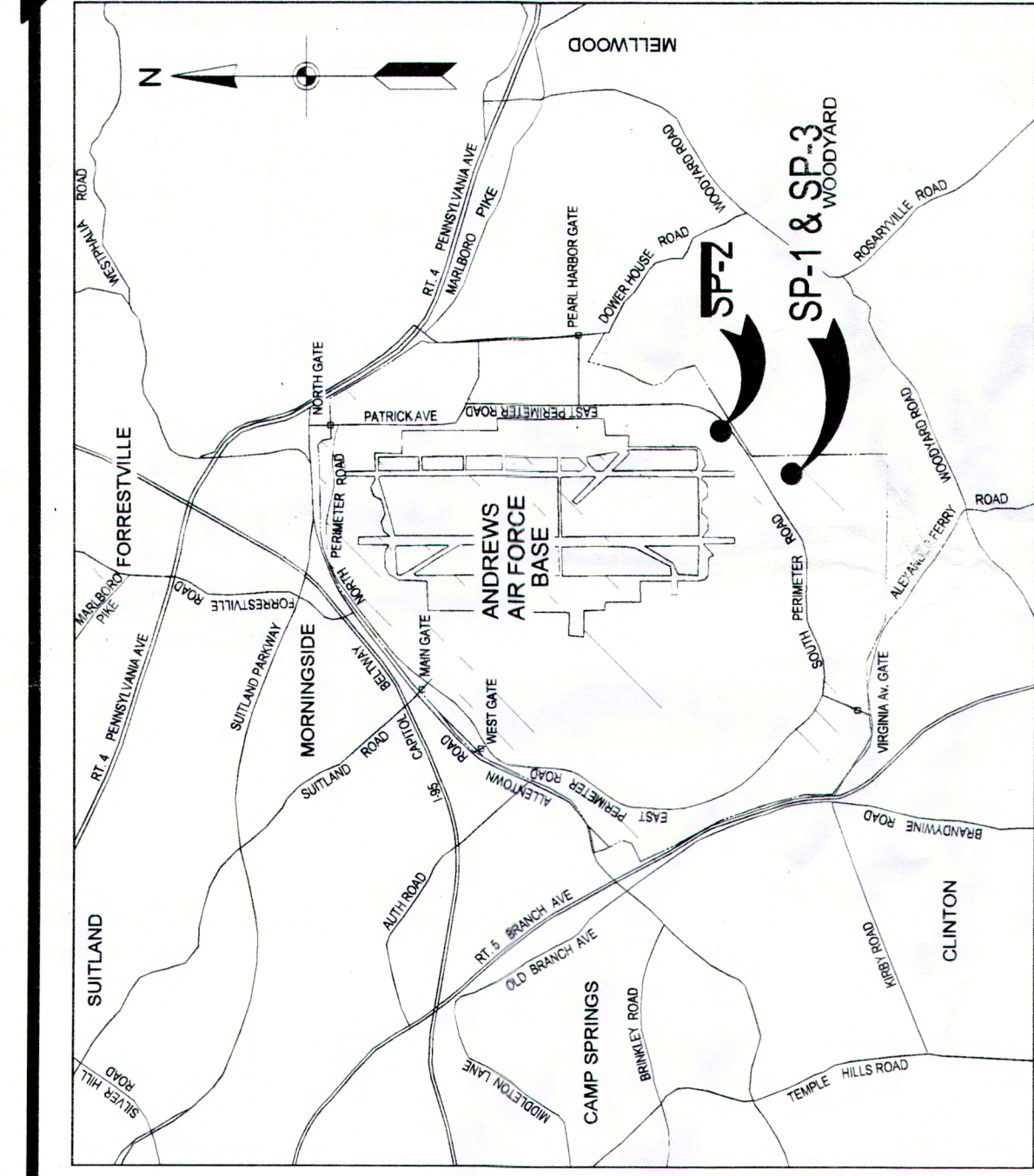


Owner's Copy  
2nd Plan Set

# JOINT BASE ANDREWS



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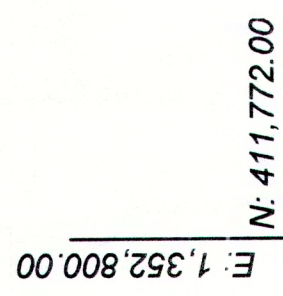
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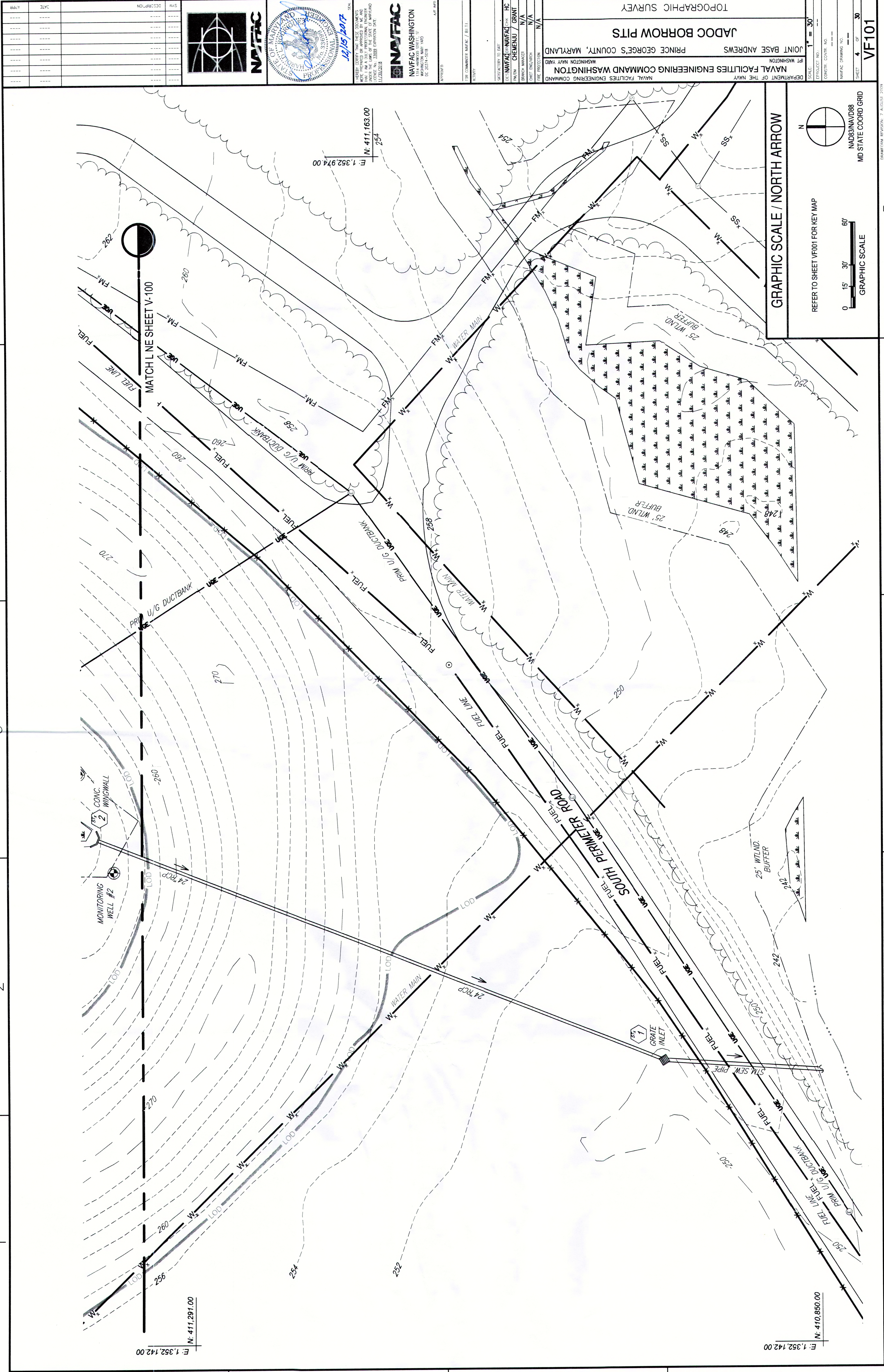




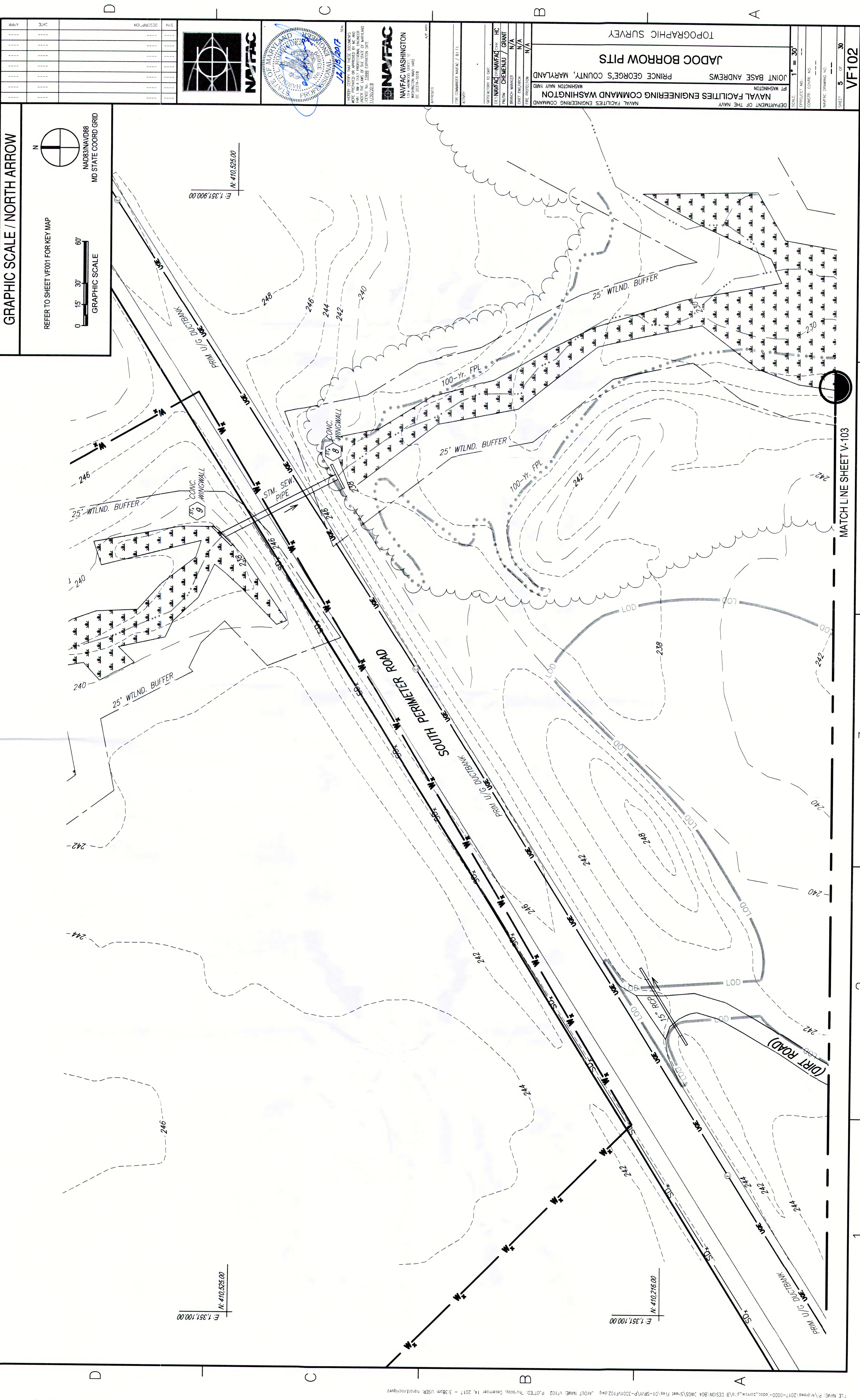












GRAPHIC SCALE / NORTH ARROW

REFER TO SHEET VF001 FOR KEY MAP

0 15' 30' 60'

GRAPHIC SCALE

NAD83/NAVD88  
MD STATE COORD GRID

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND WASHINGTON NAVY YARD		JADOC BORROW PITS PRINCE GEORGE'S COUNTY, MARYLAND		TOPOGRAPHIC SURVEY	
JOINT BASE ANDREWS FT WASHINGTON		PROJECT NO. ---		SCALE: 1" = 30'	
CONTRACT NO. ---		CONTRACTOR NO. ---		CONTRACTOR NAME ---	
NAVFAC DRAWING NO. ---		NAVFAC PROJECT NO. ---		SHEET 5 OF 30	
VF102					

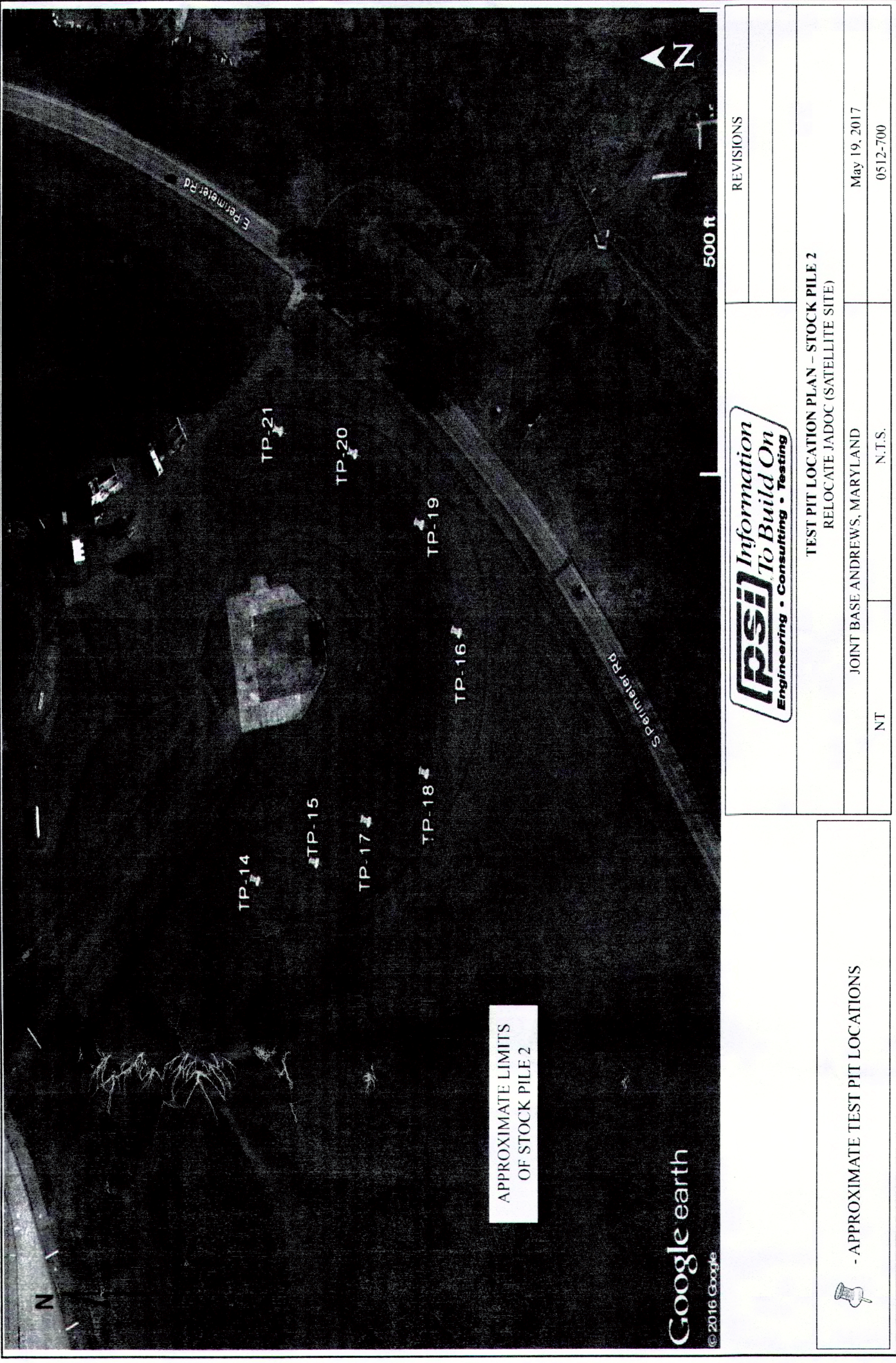
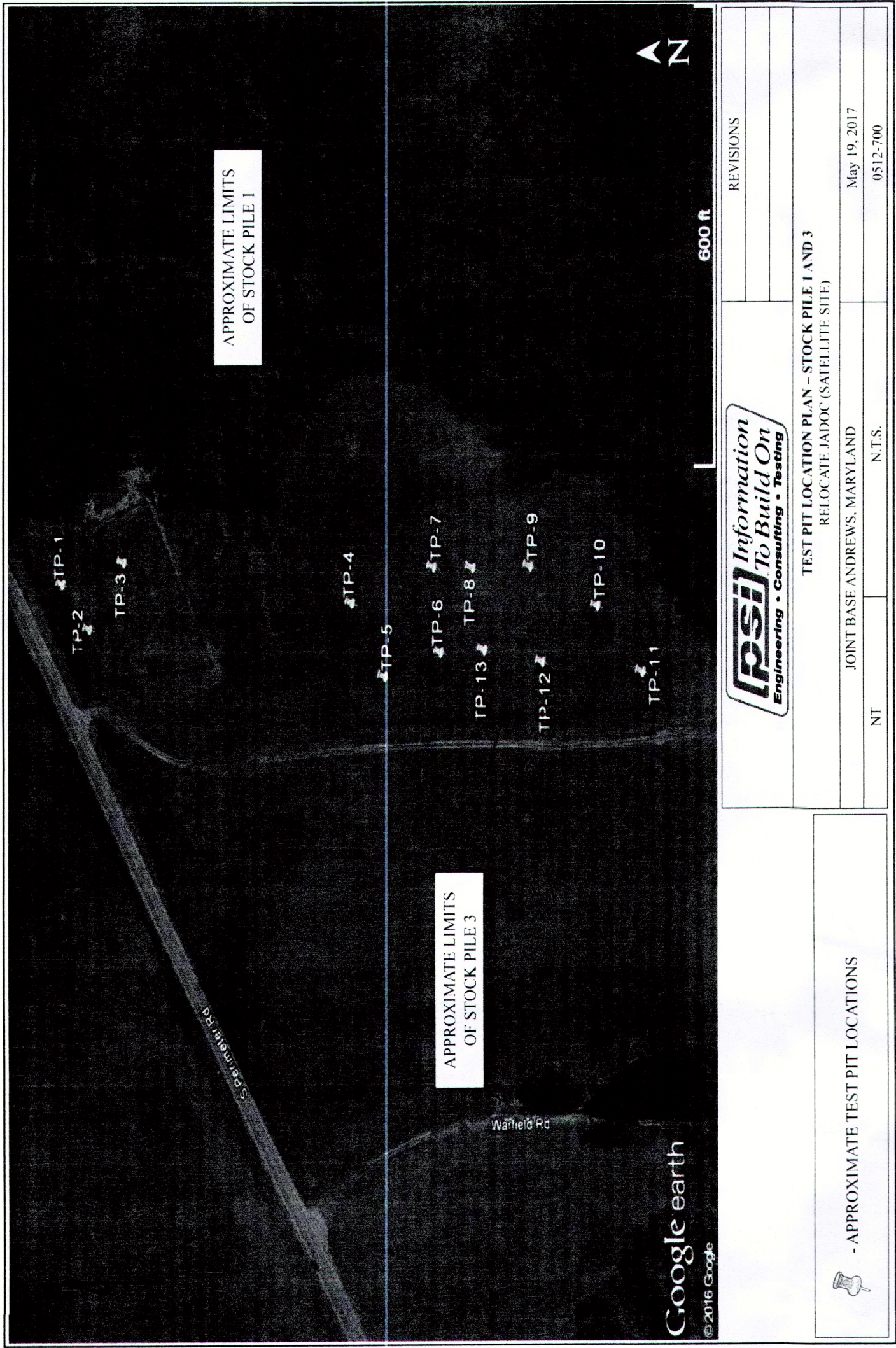












Discussion

Based on our observation of the excavated test pit samples and laboratory testing, the onsite material at these stockpile areas can be categorized into cohesive fill and granular fill and the characteristics of these fill materials are described below.

**Granular Fill:** Granular fill was encountered at most of the test pit locations and was entirely found in Stockpile Areas 1 and 2 and predominantly within the southern portion of Stockpile Area 3. Based on laboratory testing, these granular fill soils were classified as clayey sand with and without gravel (SC), silty clayey sand with and without gravel (SC-SM), silty sand with gravel (SM) and poorly graded gravel with silt and sand (GP-GM). The liquid limit values of these granular soils varied from being non-plastic to 30 and plasticity index values varied from being non-plastic to 14. The maximum dry density (based on modified proctor tests, ASTM D1557) of these granular soils ranged from 130.2 to 141.5 pounds per cubic foot (pcf).

**Cohesive Fill:** Cohesive fill was predominantly encountered within the northern portion of the Stockpile Area 3, particularly near test pit locations TP-4 through TP-9 and TP-13. Based on laboratory testing, these cohesive fill soils were classified as sandy lean clay with and without gravel (CL). The liquid limit values of these cohesive soils varied from 28 to 32 and plasticity index values varied from 9 to 13. The maximum dry density (based on modified proctor tests, ASTM D1557) of these granular soils ranged from 119.0 to 131.5 pounds per cubic foot (pcf).

The results of the laboratory tests are summarized below:

Stockpile 1:

Test Pit #	Soil Classification	Atterbergs Limits		Proctor Test Results		Fines %
		Liquid Limit	Plasticity Index	Maximum Dry Density, lb/ft <sup>3</sup>	Optimum Moisture Content, %	
TP-1	Silty SAND	19	3	136.7	6.6	35
TP-2	Clayey SAND	30	12	131.0	8.0	33.8
TP-3	Silty Clayey SAND	22	7	132.5	8.1	40

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Stockpile 2:

Test Pit #	Soil Classification	Atterbergs Limits		Proctor test Results		Fines %
		Liquid Limit	Plasticity Index	Maximum Dry Density, lb/ft <sup>3</sup>	Optimum Moisture Content, %	
TP-4	Sandy CLAY	30	10	131.5	9.5	50.4
TP-5	Sandy CLAY	31	13	125.9	9.9	63
TP-6	Sandy CLAY	28	9	121.7	11.8	68.5
TP-7	Sandy CLAY	33	11	122.5	12.5	60.9
TP-8	Sandy CLAY	29	11	123.6	11.8	52.5
TP-9	Sandy CLAY	32	10	119.0	12.9	66.1
TP-10	Silty SAND	21	4	141.5	4.5	13.0
TP-11	Silty Clayey SAND	24	7	136.5	6.5	27.6
TP-12	Gravel	NP	NP	140.0	3.5	9.0
TP-13	Sandy CLAY	28	9	121.8	13.1	60.0

Stockpile 3:

Test Pit #	Soil Classification	Atterbergs Limits		Proctor test Results		Fines %
		Liquid Limit	Plasticity Index	Maximum Dry Density, lb/ft <sup>3</sup>	Optimum Moisture Content, %	
TP-14	Clayey SAND	25	11	130.2	8.8	42
TP-15	Clayey SAND	28	13	136.1	7.0	33
TP-16	Clayey SAND	22	6	139.9	6.1	32
TP-17	Clayey SAND	29	14	135.9	6.6	36
TP-18	Clayey SAND	27	10	132.5	7.6	24
TP-19	Uncontrolled FILL Material with glass pieces – cannot be used as fill for the site.					
TP-20	Clayey SAND	24	10	138.5	5.6	23
TP-21	Clayey SAND	22	9	138.2	6.2	39

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GENERAL SHEET NOTES

1. GEOTECHNICAL INVESTIGATION PREPARED AND DEVELOPED BY PROFESSIONAL SERVICE INDUSTRIES INC. (PSI) ON MAY 20, 2017.

NAVAL FACILITIES ENGINEERING COMMAND WASHINGTON WASHINGTON NAVY YARD		JOINT BASE ANDREWS PRINCE GEORGE'S COUNTY, MARYLAND		JADOC BORROW PITS		GEOTECHNICAL BORING LOGS	
DEPARTMENT OF THE NAVY		NAVAL FACILITIES ENGINEERING COMMAND		NAVAL FACILITIES ENGINEERING COMMAND		NAVAL FACILITIES ENGINEERING COMMAND	
SCALE: AS SHOWN		PROJECT NO. ---		CONTRACT NO. ---		CONTRACT NO. ---	
SHEET 8 OF 30		BB200		BB200		BB200	







