Mappa Inc

1956 Richardson Hwy
North Pole, AK 99705
(907) 488-1266

ASTM D6938 In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)

Project: FTW484 Access Control Lighting & Generators
Fort Wainwright , AK
Client: Eklutna Construction & Maintenance

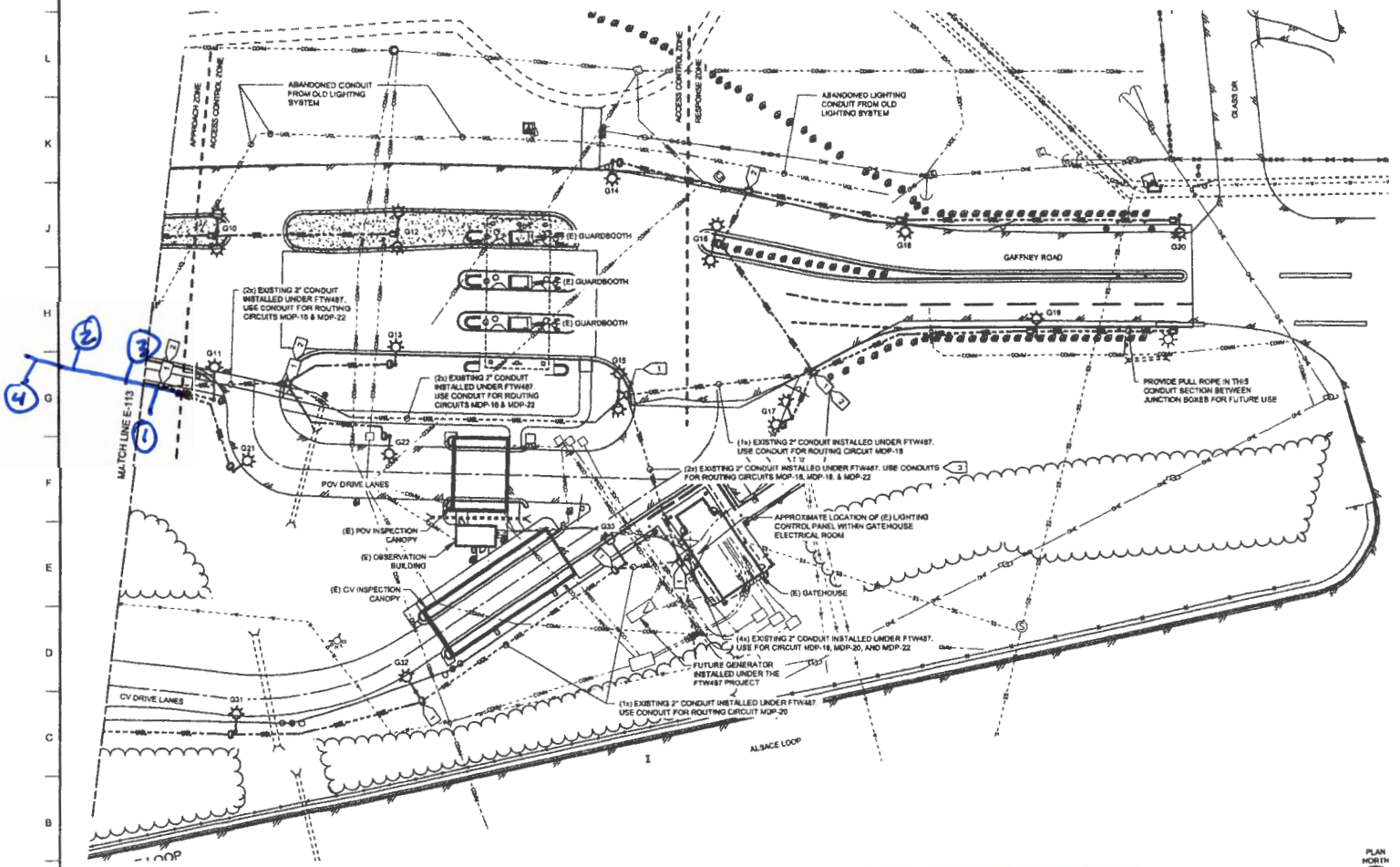
Project #: 2026-001
Date: May 27, 2026
Area Tested: Conduit Trench

Material / Source:
D-1/ GNI Metro 25 142.6

Gauge: Instrotek 3500 **Ser: #** 1748
Operator: John Trush

Test #	Soil Type	Test Depth(in)	Lift Elev	Location	Wet Density	% Moist.	Dry Density	Max Density	Percent Density	Required Density
1	D-1	6"	2	Conduit Trench Backfill (see map)	143.3	5.2	136.2	142.6	95.5%	95%
2	D-1	6"	2	Conduit Trench Backfill (see map)	143.9	6.0	135.8	142.6	95.2%	95%
3	D-1	6"	3	Conduit Trench Backfill (see map)	142.2	4.5	136.1	142.6	95.4%	95%
4	D-1	6"	3	Conduit Trench Backfill (see map)	143.0	4.0	137.5	142.6	96.4%	95%

Approved By: *Stefan Mack* Stefan Mack PE, Lab Manager



GENERAL SHEET NOTES

A. NO BELOW GRADE UTILITY LINES (LIGHTING, POWER, NOR COMMUNICATIONS) HAVE BEEN LOCATED ANYWHERE ALONG THE PROJECT CORRIDOR. ALL EXISTING LINES SHOWN ARE APPROXIMATE ONLY. EXISTING TO REMAIN BELOW GRADE ITEMS SHALL BE PROTECTED IN PLACE DURING WORK
   (A) WHERE NEW ITEMS ARE INSTALLED AT OR NEAR EXISTING TO REMAIN ITEMS, THE CONTRACTOR SHALL FIELD LOCATE OR CONTACT RESPECTIVE UTILITY ENTITIES TO LOCATE THE EXISTING ITEMS
   (B) WHERE NEW ITEMS CONFLICT WITH EXISTING/T TO REMAIN INFRASTRUCTURE, ADJUST LOCATIONS OF NEW ITEMS / INFRASTRUCTURE OR OTHERWISE COORDINATE WITH CONTRACTING OFFICER FOR FURTHER DIRECTION.

B. NEW UNDERGROUND LIGHTING CIRCUITS "UGL" SHALL BE A MINIMUM (3c) #8 AWG CABLE WITH #8 GND, ROUTED WITHIN A MINIMUM 2" CONDUIT. ONE CONDUCTOR IN THE CABLE WILL BE "SPARE". LIGHTING CIRCUIT SHALL ROUTE BETWEEN JUNCTION BOXES AND ADJACENT LIGHT POLE BASES TO THE FUSED WYE-TAP QUICK DISCONNECT. PROVIDE (2) #10 AWG, #10 EGC FROM QUICK DISCONNECT TO FIXTURE(S) AT TOP OF THE POLE. SEE SHEET E-502.

C. THE LIGHTING CIRCUIT SHALL REMAIN UNSPLICED WITHIN JUNCTION BOXES, UNLESS SPECIFICALLY ANNOTATED WITH A SPECIFIC SHEET NOTE #2.

D. NEW CONDUITS WITHIN 8-FEET OF THE ROADWAY SHALL BE RMC.

E. FLAGPOLE LIGHTING CIRCUIT SHALL BE A MINIMUM (3c) #8 AWG CABLE WITH #10 GND, ROUTED WITHIN A MINIMUM 2" CONDUIT.

F. THE "ABANDONED LIGHTING CONDUIT" LINES ARE APPROXIMATE ONLY AND LABELED WITHOUT HAVING ACTUAL LOCATES. ADDITIONAL CONDUITS MAY BE ABANDONED IF THEY ARE NOT IN CONFLICT WITH THE NEW SYSTEM AND SOME CONDUITS LABELED AS ABANDONED MAY NEED TO BE PARTIALLY DEMOLISHED. THE CONTRACTOR SHALL REDLINE AND DOCUMENT ABANDONED LIGHTING CONDUITS.

SPECIFIC SHEET NOTES

1. JUNCTION BOX AND UNDERGROUND CONDUITS WERE INSTALLED UNDER FTW487 FOR LIGHTING SYSTEMS. PROTECT AND USE FOR THIS PROJECT.
2. PROVIDE RESIN BASED, SUBMERSIBLE RATED, SPLICE KIT IN JUNCTION BOX FOR ROUTING CIRCUIT MULTIPLE DIRECTIONS. SEE SHEET E-502.
3. CIRCUITS MDP-18 & MDP-22 MAY SHARE 2" CONDUIT UNDER THIS SECTION OF ACCESS CONTROL DUE TO LIMITED QUANTITY OF CONDUITS.

US Army Corps of Engineers ®

ISSUE DATE: 100% DESIGN
SOLICITATION NO: W911KB-25-R-A004
CONTRACT NO: W911KB-26-C-A008
DESIGNED BY: M. WAGNER
DRAWN BY: M. WAGNER
CHECKED BY: J. PUTNAM
SUBMITTED BY: J. PUTNAM
SCALE: 1" = 30'

US ARMY CORPS OF ENGINEERS ALASKA DISTRICT

DESIGN ALASKA, INC. 3705 ARCTIC BLVD. SUITE 1515 ANCHORAGE, AK 99503 ADC0311

EKLUTNA CONST & ENGINEERING, LLC 2485 E 23rd CIR, SUITE D WASILLA, AK 99654

FORT WAINWRIGHT, ALASKA
ACCESS CONTROL LIGHTING AND GENERATORS
FTW484

GAFFNEY SITE - RENOVATION PLAN 2

SHEET ID
E-114

STATE OF ALASKA — 49TH — Matthew W. Wagner — SE 20114? — REGISTERED PROFESSIONAL ENGINEER

A1 GAFFNEY SITE - RENOVATION PLAN 2
SCALE: 1" = 30'-0"

EKLUTNA/ FTW 484
05/27/26 JP
Conduit Trench BF:11 Lift 2+3