly along the bank of Lake Powell (at an elevation of 3720 feet) 205 feet more or less to a point lying 100 feet northwesterly of, as measured perpendicular to the westerly line of the existing Pumping Plant Site as shown on Inset "AA", Exhibit "A", Navajo Generation Station, Water Intake Facility and Return Water Pipeline across R/W on or across Sec. 15, T41N-R9E, dated November 4, 1969 and signed by C.H. Whalin, Civil Engineer;

Thence North 30°37'06" East 150 feet more or less to an elevation of 3200 feet above mean sea level (NGVD 29 datum);

Thence southeasterly along said elevation of 3200 feet above mean sea level 410 feet more or less to a point lying 100 feet southeasterly of, as measured perpendicular to the easterly line of the existing Pumping Plant Site as shown on Inset "AA", Exhibit "A", Navajo Generation Station, Water Intake Facility and Return Water Pipeline across R/W on or across Sec. 15, T41N-R9E, dated November 4, 1969 and signed by C.H. Whalin, Civil Engineer;

Thence South 30°37'06" West 170 feet more or less to the aforementioned bank of Lake Powell at an elevation of 3720 feet above mean sea level (NGVD 29 datum);

Thence northwesterly along the bank of Lake Powell (at an elevation of 3720 feet) 205 feet more or less back to the POINT OF BEGINNING.

Subject easement contains approximately 1.45 acres more or less.



WATER RETURN EASEMENT

A RIGHT-OF-WAY EXTENDING FROM THE USBR WITHDRAWAL BOUNDARY THROUGH OR ACROSS SECTION 15 (UNSURVEYED), TOWNSHIP 41 NORTH, RANGE 9 EAST, GILA AND SALT RIVER BASE AND MERIDIAN, INTO LAKE POWELL, SAID RIGHT-OF-WAY BEING 25 FEET WIDE WHOSE CENTERLINE IS DESCRIBED AS FOLLOWS: (USING AS A BASE THE EAST LINE OF SECTION 21, TOWNSHIP 41 NORTH, RANGE 9 EAST, WITH A TRUE BEARING OF SOUTH  $0^{\circ}07'30''$  WEST):

BEGINNING AT THE NORTHEAST CORNER OF SAID SECTION 21, TOWNSHIP 41 NORTH, RANGE 9 EAST, THENCE NORTH  $37^{\circ}31'52''$  EAST, 2,702.87 FEET TO THE TRUE POINT OF BEGINNING, SAID POINT BEING ON THE SOUTH BOUNDARY OF THE USBR WITHDRAWAL BOUNDARY AND IDENTICAL WITH CONTOUR ELEVATION 3720 FEET MEAN SEA LEVEL (U.S. COAST AND GEODETIC SURVEY DATUM); THENCE NORTH  $18^{\circ}52'50''$  WEST, 618 FEET MORE OR LESS. SAID DESCRIBED PARCEL CONTAINS 0.36 ACRES.

EXHIBIT 1  
PLANT SITE

THE FOLLOWING PARCEL BEING DESCRIBED WITH GRID DISTANCES AND BEARINGS IN THE ARIZONA STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (0202), NORTH AMERICAN DATUM OF 1983, EPOCH 2007. A GRID TO GROUND SCALE FACTOR OF 1.000280158 WAS USED TO CALCULATE THE GROUND (SURFACE) ACREAGES. GRID ACREAGES ARE MULTIPLIED BY THE GRID TO GROUND SCALE FACTOR SQUARED (1.000560394) TO PRODUCE GROUND (SURFACE) ACREAGES.

A PARCEL OF LAND LOCATED IN SECTIONS 1 AND 2 (UNSURVEYED), TOWNSHIP 40 NORTH, RANGE 9 EAST, AND SECTIONS 35 AND 36 (UNSURVEYED), TOWNSHIP 41 NORTH, RANGE 9 EAST GILA AND SALT RIVER MERIDIAN, COCONINO COUNTY, ARIZONA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

**COMMENCING** AT THE SOUTHEAST CORNER OF SECTION 33, TOWNSHIP 41 NORTH, RANGE 9 EAST, BEING A BUREAU OF LAND MANAGEMENT BRASS CAP, FROM WHICH THE NORTH EAST CORNER OF SECTION 21, TOWNSHIP 41 NORTH, RANGE 9 EAST, BEARS NORTH 00°10'50" WEST, A DISTANCE OF 15870.25 FEET;

THENCE SOUTH 67°44'40" EAST, A DISTANCE OF 5938.02 FEET, TO THE **POINT OF BEGINNING**, BEING A HALF INCH REBAR;

THENCE NORTH 11°52'48" EAST, A DISTANCE OF 7472.81 FEET, TO A BRASS CAP MARKED "CORNER No. 2";

THENCE SOUTH 78°05'05" EAST, A DISTANCE OF 5947.11 FEET, TO A BRASS CAP MARKED "CORNER No. 3";

THENCE SOUTH 11°52'19" WEST, A DISTANCE OF 7469.96 FEET, TO A BRASS CAP MARKED "CORNER No. 4";

THENCE NORTH 78°06'44" WEST, A DISTANCE OF 5948.15 FEET, TO THE **POINT OF BEGINNING**.

SAID PARCEL CONTAINING 1020.13 ACRES ON THE ARIZONA STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (0202), NORTH AMERICAN DATUM OF 1983, EPOCH 2007 AND BEING 1020.71 GROUND (SURFACE) ACRES.

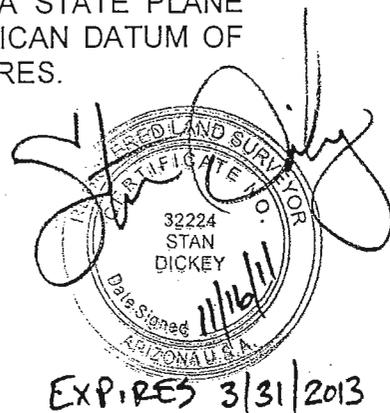


EXHIBIT 2  
ASH DISPOSAL AREA

THE FOLLOWING PARCEL BEING DESCRIBED WITH GRID DISTANCES AND BEARINGS IN THE ARIZONA STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (0202), NORTH AMERICAN DATUM OF 1983, EPOCH 2007. A GRID TO GROUND SCALE FACTOR OF 1.000280158 WAS USED TO CALCULATE THE GROUND (SURFACE) ACREAGES. GRID ACREAGES ARE MULTIPLIED BY THE GRID TO GROUND SCALE FACTOR SQUARED (1.000560394) TO PRODUCE GROUND (SURFACE) ACREAGES.

A PARCEL OF LAND LOCATED IN SECTIONS 5 AND 6 (UNSURVEYED), TOWNSHIP 40 NORTH, RANGE 10 EAST, AND SECTIONS 29, 30, 31 AND 32 (UNSURVEYED), TOWNSHIP 41 NORTH, RANGE 10 EAST, GILA AND SALT RIVER MERIDIAN, COCONINO COUNTY, ARIZONA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

**COMMENCING** AT THE SOUTHEAST CORNER OF SECTION 33, TOWNSHIP 41 NORTH, RANGE 9 EAST, BEING A BUREAU OF LAND MANAGEMENT BRASS CAP, FROM WHICH THE NORTH EAST CORNER OF SECTION 21, TOWNSHIP 41 NORTH, RANGE 9 EAST, BEARS NORTH 00°10'50" WEST, A DISTANCE OF 15870.25 FEET;

THENCE NORTH 70°56'00" EAST, A DISTANCE OF 18770.44 FEET, TO THE **POINT OF BEGINNING**, BEING A BRASS CAP MARKED "CORNER No. 5";

THENCE NORTH 89°59'46" EAST, A DISTANCE OF 3848.85 FEET, TO A POINT;

THENCE SOUTH 00°00'20" EAST, A DISTANCE OF 3748.65 FEET, TO A BRASS CAP MARKED "CORNER No. 7";

THENCE SOUTH 89°59'52" EAST, A DISTANCE OF 1400.22 FEET, TO A BRASS CAP MARKED "CORNER No. 8";

THENCE SOUTH 00°00'43" WEST, A DISTANCE OF 3598.97 FEET, TO A BRASS CAP MARKED "CORNER No. 9";

THENCE SOUTH 89°59'46" WEST, A DISTANCE OF 5247.98 FEET, TO A BRASS CAP MARKED "CORNER No. 10";

THENCE NORTH 00°00'20" WEST, A DISTANCE OF 7347.77 FEET, TO THE POINT OF BEGINNING.

SAID PARCEL CONTAINING 764.87 ACRES ON THE ARIZONA STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (0202), NORTH AMERICAN DATUM OF 1983, EPOCH 2007 AND BEING 765.30 GROUND (SURFACE) ACRES.



REGISTERED LAND SURVEYOR  
LICENSE NO. 32224  
STAN DICKEY  
Date Signed 11/17/11  
ARIZONA, U.S.A.

EXPIRES 3/31/2013

EXHIBIT 3  
PUMPING PLANT SITE

THE FOLLOWING PARCEL BEING DESCRIBED WITH GRID DISTANCES AND BEARINGS IN THE ARIZONA STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (0202), NORTH AMERICAN DATUM OF 1983, EPOCH 2007. A GRID TO GROUND SCALE FACTOR OF 1.000280158 WAS USED TO CALCULATE THE GROUND (SURFACE) ACREAGES. GRID ACREAGES ARE MULTIPLIED BY THE GRID TO GROUND SCALE FACTOR SQUARED (1.000560394) TO PRODUCE GROUND (SURFACE) ACREAGES.

A PARCEL OF LAND LOCATED IN SECTION 15 (UNSURVEYED), TOWNSHIP 41 NORTH, RANGE 9 EAST, GILA AND SALT RIVER MERIDIAN, COCONINO COUNTY, ARIZONA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

**COMMENCING** AT THE NORTHEAST CORNER OF SECTION 21, TOWNSHIP 41 NORTH, RANGE 9 EAST, BEING A BUREAU OF LAND MANAGEMENT BRASS CAP, FROM WHICH THE SOUTH EAST CORNER OF SECTION 33, TOWNSHIP 41 NORTH, RANGE 9 EAST, BEARS SOUTH 00°10'50" EAST, A DISTANCE OF 15870.25 FEET;

THENCE NORTH 43°55'32" EAST, A DISTANCE OF 2409.65 FEET, TO THE **POINT OF BEGINNING**;

THENCE NORTH 30°56'02" EAST, A DISTANCE OF 580.56 FEET MORE OR LESS TO THE NORTH BOUNDARY OF THE NAVAJO INDIAN RESERVATION, SAID BOUNDARY BEING IDENTICAL WITH BANK OF LAKE POWELL AT ELEVATION 3720 FEET MEAN SEA LEVEL (U.S. COAST AND GEODETIC SURVEY DATUM);

THENCE SOUTH 39°52'04" EAST, ALONG THE NORTH BOUNDARY OF THE NAVAJO INDIAN RESERVATION A DISTANCE OF 60.94 FEET;

THENCE NORTH 63°51'18" EAST, ALONG THE NORTH BOUNDARY OF THE NAVAJO INDIAN RESERVATION A DISTANCE OF 28.46 FEET;

THENCE SOUTH 73°24'22" EAST, ALONG THE NORTH BOUNDARY OF THE NAVAJO INDIAN RESERVATION A DISTANCE OF 21.26 FEET;

THENCE SOUTH 59°09'36" EAST, ALONG THE NORTH BOUNDARY OF THE NAVAJO INDIAN RESERVATION A DISTANCE OF 102.88 FEET;

THENCE SOUTH 77°40'06" EAST, ALONG THE NORTH BOUNDARY OF THE NAVAJO INDIAN RESERVATION A DISTANCE OF 23.56 FEET;

THENCE SOUTH 48°13'52" EAST, ALONG THE NORTH BOUNDARY OF THE NAVAJO INDIAN RESERVATION A DISTANCE OF 59.99 FEET;

THENCE SOUTH 61°03'54" EAST, ALONG THE NORTH BOUNDARY OF THE NAVAJO INDIAN RESERVATION A DISTANCE OF 72.14 FEET;

THENCE NORTH 07°32'46" EAST, ALONG THE NORTH BOUNDARY OF THE NAVAJO INDIAN RESERVATION A DISTANCE OF 41.71 FEET;

THENCE SOUTH 56°39'42" EAST, ALONG THE NORTH BOUNDARY OF THE NAVAJO INDIAN RESERVATION A DISTANCE OF 69.68 FEET;

THENCE SOUTH 38°43'16" EAST, ALONG THE NORTH BOUNDARY OF THE NAVAJO INDIAN RESERVATION A DISTANCE OF 61.16 FEET;

THENCE SOUTH 42°00'02" WEST, A DISTANCE OF 355.01 FEET;

THENCE SOUTH 87°58'12" WEST, A DISTANCE OF 467.33 FEET, TO THE POINT OF BEGINNING.

SAID PARCEL CONTAINING 4.47 ACRES ON THE ARIZONA STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (0202), NORTH AMERICAN DATUM OF 1983, EPOCH 2007 AND HAVING 4.47 GROUND (SURFACE) ACRES.



EXPIRES 3/31/2013

EXHIBIT 4  
ACCESS ROAD FROM PLANT SITE TO ASH DISPOSAL SITE

THE FOLLOWING PARCEL BEING DESCRIBED WITH GRID DISTANCES AND BEARINGS IN THE ARIZONA STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (0202), NORTH AMERICAN DATUM OF 1983, EPOCH 2007. A GRID TO GROUND SCALE FACTOR OF 1.000280158 WAS USED TO CALCULATE THE GROUND (SURFACE) ACREAGES. GRID ACREAGES ARE MULTIPLIED BY THE GRID TO GROUND SCALE FACTOR SQUARED (1.000560394) TO PRODUCE GROUND (SURFACE) ACREAGES.

A RIGHT-OF-WAY EXTENDING FROM THE EASTERLY BOUNDARY OF THE PLANT SITE (EXHIBIT 1) TO THE WESTERLY BOUNDARY OF THE ASH DISPOSAL SITE (EXHIBIT 3), THROUGH OR ACROSS SECTION 36 (UNSURVEYED), TOWNSHIP 41 NORTH, RANGE 9 EAST AND SECTION 31 (UNSURVEYED), TOWNSHIP 41 NORTH, RANGE 10 EAST GILA AND SALT RIVER MERIDIAN, COCONINO COUNTY, ARIZONA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

**COMMENCING** AT THE SOUTHEAST CORNER OF SECTION 33, TOWNSHIP 41 NORTH, RANGE 9 EAST, BEING A BUREAU OF LAND MANAGEMENT BRASS CAP, FROM WHICH THE NORTH EAST CORNER OF SECTION 21, TOWNSHIP 41 NORTH, RANGE 9 EAST, BEARS NORTH 00°10'50" WEST, A DISTANCE OF 15870.25 FEET;

THENCE SOUTH 88°29'19" EAST, A DISTANCE OF 11984.33 FEET, TO A POINT ON THE EASTERLY BOUNDARY OF PLANT SITE RIGHT OF WAY (EXHIBIT 1) AND THE **POINT OF BEGINNING**, FROM WHICH POINT THE SOUTHEAST CORNER OF THE PLANT SITE BOUNDARY BEING A BRASS CAP MARKED "CORNER No. 4" BEARS SOUTH 11°52'19" WEST, A DISTANCE OF 3227.18 FEET;

THENCE NORTH 11°52'19" EAST, ALONG THE EASTERLY BOUNDARY OF PLANT SITE RIGHT OF WAY, A DISTANCE OF 243.88 FEET;

THENCE SOUTH 62°19'12" EAST, A DISTANCE OF 50.72 FEET, TO THE POINT OF CURVATURE (P.C.) OF A TANGENT CURVE TO THE LEFT HAVING A RADIUS OF 920.00 FEET, FROM WHICH THE POINT OF TANGENCY (P.T.) OF SAID TANGENT CURVE BEARS SOUTH 89°34'44" EAST, A DISTANCE OF 842.74 FEET.

THENCE ALONG SAID CURVE AN ARC DISTANCE OF 875.39 FEET, THROUGH A CENTRAL ANGLE OF 54°31'04" TO THE END OF THE TANGENT CURVE, AND A POINT OF TANGENCY;

THENCE NORTH 63°09'44" EAST, A DISTANCE OF 1272.40 FEET, TO THE POINT OF CURVATURE (P.C.) OF A TANGENT CURVE TO THE RIGHT HAVING A RADIUS OF 1730.00 FEET, FROM WHICH THE POINT OF TANGENCY (P.T.) OF SAID TANGENT CURVE BEARS NORTH 83°10'53" EAST, A DISTANCE OF 1184.49 FEET.

THENCE ALONG SAID CURVE AN ARC DISTANCE OF 1208.93 FEET, THROUGH A CENTRAL ANGLE OF 40°02'19" TO THE END OF THE TANGENT CURVE, AND A POINT OF TANGENCY;

THENCE SOUTH 76°47'57" EAST, A DISTANCE OF 1942.89 FEET, TO THE POINT OF CURVATURE (P.C.) OF A TANGENT CURVE TO THE LEFT HAVING A RADIUS OF 790.00 FEET, FROM WHICH THE POINT OF TANGENCY (P.T.) OF SAID TANGENT CURVE BEARS NORTH 87°38'31" EAST, A DISTANCE OF 423.80 FEET.

THENCE ALONG SAID CURVE AN ARC DISTANCE OF 429.05 FEET, THROUGH A CENTRAL ANGLE OF 31°07'03" TO THE END OF THE TANGENT CURVE, AND A POINT OF TANGENCY;

THENCE NORTH 72°04'59" EAST, A DISTANCE OF 206.87 FEET, TO A POINT ON THE WESTERLY BOUNDARY OF THE ASH DISPOSAL AREA RIGHT OF WAY (EXHIBIT 2);

THENCE SOUTH 00°00'20" EAST, ALONG THE WESTERLY BOUNDARY OF THE ASH DISPOSAL AREA RIGHT OF WAY, A DISTANCE OF 242.88 FEET;

THENCE SOUTH 72°04'59" WEST, A DISTANCE OF 107.58 FEET, TO THE POINT OF CURVATURE (P.C.) OF A TANGENT CURVE TO THE RIGHT HAVING A RADIUS OF 1000.000 FEET, FROM WHICH THE POINT OF TANGENCY (P.T.) OF SAID TANGENT CURVE BEARS SOUTH 87°38'31" WEST, A DISTANCE OF 536.45 FEET.

THENCE ALONG SAID CURVE AN ARC DISTANCE OF 543.10 FEET, THROUGH A CENTRAL ANGLE OF 31°07'03" TO THE END OF THE TANGENT CURVE, AND A POINT OF TANGENCY;

THENCE NORTH 76°47'57" WEST, A DISTANCE OF 1969.91 FEET, TO THE POINT OF CURVATURE (P.C.) OF A TANGENT CURVE TO THE LEFT HAVING A RADIUS OF 1500.00 FEET, FROM WHICH THE POINT OF TANGENCY (P.T.) OF SAID TANGENT CURVE BEARS SOUTH 83°10'53" WEST, A DISTANCE OF 1027.01 FEET.

THENCE ALONG SAID CURVE AN ARC DISTANCE OF 1048.21 FEET, THROUGH A CENTRAL ANGLE OF 40°02'19" TO THE END OF THE TANGENT CURVE, AND A POINT OF TANGENCY;

THENCE SOUTH 63°09'44" WEST, A DISTANCE OF 1258.13 FEET, TO THE POINT OF CURVATURE (P.C.) OF A TANGENT CURVE TO THE RIGHT HAVING A RADIUS OF 1200.00 FEET, FROM WHICH THE POINT OF TANGENCY (P.T.) OF SAID TANGENT CURVE BEARS SOUTH 85°20'12" WEST, A DISTANCE OF 905.83 FEET.

THENCE ALONG SAID CURVE AN ARC DISTANCE OF 928.84 FEET, THROUGH A CENTRAL ANGLE OF 44°20'56" TO THE END OF THE TANGENT CURVE, AND A POINT OF TANGENCY;

THENCE NORTH 72°29'20" WEST, A DISTANCE OF 167.47 FEET, TO THE POINT OF BEGINNING.

SAID PARCEL CONTAINING 30.19 ACRES ON THE ARIZONA STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (0202), NORTH AMERICAN DATUM OF 1983, EPOCH 2007 AND BEING 30.20 GROUND (SURFACE) ACRES.

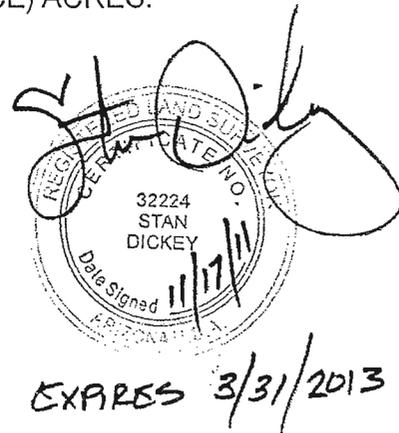


EXHIBIT 5  
PUMPING PLANT ACCESS ROAD TO INDIAN SERVICE ROUTE N-22B

THE FOLLOWING PARCEL BEING DESCRIBED WITH GRID DISTANCES AND BEARINGS IN THE ARIZONA STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (0202), NORTH AMERICAN DATUM OF 1983, EPOCH 2007. A GRID TO GROUND SCALE FACTOR OF 1.000280158 WAS USED TO CALCULATE THE GROUND (SURFACE) ACREAGES. GRID ACREAGES ARE MULTIPLIED BY THE GRID TO GROUND SCALE FACTOR SQUARED (1.000560394) TO PRODUCE GROUND (SURFACE) ACREAGES.

A RIGHT-OF-WAY EXTENDING FROM THE NORTHEASTERLY EDGE OF INDIAN SERVICE ROUTE N-22B TO THE WESTERLY BOUNDARY OF THE PUMPING PLANT SITE BOUNDARY (EXHIBIT 3) THROUGH OR ACROSS SECTIONS 15, 21 AND 22 (UNSURVEYED), TOWNSHIP 41 NORTH, RANGE 9 EAST, GILA AND SALT RIVER MERIDIAN, COCONINO COUNTY, ARIZONA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

**COMMENCING** AT THE NORTHEAST CORNER OF SAID SECTION 21, TOWNSHIP 41 NORTH, RANGE 9 EAST, BEING A BUREAU OF LAND MANAGEMENT BRASS CAP, FROM WHICH THE SOUTH EAST CORNER OF SECTION 33, TOWNSHIP 14 NORTH, RANGE 9 EAST, BEARS SOUTH 00°10'50" EAST, A DISTANCE OF 15870.25 FEET;

THENCE SOUTH 27°31'20" WEST, A DISTANCE OF 829.59 FEET, TO THE **POINT OF BEGINNING**;

THENCE NORTH 43°25'47" EAST, A DISTANCE OF 400.66 FEET, TO THE POINT OF CURVATURE (P.C.) OF A TANGENT CURVE TO THE LEFT HAVING A RADIUS OF 2480.00 FEET, FROM WHICH THE POINT OF TANGENCY (P.T.) OF SAID TANGENT CURVE BEARS NORTH 38°18'22" EAST, A DISTANCE OF 442.96 FEET.

THENCE ALONG SAID CURVE AN ARC DISTANCE OF 443.55 FEET, THROUGH A CENTRAL ANGLE OF 10°14'51" TO THE END OF THE TANGENT CURVE, AND A POINT OF TANGENCY;

THENCE NORTH 33°10'56" EAST, A DISTANCE OF 917.32 FEET, TO THE POINT OF CURVATURE (P.C.) OF A TANGENT CURVE TO THE RIGHT HAVING A RADIUS OF 1070.00 FEET, FROM WHICH THE POINT OF TANGENCY (P.T.) OF SAID TANGENT CURVE BEARS NORTH 45°40'19" EAST, A DISTANCE OF 462.81 FEET.

THENCE ALONG SAID CURVE AN ARC DISTANCE OF 466.49 FEET, THROUGH A CENTRAL ANGLE OF 24°58'46" TO THE END OF THE TANGENT CURVE, AND A POINT OF TANGENCY;

THENCE NORTH  $58^{\circ}09'42''$  EAST, A DISTANCE OF 121.86 FEET, TO THE POINT OF CURVATURE (P.C.) OF A TANGENT CURVE TO THE LEFT HAVING A RADIUS OF 305.00 FEET, FROM WHICH THE POINT OF TANGENCY (P.T.) OF SAID TANGENT CURVE BEARS NORTH  $29^{\circ}18'18''$  EAST, A DISTANCE OF 294.40 FEET.

THENCE ALONG SAID CURVE AN ARC DISTANCE OF 307.23 FEET, THROUGH A CENTRAL ANGLE OF  $57^{\circ}42'50''$  TO THE END OF THE TANGENT CURVE, AND A POINT OF TANGENCY;

THENCE NORTH  $00^{\circ}26'53''$  EAST A DISTANCE OF 165.32 FEET, TO THE POINT OF CURVATURE (P.C.) OF A TANGENT CURVE TO THE RIGHT HAVING A RADIUS OF 295.00 FEET, FROM WHICH THE POINT OF TANGENCY (P.T.) OF SAID TANGENT CURVE BEARS NORTH  $44^{\circ}40'11''$  EAST, A DISTANCE OF 411.49 FEET.

THENCE ALONG SAID CURVE AN ARC DISTANCE OF 455.37 FEET, THROUGH A CENTRAL ANGLE OF  $88^{\circ}26'37''$  TO THE END OF THE TANGENT CURVE, AND A POINT OF TANGENCY;

THENCE NORTH  $88^{\circ}53'29''$  EAST A DISTANCE OF 157.92 FEET, TO THE WESTERLY BOUNDARY OF THE "PUMPING STATION SITE" DESCRIBED IN EXHIBIT 3;

THENCE SOUTH  $30^{\circ}56'02''$  WEST, ALONG SAID WESTERLY BOUNDARY A DISTANCE OF 47.19 FEET;

THENCE SOUTH  $88^{\circ}53'29''$  WEST A DISTANCE OF 132.88 FEET, TO THE POINT OF CURVATURE (P.C.) OF A TANGENT CURVE TO THE LEFT HAVING A RADIUS OF 255.00 FEET, FROM WHICH THE POINT OF TANGENCY (P.T.) OF SAID TANGENT CURVE BEARS SOUTH  $44^{\circ}40'11''$  WEST, A DISTANCE OF 355.69 FEET.

THENCE ALONG SAID CURVE AN ARC DISTANCE OF 393.63 FEET, THROUGH A CENTRAL ANGLE OF  $88^{\circ}26'37''$  TO THE END OF THE TANGENT CURVE, AND A POINT OF TANGENCY;

THENCE SOUTH  $00^{\circ}26'53''$  WEST, A DISTANCE OF 165.32 FEET, TO THE POINT OF CURVATURE (P.C.) OF A TANGENT CURVE TO THE RIGHT HAVING A RADIUS OF 345.00 FEET, FROM WHICH THE POINT OF TANGENCY (P.T.) OF SAID TANGENT CURVE BEARS SOUTH  $29^{\circ}18'18''$  WEST, A DISTANCE OF 333.01 FEET.

THENCE ALONG SAID CURVE AN ARC DISTANCE OF 347.52 FEET, THROUGH A CENTRAL ANGLE OF  $57^{\circ}42'50''$  TO THE END OF THE TANGENT CURVE, AND A POINT OF TANGENCY;

THENCE SOUTH 58°09'42" WEST, A DISTANCE OF 121.86 FEET, TO THE POINT OF CURVATURE (P.C.) OF A TANGENT CURVE TO THE LEFT HAVING A RADIUS OF 1030.00 FEET, FROM WHICH THE POINT OF TANGENCY (P.T.) OF SAID TANGENT CURVE BEARS SOUTH 45°40'19" WEST, A DISTANCE OF 445.51 FEET.

THENCE ALONG SAID CURVE AN ARC DISTANCE OF 449.05 FEET, THROUGH A CENTRAL ANGLE OF 24°58'46" TO THE END OF THE TANGENT CURVE, AND A POINT OF TANGENCY;

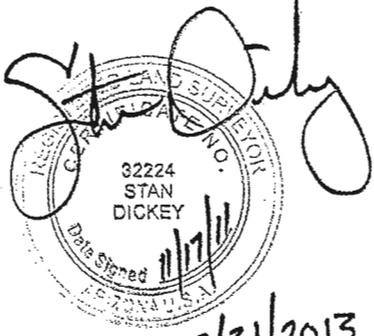
THENCE SOUTH 33°10'56" WEST A DISTANCE OF 917.32 FEET, TO THE POINT OF CURVATURE (P.C.) OF A TANGENT CURVE TO THE RIGHT HAVING A RADIUS OF 2520.00 FEET, FROM WHICH THE POINT OF TANGENCY OF SAID TANGENT CURVE BEARS SOUTH 38°18'22" WEST, A DISTANCE OF 450.10 FEET.

THENCE ALONG SAID CURVE AN ARC DISTANCE OF 450.70 FEET, THROUGH A CENTRAL ANGLE OF 10°14'51" TO THE END OF THE TANGENT CURVE, AND A POINT OF TANGENCY;

THENCE SOUTH 43°25'47" WEST, A DISTANCE OF 400.66 FEET;

THENCE NORTH 46°34'13" WEST, A DISTANCE OF 40.00 FEET, TO THE POINT OF BEGINNING.

SAID PARCEL CONTAINING 3.13 ACRES ON THE ARIZONA STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (0202), NORTH AMERICAN DATUM OF 1983, EPOCH 2007 AND HAVING 3.13 GROUND (SURFACE) ACRES.



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DICKEY  
1/17/13  
EXPIRES 3/31/2013

EXHIBIT 6  
PUMPING PLANT ACCESS ROAD AND WATER PIPELINE  
FROM PUMPING PLANT SITE TO PLANT SITE

THE FOLLOWING PARCEL BEING DESCRIBED WITH GRID DISTANCES AND BEARINGS IN THE ARIZONA STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (0202), NORTH AMERICAN DATUM OF 1983, EPOCH 2007. A GRID TO GROUND SCALE FACTOR OF 1.000280158 WAS USED TO CALCULATE THE GROUND (SURFACE) ACREAGES. GRID ACREAGES ARE MULTIPLIED BY THE GRID TO GROUND SCALE FACTOR SQUARED (1.000560394) TO PRODUCE GROUND (SURFACE) ACREAGES.

A RIGHT OF WAY EXTENDING FROM THE WESTERLY BOUNDARY OF PLANT SITE RIGHT OF WAY (EXHIBIT 1) TO THE SOUTHEASTERLY BOUNDARY OF THE PUMPING STATION RIGHT OF WAY (EXHIBIT 3), THROUGH OR ACROSS SECTIONS 15, 22, 26, 27 AND 35 (UNSURVEYED), TOWNSHIP 41 NORTH, RANGE 9 EAST, GILA AND SALT RIVER MERIDIAN, COCONINO COUNTY, ARIZONA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

A 110 FOOT WIDE STRIP LYING 55 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE;

**COMMENCING** AT THE SOUTHEAST CORNER OF SECTION 33, TOWNSHIP 41 NORTH, RANGE 9 EAST, BEING A BUREAU OF LAND MANAGEMENT BRASS CAP FROM WHICH THE NORTH EAST CORNER OF SECTION 21, TOWNSHIP 41 NORTH, RANGE 9 EAST, BEARS NORTH 00°10'50" WEST, A DISTANCE OF 15870.25 FEET;

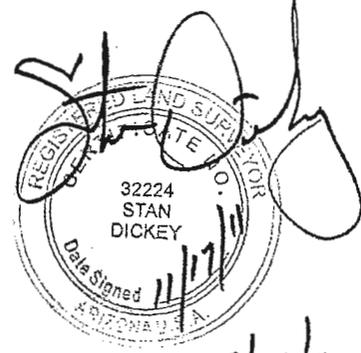
THENCE NORTH 69°12'58" EAST, A DISTANCE OF 6938.18 FEET, TO A POINT ON THE WESTERLY BOUNDARY OF PLANT SITE RIGHT OF WAY (EXHIBIT 1) AND THE **POINT OF BEGINNING**, FROM WHICH POINT THE NORTHWEST CORNER OF THE PLANT SITE RIGHT OF WAY BOUNDARY (EXHIBIT 1) BEING A BRASS CAP MARKED "CORNER No. 2" BEARS NORTH 11°52'48" EAST, A DISTANCE OF 2658.78 FEET;

THENCE NORTH 20°31'52" WEST, A DISTANCE OF 7741.09 FEET;

THENCE NORTH 15°28'28" WEST, A DISTANCE OF 901.96 FEET;

THENCE NORTH 11°13'04" WEST, A DISTANCE OF 7221.37 FEET, TO A POINT ON THE SOUTHERLY BOUNDARY OF THE PUMPING STATION RIGHT OF WAY (EXHIBIT 3) BEING THE **POINT OF TERMINUS**.

SAID PARCEL CONTAINING 40.06 ACRES ON THE ARIZONA STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (0202), NORTH AMERICAN DATUM OF 1983, EPOCH 2007 AND BEING 40.09 GROUND (SURFACE) ACRES.



EXPIRES 3/31/2013

EXHIBIT 7  
POWER AND COMMUNICATION LINES  
FROM PUMPING PLANT SITE TO PLANT SITE

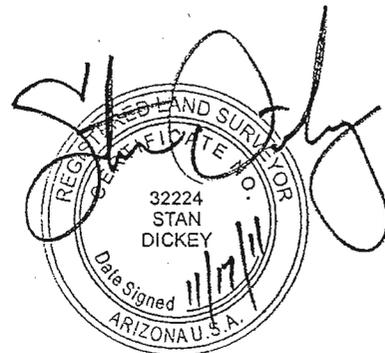
THE FOLLOWING PARCEL BEING DESCRIBED IN THE ARIZONA STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (0202), NORTH AMERICAN DATUM OF 1983, EPOCH 2007. A GRID TO GROUND SCALE FACTOR OF 1.000280158 WAS USED TO CALCULATE THE GROUND (SURFACE) ACREAGES. GRID ACREAGES ARE MULTIPLIED BY THE GRID TO GROUND SCALE FACTOR SQUARED (1.000560394) TO PRODUCE GROUND (SURFACE) ACREAGES.

A RIGHT OF WAY EXTENDING FROM THE WESTERLY BOUNDARY OF PLANT SITE RIGHT OF WAY (EXHIBIT 1) TO THE SOUTHEASTERLY BOUNDARY OF THE PUMPING STATION RIGHT OF WAY (EXHIBIT 3), THROUGH OR ACROSS SECTIONS 15, 22, 26, 27 AND 35 (UNSURVEYED), TOWNSHIP 41 NORTH, RANGE 9 EAST, GILA AND SALT RIVER MERIDIAN, COCONINO COUNTY, ARIZONA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

A 25 FOOT WIDE STRIP LYING ADJACENT TO AND PARALLEL AND CONTIGUOUS WITH THE EASTERLY LINE OF THE RIGHT OF WAY DESCRIBED IN EXHIBIT 6.

SAID EXHIBIT DESCRIBING THE RIGHT OF WAY FOR PUMPING PLANT ACCESS ROAD AND WATER PIPELINE FROM PUMPING PLANT SITE TO PLANT SITE.

SAID PARCEL CONTAINING 9.06 ACRES ON THE ARIZONA STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (0202), NORTH AMERICAN DATUM OF 1983, EPOCH 2007 AND BEING 9.07 GROUND (SURFACE) ACRES.



EXPIRES 3/31/2013

EXHIBIT 8  
RAIL LOADING SITE

THE FOLLOWING PARCEL BEING DESCRIBED WITH GRID DISTANCES AND BEARINGS IN THE ARIZONA STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (0202), NORTH AMERICAN DATUM OF 1983, EPOCH 2007. A GRID TO GROUND SCALE FACTOR OF 1.000246681 WAS USED TO CALCULATE THE GROUND (SURFACE) ACREAGES. GRID ACREAGES ARE MULTIPLIED BY THE GRID TO GROUND SCALE FACTOR SQUARED (1.000493423) TO PRODUCE GROUND (SURFACE) ACREAGES.

A PARCEL OF LAND LOCATED IN SECTIONS 4 AND 5 (UNSURVEYED), TOWNSHIP 36 NORTH, RANGE 17 EAST, AND SECTION 33 (UNSURVEYED), TOWNSHIP 37 NORTH, RANGE 17 EAST, GILA AND SALT RIVER MERIDIAN, NAVAJO COUNTY, ARIZONA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

**COMMENCING** AT THE NATIONAL GEODETIC SURVEY'S TRIANGULATION STATION DESIGNATED AS "COAL MINE" (PID GP0632), BEING A BRASS DISK SET IN CONCRETE MARKED "COAL MINE 1951", FROM WHICH THE NATIONAL GEODETIC SURVEY'S TRIANGULATION STATION DESIGNATED AS "DEVIL" (PID GP0651), BEING AN ALUMINUM DISK SET IN CONCRETE MARKED "DEVIL 1970", BEARS SOUTH 55°40'50" WEST A DISTANCE OF 8694.38 FEET;

THENCE NORTH 54°29'41" WEST, A DISTANCE OF 8276.44 FEET, TO THE **POINT OF BEGINNING**, BEING A BRASS CAP MARKED "E V MILLER PE148";

THENCE SOUTH 61°19'09" WEST, A DISTANCE OF 2085.77 FEET, TO A BRASS CAP MARKED "E V MILLER PE148";

THENCE NORTH 28°38'27" WEST, A DISTANCE OF 2085.93 FEET;

THENCE NORTH 61°19'09" EAST, A DISTANCE OF 2085.77 FEET, TO A BRASS CAP MARKED "E V MILLER PE148";

THENCE SOUTH 28°38'27" EAST, A DISTANCE OF 2085.93 FEET, TO THE **POINT OF BEGINNING**.

SAID PARCEL CONTAINING 99.88 ACRES ON THE ARIZONA STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (0202), NORTH AMERICAN DATUM OF 1983, EPOCH 2007 AND BEING 99.93 GROUND (SURFACE) ACRES.



EXHIBIT 9  
CONVEYOR AND COMMUNICATION LINES FROM  
RAIL LOADING FACILITIES TO PEABODY LEASED LANDS

THE FOLLOWING RIGHT OF WAY BEING DESCRIBED WITH GRID DISTANCES AND BEARINGS IN THE ARIZONA STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (0202), NORTH AMERICAN DATUM OF 1983, EPOCH 2007. A GRID TO GROUND SCALE FACTOR OF 1.000246681 WAS USED TO CALCULATE THE GROUND (SURFACE) ACREAGES. GRID ACREAGES ARE MULTIPLIED BY THE GRID TO GROUND SCALE FACTOR SQUARED (1.000493423) TO PRODUCE GROUND (SURFACE) ACREAGES.

A RIGHT OF WAY EXTENDING FROM THE RAIL LOAD SITE TO PEABODY LEASED LANDS, THROUGH OR ACROSS SECTIONS 1, 2, 3, 4 AND 12 (UNSURVEYED), TOWNSHIP 36 NORTH, RANGE 17 EAST AND SECTIONS 17 AND 18, TOWNSHIP 36 NORTH, RANGE 18 EAST, GILA AND SALT RIVER MERIDIAN, NAVAJO COUNTY, ARIZONA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

A 100 FOOT WIDE STRIP LYING 50 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE;

**COMMENCING** AT THE NATIONAL GEODETIC SURVEY'S TRIANGULATION STATION DESIGNATED AS "COAL MINE" (PID GP0632), BEING A BRASS DISK SET IN CONCRETE MARKED "COAL MINE 1951", FROM WHICH THE NATIONAL GEODETIC SURVEY'S TRIANGULATION STATION DESIGNATED AS "DEVIL" (PID GP0651), BEING AN ALUMINUM DISK SET IN CONCRETE MARKED "DEVIL 1970", BEARS SOUTH 55°40'50" WEST, A DISTANCE OF 8694.38 FEET;

THENCE NORTH 61°09'55" WEST, A DISTANCE OF 8832.51 FEET, TO A POINT ON THE SOUTHERLY BOUNDARY OF THE RAIL LOADING SITE RIGHT OF WAY (EXHIBIT 8) AND THE **POINT OF BEGINNING**;

THENCE SOUTH 73°22'23" EAST, A DISTANCE OF 10254.03 FEET;

THENCE NORTH 72°54'03" EAST, A DISTANCE OF 5125.33 FEET;

THENCE SOUTH 50°42'12" EAST, A DISTANCE OF 6304.06 FEET, TO A POINT ON THE BOUNDARY LINE OF PEABODY LEASED LANDS

THENCE CONTINUING ON SAME BEARING SOUTH 50°42'12" EAST CROSSING PEABODY LEASED LAND FOR A DISTANCE OF 4392.27 FEET, TO A POINT ON THE BOUNDARY LINE OF PEABODY LEASED LANDS;

THENCE CONTINUING ON SAME BEARING SOUTH 50°42'12" EAST LEAVING PEABODY LEASED LAND FOR A DISTANCE OF 2814.22 FEET, TO A POINT ON THE BOUNDARY LINE OF PEABODY LEASED LANDS AND BEING THE POINT OF TERMINUS;

SIDELINES BEING LENGTHENED OR SHORTENED TO FORM VERTICES AT ALL ANGLE POINTS AND TO BEGIN ON THE SOUTHERLY BOUNDARY OF THE RAIL LOADING STATION WHICH PASSES THROUGH THE POINT OF BEGINNING AND TO TERMINATE ON THE WESTERLY BOUNDARY OF PEABODY LEASED LANDS WHICH PASSES THROUGH THE POINT OF TERMINUS.

SAID PARCEL CONTAINING 66.32 ACRES ON THE ARIZONA STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (0202), NORTH AMERICAN DATUM OF 1983, EPOCH 2007 AND BEING 66.35 GROUND (SURFACE) ACRES.



32224  
STAN  
DICKEY  
Date Signed 11/17/12  
ARIZONA U.S.A.

EXPIRES 3/31/2013

EXHIBIT 10  
ZILNEZ MESA COMMUNICATION SITE

THE FOLLOWING PARCEL BEING DESCRIBED WITH GRID DISTANCES AND BEARINGS IN THE ARIZONA STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (0202), NORTH AMERICAN DATUM OF 1983, EPOCH 2007. A GRID TO GROUND SCALE FACTOR OF 1.000296598 WAS USED TO CALCULATE THE GROUND (SURFACE) ACREAGES. GRID ACREAGES ARE MULTIPLIED BY THE GRID TO GROUND SCALE FACTOR SQUARED (1.000593284) TO PRODUCE GROUND (SURFACE) ACREAGES.

A PARCEL OF LAND LOCATED IN SECTION 18 (UNSURVEYED), TOWNSHIP 39 NORTH, RANGE 16 EAST GILA AND SALT RIVER MERIDIAN, NAVAJO COUNTY, ARIZONA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

**COMMENCING** AT THE NATIONAL GEODETIC SURVEY'S TRIANGULATION STATION DESIGNATED AS "TALL MTN MICROWAVE TOWER" (PID GP0648), BEING A TRIANGULAR STEEL TOWER +/- 140 HIGH WITH MICROWAVE DISKS;

THENCE NORTH 4°00'00" WEST, A DISTANCE OF 500.00 FEET, TO THE **POINT OF BEGINNING**;

THENCE NORTH 86°00'00" EAST, A DISTANCE OF 150.00 FEET;

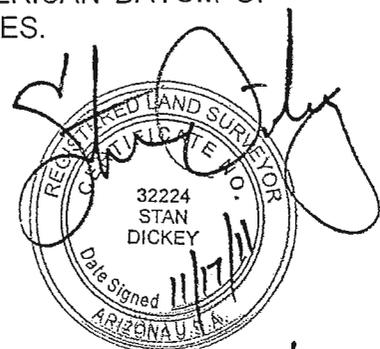
THENCE SOUTH 4°00'00" EAST, A DISTANCE OF 300.00 FEET;

THENCE SOUTH 69°30'00" WEST, A DISTANCE OF 312.88 FEET;

THENCE NORTH 4°00'00" WEST, A DISTANCE OF 388.86 FEET;

THENCE NORTH 86°00'00" EAST, A DISTANCE OF 150 FEET, TO THE **POINT OF BEGINNING**.

SAID PARCEL CONTAINING 2.37 ACRES ON THE ARIZONA STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (0202), NORTH AMERICAN DATUM OF 1983, EPOCH 2007 AND BEING 2.37 GROUND (SURFACE) ACRES.



EXPIRES 3/31/2013

EXHIBIT 11  
PRESTON MESA COMMUNICATION SITE

THE FOLLOWING PARCEL BEING DESCRIBED WITH GRID DISTANCES AND BEARINGS IN THE ARIZONA STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (0202), NORTH AMERICAN DATUM OF 1983, EPOCH 2007. A GRID TO GROUND SCALE FACTOR OF 1.000369727 WAS USED TO CALCULATE THE GROUND (SURFACE) ACREAGES. GRID ACREAGES ARE MULTIPLIED BY THE GRID TO GROUND SCALE FACTOR SQUARED (1.000739590) TO PRODUCE GROUND (SURFACE) ACREAGES.

A PARCEL OF LAND LOCATED IN SECTION 10 (UNSURVEYED), TOWNSHIP 34 NORTH, RANGE 11 EAST GILA AND SALT RIVER MERIDIAN, COCONINO COUNTY, ARIZONA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

**COMMENCING** AT THE NATIONAL GEODETIC SURVEY'S TRIANGULATION STATION DESIGNATED AS "PRESTON" (PID GP0586), BEING AN ALUMINUM DISK MARKED "PRESTON 1970";

THENCE SOUTH  $1^{\circ}20'27''$  EAST, A DISTANCE OF 7655.31 FEET, TO THE **POINT OF BEGINNING**;

THENCE SOUTH  $65^{\circ}03'06''$  EAST, A DISTANCE OF 175.94 FEET;

THENCE SOUTH  $00^{\circ}00'12''$  EAST, A DISTANCE OF 100.86 FEET;

THENCE NORTH  $65^{\circ}03'06''$  WEST, A DISTANCE OF 175.94 FEET;

THENCE SOUTH  $88^{\circ}08'07''$  WEST, A DISTANCE OF 100.46 FEET;

THENCE NORTH  $00^{\circ}28'48''$  EAST, A DISTANCE OF 88.09 FEET;

THENCE NORTH  $80^{\circ}51'16''$  EAST, A DISTANCE OF 100.94 FEET, TO THE **POINT OF BEGINNING**.

SAID PARCEL CONTAINING 0.59 ACRES ON THE ARIZONA STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (0202), NORTH AMERICAN DATUM OF 1983, EPOCH 2007 AND BEING 0.59 GROUND (SURFACE) ACRES.



EXPIRES 3/31/16

EXHIBIT 12  
BLACK MESA AND LAKE POWELL RAILROAD

THE FOLLOWING RIGHT OF WAY BEING DESCRIBED WITH GRID DISTANCES AND BEARINGS IN THE ARIZONA STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (0202), NORTH AMERICAN DATUM OF 1983, EPOCH 2007.

A RIGHT OF WAY EXTENDING FROM THE NAVAJO GENERATING STATION TO THE RAIL LOADING SITE, THROUGH OR ACROSS THE NAVAJO AND HOPI INDIAN RESERVATIONS, COCONINO AND NAVAJO COUNTIES, ARIZONA, MORE PARTICULARLY DESCRIBED AS FOLLOWS

**COMMENCING** AT THE SOUTHEAST CORNER OF SECTION 33, TOWNSHIP 41 NORTH, RANGE 9 EAST, BEING A BUREAU OF LAND MANAGEMENT BRASS CAP FROM WHICH THE NORTH EAST CORNER OF SECTION 21, TOWNSHIP 41 NORTH, RANGE 9 EAST, BEARS NORTH 00°10'50" WEST A DISTANCE OF 15870.25 FEET;

THENCE NORTH 87°11'17" EAST A DISTANCE OF 11102.17 FEET TO A POINT REFERENCED HEREIN AS STATION 0+00.00 OF THE BLACK MESA AND LAKE POWELL RAIL ROAD;

SPIRAL#1

THENCE SOUTH 22°18'41" EAST ALONG A TANGENT LINE A DISTANCE OF 130.91 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE LEFT AT STATION 1+30.91 HAVING AN INTERNAL DELTA OF 65°29'55", DEGREE OF CURVATURE (ARC) 3°00' AND AN OVERALL LENGTH OF 2633.29 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS SOUTH 55°03'38" EAST, A DISTANCE OF 2449.40 FEET.

THENCE ALONG A TRANSITION TO THE LEFT CURVE A DISTANCE OF 450.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 5+80.91 AND THE BEGINNING OF A CIRCULAR CURVE TO THE LEFT HAVING A RADIUS OF 1909.86 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 882.05 FEET THROUGH A CENTRAL ANGLE OF 26°27'41" TO STATION 14+62.96 ON THE EAST BOUNDARY OF THE NAVAJO GENERATING STATION PLANT SITE AND BEING THE **POINT OF BEGINNING** OF THE BLACK MESA AND LAKE POWELL RIGHT OF WAY;

THENCE CONTINUING ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 851.24 FEET THROUGH A CENTRAL ANGLE OF 25°32'14" TO THE CURVE TO SPIRAL (C.S.) AT STATION 23+14.19 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE LEFT A DISTANCE OF 450.00 FEET TO THE SPIRAL TO TANGENT (S.T) AT STATION 27+64.19, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#2

THENCE SOUTH  $87^{\circ}48'36''$  EAST ALONG A TANGENT LINE A DISTANCE OF 422.32 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE RIGHT AT STATION 31+86.51 HAVING AN INTERNAL DELTA OF  $49^{\circ}27'23''$ , DEGREE OF CURVATURE (ARC)  $2^{\circ}30'$  AND AN OVERALL LENGTH OF 2478.26 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS SOUTH  $63^{\circ}04'54''$  EAST, A DISTANCE OF 2375.18 FEET.

THENCE ALONG A TRANSITION CURVE TO THE RIGHT A DISTANCE OF 500.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 36+86.51 AND THE BEGINNING OF A CIRCULAR CURVE TO THE RIGHT HAVING A RADIUS OF 2291.83 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 1478.26 FEET THROUGH A CENTRAL ANGLE OF  $36^{\circ}57'23''$  TO THE CURVE TO SPIRAL (C.S.) AT STATION 51+64.77 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE RIGHT A DISTANCE OF 500.00 FEET TO THE SPIRAL TO TANGENT (S.T) AT STATION 56+64.77, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#3

THENCE SOUTH  $38^{\circ}21'13''$  EAST ALONG A TANGENT LINE A DISTANCE OF 2179.85 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE LEFT AT STATION 78+44.62 HAVING AN INTERNAL DELTA OF  $25^{\circ}22'45''$ , DEGREE OF CURVATURE (ARC)  $2^{\circ}30'$  AND AN OVERALL LENGTH OF 1515.17 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS SOUTH  $51^{\circ}02'35''$  EAST, A DISTANCE OF 1496.48 FEET.

THENCE ALONG A TRANSITION CURVE TO THE LEFT A DISTANCE OF 500.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 83+44.62 AND THE BEGINNING OF A CIRCULAR CURVE TO THE LEFT HAVING A RADIUS OF 2291.83 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 515.17 FEET THROUGH A CENTRAL ANGLE OF  $12^{\circ}52'45''$  TO THE CURVE TO SPIRAL (C.S.) AT STATION 88+59.78 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE LEFT A DISTANCE OF 500.00 FEET TO THE SPIRAL TO TANGENT (S.T) AT STATION 93+59.78 THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

#### SPIRAL#4

THENCE SOUTH  $63^{\circ}43'58''$  EAST ALONG A TANGENT LINE A DISTANCE OF 406.25 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE RIGHT AT STATION 97+66.04 HAVING AN INTERNAL DELTA OF  $46^{\circ}17'59''$ , DEGREE OF CURVATURE (ARC)  $1^{\circ}30'$  AND AN OVERALL LENGTH OF 3386.65 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS SOUTH  $40^{\circ}34'58''$  EAST, A DISTANCE OF 3279.95 FEET.

THENCE ALONG A TRANSITION CURVE TO THE RIGHT A DISTANCE OF 300.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 100+66.04 AND THE BEGINNING OF A CIRCULAR CURVE TO THE RIGHT HAVING A RADIUS OF 3819.72 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 2786.65 FEET THROUGH A CENTRAL ANGLE OF  $41^{\circ}47'59''$  TO THE CURVE TO SPIRAL (C.S.) AT STATION 128+52.68 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE RIGHT A DISTANCE OF 300.00 FEET TO THE SPIRAL TO TANGENT (S.T.) AT STATION 131+52.68, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

#### SPIRAL#5

THENCE SOUTH  $17^{\circ}25'59''$  EAST ALONG A TANGENT LINE A DISTANCE OF 1422.23 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE RIGHT AT STATION 145+74.92 HAVING AN INTERNAL DELTA OF  $09^{\circ}59'23''$ , DEGREE OF CURVATURE (ARC)  $2^{\circ}00'$  AND AN OVERALL LENGTH OF 899.49 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS SOUTH  $12^{\circ}26'17''$  EAST, A DISTANCE OF 897.68 FEET.

THENCE ALONG A TRANSITION CURVE TO THE RIGHT A DISTANCE OF 400.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 149+74.92 AND THE BEGINNING OF A CIRCULAR CURVE TO THE RIGHT HAVING A RADIUS OF 2864.79 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 99.49 FEET THROUGH A CENTRAL ANGLE OF  $1^{\circ}59'23''$  TO THE CURVE TO SPIRAL (C.S.) AT STATION 150+74.40 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE RIGHT A DISTANCE OF 400.00 FEET TO THE SPIRAL TO TANGENT (S.T.) AT STATION 154+74.40, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#6

THENCE SOUTH 07°26'36" EAST ALONG A TANGENT LINE A DISTANCE OF 2135.44 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE RIGHT AT STATION 176+09.84 HAVING AN INTERNAL DELTA OF 07°46'58", DEGREE OF CURVATURE (ARC) 1°00' AND AN OVERALL LENGTH OF 978.28 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS S 03°33'07" E, A DISTANCE OF 977.26 FEET;

THENCE ALONG A TRANSITION CURVE TO THE RIGHT A DISTANCE OF 200.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 178+09.84 AND THE BEGINNING OF A CIRCULAR CURVE TO THE RIGHT HAVING A RADIUS OF 5729.58 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 578.28 FEET THROUGH A CENTRAL ANGLE OF 5°46'58" TO THE CURVE TO SPIRAL (C.S.) AT STATION 183+88.12 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE RIGHT A DISTANCE OF 200.00 FEET TO THE SPIRAL TO TANGENT (S.T) AT STATION 185+88.12, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#7

THENCE S 00°20'22" W ALONG A TANGENT LINE A DISTANCE OF 4949.90 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE LEFT AT STATION 235+38.02 HAVING AN INTERNAL DELTA OF 25°38'26", DEGREE OF CURVATURE (ARC) 1°00' AND AN OVERALL LENGTH OF 2764.06 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS S 12°28'51" E, A DISTANCE OF 2737.86 FEET;

THENCE ALONG A TRANSITION CURVE TO THE LEFT A DISTANCE OF 200.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 237+38.02 AND THE BEGINNING OF A CIRCULAR CURVE TO THE LEFT HAVING A RADIUS OF 5729.58 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 2364.06 FEET THROUGH A CENTRAL ANGLE OF 23°38'26" TO THE CURVE TO SPIRAL (C.S.) AT STATION 261+02.07 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE LEFT A DISTANCE OF 200.00 FEET TO THE SPIRAL TO TANGENT (S.T) AT STATION 263+02.07, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#8

THENCE SOUTH 25°18'04" EAST ALONG A TANGENT LINE A DISTANCE OF 13899.48 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE RIGHT AT STATION 402+01.55 HAVING AN INTERNAL DELTA OF 14°52'29", DEGREE OF CURVATURE (ARC) 1°00' AND AN OVERALL LENGTH OF 1687.47 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS SOUTH 17°51'49" EAST, A DISTANCE OF 1681.69 FEET;

THENCE ALONG A TRANSITION CURVE TO THE RIGHT A DISTANCE OF 200.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 404+01.55 AND THE BEGINNING OF A CIRCULAR CURVE TO THE RIGHT HAVING A RADIUS OF 5729.58 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 1287.47 FEET THROUGH A CENTRAL ANGLE OF 12°52'29" TO THE CURVE TO SPIRAL (C.S.) AT STATION 416+89.03 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE RIGHT A DISTANCE OF 200.00 FEET TO THE SPIRAL TO TANGENT (S.T) AT STATION 418+89.03, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#9

THENCE SOUTH 10°25'35" EAST ALONG A TANGENT LINE A DISTANCE OF 1771.24 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE LEFT AT STATION 436+60.26 HAVING AN INTERNAL DELTA OF 22°33'55", DEGREE OF CURVATURE (ARC) 1°00' AND AN OVERALL LENGTH OF 2456.53 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS SOUTH 21°42'32" EAST, A DISTANCE OF 2438.22 FEET;

THENCE ALONG A TRANSITION CURVE TO THE LEFT A DISTANCE OF 200.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 438+60.26 AND THE BEGINNING OF A CIRCULAR CURVE TO THE LEFT HAVING A RADIUS OF 5729.58 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 2056.53 FEET THROUGH A CENTRAL ANGLE OF 20°33'55" TO THE CURVE TO SPIRAL (C.S.) AT STATION 459+16.79 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE LEFT A DISTANCE OF 200.00 FEET TO THE SPIRAL TO TANGENT (S.T) AT STATION 461+16.79, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#10

THENCE S 32°59'30" E ALONG A TANGENT LINE A DISTANCE OF 4862.76 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE RIGHT AT STATION 509+79.55 HAVING AN INTERNAL DELTA OF 62°50'04", DEGREE OF CURVATURE (ARC) 2°00' AND AN OVERALL LENGTH OF 3541.72 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS S 01°34'28" E, A DISTANCE OF 3330.36 FEET;

THENCE ALONG A TRANSITION CURVE TO THE RIGHT A DISTANCE OF 400.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 513+79.55 AND THE BEGINNING OF A CIRCULAR CURVE TO THE RIGHT HAVING A RADIUS OF 2864.79 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 2741.72 FEET THROUGH A CENTRAL ANGLE OF 54°50'04" TO THE CURVE TO SPIRAL (C.S.) AT STATION 541+21.27 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE RIGHT A DISTANCE OF 400.00 FEET TO THE SPIRAL TO TANGENT (S.T) AT STATION 545+21.27, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#11

THENCE S 29°50'34" W ALONG A TANGENT LINE A DISTANCE OF 1542.95 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE LEFT AT STATION 560+64.22 HAVING AN INTERNAL DELTA OF 18°11'20", DEGREE OF CURVATURE (ARC) 1°30' AND AN OVERALL LENGTH OF 1512.59 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS S 20°44'54" W , A DISTANCE OF 1504.03FEET;

THENCE ALONG A TRANSITION CURVE TO THE LEFT A DISTANCE OF 300.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 563+64.22 AND THE BEGINNING OF A CIRCULAR CURVE TO THE LEFT HAVING A RADIUS OF 3819.72 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 912.60 FEET THROUGH A CENTRAL ANGLE OF 13°41'20" TO THE CURVE TO SPIRAL (C.S.) AT STATION 572+76.82 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE LEFT A DISTANCE OF 300.00 FEET TO THE SPIRAL TO TANGENT (S.T) AT STATION 575+76.82, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#12

THENCE SOUTH  $11^{\circ}39'14''$  WEST ALONG A TANGENT LINE A DISTANCE OF 5664.67 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE LEFT AT STATION 632+41.48 HAVING AN INTERNAL DELTA OF  $15^{\circ}26'49''$ , DEGREE OF CURVATURE (ARC)  $1^{\circ}00'$  AND AN OVERALL LENGTH OF 1744.70 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS SOUTH  $03^{\circ}55'50''$  WEST, A DISTANCE OF 1738.28 FEET;

THENCE ALONG A TRANSITION CURVE TO THE LEFT A DISTANCE OF 200.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 634+41.48 AND THE BEGINNING OF A CIRCULAR CURVE TO THE LEFT HAVING A RADIUS OF 5729.58 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 1344.69 FEET THROUGH A CENTRAL ANGLE OF  $13^{\circ}26'49''$  TO THE CURVE TO SPIRAL (C.S.) AT STATION 647+86.18 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE LEFT A DISTANCE OF 200.00 FEET TO THE SPIRAL TO TANGENT (S.T) AT STATION 649+86.18, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#13

THENCE SOUTH  $03^{\circ}47'35''$  EAST ALONG A TANGENT LINE A DISTANCE OF 3546.81 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE LEFT AT STATION 685+32.98 HAVING AN INTERNAL DELTA OF  $15^{\circ}37'44''$ , DEGREE OF CURVATURE (ARC)  $0^{\circ}30'$  AND AN OVERALL LENGTH OF 3225.78 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS S  $11^{\circ}36'27''$  E, A DISTANCE OF 3215.18 FEET;

THENCE ALONG A TRANSITION CURVE TO THE LEFT A DISTANCE OF 100.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 686+32.98 AND THE BEGINNING OF A CIRCULAR CURVE TO THE LEFT HAVING A RADIUS OF 11459.16 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 3025.78 FEET THROUGH A CENTRAL ANGLE OF  $15^{\circ}07'44''$  TO THE CURVE TO SPIRAL (C.S.) AT STATION 716+58.76 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE LEFT A DISTANCE OF 100.00 FEET TO THE SPIRAL TO TANGENT (S.T) AT STATION 717+58.76, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#14

THENCE SOUTH  $19^{\circ}25'19''$  EAST ALONG A TANGENT LINE A DISTANCE OF 4426.28 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE LEFT AT STATION 761+85.04 HAVING AN INTERNAL DELTA OF  $13^{\circ}49'43''$ , DEGREE OF CURVATURE (ARC)  $0^{\circ}30'$  AND AN OVERALL LENGTH OF 2865.72 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS SOUTH  $26^{\circ}20'10''$  EAST, A DISTANCE OF 2858.30 FEET;

THENCE ALONG A TRANSITION CURVE TO THE LEFT A DISTANCE OF 100.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 762+85.04 AND THE BEGINNING OF A CIRCULAR CURVE TO THE LEFT HAVING A RADIUS OF 11459.16 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 2665.72 FEET THROUGH A CENTRAL ANGLE OF  $13^{\circ}19'43''$  TO THE CURVE TO SPIRAL (C.S.) AT STATION 789+50.76 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE LEFT A DISTANCE OF 100.00 FEET TO THE SPIRAL TO TANGENT (S.T.) AT STATION 790+50.76, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#15

THENCE SOUTH  $33^{\circ}15'02''$  EAST ALONG A TANGENT LINE A DISTANCE OF 13541.91 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE RIGHT AT STATION 925+92.67 HAVING AN INTERNAL DELTA OF  $16^{\circ}31'02''$ , DEGREE OF CURVATURE (ARC)  $0^{\circ}30'$  AND AN OVERALL LENGTH OF 3403.44 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS SOUTH  $24^{\circ}59'31''$  EAST, A DISTANCE OF 3390.99 FEET;

THENCE ALONG A TRANSITION CURVE TO THE RIGHT A DISTANCE OF 100.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 926+92.67 AND THE BEGINNING OF A CIRCULAR CURVE TO THE RIGHT HAVING A RADIUS OF 11459.16 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 3203.44 FEET THROUGH A CENTRAL ANGLE OF  $16^{\circ}01'02''$  TO THE CURVE TO SPIRAL (C.S.) AT STATION 958+96.12 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE RIGHT A DISTANCE OF 100.00 FEET TO THE SPIRAL TO TANGENT (S.T.) AT STATION 959+96.12, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#16

THENCE SOUTH  $16^{\circ}44'00''$  EAST ALONG A TANGENT LINE A DISTANCE OF 971.58 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE LEFT AT STATION 969+67.70 HAVING AN INTERNAL DELTA OF  $33^{\circ}05'40''$ , DEGREE OF CURVATURE (ARC)  $1^{\circ}00'$  AND AN OVERALL LENGTH OF 3509.44 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS SOUTH  $33^{\circ}16'50''$  EAST, A DISTANCE OF 3455.51 FEET;

THENCE ALONG A TRANSITION CURVE TO THE LEFT A DISTANCE OF 200.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 971+67.70 AND THE BEGINNING OF A CIRCULAR CURVE TO THE LEFT HAVING A RADIUS OF 5729.58 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 3109.44 FEET THROUGH A CENTRAL ANGLE OF  $31^{\circ}05'40''$  TO THE CURVE TO SPIRAL (C.S.) AT STATION 1002+77.14 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE LEFT A DISTANCE OF 200.00 FEET TO THE SPIRAL TO TANGENT (S.T) AT STATION 1004+77.14, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#17

THENCE SOUTH  $49^{\circ}49'40''$  EAST ALONG A TANGENT LINE A DISTANCE OF 2987.80 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE RIGHT AT STATION 1034+64.95 HAVING AN INTERNAL DELTA OF  $39^{\circ}43'40''$ , DEGREE OF CURVATURE (ARC)  $1^{\circ}00'$  AND AN OVERALL LENGTH OF 4172.78 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS SOUTH  $29^{\circ}57'50''$  EAST, A DISTANCE OF 4081.97 FEET;

THENCE ALONG A TRANSITION CURVE TO THE RIGHT A DISTANCE OF 200.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 1036+64.95 AND THE BEGINNING OF A CIRCULAR CURVE TO THE RIGHT HAVING A RADIUS OF 5729.58 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 3772.78 FEET THROUGH A CENTRAL ANGLE OF  $37^{\circ}43'40''$  TO THE CURVE TO SPIRAL (C.S.) AT STATION 1074+37.72 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE RIGHT A DISTANCE OF 200.00 FEET TO THE SPIRAL TO TANGENT (S.T) AT STATION 1076+37.72, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#18

THENCE SOUTH 10°06'00" EAST ALONG A TANGENT LINE A DISTANCE OF 430.57 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE LEFT AT STATION 1080+68.29 HAVING AN INTERNAL DELTA OF 20°26'54", DEGREE OF CURVATURE (ARC) 1°00' AND AN OVERALL LENGTH OF 2244.83 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS SOUTH 20°19'27" EAST, A DISTANCE OF 2230.92 FEET;-

THENCE ALONG A TRANSITION CURVE A DISTANCE OF 200.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 1082+68.29 AND THE BEGINNING OF A CIRCULAR CURVE TO THE LEFT HAVING A RADIUS OF 5729.58 FEET;

THENCE ALONG SAID CIRCULAR CURVE TO THE LEFT AN ARC DISTANCE OF 1844.83 FEET THROUGH A CENTRAL ANGLE OF 18°26'54" TO THE CURVE TO SPIRAL (C.S.) AT STATION 1101+13.12 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE LEFT A DISTANCE OF 200.00 FEET TO THE SPIRAL TO TANGENT (S.T) AT STATION 1103+13.12, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#19

THENCE SOUTH 30°32'54" EAST ALONG A TANGENT LINE A DISTANCE OF 3987.00 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE LEFT AT STATION 1143+00.12 HAVING AN INTERNAL DELTA OF 35°33'25", DEGREE OF CURVATURE (ARC) 0°30' AND AN OVERALL LENGTH OF 7211.39 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS SOUTH 48°19'36" EAST, A DISTANCE OF 7093.07 FEET;

THENCE ALONG A TRANSITION CURVE TO THE LEFT A DISTANCE OF 100.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 1144+00.12 AND THE BEGINNING OF A CIRCULAR CURVE TO THE LEFT HAVING A RADIUS OF 11459.16 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 7011.39 FEET THROUGH A CENTRAL ANGLE OF 35°03'25" TO THE CURVE TO SPIRAL (C.S.) AT STATION 1214+11.51 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE LEFT A DISTANCE OF 100.00 FEET TO THE SPIRAL TO TANGENT (S.T) AT STATION 1215+11.51, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#20

THENCE SOUTH 66°06'19" EAST ALONG A TANGENT LINE A DISTANCE OF 2375.13 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE RIGHT AT STATION 1238+86.63 HAVING AN INTERNAL DELTA OF 48°32'28", DEGREE OF CURVATURE (ARC) 1°30' AND AN OVERALL LENGTH OF 3536.08 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS SOUTH 41°50'05" EAST, A DISTANCE OF 3414.44 FEET;

THENCE ALONG A TRANSITION CURVE TO THE RIGHT A DISTANCE OF 300.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 1241+86.63 AND THE BEGINNING OF A CIRCULAR CURVE TO THE RIGHT HAVING A RADIUS OF 3819.72 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 2936.08 FEET THROUGH A CENTRAL ANGLE OF 44°02'28" TO THE CURVE TO SPIRAL (C.S.) AT STATION 1271+22.71 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE RIGHT A DISTANCE OF 300.00 FEET TO THE SPIRAL TO TANGENT (S.T) AT STATION 1274+22.71, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#21

THENCE SOUTH 17°33'51" EAST ALONG A TANGENT LINE A DISTANCE OF 798.05 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE LEFT AT STATION 1282+20.76 HAVING AN INTERNAL DELTA OF 13°58'10", DEGREE OF CURVATURE (ARC) 1°30' AND AN OVERALL LENGTH OF 1231.30 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS SOUTH 24°32'56" EAST, A DISTANCE OF 1226.99 FEET;

THENCE ALONG A TRANSITION CURVE TO THE LEFT A DISTANCE OF 300.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 1285+20.76 AND THE BEGINNING OF A CIRCULAR CURVE TO THE LEFT HAVING A RADIUS OF 3819.72 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 631.30 FEET THROUGH A CENTRAL ANGLE OF 09°28'10" TO THE CURVE TO SPIRAL (C.S.) AT STATION 1291+52.06 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE LEFT A DISTANCE OF 300.00 FEET TO THE SPIRAL TO TANGENT (S.T) AT STATION 1294+52.06, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#22

THENCE SOUTH  $31^{\circ}32'01''$  EAST ALONG A TANGENT LINE A DISTANCE OF 5957.40 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE LEFT AT STATION 1354+09.45 HAVING AN INTERNAL DELTA OF  $57^{\circ}57'04''$ , DEGREE OF CURVATURE (ARC)  $2^{\circ}00'$  AND AN OVERALL LENGTH OF 3297.56 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS SOUTH  $60^{\circ}30'33''$  EAST, A DISTANCE OF 3127.75 FEET;

THENCE ALONG A TRANSITION CURVE TO THE LEFT A DISTANCE OF 400.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 1358+09.45 AND THE BEGINNING OF A CIRCULAR CURVE TO THE LEFT HAVING A RADIUS OF 2864.79 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 2497.56 FEET THROUGH A CENTRAL ANGLE OF  $49^{\circ}57'04''$  TO THE CURVE TO SPIRAL (C.S.) AT STATION 1383+07.01 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE LEFT A DISTANCE OF 400.00 FEET TO THE SPIRAL TO TANGENT (S.T) AT STATION 1387+07.01, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#23

THENCE SOUTH  $89^{\circ}29'05''$  EAST ALONG A TANGENT LINE A DISTANCE OF 1795.22 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE RIGHT AT STATION 1405+02.24 HAVING AN INTERNAL DELTA OF  $63^{\circ}18'26''$ , DEGREE OF CURVATURE (ARC)  $1^{\circ}30'$  AND AN OVERALL LENGTH OF 4520.48 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS SOUTH  $57^{\circ}49'52''$  EAST, A DISTANCE OF 4265.43 FEET;

THENCE ALONG A TRANSITION CURVE TO THE RIGHT A DISTANCE OF 300.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 1408+02.24 AND THE BEGINNING OF A CIRCULAR CURVE TO THE RIGHT HAVING A RADIUS OF 3819.72 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 3920.48 FEET THROUGH A CENTRAL ANGLE OF  $58^{\circ}48'26''$  TO THE CURVE TO SPIRAL (C.S.) AT STATION 1447+22.72 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE RIGHT A DISTANCE OF 300.00 FEET TO THE SPIRAL TO TANGENT (S.T) AT STATION 1450+22.72, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#24

THENCE SOUTH  $26^{\circ}10'39''$  EAST ALONG A TANGENT LINE A DISTANCE OF 2646.83 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE LEFT AT STATION 1476+69.54 HAVING AN INTERNAL DELTA OF  $87^{\circ}17'04''$ , DEGREE OF CURVATURE (ARC)  $1^{\circ}30'$  AND AN OVERALL LENGTH OF 6118.96 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS SOUTH  $69^{\circ}49'11''$  EAST, A DISTANCE OF 5490.82 FEET;

THENCE ALONG A TRANSITION CURVE TO THE LEFT A DISTANCE OF 300.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 1479+69.54 AND THE BEGINNING OF A CIRCULAR CURVE TO THE LEFT HAVING A RADIUS OF 3819.72 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 5518.96 FEET THROUGH A CENTRAL ANGLE OF  $82^{\circ}47'04''$  TO THE CURVE TO SPIRAL (C.S.) AT STATION 1534+88.51 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE LEFT A DISTANCE OF 300.00 FEET TO THE SPIRAL TO TANGENT (S.T) AT STATION 1537+88.51, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#25

THENCE NORTH  $66^{\circ}32'17''$  EAST ALONG A TANGENT LINE A DISTANCE OF 4258.59 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE RIGHT AT STATION 1580+47.10 HAVING AN INTERNAL DELTA OF  $78^{\circ}53'39''$ , DEGREE OF CURVATURE (ARC)  $2^{\circ}30''$  AND AN OVERALL LENGTH OF 3655.77 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS SOUTH  $74^{\circ}00'53''$  EAST, A DISTANCE OF 3304.03 FEET;

THENCE ALONG A TRANSITION CURVE TO THE RIGHT A DISTANCE OF 500.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 1585+47.10 AND THE BEGINNING OF A CIRCULAR CURVE TO THE RIGHT HAVING A RADIUS OF 2291.83 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 2655.77 FEET THROUGH A CENTRAL ANGLE OF  $66^{\circ}23'39''$  TO THE CURVE TO SPIRAL (C.S.) AT STATION 1612+02.87 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE RIGHT A DISTANCE OF 500.00 FEET TO THE SPIRAL TO TANGENT (S.T) AT STATION 1617+02.87, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#26

THENCE SOUTH  $34^{\circ}34'04''$  EAST ALONG A TANGENT LINE A DISTANCE OF 3844.58 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE RIGHT AT STATION 1655+47.45 HAVING AN INTERNAL DELTA OF  $72^{\circ}02'15''$ , DEGREE OF CURVATURE (ARC)  $1^{\circ}30'$  AND AN OVERALL LENGTH OF 5102.50 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS SOUTH  $01^{\circ}27'04''$  WEST, A DISTANCE OF 4736.16 FEET;

THENCE ALONG A TRANSITION CURVE TO THE RIGHT A DISTANCE OF 300.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 1658+47.45 AND THE BEGINNING OF A CIRCULAR CURVE TO THE RIGHT HAVING A RADIUS OF 3819.72 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 4502.50 FEET THROUGH A CENTRAL ANGLE OF  $67^{\circ}32'15''$  TO THE CURVE TO SPIRAL (C.S.) AT STATION 1703+49.95 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE RIGHT A DISTANCE OF 300.00 FEET TO THE SPIRAL TO TANGENT (S.T) AT STATION 1706+49.95, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#27

THENCE SOUTH  $37^{\circ}28'11''$  WEST ALONG A TANGENT LINE A DISTANCE OF 2500.08 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE LEFT AT STATION 1731+50.02 HAVING AN INTERNAL DELTA OF  $31^{\circ}25'08''$ , DEGREE OF CURVATURE (ARC)  $1^{\circ}00'$  AND AN OVERALL LENGTH OF 3341.89 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS SOUTH  $21^{\circ}45'37''$  WEST, A DISTANCE OF 3295.36 FEET;

THENCE ALONG A TRANSITION CURVE TO THE LEFT A DISTANCE OF 200.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 1733+50.02 AND THE BEGINNING OF A CIRCULAR CURVE TO THE LEFT HAVING A RADIUS OF 5729.58 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 2941.89 FEET THROUGH A CENTRAL ANGLE OF  $29^{\circ}25'08''$  TO THE CURVE TO SPIRAL (C.S.) AT STATION 1762+91.91 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE LEFT A DISTANCE OF 200.00 FEET TO THE SPIRAL TO TANGENT (S.T) AT STATION 1764+91.91, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#28

THENCE SOUTH  $06^{\circ}03'03''$  WEST ALONG A TANGENT LINE A DISTANCE OF 10488.47 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE LEFT AT STATION 1869+80.39 HAVING AN INTERNAL DELTA OF  $13^{\circ}31'41''$ , DEGREE OF CURVATURE (ARC)  $1^{\circ}00'$  AND AN OVERALL LENGTH OF 1552.81 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS SOUTH  $00^{\circ}42'47''$  EAST, A DISTANCE OF 1548.34 FEET;

THENCE ALONG A TRANSITION CURVE TO THE LEFT A DISTANCE OF 200.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 1871+80.39 AND THE BEGINNING OF A CIRCULAR CURVE TO THE LEFT HAVING A RADIUS OF 5729.58 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 1152.81 FEET THROUGH A CENTRAL ANGLE OF  $11^{\circ}31'41''$  TO THE CURVE TO SPIRAL (C.S.) AT STATION 1883+33.19 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE LEFT A DISTANCE OF 200.00 FEET TO THE SPIRAL TO TANGENT (S.T.) AT STATION 1885+33.19, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#29

THENCE SOUTH  $07^{\circ}28'38''$  EAST ALONG A TANGENT LINE A DISTANCE OF 6047.04 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE LEFT AT STATION 1945+80.23 HAVING AN INTERNAL DELTA OF  $78^{\circ}57'04''$ , DEGREE OF CURVATURE (ARC)  $1^{\circ}30'$  AND AN OVERALL LENGTH OF 5563.41 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS SOUTH  $46^{\circ}57'10''$  EAST, A DISTANCE OF 5089.57 FEET;

THENCE ALONG A TRANSITION CURVE TO THE LEFT A DISTANCE OF 300.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 1948+80.23 AND THE BEGINNING OF A CIRCULAR CURVE TO THE LEFT HAVING A RADIUS OF 3819.72 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 4963.41 FEET THROUGH A CENTRAL ANGLE OF  $74^{\circ}27'04''$  TO THE CURVE TO SPIRAL (C.S.) AT STATION 1998+43.64 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE LEFT A DISTANCE OF 300.00 FEET TO THE SPIRAL TO TANGENT (S.T.) AT STATION 2001+43.64, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#30

THENCE SOUTH  $86^{\circ}25'42''$  EAST ALONG A TANGENT LINE A DISTANCE OF 6388.53 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE RIGHT AT STATION 2065+32.16 HAVING AN INTERNAL DELTA OF  $80^{\circ}02'48''$ , DEGREE OF CURVATURE (ARC)  $1^{\circ}00'$  AND AN OVERALL LENGTH OF 8204.67 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS SOUTH  $46^{\circ}24'18''$  EAST, A DISTANCE OF 7522.91 FEET;

THENCE ALONG A TRANSITION CURVE TO THE RIGHT A DISTANCE OF 200.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 2067+32.16 AND THE BEGINNING OF A CIRCULAR CURVE TO THE RIGHT HAVING A RADIUS OF 5729.58 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 7804.67 FEET THROUGH A CENTRAL ANGLE OF  $78^{\circ}02'48''$  TO THE CURVE TO SPIRAL (C.S.) AT STATION 2145+36.83 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE RIGHT A DISTANCE OF 200.00 FEET TO THE SPIRAL TO TANGENT (S.T) AT STATION 2147+36.83, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#31

THENCE SOUTH  $06^{\circ}22'54''$  EAST ALONG A TANGENT LINE A DISTANCE OF 394.29 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE LEFT AT STATION 2151+31.12 HAVING AN INTERNAL DELTA OF  $25^{\circ}59'22''$ , DEGREE OF CURVATURE (ARC)  $1^{\circ}30'$  AND AN OVERALL LENGTH OF 2032.63 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS SOUTH  $19^{\circ}22'35''$  EAST, A DISTANCE OF 2010.56 FEET;

THENCE ALONG A TRANSITION CURVE TO THE LEFT A DISTANCE OF 300.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 2154+31.12 AND THE BEGINNING OF A CIRCULAR CURVE TO THE LEFT HAVING A RADIUS OF 3819.72 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 1432.63 FEET THROUGH A CENTRAL ANGLE OF  $21^{\circ}29'22''$  TO THE CURVE TO SPIRAL (C.S.) AT STATION 2168+63.75 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE LEFT A DISTANCE OF 300.00 FEET TO THE SPIRAL TO TANGENT (S.T) AT STATION 2171+63.75, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#32

THENCE SOUTH  $32^{\circ}22'16''$  EAST ALONG A TANGENT LINE A DISTANCE OF 10226.90 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE LEFT AT STATION 2273+90.65 HAVING AN INTERNAL DELTA OF  $77^{\circ}34'56''$ , DEGREE OF CURVATURE (ARC)  $2^{\circ}30'$  AND AN OVERALL LENGTH OF 3603.29 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS SOUTH  $71^{\circ}09'44''$  EAST, A DISTANCE OF 3266.84 FEET;

THENCE ALONG A TRANSITION CURVE A DISTANCE OF 500.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 2278+90.65 AND THE BEGINNING OF A CIRCULAR CURVE TO THE LEFT HAVING A RADIUS OF 2291.83 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 2603.29 FEET THROUGH A CENTRAL ANGLE OF  $65^{\circ}04'56''$  TO THE CURVE TO SPIRAL (C.S.) AT STATION 2304+93.94 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE A DISTANCE OF 500.00 FEET TO THE SPIRAL TO TANGENT (S.T) AT STATION 2309+93.94, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#33

THENCE NORTH  $70^{\circ}02'48''$  EAST ALONG A TANGENT LINE A DISTANCE OF 1151.25 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE RIGHT AT STATION 2321+45.19 HAVING AN INTERNAL DELTA OF  $33^{\circ}45'11''$ , DEGREE OF CURVATURE (ARC)  $2^{\circ}30'$  AND AN OVERALL LENGTH OF 1787.62 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS NORTH  $86^{\circ}23'33''$  EAST, A DISTANCE OF 1751.34 FEET;

THENCE ALONG A TRANSITION CURVE TO THE RIGHT A DISTANCE OF 500.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 2326+45.19 AND THE BEGINNING OF A CIRCULAR CURVE TO THE RIGHT HAVING A RADIUS OF 2291.83 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 912.62 FEET THROUGH A CENTRAL ANGLE OF  $22^{\circ}48'56''$  TO THE CURVE TO SPIRAL (C.S.) AT STATION 2335+57.81 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE RIGHT A DISTANCE OF 375.00 FEET TO THE SPIRAL TO TANGENT (S.T) AT STATION 2339+32.81, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#34

THENCE SOUTH  $76^{\circ}12'01''$  EAST ALONG A TANGENT LINE A DISTANCE OF 188.43 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE LEFT AT STATION 2341+21.24 HAVING AN INTERNAL DELTA OF  $36^{\circ}10'06''$ , DEGREE OF CURVATURE (ARC)  $2^{\circ}30'$  AND AN OVERALL LENGTH OF 1946.73 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS NORTH  $85^{\circ}42'56''$  EAST, A DISTANCE OF 1900.77 FEET;

THENCE ALONG A TRANSITION CURVE TO THE LEFT A DISTANCE OF 500.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 2346+21.24 AND THE BEGINNING OF A CIRCULAR CURVE TO THE LEFT HAVING A RADIUS OF 2291.83 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 946.73 FEET THROUGH A CENTRAL ANGLE OF  $23^{\circ}40'06''$  TO THE CURVE TO SPIRAL (C.S.) AT STATION 2355+67.97 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE LEFT A DISTANCE OF 500.00 FEET TO THE SPIRAL TO TANGENT (S.T) AT STATION 2360+67.97, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#35

THENCE NORTH  $67^{\circ}37'53''$  EAST ALONG A TANGENT LINE A DISTANCE OF 273.45 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE RIGHT AT STATION 2363+41.42 HAVING AN INTERNAL DELTA OF  $35^{\circ}35'13''$ , DEGREE OF CURVATURE (ARC)  $2^{\circ}30'$  AND AN OVERALL LENGTH OF 1923.48 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS NORTH  $85^{\circ}25'30''$  EAST, A DISTANCE OF 1879.38 FEET;

THENCE ALONG A TRANSITION CURVE A DISTANCE OF 500.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 2368+41.42 AND THE BEGINNING OF A CIRCULAR CURVE TO THE RIGHT HAVING A RADIUS OF 2291.83 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 923.48 FEET THROUGH A CENTRAL ANGLE OF  $23^{\circ}05'13''$  TO THE CURVE TO SPIRAL (C.S.) AT STATION 2377+64.90 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE A DISTANCE OF 500.00 FEET TO THE SPIRAL TO TANGENT (S.T) AT STATION 2382+64.90, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#36

THENCE SOUTH  $76^{\circ}46'54''$  EAST ALONG A TANGENT LINE A DISTANCE OF 305.40 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE LEFT AT STATION 2385+70.29 HAVING AN INTERNAL DELTA OF  $44^{\circ}04'07''$ , DEGREE OF CURVATURE (ARC)  $2^{\circ}30'$  AND AN OVERALL LENGTH OF 2262.74 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS NORTH  $81^{\circ}11'03''$  EAST, A DISTANCE OF 2186.319 FEET;

THENCE ALONG A TRANSITION CURVE TO THE LEFT A DISTANCE OF 500.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 2390+70.29 AND THE BEGINNING OF A CIRCULAR CURVE TO THE LEFT HAVING A RADIUS OF 2291.83 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 1262.74 FEET THROUGH A CENTRAL ANGLE OF  $31^{\circ}34'07''$  TO THE CURVE TO SPIRAL (C.S.) AT STATION 2403+33.04 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE LEFT A DISTANCE OF 500.00 FEET TO THE SPIRAL TO TANGENT (S.T) AT STATION 2408+33.04, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#37

THENCE NORTH  $59^{\circ}08'59''$  EAST ALONG A TANGENT LINE A DISTANCE OF 1596.56 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE RIGHT AT STATION 2424+29.60 HAVING AN INTERNAL DELTA OF  $26^{\circ}46'44''$ , DEGREE OF CURVATURE (ARC)  $0^{\circ}45'$  AND AN OVERALL LENGTH OF 3720.52 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS NORTH  $72^{\circ}32'21''$  EAST, A DISTANCE OF 3684.09 FEET;

THENCE ALONG A TRANSITION CURVE TO THE RIGHT A DISTANCE OF 150.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 2425+79.60 AND THE BEGINNING OF A CIRCULAR CURVE TO THE RIGHT HAVING A RADIUS OF 7639.44 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 3420.52 FEET THROUGH A CENTRAL ANGLE OF  $25^{\circ}39'14''$  TO THE CURVE TO SPIRAL (C.S.) AT STATION 2460+00.12 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE RIGHT A DISTANCE OF 150.00 FEET TO THE SPIRAL TO TANGENT (S.T) AT STATION 2461+50.12, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#38

THENCE NORTH  $85^{\circ}55'43''$  EAST ALONG A TANGENT LINE A DISTANCE OF 9957.64 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE RIGHT AT STATION 2561+07.76 HAVING AN INTERNAL DELTA OF  $56^{\circ}44'10''$ , DEGREE OF CURVATURE (ARC)  $2^{\circ}00'$  AND AN OVERALL LENGTH OF 3236.81 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS SOUTH  $65^{\circ}42'12''$  EAST, A DISTANCE OF 3076.44 FEET;

THENCE ALONG A TRANSITION CURVE TO THE RIGHT A DISTANCE OF 400.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 2565+07.76 AND THE BEGINNING OF A CIRCULAR CURVE TO THE RIGHT HAVING A RADIUS OF 2864.79 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 2436.81 FEET THROUGH A CENTRAL ANGLE OF  $48^{\circ}44'10''$  TO THE CURVE TO SPIRAL (C.S.) AT STATION 2589+44.57 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE RIGHT A DISTANCE OF 400.00 FEET TO THE SPIRAL TO TANGENT (S.T.) AT STATION 2593+44.57, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#39

THENCE SOUTH  $37^{\circ}20'07''$  EAST ALONG A TANGENT LINE A DISTANCE OF 919.51 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE LEFT AT STATION 2602+64.08 HAVING AN INTERNAL DELTA OF  $36^{\circ}39'46''$ , DEGREE OF CURVATURE (ARC)  $1^{\circ}30'$  AND AN OVERALL LENGTH OF 2744.19 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS SOUTH  $55^{\circ}40'00''$  EAST, A DISTANCE OF 2688.08 FEET;

THENCE ALONG A TRANSITION CURVE TO THE LEFT A DISTANCE OF 300.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 2605+64.08 AND THE BEGINNING OF A CIRCULAR CURVE TO THE LEFT HAVING A RADIUS OF 3819.72 FEET;

THENCE ALONG SAID CIRCULAR CURVE TO THE LEFT AN ARC DISTANCE OF 2144.19 FEET THROUGH A CENTRAL ANGLE OF  $32^{\circ}09'46''$  TO THE CURVE TO SPIRAL (C.S.) AT STATION 2627+08.27 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE LEFT A DISTANCE OF 300.00 FEET TO THE SPIRAL TO TANGENT (S.T.) AT STATION 2630+08.27, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#40

THENCE SOUTH  $73^{\circ}59'53''$  EAST ALONG A TANGENT LINE A DISTANCE OF 498.73 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE RIGHT AT STATION 2635+06.99 HAVING AN INTERNAL DELTA OF  $46^{\circ}37'00''$ , DEGREE OF CURVATURE (ARC)  $2^{\circ}00'$  AND AN OVERALL LENGTH OF 2730.83 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS SOUTH  $50^{\circ}41'23''$  EAST, A DISTANCE OF 2636.21 FEET;

THENCE ALONG A TRANSITION CURVE TO THE RIGHT A DISTANCE OF 400.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 2639+06.99 AND THE BEGINNING OF A CIRCULAR CURVE TO THE RIGHT HAVING A RADIUS OF 2864.79 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 1930.83 FEET THROUGH A CENTRAL ANGLE OF  $38^{\circ}37'00''$  TO THE CURVE TO SPIRAL (C.S.) AT STATION 2658+37.82 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE RIGHT A DISTANCE OF 400.00 FEET TO THE SPIRAL TO TANGENT (S.T) AT STATION 2662+37.82, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#41

THENCE SOUTH  $27^{\circ}22'53''$  EAST ALONG A TANGENT LINE A DISTANCE OF 2234.39 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE LEFT AT STATION 2684+72.22 HAVING AN INTERNAL DELTA OF  $72^{\circ}19'23''$ , DEGREE OF CURVATURE (ARC)  $1^{\circ}30'$  AND AN OVERALL LENGTH OF 5121.54 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS SOUTH  $63^{\circ}32'34''$  EAST, A DISTANCE OF 4751.11 FEET.

THENCE ALONG A TRANSITION CURVE TO THE LEFT A DISTANCE OF 300.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 2687+72.22 AND THE BEGINNING OF A CIRCULAR CURVE TO THE LEFT HAVING A RADIUS OF 3819.72 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 4521.54 FEET THROUGH A CENTRAL ANGLE OF  $67^{\circ}49'23''$  TO THE CURVE TO SPIRAL (C.S.) AT STATION 2732+93.76 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE LEFT A DISTANCE OF 300.00 FEET TO THE SPIRAL TO TANGENT (S.T) AT STATION 2735+93.76, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#42

THENCE NORTH  $80^{\circ}17'44''$  EAST ALONG A TANGENT LINE A DISTANCE OF 3881.90 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE RIGHT AT STATION 2774+75.66 HAVING AN INTERNAL DELTA OF  $86^{\circ}16'48''$ , DEGREE OF CURVATURE (ARC)  $2^{\circ}30'$  AND AN OVERALL LENGTH OF 3951.20 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS SOUTH  $56^{\circ}33'52''$  EAST, A DISTANCE OF 3505.14 FEET;

THENCE ALONG A TRANSITION CURVE TO THE RIGHT A DISTANCE OF 500.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 2779+75.65 AND THE BEGINNING OF A CIRCULAR CURVE TO THE RIGHT HAVING A RADIUS OF 2291.83 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 2951.20 FEET THROUGH A CENTRAL ANGLE OF  $73^{\circ}46'48''$  TO THE CURVE TO SPIRAL (C.S.) AT STATION 2809+26.86 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE RIGHT A DISTANCE OF 500.00 FEET TO THE SPIRAL TO TANGENT (S.T.) AT STATION 2814+26.86, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#43

THENCE SOUTH  $13^{\circ}25'28''$  EAST ALONG A TANGENT LINE A DISTANCE OF 2474.16 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE LEFT AT STATION 2839+01.02 HAVING AN INTERNAL DELTA OF  $93^{\circ}52'42''$ , DEGREE OF CURVATURE (ARC)  $2^{\circ}30'$  AND AN OVERALL LENGTH OF 4255.13 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS SOUTH  $60^{\circ}21'49''$  EAST, A DISTANCE OF 3696.85 FEET;

THENCE ALONG A TRANSITION CURVE TO THE LEFT A DISTANCE OF 500.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 2844+01.02 AND THE BEGINNING OF A CIRCULAR CURVE TO THE LEFT HAVING A RADIUS OF 2291.83 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 3255.13 FEET THROUGH A CENTRAL ANGLE OF  $81^{\circ}22'42''$  TO THE CURVE TO SPIRAL (C.S.) AT STATION 2876+56.15 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE LEFT A DISTANCE OF 500.00 FEET TO THE SPIRAL TO TANGENT (S.T.) AT STATION 2881+56.15, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#44

THENCE N 72°41'50" E ALONG A TANGENT LINE A DISTANCE OF 3174.04 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE LEFT AT STATION 2913+30.19 HAVING AN INTERNAL DELTA OF 7°47'20", DEGREE OF CURVATURE (ARC) 0°30' AND AN OVERALL LENGTH OF 1657.78 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS NORTH 68°48'10" EAST, A DISTANCE OF 1656.35 FEET;

THENCE ALONG A TRANSITION CURVE TO THE LEFT A DISTANCE OF 100.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 2914+30.19 AND THE BEGINNING OF A CIRCULAR CURVE TO THE LEFT HAVING A RADIUS OF 11459.16 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 1457.78 FEET THROUGH A CENTRAL ANGLE OF 07°17'20" TO THE CURVE TO SPIRAL (C.S.) AT STATION 2928+87.96 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE LEFT A DISTANCE OF 100.00 FEET TO THE SPIRAL TO TANGENT (S.T) AT STATION 2929+87.96, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#45

THENCE NORTH 64°54'30" EAST ALONG A TANGENT LINE A DISTANCE OF 24429.39 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE LEFT AT STATION 3174+17.35 HAVING AN INTERNAL DELTA OF 1°37'35", DEGREE OF CURVATURE (ARC) 0°30' AND AN OVERALL LENGTH OF 425.28 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS NORTH 64°05'43" EAST, A DISTANCE OF 425.26 FEET;

THENCE ALONG A TRANSITION CURVE TO THE LEFT A DISTANCE OF 100.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 3175+17.35 AND THE BEGINNING OF A CIRCULAR CURVE TO THE LEFT HAVING A RADIUS OF 11459.16 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 225.28 FEET THROUGH A CENTRAL ANGLE OF 01°07'35" TO THE CURVE TO SPIRAL (C.S.) AT STATION 3177+42.63 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE LEFT A DISTANCE OF 100.00 FEET TO THE SPIRAL TO TANGENT (S.T) AT STATION 3178+42.63, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#46

THENCE N 63°16'55" E ALONG A TANGENT LINE A DISTANCE OF 13023.31 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE RIGHT AT STATION 3308+65.94 HAVING AN INTERNAL DELTA OF 24°01'44", DEGREE OF CURVATURE (ARC) 2°00' AND AN OVERALL LENGTH OF 1601.44 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS NORTH 75°17'47" EAST, A DISTANCE OF 1584.80 FEET;

THENCE ALONG A TRANSITION CURVE TO THE RIGHT A DISTANCE OF 400.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 3312+65.94 AND THE BEGINNING OF A CIRCULAR CURVE TO THE RIGHT HAVING A RADIUS OF 2864.79 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 801.44 FEET THROUGH A CENTRAL ANGLE OF 16°01'44" TO THE CURVE TO SPIRAL (C.S.) AT STATION 3320+67.39 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE RIGHT A DISTANCE OF 400.00 FEET TO THE SPIRAL TO TANGENT (S.T) AT STATION 3324+67.39, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#47

THENCE N 87°18'39" E ALONG A TANGENT LINE A DISTANCE OF 802.76 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE LEFT AT STATION 3332+70.14 HAVING AN INTERNAL DELTA OF 25°35'00", DEGREE OF CURVATURE (ARC) 2°00' AND AN OVERALL LENGTH OF 1679.17 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS NORTH 74°31'09" EAST, A DISTANCE OF 1659.61 FEET;

THENCE ALONG A TRANSITION CURVE TO THE LEFT A DISTANCE OF 400.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 3336+70.14 AND THE BEGINNING OF A CIRCULAR CURVE TO THE LEFT HAVING A RADIUS OF 2864.79 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 879.17 FEET THROUGH A CENTRAL ANGLE OF 17°35'00" TO THE CURVE TO SPIRAL (C.S.) AT STATION 3345+49.31 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE LEFT A DISTANCE OF 400.00 FEET TO THE SPIRAL TO TANGENT (S.T) AT STATION 3349+49.31, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#48

THENCE NORTH  $61^{\circ}43'39''$  EAST ALONG A TANGENT LINE A DISTANCE OF 4295.84 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE RIGHT AT STATION 3392+45.15 HAVING AN INTERNAL DELTA OF  $2^{\circ}17'26''$ , DEGREE OF CURVATURE (ARC)  $0^{\circ}30'$  AND AN OVERALL LENGTH OF 558.11 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS NORTH  $62^{\circ}52'22''$  EAST, A DISTANCE OF 558.06 FEET;

THENCE ALONG A TRANSITION CURVE TO THE RIGHT A DISTANCE OF 100.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 3393+45.15 AND THE BEGINNING OF A CIRCULAR CURVE TO THE RIGHT HAVING A RADIUS OF 11459.16 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 358.11 FEET THROUGH A CENTRAL ANGLE OF  $1^{\circ}47'26''$  TO THE CURVE TO SPIRAL (C.S.) AT STATION 3397+03.26 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE RIGHT A DISTANCE OF 100.00 FEET TO THE SPIRAL TO TANGENT (S.T.) AT STATION 3398+03.26, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#49

THENCE NORTH  $64^{\circ}01'05''$  EAST ALONG A TANGENT LINE A DISTANCE OF 1975.83 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE LEFT AT STATION 3417+79.10 HAVING AN INTERNAL DELTA OF  $2^{\circ}17'26''$ , DEGREE OF CURVATURE (ARC)  $0^{\circ}30'$  AND AN OVERALL LENGTH OF 558.11 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS NORTH  $62^{\circ}52'22''$  EAST, A DISTANCE OF 558.06 FEET;

THENCE ALONG A TRANSITION CURVE TO THE LEFT A DISTANCE OF 100.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 3418+79.10 AND THE BEGINNING OF A CIRCULAR CURVE TO THE LEFT HAVING A RADIUS OF 11459.16 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 358.11 FEET THROUGH A CENTRAL ANGLE OF  $1^{\circ}47'26''$  TO THE CURVE TO SPIRAL (C.S.) AT STATION 3422+37.21 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE LEFT A DISTANCE OF 100.00 FEET TO THE SPIRAL TO TANGENT (S.T.) AT STATION 3423+37.21, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#50

THENCE NORTH  $61^{\circ}43'39''$  EAST ALONG A TANGENT LINE A DISTANCE OF 19660.35 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE LEFT AT STATION 3619+97.56 HAVING AN INTERNAL DELTA OF  $9^{\circ}59'08''$ , DEGREE OF CURVATURE (ARC)  $2^{\circ}00'$  AND AN OVERALL LENGTH OF 899.28 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS NORTH  $56^{\circ}44'05''$  EAST, A DISTANCE OF 897.47 FEET;

THENCE ALONG A TRANSITION CURVE TO THE LEFT A DISTANCE OF 400.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 3623+97.56 AND THE BEGINNING OF A CIRCULAR CURVE TO THE LEFT HAVING A RADIUS OF 2864.79 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 99.28 FEET THROUGH A CENTRAL ANGLE OF  $1^{\circ}59'08''$  TO THE CURVE TO SPIRAL (C.S.) AT STATION 3624+96.84 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE LEFT A DISTANCE OF 400.00 FEET TO THE SPIRAL TO TANGENT (S.T.) AT STATION 3628+96.84, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#51

THENCE NORTH  $51^{\circ}44'31''$  EAST ALONG A TANGENT LINE A DISTANCE OF 6974.12 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE LEFT AT STATION 3698+70.96 HAVING AN INTERNAL DELTA OF  $02^{\circ}16'30''$ , DEGREE OF CURVATURE (ARC)  $1^{\circ}00'$  AND AN OVERALL LENGTH OF 427.50 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS NORTH  $50^{\circ}36'16''$  EAST, A DISTANCE OF 427.46 FEET;

THENCE ALONG A TRANSITION CURVE TO THE LEFT A DISTANCE OF 200.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 3700+70.96 AND THE BEGINNING OF A CIRCULAR CURVE TO THE LEFT HAVING A RADIUS OF 5729.58 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 27.50 FEET THROUGH A CENTRAL ANGLE OF  $0^{\circ}16'30''$  TO THE CURVE TO SPIRAL (C.S.) AT STATION 3700+98.46 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE LEFT A DISTANCE OF 200.00 FEET TO THE SPIRAL TO TANGENT (S.T.) AT STATION 3702+98.46, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#52

THENCE NORTH 49°28'01" EAST ALONG A TANGENT LINE A DISTANCE OF 15268.28 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE RIGHT AT STATION 3855+66.74 HAVING AN INTERNAL DELTA OF 6°19'22", DEGREE OF CURVATURE (ARC) 1°00' AND AN OVERALL LENGTH OF 832.28 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS NORTH 52°37'42" EAST, A DISTANCE OF 831.68 FEET;

THENCE ALONG A TRANSITION CURVE TO THE RIGHT A DISTANCE OF 200.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 3857+66.74 AND THE BEGINNING OF A CIRCULAR CURVE TO THE RIGHT HAVING A RADIUS OF 5729.58 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 432.28 FEET THROUGH A CENTRAL ANGLE OF 4°19'22" TO THE CURVE TO SPIRAL (C.S.) AT STATION 3861+99.01 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE RIGHT A DISTANCE OF 200.00 FEET TO THE SPIRAL TO TANGENT (S.T.) AT STATION 3863+99.01, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#53

THENCE NORTH 55°47'23" EAST ALONG A TANGENT LINE A DISTANCE OF 7074.83 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE RIGHT AT STATION 3934+73.84 HAVING AN INTERNAL DELTA OF 0°32'00", DEGREE OF CURVATURE (ARC) 0°15' AND AN OVERALL LENGTH OF 263.33 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS NORTH 56°03'23" EAST, A DISTANCE OF 263.33 FEET;

THENCE ALONG A TRANSITION CURVE TO THE RIGHT A DISTANCE OF 50.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 3935+23.84 AND THE BEGINNING OF A CIRCULAR CURVE TO THE RIGHT HAVING A RADIUS OF 22918.31 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 163.33 FEET THROUGH A CENTRAL ANGLE OF 0°24'30" TO THE CURVE TO SPIRAL (C.S.) AT STATION 3936+87.18 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE RIGHT A DISTANCE OF 50.00 FEET TO THE SPIRAL TO TANGENT (S.T.) AT STATION 3937+37.18, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#54

THENCE NORTH  $56^{\circ}19'23''$  EAST ALONG A TANGENT LINE A DISTANCE OF 8751.20 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE RIGHT AT STATION 4024+88.38 HAVING AN INTERNAL DELTA OF  $4^{\circ}30'59''$ , DEGREE OF CURVATURE (ARC)  $1^{\circ}00'$  AND AN OVERALL LENGTH OF 651.64 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS NORTH  $58^{\circ}34'53''$  EAST, A DISTANCE OF 651.39 FEET;

THENCE ALONG A TRANSITION CURVE TO THE RIGHT A DISTANCE OF 200.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 4026+88.38 AND THE BEGINNING OF A CIRCULAR CURVE TO THE RIGHT HAVING A RADIUS OF 5729.58 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 251.64 FEET THROUGH A CENTRAL ANGLE OF  $2^{\circ}30'59''$  TO THE CURVE TO SPIRAL (C.S.) AT STATION 4029+40.02 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE RIGHT A DISTANCE OF 200.00 FEET TO THE SPIRAL TO TANGENT (S.T.) AT STATION 4031+40.02, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

SPIRAL#55

THENCE NORTH  $60^{\circ}50'22''$  EAST ALONG A TANGENT LINE A DISTANCE OF 4346.08 FEET TO THE TANGENT TO SPIRAL (T.S.) OF A TANGENT SPIRAL CURVE TO THE LEFT AT STATION 4074+86.09 HAVING AN INTERNAL DELTA OF  $45^{\circ}00'00''$ , DEGREE OF CURVATURE (ARC)  $3^{\circ}00'$  AND AN OVERALL LENGTH OF 2100.00 FEET, FROM WHICH THE SPIRAL TO TANGENT (S.T.) OF SAID TANGENT SPIRAL CURVE BEARS NORTH  $38^{\circ}20'22''$  EAST, A DISTANCE OF 2021.62 FEET;

THENCE ALONG A TRANSITION CURVE TO THE LEFT A DISTANCE OF 600.00 FEET TO THE SPIRAL TO CURVE (S.C.) AT STATION 4080+86.09 AND THE BEGINNING OF A CIRCULAR CURVE TO THE LEFT HAVING A RADIUS OF 1909.86 FEET;

THENCE ALONG SAID CIRCULAR CURVE AN ARC DISTANCE OF 900.00 FEET THROUGH A CENTRAL ANGLE OF  $27^{\circ}00'00''$  TO THE CURVE TO SPIRAL (C.S.) AT STATION 4089+86.09 AND THE BEGINNING OF A TRANSITION CURVE;

THENCE ALONG SAID TRANSITION CURVE TO THE LEFT A DISTANCE OF 600.00 FEET TO THE SPIRAL TO TANGENT (S.T.) AT STATION 4095+86.09, THE END OF THE TANGENT SPIRAL CURVE, AND A POINT OF TANGENCY;

THENCE NORTH 15°50'22" EAST ALONG A TANGENT LINE A DISTANCE OF 413.91 FEET TO STATION 4100+00.00 BEING THE **POINT OF TERMINUS** OF THE PORTION OF THIS RIGHT OF WAY BEING DESCRIBED BY THE ABOVE CENTERLINE DESCRIPTION, FROM WHICH THE NATIONAL GEODETIC SURVEY'S TRIANGULATION STATION DESIGNATED AS "COAL MINE" (PID GP0632) BEING A BRASS DISK SET IN CONCRETE MARKED "COAL MINE 1951",  
BEARS SOUTH 70°36'50" EAST A DISTANCE OF 10013.69 FEET.

THE WIDTHS AND AREAS OF THE PORTION OF THE RIGHT OF WAY DESCRIBED BY THE ABOVE CENTERLINE DESCRIPTION ARE DEFINED BY THE STATION AND WIDTH TABLES ON THE FOLLOWING PAGES.

**TOGETHER WITH THE FOLLOWING DESCRIBED PARCEL:**

**BEGINNING** AT STATION 41+00.00 OF THE ABOVE DESCRIBED CENTERLINE OF THE BLACK MESA AND LAKE POWELL RAILROAD;

THENCE NORTH 74°09'38" WEST A DISTANCE OF 100.00 FEET;

THENCE NORTH 15°50'22" EAST A DISTANCE OF 1531.95 FEET TO A POINT ON THE WESTERLY BOUNDARY OF THE RAIL LOADING SITE;

THENCE SOUTH 28°38'27" EAST ALONG THE WESTERLY BOUNDARY OF THE RAIL LOADING STATION A DISTANCE OF 1161.29 FEET TO THE SOUTHWESTERLY CORNER OF THE RAIL LOADING STATION;

THENCE SOUTH 56°56'35" WEST A DISTANCE OF 933.45 FEET;

THENCE NORTH 74°09'38" WEST A DISTANCE OF 100.00 FEET TO THE **POINT OF BEGINING**;

A GRID TO GROUND SCALE FACTOR OF 1.000244760 WAS USED TO DERIVE THE GROUND (SURFACE) ACREAGES FOR RIGHT OF WAY IN THIS AREA. GRID ACREAGES WERE MULTIPLIED BY THE GRID TO GROUND SCALE FACTOR SQUARED (1.000489580) TO PRODUCE GROUND (SURFACE) ACREAGES.

CONTAINING 15.92 ACRES OF RIGHT OF WAY ON THE ARIZONA STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (0202), NORTH AMERICAN DATUM OF 1983, EPOCH 2007 AND BEING 15.93 GROUND (SURFACE) ACRES. FOR THE ABOVE PARCEL ONLY.

RIGHT OF WAY WIDTHS AND AREAS  
FROM STATION 14+62.96 TO STATION 1014+00.00 TABLE

BEG-STATION	END-STATION	LEFT RAW WIDTH	RIGHT RAW WIDTH
14+62.96	26+75.00	55'	55'
27+00.00	47+75.00	90'	90'
47+75.00	60+00.00	55'	90'
60+00.00	79+50.00	55'	55'
79+50.00	90+50.00	105'	105'
90+50.00	105+00.00	65'	45
105+00.00	114+50.00	70'	70'
114+50.00	122+50.00	55'	55'
122+50.00	133+50.00	110'	110'
133+50.00	140+00.00	280'	280'
140+00.00	147+50.00	110'	110'
147+50.00	158+00.00	120'	135'
158+00.00	182+50.00	45'	55'
182+50.00	185+50.00	120'	120'
185+50.00	241+00.00	55'	65'
241+00.00	245+50.00	120'	120'
245+50.00	273+25.00	55'	65'
273+25.00	365+75.00	130'	100'
365+75.00	402+50.00	45'	55'
402+50.00	414+50.00	130'	140'
414+50.00	430+25.00	90'	110'
430+25.00	444+75.00	130'	140'
444+75.00	475+00.00	50'	75'
475+00.00	504+75.00	45'	55'
504+75.00	535+00.00	120'	120'
535+00.00	549+00.00	45'	55'
549+00.00	567+50.00	120'	120'
567+50.00	583+50.00	45'	55'
583+50.00	609+50.00	140'	150'
609+50.00	674+50.00	90'	95'
674+50.00	864+25.00	45'	55'
864+25.00	879+50.00	50'	60'
879+50.00	903+00.00	45'	55'
903+00.00	937+25.00	70'	75'
937+25.00	1014+00.00	45	55'

A GRID TO GROUND SCALE FACTOR OF 1.000309116 WAS USED TO DERIVE THE GROUND (SURFACE) ACREAGES FOR RIGHT OF WAY IN THIS AREA. GRID ACREAGES WERE MULTIPLIED BY THE GRID TO GROUND SCALE FACTOR SQUARED (1.000618327) TO PRODUCE GROUND (SURFACE) ACREAGES.

CONTAINING 349.23 ACRES OF RIGHT OF WAY ON THE ARIZONA STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (0202), NORTH AMERICAN DATUM OF 1983, EPOCH 2007 AND BEING 349.45 GROUND (SURFACE) ACRES. THIS TABLE ONLY STATION 14+62.96 TO STATION 1014+00.00

RIGHT OF WAY WIDTHS AND AREAS  
FROM STATION 1014+00.00 TO STATION 2058+00.00 TABLE

BEG-STATION	END-STATION	LEFT RW WIDTH	RIGHT RW WIDTH
1014+00.00	1215+50.00	45'	55'
1215+50.00	1227+00.00	70'	120'
1227+00.00	1247+25.00	45'	55'
1247+25.00	1273+25.00	60'	65'
1273+25.00	1279+25.00	65'	75'
1279+25.00	1397+75.00	60'	65'
1397+75.00	1406+50.00	45'	55'
1406+50.00	1415+00.00	75'	80'
1415+00.00	1429+75.00	45'	55'
1429+75.00	1436+25.00	60'	65'
1436+25.00	1473+00.00	45'	55'
1473+00.00	1530+00.00	55'	60'
1530+00.00	1544+00.00	75'	80'
1544+00.00	1586+50.00	45'	55'
1586+50.00	1606+75.00	75'	80'
1606+75.00	1617+50.00	45'	55'
1617+50.00	1628+75.00	75'	85'
1628+75.00	1645+00.00	85'	95'
1645+00.00	1820+00.00	45'	55'
1820+00.00	1841+25.00	85'	85'
1841+25.00	1849+00.00	45'	55'
1849+00.00	1863+50.00	65'	75'
1863+50.00	1915+50.00	70'	120'
1915+50.00	1937+00.00	45'	55'
1937+00.00	1950+25.00	55'	60'
1950+25.00	1954+50.00	45'	55'
1954+50.00	1975+50.00	60'	70'
1975+50.00	1986+25.00	45'	55'
1986+25.00	2000+75.00	90'	100'
2000+75.00	2017+50.00	45'	55'
2017+50.00	2039+75.00	75'	80'
2039+75.00	2058+00.00	45'	55'

A GRID TO GROUND SCALE FACTOR OF 1.000328568 WAS USED TO DERIVE THE GROUND (SURFACE) ACREAGES FOR RIGHT OF WAY IN THIS AREA. GRID ACREAGES WERE MULTIPLIED BY THE GRID TO GROUND SCALE FACTOR SQUARED (1.000657244) TO PRODUCE GROUND (SURFACE) ACREAGES.

CONTAINING 286.45 ACRES OF RIGHT OF WAY ON THE ARIZONA STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (0202), NORTH AMERICAN DATUM OF 1983, EPOCH 2007 AND BEING 286.64 GROUND (SURFACE) ACRES. THIS TABLE ONLY STATION 1014+00.00 TO STATION 2058+00.00

RIGHT OF WAY WIDTHS AND AREAS  
FROM STATION 2058+00 TO STATION 3014+00.00 TABLE

BEG-STATION	END-STATION	LEFT R/W WIDTH	RIGHT R/W WIDTH
2058+00.00	2144+50.00	45'	55'
2144+50.00	2165+50.00	70'	120'
2165+50.00	2183+00.00	65'	70'
2183+00.00	2197+50.00	45'	55'
2197+50.00	2225+25.00	60'	120'
2225+25.00	2244+00.00	120'	120'
2244+00.00	2255+50.00	70'	160'
2255+50.00	2260+50.00	120'	90'
2260+50.00	2311+25.00	45'	55'
2311+25.00	2317+25.00	55'	65'
2317+25.00	2340+25.00	80'	90'
2340+25.00	2346+21.17	55'	65'
2346+21.17	2362+25.00	45'	55'
2362+25.00	2364+50.00	55'	60'
2364+50.00	2378+00.00	45'	55'
2378+00.00	2383+00.00	60'	70'
2383+00.00	2388+00.00	45'	55'
2388+00.00	2401+50.00	65'	75'
2401+50.00	2409+50.00	45'	55'
2409+50.00	2416+75.00	60'	70'
2416+75.00	2424+50.00	45'	55'
2424+50.00	2433+50.00	50'	60'
2433+50.00	2435+50.00	45'	55'
2435+50.00	2439+50.00	70'	75'
2439+50.00	2451+75.00	45'	55'
2451+75.00	2455+00.00	70'	75'
2455+00.00	2552+75.00	45'	55'
2552+75.00	2557+00.00	70'	75'
2557+00.00	2593+25.00	45'	55'
2593+25.00	2618+25.00	50'	55'
2618+25.00	2642+25.00	45'	55'
2642+25.00	2712+50.00	55'	60'
2712+50.00	2844+01.02	45'	50'
2844+01.02	2856+75.00	45'	130'
2856+75.00	2913+30.19	120'	130'
2913+30.19	2925+00.00	120'	TAPER 130' to 100' *
2925+00.00	3014+00.00	120'	100'

TAPER DEFINED AS WIDTH CHANGE PER LINEAR FOOT OF STATION.  
DEFINED BY FOLLOWING FORMULA:  
DELTA R/W WIDTH / DELTA STATION = DELTA R/W WIDTH PER FT

\* -30 / 1169.81 = -0.025645 CHANGE OF R/W WIDTH PER FT

A GRID TO GROUND SCALE FACTOR OF 1.000293426 WAS USED TO DERIVE THE GROUND (SURFACE) ACREAGES FOR RIGHT OF WAY IN THIS AREA. GRID ACREAGES WERE MULTIPLIED BY THE GRID TO GROUND SCALE FACTOR SQUARED (1.000586938) TO PRODUCE GROUND (SURFACE) ACREAGES.

CONTAINING 301.20 ACRES OF RIGHT OF WAY ON THE ARIZONA STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (0202), NORTH AMERICAN DATUM OF 1983, EPOCH 2007 AND BEING 301.37 GROUND (SURFACE) ACRES. THIS TABLE ONLY STATION 2058+00.00 TO STATION 3014+00.00

**RIGHT OF WAY WIDTHS AND AREAS  
FROM STATION 3014+00 TO STATION 4100+00.00 TABLE**

BEG-STATION	END-STATION	LEFT RW WIDTH	RIGHT RW WIDTH
3014+00.00	3308+65.94	120'	100'
3308+65.94	3324+67.39	120'	TAPER 100'-200' *
3324+67.39	3392+45.15	120'	200'
3392+45.15	3417+79.10	120'	TAPER 200'-100' **
3417+79.10	4074+00.00	120'	100'
4074+00.00	4100+00.00	100'	100'

TAPER DEFINED AS WIDTH CHANGE PER LINEAR FOOT OF STATION.  
DEFINED BY FOLLOWING FORMULA:

$$\text{DELTA RW WIDTH} / \text{DELTA STATION} = \text{DELTA RW WIDTH PER FOOT OF STATIONING}$$

\*  $100 / 1601.45 = 0.062443$  CHANGE OF RW WIDTH PER FOOT OF STATIONING.

\*\*  $-100 / 2533.95 = -0.039464$  CHANGE OF RW WIDTH PER FOOT OF STATIONING.

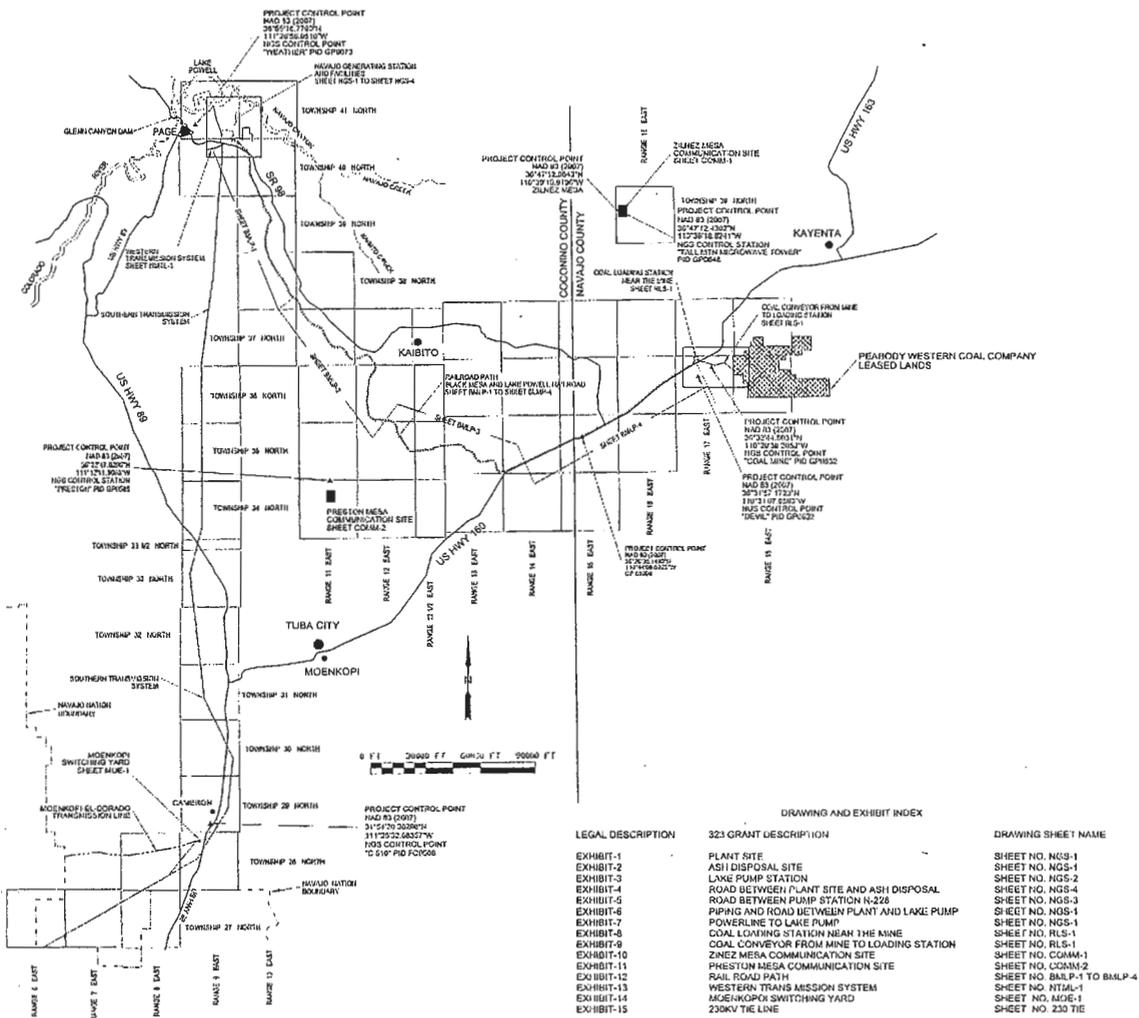
A GRID TO GROUND SCALE FACTOR OF 1.000244760 WAS USED TO DERIVE THE GROUND (SURFACE) ACREAGES FOR RIGHT OF WAY IN THIS AREA. GRID ACREAGES WERE MULTIPLIED BY THE GRID TO GROUND SCALE FACTOR SQUARED (1.000489580) TO PRODUCE GROUND (SURFACE) ACREAGES.

CONTAINING 567.67 ACRES OF RIGHT OF WAY ON THE ARIZONA STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (0202), NORTH AMERICAN DATUM OF 1983, EPOCH 2007 AND BEING 567.95 GROUND (SURFACE) ACRES. THIS TABLE ONLY STATION 3014+00.00 TO STATION 4100+00.00



**EXPIRES 3/31/2013**

# NAVAJO GENERATING STATION AND APPURTENANT FACILITIES



LEGAL DESCRIPTION	323 GRANT DESCRIPTION	DRAWING SHEET NAME
EXHIBIT-1	PLANT SITE	SHEET NO. NGS-1
EXHIBIT-2	ASH DISPOSAL SITE	SHEET NO. NGS-1
EXHIBIT-3	LAKE PUMP STATION	SHEET NO. NGS-2
EXHIBIT-4	ROAD BETWEEN PLANT SITE AND ASH DISPOSAL	SHEET NO. NGS-4
EXHIBIT-5	ROAD BETWEEN PUMP STATION N-226	SHEET NO. NGS-3
EXHIBIT-6	PIPING AND ROAD BETWEEN PLANT AND LAKE PUMP	SHEET NO. NGS-1
EXHIBIT-7	POWERLINE TO LAKE PUMP	SHEET NO. NGS-1
EXHIBIT-8	COAL LOADING STATION NEAR THE MINE	SHEET NO. RLS-1
EXHIBIT-9	COAL CONVEYOR FROM MINE TO LOADING STATION	SHEET NO. RLS-1
EXHIBIT-10	ZINEZ MESA COMMUNICATION SITE	SHEET NO. COMM-1
EXHIBIT-11	PRESTON MESA COMMUNICATION SITE	SHEET NO. COMM-2
EXHIBIT-12	RAIL ROAD PATH	SHEET NO. BALP-1 TO BALP-4
EXHIBIT-13	WESTERN TRANS MISSION SYSTEM	SHEET NO. NTML-1
EXHIBIT-14	MOENKOPI'S SWITCHING YARD	SHEET NO. MOE-1
EXHIBIT-15	230KV THE LINE	SHEET NO. 230 TIE

## ENGINEER'S AFFIDAVIT

STATE OF ARIZONA )  
COUNTY OF MARICOPA ) SS.

STAN DICKEY, BEING DULY SWORN, STATES THAT HE IS A REGISTERED LAND SURVEYOR THAT HE MADE THE SURVEY OF A PROPOSED RIGHT-OF-WAY AS DESCRIBED AND SHOWN ON THIS MAP, TO BE GUARANTEED TO HEREIN AFTER DESIGNATED THE "APPLICANT", THAT SURVEY OF SAID RIGHT-OF-WAY WAS MADE UNDER HIS SUPERVISION AND UNDER APPLICANTS AUTHORITY, COMMENCING JUNE 20 11 AND ENDED OCTOBER, 2011, THAT SAID SURVEY IS ACCURATELY REPRESENTED ON THIS MAP.

## ARIZONA SURVEYORS CERTIFICATE

I, STAN DICKEY ARIZONA REGISTERED SURVEYOR NO. 22224 DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY OF THE GROUND AND FIELD NOTES UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION DURING THE MONTHS OF JUNE 20 11 TO OCTOBER 20 11 AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



STAN DICKEY IN 303224  
EXPIRES 2016

SUBSCRIBED AND SWORN BEFORE ME THIS \_\_\_\_ DAY OF \_\_\_\_ 20\_\_

NOTARY PUBLIC

## APPLICANTS AFFIDAVIT

STATE OF ARIZONA )  
COUNTY OF MARICOPA ) SS.

I, \_\_\_\_\_, HEREBY CERTIFY THAT I AM THE PRESIDENT OF "APPLICANT", THAT STAN DICKEY AS HEREIN AFORESAID CALLED THE APPLICANT AND HE EMPLOYED AS THE ENGINEERS BY THE APPLICANT, THAT THE SURVEY OF THE RIGHT-OF-WAY IS ACCURATELY REPRESENTED ON THE ACCOMPANYING MAP AND WAS ADOPTED BY THE APPLICANT ON THE DAY OF \_\_\_\_\_ AS THE DEFINITE LOCATION OF THE LINE AND THAT THE MAP HAS BEEN PREPARED TO BE FILED FOR THE APPROVAL OF THE BUREAU OF INDIAN AFFAIRS.

SUBSCRIBED AND SWORN BEFORE ME THIS \_\_\_\_ DAY OF \_\_\_\_ 20\_\_

NOTARY PUBLIC

**COVERSHEET**  
 NAVAJO GENERATING STATION AND APPURTENANT FACILITIES  
 SCALE: 1"=2000 FT  
 SHEET NO. NGS-1  
 PROJECT NO. 2010-001  
 DATE: 10/20/11  
 DRAWN BY: [Name]  
 CHECKED BY: [Name]  
 APPROVED BY: [Name]  
 TITLE: [Name]  
 ORGANIZATION: [Name]



# NAVAJO GENERATING STATION LAKE PUMP STATION

## A PORTION OF UNSURVEYED SECTION 15, T41N, R9E, GILA AND SALT RIVER MERIDIAN, COCONINO COUNTY, ARIZONA

### APPLICANTS AFFIDAVIT

STATE OF ARIZONA )  
COUNTY OF MARICOPA ) SS.  
I, \_\_\_\_\_, ENGINEER, HEREBY CERTIFY THAT I AM THE PROPRIETOR OF  
THE ENGINEERING FIRM CALLED THE "APPLICANT" THAT HAS  
DESIGNED AND OBTAINED THE NECESSARY PERMITS AND APPROVALS AS THE  
ENGINEER OF THE PROJECT AND THAT THE SURVEY OF THE RIGHT OF WAY IS  
ACCORDING TO THE ACCOMPANYING MAP AND NOTES AND THAT I AM THE  
APPLICANT ON THE DAY OF \_\_\_\_\_ AS THE DEFINITE  
LOCATION OF THE LAKE AND THAT THE MAP HAS BEEN PREPARED TO BE FILED  
FOR THE APPROVAL OF THE BUREAU OF LAND AFFAIRS.

SUBSCRIBED AND SWORN TO before me this \_\_\_\_\_ day of \_\_\_\_\_  
20\_\_\_\_.

NOTARY PUBLIC

### ENGINEER'S AFFIDAVIT

STATE OF ARIZONA )  
COUNTY OF MARICOPA ) SS.  
I, STAN DICKET, BEING FULLY SWORN, STATE THAT HE IS A REGISTERED LAND  
SURVEYOR THAT HE MADE THE SURVEY OF A PROPOSED RIGHT-OF-WAY AS  
DETAILED AND SHOWN ON THIS MAP, TO BE GRANTED TO  
HEREAFTER DESIGNATED THE "APPLICANT" THAT SURVEY OF SUCH  
RIGHT-OF-WAY HAS BEEN CONDUCTED UNDER HIS SUPERVISION AND UNDER APPLICANTS  
AUTHORITY, COMMENCING APRIL 2011 AND ENDING OCTOBER, 2011; THAT SUCH  
SURVEY IS ACCURATELY REPRESENTED ON THIS MAP.

### ARIZONA SURVEYORS CERTIFICATE

I, STAN DICKET, ARIZONA REGISTERED SURVEYOR NO. 2328, DO HEREBY CERTIFY  
THAT THIS SURVEY PLAN AND THE ACTUAL SURVEY ON THE GROUND AND FIELD  
NOTES AND NOTES HEREON WERE PERFORMED BY ME OR UNDER MY DIRECT  
SUPERVISION DURING THE MONTHS OF APRIL 2011 TO OCTOBER 2011 AND I WRITE  
THIS AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



STAN DICKET REGISTERED  
SURVEYOR 2328

SUBSCRIBED AND SWORN before me this \_\_\_\_\_ day of \_\_\_\_\_  
20\_\_\_\_.

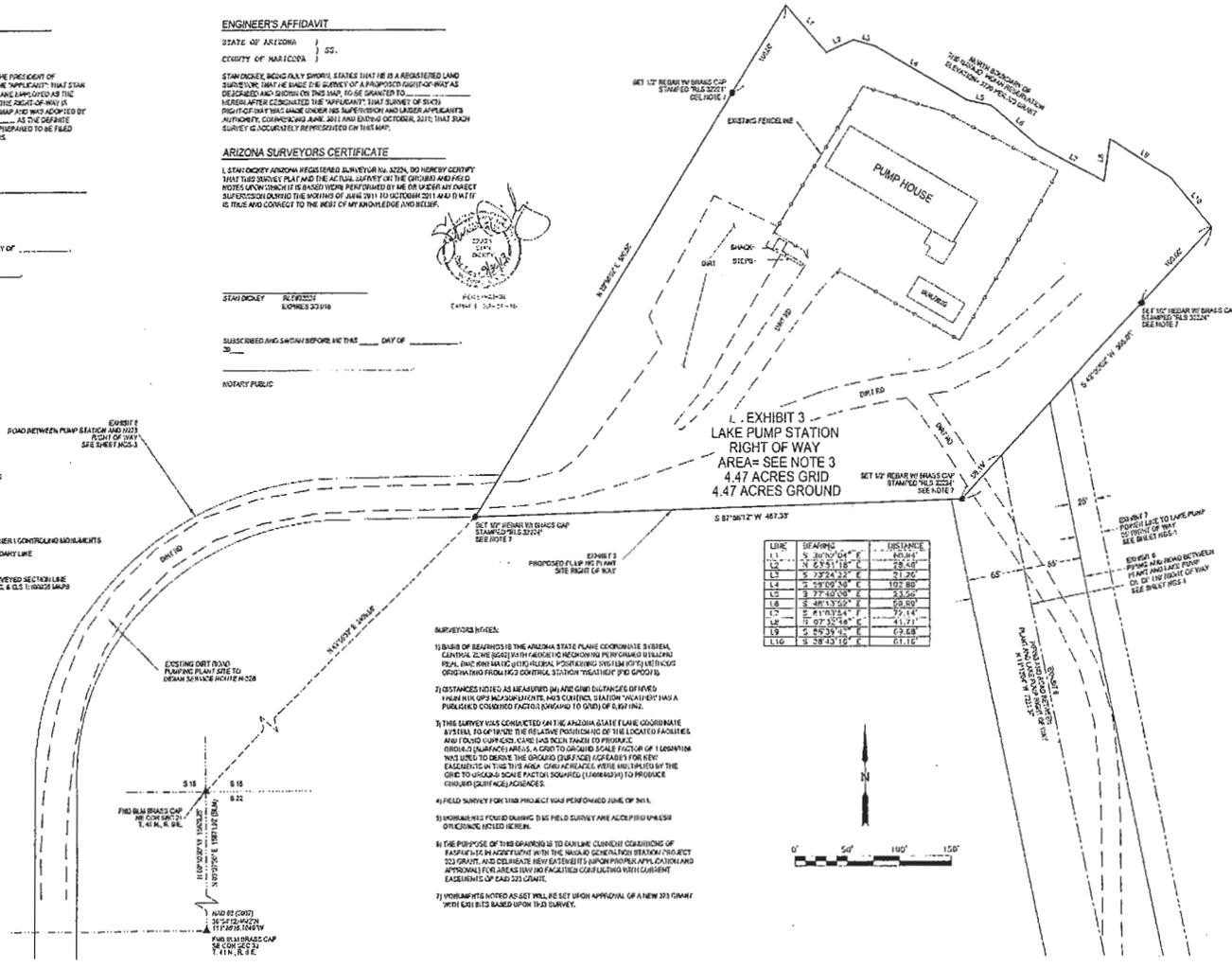
NOTARY PUBLIC

### SYMBOL / LINE LEGEND

- ▲ PND BLM BRASS CAP AS NOTED
- ⊙ PND BRASS CAP AS NOTED
- ⊙ SET WASTE CAP AS NOTED
- FENCE MARK W/ LINE
- FENCE CHAIN LINK
- - - - - THE TO SECTION CORNER / CONTROL MONUMENTS
- - - - - POINT OF DRY BOUNDARY LINE
- - - - - SECTION LINE
- - - - - BOUNDARY LINE UNRESURVEYED SECTION LINE  
DERIVED FROM U.S.C. & G.S. 1:100,000 MAPS

### ABBREVIATIONS LEGEND (TYPICAL)

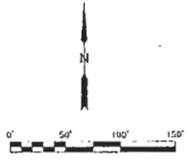
- SEC SECTION
- T. & R. TOWNSHIP & RANGE
- G. & S. M. GILA & SALT RIVER MERIDIAN
- CA. CENTERLINE
- R/W. RIGHT OF WAY
- UN. UNMARKED DATA
- R/D. RECORD DATA
- C.D. CALCULATED DATA
- B.L. BUREAU OF LAND MANAGEMENT
- F.D. FOUND
- L.S. LAND SURVEYOR
- R.S. REGISTERED LAND SURVEYOR



L - EXHIBIT 3  
LAKE PUMP STATION  
RIGHT OF WAY  
AREA= SEE NOTE 3  
4.47 ACRES GRID  
4.47 ACRES GROUND

LINE	BEARING	DISTANCE
L1	S 24°20'04" E	80.84
L2	N 23°51'18" E	78.48
L3	S 72°24'22" E	21.26
L4	S 28°00'30" E	102.80
L5	S 77°40'08" E	23.59
L6	S 40°13'52" E	69.59
L7	S 41°13'54" E	27.14
L8	S 62°56'46" E	41.14
L9	S 29°30'42" E	69.88
L10	S 38°43'16" E	61.16

- ### SURVEYOR'S NOTES:
- 1) BASIS OF BEARINGS IS THE ARIZONA STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE BASED ON THE ARIZONA STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, 1983 EDITION, USING THE NAD 83 DATUM. THE STATE PLANE COORDINATE SYSTEM IS USED TO CALCULATE THE DISTANCES AND BEARINGS OF THE RIGHT OF WAY.
  - 2) DISTANCES LISTED AS BEARINGS IN THE GRID DISTANCES OF THIS PLAN ARE UNADJUSTED. THE CORRECTIONS TO THE DISTANCES LISTED AS BEARINGS IN THE GRID DISTANCES OF THIS PLAN ARE UNADJUSTED. THE CORRECTIONS TO THE DISTANCES LISTED AS BEARINGS IN THE GRID DISTANCES OF THIS PLAN ARE UNADJUSTED.
  - 3) THE SURVEY WAS CONDUCTED ON THE ARIZONA STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, 1983 EDITION, USING THE NAD 83 DATUM. THE STATE PLANE COORDINATE SYSTEM IS USED TO CALCULATE THE DISTANCES AND BEARINGS OF THE RIGHT OF WAY.
  - 4) FIELD SURVEY FOR THIS PROJECT WAS PERFORMED FROM 4/1/11 TO 10/31/11.
  - 5) MONUMENTS FOUND DURING THIS FIELD SURVEY ARE DESCRIBED UNLESS OTHERWISE NOTED HEREIN.
  - 6) THE PURPOSE OF THIS SURVEY IS TO OBTAIN CURRENT COORDINATES OF THE POINTS IDENTIFIED IN THE NAVAJO GENERATING STATION PROJECT 203 GRANT, AND CALCULATE NEW EXTENSIONS UPON PROPER APPROPRIATION APPROVAL FOR AREAS THAT ARE FACILITIES CONTACTING WITH CURRENT BOUNDARIES OF SAID 203 GRANT.
  - 7) MONUMENTS NOTED AS SET WHILE SET UPON APPROVAL OF A NEW 203 GRANT WITH 6001 SETS BASED UPON THIS SURVEY.



**NGS-2**

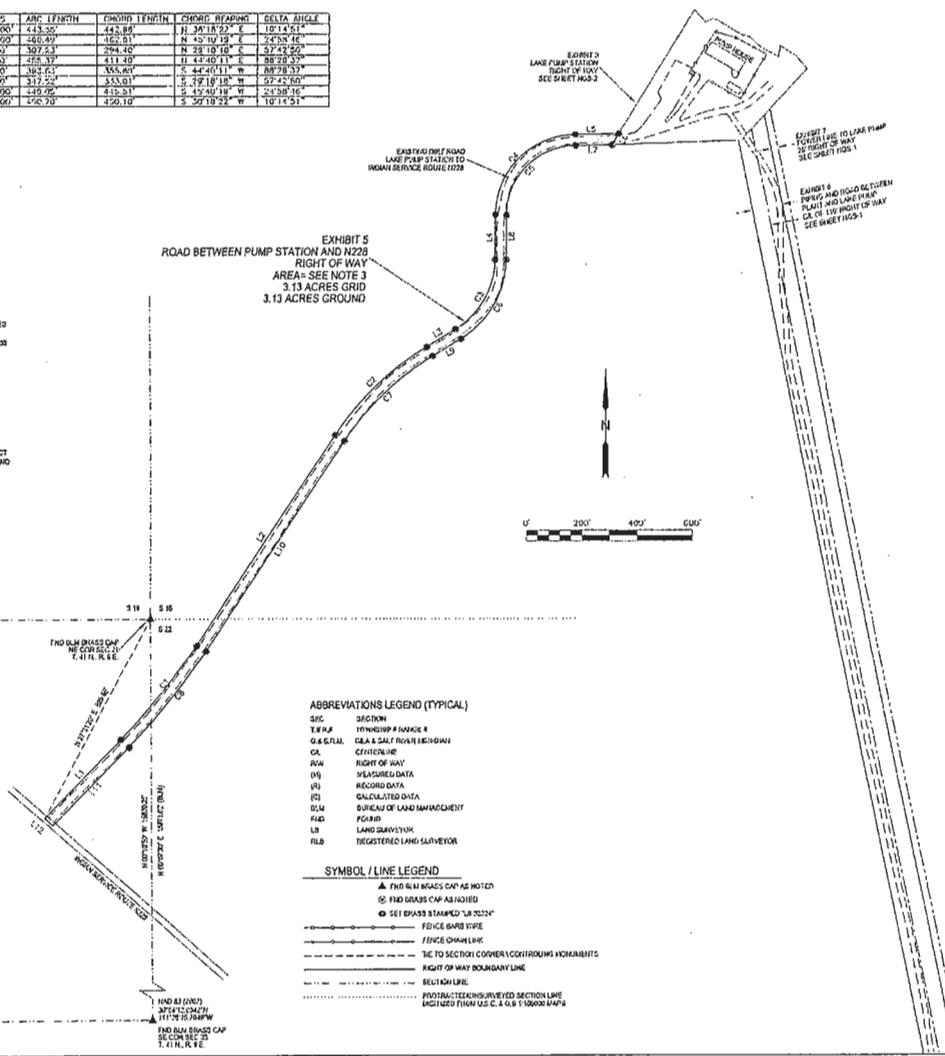
NAVAJO GENERATING STATION  
LAKE PUMP STATION

APPROVED: \_\_\_\_\_ DATE: 11/17/11 DRAWING NO.: 203-001  
 DESIGNED: \_\_\_\_\_ DRAWING NO.: 203-001  
 CHECKED: \_\_\_\_\_ DATE: 11/17/11  
 SURVEYOR: STAN DICKET, REGISTERED SURVEYOR NO. 2328

# NAVAJO GENERATING STATION ROAD BETWEEN PUMP STATION AND N228 A PORTION OF UNSURVEYED SECTION 15, 21 & 22, T41N, R9E, GILA AND SALT RIVER MERIDIAN, COCONINO COUNTY, ARIZONA

LINE	BLASING	UNADJUSTED	CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
L1	N 47°30'17" E	450.62	C1	2480.00'	413.25'	442.84'	N 35°18'22" E	10°14'21"
L2	N 33°10'50" E	913.33'	C2	1833.00'	460.89'	462.51'	N 42°10'59" E	7°50'04"
L3	N 58°02'42" E	121.66'	C3	306.00'	307.23'	294.40'	N 28°10'10" E	37°42'20"
L4	N 04°28'53" E	163.22'	C4	286.00'	455.37'	411.40'	N 44°40'11" E	80°28'23"
L5	N 88°54'29" E	134.74'	C5	253.00'	363.03'	355.40'	S 44°00'11" W	89°28'33"
L6	S 32°50'00" W	47.10'	C6	345.00'	317.22'	333.01'	S 28°18'18" W	57°42'50"
L7	S 65°34'00" W	133.23'	C7	1630.00'	440.00'	430.21'	S 43°40'18" W	24°38'16"
L8	S 60°28'53" W	129.22'	C8	2320.00'	420.20'	420.10'	S 29°10'22" W	10°14'21"
L9	S 56°19'42" W	121.80'						
L10	S 51°19'42" W	111.22'						
L11	S 45°22'42" W	100.00'						
L12	N 46°34'13" W	40.60'						

- SURVEYOR'S NOTES:**
- 1) NAME OF MERIDIAN IS THE ARIZONA STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (B23) WITH GEODETIC REGION AND PERFORMED UTILIZING REAL TIME KINEMATIC (RTK) GLOBAL POSITIONING SYSTEM (GPS) FOR TRACK CORRECTIONS FROM INSC CONTROL STATION (VEGETATION FREE CORNER)
  - 2) DISTANCES MEASURED AS MEASUREMENTS (ON WIRE AND DISTANCES) OBTAINED FROM RTK GPS MEASUREMENTS. THIS CONTROL STATION "WEATHER" HAS A PUBLICLY AVAILABLE FACTOR (APPROX 0.992) OF SURVEYING
  - 3) THIS SURVEY WAS CONDUCTED ON THE ARIZONA STATE PLANE COORDINATE SYSTEM. TO OBTAIN THE RELATIVE POSITIONS OF THE LOCATED FACILITIES AND POINTS HEREON, CARE HAS BEEN TAKEN TO PRODUCE GROUND SURFACE AREAS AS TO GROUND SCALE FACTOR OF 1:40,000. THIS WAS USED TO ADJUST THE GROUND SURFACE AREAS FOR NEW ESTABLISHMENTS IN THIS AREA. TWO ADJUSTMENTS WERE MADE BY THIS GRID TO GROUND SCALE FACTOR (0.9999994) TO PRODUCE GROUND (SURFACE) AREAS
  - 4) FIELD SURVEY FOR THIS PROJECT WAS PERFORMED JUNE OF 2011.
  - 5) MEASUREMENTS FOUND ON THIS FIELD SURVEY ARE ACCEPTED UNLESS OTHERWISE NOTED HEREIN.
  - 6) THE PURPOSE OF THIS DRAWING IS TO OBTAIN CURRENT CORNER LOCATIONS OF EXISTING BOUNDARIES WITH THE BOUNDARY CORNER IN THIS PROJECT 333 GRANT, AND DELINEATE NEW BOUNDARIES UPON PROPER APPLICATION AND APPROVAL FOR AREAS AND ACRES COLLECTED WITH CURRENT STATEMENTS OF SAID 333 GRANT.



- ABBREVIATIONS LEGEND (TYPICAL)**
- SEC SECTION
  - T&P P THROUGH P P INCHES &
  - Q&S GILA & SALT RIVER MERIDIAN
  - CL CENTERLINE
  - R/W RIGHT OF WAY
  - (R) RECORDED DATA
  - (U) UNRECORDED DATA
  - (C) CALCULATED DATA
  - BLM BUREAU OF LAND MANAGEMENT
  - F&D F&D-B
  - LS LAND SURVEYOR
  - RLB REGISTERED LAND SURVEYOR
- SYMBOL / LINE LEGEND**
- ▲ TWO BURNING CAPS AS NOTED
  - FIND GRASS CAP AS NOTED
  - ⊙ SET GRASS STAMPS "R 2024"
  - FENCE BARS TYPE
  - FENCE CHAINLINK
  - - - TIC TO SECTION CORNER VERTICAL INCHMENTS
  - RIGHT OF WAY BOUNDARY LINE
  - RIGHT OF WAY
  - PROTRACTED/UNRECORDED SECTION LINE (ENLARGED FROM U.S.G. & G.S. 1:100,000 MAPS)

**ENGINEER'S AFFIDAVIT**

STATE OF ARIZONA )  
COUNTY OF MARICOPA ) SS.

STAN DEWEY, being duly sworn, states that he is a registered land surveyor, and he has made this survey for a proposed right-of-way easement and shown on this map, to be qualified to perform after receiving the appropriate state surveyor's license. RIGHT OF WAY HAS BEEN MADE UNDER HIS SUPERVISION AND UNDER APPLICANT'S AUTHORITY, COMMENCING JUNE, 2011 AND ENDING OCTOBER, 2011, THAT SUCH SURVEY IS ACCURATELY REPRESENTED ON THIS MAP.

**ARIZONA SURVEYORS CERTIFICATE**

I, STAN DEWEY, AN ARIZONA REGISTERED SURVEYOR NO. 33224, DO HEREBY CERTIFY THAT THIS SURVEY PLAN AND THE ACTUAL SURVEY ON THE GROUND AND FIELD NOTES AND INSTRUMENTS BEING FILED HEREON, WERE DRAWN BY ME OR UNDER MY DIRECT SUPERVISION DURING THE MONTHS OF JUNE 2011 TO OCTOBER 2011 AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



STAN DEWEY      ARIZONA  
EXPIRES 2016

SUBSCRIBED AND SWORN BEFORE ME THIS \_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_.

NOTARY PUBLIC

**APPLICANT'S AFFIDAVIT**

STATE OF ARIZONA )  
COUNTY OF MARICOPA ) SS.

I, \_\_\_\_\_, HEREBY CERTIFY THAT I AM THE PROPRIETOR OF \_\_\_\_\_, WHICH I HAVE CALLED THE "NOTARY" THAT STAN DEWEY SUBSCRIBED THE FOREGOING AFFIDAVIT WHO IS EMPLOYED AS THE ENGINEER BY THE APPLICANT, THAT THE SURVEY OF THE RIGHT OF WAY IS ACCURATELY REPRESENTED ON THE ACCOMPANYING MAP AND IS ACCEPTED BY THE APPLICANT ON THE DAY OF \_\_\_\_\_ AS IS SET FORTH IN LOCATION OF THE LINE AND THAT THE MAP HAS BEEN PREPARED TO BE FILED FOR THE APPROVAL OF THE BUREAU OF LAND MANAGEMENT.

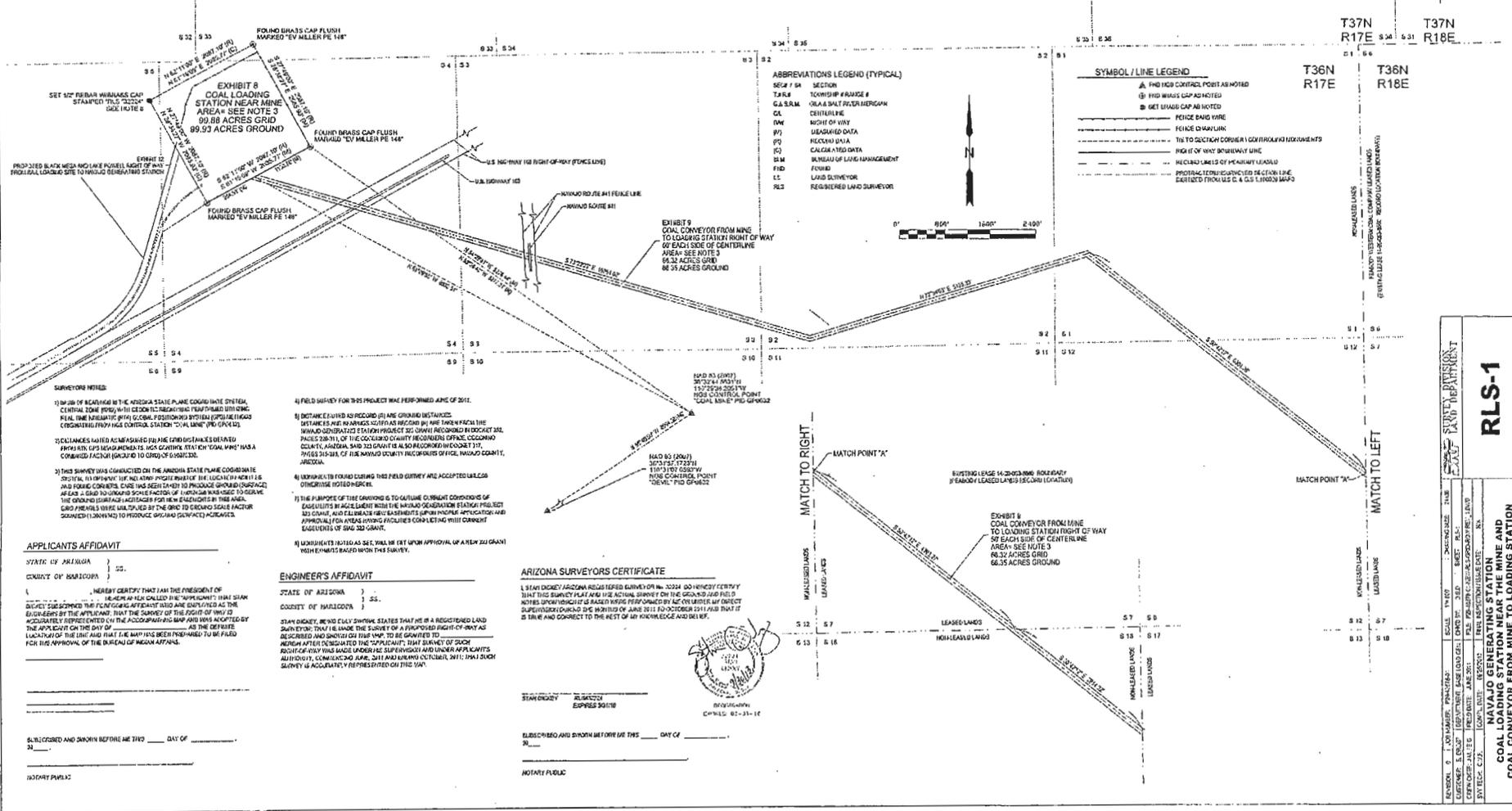
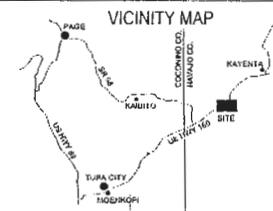
SUBSCRIBED AND SWORN BEFORE ME THIS \_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_.

NOTARY PUBLIC

DIVISION OF LAND SURVEYING  
**NGS-3**  
 NAVAJO GENERATING STATION  
 ROAD BETWEEN PUMP STATION AND N228

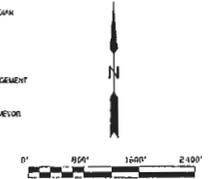


# NAVAJO GENERATING STATION COAL LOADING STATION NEAR THE MINE AND COAL CONVEYOR FROM MINE TO LOADING STATION A PORTION OF UNSURVEYED SECTION 33, T37N, R17E, UNSURVEYED SECTIONS 1, 2, 3, 4, 5 & 12, T36N, R17E, UNSURVEYED SECTIONS 17 & 18, T36N, R18E, GILA AND SALT RIVER MERIDIAN, NAVAJO COUNTY, ARIZONA



- ABBREVIATIONS LEGEND (TYPICAL)**
- SEC 34 SECTION
  - T36N TOWNSHIP # 36 NORTH
  - G.A.S.R.M. GILA AND SALT RIVER MERIDIAN
    - CL CENTERLINE
    - DMW RIGHT OF WAY
    - DEAD END DATA
    - PLD RECORD DATA
    - CS CALCULATED DATA
    - ISM BUREAU OF LAND MANAGEMENT
    - FID FOUND
    - LS LAND SURVEYOR
    - RLS REGISTERED LAND SURVEYOR

- SYMBOL / LINE LEGEND**
- ▲ FID HIGH CONTROL POINT AS NOTED
  - Ⓢ FID BRASS CAP AS NOTED
  - Ⓢ MET BRASS CAP AS NOTED
  - FENCE BAND WIRE
  - FENCE CHAIN LINK
  - TITLE TO SECTION CORNER CONTROLLING ADJACENTS
  - RIGHT OF WAY SURVEY LINE
  - UNLEASED LANDS OF PRESENT LEASOR
  - PROTRACTED UNRECORDED SECTION LINE PARTIALLY FROM U.S. & G.S. RECORD MAPS



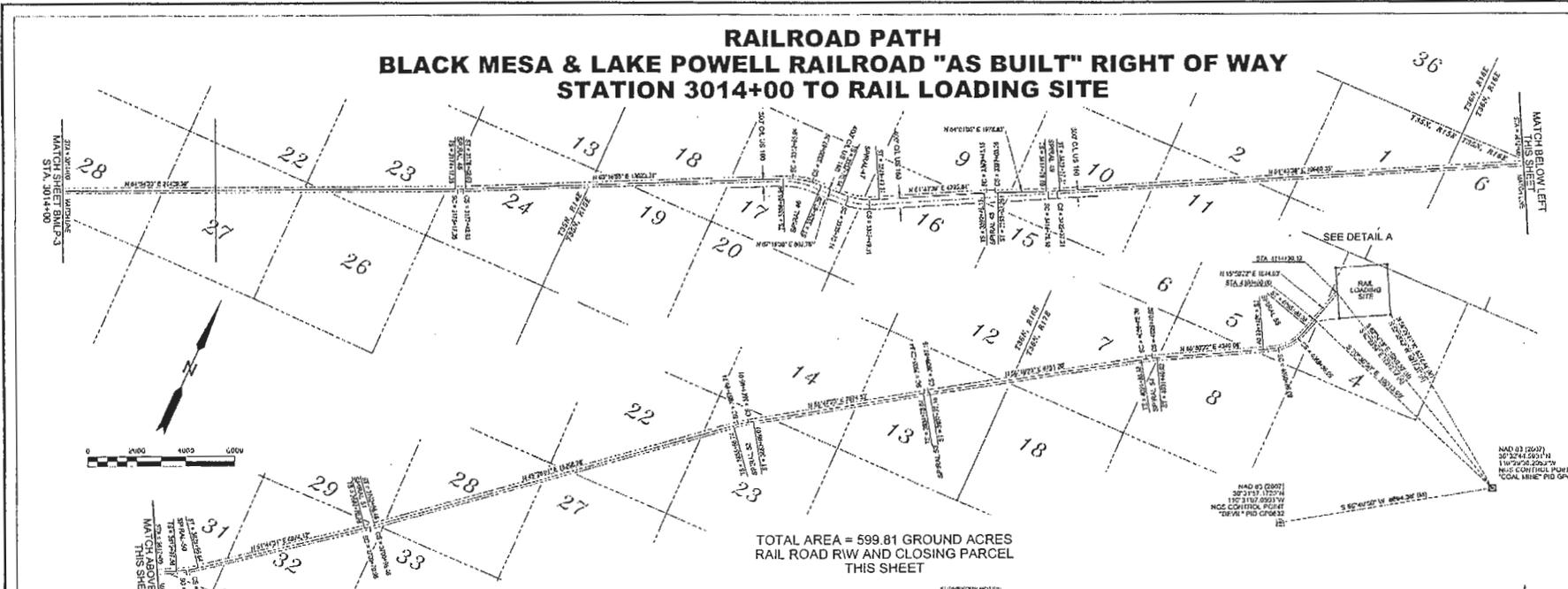
- SURVEYOR'S NOTES:**
- 1) SURVEY OF NEARBY IN THE ARIZONA STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (PROJ) IN CONNECTION WITH THIS SURVEY, FINAL TIME MEASUREMENT (LOCAL POSITIONING SYSTEM) (GPS) (L1) (L2) (L3) (L4) (L5) (L6) (L7) (L8) (L9) (L10) (L11) (L12) (L13) (L14) (L15) (L16) (L17) (L18) (L19) (L20) (L21) (L22) (L23) (L24) (L25) (L26) (L27) (L28) (L29) (L30) (L31) (L32) (L33) (L34) (L35) (L36) (L37) (L38) (L39) (L40) (L41) (L42) (L43) (L44) (L45) (L46) (L47) (L48) (L49) (L50) (L51) (L52) (L53) (L54) (L55) (L56) (L57) (L58) (L59) (L60) (L61) (L62) (L63) (L64) (L65) (L66) (L67) (L68) (L69) (L70) (L71) (L72) (L73) (L74) (L75) (L76) (L77) (L78) (L79) (L80) (L81) (L82) (L83) (L84) (L85) (L86) (L87) (L88) (L89) (L90) (L91) (L92) (L93) (L94) (L95) (L96) (L97) (L98) (L99) (L100) (L101) (L102) (L103) (L104) (L105) (L106) (L107) (L108) (L109) (L110) (L111) (L112) (L113) (L114) (L115) (L116) (L117) (L118) (L119) (L120) (L121) (L122) (L123) (L124) (L125) (L126) (L127) (L128) (L129) (L130) (L131) (L132) (L133) 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# RAILROAD PATH BLACK MESA & LAKE POWELL RAILROAD "AS BUILT" RIGHT OF WAY STATION 3014+00 TO RAIL LOADING SITE



TOTAL AREA = 599.81 GROUND ACRES  
RAIL ROAD RW AND CLOSING PARCEL  
THIS SHEET

RIGHT OF WAY WIDTHS			
REG. STATION	END OF STATION	LEFT OF WAY WIDTH	RIGHT OF WAY WIDTH
3014+00.00	3368+25.24	120'	100'
3368+25.24	3384+42.29	120'	TAPER 100' - 200' *
3384+42.29	3392+45.25	120'	100'
3392+45.25	3637+79.10	120'	TAPER 100' - 100' **
3637+79.10	4074+00.00	120'	100'
4074+00.00	4100+00.00	120'	100'

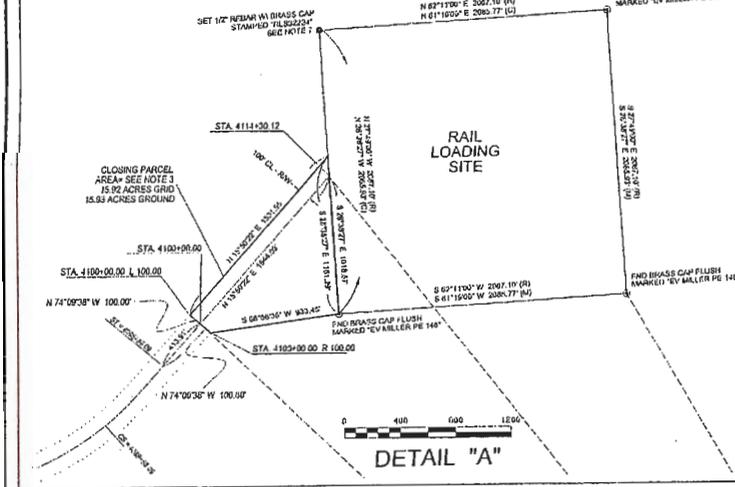
TAPER DEFINED AS WIDTH CHANGE PER LINEAR FOOT OF STATION, DEFINED BY FOLLOWING FORMULA:  
 $\Delta \text{DELTA (N/W) WIDTH} / \Delta \text{DELTA STATION} = \Delta \text{DELTA (N/W) WIDTH PER FOOT OF STATIONING}$   
 \* 100 / 2533.55 = +0.03948 CHANGE OF N/W WIDTH PER FOOT OF STATIONING  
 \*\* 100 / 2533.55 = +0.03948 CHANGE OF N/W WIDTH PER FOOT OF STATIONING

CONTAINING 663.90 ACRES OF RIGHT OF WAY (ON THE ARIZONA STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (822), NORTH AMERICAN DATUM OF 1983, EPOCH 2007 AND BEING 363.90 ACRES (GROSS) ACRES; THIS SHEET ONLY STATION 3014+00.00 TO STATION 4100+00.00  
 CONTAINING 15.92 ACRES OF RIGHT OF WAY (ON THE ARIZONA STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (822), NORTH AMERICAN DATUM OF 1983, EPOCH 2007 AND BEING 15.92 ACRES (GROSS) ACRES; CLOSING PARCEL 15.92 ACRES TO WESTERLY ADJACENCY OF RAIL LOADING STATION

- SURVEYING NOTES:**
- BASED ON BEARINGS IN THE ARIZONA STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (822) WITH GEODETIC RECORDING PERFORMED UTILIZING ORIGINAL POSITIVE METER STICKS WITH PICES PROCEEDED HELIX.
  - DISTANCES NOTED ON THIS DRAWING ARE GRID DISTANCES DERIVED FROM GPS MEASUREMENTS.
  - THIS SURVEY WAS CONDUCTED ON THE ARIZONA STATE PLANE COORDINATE SYSTEM TO OBTAIN THE RELATIVE POSITIONS OF THE LOCATED INFRASTRUCTURE CORNER. CARE HAS BEEN TAKEN TO PROTECT GROUND SURFACE ALIGNMENT. A GRID TO GROUND SCALE FACTOR (OR IRRADIATION) WAS USED TO DERIVE THE GROUND SURFACE ALIGNMENT FOR NEW EASEMENTS IN THIS AREA. GROUND SURFACE ALIGNMENT IS THE GRID TO GROUND SCALE FACTOR ADJUSTED (1.0044998) TO PROTECT GROUND SURFACE ALIGNMENT.
  - FIELD SURVEY FOR THIS PROJECT WAS PERFORMED AS OF 2011.
  - THE PURPOSE OF THIS DRAWING IS TO OBTAIN THE CURRENT CONDITIONS OF EASEMENTS AGREEMENT WITH THE INLAND GENERATION STATION PROJECT 223 GROUND AND LOCATIONS AND EASEMENTS FROM PROFFER DEVELOPMENT AND APPROVAL FOR AREAS (VARIOUS FACILITIES COLLECTED WITH CURRENT EASEMENTS OF 1945-2011).
  - DISTANCES NOTED AS GRID OR GROUND DISTANCES. DISTANCES AND BEARINGS NOTED AS GROUND ARE TAKEN FROM THE INLAND GENERATION STATION PROJECT 223 INLAND RECORDING BOOKS AND PAGES 228-231 OF THE COCHISE COUNTY RECORDS OFFICE, COCHISE COUNTY, ARIZONA, 2013 GRANT IS ALSO RECORDED IN BOOK 117, PAGES 215-216 OF THE INLAND COUNTY RECORDS OFFICE, INLAND COUNTY, ARIZONA.
  - VALUES NOTED AS SET WILL BE SET UPON APPROVAL OF A NEW 100' GRANT WITH EASEMENTS BASED UPON 1945 SURVEY.

- ABBREVIATIONS LEGEND (TYPICAL)**
- |         |                           |
|---------|---------------------------|
| SEC     | SECTION                   |
| T.A.R.# | TOWNSHIP & RANGE #        |
| S.B.S.# | SECTION & SUBSECTION #    |
| COL     | CENTERLINE                |
| R/W     | RIGHT OF WAY              |
| TS      | TANGENT TO SPIRAL         |
| CS      | CURVE TO CURVE            |
| CS      | CURVE TO SPIRAL           |
| ST      | SPINAL TO TANGENT         |
| BLM     | BUREAU OF LAND MANAGEMENT |
| NSD     | NATIONAL SURVEYING DATA   |
| PLD     | PLANNING                  |
| LS      | LAND SURVEYOR             |
| RLS     | REGISTERED LAND SURVEYOR  |

- SYMBOL / LINE LEGEND**
- ▲ HAWK LAMENAS CAP AS NOTED
  - SET BASED CAP AS NOTED
  - SET BASED CAP AS NOTED
  - BLM RIGHT OF WAY LIMIT
  - TO SECTION CORNER CONTROL AND MONUMENTS
  - SECTION LINE
  - PROPOSED LINES FOR SECTION LINE EXTENDED FROM U.S.C. & S. 17300 MAPS



SPIRAL DATA										MAIN CURVE			SPIRAL STATIONS		
SPIRAL NO.	T.S. STATION	INTERNAL ANGLE	DEGREE OF CURVE	CHORD LENGTH (FT)	TANGENT LENGTH (FT)	CHORD BEARING	CHORD DISTANCE (FT)	SPIRAL IN (FT)	SPIRAL OUT (FT)	CENTRAL ANGLE	ARC LENGTH (FT)	RADIUS (FT)	S.C. STATION	C.S. STATION	E.T. STATION
46	3121+47.35	173°30'	0°20'00"	425.28	212.65	NORTH 64°05'42" EAST	426.26	100	100	170°15'	228.56	11446.16	3175+17.36	3177+42.63	3179+42.63
47	3320+48.94	24°01'14"	2°00'00"	1001.44	510.10	NORTH 70°17'47" EAST	1001.44	400	400	150°04'	601.21	18810.94	3200+47.36	3200+47.36	3200+47.36
48	3362+45.16	7°11'20"	0°30'00"	276.11	276.09	NORTH 74°31'08" EAST	1026.61	400	400	17°36'00"	975.17	25614.29	3326+26.16	3325+49.21	3324+49.21
49	3417+19.10	2°13'20"	0°30'00"	276.09	276.09	NORTH 62°52'22" EAST	936.06	100	100	174°28'	258.11	11446.16	3340+16.10	3340+16.10	3340+16.10
50	3418+47.36	0°10'00"	2°00'00"	899.28	450.44	NORTH 55°44'00" EAST	897.47	400	400	150°08'	69.26	2642.78	3523+47.36	3523+47.36	3523+47.36
51	3500+16.10	2°10'30"	1°00'00"	427.60	213.77	NORTH 60°00'00" EAST	427.60	200	200	0°00'00"	27.56	9700.76	3700+16.10	3700+16.10	3700+16.10
52	3564+46.74	0°18'22"	1°00'00"	428.28	418.48	NORTH 65°37'42" EAST	431.46	200	200	4°10'22"	432.22	6720.80	3857+46.74	3857+46.74	3857+46.74
53	3924+72.34	0°32'00"	0°15'00"	203.33	151.80	NORTH 60°00'00" EAST	203.33	50	50	0°00'00"	423.33	22018.31	3950+16.10	3950+16.10	3950+16.10
54	4024+46.26	4°30'00"	1°00'00"	451.44	225.72	NORTH 58°54'32" EAST	451.44	200	200	2°30'00"	251.44	5729.60	4020+46.26	4020+46.26	4020+46.26
55	4024+46.26	42°00'00"	3°00'00"	2186.00	1093.00	NORTH 28°20'22" EAST	2221.82	400	400	27°00'00"	1046.00	40000.00	4000+00.00	4000+00.00	4020+46.26

**BMLP-4**

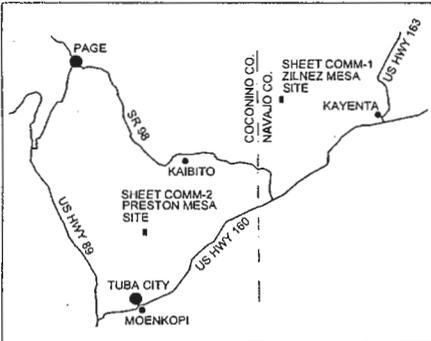
BLACK MESA & LAKE POWELL RAILROAD  
BLACK MESA & LAKE POWELL RAILROAD "AS BUILT" RW  
STATION 3014+00 TO 4174+30.12 LOADING SITE

DATE: 11/27/2013  
SCALE: AS SHOWN  
PROJECT: BMLP-4  
DRAWN BY: JWH  
CHECKED BY: JWH  
APPROVED BY: JWH



# NAVAJO GENERATING STATION PRESTON MESA COMMUNICATION SITE

## A PORTION OF UNSURVEYED SECTION 10, T34N, R11E, GILA AND SALT RIVER MERIDIAN, COCONINO COUNTY, ARIZONA



### ENGINEER'S AFFIDAVIT

STATE OF ARIZONA )  
COUNTY OF MOHAVE ) SS.  
I, STAN ODEY, BEING DULY SWORN, STATES THAT HE IS A REGISTERED LAND SURVEYOR THAT HE MADE THE SURVEY OF A PROPOSED HIGHWAY THAT AS DESCRIBED AND SHOWN ON THIS MAP, TO BE GRANTED TO THE HIGHWAY DEPARTMENT OF THE APPLICANT, THAT SURVEY OF SUCH RIGHT-OF-WAY SHALL BECOME HIS OWN PROPERTY AND UNDER APPLICANT'S AUTHORITY, COMMENCING JUNE, 2011 AND ENDING OCTOBER, 2011, THAT SUCH SURVEY IS ACCURATELY SHOWN ON THIS MAP.

### ARIZONA SURVEYORS CERTIFICATE

I, STAN ODEY, AN ARIZONA REGISTERED SURVEYOR NO. 37224, DO HEREBY CERTIFY THAT THIS SURVEY WAS MADE AND THE ACTUAL SURVEY ON THE GROUND AND FIELD NOTES WERE MADE BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION DURING THE MONTHS OF JUNE 2011 TO OCTOBER 2011 AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

STAN ODEY  
REGISTERED SURVEYOR  
NO. 37224  
MOHAVE COUNTY, ARIZONA

SUBSCRIBED AND SWORN BEFORE ME THIS \_\_\_\_ DAY OF \_\_\_\_  
NOTARY PUBLIC

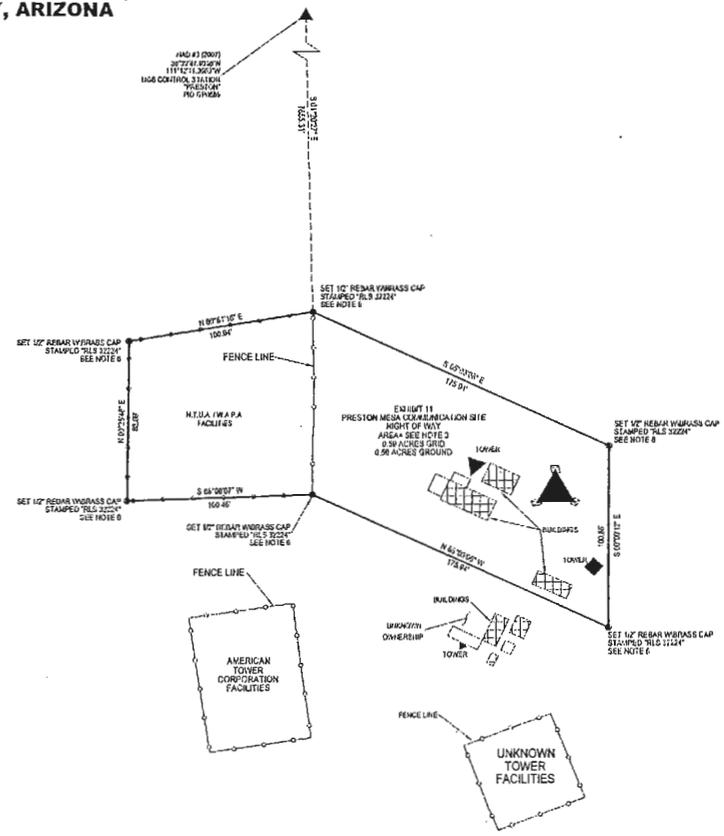
### APPLICANT'S AFFIDAVIT

STATE OF ARIZONA )  
COUNTY OF MOHAVE ) SS.  
I, \_\_\_\_\_, BEING DULY SWORN, STATES THAT I AM THE PRESIDENT OF \_\_\_\_\_ (HEREIN AFTER CALLED THE "APPLICANT") THAT STAN ODEY HAS PREPARED THE FOREGOING AFFIDAVIT AND HAS DECLARED AS THE ENGINEER BY THE APPLICANT THAT THE SURVEY OF THE RIGHT-OF-WAY IS ACCURATELY REPRESENTED ON THE ACCOMPANYING MAP AND WAS ACCEPTED BY THE APPLICANT ON THE DAY OF \_\_\_\_ AS THE CORRECT LOCATION OF THE LINE AND THAT THE MAP HAS BEEN PREPARED TO BE FILED FOR THE APPROVAL OF THE BOARD OF SUPERVISORS.

SUBSCRIBED AND SWORN BEFORE ME THIS \_\_\_\_ DAY OF \_\_\_\_  
NOTARY PUBLIC

- ### ABBREVIATIONS LEGEND (TYPICAL)
- SEC SECTION
  - T&R Township Range &
  - G & S GILA & SALT RIVER MERIDIAN
  - CL CENTERLINE
  - R/W RIGHT OF WAY
  - ARS ARIZONA POWER SERVICE
  - NTLA NAVAJO TRIBAL LAND AUTHORITY
  - W.P.A. WESTERN ARIZONA POWER ADMINISTRATION
  - NGS NATIONAL GEODETIC SURVEY
  - POD POINT
  - LS LAND SURVEYOR
  - RLS REGISTERED LAND SURVEYOR
- ### SYMBOL / LINE LEGEND
- ▲ FOUND CONTROL POINT AS NOTED
  - SET BRASS CAP AS NOTED
  - FENCE CHAIN LINK
  - - - - - TO SET FULL CORNER (CONTRASTING MATERIALS)
  - - - - - RIGHT OF WAY BOUNDARY LINE

- ### SURVEYING NOTES
- 1) BARS OF SCANNED IN THE ARIZONA STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (NAD 83) WITH GEODETIC HEIGHTS NOT BARRIED UTILIZING GLOBAL POSITIONING SYSTEM (GPS) WITH POST PROCESSED METHOD.
  - 2) DISTANCES INDICED ARE GRID DISTANCES DERIVED FROM THE GPS MEASUREMENTS. NO CONTROL STATION PRESENT WHICH WOULD BE CORRECTED FACTOR (ROUND TO GRID) OF APPROXIMATE.
  - 3) THIS SURVEY WAS CONDUCTED ON THE ARIZONA STATE PLANE COORDINATE SYSTEM TO OBTAIN THE RELATIVE POSITIONING OF THE LOCAL FACILITIES AND FOUND CORRECT. GPS WAS USED TO OBTAIN GROUND SURFACE AREAS. A GRID TO GROUND SCALE FACTOR OF 1.000001 WAS USED TO CORRECT THE SHOWN DIMENSIONS FOR THE BARRIERS IN THIS AREA. GRID AREAS WERE MULTIPLIED BY THE GRID TO GROUND SCALE FACTOR SQUARED (1.000002) TO PRODUCE GROUND (UNWARRANTED) AREAS.
  - 4) FIELD SURVEY FOR THIS PROJECT WAS PERFORMED IN OCTOBER OF 2011.
  - 5) THE PURPOSE OF THIS DRAWING IS TO OBTAIN THE CHAIN OF TITLES OR BASE LINES IN AGREEMENT WITH THE NAVAJO GENERATING STATION PROJECT 333 GRANT, AND DELINEATE NEW BASEMENTS, SUPPLY PROPER APPLICATION AND APPROVAL FOR AREAS HAVING FACILITIES COEXISTING WITH CURRENT ENCUMBRANCES OF SAID 333 GRANT.
  - 6) ENCUMBRANCES NOTED AS SET SHALL BE SET UPON APPROVAL OF A NEW 333 GRANT WITH EXHIBITS BASED UPON THIS SURVEY.



PROJECT NO.	37224	DATE	2011	DRAWN BY	STAN ODEY
CLIENT	NAVajo GENERATING STATION	PROJECT NO.	333	DATE	2011
DATE	2011	PROJECT NO.	333	DATE	2011
DATE	2011	PROJECT NO.	333	DATE	2011
DATE	2011	PROJECT NO.	333	DATE	2011

**COMM-2**

**NAVAJO GENERATING STATION  
PRESTON MESA COMMUNICATION SITE**

Rail Road

R/W

R/W 2320

RETURN TO

RIGHT OF WAY DIV.  
SALT RIVER PROJECT  
P. O. BOX 1980  
PHOENIX, ARIZ. 85001

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No. 1283

INDEXED AND  
MICROFILMED

RECORDED AT REQUEST OF Salt River Project  
February 24<sup>th</sup> A. D. 1971 at 11:15 o'clock A. M.  
Book 381 Pages 50-123  
Navajo County, Arizona.  
Edna Mae Thornton County Recorder  
By Virginia Pennington Deputy

GRANT

OF

FEDERAL RIGHTS-OF-WAY AND EASEMENTS

(25 U.S.C. §323)

NAVAJO PROJECT

MICROFILMED  
INDEXED

#1987  
FILED AND RECORDED AT THE REQUEST OF

SALT RIVER PROJECT

4 March A. D. 1971 AT 10:20 O'CLOCK A. M.

IN DOCKET 338 Off. Records PAGES 408-481 Incl.

RECORDS OF NAVAJO COUNTY, ARIZONA

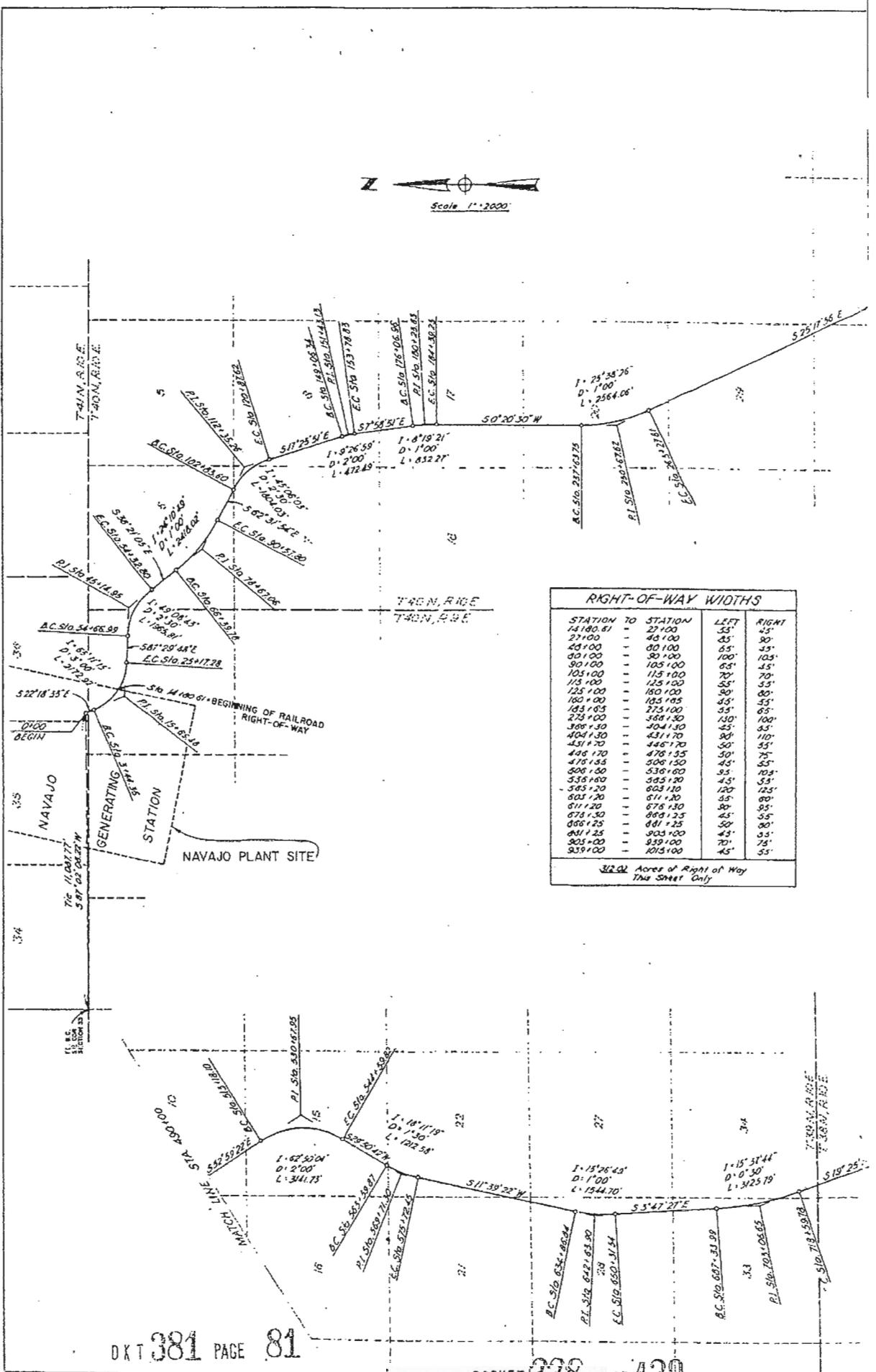
Edna Mae Thornton RECORDER

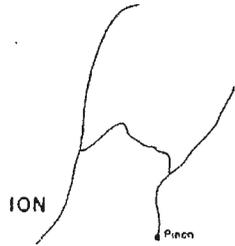
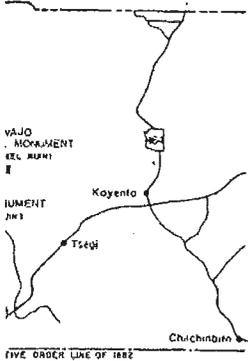
Coconino

BOOK 381 PAGE 50

NAVAJO

DOCKET 338 PAGE 408





17 Acres Navajo Reservation  
 7 Acres 1882 Reservation  
 6 Total Acres

ENGINEER'S AFFIDAVIT  
 STATE OF ARIZONA  
 COUNTY OF MARICOPA

I, CARL F. MILLER, BEING FIRST DULY SWORN, DEPOSES AND STATES THAT HE IS THE CIVIL ENGINEER, REGISTRATION NUMBER 148, EMPLOYED BY AND ON BEHALF OF THE APPLICANTS THAT THE SURVEY WAS MADE UNDER HIS DIRECTION; THAT HE HAS EXAMINED THE FIELD NOTES OF THE SURVEY FOR THE NAVAJO GENERATING STATION COAL HAUL RAILROAD RIGHT OF WAY AND EASEMENTS AS DESCRIBED AND SHOWN ON MAPS DESIGNATED AS EXHIBIT A, EXHIBIT B, EXHIBIT C, EXHIBIT D, AND ACCOMPANYING FIELD NOTES DESIGNATED EXHIBITS 1-4; THAT THE MAPS AND EXHIBITS WERE PREPARED UNDER HIS DIRECTION FROM FIELD NOTES; AND THAT SAID RIGHT OF WAY COMPRISING THE WIDTH, LENGTHS AND ACRESSES SITUATED IN TOWNSHIP 40 NORTH, RANGE 8 EAST; TOWNSHIPS 38, 39 AND 40 NORTH, RANGE 10 EAST; TOWNSHIPS 37 AND 38 NORTH, RANGE 11 EAST; TOWNSHIPS 35 AND 37 NORTH, RANGE 12 EAST; TOWNSHIP 35 NORTH, RANGES 12, 12 1/2, 13 AND 14 EAST; TOWNSHIP 35 NORTH, RANGE 12 EAST; TOWNSHIP 35 NORTH, RANGE 14 EAST; TOWNSHIPS 35 AND 36 NORTH, RANGE 15 EAST; TOWNSHIP 36 NORTH, RANGE 16 AND 17 EAST, (UNSURVEYED) OF THE GILA AND SALT RIVER BASE AND MERIDIAN ARE ACCURATELY LOCATED, SHOWN, AND DESCRIBED ON THE MAPS AND EXHIBITS.

*Carl F. Miller*  
 CARL F. MILLER, CIVIL ENGINEER



SUBSCRIBED AND SWORN TO BEFORE ME THIS 21st DAY OF August, 1970  
 BY *Carl F. Miller*  
 NOTARY PUBLIC  
 MY COMMISSION EXPIRES ON September 28, 1971

APPLICANT'S CERTIFICATE

I, ATTEST THAT WE HAVE BEEN AUTHORIZED TO EXECUTE THIS CERTIFICATE FOR AND ON BEHALF OF OUR RESPECTIVE COMPANIES, SALT RIVER PROJECT AGRICULTURAL IMPROVEMENT AND POWER DISTRICT, ICE COMPANY, METRO POWER COMPANY, DEPARTMENT OF WATER AND POWER OF THE CITY OF LOS ANGELES, AND TUCSON GAS AND ELECTRIC COMPANY, THE FOREGOING FIVE ENTITIES BEING THE APPLICANTS HEREIN; CIVIL ENGINEER, REGISTRATION NUMBER 148, WHO SUBSCRIBER TO THE FOREGOING ENGINEER'S AFFIDAVIT, IS EMPLOYED BY AND ON BEHALF OF THE APPLICANTS AS A CIVIL ENGINEER AND THAT HE HAS LICENSURE TO SURVEY THE LOCATION OF THE NAVAJO GENERATING STATION COAL HAUL RAILROAD RIGHT OF WAY AND EASEMENTS AND TO PREPARE MAPS DESIGNATED AS EXHIBIT A, EXHIBIT B, EXHIBIT C, AND NOTES DESIGNATED AS EXHIBITS 1-4, WHICH ARE FILED IN CONNECTION WITH AN APPLICATION FOR RIGHT OF WAY AND EASEMENTS, PURSUANT TO THE PROVISIONS OF THE ACT OF FEBRUARY 5, 1949 (62 STAT. 323-324), THE ACT OF MARCH 3, 1919 (40 STAT. 504, 5 U.S.C. § 415), AS AMENDED, AND THE ACTS OF JULY 9, 1932, AND JULY 27, 1933 (48 STAT. 584, 15 STAT. 278, 29 U.S.C. § 2), AND SUCH OTHER LAWS AS ARE APPLICABLE, INCLUDING 25 C.M.R. § 1.2 AND PART 151, FOR A PERIOD OF 30 YEARS FROM \_\_\_\_\_, WITH EIGHTH OF GENERAL, AS EXECUTED BY APPLICANTS; THAT THE SAID RIGHT OF WAY AND EASEMENTS AS SHOWN BY THESE MAPS AND EXHIBITS; THAT THE AREA OCCUPIED BY THE RAILROAD RIGHT OF WAY IS 1,308.74 ACRES AND IS 30.305 MILES IN LENGTH; AND THE ABOVE MAPS AND EASEMENTS ARE ACCURATELY REPRESENTED ON THE MAPS AND EXHIBITS; THAT SUCH SURVEY AS REPRESENTED ON THE MAPS AND EXHIBITS HAS BEEN ADOPTED BY THE APPLICANTS AS THE DEFINITE RIGHT OF WAY AND EASEMENTS HEREBY SHOWN AND THAT THE MAPS AND EXHIBITS HAVE BEEN PREPARED TO BE FILED FOR THE APPROVAL OF THE SECRETARY OF THE INTERIOR, OR HAS BEEN AUTHORIZED PART OF THE APPLICATION FOR SAID RIGHT OF WAY AND EASEMENTS TO BE GRANTED TO THE APPLICANTS, THEIR SUCCESSORS AND ASSIGNS, WITH THE RIGHT TO CONSTRUCT, INSTALL, OPERATE, MAINTAIN, REPAIR, AND REMOVE IMPROVEMENTS THEREON AND THEREAFTER FOR SUCH PURPOSES AND WITH THE FURTHER RIGHT OF THE APPLICANTS, THEIR SUCCESSORS AND ASSIGNS, TO TRANSFER THEIR RESPECTIVE INTERESTS IN AND EASEMENTS BY ASSIGNMENT, GRANT OR OTHERWISE.

ICE COMPANY	SALT RIVER PROJECT AGRICULTURAL IMPROVEMENT AND POWER DISTRICT	DEPARTMENT OF WATER AND POWER CITY OF LOS ANGELES, BY THE BOARD OF WATER AND POWER COMMISSIONERS	TUCSON GAS AND ELECTRIC COMPANY	METRO POWER COMPANY
<i>John Smith</i> PRESIDENT	<i>John Smith</i> PRESIDENT	<i>John Smith</i> PRESIDENT	<i>John Smith</i> PRESIDENT	<i>John Smith</i> PRESIDENT
<i>John Smith</i> ATTORNEY AND COUNSELOR AT LAW	<i>John Smith</i> ATTORNEY AND COUNSELOR AT LAW	<i>John Smith</i> ATTORNEY AND COUNSELOR AT LAW	<i>John Smith</i> ATTORNEY AND COUNSELOR AT LAW	<i>John Smith</i> ATTORNEY AND COUNSELOR AT LAW

SCHEDULE OF EXHIBITS

FIELD NOTES	for	MAPS
EXHIBIT 1	TO	EXHIBIT A
EXHIBIT 2	TO	EXHIBIT B
EXHIBIT 3	TO	EXHIBIT C
EXHIBIT 4	TO	EXHIBIT D

EXHIBIT A  
 APPLICATION FOR RIGHT OF WAY  
 NAVAJO GENERATING STATION COAL HAUL RAILROAD  
 ON OR ACROSS  
 TOWNSHIP 40 NORTH RANGE 8 EAST  
 AND  
 TOWNSHIPS 38 & 40 NORTH RANGE 10 EAST  
 (UNSURVEYED)  
 GILA AND SALT RIVER BASE AND MERIDIAN

FILED BY *Carl F. Miller* SEPTEMBER 14 1970  
 APPROVED BY *Carl F. Miller* SCALE AS SHOWN  
 DRAWN & COPIED BY *Carl F. Miller* ENGINEER

EXHIBIT 1

NAVAJO COAL HAUL RAILROAD  
RIGHT-OF-WAY LINE DESCRIPTION

NOTE: The following abbreviations shall be used in this description;

E.S. - Engineers Station  
B.C. - Beginning of Curve  
E.C. - End of Curve

The Navajo Coal Haul Railroad shall consist of a strip of land of variable width lying on each side of the following described line:

Beginning at the Southeast corner of Section 33, Township 41 North, Range 9 East, Gila and Salt River Base and Meridian, Coconino County, Arizona.

Thence North 87 degrees, 02', 8.22" East, 11,087.77 feet to E.S. 0+00;

Thence South 22 degrees, 18', 33" East, 344.36 feet to E.S. 3+44.36 B.C.;

Thence along the arc of a 1909.86' radius curve to the left, 1136.25' to E.S. 14+80.61 which is the point of beginning of Navajo Coal Haul Railroad; then continue along arc of said curve 1036.67 to E.S. 25+17.28 E.C.

Thence South 87 degrees, 29', 48" East, 949.71 feet to E.S. 34+66.99 B.C.

Thence along the arc of 2,291.83 foot radius curve to the right, 1,965.81 feet to E.S. 54+32.80 E.C.;

Thence South 38 degrees, 21', 05" East, 1,206.98 feet to E.S. 66+39.78;

Thence along the arc of a 5,729.58 foot radius curve to the left, 2,418.02 feet to E.S. 90+57.80 E.C.;

Thence South 62 degrees 31', 54" East, 1,225.80 feet to E.S. 102+83.60 B.C.;

Thence along the arc of a 2,291.83 foot radius curve to the right, 1,804.03 feet to E.S. 120+87.62 E.C.;

Thence South 17 degrees, 25', 51" East, 2,818.72 feet to E.S. 149+06.34 B.C.;

Thence along the arc of a 2,864.79 foot radius curve to the right, 472.49 feet to E.S. 153+78.83 E.C.;

Thence South 7 degrees, 58' 51" East, 2,228.13 feet to E.S. 176+06.96 B.C.;

Thence along the arc of a 5,729.58 foot radius curve to the right, 832.27 feet to E.S. 184+39.23 E.C.;

Thence South 0 degrees, 20', 30" West, 5,324.52 feet to E.S. 237+63.75 B.C.;

Thence along the arc of a 5,729.58 foot radius curve to the left 2,564.06 feet to E.S. 263+27.81 E.C.;

Thence South 25 degrees, 17', 56" East, 14,104.11 feet to E.S. 404+31.92 B.C.;

Thence along the arc of a 5,729.58 foot radius curve to the right, 1,487.49 feet to E.S. 419+19.41 E.C.;

Thence South 10 degrees, 25', 27" East, 1,979.05 feet to E.S. 438+98.46 B.C.;

Thence along the arc of a 5,729.58 foot radius curve to the left, 2,256.55 feet to E.S. 461+55.01 E.C.;

Thence South 32 degrees, 59', 22" East, 5,163.09 feet to E.S. 513+18.10 B.C.;

Thence along the arc of a 2,864.79 foot radius curve to the right, 3,141.73 feet to E.S. 544+59.82 E.C.;

Thence South 29 degrees, 50', 42" West, 1,900.05 feet to E.S. 563+59.87 B.C.;

Thence along the arc of a 3,819.71 foot radius curve to the left, 1,212.58 feet to E.S. 575+72.45 E.C.;

Thence South 11 degrees, 39', 22" West, 5,914.39 feet to E.S. 634+86.84 B.C.;

Thence along the arc of a 5,729.58 foot radius curve to the left, 1,544.70 feet to E.S. 650+31.54 E.C.;

Thence South 3 degrees, 47', 27" East, 3,702.45 feet to E.S. 687+33.99 B.C.;

Thence along the arc of a 11,459.20 foot radius curve to the left  
3,125.79 feet to E.S. 718+59.78 E.C.;

Thence South 19 degrees, 25', 11" East, 4,529.18 feet to E.S. 763+88.96  
B.C.;

Thence along the arc of a 11,459.20 foot radius curve to the left  
2,765.73 feet to E.S. 791+54.69 E.C.;

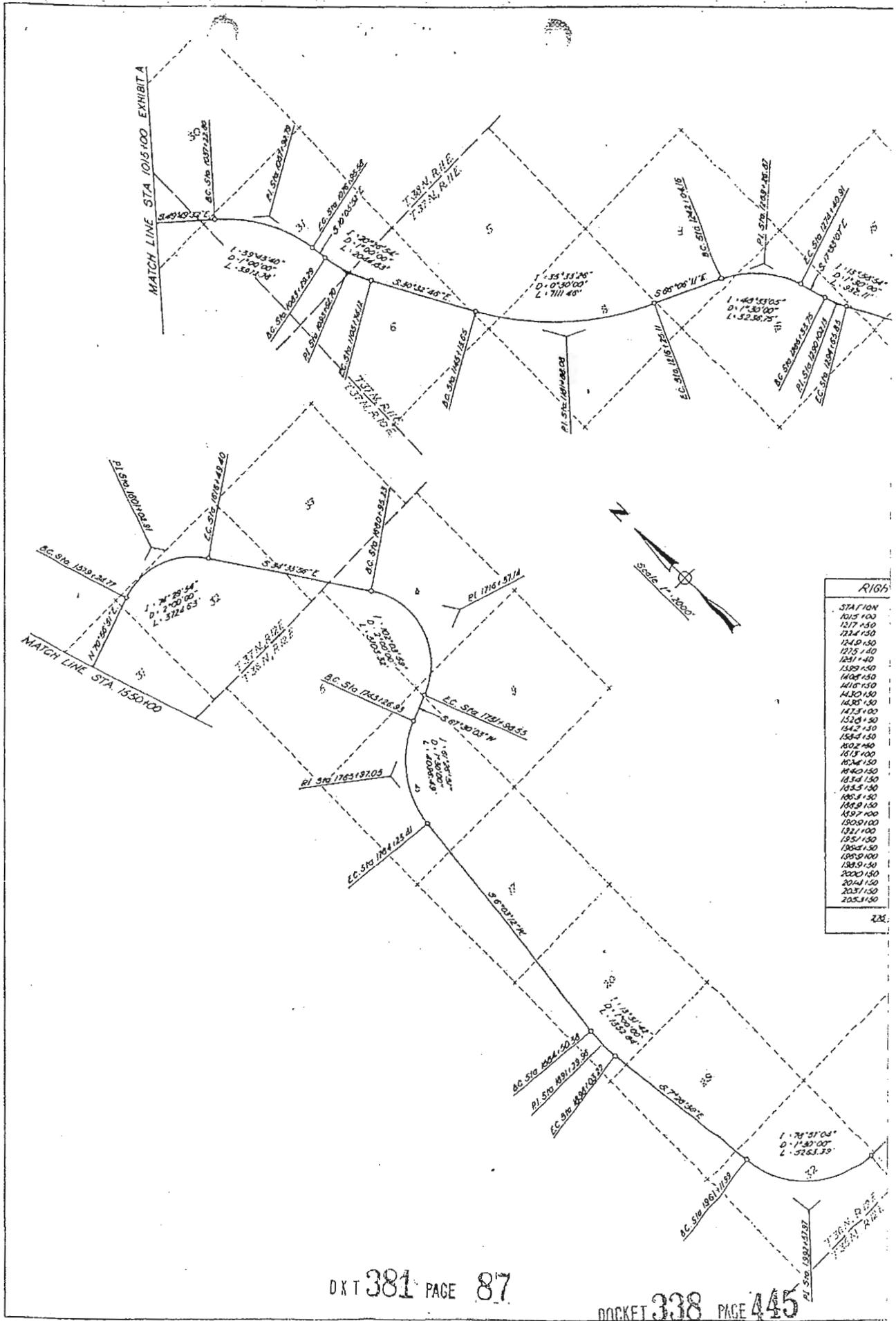
Thence South 33 degrees, 14', 54" East, 13,641.38 feet to E.S.  
927+96.07 B.C.;

Thence along the arc of a 11,459.20 foot radius curve to the right,  
3,303.45 feet to E.S. 960+99.52 E.C.;

Thence South 16 degrees, 43', 52" East, 1,123.85 feet to E.S.  
972+23.37 B.C.;

Thence along the arc of a 5,729.58 foot radius curve to the left,  
3,309.45 feet to E.S. 1005+32.82 E.C.;

Thence South 49 degrees, 49' 32" East, 3189.98 feet to E.S. 1037+22.80  
B.C. (continued on Exhibit B)



RIGHT

STATION
1015+00
1017+50
1024+00
1031+00
1038+00
1045+00
1052+00
1059+00
1066+00
1073+00
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1087+00
1094+00
1101+00
1108+00
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1122+00
1129+00
1136+00
1143+00
1150+00
1157+00
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1227+00
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1528+00
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1549+00
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1563+00
1570+00
1577+00
1584+00
1591+00
1598+00
1605+00
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REFERENCE: EXHIBIT B

Beginning at E.S. 1005+32.82 E.C. (Exhibit A) thence South 49 degrees 49', 32" East, 3,189.98 feet to E.S. 1037+22.80 B.C.;

Thence along the arc of a 5,729.58 foot radius curve to the right, 3,972.78 feet to E.S. 1076+95.58 E.C.;

Thence South 10 degrees, 05', 52" East, 633.71 feet to E.S. 1083+29.29 B.C.;

Thence along the arc of a 5,729.58 foot radius curve to the left, 2,044.83 feet to E.S. 1103+74.12 E.C.;

Thence South 30 degrees, 32', 46" East, 4,139.54 feet to E.S. 1145+13.65 B.C.;

Thence along the arc of a 11,459.20 foot radius curve to the left, 7,111.46 feet to E.S. 1216+25.11 E.C.;

Thence South 66 degrees, 06', 11" East, 2,579.05 feet to E.S. 1242+04.16 B.C.;

Thence along the arc of a 3,819.71 foot radius curve to the right, 3,236.75 feet to E.S. 1274+40.91 E.C.;

Thence South 17 degrees, 33', 07" East, 1,092.84 feet to E.S. 1285+33.75 B.C.;

Thence along the arc of a 3,819.71 foot radius curve to the left, 932.11 feet to E.S. 1294+65.85 E.C.;

Thence South 31 degrees, 32', 00" East, 6,313.35 feet to E.S. 1357+79.20 B.C.;

Thence along the arc of a 2,864.79 foot radius curve to the left, 2,897.46 feet to E.S. 1386+76.66 E.C.;

Thence South 89 degrees, 28', 57" East, 973.71 feet to E.S. 1396+50.37 B.C.;

Thence along the arc of a 5,729.58 foot radius curve to the right, 6,330.73 feet to E.S. 1459+81.09 E.C.;

Thence South 26 degrees, 10', 31" East, 1,644.60 feet to E.S. 1476+25.69 B.C.;

Thence along the arc of a 3,819.71 foot radius curve to the left, 5,525.52 feet to E.S. 1531+51.21 E.C.;

Thence North 70 degrees, 56', 31" East, 4,773.56 feet to E.S.  
1579+24.77 B.C.;

Thence along the arc of a 2,864.79 foot radius curve to the right,  
3,724.63 feet to E.S. 16.16+49.40 E.C.;

Thence South 34 degrees, 33', 56" East, 6,445.83 feet to E.S.  
1680+95.23 B.C.;

Thence along the arc of a 2,864.79 foot radius curve to the right,  
5,103.32 feet to E.S. 1731+98.55 E.C.;

Thence South 67 degrees, 30', 03" West, 1,128.38 feet to E.S. 1743+26.93  
B.C.;

Thence along the arc of a 3,819.71 foot radius curve to the left,  
4,096.49 feet to E.S. 1784+23.41 E.C.;

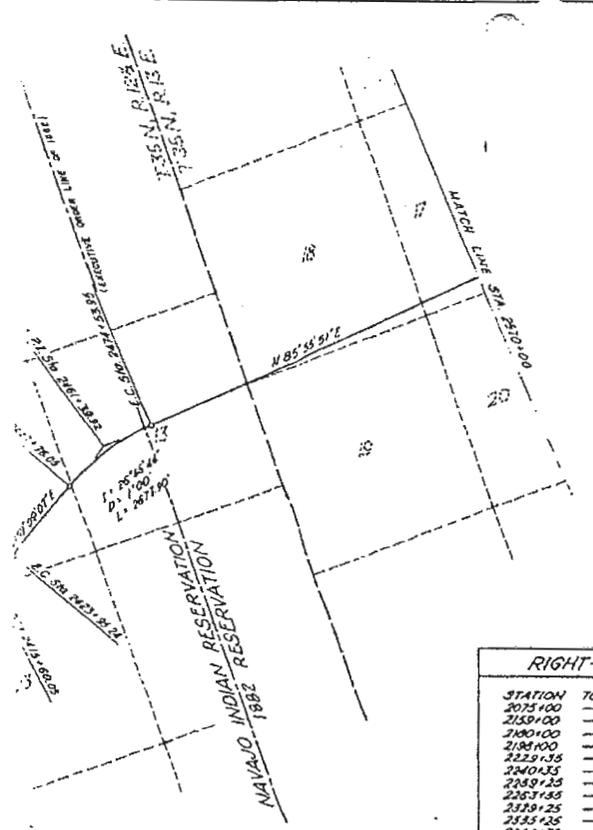
Thence South 6 degrees, 03', 12" West, 10,026.96 feet to E.S.  
1884+50.38 B.C.;

Thence along the arc of a 5,729.58 foot radius curve to the left,  
1,352.84 feet to E.S. 1898+03.22 E.C.;

Thence South 7 degrees, 28', 30" East, 6,308.77 feet to E.S.  
1961+11.99 B.C.;

Thence along the arc of a 3,819.71 foot radius curve to the left,  
5,263.39 feet to E.S. 2013+75.38 E.C.;

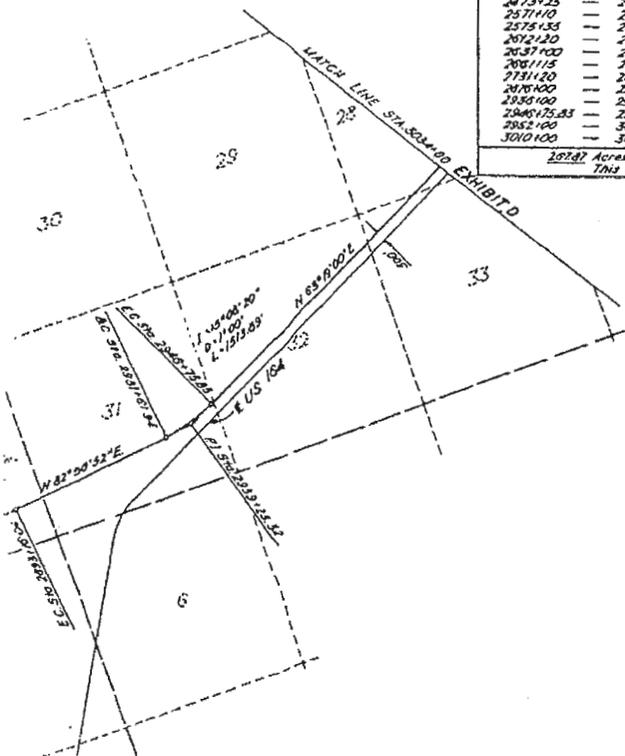
Thence South 86 degrees, 25', 34" East, 6645.41 feet to E.S.,  
2080+20.79 B.C. (continued on Exhibit C).



NOTE: GRID BEARINGS  
 Grid bearings are based on the  
 Arizona State Plane Coordinate  
 System - Central Zone

RIGHT-OF-WAY WIDTHS				
STATION	TO	STATION	LEFT	RIGHT
2075+00	---	2150+00	45'	55'
2080+00	---	2180+00	70'	75'
2100+00	---	2198+00	08'	70'
2180+00	---	2229+35	45'	55'
2229+35	---	2240+35	00'	70'
2240+35	---	2259+25	45'	55'
2259+25	---	2263+55	55'	00'
2263+55	---	2329+25	45'	55'
2329+25	---	2355+25	55'	05'
2355+25	---	2359+35	00'	30'
2359+35	---	2361+45	55'	05'
2361+45	---	2380+30	45'	55'
2380+30	---	2382+30	55'	00'
2382+30	---	2395+25	45'	55'
2395+25	---	2401+25	00'	70'
2401+25	---	2405+30	45'	55'
2405+30	---	2419+30	65'	75'
2419+30	---	2427+45	45'	05'
2427+45	---	2434+45	00'	70'
2434+45	---	2452+45	45'	55'
2452+45	---	2451+55	30'	00'
2451+55	---	2453+55	45'	55'
2453+55	---	2457+55	70'	75'
2457+55	---	2470+10	45'	55'
2470+10	---	2473+25	70'	75'
2473+25	---	2577+10	45'	45'
2577+10	---	2575+85	70'	75'
2575+85	---	2612+20	45'	35'
2612+20	---	2637+00	50'	55'
2637+00	---	2651+15	45'	55'
2651+15	---	2731+20	55'	00'
2731+20	---	2876+00	45'	55'
2876+00	---	2880+00	120'	130'
2880+00	---	2880+75.83	75'	75'
2880+75.83	---	2882+00	25'	100'
2882+00	---	3010+00	80'	100'
3010+00	---	3034+00	00'	100'

2878.82 Acres of Right of Way  
 This sheet only



SCHEDULE OF EXHIBITS

FIELD NOTES	FOR	MAPS
EXHIBIT 1	TO	EXHIBIT A
EXHIBIT 2	TO	EXHIBIT B
EXHIBIT 3	TO	EXHIBIT C
EXHIBIT 4	TO	EXHIBIT D

EXHIBIT C  
 APPLICATION FOR RIGHT OF WAY  
 HAYAJO GENERATING STATION COAL HAUL RAILROAD  
 ON OR ACROSS  
 TOWNSHIP 36 NORTH RANGES 12, 13, 14 & 16 EAST  
 AND  
 TOWNSHIP 36 NORTH RANGE 12 EAST  
 (UNSWAYED)  
 GILA AND SALT RIVER BASE AND HERITAGE

CHECKED BY: [Signature] SEPTEMBER 16, 1959  
 APPROVED BY: [Signature] AS SHOWN  
 DESIGN & CONSTRUCTION BY: [Signature] ENGINEER

Exhibit 3

REFERENCE: EXHIBIT C

Sheet 1 of 2

Beginning at E.S. 2013+75.38 E.C. (Exhibit B)

Thence South 86 degrees, 25', 34" East, 6,645.41 feet to E.S.  
2080+20.79 B.C.;

Thence along the arc of a 5,729.58 foot radius curve to the right,  
8004.66 feet to E.S. 2160+25.45 E.C.;

Thence South 6 degrees, 22', 46" East, 1,113.30 feet to E.S.  
2171+38.75 B.C.;

Thence along the arc of a 5,729.58 foot radius curve to the left  
2,598.94 feet to E.S. 2197+37.69 E.C.;

Thence South 32 degrees, 22', 08" East, 9,289.06 feet to E.S.  
2290+26.75 B.C.;

Thence along the arc of a 2,291.83 foot radius curve to the left  
3,103.29 feet to E.S. 2321+30.04 E.C.;

Thence North 70 degrees, 02', 56" East, 2,065.23 feet to E.S.  
2341+95.27 B.C.;

Thence along the arc of a 2,291.83 foot radius curve to the right,  
1,350.12 feet to E.S. 2355+45.39 E.C.;

Thence South 76 degrees, 11' 53" East, 631.91 feet to E.S. 2361+77.30 B.C.

Thence along the arc of a 2,291.83 foot radius curve to the left,  
1,446.73 feet to E.S. 2376+24.03 E.C.;

Thence North 67 degrees, 38' 01" East, 776.82 feet to E.S. 2384+00.85  
B.C.;

Thence along the arc of a 2,291.83 foot radius curve to the right,  
1,423.48 feet to E.S. 2398+24.33 E.C.;

Thence South 76 degrees, 46', 46" East, 808.17 feet to E.S.  
2406+32.50 B.C.;

Thence along the arc of a 2,291.83 foot radius curve to the left  
1,762.75 feet to E.S. 2423+95.24 E.C.;

Thence North 59 degrees, 09', 07" East, 2,380.81 feet to E.S.  
2447+76.05 B.C.;

Thence along the arc of a 5,729.58 foot radius curve to the right,  
2,677.90 feet to E.S. 2474+53.95 E.C.;

Thence North 85 degrees, 55' 51" East, 10,692.85 feet to E.S.  
2581+46.80 B.C.;

Thence along the arc of a 2,864.79 foot radius curve to the right,  
2,836.80 feet to E.S. 2609+83.59 E.C.;

Thence South 37 degrees, 19' 59" East, 1,269.95 feet to E.S.  
2622+53.54 B.C.;

Thence along the arc of a 3,819.71 foot radius curve to the left,  
2,444.18 feet to E.S. 2646+97.72 E.C.;

Thence South 73 degrees, 59' 45" East, 856.26 feet to E.S.  
2655+53.98 B.C.;

Thence along the arc of a 2,864.79 foot radius curve to the right,  
2,330.85 feet to E.S. 2678+84.82 E.C.;

Thence South 27 degrees, 22' 45" East, 2,586.65 feet to E.S.  
2704+71.47 B.C.;

Thence along the arc of a 3,819.71 foot radius curve to the left,  
4,821.53 feet to E.S. 2752+93.00 E.C.;

Thence North 80 degrees, 17' 52" East 4,290.60 feet to E.S.  
2795+83.60 B.C.;

Thence along the arc of a 2,291.83 foot radius curve to the right  
3,451.20 feet to E.S. 2830+34.79 E.C.;

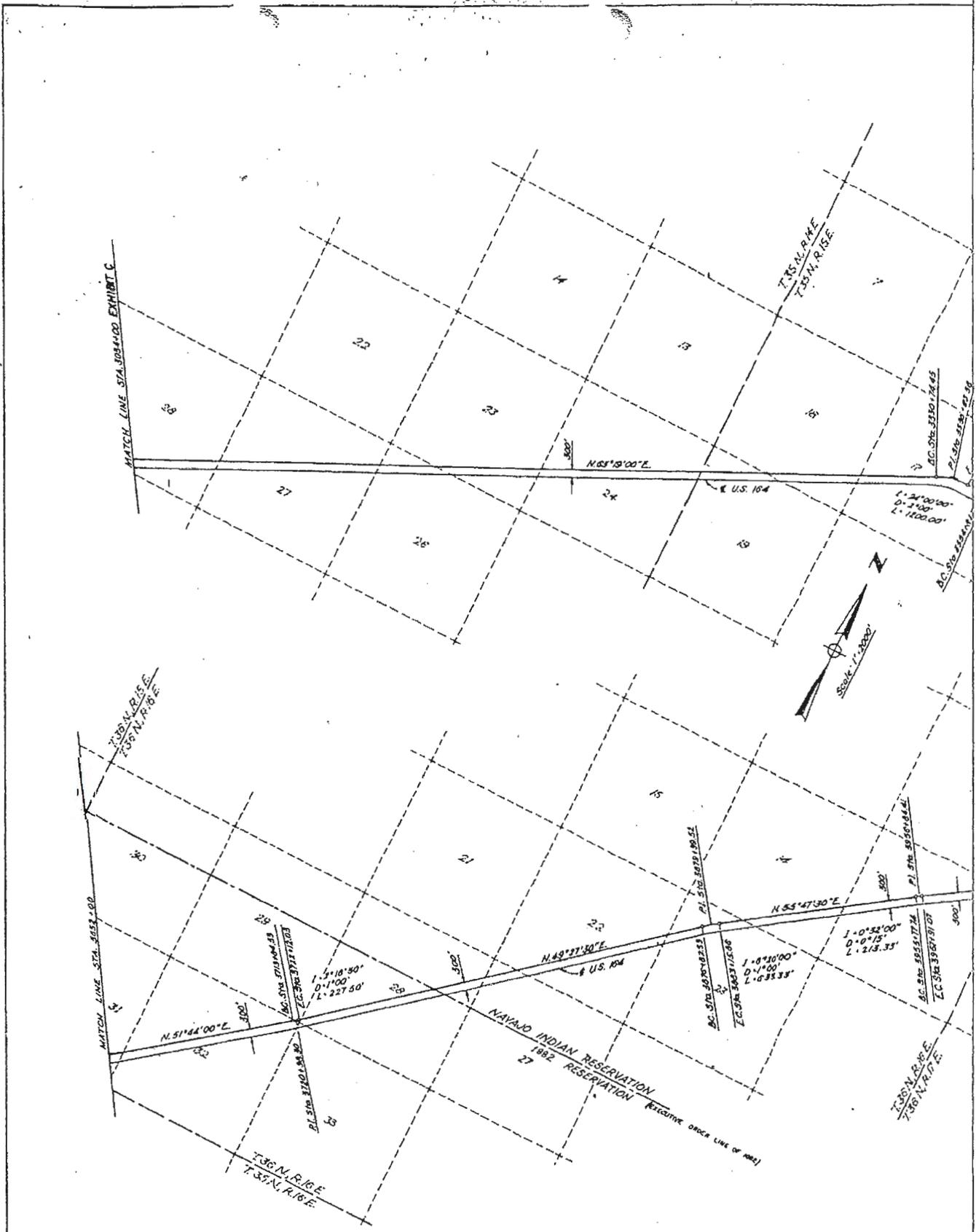
Thence South 13 degrees, 25' 20" East, 2936.05 feet to  
E.S. 2859+70.84 B.C.;

Thence along the arc of a 2291.83 foot radius curve to the left,  
3,345.20 feet to E.S. 2893+16.04 E.C.;

Thence North 82 degrees, 56' 52" East 3,845.90 feet to  
E.S. 2931+61.94 B.C.;

Thence along the arc of a 5729.58 foot radius curve to the left,  
1513.89 feet to E.S. 2946+75.83 E.C.;

Thence North 63 degrees, 19' 00" E, 8724.17 feet  
3034+00.00 P.O.T. (continued on Exhibit D)



Beginning At E.S. 3034+00.00 P.O.T. (Exhibit C)

Thence North 63 degrees, 19' 00" E, 29,674.45 feet to E.S.  
3330+74.45 B.C.;

Thence along the arc of a 2864.79 foot radius curve to the right,  
1200.00 feet to E.S. 3342+74.45 E.C.;

Thence North 87 deg.19'00"East, 1209.93 feet to E.S. 3354+84.38  
B.C.;

Thence along the arc of a 2864.79 foot radius curve to the left,  
1279.17 feet to E.S. 3367+63.55 E.C.;

Thence North 61 degrees 44' 00" East, 4,548.76 feet to  
E.S. 3413+12.37 B.C.;

Thence along the arc of a 11,459.20 foot radius curve to the right,  
458.11 feet to E.S. 3417+70.42 E.C.;

Thence North 64 degrees 01' 26" East, 2,043.83 feet to  
E.S. 3438+14.24 B.C.;

Thence along the arc of a 11,459.20 foot radius curve to the left,  
458.11 feet to E.S. 3442+72.35 E.C.;

Thence North 61 degrees 44' 00" East, 19,932.93 feet to  
E.S. 3642+05.28 B.C.

Thence along the arc of a 2864.79 foot radius curve to the left,  
500.00 feet to E.S. 3647+05.28 E.C.;

Thence North 51 degrees 44' 00" East, 7,279.25 feet to  
E.S. 3719+84.53 B.C.;

Thence along the arc of a 5,729.58 foot radius curve to the left,  
227.50 feet to E.S. 3722+12.03 E.C.

Thence North 49 degrees 27' 30" East, 15,470.50 feet to  
E.S. 3876+82.53 B.C.;

Thence along the arc of a 5,729.58 foot radius curve to the right,  
633.33 feet to E.S. 3883+15.86 E.C.;

Thence North 55 degrees, 47' 30" East, 7,261.88 feet to  
E.S. 3955+77.74 B.C.;

Thence along the arc of a 22,918.30 foot radius curve to the right,  
213.33 feet to E.S. 3957+91.07 B.C.;

Thence North 56 degrees 19' 30" East, 8,829.75 feet to  
E.S. 4046+20.82 B.C.;

Thence along the arc of a 5,729.58 foot radius curve to the right,  
451.67 feet to E.S. 4050+72.49 E.C.;

Thence North 60 degrees 50' 30" East, 4,346.98 to  
E.S. 4094+19.47 B.C.;

Thence along the arc of a 2,864.79 foot radius curve to the left,  
2250.00 feet to E.S. 4116+69.47 E.C.;

Thence North 15 degrees 50' 30" East, 1,781.19 feet to  
E.S. 4134+50.66 which is a point on the Westerly Boundry  
of the Coal Loading Site; from which point a United States  
Coast and Geodetic Survey Triangulation Station known as  
"Coal Mine 1951" bears South 62 degrees 23' 54" East, 10,212.19  
feet; said station situated in Section 10, Township 36 North,  
Range 17 East (unsurveyed), Gila and Salt River Base and  
Meridian Navajo County, Arizona.

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WHEN RECORDED MAIL TO:

RIGHT OF WAY DIV.  
SALT RIVER PROJECT  
P. O. BOX 1980  
PHOENIX, ARIZ. 85001

APPLICATION AND GRANT

OF

RIGHTS-OF-WAY AND EASEMENTS

(25 U. S. C. §323)

NAVAJO PROJECT

*Coconino County*

*LA. Department  
Water & Power*

RECORDED

1 APPLICATION FOR FEDERAL RIGHTS-OF-WAY  
2 AND EASEMENTS

3 The following named corporations (hereinafter collect-  
4 ively referred to as "Applicants") do hereby make application  
5 pursuant to the Act of February 5, 1948, (62 Stat. 17, 18,  
6 25 U.S.C. §323-328), the Act of March 3, 1879 (20 Stat. 394,  
7 5 U.S.C. §485), as amended, and the Acts of July 9, 1832, and  
8 July 27, 1868 (4 Stat. 564, 15 Stat. 228, 25 U.S.C. §2), and  
9 such regulations promulgated thereunder as are applicable,  
10 including 25 CFR §1.2 and Part 161, for rights-of-way and ease-  
11 ments for a period of 50 years, with right of renewal, for and  
12 in connection with the construction, ownership, operation, main-  
13 tenance and removal of an electric generating plant and appur-  
14 tenant equipment and facilities. The proposed form of rights-  
15 of-way and easements is contained in the document attached  
16 hereto entitled "Federal Rights-of-Way and Easements", together  
17 with the map attached thereto and incorporated therein marked  
18 Exhibit "A", the supplemental Exhibits incorporated in such maps  
19 and Exhibit "B" (hereinafter referred to as "§323 Grant"). The  
20 rights-of-way and easements covered by the §323 Grant applied  
21 for are located within Indian lands of the Navajo Indian Reser-  
22 vation in the Counties of Coconino and Navajo, Arizona, in, on,  
23 over, along and across the following areas:

- 1           1. Plant Site with an area of 1,021.03 acres;
- 2           2. Pumping Plant Site with an area of 1.00 acres;
- 3           3. Rail Loading Site with an area of 100.00 acres;
- 4           4. Ash Disposal Area with an area of 765.32 acres;
- 5           5. Pumping Plant Access Road and Water Pipeline to
- 6 Plant Site 100 feet wide with a total length of 3.034 miles
- 7 and a total area of 36.78 acres;
- 8           6. Pumping Plant Access Road to Proposed Indian Ser-
- 9 vice Route N-228, 30 feet wide with a total length of 0.700
- 10 miles and a total area of 2.545 acres;
- 11           7. Access Road from the Plant Site to the Ash Disposal
- 12 Area with a width of 30 feet, and a length of 1.072 miles and
- 13 an area of 3.900 acres;
- 14           8. Power and Communication Lines from the Plant Site
- 15 to the Pumping Plant Site with a width of 25 feet, a length
- 16 of 3.035 miles and an area of 9.20 acres.
- 17           9. Conveyor and Communication Lines from the Rail
- 18 Loading Site to the Peabody Leased lands with a width of 100
- 19 feet, a length of 3.784 miles and an area of 45.87 acres.
- 20           10. Water Pipeline from the Plant Site to Lake Powell
- 21 with a width of 25 feet, a length of 3.116 miles and an
- 22 area of 9.44 acres.
- 23           The Applicants herein are:

EXHIBIT 1  
PLANT SITE

A parcel of land located in Sections 1 and 2 (Unsurveyed), Township 40 North, Range 9 East, and Sections 35 and 36 (Unsurveyed), Township 41 North, Range 9 East, Gila and Salt River Base and Meridian and described as follows:

(Using as a base the East line of Section 33, Township 41 North, Range 9 East, with a true bearing of North  $0^{\circ} 07' 30''$  East).

Beginning at the Southeast corner of said Section 33, Township 41 North Range 9 East; thence South  $68^{\circ} 02' 21''$  East, 5,939.02 feet to the true point of beginning of the parcel of land herein described; thence North  $11^{\circ} 34' 20''$  East, 7,475.00 feet; thence South  $78^{\circ} 25' 40''$  East, 5,950.00 feet; thence South  $11^{\circ} 34' 20''$  West, 7,475.00 feet; thence North  $78^{\circ} 25' 40''$  West, 5,950.00 feet to the true point of beginning. Said described parcel contains 1,021.03 acres.

EXHIBIT 2  
RAIL LOADING SITE

A parcel of land located in Sections 4 and 5 (Unsurveyed), Township 36 North, Range 17 East, and Section 33 (Unsurveyed), Township 37 North, Range 17 East, Gila and Salt River Base and Meridian and described as follows:

Beginning at a U. S. Coast and Geodetic Survey Triangulation Station being a brass disk set in a concrete monument and stamped "Gold Mine 1951"; thence North  $53^{\circ} 38' 40''$  West (True Bearing), 8,277.31 feet to the true point of beginning of the parcel of land herein described; thence South  $62^{\circ} 11'$  West, 2,087.10 feet; thence North  $27^{\circ} 49'$  West, 2,087.10 feet; thence North  $62^{\circ} 11'$  East, 2,087.10 feet; thence South  $27^{\circ} 49'$  East, 2,087.10 feet to the true point of beginning. Said described parcel contains 100.00 acres.

EXHIBIT 3  
PUMPING PLANT SITE

A parcel of land located in Section 15 (Unsurveyed), Township 41 North, Range 9 East, Gila and Salt River Base and Meridian and described as follows: (Using as a base the East line of Section 21, Township 41 North, Range 9 East, with a true bearing of South  $0^{\circ} 07' 30''$  West).

Beginning at the Northeast corner of said Section 21, Township 41 North, Range 9 East, thence South  $7^{\circ} 06' 53''$  East, 1,218.91 feet; thence North  $30^{\circ} 37' 06''$  East, 3,695.78 feet to the true point of beginning of the parcel of land herein described; thence North  $59^{\circ} 22' 54''$  West, 100.00 feet; thence North  $30^{\circ} 37' 06''$  East, 210 feet more or less to the North boundary of the Navajo Indian Reservation, said boundary being identical with the bank of Lake Powell at elevation 3,720 feet mean sea level (U.S. Coast and Geodetic Survey datum); thence Southeasterly along said north boundary, 200 feet more or less; thence South  $30^{\circ} 37' 06''$  West, 225 feet more or less; thence North  $59^{\circ} 22' 54''$  West, 100.00 feet to the true point of beginning. Said described parcel contains 1.00 acres.

EXHIBIT 4  
ASH DISPOSAL AREA

A parcel of land located in Sections 5 and 6 (Unsurveyed), Township 40 North, Range 10 East, and Sections 29, 30, 31, and 32 (Unsurveyed), Township 41 North, Range 10 East, Gila and Salt River Base and Meridian and described as follows:

(Using as a base the East line of Section 33, Township 41 North, Range 9 East, with a true bearing of North  $0^{\circ} 07' 30''$  East).

Beginning at the Southeast corner of said Section 33, Township 41 North Range 9 East; thence North  $70^{\circ} 37' 04''$  East, 18,777.23 feet to the true point of beginning of the parcel of land herein described; thence North  $89^{\circ} 39' 54''$  East, 3,850.00 feet; thence South  $0^{\circ} 20' 06''$  East, 3,750.00 feet; thence North  $89^{\circ} 39' 54''$  East, 1,400.00 feet; thence South  $0^{\circ} 20' 06''$  East, 3,600.00 feet; thence South  $89^{\circ} 39' 54''$  West, 5,250.00 feet; thence North  $0^{\circ} 20' 06''$  West, 7,350.00 feet to the true point of beginning. Said described parcel contains 765.32 acres.

EXHIBIT 5  
POWER AND COMMUNICATION LINES FROM THE PUMPING  
PLANT SITE TO THE PLANT SITE

A right-of-way extending from the Plant Site through or across Sections 15, 22, 26, 27, and 35 (Unsurveyed), Township 41 North, Range 9 East, Gila and Salt River Base and Meridian, to the Easterly boundary of the Pumping Plant Site, said right of-way being 25 feet wide and lying adjacent to and parallel with the Easterly line of the right-of-way described in Exhibit 6 said Exhibit 6 describing the right-of-way for Pumping Plant Access Road and Water Pipeline from the Pumping Plant Site to Plant Site.

EXHIBIT 6  
PUMPING PLANT ACCESS ROAD AND WATER PIPELINE  
FROM PUMPING PLANT SITE TO PLANT SITE

A right-of-way extending from the Plant Site through or across Sections 15, 22, 26, 27, and 35 (Unsurveyed), Township 41 North, Range 9 East, Gila and Salt River Base and Meridian, to the Easterly boundary of the Pumping Plant Site, said right-of-way being 100 feet wide whose centerline is described as follows: (Using as a base the East line of Section 33, Township 41 North, Range 9 East with a true bearing of North  $0^{\circ} 07' 30''$  East).

Beginning at the Southeast corner of said Section 33, Township 41 North, Range 9 East, thence North  $68^{\circ} 54' 12''$  East, 6,940.15 feet to a point common with the Westerly boundary of the Plant Site which is the true point of beginning; thence North  $20^{\circ} 50' 48''$  West, 8,126.51 feet; thence North  $11^{\circ} 32' 00''$  West, 7,893.76 feet to a point common with the Easterly boundary of the Pumping Plant Site.

EXHIBIT 7  
PUMPING PLANT ACCESS ROAD TO INDIAN SERVICE ROUTE N-22B

A right-of-way extending from the centerline of Indian Service Route N-22B through or across Sections 15 and 22 (Unsurveyed), Township 41 North, Range 9 East, Gila and Salt River Base and Meridian, to the Southerly boundary of the Pumping Plant Site, said right-of-way being 30 feet wide whose centerline is described as follows: (Using as a base the East line of Section 21, Township 41 North, Range 9 East with a true bearing of South  $0^{\circ} 07' 30''$  West).

Beginning at the Northeast corner of said Section 21, Township 41 North, Range 9 East, thence South  $7^{\circ} 06' 53''$  East, 1,218.91 feet to a point common with the centerline of Indian Service Route N-22B which is the true point of beginning; thence North  $30^{\circ} 37' 06''$  East, 3,695.78 feet, to a point common with the Southerly boundary of the Pumping Plant Site.

ACCESS ROAD FROM THE PLANT SITE TO THE ASH DISPOSAL AREA

A right-of-way extending from the Plant Site through or across Section 36 (Unsurveyed), Township 41 North, Range 9 East, and Section 31 (Unsurveyed), Township 41 North, Range 10 East, Gila and Salt River Base and Meridian, to the Ash Disposal Area, said right-of-way being 30 feet wide whose centerline is described as follows: (Using as a base the East line of Section 33, Township 41 North, Range 9 East with a true bearing of North  $0^{\circ} 07' 30''$  East).

Exhibit 7 (cont'd)

Beginning at the Southeast corner of said Section 33, Township 41 North, Range 9 East, thence North  $88^{\circ} 54' 49''$  East, 12,085.61 feet to a point common with the Easterly boundary of the Plant Site which is the true point of beginning; thence North  $89^{\circ} 40' 15''$  East, 5,662.72 feet to a point common with the West boundary of the Ash Disposal Area.

EXHIBIT 8  
WATER PIPELINE FROM THE PLANT SITE TO LAKE POWELL

A right-of-way extending from the Plant Site through or across Sections 35, 26, 27, 22, and 15 (Unsurveyed), Township 41 North, Range 9 East, Gila and Salt River Base and Meridian, to the Northerly boundary of the Navajo Indian Reservation, said right of way being 25 feet wide whose centerline is described as follows: (Using as a base the East line of Section 33, Township 41 North, Range 9 East with a true bearing of North  $0^{\circ} 07' 30''$  East).

Beginning at the Southeast corner of said Section 33, Township 41 North, Range 9 East, thence North  $68^{\circ} 54' 12''$  East, 6,940.15 feet to a point common with the Westerly boundary of the Plant Site, thence South  $11^{\circ} 34' 20''$  West along said Westerly boundary of the Plant Site 116.58 feet to the true point of beginning; thence North  $20^{\circ} 50' 48''$  West parallel with and 62.50 feet Westerly of as measured at right angles to the centerline described in Exhibit 6, a distance of 8,230.01 feet; thence North  $11^{\circ} 32' 00''$  West, 5,000.00 feet; thence North  $18^{\circ} 52' 50''$  West 3,220 feet more or less to the North boundary of the Navajo Indian Reservation, said boundary being a contour line the elevation of which is 3,720 mean sea level (United States Coast and Geodetic Survey datum).

EXHIBIT 9

CONVEYOR AND COMMUNICATION LINES FROM THE RAIL  
LOADING SITE TO THE PEABODY LEASED LANDS

A right-of-way extending from the Rail Loading Site through or across Sections 4, 3, 2, 11, and 12 (Unsurveyed), Township 36 North, Range 17 East, Gila and Salt River Base and Meridian, to the Peabody Leased lands, said right-of-way being 100 feet wide whose centerline is described as follows:

Beginning at a U. S. Coast and Geodetic Survey Triangulation Station being a brass disk set in a concrete monument and stamped "Gold Mine 1951"; thence North  $53^{\circ} 38' 40''$  West (True Bearing), 8,277.31 feet to a point common with the most Easterly corner of the Rail Loading Site which is the true point of beginning; thence South  $67^{\circ} 37' 20''$  East, 19,979.61 feet to a point common with the West line of Section 7 (Unsurveyed), Township 36 North, Range 18 East, said line being identical with the West line of the Peabody Leased lands.

REVISED EXHIBIT 9  
CONVEYOR AND COMMUNICATION LINES FROM THE RAIL  
LOADING SITE TO THE PEABODY LEASED LANDS

A right-of-way extending from the Rail Loading Site through or across Sections 4, 3, 2, 1 and 12 (unsurveyed), all being in Township 36 North, Range 17 East and Section 18, Township 36 North, Range 18 East, Gila and Salt River Base and Meridian, to the Peabody Leased Lands, said right-of-way being 100 feet wide and extending on each side of center line to join leased lands with center line of said right-of-way described as follows:

Beginning at a point being 4,524.61 feet north and 8,139.20 feet west of U.S. Coast and Geodetic Survey Triangulation Station "Coal Mine 1951" (a brass disk set in a concrete monument);

Thence, from point of beginning South 72° 32' 24" East for a distance of 10,749.29 feet to a point;

Thence, North 73° 44' 02" East for 5,125.33 feet to a point;

Thence, South 49° 52' 13" East for a distance of 6,304.06 feet to a point on the west property line of Peabody Leased Lands;

Thence, continuing on same bearing of South 49° 52' 13" East crossing Peabody Leased Land for a distance of 4,392.27 feet to a point in a south line of Peabody Leased Lands;

Thence, leaving leased lands and crossing lands of this survey on a bearing of South 49° 52' 13" East for a distance 2,814.22 feet to a point in a west property line of Peabody Leased Lands and being the end of this survey.