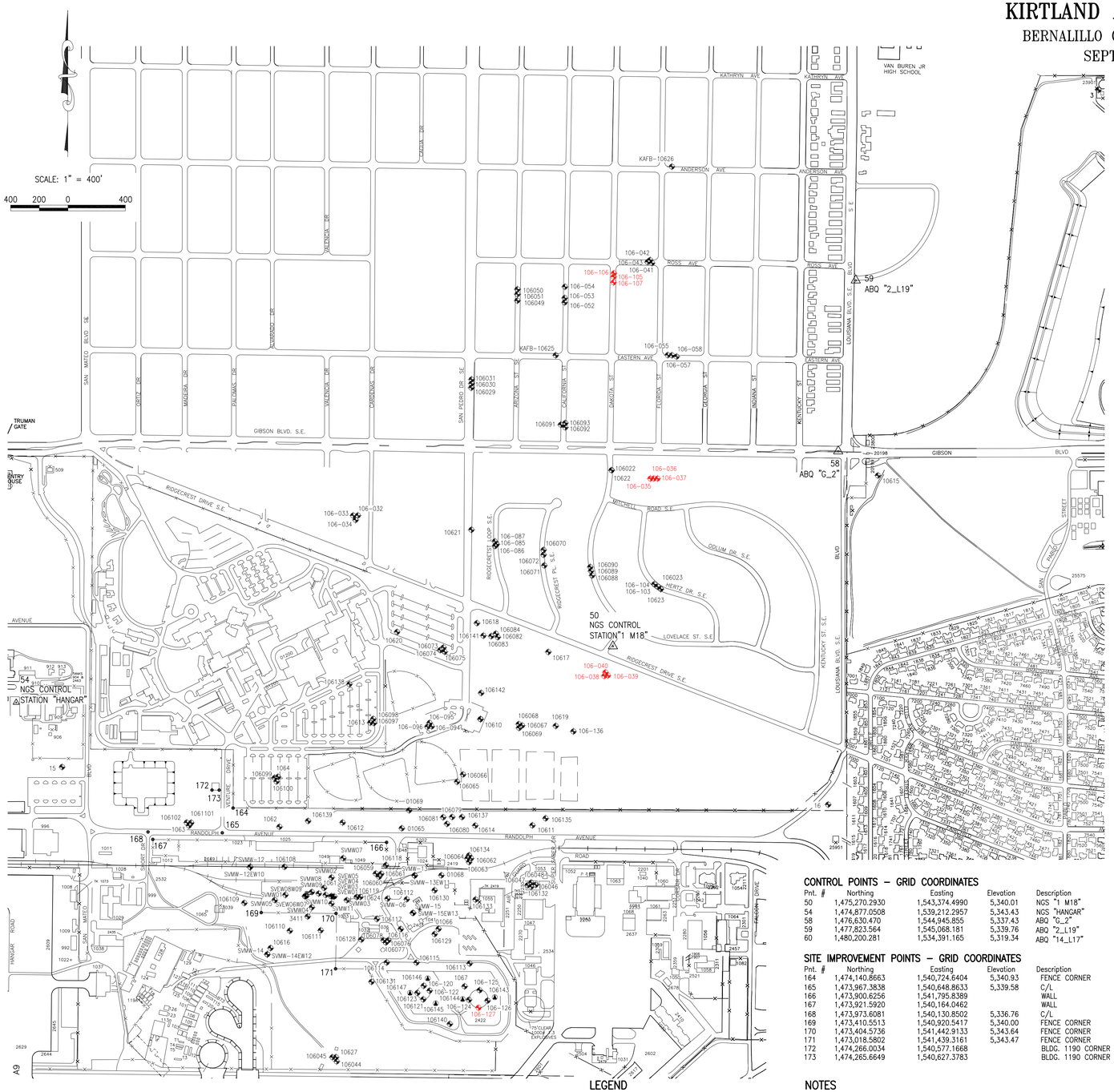
SURVEY OF

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

BERNALILLO COUNTY, NEW MEXICO

SEPTEMBER 2011



GRID COORDINATES

POINTS SURVEYED 8/8/2011

Pnt.#	Northing	Easting	Elevation	Description
1613	1,472,749.1870	1,542,436.5874	5,345.93	106-127-GROUND
1614	1,472,747.6753	1,542,436.8105	5,346.21	106-127-CONCRETE
1615	1,472,747.4175	1,542,436.9009	5,346.18	106-127-CASING
1616	1,472,747.0650	1,542,436.8469	5,345.76	106-127-PVC
1617	1,472,747.0655	1,542,437.0320	5,345.78	106-127-25
1618	1,472,747.2127	1,542,436.7701	5,345.77	106-127-50
1619	1,472,747.0266	1,542,436.5379	5,345.77	106-127-150
1620	1,472,746.7062	1,542,436.6911	5,345.73	106-127-250
1621	1,472,746.7486	1,542,436.9917	5,345.74	106-127-350
1622	1,476,441.8691	1,543,635.9351	5,321.46	106-035-GROUND
1623	1,476,440.6062	1,543,635.8653	5,321.66	106-035-CONCRETE
1624	1,476,440.5496	1,543,635.8572	5,321.64	106-035-RIM
1625	1,476,440.0064	1,543,635.8268	5,320.69	106-035-PVC
1626	1,476,442.7352	1,543,660.3344	5,321.87	106-036-GROUND
1627	1,476,441.1352	1,543,660.1261	5,321.99	106-036-CONCRETE
1628	1,476,441.0843	1,543,660.1504	5,321.98	106-036-RIM
1629	1,476,440.4952	1,543,659.9874	5,321.23	106-036-PVC
1630	1,476,442.2778	1,543,685.6244	5,321.95	106-037-GROUND
1631	1,476,440.7862	1,543,685.5674	5,322.20	106-037-CONCRETE
1632	1,476,440.7028	1,543,685.5308	5,322.16	106-037-RIM
1633	1,476,440.1489	1,543,685.3619	5,321.58	106-037-PVC
1634	1,477,874.4851	1,543,381.4137	5,321.87	106-106-ASPHALT
1635	1,477,873.5988	1,543,381.4759	5,321.90	106-106-CONCRETE
1636	1,477,873.4485	1,543,381.4495	5,321.89	106-106-RIM
1637	1,477,873.0489	1,543,381.4166	5,321.12	106-106-PVC
1638	1,477,850.0500	1,543,379.5838	5,321.95	106-105-ASPHALT
1639	1,477,848.6189	1,543,379.5103	5,322.00	106-105-CONCRETE
1640	1,477,848.6033	1,543,379.4913	5,322.01	106-105-RIM
1641	1,477,848.0226	1,543,379.3645	5,321.40	106-105-PVC
1642	1,477,810.1915	1,543,378.7357	5,322.14	106-107-ASPHALT
1643	1,477,809.4079	1,543,378.6786	5,322.20	106-107-CONCRETE
1644	1,477,809.3492	1,543,378.7060	5,322.21	106-107-RIM
1645	1,477,808.7785	1,543,378.6088	5,321.68	106-107-PVC
1646	1,475,064.8257	1,543,315.2064	5,348.38	106-038-GROUND
1647	1,475,062.8544	1,543,314.3879	5,348.67	106-038-CONCRETE
1648	1,475,062.6262	1,543,314.1430	5,351.65	106-038-RIM
1649	1,475,062.4971	1,543,314.1998	5,351.18	106-038-PVC
1650	1,475,067.9126	1,543,340.5496	5,348.30	106-039-GROUND
1651	1,475,066.4473	1,543,339.8955	5,348.41	106-039-CONC
1652	1,475,066.1842	1,543,339.7582	5,351.34	106-039-RIM
1653	1,475,066.1224	1,543,339.6935	5,350.93	106-039-PVC
1654	1,475,089.5854	1,543,322.9699	5,347.20	106-040-GROUND
1655	1,475,088.0356	1,543,322.5117	5,347.48	106-040-CONCRETE
1656	1,475,087.8866	1,543,322.3595	5,350.29	106-040-RIM
1657	1,475,087.7776	1,543,322.3280	5,349.88	106-040-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

LEGEND

- CONTROL POINT
- PREVIOUSLY SURVEYED MONITORING WELLS
- PREVIOUSLY SURVEYED SSB GROUND LOCATIONS
- SITE IMPROVEMENT POINTS
- NEWLY SURVEYED MONITORING WELLS (SEPTEMBER 16, 2011)

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 SEPTEMBER 19, 2011.

PROFESSIONAL SURVEYOR
STATE OF NEW MEXICO
NO. 4078
FRED SANCHEZ

FRED SANCHEZ, NMPS NO. 4078

SEPTEMBER 19, 2011
DATE

SHEET 1 OF 1

26033MW-2-9-19-2011

Plat & Survey By:
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