

MARSHALL DOWNTOWN DEVELOPMENT AUTHORITY
LOCAL DEVELOPMENT FINANCE AUTHORITY
MARSHALL ECONOMIC DEVELOPMENT CORPORATION
BROWNFIELD REDEVELOPMENT AUTHORITY

AGENDA

**Thursday, October 27, 2022 at 4:00 p.m.
City Hall Training Room**

- 1) **CALL TO ORDER**
- 2) **ROLL CALL**
- 3) **PUBLIC COMMENT** – Persons addressing the Board are required to give their name and address for the record when called upon by the Chair. Members of the public shall be limited to speaking for a maximum of five (5) minutes.
- 4) **PRESENTATIONS**
 - A. **Marshall Energy Center Presentation**
- 5) **CONSENT AGENDA**
 - A. **Board Minutes**
Regular MeetingThursday, September 22, 2022
 - B. **Financials**
DDA Revenue/Expense Report.....Period ending September 30, 2022
LDFA Revenue/Expense Report.....Period ending September 30, 2022
- 6) **MAEDA UPDATE**

MARSHALL DOWNTOWN DEVELOPMENT AUTHORITY
- 7) **NEW BUSINESS**
 - A. **Downtown clock repair**
- 8) **OLD BUSINESS**

LOCAL DEVELOPMENT FINANCE AUTHORITY
- 9) **NEW BUSINESS**
- 10) **OLD BUSINESS**
 - A. **Brooks Substation Construction Update**
- 11) **BOARD COMMUNICATIONS**
- 12) **ADJOURNMENT**

GL NUMBER	DESCRIPTION	2022-23 AMENDED BUDGET	YTD BALANCE 09/30/2022	ACTIVITY FOR MONTH 09/30/2022	% BDGT USED
Fund 248 - DOWNTOWN DEVELOPMENT AUTHORITY					
Revenues					
Dept 000					
248-000-402.00	Current Property Taxes	169,908.00	0.00	0.00	0.00
248-000-404.00	Property Taxes - Prior Years	0.00	0.00	0.00	0.00
248-000-412.00	Delinquent Personal Prop Taxes	50.00	0.00	0.00	0.00
248-000-445.00	Penalties & Int. on Taxes	0.00	0.00	0.00	0.00
248-000-565.00	Sales Tax Inventory Refund	0.00	0.00	0.00	0.00
248-000-573.00	LOCAL COMM STAB SHARE TAX	25,000.00	0.00	0.00	0.00
248-000-588.00	Contributions from Local Units	0.00	0.00	0.00	0.00
248-000-665.00	Interest	0.00	245.29	24.15	100.00
248-000-665.03	UNREALIZED GAIN/LOSS ON INVESTMENTS	0.00	0.00	0.00	0.00
248-000-675.00	Contrib. from Other Sources	0.00	0.00	0.00	0.00
248-000-676.00	Reimbursement	0.00	0.00	0.00	0.00
248-000-679.00	MISCELLANEOUS REVENUE	0.00	0.00	0.00	0.00
248-000-679.16	MISC REVENUE - BLUES FEST	54,000.00	58.94	0.00	0.11
248-000-696.00	Proceeds from Bonds/Notes	0.00	0.00	0.00	0.00
248-000-699.00	Transfers From Other Funds	0.00	0.00	0.00	0.00
Total Dept 000		248,958.00	304.23	24.15	0.12
Dept 729 - Community Development					
248-729-588.00	Contributions from Local Units	0.00	0.00	0.00	0.00
248-729-675.00	Contrib. from Other Sources	0.00	0.00	0.00	0.00
248-729-679.00	MISCELLANEOUS REVENUE	0.00	0.00	0.00	0.00
248-729-699.00	Transfers From Other Funds	0.00	0.00	0.00	0.00
Total Dept 729 - Community Development		0.00	0.00	0.00	0.00
TOTAL REVENUES		248,958.00	304.23	24.15	0.12
Expenditures					
Dept 000					
248-000-702.00	Payroll	0.00	154.55	75.75	100.00
248-000-702.01	Other Fringe Benefits-taxable	0.00	0.00	0.00	0.00
248-000-702.40	Payroll - Rubbish/Garbage	3,000.00	303.25	156.37	10.11
248-000-702.41	Payroll - Mowing/Trimming	1,200.00	0.00	0.00	0.00
248-000-702.42	Payroll - Parking Structure	800.00	154.74	102.87	19.34
248-000-702.43	Payroll - Sidewalk Snow Removal	1,000.00	0.00	0.00	0.00
248-000-702.44	Payroll - Flowers	1,400.00	84.53	62.38	6.04
248-000-703.00	Part-time Salaries	13,000.00	4,435.13	1,341.13	34.12
248-000-703.40	PART-TIME - RUBBISH/GARBAGE	0.00	0.00	0.00	0.00
248-000-703.41	PART-TIME - MOWING/TRIMMING	0.00	0.00	0.00	0.00
248-000-703.42	PART-TIME - PARKING STRUCTURE	0.00	0.00	0.00	0.00
248-000-703.43	PART-TIME - SIDEWALK SNOW REMOVAL	0.00	0.00	0.00	0.00
248-000-703.44	PART-TIME - FLOWERS	0.00	0.00	0.00	0.00
248-000-704.00	Overtime Salaries	0.00	0.00	0.00	0.00
248-000-704.40	Overtime - Rubbish/Garbage	0.00	242.18	0.00	100.00
248-000-704.41	Overtime - Mowing/Trimming	0.00	0.00	0.00	0.00
248-000-704.42	Overtime - Parking Structure	0.00	0.00	0.00	0.00
248-000-704.43	Overtime - Sidewalk Snow Removal	0.00	0.00	0.00	0.00
248-000-704.44	Overtime - Flowers	0.00	0.00	0.00	0.00
248-000-712.00	WORKERS COMPENSATION	623.00	0.00	0.00	0.00
248-000-715.00	Social Security	995.00	407.80	131.80	40.98
248-000-716.00	Hospitalization	0.00	0.00	0.00	0.00
248-000-717.00	Life Insurance	0.00	0.00	0.00	0.00
248-000-718.00	RETIREMENT - D/B	0.00	0.00	0.00	0.00
248-000-755.00	Miscellaneous Supplies	2,500.00	2,361.48	460.29	94.46
248-000-755.01	MISC SUPPLIES - DOWNTOWN PLANTERS	2,040.00	0.00	0.00	0.00
248-000-757.00	Fuels & Lubricants	0.00	200.00	0.00	100.00
248-000-777.00	MINOR TOOLS AND EQUIPMENT	100.00	0.00	0.00	0.00
248-000-801.00	Professional Services	1,000.00	838.00	148.00	83.80
248-000-801.01	Prof. Services - Streetscape	0.00	0.00	0.00	0.00
248-000-803.00	Service Fee	0.00	2.50	0.00	100.00
248-000-805.00	Administrative Costs	36,725.00	1,688.01	562.67	4.60
248-000-810.00	Dues & Memberships	0.00	0.00	0.00	0.00
248-000-811.00	Taxes	0.00	0.00	0.00	0.00
248-000-820.00	Contracted Services	50,000.00	5,750.00	0.00	11.50
248-000-820.01	Contracted Maint. - Plowing	0.00	0.00	0.00	0.00
248-000-820.02	Contracted Maint - Lawn	0.00	0.00	0.00	0.00
248-000-825.00	Insurance	0.00	0.00	0.00	0.00
248-000-850.00	Communications	720.00	240.00	120.00	33.33
248-000-860.00	Transportation & Travel	0.00	0.00	0.00	0.00
248-000-901.00	Advertising	0.00	0.00	0.00	0.00
248-000-921.00	Utilities - Gas	0.00	0.00	0.00	0.00
248-000-922.00	Utilities-Elec, Water, Sewer	0.00	0.00	0.00	0.00

GL NUMBER	DESCRIPTION	2022-23 AMENDED BUDGET	YTD BALANCE 09/30/2022	ACTIVITY FOR MONTH 09/30/2022	% BDGT USED
Fund 248 - DOWNTOWN DEVELOPMENT AUTHORITY					
Expenditures					
248-000-942.00	Rent	0.00	0.00	0.00	0.00
248-000-958.00	Education & Training	0.00	0.00	0.00	0.00
248-000-961.00	COMMUNITY PROMOTIONS	50,000.00	10,867.33	0.00	21.73
248-000-964.00	Refund or Rebates	0.00	0.00	0.00	0.00
248-000-970.00	Capital Outlay	0.00	0.00	0.00	0.00
248-000-971.00	Capital Outlay - Land	0.00	0.00	0.00	0.00
248-000-990.00	Debt Service	0.00	0.00	0.00	0.00
248-000-994.00	Bond Interest Paid	0.00	0.00	0.00	0.00
248-000-995.00	Transfers to Other Funds	0.00	0.00	0.00	0.00
Total Dept 000		165,103.00	27,729.50	3,161.26	16.80
Dept 717 - DDA Parking Lots					
248-717-941.00	MOTOR POOL VEHICLE RENTAL	0.00	0.00	0.00	0.00
Total Dept 717 - DDA Parking Lots		0.00	0.00	0.00	0.00
Dept 718 - DDA Parking Ramp					
248-718-941.00	MOTOR POOL VEHICLE RENTAL	4,560.00	12.34	0.00	0.27
Total Dept 718 - DDA Parking Ramp		4,560.00	12.34	0.00	0.27
Dept 719 - DDA Sidewalk					
248-719-941.00	MOTOR POOL VEHICLE RENTAL	5,370.00	0.00	0.00	0.00
248-719-941.02	MOTOR POOL REPLACEMENT CHARGE	1,505.00	376.26	125.42	25.00
248-719-941.03	MOTOR POOL OPERATING CHARGE	2,111.00	527.76	175.92	25.00
Total Dept 719 - DDA Sidewalk		8,986.00	904.02	301.34	10.06
Dept 729 - Community Development					
248-729-702.00	Payroll	0.00	0.00	0.00	0.00
248-729-702.01	Other Fringe Benefits-taxable	0.00	0.00	0.00	0.00
248-729-703.00	Part-time Salaries	0.00	0.00	0.00	0.00
248-729-704.00	Overtime Salaries	0.00	0.00	0.00	0.00
248-729-712.00	WORKERS COMPENSATION	0.00	0.00	0.00	0.00
248-729-715.00	Social Security	0.00	0.00	0.00	0.00
248-729-716.00	Hospitalization	0.00	0.00	0.00	0.00
248-729-717.00	Life Insurance	0.00	0.00	0.00	0.00
248-729-718.00	RETIREMENT - D/B	0.00	0.00	0.00	0.00
248-729-719.00	Hospitalization - Prescription	0.00	0.00	0.00	0.00
248-729-740.00	Operating Supplies	0.00	80.00	0.00	100.00
248-729-801.00	Professional Services	0.00	0.00	0.00	0.00
248-729-806.00	MEDICAL SERVICES	0.00	0.00	0.00	0.00
248-729-810.00	Dues & Memberships	0.00	0.00	0.00	0.00
248-729-820.00	Contracted Services	0.00	0.00	0.00	0.00
248-729-850.00	Communications	0.00	0.00	0.00	0.00
248-729-860.00	Transportation & Travel	0.00	0.00	0.00	0.00
248-729-901.00	Advertising	0.00	0.00	0.00	0.00
248-729-902.00	Marketing	0.00	0.00	0.00	0.00
248-729-940.00	Rentals	0.00	0.00	0.00	0.00
248-729-941.00	MOTOR POOL VEHICLE RENTAL	0.00	0.00	0.00	0.00
248-729-941.01	TECHNOLOGY INTERNAL SERVICE CHARGE	0.00	0.00	0.00	0.00
248-729-958.00	Education & Training	0.00	0.00	0.00	0.00
248-729-961.00	COMMUNITY PROMOTIONS	0.00	0.00	0.00	0.00
248-729-964.00	Refund or Rebates	0.00	0.00	0.00	0.00
248-729-969.00	Contingency	0.00	0.00	0.00	0.00
248-729-995.00	Transfers to Other Funds	0.00	0.00	0.00	0.00
Total Dept 729 - Community Development		0.00	80.00	0.00	100.00
TOTAL EXPENDITURES		178,649.00	28,725.86	3,462.60	16.08
Fund 248 - DOWNTOWN DEVELOPMENT AUTHORITY:					
TOTAL REVENUES		248,958.00	304.23	24.15	0.12
TOTAL EXPENDITURES		178,649.00	28,725.86	3,462.60	16.08
NET OF REVENUES & EXPENDITURES		70,309.00	(28,421.63)	(3,438.45)	40.42

GL NUMBER	DESCRIPTION	2022-23 AMENDED BUDGET	YTD BALANCE 09/30/2022	ACTIVITY FOR MONTH 09/30/2022	% BDGT USED
Fund 250 - LOCAL DEVELOPMENT FINANCE AUTHORITY FUND					
Revenues					
Dept 000					
250-000-402.00	Current Property Taxes	621,474.00	0.00	0.00	0.00
250-000-404.00	Property Taxes - Prior Years	0.00	0.00	0.00	0.00
250-000-445.00	Penalties & Int. on Taxes	0.00	0.00	0.00	0.00
250-000-540.00	State Grants	0.00	0.00	0.00	0.00
250-000-573.00	LOCAL COMM STAB SHARE TAX	142,000.00	0.00	0.00	0.00
250-000-665.00	Interest	50.00	1,138.46	0.08	2,276.92
250-000-673.00	Sales of Fixed Assets	0.00	0.00	0.00	0.00
250-000-675.00	Contrib. from Other Sources	0.00	0.00	0.00	0.00
250-000-679.00	MISCELLANEOUS REVENUE	0.00	0.00	0.00	0.00
250-000-696.00	Bond Proceeds	0.00	0.00	0.00	0.00
250-000-697.00	PREMIUMS ON BONDS	0.00	0.00	0.00	0.00
250-000-699.00	Transfers From Other Funds	0.00	0.00	0.00	0.00
Total Dept 000		763,524.00	1,138.46	0.08	0.15
TOTAL REVENUES		763,524.00	1,138.46	0.08	0.15
Expenditures					
Dept 000					
250-000-727.00	Office Supplies	0.00	0.00	0.00	0.00
250-000-740.00	Operating Supplies	0.00	0.00	0.00	0.00
250-000-755.00	Miscellaneous Supplies	0.00	0.00	0.00	0.00
250-000-801.00	Professional Services	5,000.00	24,432.01	7,306.15	488.64
250-000-803.00	Service Fee	500.00	500.00	0.00	100.00
250-000-805.00	Administrative Costs	160,537.00	39,999.99	13,333.33	24.92
250-000-810.00	Dues & Memberships	0.00	0.00	0.00	0.00
250-000-811.00	Taxes	1,000.00	0.00	0.00	0.00
250-000-820.00	Contracted Services	242,000.00	61,100.00	300.00	25.25
250-000-826.00	Bond Issuance Costs	0.00	0.00	0.00	0.00
250-000-860.00	Transportation & Travel	0.00	0.00	0.00	0.00
250-000-901.00	Advertising	0.00	0.00	0.00	0.00
250-000-902.00	Marketing	1,500.00	0.00	0.00	0.00
250-000-922.00	Utilities-Elec, Water, Sewer	1,200.00	49.45	0.00	4.12
250-000-941.00	MOTOR POOL VEHICLE RENTAL	0.00	0.00	0.00	0.00
250-000-941.01	TECHNOLOGY INTERNAL SERVICE CHARGE	0.00	0.00	0.00	0.00
250-000-958.00	Education & Training	0.00	0.00	0.00	0.00
250-000-960.00	REBATE REIMBURSEMENT	0.00	0.00	0.00	0.00
250-000-964.00	Refund or Rebates	0.00	0.00	0.00	0.00
250-000-970.00	Capital Outlay	360,000.00	14,823.70	0.00	4.12
250-000-970.35	BROOKS INDUSTRIAL PARK SUBSTATION	0.00	1,729,194.70	669,819.21	100.00
250-000-972.00	SHARE OF CAPITAL PURCHASED BY OTHER FUND	0.00	0.00	0.00	0.00
250-000-990.00	Debt Service	335,000.00	0.00	0.00	0.00
250-000-994.00	Bond Interest Paid	150,000.00	95,958.88	95,958.88	63.97
250-000-995.00	Transfers to Other Funds	0.00	0.00	0.00	0.00
Total Dept 000		1,256,737.00	1,966,058.73	786,717.57	156.44
TOTAL EXPENDITURES		1,256,737.00	1,966,058.73	786,717.57	156.44
Fund 250 - LOCAL DEVELOPMENT FINANCE AUTHORITY FUND:					
TOTAL REVENUES		763,524.00	1,138.46	0.08	0.15
TOTAL EXPENDITURES		1,256,737.00	1,966,058.73	786,717.57	156.44
NET OF REVENUES & EXPENDITURES		(493,213.00)	(1,964,920.27)	(786,717.49)	398.39
TOTAL REVENUES - ALL FUNDS					
TOTAL REVENUES - ALL FUNDS		1,012,482.00	1,442.69	24.23	0.14
TOTAL EXPENDITURES - ALL FUNDS		1,435,386.00	1,994,784.59	790,180.17	138.97
NET OF REVENUES & EXPENDITURES		(422,904.00)	(1,993,341.90)	(790,155.94)	471.35



ITEM 7A

TO: DDA/LDFA Board of Directors

FROM: Derek N. Perry, City Manager

DATE: October 27, 2022

SUBJECT: DOWNTOWN CLOCK CONTROLS REPLACEMENT

In the early 2000's, Marcia and Susan Udell donated the downtown clock to the City. Since that time, the control computer and associated battery backup have failed. The clock keeps time, but if it experiences a loss of power, resetting it is difficult. Additionally, the controls and battery backup are located in the basement of Marshall Hardware. As they work to remodel and reuse the basement space, they inquired about removing the non-functioning items.



The original clock manufacturer is no longer building the clocks, but fortunately, we have found a vendor (Electric Time Company Inc.) that can provide new movement assemblies and an automatic clock controller that can be housed in the clock itself.

Because this was not an anticipated or budgeted expense, we are requesting approval to proceed with the repair to keep the downtown clock in good repair and working condition.

BUDGET IMPACT: The quoted price from Electric Time Company, Inc. is \$2,583.00 and we estimate the cost of an electrician to install the components to be \$1,000 for a total project price of \$3,583.00. We have budgeted \$50,000 in contracted services (248-000-820) and, based on historical normal costs, and current expenses, will not require a budget amendment if approved.

RECOMMENDATION: Authorize the repair work to the downtown clock as presented.



September 28, 2022

Christy Ramey
Marshall, City of
Marshall, MI

Via email: Cramey@cityofmarshall.com

Subject: Clock Equipment Quotation - Marshall MI Street Clock Restoration

Dear Christy:

Thank you for your interest in Electric Time clocks. In reply to your request, I am sending Data Sheets 479, 481 & 483, plus Drawing A-16188-1, along with our Standard Terms and Conditions of Sale.

We are pleased to quote on the equipment you requested, as follows:

- | Qty. | Description |
|------|--|
| (2) | SHMI-WS-30-CMT-C6 exterior, center mount hub and movement assemblies for use with existing hands and dials with 30" o.d. dial markings <u>and with protective crystals</u> provided by others. Features include: Electric Time Company, Inc. Style HMI-C6 clock movement, with center mount collar. Note: No housing included. They are available if they will fit – please provide dimension inside clock head, of the dials, back to back. One of these movements may need to be installed upside down to fit inside your clock head as shown on Drawing A-16188-1. Aluminum Style "WS-30" clock hands with a matte black polyurethane painted finish. Dial markings (30" o.d.) to be provided by others. |
| (1) | Type CTRL-99BMI-PC, Automatic Clock Controller with IP65 enclosure – Indoor & Outdoor Use. Automatically resets clock after power failures and for daylight savings time (if required). Precision Quartz Time base 4 minutes per year maximum drift. Optional GPS – no drift. Built in 100 year daylight savings time calendar. 2 Line 16 character back lighted LCD display. ETL listed to UL 863.
Power Failure Event logging. Standard MI output – 4 clocks maximum standard. Standard 24VDC RP output -20 clocks maximum. Sweep Second hand output. Hour Strike Capability. RS-232 and RS-485 output ports
24 VAC hour strike output – configurable pulse output. Post Clock version without a clear cover provided. |
| (1) | PSTCLK-HOWARD2D-HARN; Wiring harness for large E. Howard post clock. |

ELECTRIC TIME COMPANY, INC. 97 WEST STREET - MEDFIELD, MA USA 02052
PHONE 508-359-4396 - FAX 508-359-4482 SALES@ELECTRICTIME.COM
[HTTP://WWW.ELECTRICTIME.COM](http://WWW.ELECTRICTIME.COM)

Note: You need to ensure you have adequate dial-to crystal spacing so the clock hands don't touch the protective crystal (should be min. of 1-1/2").

All of the above for the net (BUY) price of \$2,583.00, plus shipping and handling. This price does not include any sales taxes or installation.

On stock items we require payment in advance or City Purchase Order. We also honor Visa, Discover, Master Card and American Express. Shipment is typically from stock, approximately 1 week after receipt of purchase order and release, F.O.B., Medfield, MA. Please see enclosed Standard Terms and Conditions of Sale.

If I can be of any further assistance please let me know.

Sincerely,

Brandie Morris

Brandie Morris
Director of Marketing
blm@electrictime.com

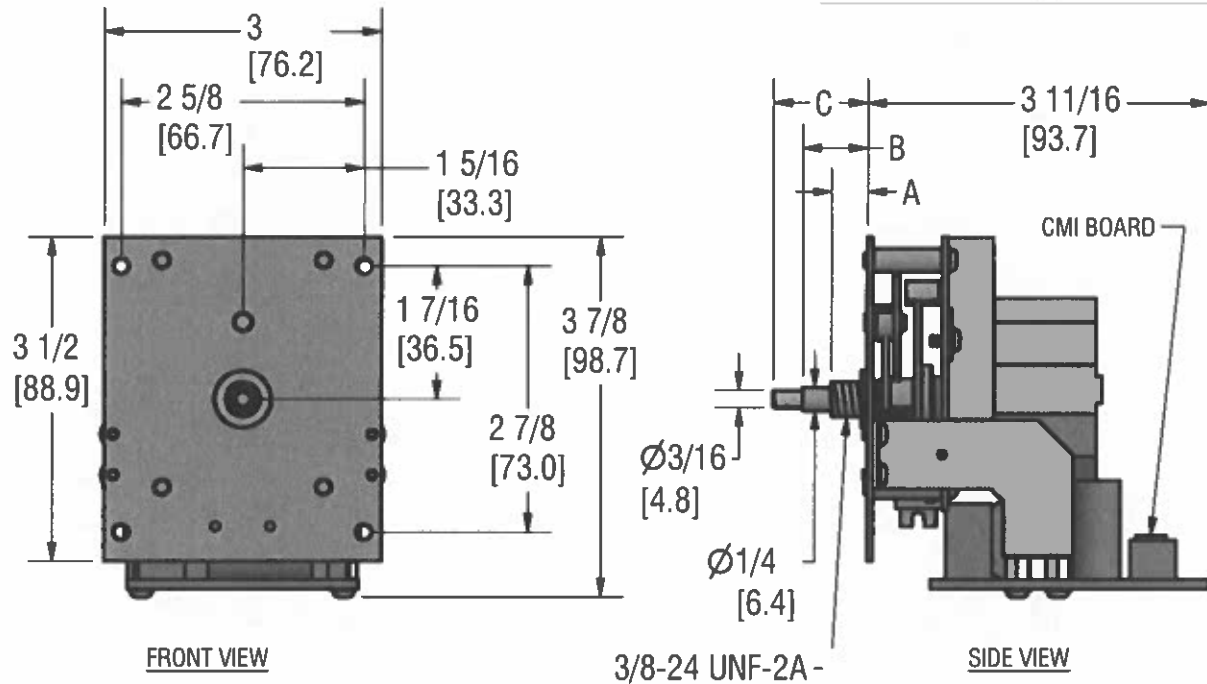
H TYPE MINUTE IMPULSE MOVEMENT

DS-479C

97 West Street, Medfield, MA 02052

p: 508.359.4396 f: 508.359.4482

www.electrictime.com

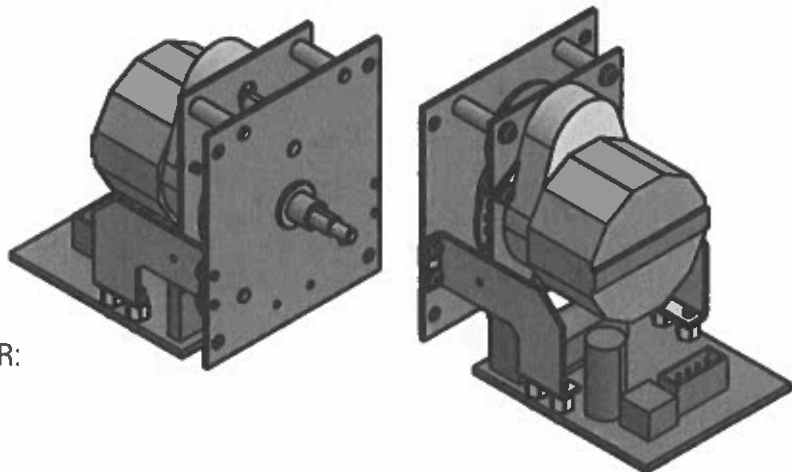


MECHANICAL SPECIFICATIONS

- UP TO $\phi 30"$ [760] DIAL WITH UNPROTECTED HANDS (INDOORS ONLY)
- CONSULT ELECTRIC TIME CO. FOR RECOMMENDED MOVEMENT AND HAND MOUNTING PROCEDURES
- APPROXIMATE WEIGHT = 1LB

ELECTRICAL SPECIFICATIONS

- 24VAC-50/60 Hz-150mA-2.5W (MI MOTOR: 8sec/min RUN TIME)
- ALTERNATING DRIVE SIGNAL MINUTE IMPULSE OPERATION (USING ELECTRIC TIME CO. "MI" CLOCK CONTROLLER)



FRONT ISOMETRIC VIEW

REAR ISOMETRIC VIEW

*Sweep second hand version available
consult Electric Time Co.

Note: Specifications subject
to change without notice

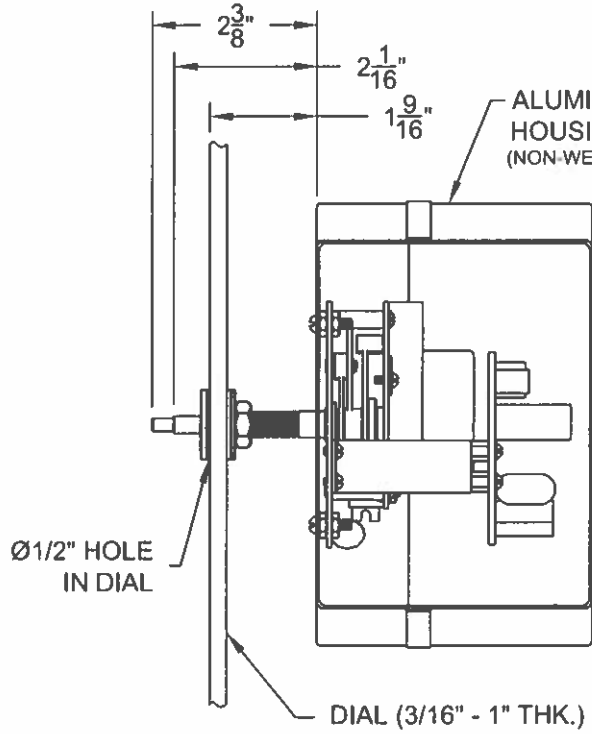
PART NUMBER: MOVMT-HMI-

	A	B	C
C4	3/8 [9.5]	11/16 [17.5]	1 1/32 [26.2]
C6	27/32 [21.4]	1 13/32 [35.7]	1 7/8 [47.6]
C8A	1 7/8 [47.6]	2 3/16 [55.6]	2 1/2 [63.5]

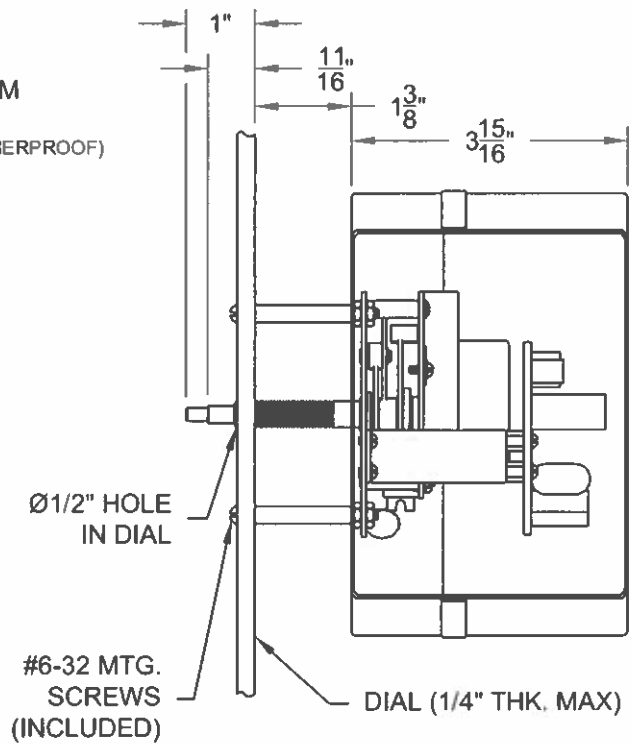
ALL DIMENSIONS INCHES [MILLIMETERS]

FOR INDOOR & OUTDOOR USE

SHMI MOVEMENT ASSEMBLIES



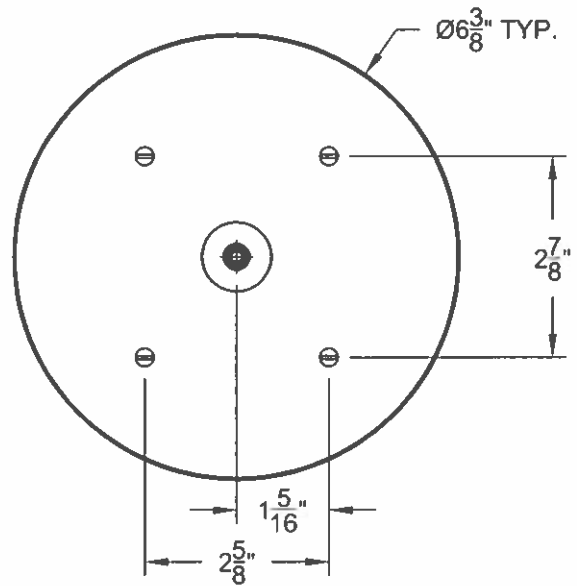
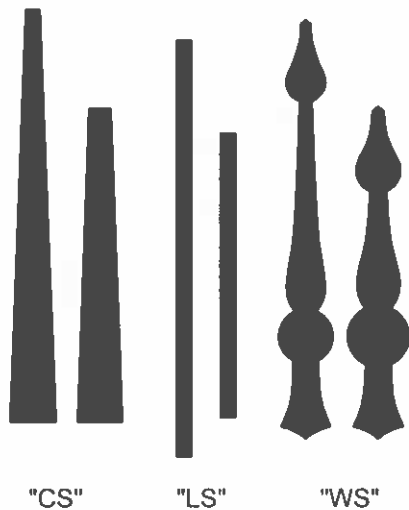
CENTER MOUNT
(CLOCKS UP TO Ø30")



4H MOUNT
(CLOCKS UP TO Ø30")

- 1) FOR INDOOR & OUTDOOR USE
- 2) MOV'T HOUSING NON-WEATHERPROOF
- 3) 99B-MI CLOCK CONTROLLER REQUIRED

STANDARD CLOCK HANDS
(MATTE BLACK POLYURETHANE FINISH)



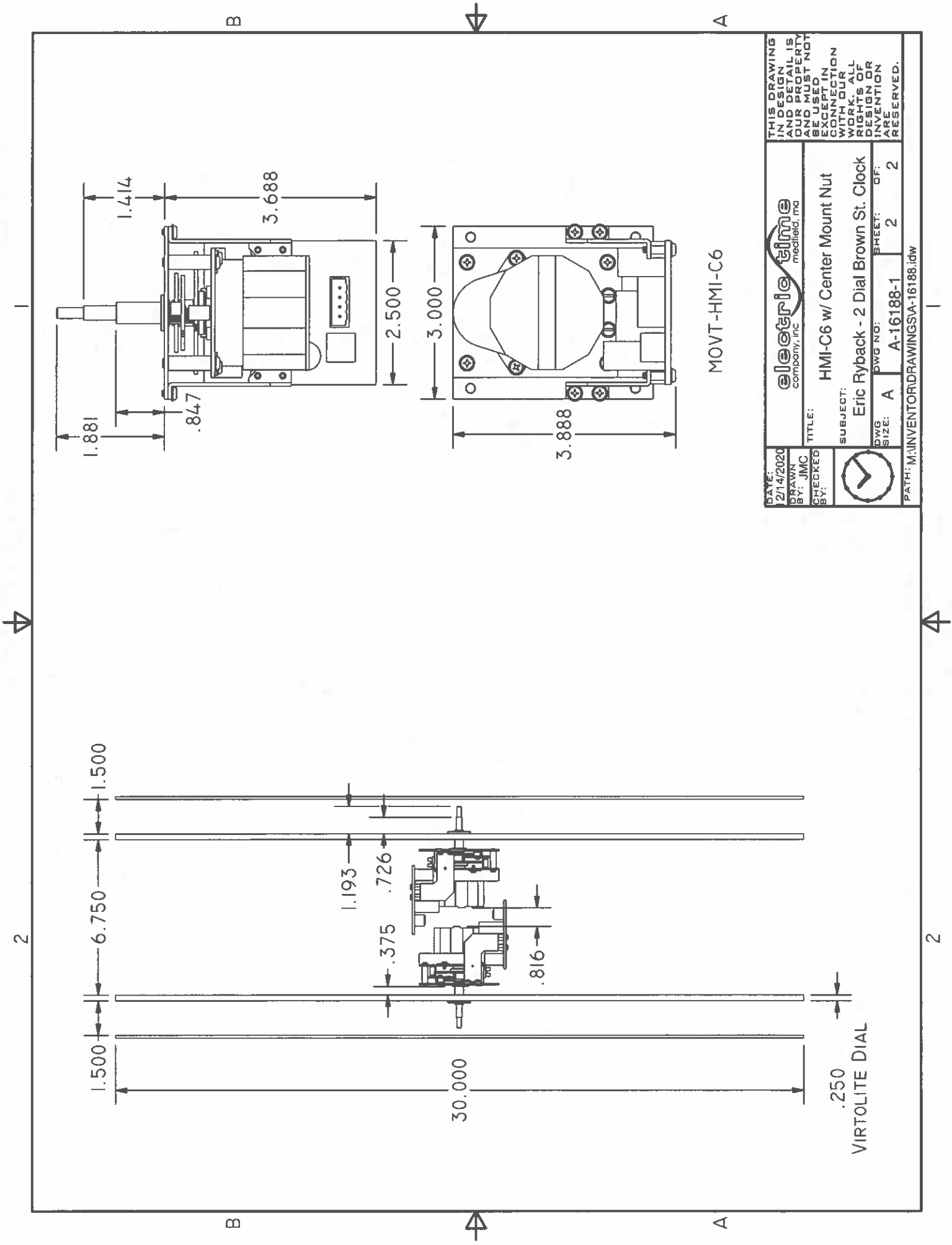
PART NUMBER DESIGNATION

SHMI-XX-XX-XX

HAND STYLE ← ↓ MOUNTING STYLE
CLOCK SIZE

Note: Specifications subject to change without notice.

EX. SHMI-WS-30-CMT = (WS HANDS, Ø30" CLOCK, CENTER MOUNT)



MOVT-HMI-C6

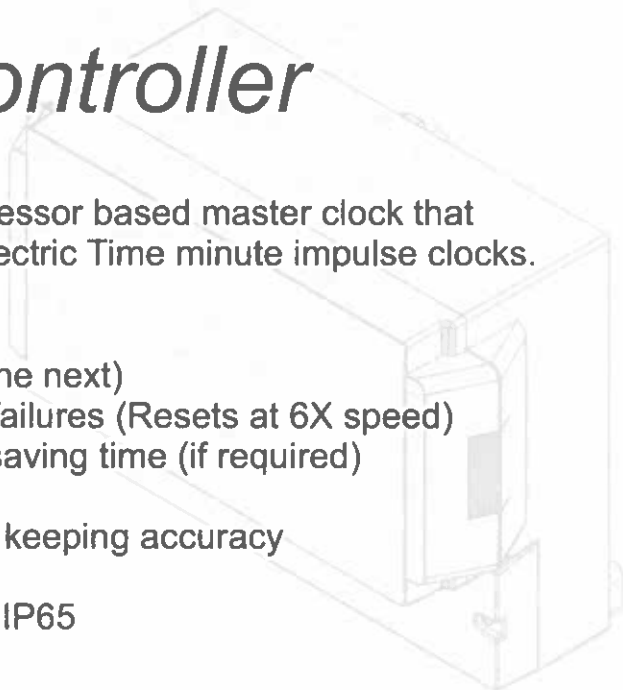
DATE: 2/14/2020	electronic company, inc medfield, ma	THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK. ALL RIGHTS OF INVENTION OR DESIGN OR PATENT ARE RESERVED.	
DRAWN BY: JMC	TITLE: HMI-C6 w/ Center Mount Nut		
CHECKED BY:	SUBJECT: Eric Ryback - 2 Dial Brown St. Clock		
	DWG SIZE: A	DWG NO: A-16188-1	SHEET OF: 2 / 2
PATH: M:\INVENTOR\DRAWINGS\A-16188.idw			

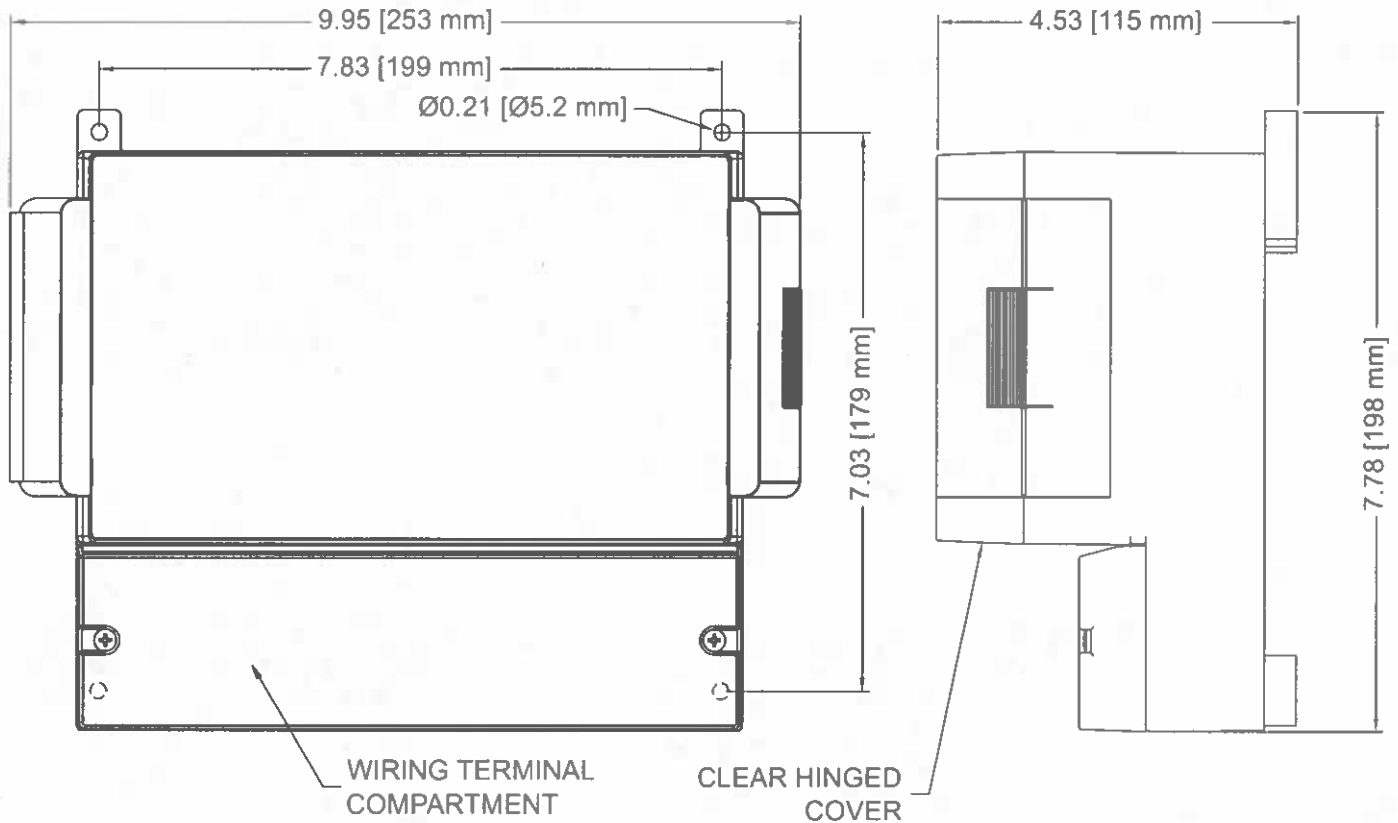


99B-MI Clock Controller

The 99B-MI Clock Controller is a microprocessor based master clock that provides completely automatic control of Electric Time minute impulse clocks.

- Provides "Minute Impulse" (MI) Control (Clock hands index from one minute to the next)
- Automatically resets clocks after power failures (Resets at 6X speed)
- Automatically resets clocks for daylight saving time (if required)
- Precision Quartz Time Base
- Optional GPS interface for ultimate time keeping accuracy
- 10 Year Battery Backup for time base
- For indoor or outdoor use - Protected to IP65
- ETL listed to UL 863



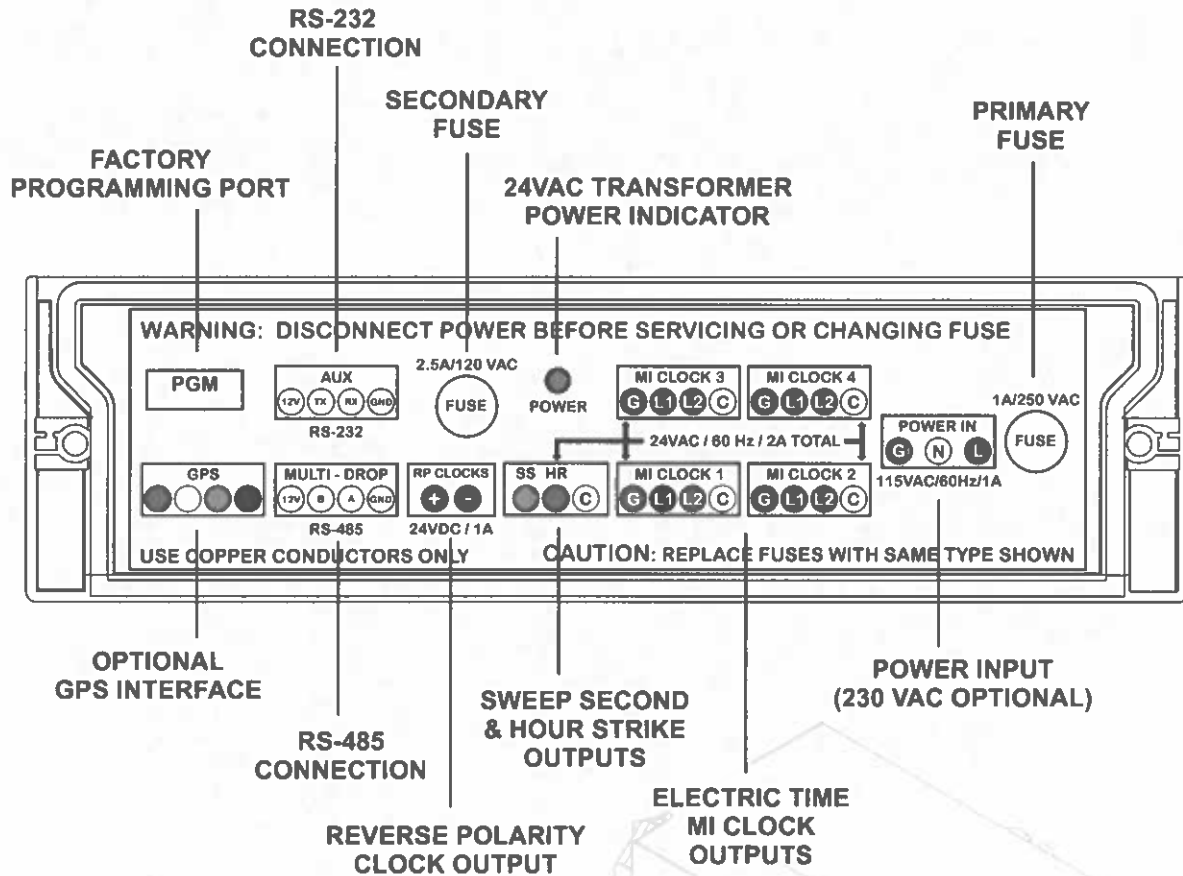


DIMENSIONS IN INCHES [MILLIMETERS]

99B-MI Specifications

Input Power	115VAC/50 or 60Hz/1A or 230VAC/50 or 60Hz/0.5A (Factory Preset)
Clock Outputs	<p>24VAC Minute Impulse</p> <ul style="list-style-type: none"> • Controls up to (4) Minute Impulse (MI) Clocks <p>24VDC Reverse Polarity</p> <ul style="list-style-type: none"> • Controls up to (20) Reverse Polarity (RP) Clocks <p>24VAC Sweep Second line (continuous power)</p> <ul style="list-style-type: none"> • Controls up to (2) MI Clocks with Sweep Second Hands <p>**For multiple clock arrays, contact Electric Time to verify maximum electrical loads on 99B-MI</p>
Event Outputs	24VAC Hour Strike (configurable pulse output)
Communication	RS-232 port, RS-485 port

Terminal Compartment Layout

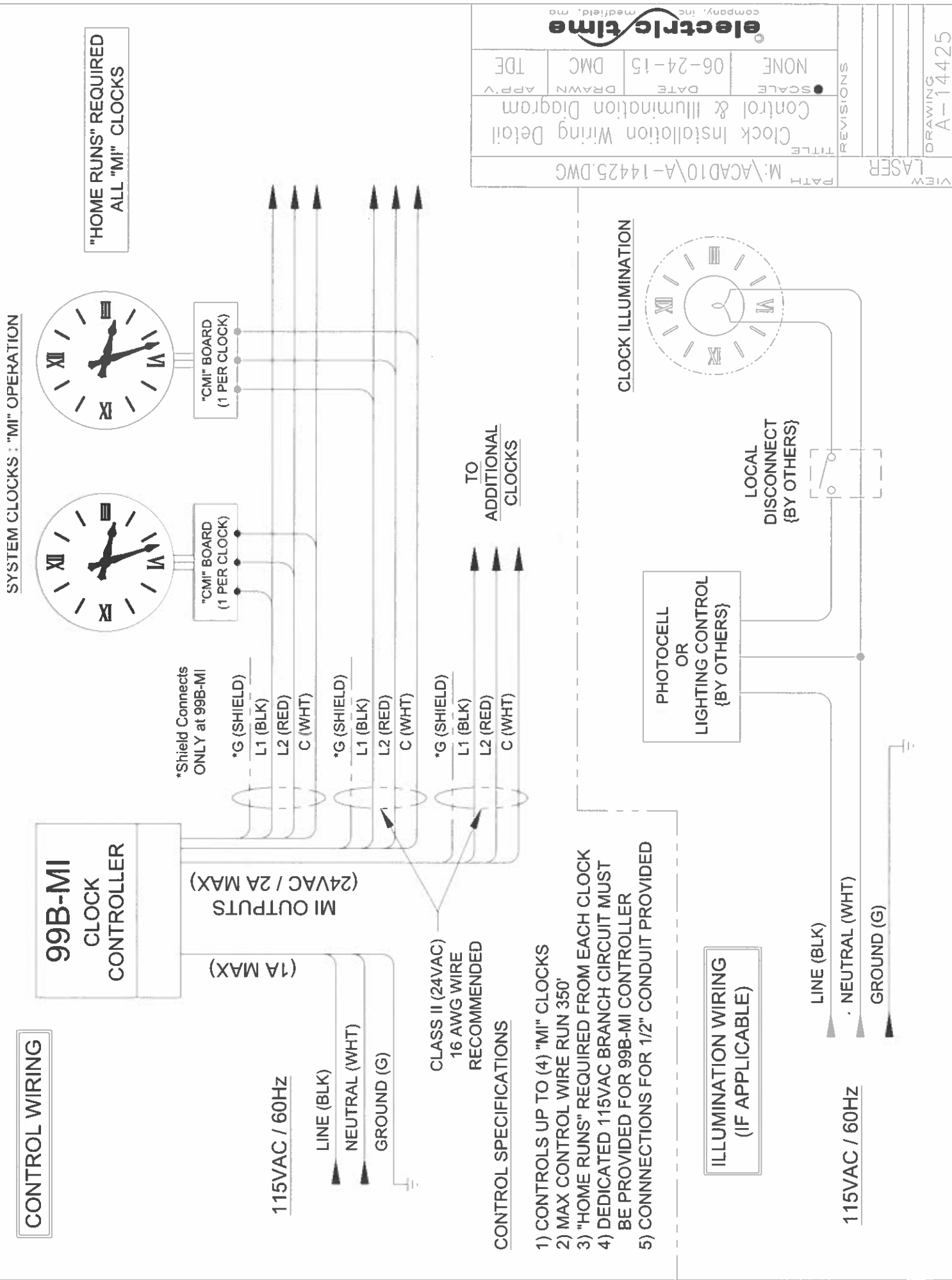


Connection for ½" conduit provided for power input & MI Outputs
Cable gland strain relief provided for all other connections

Maximum Minute Impulse control wire run 350 feet

Reference Electric Time Company Manual #274 for complete operation and installation instructions

SYSTEM CLOCKS : "MI" OPERATION



TO
ADDITIONAL
CLOCKS

CONTROL WIRING

ILLUMINATION WIRING (IF APPLICABLE)

- CONTROL SPECIFICATIONS**
- 1) CONTROLS UP TO (4) "MI" CLOCKS
 - 2) MAX CONTROL WIRE RUN 350'
 - 3) "HOME RUNS" REQUIRED FROM EACH CLOCK
 - 4) DEDICATED 115VAC BRANCH CIRCUIT MUST BE PROVIDED FOR 99B-MI CONTROLLER
 - 5) CONNECTIONS FOR 1/2" CONDUIT PROVIDED

M:\ACAD10\A-14425.DWG		TITLE Clock Installation Wiring Detail	
SCALE	DATE	DRAWN	APP'V
NONE	06-24-15	DMC	TDE
REVISIONS		company, inc. medfield, ma	
VIEW		DRAWING	
LASER		A-14425	

Standard Terms & Conditions of Sale

97 West Street, P.O. Box 466

Medfield, MA 02052 USA

(p) 508.359.4396 (f) 508.359.4482

www.electrictime.com

TAXES Unless otherwise stated, prices are exclusive of applicable sales, excise or similar taxes of federal, state or local government. As a Massachusetts corporation, we collect only Massachusetts taxes. Any other applicable taxes must be reported and paid directly by the purchaser.

INSURANCE Any insurance requirements made by you which result in an expense to Electric Time Co., Inc., will be in addition to any published or quoted prices. Copies of insurance certificates are available on request. To be named as an additional insured for a specific project, there will be an additional \$250.00 one-time charge.

PRICES All prices are in U.S. dollars and payment is to be in U.S. dollars. Unless otherwise stated, if we provide a written quotation, we hold quoted prices for 90 days. Prices are subject to change without notice. It is our policy not to review and execute contracts for orders under \$25,000.

SHIPMENTS Unless otherwise stated, all shipments are made F.O.B., Medfield, MA, USA. All quoted lead times are approximate based upon current and projected work loads. Shipments will be made the least expensive and fastest way, taking into consideration the delivery and urgent need of your order, unless otherwise stated on your order. Prepaid freight charges will be added to invoices.

CLAIMS Upon acceptance from Electric Time Co., Inc. by the carrier, the material becomes the property of the consignee. All claims for damage, breakage or loss, concealed or obvious, must be made to the carrier by the consignee. Claims of short shipment must be made to Electric Time Co., Inc. within five (5) days of receipt of material.

PAYMENT Orders under \$1,000.00 will require full payment with order. Since all the equipment we manufacture is custom built, we require a 40% deposit on any order over \$1,000.00. To establish an account with us, we require three credit references and the name of your bank with full addresses. If you do not care to open an account, we can ship upon receipt of final payment. All payments are due NET 10 days upon receipt of invoice. Final payment is due within 30 days after shipment of clocks invoiced. After 30 days, there will be a 1-1/2% interest charge per month on any unpaid balance. Minimum invoice charge is \$55.00. For international sales, payment is to be made by wire transfer.

WARRANTY All equipment is sold subject to the mutual agreement that it is warranted by Electric Time Co., Inc. to be free from defects of material and construction, but our liability in connection with it shall be limited to replacing or repairing without charge at our factory any material or construction defects which become apparent within three years from the date on which new equipment is shipped, that we shall have no liability for damages of any kind arising from the installation and/or use of the apparatus by anyone, and that the purchaser by the acceptance of the equipment will assume all liability for any damages which may result from its use or misuse by the purchaser, his or its employees or by others. There is no guarantee or warranty of liability except as here stated.

RETURNS Since most of our clocks are custom built, in general, returns are not accepted. Standard stock items may be returned for credit, subject to inspection and acceptance, if prior authorization has been obtained from Electric Time Co., Inc. There will be a 20% restocking charge on all standard catalog items.

FINISHES Our standard paint colors are matte black, off-white, bright-white, satin aluminum, medium bronze (matches Duranodic #312), dark bronze (matches Duranodic #313), forest green, gold, blue and red. Other colors and finishes are available at additional cost.