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***SECTION 4***  
***PRICES TO INCLUDE***

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## PRICES TO INCLUDE

### PART 1 - GENERAL

Any work shown on the plans or required in the specifications but not paid for separately as a bid item shall be included in the cost of other bid items. The amount bid for each Bid Item shall include the following:

- 1.1 All labor, materials, tools, equipment, and transportation necessary for the proper execution of the work in accordance with the Contract Documents.
- 1.2 All assistance required by the Engineer to verify compliance with the Contract Documents, including measuring for final pay quantities.
- 1.3 Project coordination and scheduling.
- 1.4 Detailed breakdown of lump sum bid items as requested by the Engineer.
- 1.5 All provisions necessary to protect workmen, the general public, and property along the work in accordance with the Contract Documents.
- 1.6 Protection and/or replacement of existing property corner monuments.
- 1.7 Record drawings of the installed location of all underground electrical conduit, sewers, tees, wyes, laterals, etc.
- 1.8 Reimbursement to Owner for costs of re-inspection or re-testing of any work not installed in compliance with the Contract Documents.
- 1.9 The "Construction and Material Specifications" of the State of Ohio Department of Transportation (ODOT), 2019 edition, current ODOT supplemental specifications, and current ODOT standard drawings shall govern work and materials which are not specified or modified herein or on the project Contract Drawings. All references to "the Department" shall be changed to "the Owner or his Representative." The project Contract Drawings and Specifications, in the event of a discrepancy, shall supersede the ODOT Specifications.

The absence of an "As Per Plan" designation on some item descriptions in the proposal for which there are clear and controlling plan notes, specifications, or other requirements does not relieve the Contractor of the responsibility to read, bid and construct those particular items in accordance with the governing plan notes, specifications, or other requirements and the Contractor shall have no basis of claim based upon an "order of precedence".

ODOT 104.02 D., 611.04, 611.12, and 611.13 shall not apply to this project.

## PART 2 - CONTRACT A – SITE WORK - ITEMS

### 2.1 BONDS AND INSURANCES, AS PER PLAN

#### Basis of Payment

A "Bonds and Insurances" item (including "Owner/Contractor Protective Policy," "All Risk Builder's Risk Insurance," and/or "Installation Floater Insurance", **and/or endorsements to fully comply with all contract requirements**) has been included in the bid proposal.

### 2.2 UNDERGROUND ELECTRIC CONDUIT ABANDONED, AS PER PLAN

#### Basis of Payment

The lump sum price shall include removal of the conduit as needed to install the proposed work. Any existing conduit not in conflict with the proposed work may be left in place. Ends of open pipe shall be capped or plugged with prefabricated caps or plugs or may be plugged with a cementitious plug.

### 2.3 BIORETENTION CELL, AS PER PLAN

#### Basis of Payment

The unit price shall include the furnishing and installation of the entire bioretention cell including field location, exploratory excavation, earth and/or rock excavation; sheeting; shoring; disposal of undesirable and excess material; all pumping required for adequate handling of underground water and/or surface water; all materials including all specified geotextile fabric, bio-soil mix, stone, sand, perforated underdrain, river stone, seeding, connection to overflow catch basin and the furnishing of all labor, materials, tools and appurtenances necessary to complete the work as specified or as shown.

### 2.4 TEMPORARY EROSION CONTROL, AS PER PLAN

#### Basis of Payment

The lump sum price shall include any and all labor, equipment, and materials including but not limited to inlet protection, silt fence, check dams, sediment traps/ponds, concrete washout pit, dust control, temporary seeding, and cleanup of streets as needed and at the direction of the Owner/Engineer to provide sediment and erosion control in accordance with the drawings and specifications and commensurate with the Contractor's means, methods, and work schedule.

### 2.5 4-INCH TO 18-INCH CONDUIT – STORM SEWER, SANITARY SEWER

#### Method of Measurement

The quantity to be paid shall be the number of linear feet installed per the plans and specifications measured by the plan difference in horizontal distance between centerlines of manholes and/or inlets; centerline of mainline pipe for transverse sewers or laterals; ends of laterals; between ends

of culvert pipe, or faces of headwalls. Any increase in installed length due to change in length of pipe or location of structures not directed by the Engineer shall not be measured for payment.

#### Basis of Payment

The unit price shall be irrespective of the depth of pipe and if not called out as a separate pay item shall include the furnishing and laying of pipe; field location, exploratory excavation, and verification of existing utilities prior to laying conduit; earth and/or rock excavation; sheeting; shoring; disposal of undesirable and excess material; all pumping required for adequate handling of flow bypassing, underground water and/or surface water; bedding; compacted backfill material; Owner's costs related to re-inspection or re-testing of failed or re-compacted backfill material; specials; bends; tees; fittings; plugs; stoppers; cleanouts; bulkheads; jointing material; protection of existing trees or vegetation to be saved; protection and/or replacement of all existing utilities; connection to existing conduit or structures; internal videotaping; Owner's costs related to re-inspection or re-testing of pipe failing internal videotaping; removal and replacement of poles, posts, signs, mailboxes, paper boxes, fences, landscape timbers, guardrails, sign wiring, fixtures, or other appurtenances; surface grading; temporary pavement; and the furnishing of all labor, materials, tools and appurtenances necessary to complete the work as specified or as shown.

## 2.6 MAINTAINING TRAFFIC

#### Basis of Payment

Payment shall be made progressively throughout the contract period in proportion to the percentage of work complete or as otherwise approved by the Engineer.

## 2.7 WATER MAIN

#### Method of Measurement

The method of measurement shall be as per ODOT 638.

#### Basis of Payment

The basis of payment shall be as per ODOT 638 with the following additions: The unit price shall be irrespective of the depth of pipe and shall include excavation, bedding, backfill, compaction, all waterline and soils testing, chlorination/disinfection, supports, thrust blocking, joint restraints, polyethylene encasement, tees, bends, reducers, plugs, caps, and all other necessary fittings.

The contractor shall not be responsible for any fees to Aqua Ohio for the water service connections except for the cost of any re-inspections or re-testing due to rework or failed testing. Also, Aqua Ohio will supply the 1.5" water meter to the contractor at no cost to the Contractor (the Owner is paying for all Aqua Ohio fees except for any re-work.)

## 2.8 ABANDON EXISTING WATER MAIN

### Basis of Payment

The lump sum price shall include trench excavation; sheeting and shoring; dewatering, including all pumping required for water in existing pipe, underground water, or surface water; support, protection and/or replacement of all existing utilities (conduit, wires, cables, poles, signs, etc.); exploratory excavation and field location of existing pipe and fittings; disposal of excess materials; cutting and removal of existing pipes; furnishing and installation of stone bedding, conduit, caps, plugs, specials, glands, megalugs, capping of existing 8-inch and 12-inch waterlines, thrust blocking, bolts, jointing material, select or premium compacted backfill material; closing all valves, removal of valve boxes, and the furnishing of all labor, materials, tools and appurtenances necessary to complete the work as specified or as shown. Coordination with Aqua Ohio for all waterline work is the responsibility of the contractor.

## 2.9 6 INCH FIRE HYDRANT ASSEMBLY

### Method of Measurement

The method of measurement shall be as per ODOT 638.

### Basis of Payment

The basis of payment shall be as per ODOT 638 with the following additions: The unit price shall also include the hydrant branch tee restrained fittings and nipples, restrained pipe between the tee and valve and/or valve and hydrant, nuts and bolts, zinc anode caps if specified, gate valve, and valve box.

## 2.10 SEEDING AND MULCHING, AS PER PLAN

### Method of Measurement

The quantity to be paid shall be the number of square yards installed per the plans and specifications measured and calculated for actual disturbed areas restored within the pay limits.

### Basis of Payment

The unit price shall include furnishing and placement of topsoil, testing of topsoil, finish grading, seed, fertilizers, lime, water, maintenance, mowing, and all else necessary to establish a grass turf over all disturbed areas to be grassed.

## 2.11 COMPLETE IRRIGATION SYSTEM

### Basis of Payment

The lump sum price shall include furnishing and installation of a complete irrigation system as shown on the plans to provide irrigation for planting beds with drip system and lawn areas with spray heads within the parking islands. The lump sum price shall include all materials including but not limited to all piping, spray heads, drip tubing, emitters, fittings, control valves, valve boxes, rain sensors, control panels and all else necessary to install a complete irrigation system.

## 2.12 CONTINGENCY / DISCRETIONARY ALLOWANCE

### Basis of Payment

A Contingency/Discretionary Allowance has been included in the bid proposal to be utilized as directed by the Engineer for unscheduled work items not included on the proposal forms or other changes in the work. Any portion of the allowance not utilized shall be credited to the Owner.

## PART 3 - CONTRACT B – BUILDING - ITEMS

Contract B – Building is a lump sum bid. The bidder shall break his lump sum bid down into the general categories of work shown on the bid form.

### 3.1 BONDS AND INSURANCES

#### Basis of Payment

A "Bonds and Insurances" item (including "Owner/Contractor Protective Policy," "All Risk Builder's Risk Insurance," and/or "Installation Floater Insurance", **and/or endorsements to fully comply with all contract requirements**) has been included in the bid proposal.

### 3.2 REF. NOS. 2 TO 15

#### Basis of Payment

The lump sum prices shall include all work including incidentals.

### 3.3 BUS SCHEDULE MONITORS

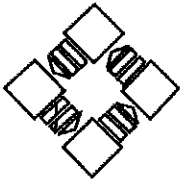
#### Basis of Payment

The lump sum price shall include the purchase of the monitoring system from the Owner's system provider, coordination, and incidental work not provided in the system provider's quote (attached hereto).

### 3.4 CONTINGENCY / DISCRETIONARY ALLOWANCE

#### Basis of Payment

A Contingency/Discretionary Allowance has been included in the bid proposal to be utilized as directed by the Engineer for unscheduled work items not included on the proposal forms or other changes in the work. Any portion of the allowance not utilized shall be credited to the Owner.



June 27, 2019

**JOB:** LAKETRAN  
Lakeland Transfer Center Project  
Project Number #18050002

**BID ITEM:** Bus Schedule Monitors – Qty: 4

S & A Systems, Inc., as an approved supplier and Original Equipment Manufacturer of the FLEETWATCH Digital Signage, is pleased to submit to you our bid for the Digital Signage as described in the above project drawings. This bid **MEETS ALL SPECIFICATIONS** with no exceptions taken. Our bid is as follows:

Full Matrix Sign (24x2) – Single Sided	\$ 8,950.00
Quantity:	x4
Total Equipment	\$35,800.00

Project Administration, Submittal Drawings & On-Site Setup, Software Training	\$ 8,760.00
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**TOTAL PROJECT BID:** **\$44,560.00**

Electrical Contractor	NOT INCLUDED
Payment and Performance Bond	NOT INCLUDED
Sales Tax	NOT INCLUDED

This bid **IS NOT TURNKEY** and does not include sign installation or the Electrical Contractor portion of work. This bid does include all software, equipment and parts as required by the above referenced specification. Final on-site work, as defined below, is included and will be performed by factory trained, factory dispatched representatives from S & A Systems, Inc.

**S & A Systems, Inc. project classification is Supplier** with factory representatives performing final low voltage terminations, system start-up, system testing, Owner personnel training and Owner training for software. S & A Systems, Inc. is not a contractor and does not hold a contractor's license in the state of Utah. S & A Systems, Inc. does not represent itself as a contractor on this project.

This bid includes a one (1) year warranty for parts, equipment, labor, maintenance and service. This bid also includes year one (1) of the Annual Software License Fee.

All equipment and parts are FOB job site.

**EXCLUSIONS:** *This bid does not include bonds, sales tax, licenses, permits, or fees of any kind. This bid does not include sign equipment installation.*

**See Page 2 (attached) for description of equipment and service included.**

This bid is good for a period of 60 days. Our firm is not a DBE/MBE or WBE firm.

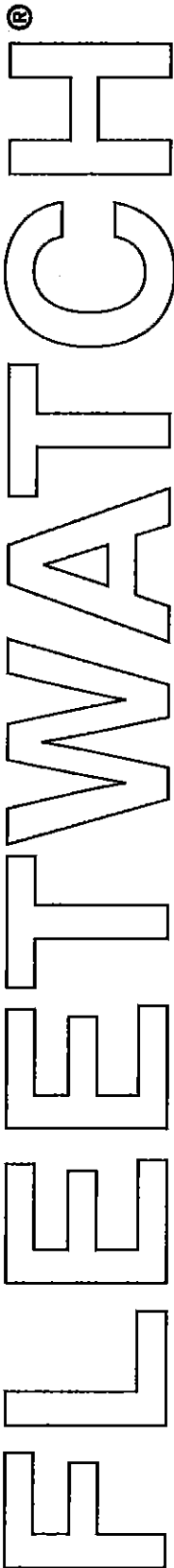
S & A SYSTEMS, INC.

Don Srygley  
President  
S & A Systems, Inc.

Continued on Page 2

FLEETWATCH<sup>®</sup>





### Project Description of Equipment and Services:

**Bus Schedule Monitors:**

### Full Matrix LED Signs (Single Sided) – Pricing Includes:

Quantity: Four (4) signs with two lines of 2" letters – FLEETWATCH Full Matrix Display

Each of Four (4) Signs will include:

- Full matrix display (24 x 2) character display
- Scrolling Route Description
- Security keyed latches
- Printed Lexan Panel
- Full Color Transit Branding line graphics in lower area of sign that includes Logos, Photos, Etc.
- Advertising Panel
- Speaker
- ADA Push Button for Text-to-Speech
- Quick change clear protective overlay panel
- Shelter Mount
- Interface to AVL system to capture real-time Bus Arrival information
- Wi-Fi Card for connection to server for real-time data transit data
- On-site set up, testing, and training

**Full Matrix LED Signs (Single Sided) – Specifically Excluded:**

- Installation of conduit and wiring to bring 115 VAC to sign
- Installation of the sign itself
- Poles and/or other supports are not included

≈33"

21 CSUB/Bak Due  
41 Valley Plaz 9

≈18"

Mt Vernon/Niles

**GET bus**  
GOLDEN EMPIRE TRANSIT DISTRICT



≈33"

10 Avalon Sta Due  
66 Montebello 9

≈18"

9th / Broadway

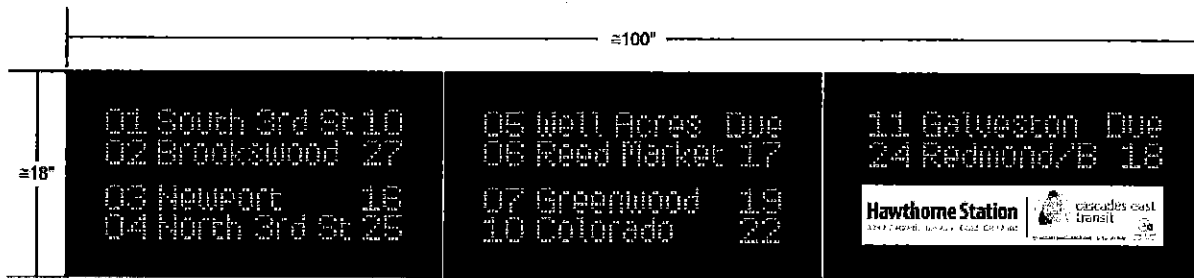
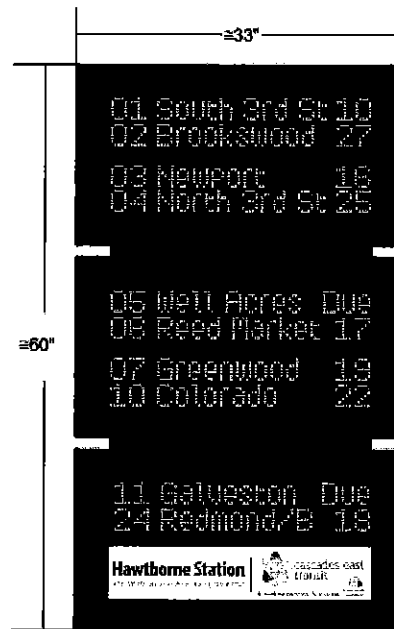
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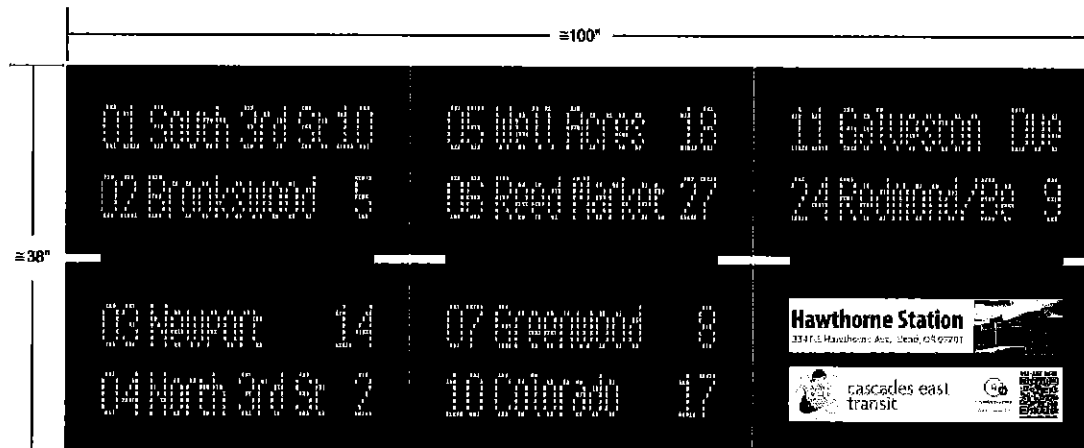
**Metro**



**HAWTHORNE STATION OPTION 1:**  
3x1 Vertical Full Matrix Array  
(shown with 2 - 2" lines of text per slot)



**HAWTHORNE STATION OPTION 2:**  
1x3 Horizontal Full Matrix Array  
(shown with 2 - 2" lines of text per slot)



**HAWTHORNE STATION OPTION 3:**  
2x3 Horizontal Full Matrix Array  
(shown with 1 - 3" line of text per slot, also configurable with 2 - 2" lines of text per slot)

# Montrose Blvd @ Westheimer Rd

Stop ID: 3328



RideMETRO.org | 713-635-4000 |

STOP ID SPACE RT#

Text: **3328 56** to **697433**  
for real-time bus arrival information

56 TMC TC  
56 TMC TC

Due  
20

Montrose Blvd @  
Westheimer Rd

Stop ID: 3328



RideMETRO.org | 713-635-4000 |

Text: **3328 56** to **697433**  
for real-time bus arrival information

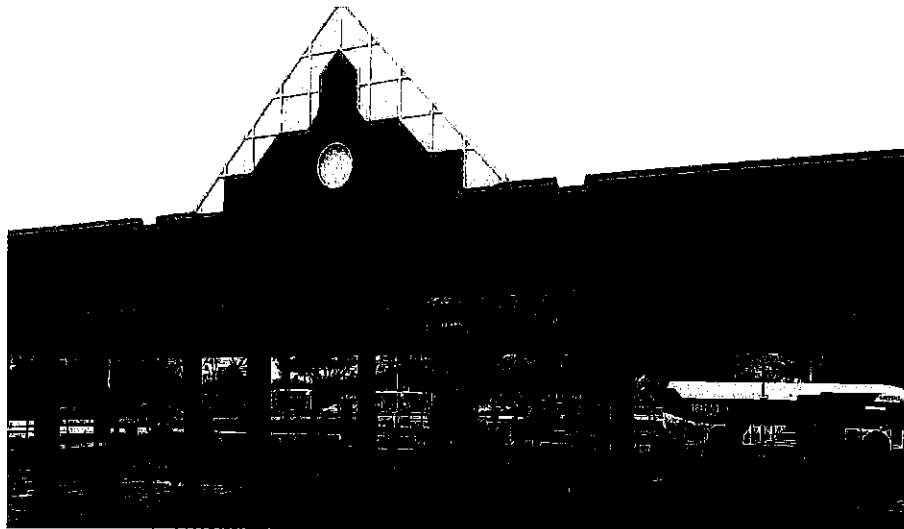




A-29 Northline TC 8

Kashmere Transit Center  
STOP ID: 76

**METRO**  
RideMETRO.org | 713-835-4000 | 



# FLEETWATCH<sup>®</sup> MODEL RTS-MS

Fleet Information Technology

by **SA SYSTEMS, INC.**

**Single or Double Sided 1-2 Line  
Full Matrix LED Transit Center Sign**

## Product Features



FLEETWATCH<sup>®</sup> DOUBLE SIDED FULL MATRIX SIGN WITH 3" LETTERS

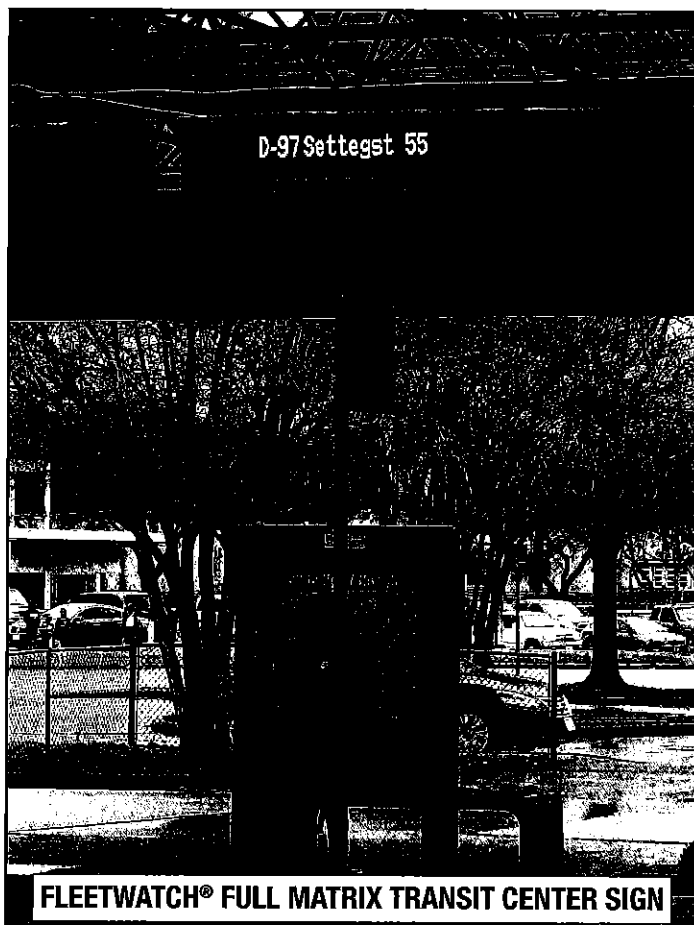
- **up to 3 inch high characters**
- **Scrolling Route Description**
  - 1 line 3" or 2 line 2" display
  - Scrolling message or public service messages
- **New Generation Low Power LEDs**
- **Rugged Security Features**
  - Security keyed latches
  - Damage resistant powder coated aluminum enclosure
- **Printed LEXAN<sup>™</sup> Panel for Agency Branding Line (if no display on 2nd line)**
  - Full color with agency graphics, logos, photos, etc.
  - Advertising panels can be interchanged for additional revenue
- **Quick Change Clear Protective Overlay Panel**
  - Can be changed easily without opening enclosure in the event of damage, graffiti, or ad updates
- **Standard 115VAC Power**
  - Uses readily available industry standard 115V AC power

All FLEETWATCH Real Time Sign enclosures and subcomponents are fully-sealed and rainproof built to an IP 66 / NEMA 4X or above standard to ensure that the sign is protected from the harshest of environmental conditions like rain, snow, sleet, hail, humidity, dust, etc.

The minimum font size of the LED numbers and letters is 2" (the standard ADA requirement for viewing height up to 10 feet), featuring scrolling, configurable route description text.

Any number of routes can be displayed on the sign, scrolling through each route for a configurable number of seconds. Time, Date, Current Weather Conditions, and Public Service Announcements can also be shown on the sign on a recurring, periodic, scheduled, or ad-hoc basis via the web-portal.

Protective overlays are designed to be changed out with just a few screws. The quick-replace, vandal resistant protective overlay also makes it easy to replace in the field in the event of graffiti or damage.



FLEETWATCH<sup>®</sup> FULL MATRIX TRANSIT CENTER SIGN

# FLEETWATCH® MODEL RTS-MS FULL MATRIX LED SIGN STANDARD FEATURES

<b>Display:</b>	16x144 (2304) LED Matrix with shatterproof polycarbonate cover configured as 1 line, 3" character display or 2 line, 2" character display
<b>Enclosure:</b>	Powder coated aluminum with weather-tight seal and three security latches
<b>Custom Branding:</b>	Option of one custom printed polycarbonate panel for agency branding on second line, or second line Full Matrix Display for additional information displayed
<b>Communications:</b>	Cellular, Wi-Fi, or direct network connection
<b>Power Circuit:</b>	12 VDC, 2.5 Amps from 115 VAC
<b>Operating Temp. Range:</b>	-40°F to 185°F (-40°C to 85°C)

## ADDITIONAL COMMUNICATION OPTIONS\*

The standard model RTS-MS matrix sign comes equipped with a built-in cellular modem for connecting to the internet/CMS\*.

**\*SIGN REQUIRES A MONTHLY SUBSCRIPTION FOR CONTENT MANAGEMENT SOFTWARE (CMS) AS WELL AS A MONTHLY CELL PLAN**

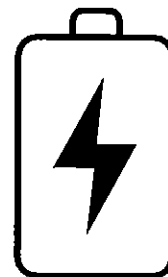
### Optional networking capabilities\*

For an additional charge, the RTS-MS may be upgraded to use an Ethernet or Wi-Fi connection to communicate to the CMS.

## ADDITIONAL POWER OPTIONS\*

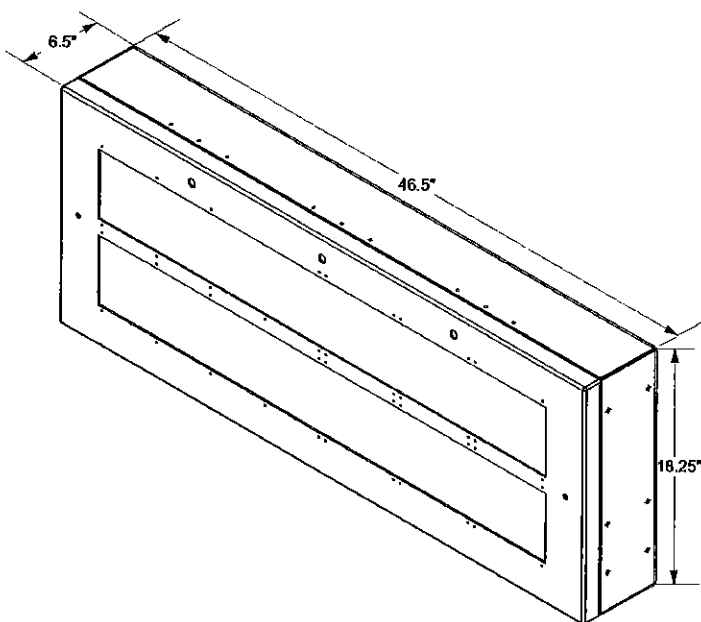
### Rechargeable Battery Kit Option\* (e.g., Transit Center Light Power)

Some locations may only have lighting power circuits which provide power only at night. By adding a charge controller and batteries, the sign can charge at night and then run off of the batteries during the day.



**\*available at additional cost**

## DIMENSIONS



**46.5" W x 18.25" H x 6.5" D**



APR 2019