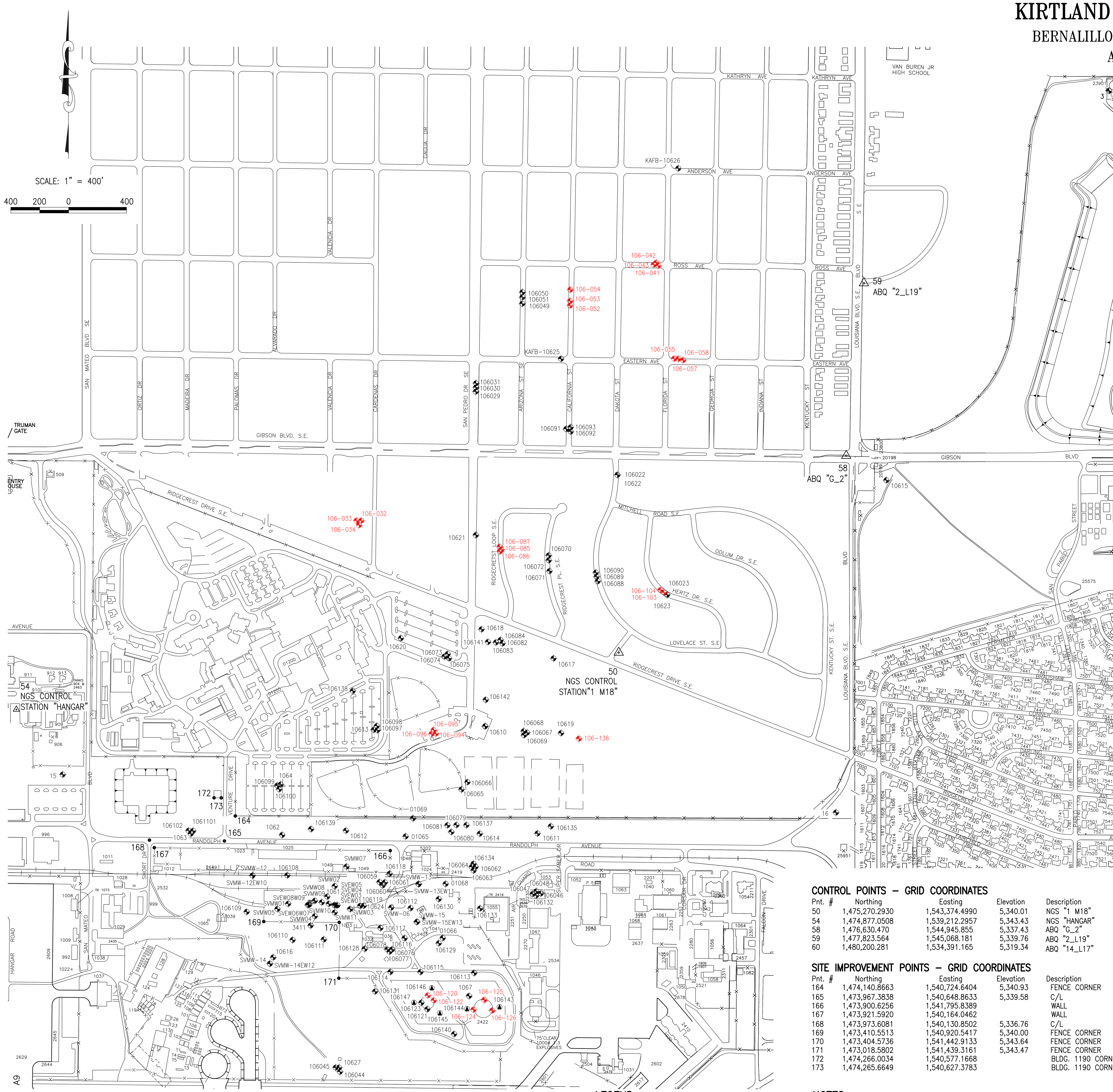
SURVEY OF

MONITORING WELLS & OTHER POINTS
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE

BERNALILLO COUNTY, NEW MEXICO

AUGUST 2011



LEGEND

- CONTROL POINT
- PREVIOUSLY SURVEYED MONITORING WELLS
- PREVIOUSLY SURVEYED SSB GROUND LOCATIONS
- SITE IMPROVEMENT POINTS
- NEWLY SURVEYED MONITORING WELLS (AUGUST 8, 2011)

GRID COORDINATES

POINTS SURVEYED 8/8/2011

Pnt.#	Northing	Easting	Elevation	Description
1479	1,472,902.4571	1,542,054.2269	5,343.38	106–120–GROUND
1480	1,472,901.0070	1,542,054.6250	5,343.56	106–120–CONCRETE
1481	1,472,900.9760	1,542,054.7067	5,343.56	106–120–CASING
1482	1,472,900.6288	1,542,054.8583	5,343.10	106–120–PVC
1483	1,472,900.3032	1,542,054.9807	5,343.08	106–120–PVC–25
1484	1,472,900.4850	1,542,055.0754	5,343.08	106–120–PVC–50
1485	1,472,900.7351	1,542,054.9648	5,343.10	106–120–PVC–150
1486	1,472,900.5145	1,542,054.6327	5,343.10	106–120–PVC–250
1487	1,472,900.2759	1,542,054.7953	5,343.09	106–120–PVC–350
1488	1,472,868.5702	1,542,096.1610	5,343.86	106–122–GROUND
1489	1,472,867.1141	1,542,096.0714	5,343.93	106–122–CONCRETE
1490	1,472,866.9890	1,542,096.0839	5,343.93	106–122–CASING
1491	1,472,866.5316	1,542,096.0854	5,343.57	106–122–PVC
1492	1,472,866.3266	1,542,096.3309	5,343.57	106–122–PVC–25
1493	1,472,866.6324	1,542,096.2673	5,343.54	106–122–PVC–50
1494	1,472,866.6887	1,542,095.9881	5,343.54	106–122–PVC–150
1495	1,472,866.4003	1,542,095.8788	5,343.57	106–122–PVC–250
1496	1,472,866.1916	1,542,096.0984	5,343.57	106–122–PVC–350
1497	1,472,804.5406	1,542,370.1704	5,345.58	106–124–GROUND
1498	1,472,803.0009	1,542,370.2410	5,345.84	106–124–CONCRETE
1499	1,472,802.8994	1,542,370.2774	5,345.81	106–124–CASING
1500	1,472,802.4953	1,542,370.2417	5,345.48	106–124–PVC
1501	1,472,802.5827	1,542,370.4238	5,345.48	106–124–PVC–25
1502	1,472,802.6007	1,542,370.1123	5,345.49	106–124–PVC–50
1503	1,472,802.3363	1,542,369.9802	5,345.46	106–124–PVC–150
1504	1,472,802.1413	1,542,370.2236	5,345.45	106–124–PVC–250
1505	1,472,802.2746	1,542,370.4597	5,345.44	106–124–PVC–350
1506	1,472,871.8333	1,542,444.6054	5,345.60	106–125–GROUND
1507	1,472,870.0521	1,542,444.8295	5,345.95	106–125–CONCRETE
1508	1,472,870.0038	1,542,444.8254	5,345.95	106–125–CASING
1509	1,472,869.6140	1,542,444.8039	5,345.52	106–125–PVC
1510	1,472,869.6763	1,542,445.0158	5,345.52	106–125–PVC–25
1511	1,472,869.7456	1,542,444.7284	5,345.49	106–125–PVC–50
1512	1,472,869.5163	1,542,444.5649	5,345.50	106–125–PVC–150
1513	1,472,869.2538	1,542,444.7608	5,345.50	106–125–PVC–250
1514	1,472,869.3376	1,542,445.0336	5,345.51	106–125–PVC–350
1515	1,472,798.5062	1,542,499.4309	5,345.81	106–126–GROUND
1516	1,472,796.8946	1,542,499.7476	5,345.95	106–126–CONCRETE
1517	1,472,796.7997	1,542,499.7548	5,345.95	106–126–CASING
1518	1,472,796.3988	1,542,499.7291	5,345.55	106–126–PVC
1519	1,472,796.1837	1,542,499.9780	5,345.57	106–126–PVC–25
1520	1,472,796.4689	1,542,499.9502	5,345.51	106–126–PVC–50
1521	1,472,796.5567	1,542,499.6606	5,345.51	106–126–PVC–150
1522	1,472,796.3200	1,542,499.4888	5,345.54	106–126–PVC–250
1523	1,472,796.0171	1,542,499.6747	5,345.57	106–126–PVC–350
1524	1,476,184.8343	1,541,595.8334	5,317.53	106–032–ASPHALT
1525	1,476,183.2478	1,541,595.8647	5,317.59	106–032–CONCRETE
1526	1,476,183.2135	1,541,595.8561	5,317.60	106–032–CASING
1527	1,476,182.7120	1,541,595.8350	5,316.91	106–032–PVC
1528	1,476,184.0482	1,541,562.2993	5,317.75	106–033–ASPHALT
1529	1,476,182.8721	1,541,562.3585	5,317.78	106–033–CONCRETE
1530	1,476,182.8447	1,541,562.3531	5,317.84	106–033–CASING
1531	1,476,182.3450	1,541,562.3977	5,317.26	106–033–PVC
1532	1,476,153.3303	1,541,580.0884	5,318.58	106–034–ASPHALT
1533	1,476,152.0749	1,541,579.9817	5,318.64	106–034–CONCRETE
1534	1,476,152.0151	1,541,580.0232	5,318.64	106–034–CASING
1535	1,476,151.5026	1,541,579.9912	5,317.95	106–034–PVC
1536	1,474,712.2910	1,542,109.8739	5,345.14	106–094–ASPHALT
1537	1,474,711.2662	1,542,110.3016	5,345.18	106–094–CONCRETE
1538	1,474,711.2339	1,542,110.3627	5,345.18	106–094–CASING
1539	1,474,710.6862	1,542,110.5290	5,344.47	106–094–PVC
1540	1,474,736.7467	1,542,095.1177	5,344.64	106–095–ASPHALT
1541	1,474,735.6528	1,542,095.4300	5,344.75	106–095–CONCRETE
1542	1,474,735.6057	1,542,095.4237	5,344.76	106–095–CASING
1543	1,474,735.0282	1,542,095.6468	5,344.07	106–095–PVC
1544	1,474,709.8976	1,542,080.1787	5,345.28	106–096–ASPHALT
1545	1,474,708.5850	1,542,080.5226	5,345.41	106–096–CONCRETE
1546	1,474,708.5104	1,542,080.5353	5,345.40	106–096–CASING
1547	1,474,707.9946	1,542,080.7101	5,344.74	106–096–PVC

Pnt.#	Northing	Easting	Elevation	Description
1548	1,474,677.8609	1,543,099.4050	5,351.68	106–136–GROUND
1549	1,474,676.3408	1,543,098.9114	5,351.80	106–136–CONCRETE
1550	1,474,676.2736	1,543,098.9519	5,351.83	106–136–CASING
1551	1,474,675.9235	1,543,098.7478	5,351.27	106–136–PVC
1552	1,474,675.7064	1,543,098.9474	5,351.16	106–136–PVC–25
1553	1,474,676.0202	1,543,098.8941	5,351.13	106–136–PVC–50
1554	1,474,676.0400	1,543,098.5929	5,351.12	106–136–PVC–150
1555	1,474,675.7885	1,543,098.4495	5,351.13	106–136–PVC–250
1556	1,474,675.5391	1,543,098.6817	5,351.16	106–136–PVC–350
1557	1,475,983.7075	1,542,564.1970	5,317.29	106–085–ASPHALT
1558	1,475,983.0639	1,542,564.2691	5,317.33	106–085–CONCRETE
1559	1,475,983.0229	1,542,564.2813	5,317.34	106–085–CASING
1560	1,475,982.4652	1,542,564.1946	5,316.50	106–085–PVC
1561	1,475,970.5592	1,542,551.8649	5,317.73	106–086–ASPHALT
1562	1,475,969.5152	1,542,551.8326	5,317.73	106–086–CONCRETE
1563	1,475,969.4631	1,542,551.8282	5,317.76	106–086–CASING
1564	1,475,968.8859	1,542,551.8284	5,316.95	106–086–PVC
1565	1,476,003.0870	1,542,551.1995	5,316.99	106–087–ASPHALT
1566	1,476,002.3053	1,542,551.2267	5,317.01	106–087–CONCRETE
1567	1,476,002.2674	1,542,551.2062	5,317.00	106–087–CASING
1568	1,476,001.7106	1,542,551.2146	5,316.52	106–087–PVC
1569	1,475,686.4312	1,543,685.9813	5,328.54	106–103–ASPHALT
1570	1,475,685.6652	1,543,685.4341	5,328.59	106–103–CONCRETE
1571	1,475,685.6196	1,543,685.4591	5,328.59	106–103–CASING
1572	1,475,685.2605	1,543,685.6078	5,327.40	106–103–PVC
1573	1,475,704.1312	1,543,662.3069	5,328.09	106–104–ASPHALT
1574	1,475,703.3768	1,543,662.4404	5,328.14	106–104–CONCRETE
1575	1,475,703.3230	1,543,662.4428	5,328.14	106–104–CASING
1576	1,475,702.7640	1,543,662.6627	5,327.26	106–104–PVC
1577	1,477,303.0955	1,543,757.0722	5,325.14	106–055–ASPHALT
1578	1,477,302.3827	1,543,757.0076	5,325.17	106–055–CONCRETE
1579	1,477,302.3376	1,543,756.9967	5,325.16	106–055–CASING
1580	1,477,301.7630	1,543,757.0442	5,324.71	106–055–PVC
1581	1,477,302.0429	1,543,786.2689	5,325.47	106–057–ASPHALT
1582	1,477,301.4064	1,543,786.1737	5,325.51	106–057–CONCRETE
1583	1,477,301.3498	1,543,786.1915	5,325.53	106–057–CASING
1584	1,477,300.7669	1,543,786.1345	5,325.13	106–057–PVC
1585	1,477,292.7428	1,543,818.3712	5,326.09	106–058–ASPHALT
1586	1,477,291.9558	1,543,818.3986	5,326.12	106–058–CONCRETE
1587	1,477,291.9159	1,543,818.3807	5,326.10	106–058–CASING
1588	1,477,291.3498	1,543,818.3451	5,325.51	106–058–PVC
1589	1,477,945.8191	1,543,647.1570	5,324.40	106–041–ASPHALT
1590	1,477,945.0487	1,543,647.1378	5,324.43	106–041–CONCRETE
1591	1,477,945.0207	1,543,647.1355	5,324.44	106–041–CASING
1592	1,477,944.4562	1,543,647.0829	5,323.53	106–041–PVC
1593	1,477,966.3347	1,543,633.9024	5,324.08	KAF106–042–ASPHALT
1594	1,477,965.6358	1,543,633.9561	5,324.12	KAF106–042–CONCRETE
1595	1,477,965.5702	1,543,633.9478	5,324.14	KAF106–042–CASING
1596	1,477,965.0426	1,543,634.0056	5,323.42	KAF106–042–PVC
1597	1,477,952.8222	1,543,616.2013	5,324.37	106–043–ASPHALT
1598	1,477,952.0585	1,543,616.1015	5,324.35	106–043–CONCRETE
1599	1,477,951.9914	1,543,616.1075	5,324.38	106–043–CASING
1600	1,477,951.4617	1,543,616.1753	5,323.43	106–043–PVC
1601	1,477,670.4848	1,543,037.6292	5,318.93	106–052–ASPHALT
1602	1,477,669.5749	1,543,037.6135	5,318.94	106–052–CONCRETE
1603	1,477,669.5140	1,543,037.5902	5,318.94	106–052–CASING
1604	1,477,669.0294	1,543,037.5002	5,318.20	106–052–PVC
1605	1,477,701.6410	1,543,038.3459	5,318.74	106–053–ASPHALT
1606	1,477,700.8578	1,543,038.2129	5,318.73	106–053–CONCRETE
1607	1,477,700.7972	1,543,038.2311	5,318.71	106–053–CASING
1608	1,477,700.2063	1,543,038.3000	5,317.88	106–053–PVC
1609	1,477,779.7788	1,543,039.6330	5,318.46	106–054–ASPHALT
1610	1,477,778.9800	1,543,039.6060	5,318.43	106–054–CONCRETE
1611	1,477,778.9512	1,543,039.6294	5,318.43	106–054–CASING
1612	1,477,778.3903	1,543,039.5294	5,317.94	106–054–PVC

CONTROL POINTS – GRID COORDINATES

Pnt. #	Northing	Easting	Elevation	Description
50	1,475,270.2930	1,543,374.4990	5,340.01	NGS "1 M18"
54	1,474,877.0508	1,539,212.2957	5,343.43	NGS "HANGAR"
58	1,476,630.470	1,544,945.855	5,337.43	ABQ "G_2"
59	1,477,823.564	1,545,068.181	5,339.76	ABQ "2_L19"
60	1,480,200.281	1,534,391.165	5,319.34	ABQ "14_L17"

SITE IMPROVEMENT POINTS – GRID COORDINATES

Pnt. #	Northing	Easting	Elevation	Description
164	1,474,140.8663	1,540,724.6404	5,340.93	FENCE CORNER
165	1,473,967.3838	1,540,648.8633	5,339.58	C/L
166	1,473,900.6256	1,541,795.8389		WALL
167	1,473,921.5920	1,540,164.0462		WALL
168	1,473,973.6081	1,540,130.8502	5,336.76	C/L
169	1,473,410.5513	1,540,920.5417	5,340.00	FENCE CORNER
170	1,473,404.5736	1,541,442.9133	5,343.64	FENCE CORNER
171	1,473,018.5802	1,541,439.3161	5,343.47	FENCE CORNER
172	1,474,266.0034	1,540,577.1668		BLDG. 1190 CORNER
173	1,474,265.6649	1,540,627.3783		BLDG. 1190 CORNER

NOTES

1. GRID COORDINATES ARE NAD 83 DATUM VALUES BASED ON NEW MEXICO STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE. BASIS OF COORDINATES ARE PUBLISHED VALUES OF NATIONAL GEODETIC SURVEY (NGS) CONTROL STATION "HANGAR" AND BEARING N84°36'13"E BETWEEN NGS CONTROL STATION "HANGAR" AND NGS CONTROL STATION "1 M18". PROJECT CONVERSION FACTORS ARE GRID–TO–GROUND=1.000343197744 AND GROUND–TO–GRID=0.99965692.
2. ELEVATIONS ARE NAVD 88 DATUM VALUES BASED ON NGS CONTROL STATION "HANGAR", ELEVATION = 5,343.43 FEET. GPS/RTK METHODS AND GEOID99 MODEL WERE USED TO DETERMINE ELEVATIONS OF ALL SURVEYED POINTS.
3. DRAWING COORDINATES ARE GRID.
4. POINTS SHOWN IN RED COLOR WERE ADDED TO THE DRAWING ON AUGUST 8, 2011.

PROFESSIONAL SURVEYOR STATE OF NEW MEXICO NO. 10464 VLADIMIR JIRIK

VLADIMIR JIRIK, NMPS NO. 10464 — AUGUST 10, 2011 — DATE

Plat & Survey By:
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