



**Finance Committee
Meeting Agenda
October 10, 2023
4:30 PM
City Council Chambers**

City Council Members:

Gayatri Agnew	Ward 1, Position 2
Cindy Acree	Ward 2, Position 1
Bill Burckart	Ward 3, Position 2

***If the public would like to attend virtually, please click on the following link:**
<https://us02web.zoom.us/j/89139307844?pwd=ZWMxNVhRby9RVElhd1pyZzluVmdHZz09>

Call to Order/Roll Call

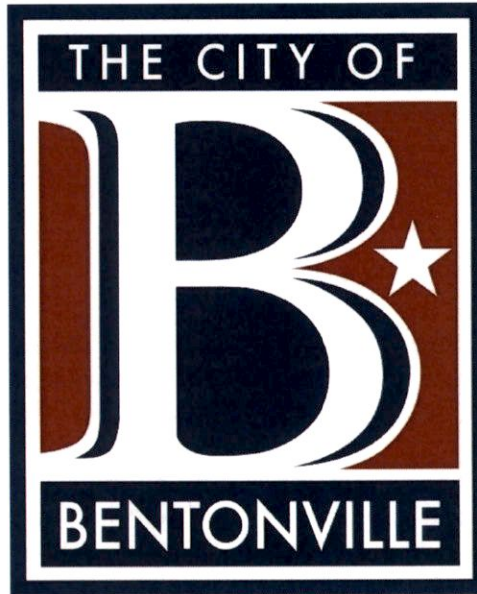
Items For Discussion

- 1. Ozark Regional Transit Discussion**
- 2. Investment Policy Discussion**
- 3. Impact Fees Discussion**

City Council Items To Be Considered

- | | |
|--|-------------------|
| 1. Section III Item 2 on City Council Agenda -
Budget Adjustment to Authorize the Purchase
of a Trimble Reference Station | Resolution |
|--|-------------------|

Resolution to adjust the 2023 Budget for Account 47510, authorizing the Electric Department to purchase an upgraded Trimble Reference Station in the amount of \$23,142.00 (plus applicable taxes), due to outdated software components. There is no increase associated with this Budget Adjustment. Approved by Utility Board 5-0. A Budget Adjustment is needed to correct Vendor information within the line item.



CITY OF BENTONVILLE

Cash Management and Investment Policy

Adopted: June 22, 2021

CASH MANAGEMENT & INVESTMENT POLICY

I. Purpose

The purpose of this policy is twofold:

1. To establish a framework from which the City may work to maintain effective cash management practices that are in compliance with federal, state and local requirements, City policy and industry standards. These cash management practices will ensure that:
 - Funds are deposited promptly in order for the City to have the ability to remit payment of bills and payroll in a timely manner.
 - Accurate accounting of cash inflows and outflows is maintained.
 - Idle cash is invested in order to maximize revenues.
 - The level of funds necessary to meet short-term needs is monitored.
2. To provide guidelines for the investment of City of Bentonville operating and capital improvement funds to preserve the safety of principal, to maintain adequate cash flow, and to maximize interest earnings.

II. Scope

This policy applies to all monies held by the City that are needed for the short-term payment of obligations and those invested for future needs. This policy does not apply to the investment of employee retirement or pension funds, escrow funds held by the City of Bentonville, or proceeds from the issuance of bonds.

The City may consolidate cash balances from all operating funds to maximize investment earnings and to increase efficiencies with regard to investment pricing, safekeeping, and administration. Investment income will be allocated to the various funds based on their respective participation and in accordance with generally accepted accounting principles.

Investment expenses will be deducted from investment earnings and be reported in the annual reports referenced in section VII.

III. Deposits

The City's Accounting Department personnel will ensure that all monies are deposited, properly accounted for and reconciled in a timely and accurate manner.

- All monies from the City's different departments are held in the City's main checking accounts unless otherwise directed by federal or state guidelines or as required for special projects. For financial reporting purposes, the monies are reported in the appropriate fund.

- All received monies are reported to the general ledger on a daily basis by fund, payment type and source.
- Monies required to be reimbursed to a payee (Ex: Occupancy Deposits) are appropriately reported in the City's financial statements.
- All City departments that have the ability to accept monies should do so in accordance with the City's cash handling procedures which is contained in the Appendix A of this Policy.
- All deposit discrepancies will be investigated.
- The City will ensure that proper segregation of duties exists and the same employee who accepts payments is not the same employee who completes the daily deposit or reconciles bank statements.

IV. Receivables

All amounts due to the City are reviewed on an ongoing basis by the Accounting Department and other City departments to ensure that:

- The City is collecting payments in a timely manner.
- Work is not being performed for individuals or businesses who have a history of past due accounts or bad debts with the City.

Methods to collect past due receivables and insufficient checks shall be explored by the City.

V. Disbursements

The City's Accounting Department personnel will ensure that all monies are expended in a timely and accurate manner and in accordance with federal, state and local law, city policy and industry standards.

- At a minimum, the City makes cash disbursements on a weekly basis. Cash disbursements may be made on a more frequent basis if deemed necessary. All cash disbursements must be approved by the Finance Director or designee before disbursement occurs.
 - Payroll disbursements are made bi-weekly.
- All disbursements made must be allowable and will be properly recorded by fund, department and account.
- Two (2) signatories are required on all checking accounts. These signatures are kept electronically in a secure location that is only accessible by authorized personnel.

- The City will ensure that proper segregation of duties exists and that the same employee who writes checks is not the same employee who signs checks or reconciles the bank statements.
- The City will make every effort to take advantage of all applicable discounts.

VI. Investments

A. Primary Objectives

The primary objectives, in priority order, of investment activities shall be safety, liquidity, and yield.

1. *Safety*

Safety of principal is the foremost objective of the City of Bentonville's investment program. Investments shall be undertaken in a manner that seeks to ensure the preservation of capital in the overall portfolio. The objective will be to mitigate credit risk and interest rate risk.

2. *Liquidity*

The City of Bentonville's investment portfolio shall remain sufficiently liquid to meet all operating requirements that may be reasonably anticipated. This is accomplished by structuring the portfolio so that securities mature concurrent with cash needs to meet anticipated demands. Furthermore, since all possible cash demands cannot be anticipated, the portfolio should consist largely of securities with active secondary or resale markets. A portion of the portfolio also may be placed in money market mutual funds or local government investment pools which offer same-day liquidity for short-term funds.

3. *Yield*

The investment portfolio shall be designed with the objective of attaining a market rate of return throughout budgetary and economic cycles, taking into account the investment risk constraints and liquidity needs. Return on investment is of secondary importance compared to the safety and liquidity objectives described above. The core of investments is limited to relatively low risk securities in anticipation of earning a fair return relative to the risk being assumed. The City shall maximize interest yields while ensuring that the maturity dates coincide with projected expenditure requirements.

B. Governing Authority

The investment program shall be operated in conformance with the Arkansas State Statutes and the City Of Bentonville Code of Ordinances. The City of Bentonville Finance and Accounting Departments are responsible for investing the unexpended cash in the City Treasury.

The authority governing investments for municipal governments is set forth in Arkansas State Code Title 19, Chapter 1, Subchapter 5 – *Investment of Public Funds as amended by Act 619 of 2011*. Further provisions for cities with real property assessed valuation in excess of 300 million dollars is set forth in Arkansas State Statute §19-1-505. Investment of City funds will be made only in compliance with Arkansas statutes.

C. Standards of Care

1. Prudence

The standard of prudence to be used by investment officials shall be the “prudent person” standard and shall be applied in the context of managing an overall portfolio. Investment officials (elected officials or City employees involved in the investment process) acting in accordance with written procedures, within this investment policy, and with due diligence shall be relieved of personal responsibility for an individual security’s credit risk or market price changes.

The “prudent person” standard states that, “Investments shall be made with judgement and care under circumstances then prevailing, which persons of prudence, discretion, and intelligence exercise in the management of their own affairs, not for speculation, but for investment, considering the probable safety of their capital as well as the probable income to be derived.”

2. Ethics and Conflicts of Interest

All City elected officials and City employees involved in the investment process shall refrain from personal business activities that could conflict with the proper execution and management of the investment program, or that could impair their ability to make impartial decisions. No elected official or City employee involved in the investment process shall have a direct or indirect financial interest with the broker or corporation with whom they are conducting business. Elected officials or City employees involved in the investment process shall disclose any personal financial interests that could be related to the performance of the City’s investment portfolio. Elected officials or City employees involved in the investment process shall refrain from undertaking personal investment transactions with the same individual with whom business is conducted on behalf of the City of Bentonville.

D. Authorized Financial Institutions and Brokers/Dealers

The Finance and Accounting Departments are responsible for the City’s banking relationships. Establishing new or closing bank accounts should only be done by the Accounting Department. Use of the City’s Federal Employer Identification Number to open bank accounts for other than legal, authorized City business is prohibited.

Security transactions (excluding certificates of deposit or CDARS program, see F.3 below) on behalf of the City will be conducted only with financial institutions and brokers/dealers who have been approved by City Council. In addition, the financial institutions must be on the list of banks or banking institutions, maintained by the Arkansas Bank Commissioner,

that are eligible to hold public funds. (Arkansas Code Annotated § 19-8-107) Brokers/dealers must meet or exceed the capital adequacy standards set by the Federal Reserve Bank of New York, and may include dealers or regional dealers that qualify under Securities and Exchange Commission (SEC) Rule 15C3-1 (Uniform Net Capital Rule). In addition, the broker/dealer that conducts security transactions on behalf of the City and/or performs safekeeping duties related to those securities on behalf of the City shall:

- Have offices located in the State of Arkansas.
- Be registered with the Arkansas Securities Department.
- Be a member of Financial Industries Regulatory Agency (FINRA).
- Be a member of Securities Investor Protection Corporation (SIPC).

E. Safekeeping and Collateralization

1. *Records*

Complete records of all investment transactions will be kept by the City of Bentonville for the amount of time required by State law.

2. *Delivery vs. Payment*

All trades where applicable will be executed by delivery vs. payment (DVP) to ensure that securities are deposited in an eligible financial institution prior to the release of funds.

3. *Collateralization*

Collateralization will be maintained as required by State law.

F. Authorized Investments

1. The City will invest only in book entry securities.
2. The City may invest in any instrument or security authorized for investment by Arkansas Code Annotated § 19-1-501, and further defined in § 19-1-505, or by the Local Government Joint Investment Trust Act, and Arkansas Code Annotated § 19-8-301 et seq., as they may from time to time be amended.
3. The City of Bentonville shall not invest in derivative products, common stocks, or long-term bonds used for speculation.
 - a. The City can accept common stocks of publicly traded companies as donations.
 - i. The City will not accept such stocks without approval from City Council.
 - ii. The City will liquidate (sale) the stock as soon as reasonably possible after receipt of the stock. The City's intent is not to hold Stock but to liquidate it immediately after receipt.

- iii. Any conditions of the stock donation will be approved by City Council.

G. Investment Parameters

1. *Diversification*

The investments shall be diversified by:

- Limiting investment concentrations in securities from a specific issuer or business sector (excluding U.S. Treasury securities),
- Limiting investment in securities that have higher credit risks,
- Investing in securities with varying maturities, and;
- Continuously investing a portion of the portfolio in readily available funds such as money market funds to ensure the appropriate liquidity is maintained to meet ongoing obligations.

2. *Maximum Maturities*

To the extent feasible, the City of Bentonville shall attempt to match its investments with anticipated cash flow requirements. The City anticipates a range of maturities from ninety (90) days to five (5) years, consistent with the investment objectives.

Reserve funds, capital improvement funds and other funds with longer-term investment horizons may be invested in securities exceeding five (5) years if the maturities of such investments are made to coincide as nearly as practicable with the expected use of funds, or in securities with active secondary or resale markets.

3. *Competitive Quotes*

The Finance Director or designee shall attempt to obtain competitive quotes from at least three financial institutions on all purchases of certificates of deposits (or CDARS) with financial institutions. These financial institutions must be permitted to work in the State of Arkansas and have offices located in Benton and Washington counties in Arkansas. The Finance Director and one other pre-established bank signor are allowed to establish Certificate of Deposit or CDARS accounts with the bank providing the most competitive product taking into account safety, liquidity and yield.

H. Internal Controls

The Finance Director or designee shall establish policies and procedures to provide reasonable assurance that the City's monies are protected from loss due to fraud or employee error. A review of internal controls and compliance with the policies and procedures of the City's Cash Management Policy will be conducted as part of the City's annual financial audit.

Any suspicion of fraud or non-compliance with internal control procedures will be reported to the Finance Director or Assistant Finance Director immediately for further investigation.

I. Monitoring and Reporting

Cash flow is monitored on an ongoing basis to ensure that liquid funds are available to meet upcoming payment obligations. Any idle cash is invested in accordance with the City's Investment Policy.

The City's various bank accounts are reconciled on a monthly basis by the Accounting Department but not by the same employees responsible for preparing the daily deposit or weekly check run.

The Finance Director or investment advisor shall prepare an investment report at least annually that provides an analysis of the status of the current investment portfolio. The report shall include the following:

- Listing of individual securities held at the end of the reporting period.
- Realized and unrealized gains or losses resulting from appreciation or depreciation.
- Listing of investment by maturity date.
- Percentage of the total portfolio which each type of investment represents.

J. Annual Review

This policy shall be reviewed annually by the Finance Director, other City employees and elected officials involved in the investment and cash management process. The policy is subject to any revisions needed to stay current with changes in laws, regulations or needs of the City. Any modifications made shall be approved by City Council.

Appendix A

CASH COLLECTION AND DEPOSIT PROCEDURES

I. Purpose

The purpose of this document is to provide City of Bentonville employees with standard guidelines for cash collection and deposit procedures. All cash handling processes shall be performed within the delegated scope of authority and in compliance with all federal, state and local laws, City policy and generally accepted accounting principles.

II. Scope

This document provides the framework for the handling of cash by all departments of the City of Bentonville. Departments may have requirements in Federal or State laws, grant awards or other mandates not covered in this policy. The Finance and Accounting Departments should be notified of any additional requirements. Each department is responsible for developing internal cash handling procedures based on this document and for training their personnel on these procedures.

III. Cash Collection and Receipt Processing

A. Safekeeping of Funds

- i. To enhance the internal control over money, a segregation of duties within the department should be in place so that errors or irregularities are prevented or promptly detected. Where staffing levels do not permit separation of duties, other controls such as strict individual accountability, thorough management review and supervision shall exist. Department Managers should periodically examine, count or perform other reviews of cash funds.
- ii. The number of employees with access to cash funds shall be limited to ensure internal control.
- iii. Physical protection of funds through the use of bank facilities, safes and locked cash boxes or drawers shall be practiced at all times.
- iv. All unattended cash must be secured and safeguarded in a locked and secure location.
- v. Cash held on the premises shall be held at an absolute minimum to ensure safety and maximize return on investments.
- vi. All cash should be maintained on City property unless it is being transported between the bank or City properties during the normal course of business.

B. Cashier Responsibility

- i. It is the responsibility of the cashier to ensure Cash Receipt Batches and cash on hand equal at all times (excluding starting cash). If a cash drawer or Cash Receipt Batch is out of balance, an over/short transaction must be recorded in the City's accounting software. Employees are strictly prohibited from putting money in or taking money out of their drawer in order to make it balance.
- ii. All Cash Receipt Batches and drawers are to be handled in a neat and professional manner (contact the Accounting Department for a list of suggested guidelines).

C. Receipt Processing

- i. All payments received on obligations to the City must be recorded through a computerized accounting system with computer generated official city receipts or handwritten receipts that are pre-numbered to account for lapsed sequence. The customer must be encouraged to take a receipt for all transactions; a receipt must be generated whether or not a customer requests or takes a receipt. All numbered receipts must be accounted for, including the original of voided receipts.
- ii. Regardless of when the deposit is taken to the Administrative Services Building, the recording of any transaction should happen at the time the transaction occurs.

D. Cash Receipts

i. Checks

1. All checks should be made payable to the City of Bentonville or a variation (Ex: Bentonville Water Department, Bentonville Police, etc...). Under no circumstances shall a check for the City be made payable to an individual and signed over to the City. An exception to this is a reimbursement check made payable to a City employee and owed to the City, for that particular reason the check can be signed over to the City.
2. All checks received shall be restrictively endorsed (stamped) immediately upon receipt or opening of mail.
3. Each check shall be inspected for the following:
 - a. Current date (post or stale dated checks are not to be accepted).
 - b. Proper signature.
 - c. No alterations (unless allowed by current bank regulations). Allowed alterations must be initialed by issuing party.
 - d. Bank name and routing number printed on check.

- e. Legal line matches courtesy amount and is the amount to be credited (amount written in words matches the numerically written amount).
 - f. For temporary checks, the payer's name, address, phone number and State issued ID number are written on the check.
4. Check cashing is prohibited unless there is an emergency circumstance. The Accounting Department must approve any check cashing and the check has to be issued by the City of Bentonville in a situation where cash is needed immediately for official City business.

ii. Credit Cards

- 1. All credit card transactions must be recorded the same day the transaction takes place in the City's accounting software or 3rd Party Software.
- 2. If an error occurs in the credit card company's software during processing, the customer's account will be credited in a timely manner from when the error is identified.
- 3. A customer's credit card information should be collected in a Payment Card Industry (PCI) compliant manner.
 - a. Credit card information must be treated as confidential and can only be taken in person, by phone or through an online payment portal. Accepting credit card information via email is not allowed.

- iii. Cash back will not be provided for a check or credit card transaction.

E. Cash Receipt Batches delivered to Administrative Services

- i. Departments must drop off all Cash Receipt Batches at the Utility Billing Department. The batches shall be given directly to a member of Utility Billing to be placed in their safe.
- ii. Cash Receipt Batches must be dropped off the day after original receipt (excluding weekends) unless exempted below.
 - 1. *Exemptions:*
 - a. Deposits shall be made within twenty-four (24) hours of receipt. Departments, in conjunction with the Accounting Department shall assess the reasonableness, practicality, and security in determining the timing for deposits, especially when deposits exceed the twenty-four (24) hour time requirement noted above. Careful consideration

shall be given to the risk involved in holding idle cash and/or cash equivalents in the department versus the cost of making more frequent deposits. Requests for waivers of the requirement for deposits to be made within twenty-four (24) hours of receipt shall be submitted to the Accounting Department for consideration by the Assistant Finance Director or designee.

- b. Cash maintained in various vending type machines maintained at City facilities (batch must be brought up when the machine is serviced/Par Out).
- c. A deposit that requires special processing due to additional requirements and cannot be completed the day of receipt. In this case, the deposit should be brought up when the additional requirements are met.

F. 3rd Party Software (Software other than the City's accounting software)

- i. If 3rd Party Software is being utilized as the initial point of sale system, a report must be provided from the 3rd Party Software that shows the amount receipted in. This amount must equal the amount entered into the City's accounting software.
- ii. If a 3rd Party Software is being utilized, all daily receipts (if done by multiple cashiers) shall be combined and balanced before being entered into the City's accounting software as one batch.

IV. Deposit Processing

It is the responsibility of the Accounting Department to balance all cash receipts daily to the City's accounting software and supporting documentation (daily deposit slips, 3rd Party reports, system receipts and reports) and resolve all discrepancies.

The standard for depositing cash and checks in the bank shall be within 24 hours (excluding weekends) of receipt of those funds by the Accounting Department (unless staffing levels require a temporary exception). All deposits not made daily shall be held in a secure location such as a safe.

Copies and receipts provided by the bank shall be maintained with the corresponding day's system cash reports and department provided support.

V. Refunds

All customer refunds should either be processed by check through the Accounting Department or via credit card. Cash refunds are not allowed.

- i. If the original payment was made by cash or check, refunds must be made in the form of a check issued by the Accounting Department. The Accounts Payable staff processes these as a Request for Check and are subject to Department Head approval. All refund requests must be accompanied by proof of payment (receipt), the date paid, amount paid and purpose of payment.
- ii. Credit card refunds are only for refunding payments originally made by credit card and must be refunded to the same credit card number used to make the initial payment. Credit card refunds may be processed by check if needed.

VI. Petty Cash

Petty cash funds held by the City departments should be properly secured at all times. Access to these funds should be restricted to specified personnel that are responsible for the funds.

Cash on hand and receipts for disbursements made should always equal the assigned amount of the petty cash fund. A member of staff within the respective department should reconcile petty cash monthly. When the person performing the reconciliation is also the person that maintains the funds, another staff member should review the reconciliation. Reimbursement of the petty cash funds should be submitted to the Accounting department at least annually prior to the end of the year.

On an annual basis, Accounting will perform an audit of City-wide petty cash.

VII. Internal Control

Strong internal controls for cash collection are necessary to prevent mishandling of City funds and are designed to safeguard and protect employees from inappropriate charges of mishandling funds by defining their responsibilities in the cash handling process.

Violation of this policy could result in discipline, up to and including termination. Any violation of the policy amounting to theft will be referred for prosecution.

VIII. Definitions

- *Cash Receipt Batch* – the accumulation of a day's work including all currency, checks, money orders, negotiable instruments and charge card transactions that has been entered and reconciled with the City's accounting software.
- *Receipt* – paper or electronic record of a financial transaction.



City of Bentonville, Arkansas Agenda Item Form

Item Details

Council Meeting Date:		Submitted By:	
Phone:		For Department(s):	
Email:			

Item Type (Check all that apply)

Informational	Bid Award	Enter into an Agreement	Change Order
Recognizing Funds	Budget Adjustment	Waiver of Bid	Emergency Clause
Ordinance	Resolution		Informational

Title, Recommendation & Justification

Title:	
Action Recommendation & Justification:	
Additional Comments for Consideration (Optional):	

Amount for Approval:	\$
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Budget Impact

Is this Item Budgeted? YES NO ITEM HAS NO COST OTHER: _____

Budget Adjustment (to be completed by Finance when applicable)

Account Number (ORG-OBJECT)	Account Description	\$	\$
		Expense	Revenue
Account Number (ORG-OBJECT)	Account Description	\$	\$
		Expense	Revenue
Account Number (ORG-OBJECT)	Account Description	\$	\$
		Expense	Revenue
Account Number (ORG-OBJECT)	Account Description	\$	\$
		Expense	Revenue

Fund(s) Impacted

(check all that apply)

General Fund Utility Fund Street Fund Other(s): _____

Budget Impact Notes for Consideration (Optional):

City of Bentonville, Arkansas

City Hall

305 SW A Street Bentonville, AR 72712

**Navigation Electronics, Inc**

Jonesboro, Arkansas

72455

Josh Bettis**Quote #: Q15887****Date: Aug 8, 2023**

josh_bettis@neigps.com

Arkansas Survey & Construction Sales

(800) 949-1446

(870) 273-6333

CITY OF BENTONVILLE**Charlie Barnes**

cbarnes@bentonvillear.com

(M) (479) 531-0020 (O) (479) 271-5946

BILL TO

3200 SW Municipal Dr

BENTONVILLE, AR 72712

SHIP TO

3200 SW Municipal Dr

BENTONVILLE, AR 72712

Line #	Part Number	Description	Qty	List Price	Gov. Discount	Gov. Total
1.	109100-10	Trimble Alloy GNSS Receiver + Zephyr 3 Geodetic Antenna, includes: Zephyr 3 Geodetic Cable - GPS 30m LMR-400 TNC/TNC Alloy Accessory Kit includes: 120030 - 2.4 GHz Wifi stick antenna 176767 - 1 Li-Ion Smart Battery 107000 - Power Supply 78651 - Power Cord Kit 78656 - Power Cord, 6 ft 59044 DB9 - Power Cable - 1.5m, DB9(F) Y to OS/7P/M to Power Jack 19309-00 - DB9 Data Cable - 1.8m, DB9/M-DB9/F, Data 50150-00 - Cable - 2M ETHERNET 10Base-T CAT5 74399-00 - Cable USB mini-B Plug Host to A JACK 74408-00 - Cable USB mini-B plug to A plug 41124 - Tripod Clip EM/TM3 Tripod 27953 - Tripod Clip Screws	1	\$ 16,015.00	\$ 800.75	\$ 15,214.25
2.	109UPG-100HZ	Trimble Alloy Upgrade - 100Hz Data Rate	1	\$ 550.00	\$ 27.50	\$ 522.50
3.	109UPG-24GB	Trimble Alloy Upgrade - 24GB Memory	1	\$ 830.00	\$ 41.50	\$ 788.50
4.	109UPG-GAL	Trimble Alloy Upgrade - Enable Galileo	1	\$ 1,655.00	\$ 82.75	\$ 1,572.25
5.	109UPG-BDS	Trimble Alloy Upgrade - Enable Beidou	1	\$ 1,655.00	\$ 82.75	\$ 1,572.25
6.	109UPG-BATT	Trimble Alloy Upgrade - Dual (second) battery	1	\$ 215.00	\$ 10.75	\$ 204.25
7.	EWTPAP-ALLOY-HW	TPP - Hardware - TAP Alloy Receiver	4	\$ 860.00	\$ 172.00	\$ 3,268.00

Grand Total

\$ 23,142.00

Purchase orders should be addressed to:

Navigation Electronics, Inc

124 Toledo Dr.

Lafayette, LA 70506

Please email a copy of your order to: josh_bettis@neigps.com



NEI is a Certified
Woman Owned Small Business

Quote: Q15887

FOB: Origin, customer pays all shipping costs

Terms: Net 30

Delivery: 5 Days ARO

Valid Until: Dec 31, 2022

Order Placement Procedures

Complete and Sign this Quotation

Sign this quotation and return via email or facsimile before the expiration date: Dec 31, 2022

Complete Lease Agreement

If this order is to be leased, complete the lease agreement sent to you, following the enclosed instructions. Order fulfillment will start after the lease is approved. Please note that due to fluctuations in interest rates, leasing terms cannot be guaranteed, contact House Account to lock in rates.

Credit Card Payment

Avoid a credit card surcharge by making an **ACH payment**. Contact accounting@neigps.com for or call 337-237-1413 or 800-949-1446 for setup instructions.

Quote # Q15887

Client Representative

X

Approved By (Signature)

X

Approved By (Name)

Date

Purchase Order Number



Alloy

GNSS Reference Receiver

The Future of GNSS is here

The Trimble® Alloy GNSS receiver offers powerful performance with the latest GNSS technology in a sleek new design that is easy and intuitive to use. Whether you need GNSS for campaign work or in permanent installations, the flexible configuration delivers reliable, robust data when and where you need it.

Modernized GNSS Tracking

Using powerful Trimble 360 receiver technology in combination with dual Trimble Maxwell™ 7 chipsets, the Alloy GNSS receiver supports all known and planned GNSS constellations, ensuring your GNSS data is robust and reliable including GPS Block IIIA and BeiDou Generation III.

Intelligent Design

Review Key Info at a Glance

With a four-line angled display you can read all important information such as satellite tracking, position solution type, data logging, IP address, Wi-Fi, firmware information and battery status right on the home screen. Setup and verifying status information is now quick and easy.

Plug in and get to work

Multiple ports are easily accessible without the need for adapters in a configuration that makes it simple to plug in a variety of external sensors and antennas.

Power when you need it

The Alloy receiver provides the most robust power options for any GNSS system. Featuring multiple power inputs with dual hot-swappable batteries, power over Ethernet, and advanced power management features, the Trimble Alloy GNSS receiver is ideal for any GNSS base station deployment.

Stackable Design

With a versatile, stackable design the Alloy GNSS receiver is built with a lightweight rugged aluminum alloy chassis which features IP68 certification. When you need to organize multiple units for deployment, simply stack and prep.

Benefits

- Dual Trimble Maxwell 7 chipsets combined with a powerful processor provides the ultimate in tracking and processing power
- Ethernet and Wi-Fi support provide ease of access, configuration, and transfer of data. Using the built-in web interface gives instant access to a simple-to-use configuration suite
- Dual hot-swappable internal batteries with integrated charging makes the Alloy receiver suitable for use in the office or remote locations, and anywhere in between
- The intelligent design features multiple connectors and stackable housing, making the Alloy receiver easy to configure for deployment
- Seamless integration to Trimble Pivot™ platform software for easy Real-Time Network operations
- Designed to an IP68 certification the Alloy receiver is ready for any environment
- Includes firmware for life so it's easy to keep your Alloy reference receiver up-to-date with the latest features, enhancements and security updates, free to install from alloy.trimble.com





Alloy

GNSS Reference Receiver



Security 24/7

Using Trimble Sentry™ technology, you can easily configure alerts that will automatically inform you of any changes to the position, data logging, configuration, tracking, power, communications, and system access events. Combined with advanced security measures such as anti-spoofing, Trimble Sentry technology ensures continued operation of your Trimble Alloy GNSS receiver.

Trimble RTX on Board

The Alloy GNSS receiver is available with Trimble RTX™ advanced positioning technology allowing for rapid real-time network coordination. Whether this is for base station deployment or monitoring, Trimble RTX technology remains locked onto your real world absolute position.

Communication

The Trimble Alloy GNSS receiver supports a wide range of communication protocols including Ethernet (IPv4 / IPv6), Bluetooth®, and Wi-Fi for flexible easy access via the built-in multi-language web interface and mini-web interface for mobile devices.

Data

Storage

The Alloy GNSS receiver can store more data in less space by using specialized compression formats. Up to twelve independent high-rate data logging sessions can be stored internally. USB compatibility ensures data portability with external data transfer and temporary external storage.

Access

Leveraging advanced communication protocols, data can be accessed via the web interface, built-in FTP server, or configured to be pushed to remote FTP sites or email accounts in multiple industry formats.

SPECIFICATIONS¹

GNSS TECHNOLOGY

Trimble RTX worldwide corrections

Advanced Trimble dual Maxwell 7 GNSS chipset provide 672 channels for simultaneous satellite tracking and anti-spoofing capabilities

Trimble ProPoint[®] GNSS positioning engine. Engineered for improved accuracy and productivity in challenging GNSS conditions.

Trimble EVEREST[™] Plus multipath signal rejection

Trimble 360 receiver technology

High-precision multiple correlator for GNSS pseudorange measurements

Spectrum Analyzer to troubleshoot GNSS jamming

Trimble Sentry delivers anti-spoofing security

Unfiltered, unsmoothed pseudorange measurements data for low noise, low multipath error, low-time domain correlation and high dynamic response

SATELLITE TRACKING

GPS: L1C, L1 C/A, L2E (L2P), L2C, L5

GLONASS: L1 C/A² and unencrypted P code, L2 C/A and unencrypted P code, L3 CDMA

Galileo: E1, E5A, E5B and E5AltBOC, E6

BeiDou: B1, B2, B3, B1C, B2A, B2B

QZSS: L1 C/A, L1C, L1S, L2C, L5, LEX/L6³

IRNSS: L5, S-Band

SBAS: L1 C/A (EGNOS/MSAS GAGAN/SDCM), L1 C/A and L5 (WAAS)

L-Band: Trimble RTX

INPUT/OUTPUT FORMATS

Correction formats: CMR, CMR+, CMRx, GAGAN, RTX, RTCM 2.x, RTCM 3.x

Observables: RT17, RT27, BINEX, RTCM 3.x

Position/Status I/O: NMEA-0183 v2.30, GSOF

Up to 100 Hz output

10 MHz external frequency input

Normal input level 0 to +13 dBm

Maximum input level +17 dBm, ±35 V DC

Input impedance 50 Ohms @ 10 MHz; DC blocked

1 PPS output

Event input

Met/Tilt sensor support

POSITIONING PERFORMANCE

Differential positioning

Code differential GNSS positioning ⁴	Horizontal	0.25 m + 1 ppm RMS
	Vertical	0.50 m + 1 ppm RMS
SBAS differential positioning accuracy ⁵	Horizontal	0.50 m RMS
	Vertical	0.85 m RMS

Static GNSS surveying⁴

High-accuracy 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 surveying⁴

Single baseline < 30km	Horizontal	8 mm + 1 ppm RMS
	Vertical	15 mm + 1 ppm RMS
Networked RTK ⁶	Horizontal	8 mm + 0.5 ppm RMS
	Vertical	15 mm + 0.5 ppm RMS

Initialization time typically < 10 seconds

Initialization reliability typically > 99.9%

SPECIFICATIONS¹

COMMUNICATION

Serial Ports:	Two 9-pin Male
	Two 7-pin Lemo
USB: one Mini-B USB 5-pin / RDNIS (Device and Host modes)	
Ethernet: one RJ45 (Full-duplex, auto-negotiate 100Base-T)	HTTP, HTTPS, TCP/IP, IPv4 / IPv6, UDP, FTP, NTRIP Caster, NTRIP Server, NTRIP Client, Proxy server
	Routing table, NTP Server, NTP Client support
	Email Alerts and File Push
	DNS client support
	SNMP Agent
Wi-Fi: 802.11 b/g, access point and client mode, WPA/WPA2/WEP64/WEP128 encryption	
Bluetooth ⁷ : Integrated 2.4 GHz Bluetooth; supports three simultaneous connections	

DATA LOGGING

Storage capacity:	Onboard Memory (Journaling)	up to 24 GB ⁸
Maximum data logging rate	100 Hz	
Maximum combined data logging rate	188 Hz	
File durations	1 minute to continuous	
Storage sessions	12 concurrent independent sessions with dedicated memory pooling	
File formats	T02, T04, BINEX, RINEX v2.x/3.0x, Google Earth KML/KMZ	
File naming conventions	Multiple	
Data retrieval and transfer	HTTP, FTP Server, USB	
Events	Definable file protection on events	

PHYSICAL SPECIFICATIONS

Alloy receiver dimensions (L x W x H)	20.98 cm x 21.36 cm x 7.62 cm (8.41 in x 8.26 in x 3 in)	
Alloy receiver dimensions with brackets attached (L x W x H)	26.77 cm x 21.36 cm x 8.3 cm (8.41 in x 10.54 in x 3.27 in)	
Weight	2.34 kg (5.17 lbs)	

ENVIRONMENT

Operating temperature ^{9,10}	-40 °C to +65 °C (-40 °F to +149 °F)	
Storage temperature	-40 °C to +80 °C (-40 °F to +176 °F)	
Humidity	100% condensing	
Shock	Operating	40 g per MIL-STD-810G Table 5.16.6-VII
	Non operating	75 g per MIL-STD-810G Table 5.16.6-VII Designed to survive 1 m bench drop
Vibration	Operating	MIL-STD-810G Fig. 5.14.6C-1 Category 4
	Ingress protection	IP68 Certified per IEC-60529 - waterproof/dustproof (1 m submersion for 1 hr)

USER INTERFACE

Front panel display	4-line x 32 character reversible OLED display
	7 button input configuration
	Adjustable LED backlighting
Multiple language support for front panel and web UI – Chinese, Dutch, English, Finnish, French, German, Italian, Japanese, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish	
Web user interface: Allows remote configuration, data retrieval, and firmware updates over HTTPS/HTTP	

ANTENNA SUPPORT

Output voltage	5 V DC nominal
Maximum output current	150 mA
Maximum cable loss	12 dB
Recommended antennas	Trimble Zephyr™ 3 Geodetic, Trimble GNSS-Ti v2 Choke Ring



GNSS Reference Receiver

SPECIFICATIONS¹

SECURITY

HTTP login

HTTPS/SSL

Programmatic interface authentication

NTRIP

IP filtering

ELECTRICAL

Power over Ethernet (PoE) 802.3af (Type 1), 802.at (Type 2)

10.8 to 28.0 V DC input on 2 Lemo ports

User-configurable power-on voltage

User-configurable power-down voltage

User-configurable 12 V DC power output on serial port #2

Integrated dual hot-swappable smart batteries (7.4 V, 7800 mA-hr, Li-Ion batteries) with up to 15 hours of continuous operation

Seamless switching between external/internal power sources

Configurable minimum input voltage for battery charging

Integrated battery charging circuitry

Power consumption – 3.8 W or higher, dependent on user settings

REGULATORY COMPLIANCE

FCC Part 15 (Class B device), CISPR 32, 24

RED CE Mark

RCM

UN 38.3 – ST/SG/AC.10/27/Add.2 Rev.5 (Li-Ion battery)

IEC 62133(Ed.2) and EN 62133: 2013 (Li-Ion battery)

RoHS, China RoHS, WEEE

¹ Specifications subject to change without notice.

² L2 C/A on GLONASS-M satellites.

³ LEX/L6 supported on QZSS Block I satellites.

⁴ Accuracy may be subject to degradation by multipath interference, obstructions, satellite geometry and atmospheric conditions. Always follow recommended survey practices.

⁵ Depends on WAAS/EGNOS system performance.

⁶ Networked RTK PPM values are reference to the closest physical base station.

⁷ Bluetooth type approvals are country specific.

⁸ Trimble's highly efficient T02 data logging format makes this equivalent to 32 GB to 55 GB for competitive receivers.

⁹ Operating temperature when connected to external DC supply. To protect the removable Li-Ion batteries from extreme temperatures, the battery charger only operates from 5 °C to 35 °C (41 °F to 95 °F).

¹⁰ If operated only with batteries and no external DC supply, operating temperature is -20 °C to +55 °C (-4 °F to +131 °F).

Contact your local Trimble Authorized Distribution Partner for more information

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Westminster CO 80021
USA

EUROPE

Trimble Germany GmbH
Am Prime Parc 11
65479 Raunheim
GERMANY

ASIA-PACIFIC

Trimble Navigation
Singapore PTE Limited
3 HarbourFront Place
#13-02 HarbourFront Tower Two
Singapore 099254
SINGAPORE

RESOLUTION NO. _____

A RESOLUTION ADJUSTING THE 2023 BUDGET; AUTHORIZING THE MAYOR AND CITY CLERK TO ENTER INTO AN AGREEMENT WITH NAVIGATION ELECTRONICS, INC., FOR THE PURCHASE OF A TRIMBLE REFERENCE STATION, IN THE AMOUNT OF TWENTY-THREE THOUSAND ONE HUNDRED FORTY-TWO DOLLARS (\$23,142.00), PLUS APPLICABLE TAXES; AND FOR OTHER PURPOSES.

WHEREAS, the City of Bentonville Electric Department is requesting to purchase an upgraded Trimble Reference Station due to outdated software components;

WHEREAS, the current Trimble software is still using Windows XP and is no longer supported; and

WHEREAS, a budget adjustment will be needed for this purchase to update Vendor name in the related line item.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF BENTONVILLE, ARKANSAS THAT:

Section 1: The Mayor and City Clerk are authorized to enter into an agreement with Navigation Electronics Inc., in the amount twenty-three thousand one hundred forty-two dollars (\$23,142.00) plus applicable taxes, for the purchase of a Trimble Reference Station;

Section 2: The 2023 Budget is adjusted to reflect that funds within account 47510 be used for this purchase;

Section 3 - Severability Provision: If any part of this Resolution is held invalid, the remainder of this Resolution shall continue in effect as if such invalid portion never existed; and

Section 4 - Repeal of Conflicting Provisions: All Ordinances, Resolutions, or Orders of the City Council, or parts of the same, in conflict with this Resolution are repealed to the extent of such conflict.

PASSED this _____ day of _____, 2023.

Attest:

KIRBY ROMINES, City Clerk

APPROVED:

STEPHANIE ORMAN, Mayor