

RAPORTI TOPOGRAFIK

OBJEKTI: “Krijimi i parkut rekreativ në Lagjen e “Re”” – ZONA A



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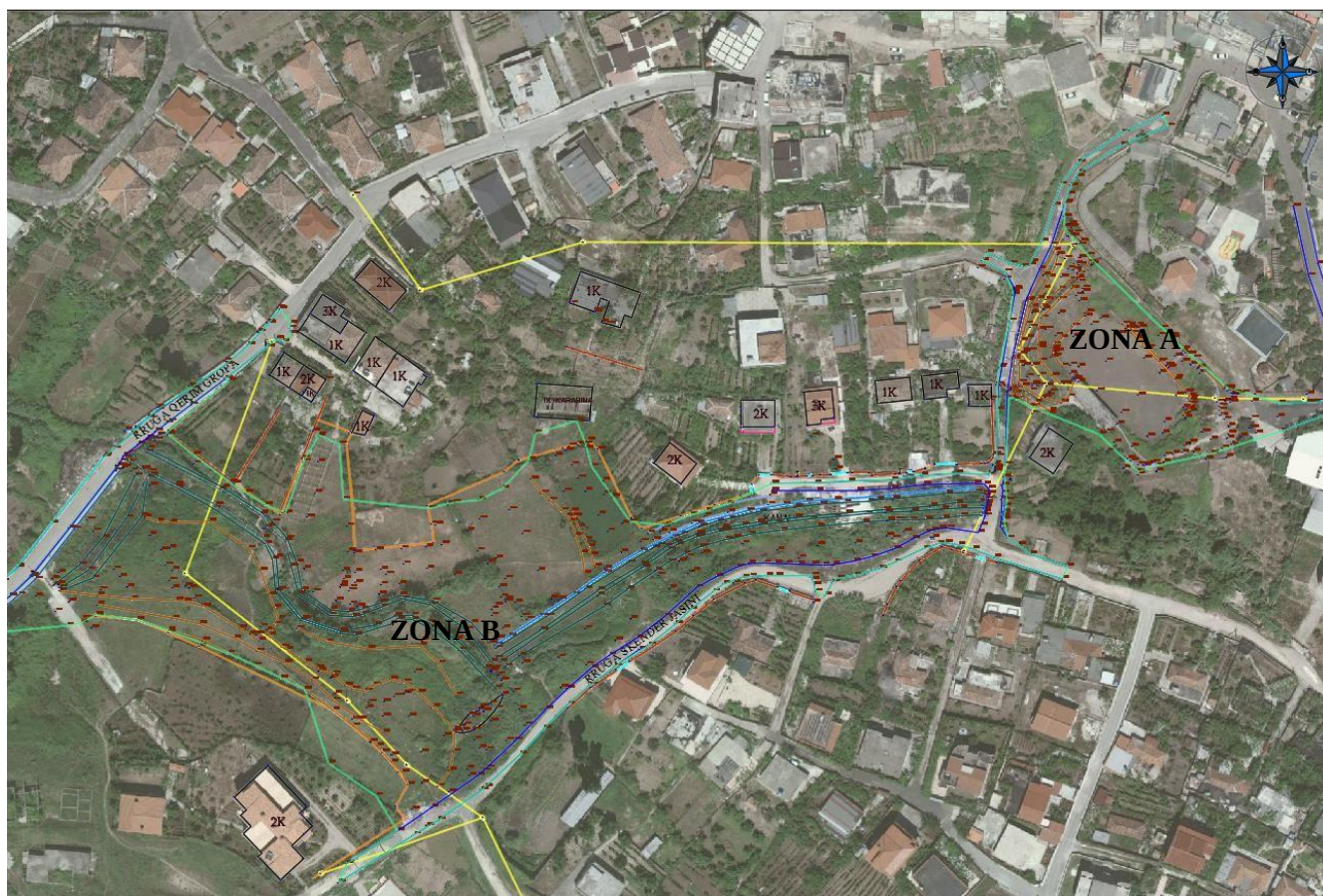


Fig.1 Rilevimi topografik

Shoqeria “ZENIT&CO” sh.p.k kreu matjet dhe rilevimin ne terren per krijimin e parkut rekreativ, ne Lagjen e Re, Bashkia Patos. Zonat ne te cilen u kryen matjet per parkun rekreativ ndodhen ne Patos, ne Lagjen e “Re”. Zona A kufizohet nga segmentet e rrugeve “Sali Alushi” dhe rruga e “Vreshtit” dhe Zona B kufizohet nga rruget “Qerim Gropa” dhe e “Vreshtit”.

Procesi i rilevimit eshte realizuar duke perdorur instrumenta te teknologjise dhe sakesise se larte ne fushen e gjeodezise, si Stacioni Total Leica TCRP 1203 Plus si dhe marres satelitor (Rover) Trimble R10.

1. Stacioni Total Leica TCRP 1203 plus me këto specifikime:



Stacioni Total Leica TCRP1203plus

- Saktësia e matjes së drejtimeve Horizontale/Vertikale 3",
- Saktësia e matjes së largësive pa prizëm 2.0 mm + 2 ppm,
- Mundësi matje e largësive pa prizëm 1000 m.

2. Marres satelitor (Rover) Trimble R10.me këto specifikime:



Specifikimet teknike te marresit satelitor GNSS Trimble R10:

PERFORMANCE SPECIFICATIONS		
MEASUREMENTS		
	Measuring points sooner and faster with Trimble HD-GNSS technology Increased measurement productivity and traceability with Trimble SurePoint electronic level bubble and tilt compensation Worldwide centimeter-level positioning using Trimble CenterPoint RTX satellite or internet delivered correction services Reduced downtime due to loss of radio signal or cellular connectivity with Trimble xFill technology Advanced Trimble Custom Survey GNSS chips with 672 channels Future-proof your investment with Trimble 360 GNSS tracking Satellite signals tracked simultaneously	
		GPS: L1C/A, L2C, L2E, L5 GLONASS: L1C/A, L1P, L2C/A, L2P, L3 SBAS: L1C/A, L5 (For SBAS satellites that support L5) Galileo: E1, E5A, E5B, E5 AltBOC, E6 ¹ BeiDou: B1, B2, B3 QZSS: L1C/A, L1-SAIF, L1C, L2C, L5 NavIC (IRNSS): L5
	CenterPoint RTX, OmniSTAR [®] HP, XP, G2, VBS correction services WAAS, EGNOS, GAGAN, MSAS Reliable tracking in challenging environments with advanced Low Noise Amplifier (LNA) with 50 dB signal gain to reduce signal tracking effects caused by high power out-of-band transmitters Additional indium filtering above 1616 MHz allows antenna to be used as close as 20 m of Iridium transmitter Additional Japanese filtering below 1510 MHz allows antenna to be used as close as 100 m of Japanese LTE cell tower Digital Signal Processor (DSP) techniques to detect and recover from spoofed GNSS signals Advanced Receiver Autonomous Integrity Monitoring (RAIM) algorithm to detect and reject problem satellite measurements to improve position quality Improved protection from erroneous ephemeris data	
	Positioning Rates	1 Hz, 2 Hz, 5 Hz, 10 Hz, and 20 Hz
POSITIONING PERFORMANCE ²		
CODE DIFFERENTIAL GNSS POSITIONING		
	Horizontal	0.25 m + 1 ppm RMS
	Vertical	0.50 m + 1 ppm RMS
	SBAS differential positioning accuracy ³	typically <5 m 3DRMS
STATIC GNSS SURVEYING		
High-Precision Static		
	Horizontal	3 mm + 0.1 ppm RMS
	Vertical	3.5 mm + 0.4 ppm RMS
Static and Fast Static		
	Horizontal	3 mm + 0.5 ppm RMS
	Vertical	5 mm + 0.5 ppm RMS
REAL TIME KINEMATIC SURVEYING		
Single Baseline <30 km		
	Horizontal	8 mm + 1 ppm RMS
	Vertical	15 mm + 1 ppm RMS
Network RTK ⁴		
	Horizontal	8 mm + 0.5 ppm RMS
	Vertical	15 mm + 0.5 ppm RMS
RTK start-up time for specified precisions ⁵		2 to 8 seconds
TRIMBLE RTX [®] TECHNOLOGY (SATELLITE AND CELLULAR/INTERNET (IP))		
CenterPoint RTX ⁶		
	Horizontal	2 cm RMS
	Vertical	5 cm RMS
	RTX convergence time for specified precisions - Worldwide	< 15 min
	RTX QuickStart convergence time for specified precisions	< 1 min
	RTX convergence time for specified precisions in select regions (Trimble RTX Fast Regions)	< 1 min
TRIMBLE XFILL ⁷		
	Horizontal	RTK ⁸ + 10 mm/minute RMS
	Vertical	RTK ⁸ + 20 mm/minute RMS

HARDWARE

PHYSICAL

Dimensions (WxH)

11.9 cm x13.6cm(4.6in x5.4in)

Weight

1.12l<g(2.49 lb) with internal battery . internal radio withUHFantenna.
3.57l<g(7.86lb) emsaboveplus rangepole. controller & bracket

Temperature⁹

Operating

- 40 ° C to +65 ° C (- 40 ° f to +149 ° F)

Storage

- 40 ° C to +75 ° C (-40 ° f to +167 ° f)

Humidity

100% condensing

Ingress protection

IP67 dustproof. protected from temporary immersion to depth of 1m (3.28ft)

Shock and vibration (Tested and meets the following environmental standards)

Shock

Non-operating: Designed to survive 2 m (6.6 ft) pole drop onto concrete

Vibration

Operating: to 40 G, 10 msec. sawtooth
MIL-STD-810f, fig. 514, SC-I

ELECTRICAL

Power 11 to 24 VDC external power input with over-voltage protection on Port1 and Port2 (7-pin Lemo)

Rechargeable, removable 7.4 V, 3.7 Ah Lithium-ion smart battery with LED status indicators

Power on screen option is 4.2 W in RTK rover mode with internal radio I/O

Operating times on internal battery

450 MHz receive only option

6.5 hours

450 MHz receive / transmit option (0.5 W)

6.0 hours

450 MHz receive / transmit option (2.0 W)

5.5 hours

Cellular receive option

6.5 hours

COMMUNICATIONS AND DATA STORAGE

Serial

3-wire serial (7-pin Lemo)

USB v2.0

Supports data download and high speed communications

Radiomodem

Fully integrated, sealed 450 MHz wide band receiver/transmitter with frequency range of 403 MHz to 473 MHz. support of Trimble, Pacific Crest, and SATeL radio protocols:

Transmit power

2W

Range

3-5 km typical / 10 km optimal

Cellular

Integrated, 3.5 G modem, HSDPA 7.2 Mbps (download), GPRS multi-slot class 12, EDGE multi-slot class 12, Penta-band UMTS/HSDPA (WCDMA/FDD) 800/850/900/1900/2100 MHz. Quad-band EGSM 850 / 900 / 1800 / 1900 MHz. GSM CDMA 3GPP LTE

Bluetooth

fully integrated, fully sealed 2.4 GHz communications port (Bluetooth)

Wi-Fi

802.11 b, g, access point and client mode. WPA/WPA2/WEPA/128 encryption

USB v2.0

Supports data download and high speed communications

External communication devices for corrections supported on

Serial, USB, TCP/IP and Bluetooth ports

Data storage

6 GB internal memory: over ten years of raw observables (approx. 1.4 MB / day), based on recording every 15 seconds from an average of 14 satellites

Data format

CMR+, CMRx, RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1, RTCM 3.2 input and output
24 NM EA outputs, GSO, RT17 and RT27 outputs

WEBUI

Offers simple configuration, operation, status, and data transfer

Accessible via Wi-Fi, Serial, USB, and Bluetooth

SUPPORTED CONTROLLERS

Trimble TSC7, Trimble TSC3, Trimble TSC3, Trimble Slate, Trimble CU, Trimble Tablet, rugged PC, Android and iOS devices
running supported apps

CERTIFICATIONS

FCC Part 15 (Class B device), 24.32; CE Mark; RCM; PTCRB; BT

Ne terren u realizua rilevimi i dy zonave A dhe B te projektit per krijimin e parkut rekreativ, ku u maten te gjitha ndertimet e zones, rruget, kanalet, rrjeti elektrik, skarpatat dhe thyerjet e terrenit si dhe cdo element tjetër topografik.

Ne vijim jane pasqyruar foto te kryera ne terren ne zonat A dhe B.

ZONA A



ZONA B





PROJEKTUES
ZENIT&CO SHPK
Ing. Lulzim Vrap