1. **Description of requirement.** This requirement is for 1 ground penetrating radar (GPR). The ground penetrating radar (GPR) shall easily pair with external Bluetooth-enabled GPS, including a built-in GPS pole adapter, Map Mode capable of tracing the operator steps and gain a bird's-eye view of the survey. It shall place APWA color-coded marks on 2D data and geo-referenced map simultaneously, collect and create 3D scans. A Rugged Ethernet cable is required for communication between tablet and Antenna where no Wi-Fi is allowed. GPR and tablet shall be rated IP65 to withstand rain, dust and extreme temperatures from -20°C (-4°F) to 40 °C (104°F).

Controller Panasonic G2 Tablet

Display 10.1" WUXGA 1920 x 1200 Capacitive gloved multi touch + digitizer
Processor Intel® Core™ i5-10310U vPro™ processor
Battery / Operation Time 10.8V, 6300mAh / 9.5 hours
Environmental IP65
Durability MIL-STD-810H

System

Frequency 350 MHz
RF Noise Reduction Method Patented trasmit Signal Dithering
Minimum Range 12 ft / 6 m (media dependent)
Maximum Range at least 35 ft / 10 m (media dependent)
Communication Interface Wi-Fi and/or Ethernet
LineTrac AC Current Detection Yes (optional)
Languages English, French, Spanish, Portuguese, Chinese
GPS Internal (Tablet) and External (Bluetooth)
GPR - Battery / Battery Life Lithium-Ion / 6 hour
Operating Temperature -20° C to 40° C (-4° F to 104° F)
Storage Temperature -40° C to 60° C (-40° F to 140° F)
Weight With Tablet & Battery 37 lbs (16.8 kg)
Dimensions (folded) 22 x 19.25 x 12.5 in (56 x 49 x 32 cm)
Environmental IP65
Durability 3 Axis 30G shock tested, Vibration tested (20-2,000 Hz)

Software

Real-time Filters Band Filter
Display Modes Linescan Mode: Data displayed with option to show LineTrac overlay

Map Mode: 2D data displayed in split screen view concurrently with GIS location map
3D: Data displayed in user-defined 3-dimensional grid area
Focus Mode: Filtered data display for closely-spaced targets.

N.5 software licenses are required

2. Place of Delivery/Performance/Acceptance/FOB Point: Destination:
   The Government requires direct delivery to AVIANO AIR BASE, 33081 ITALY

   The Ground Penetrating Radar user training for n. 10 attendees shall be conducted in person.