



**AGENDA**  
**CITY COUNCIL OF THE CITY OF MORENO VALLEY**  
**MORENO VALLEY COMMUNITY SERVICES DISTRICT**  
**CITY AS SUCCESSOR AGENCY FOR THE**  
**COMMUNITY REDEVELOPMENT AGENCY OF THE CITY OF**  
**MORENO VALLEY**  
**MORENO VALLEY HOUSING AUTHORITY**

**August 19, 2014**

**STUDY SESSION – 6:00 P.M.**

**City Council Study Sessions**

First & Third Tuesdays of each month – 6:00 p.m.

**City Council Meetings**

Second & Fourth Tuesdays of each month – 6:00 p.m.

**City Council Closed Session**

*Immediately following Regular City Council Meetings and  
Study Sessions, unless no Closed Session Items are Scheduled*

**City Hall Council Chamber - 14177 Frederick Street**

*Upon request, this agenda will be made available in appropriate alternative formats to persons with disabilities, in compliance with the Americans with Disabilities Act of 1990. Any person with a disability who requires a modification or accommodation in order to participate in a meeting should direct such request to Mel Alonzo, ADA Coordinator at 951.413.3705 at least 48 hours before the meeting. The 48-hour notification will enable the City to make reasonable arrangements to ensure accessibility to this meeting.*

Victoria Baca, Mayor Pro Tem  
Richard A. Stewart, Council Member

Jesse L. Molina, Mayor

George E. Price, Council Member  
Vacant \_\_\_\_\_, Council Member

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**\*THE CITY COUNCIL RECEIVES A SEPARATE STIPEND FOR CSD MEETINGS**

**STUDY SESSION - 6:00 PM  
AUGUST 19, 2014**

**CALL TO ORDER**

**PLEDGE OF ALLEGIANCE**

**INVOCATION**

**ROLL CALL**

**INTRODUCTIONS**

**PUBLIC COMMENTS ON MATTERS UNDER THE JURISDICTION OF THE CITY COUNCIL**

There is a three-minute time limit per person. Please complete and submit a BLUE speaker slip to the City Clerk. All remarks and questions shall be addressed to the presiding officer or to the City Council and not to any individual Council Member, staff member or other person.

**SPECIAL ORDER OF BUSINESS**

1. WATER CONSERVATION PRESENTATION FROM EASTERN MUNICIPAL WATER DISTRICT (EMWD) (PowerPoint) (CM/10 MINS.)
2. KEEP MORENO VALLEY BEAUTIFUL PROGRAM UPDATE (PowerPoint) (CM/10 MINS.)
3. DEPLOYMENT OF INTELLIGENT TRANSPORTATION SYSTEMS (ITS) IN MORENO VALLEY (PW/10 MINS.)
4. CITY COUNCIL REQUESTS AND COMMUNICATIONS

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August 19, 2014

(Times shown are only estimates for staff presentation. Items may be deferred by Council if time does not permit full review.)

v Oral Presentation only – No written material provided

**\*Materials related to an item on this Agenda submitted to the City Council/Community Services District/City as Successor Agency for the Community Redevelopment Agency/Housing Authority after distribution of the agenda packet are available for public inspection in the City Clerk's office at 14177 Frederick Street during normal business hours.**

## **CLOSED SESSION**

A Closed Session of the City Council, Community Services District, City as Successor Agency for the Community Redevelopment Agency of the City of Moreno Valley or Housing Authority will be held in the City Manager's Conference Room, Second Floor, City Hall. The City Council will meet in Closed Session to confer with its legal counsel regarding the following matter(s) and any additional matter(s) publicly and orally announced by the City Attorney in the Council Chamber at the time of convening the Closed Session.

- **PUBLIC COMMENTS ON MATTERS ON THE CLOSED SESSION AGENDA UNDER THE JURISDICTION OF THE CITY COUNCIL**

There is a three-minute time limit per person. Please complete and submit a BLUE speaker slip to the City Clerk. All remarks and questions shall be addressed to the presiding officer or to the City Council and not to any individual Council member, staff member or other person.

The Closed Session will be held pursuant to Government Code:

1      **SIGNIFICANT EXPOSURE TO LITIGATION PURSUANT TO PARAGRAPH (2) OR (3) OF SUBDIVISION (D) OF SECTION 54956.9**

Number of Cases: 5

2      **SECTION 54956.9(d)(4) - CONFERENCE WITH LEGAL COUNSEL - INITIATION OF LITIGATION**

Number of Cases: 5

## **REPORT OF ACTION FROM CLOSED SESSION, IF ANY, BY CITY ATTORNEY**

## **ADJOURNMENT**

## **CERTIFICATION**

I, Jane Halstead, City Clerk of the City of Moreno Valley, California, certify that the City Council Agenda was posted in the following places pursuant to City of Moreno Valley Resolution No. 2007-40:

City Hall, City of Moreno Valley  
14177 Frederick Street

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Moreno Valley Library  
25480 Alessandro Boulevard

Moreno Valley Senior/Community Center  
25075 Fir Avenue

Jane Halstead, CMC,  
City Clerk

Date Posted: August 13, 2014

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EMWD PowerPoint Presentation  
to be provided under  
separate cover.

## City Conservation Efforts





# City Conservation Efforts

## Special Districts:

- AB 1881 – Water efficient irrigation systems
- Using EMWD Rebate Programs
  - Conversion from potable to reclaimed water
  - Water efficient nozzles
  - Turf rebate
- Regularly perform irrigation audits
- Water efficient irrigation controllers
- Report a broken Sprinkler
  - New mobile app and link on website

## Parks and Community Services:

Reduced water usage by 10%

- Report leaks and Irrigation breaks
- Monitor irrigation schedule

- New parks use recycled water and drip irrigation

Low flow fixtures installed at new parks and remodeled restrooms

- Upgraded 75% of controllers to smart systems



# CITY OF MORENO VALLEY

## Keep Moreno Valley Beautiful Update

Presented By: Julie Reyes, Sustainability/Intergovernmental  
Programs Manager

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Item No. 2.



# KAB OVERVIEW

## What is Keep America Beautiful (KAB)?

- Nationwide community action and education organization
- Focuses on litter prevention, recycling, beautification and improvement of public spaces
- Mission – Inspire and engage residents to improve their community environment



# KMVB OVERVIEW

## **KAB Affiliate:**

- City Council established Keep Moreno Valley Beautiful (KMVB) on June 26, 2012
- KAB Certified on November 12, 2013

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## **Affiliate Benefits:**

- Leader in environmental stewardship
- Eligible for grant funds
- National and state support

Item No. 2.



# PROGRAM DETAILS

- **Program Costs:**

- Initial Start Up Fee - \$4,000
- Annual Cost - \$350

- **KMVB Links Numerous Programs:**

- Bulky Item Cleanup Event
- Earth Day Cleanup/Mulch Event
- Graffiti Removal
- Illegal Dumping
- Litter Abatement Partnership with WM
- Weekend Weed & Litter Abatement



# FEET ON THE STREET

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Item No. 2.



# LOOKING AHEAD

- Litter Prevention Program
  - Education & Outreach Campaign
  - Adopt-A-Street
    - Council Approval in September
- Beautification Awards
  - Residential & Commercial
    - Implementation Q1 - 2015
- Funding Opportunities
  - Litter Abatement
  - Illegal Dumping







# QUESTIONS

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**Item No. 2.**

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APPROVALS	
BUDGET OFFICER	<i>me</i>
CITY ATTORNEY	<i>SMB</i>
CITY MANAGER	<i>d</i>

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## Report to City Council

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**TO:** Mayor and City Council

**FROM:** Ahmad R. Ansari, P.E., Public Works Director/City Engineer

**AGENDA DATE:** August 19, 2014

**TITLE:** Deployment of Intelligent Transportation Systems (ITS) in Moreno Valley

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### **RECOMMENDED ACTION**

Recommendation:

1. Receive and file report, and provide direction as appropriate.

### **SUMMARY**

City staff will brief the City Council on activities related to improving traffic signal operations within Moreno Valley through the deployment of Intelligent Transportation Systems (ITS). Collaborative efforts between Public Works, Technology Services, and the Police Department will be highlighted, as well as associated costs of deploying and operating the system.

### **DISCUSSION**

In 2009, the City completed a master plan for deployment of an Intelligent Transportation System (ITS) in Moreno Valley to support active traffic management for the purpose of improving mobility. Shortly after completion of the master plan, the City selected Kimley-Horn and Associates to supply the City's new Arterial Traffic Management System (ATMS) software platform. This software has been delivered and is used to manage traffic at eight intersections along Alessandro Boulevard and Cactus Avenue. These arterials were selected for a pilot program due to their proximity to City Hall and the presence of existing traffic signal communication conduit. Having successfully completed the pilot deployment, staff proceeded to design and bid the ITS

Deployment Phase 1A project, which is currently under construction and will add 10 intersections to the new system along Frederick Street and Alessandro Boulevard.

Many of the City's controller cabinets containing equipment for traffic signal functionality are between 20 and 30 years old. This equipment is not only functionally obsolete and unable to be integrated with the City's new traffic management software, but also affects available resources as the equipment regularly results in maintenance calls due to malfunction and/or failure.

The City has received over \$2 million in federal and local grants to continue deployment of the ITS infrastructure. The planned project, named ITS Deployment Phase 1B, would replace 43 obsolete traffic signal controllers along the City's most heavily traveled arterials, including Ironwood Avenue, Heacock Street, and Perris Boulevard. The project will make use of existing traffic signal interconnect conduit for new fiber optic cable to minimize construction cost. The new fiber optic backbone will not only provide state-of-the-art traffic management capability, but also high-bandwidth communication to City facilities near the project and increased reliability of the Police Department camera system. Staff is planning to recommend acceptance of this grant to the City Council at an upcoming meeting.

Staff is currently bidding the construction of a Transportation Management Center (TMC) within City Hall. The TMC is planned in space currently occupied by a conference room adjacent to the front lobby of City Hall. Its placement is intended to demonstrate the City's commitment to maintaining quality mobility on the arterial network. The TMC is scheduled for completion at the end of 2014. In the interim, the ATMS is capable of being operated from any computer on the City's network, which is currently operated at certain staff workstations. Additionally, staff is operating a satellite TMC in the traffic maintenance modular building at the Corporate Yard.

Lastly, a complementary project, Dynamic Traveler Alert Message Boards, is currently being planned to provide three dynamic (changeable) message signs for displaying travel-related messages. Staff intends to have this project designed concurrently with the ITS Deployment Phase 1B project, and to minimize design cost and maximize constructability. This project will be placed on future agendas for both Traffic Safety Commission and City Council to review and approve design aesthetics, locations and message policy before implementation.

### **FISCAL IMPACT**

The capital cost of deploying ITS technology is funded largely by grants. The City's share of capital costs is limited to providing matching funds (sources to be determined on a project-by-project basis). *The costs to operate and maintain the deployed systems will be funded, in their entirety, by the Transportation Division.* No additional General Fund appropriations will be required to operate this system on an ongoing basis.

Certain factors can be expected to increase or decrease future operating costs. Increases are due to funding equipment replacement accounts and incremental

maintenance activity. Decreases are due to use of outside funding to replace equipment that is beyond its service life. If the equipment was replaced using City funds, the cost would be approximately \$15,000 per cabinet. The next grant-funded project the City Council will consider, ITS Deployment Phase 1B, would replace 43 cabinets, saving the City approximately \$565,000 (net after contributing 12% match). This project will also save an estimated \$12,000 in annual maintenance costs.

The following table summarizes expected new costs and savings within the Traffic Signal Maintenance TMC and ITS Phase 1B projects, all of which staff expects would impact the General Fund:

<b>Estimated New Expenses (Maintenance and Replacement)</b>	<b>Estimated New Savings</b>
Video monitors at TMC: \$2,500 per year	Replace obsolete traffic signal controller cabinets using grant funds saves \$565,000 (one-time savings)
Fiber optics: \$14,000 per year	Fewer after-hours call-outs for new traffic signal controllers saves \$12,000 per year
Traffic signal control software maintenance agreement: \$21,000 per year (commences in August 2016—first two years included in current agreement)	TMC allows for less time to be spent manually adjusting traffic signal controller timing. Budget savings not quantifiable but would allow staff to spend more time on customer care.
Newly replaced traffic signal controller cabinets: \$21,500 per year	Total savings: \$ 565,000 one-time + \$12,000 annually
CCTV cameras: \$14,000 per year	
Total additional annual cost: \$73,000 (commences upon project delivery—mid-2016)	

**CITY COUNCIL GOALS**

**Public Facilities and Capital Projects.** Ensure that needed public facilities, roadway improvements, and other infrastructure improvements are constructed and maintained.

**NOTIFICATION**

Publication of City Council Agenda

**ATTACHMENTS**

Attachment 1: PowerPoint Presentation

Prepared By:  
John Kerenyi, P.E.  
Senior Engineer

Concurred By:  
Rick Teichert  
Chief Financial Officer/City Treasurer

Department Head Approval:  
Ahmad R. Ansari, P.E.  
Public Works Director/City Engineer

Concurred By:  
Eric Lewis, P.E., T.E.  
City Traffic Engineer/  
Transportation Division Manager

# Intelligent Transportation Systems *in Moreno Valley*

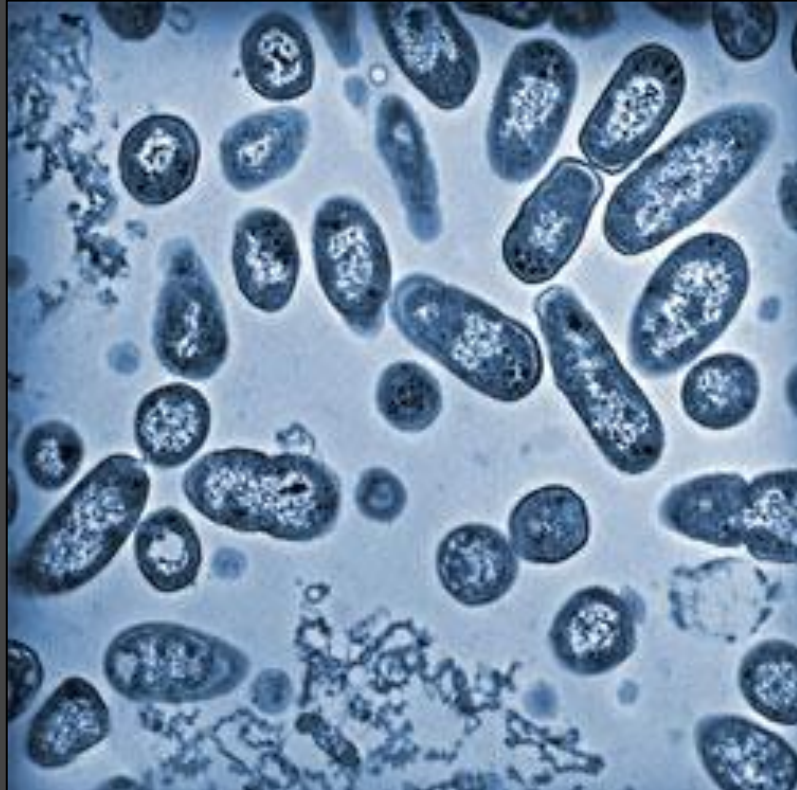
Attachment 1  
Presented to  
City Council  
August 19, 2014



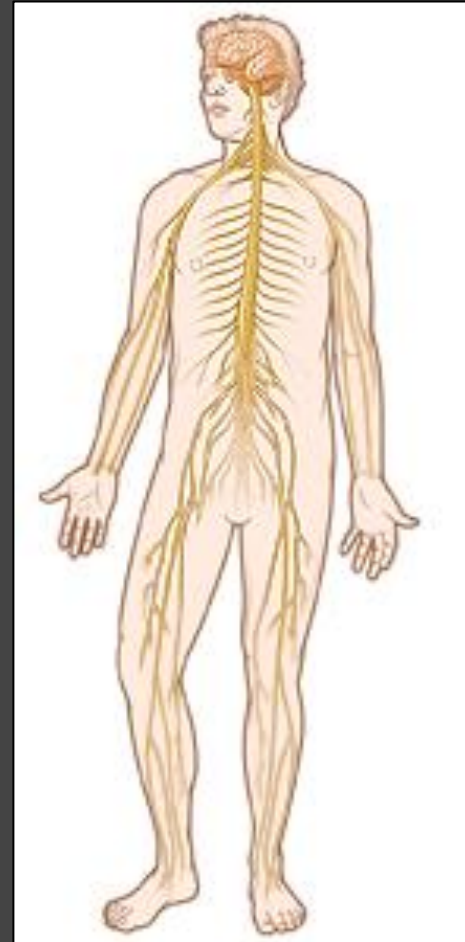
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Item No. 3.

# Overview



*What We Have*



*What We're Building*



# Intelligent Transportation Systems Defined

Use technology to optimize travel time on the road network

- Fewer red lights
- Consistent travel times
- Respond to unusual events
  - Construction delays
  - Incidents



# ITS Elements

## *Transportation Management Center: The Brain*

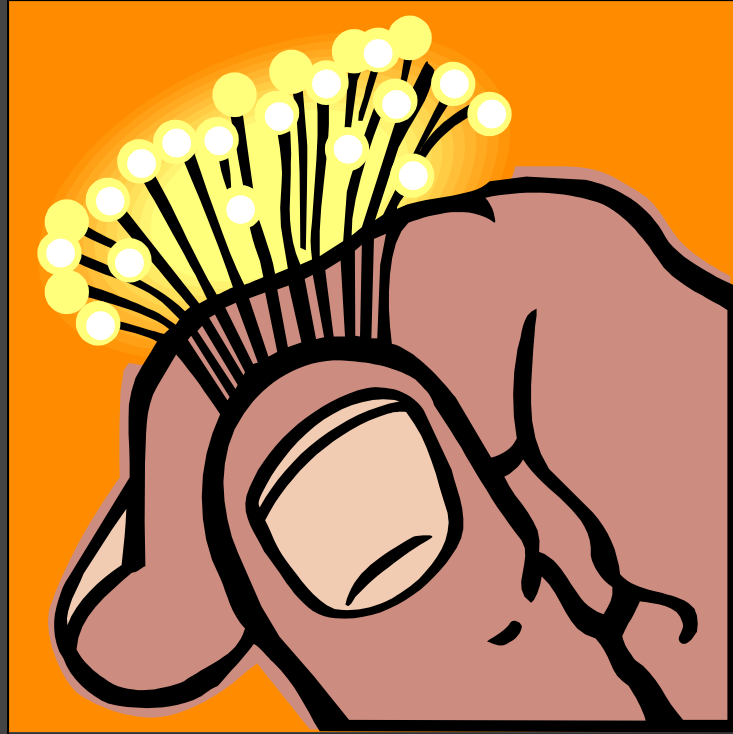


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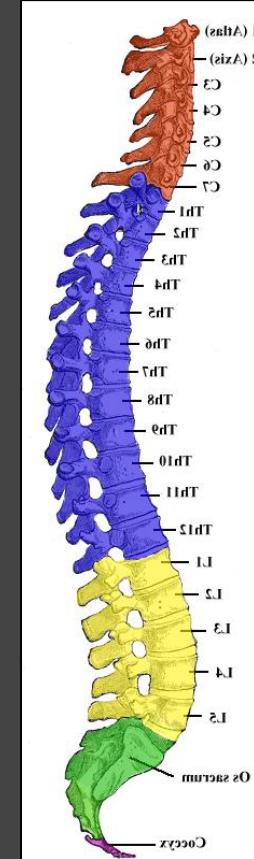


# ITS Elements

## *Fiber Optic Media: The Spinal Cord*



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# ITS Elements

## *CCTV Cameras: The Eyes*



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# ITS Elements

## Traffic Signal Controllers: The Hands



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# ITS Elements

## *Dynamic Message Signs: The Voice*



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# ITS in Moreno Valley Timeline

## ITS Mainstreaming

Master plan developed

Pilot corridor completed  
(Alessandro w/o Frederick)

TMC completed (est.)

Software procured

Construction of First  
Phase (Frederick,  
Alessandro to SR-60)

2009

2010

2011

2012

2013

2014

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# Transportation Management Center

- Currently bidding
- Adjacent to City Hall front entrance
- Demonstrates commitment to constituents' mobility
- Proactive maintenance response
- Staff multiplier
- Attracts grant money
- How does it work?
- How does it function?

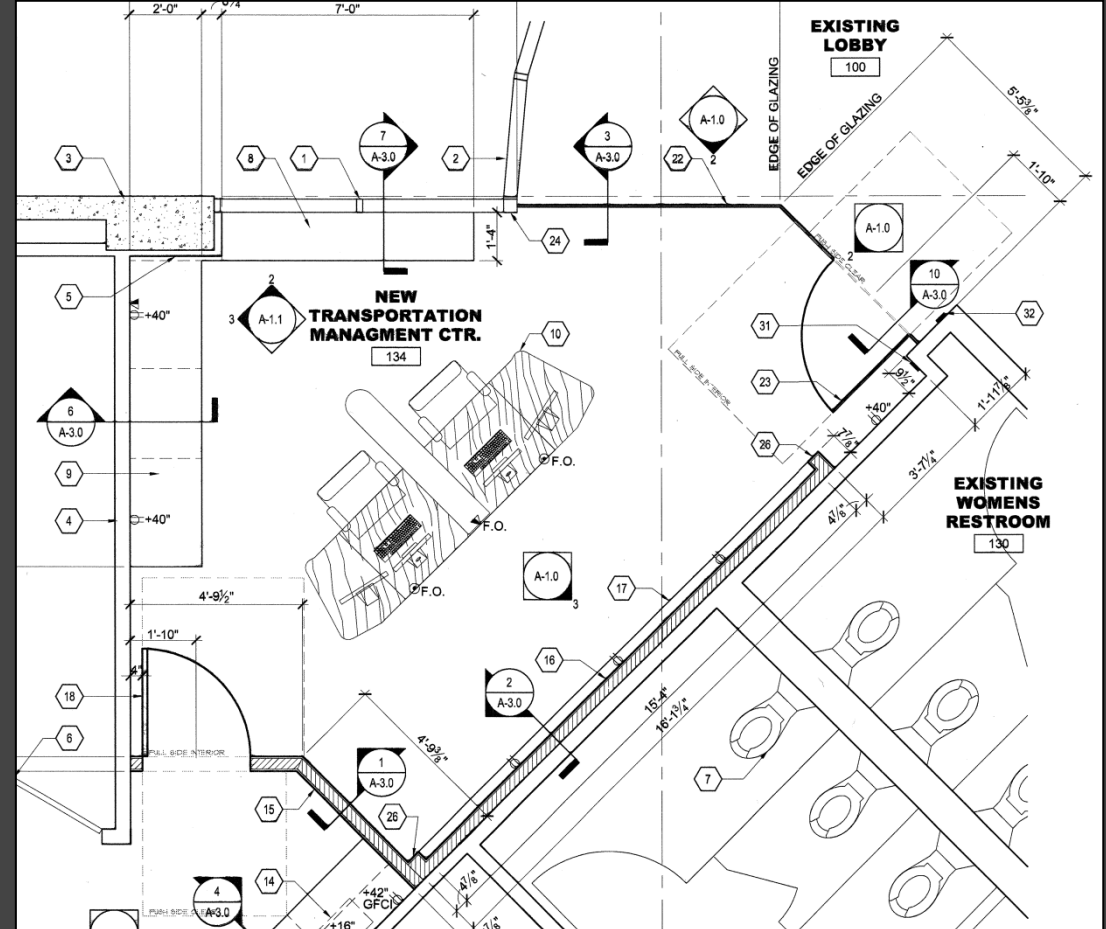
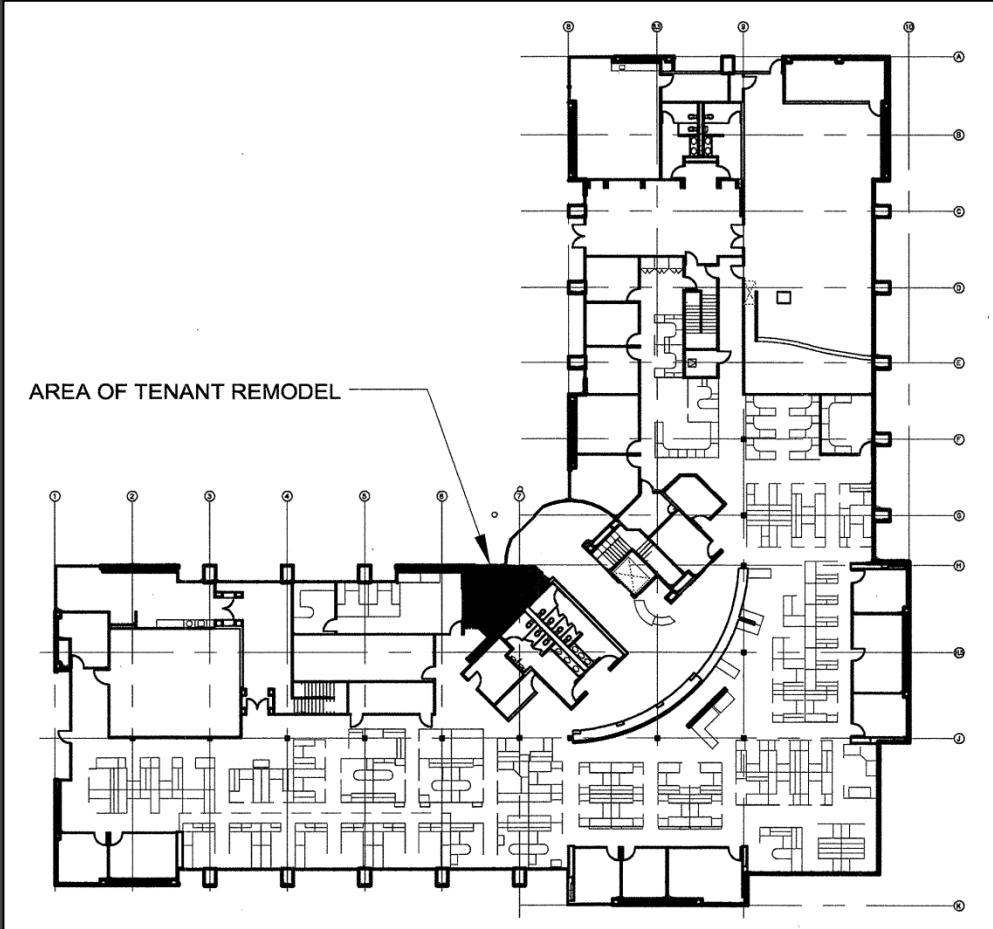




# Transportation Management Center

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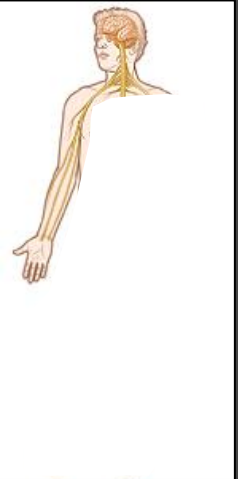
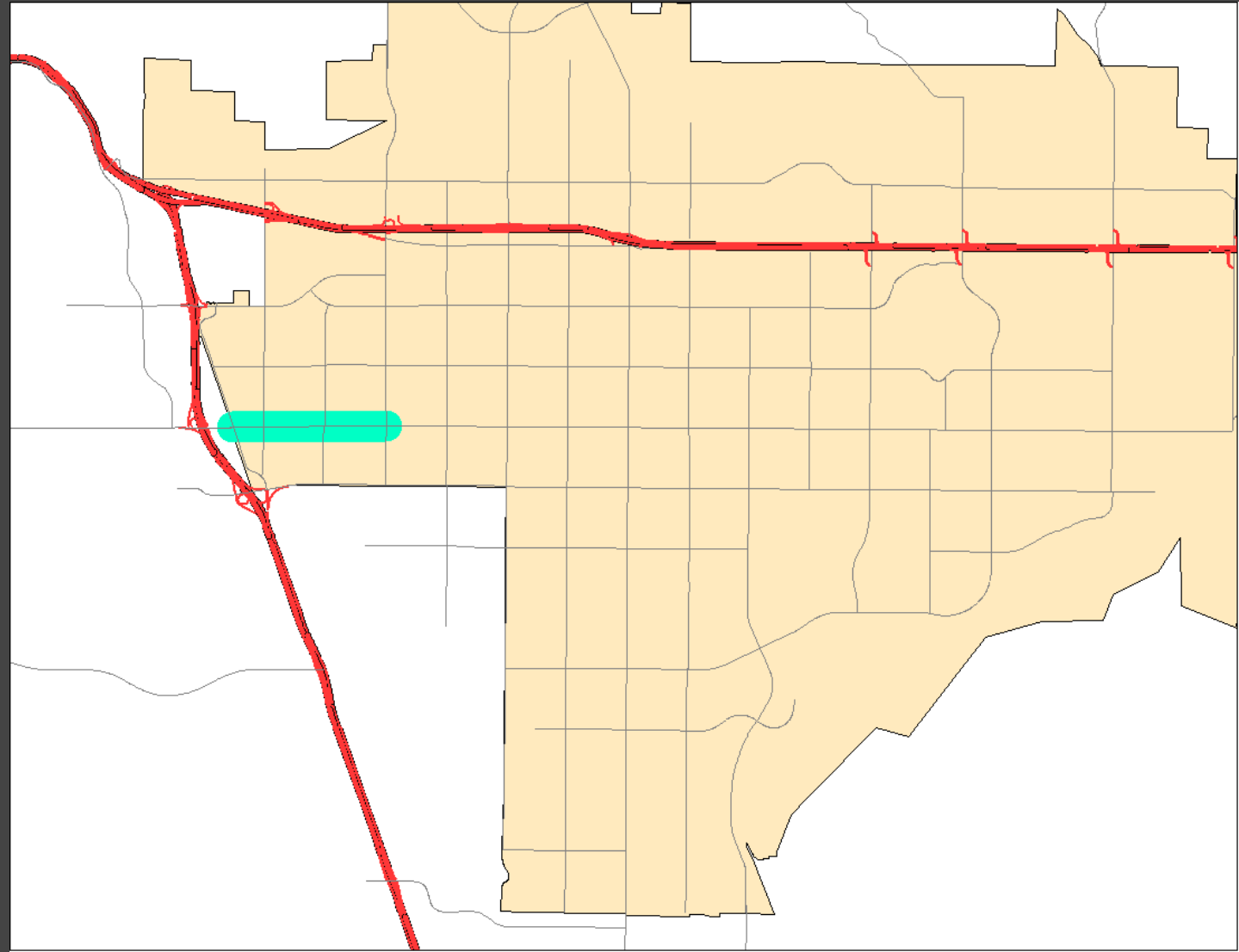
Item No. 3.



# Deployment Map

## Pilot Corridor

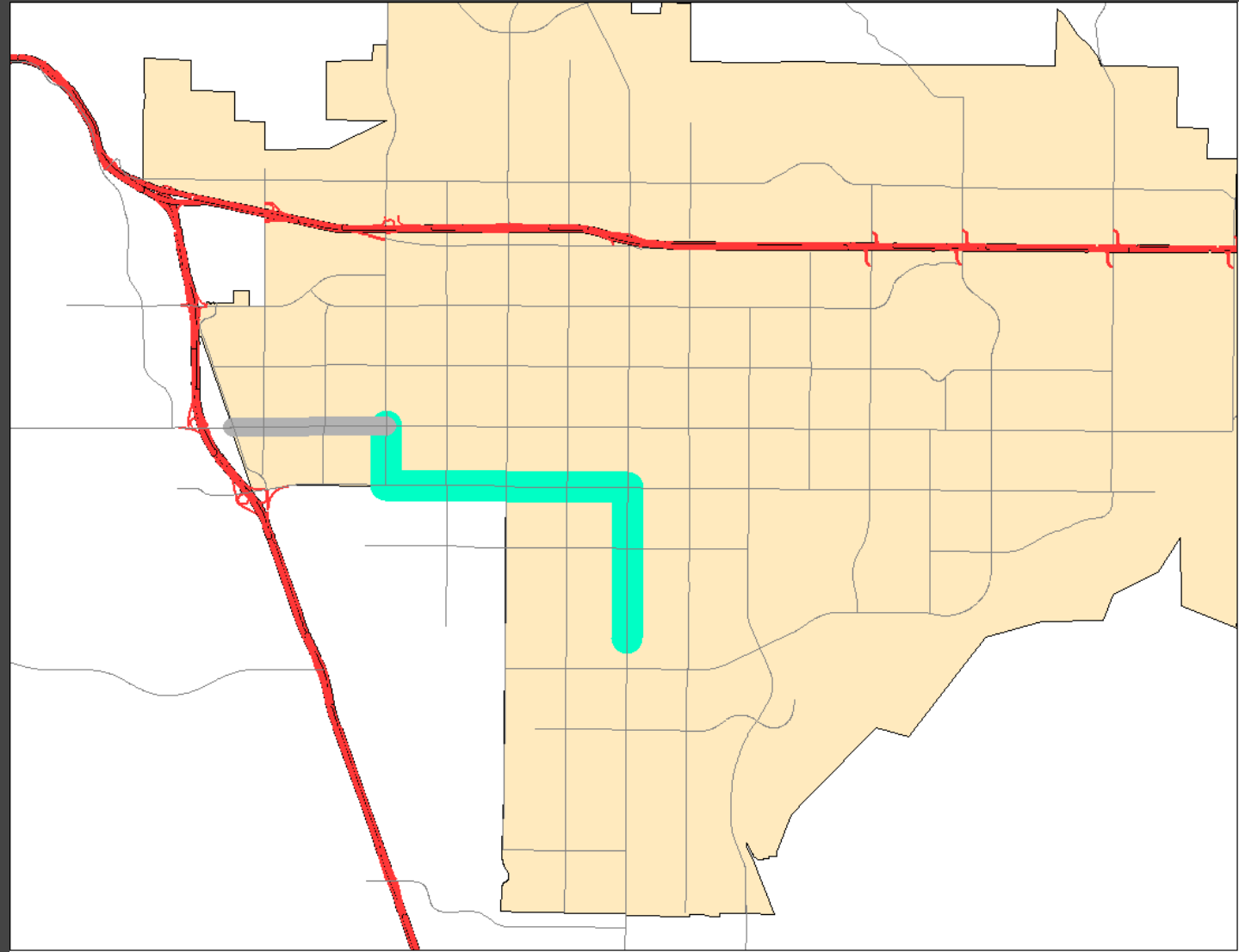
- Proved equipment and approach



# Deployment Map

## City Yard Fiber

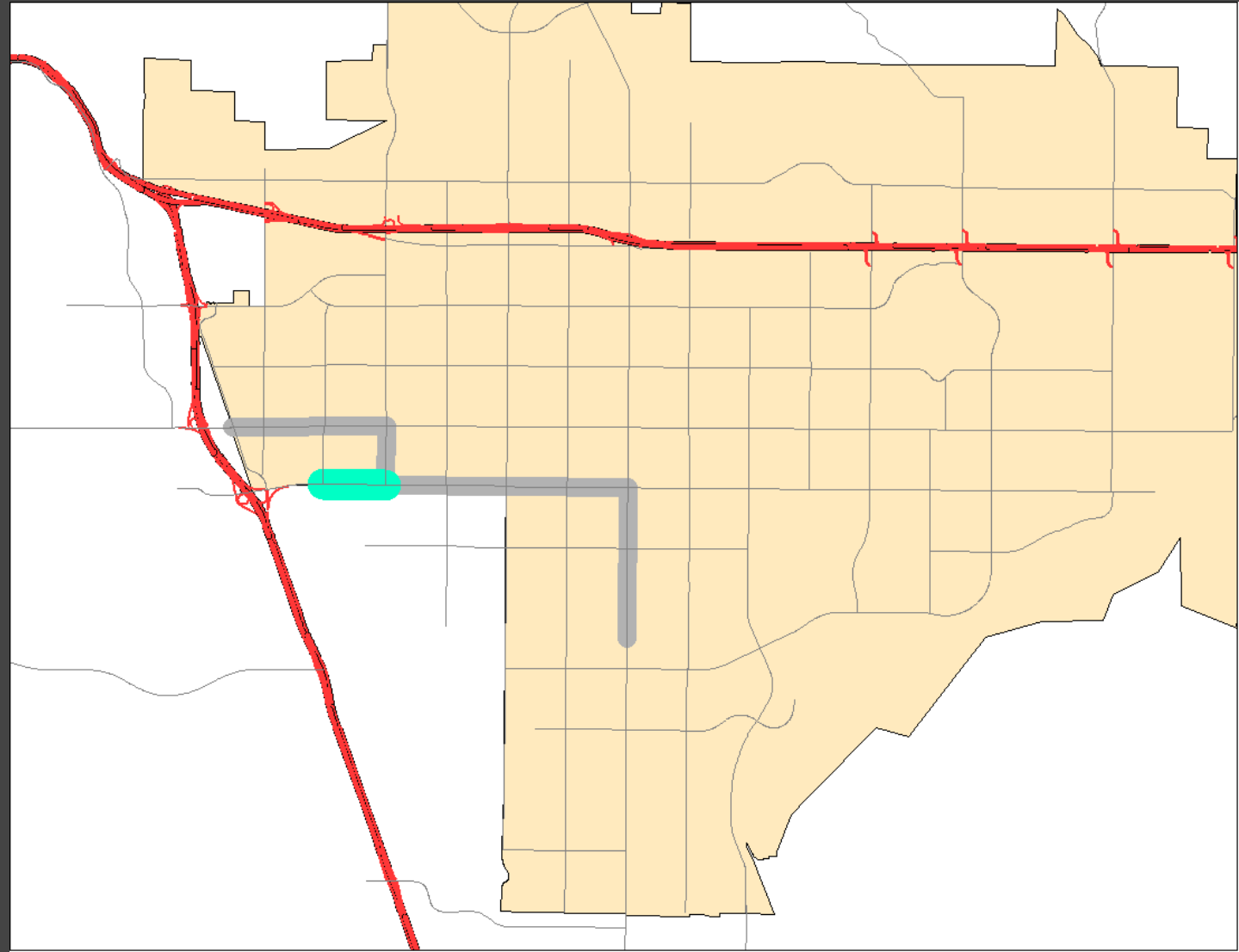
- Connects City facilities
- Traffic signal equipment being connected as budget allows



# Deployment Map

## Extension of System to Cactus/Elsworth

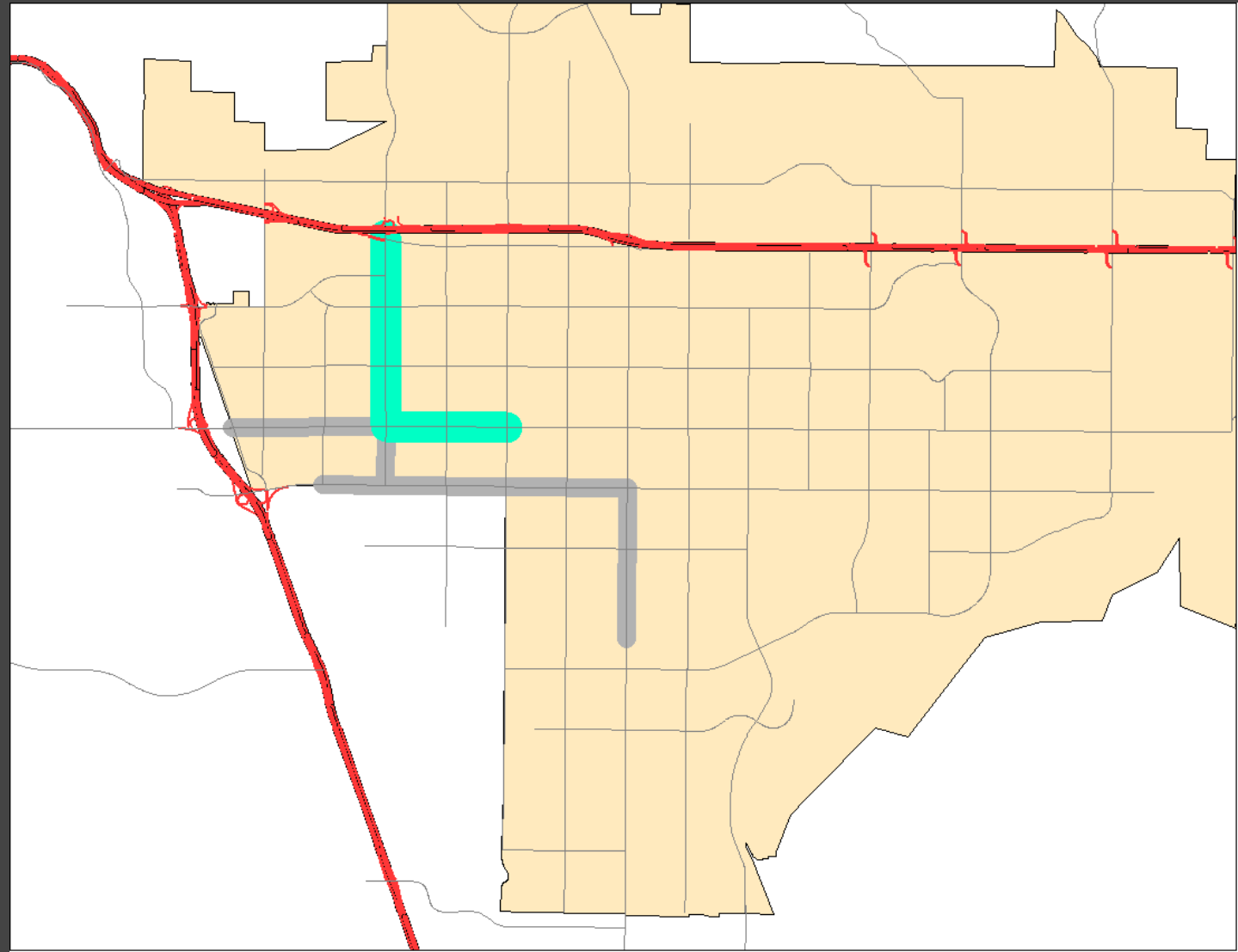
- Allowed for traffic management during widening of Cactus at Elsworth in early 2014
- Better handling of Elsworth ARB traffic at all times



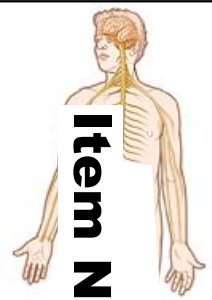
# Deployment Map

## ITS Phase 1A

- Currently under construction
- Includes connection to Caltrans fiber optics



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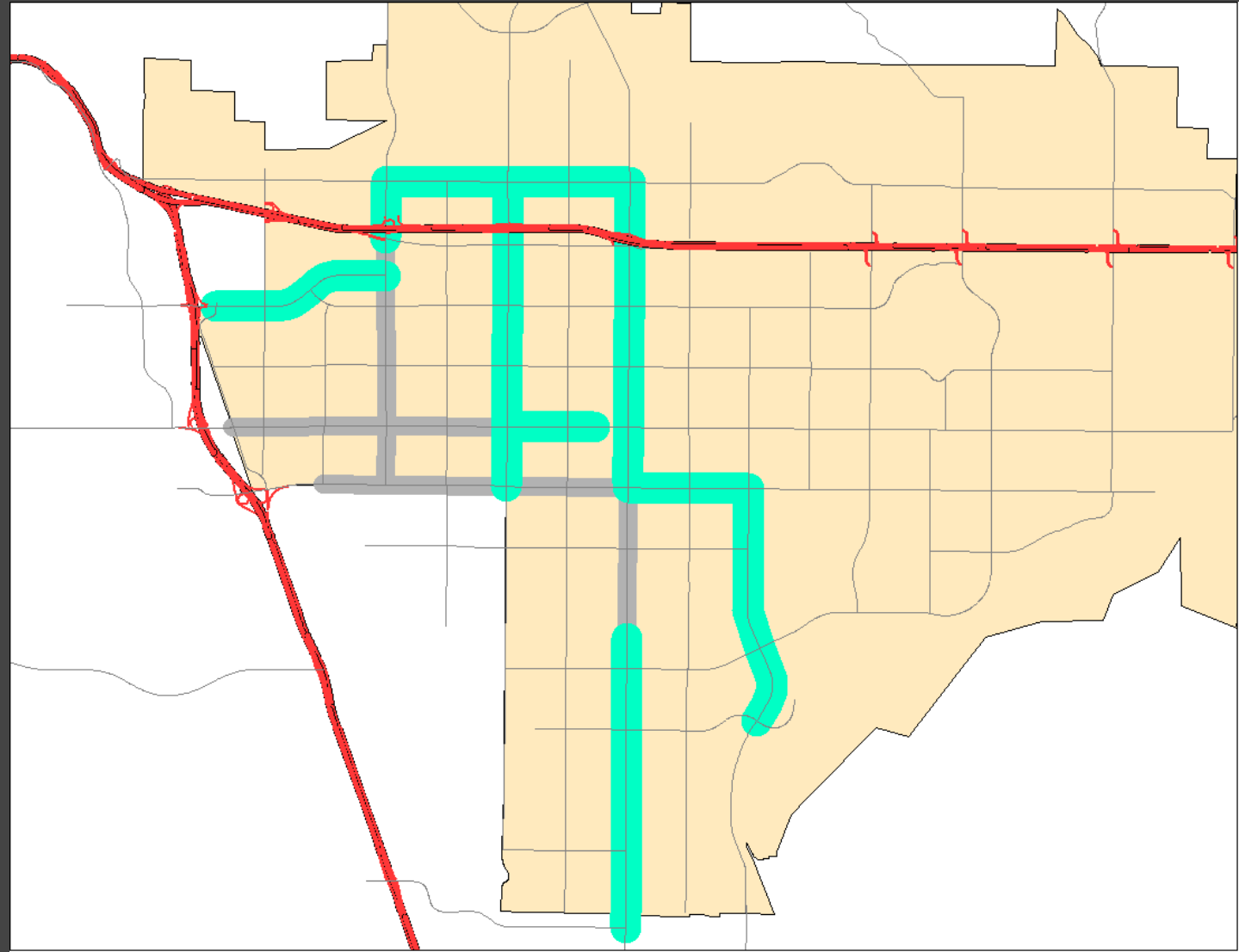


Item No. 3.

# Deployment Map

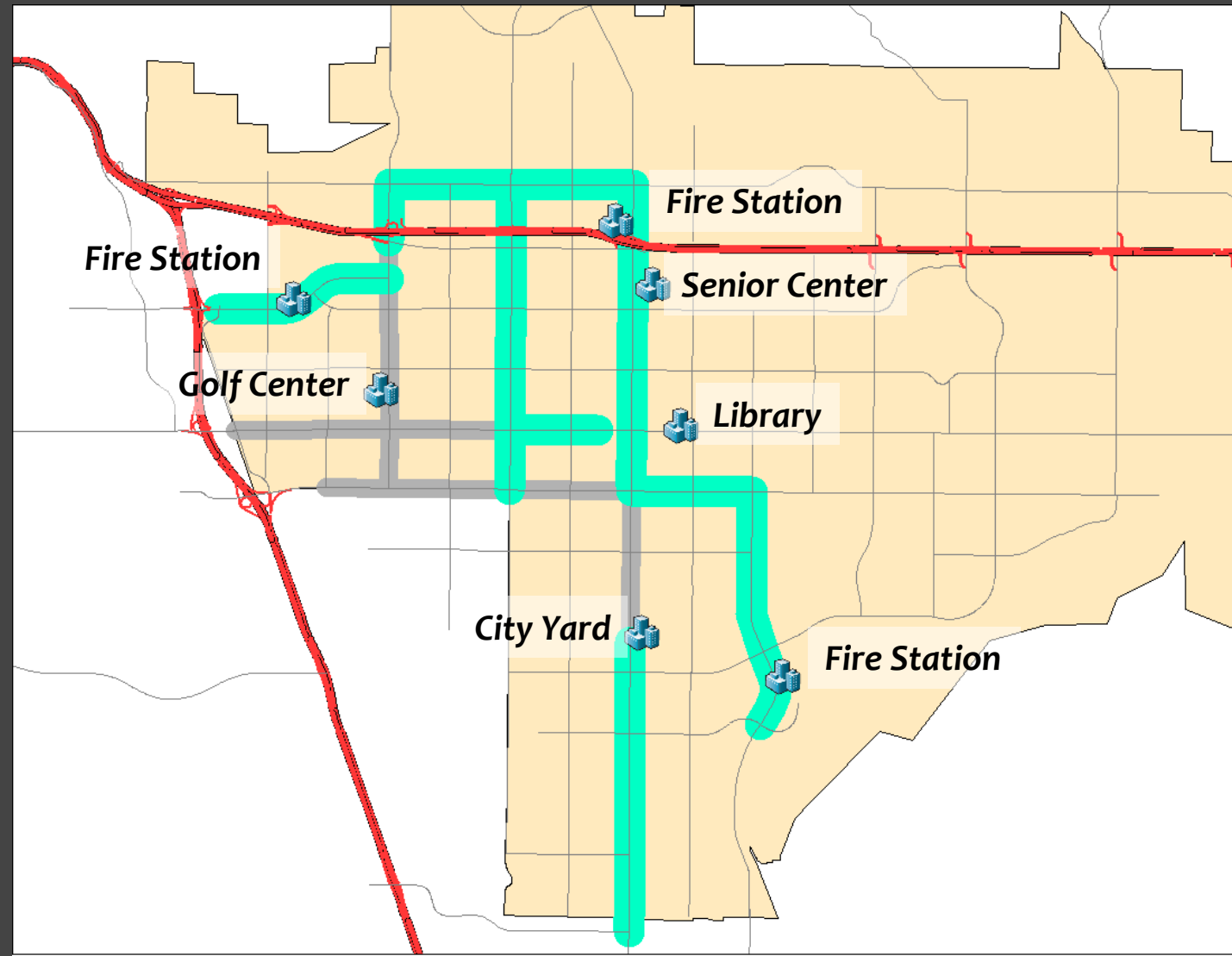
## ITS Phase 1B

- Federally funded (12% match)
- Dedicated funds
- Why these corridors?
  - Heavily traveled
  - Contain existing conduits/ducts



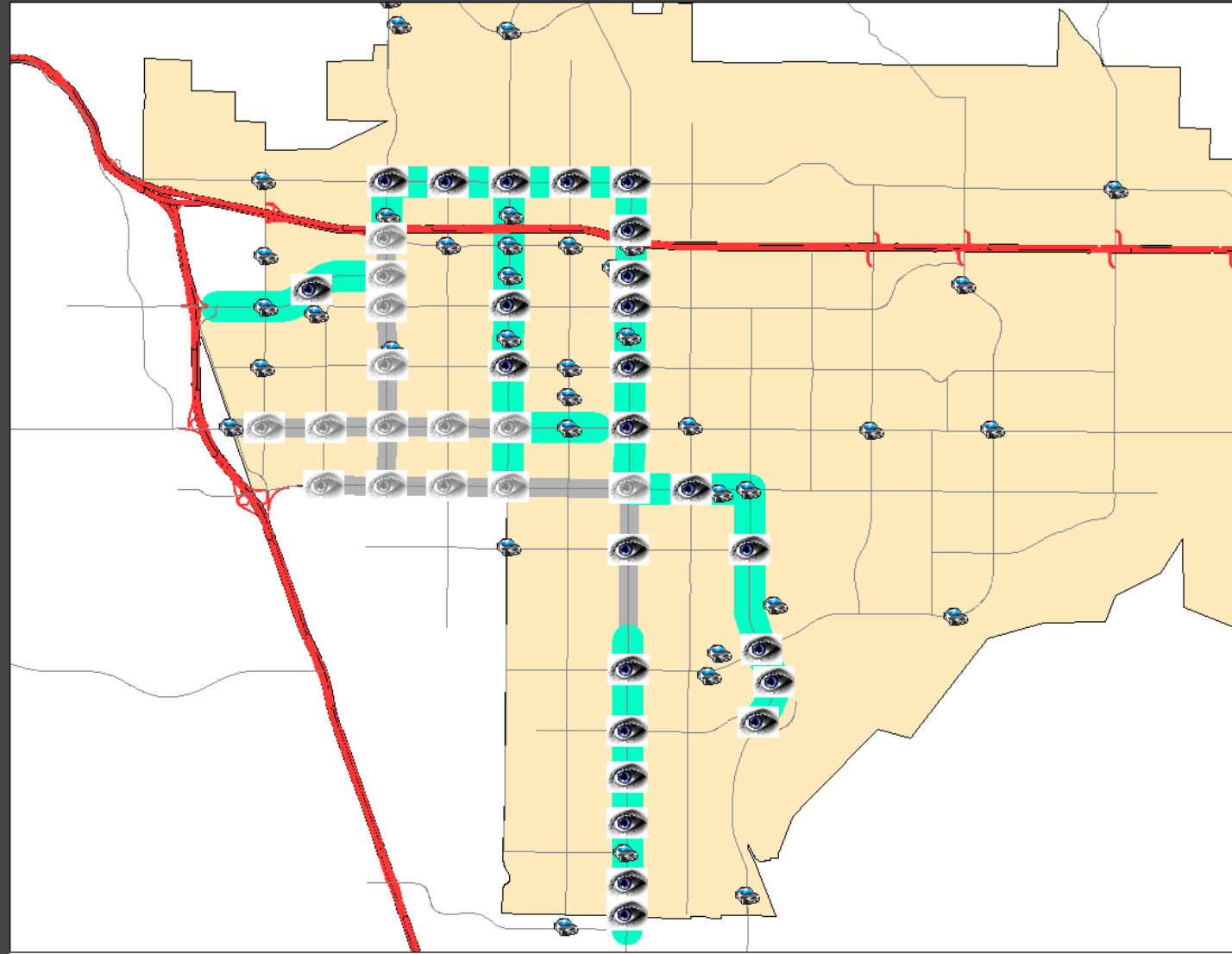
# Deployment Map

Satellite Facilities Near  
Funded Fiber Optics



# Existing and Planned CCTV Cameras

- All cameras on one platform
  - P.D. cameras (53 sites)
  - Traffic cameras (16 sites)
- ITS Phase 1B adds cameras at 26 sites





# Dynamic Message Signs project

- Provides for three signs (pictured)
- Messages to be travel-time related
  - Incidents
  - Construction
  - Time to reach popular destinations
- Locations to be determined
  - Planned for west portion of City
  - Design, locations, and message policy will be brought to TSC and CC
- 88% reimbursable
- Dedicated funds
- Relies on ITS Phase 1B communication system
- To be designed concurrently with ITS Phase 1B



# Impact to Operating Budget

## New Expenses

**Video monitors at TMC:** \$2,500 per year

**Fiber optics:** \$14,000 per year

**Maintenance agreement for new TMC software:**  
\$21,000 per year (commences in 2016)

**New signal controller cabinets:** \$21,500 per year

**CCTV cameras:** \$14,000 per year

**Total new annual costs (starting in 2016):** \$73,000

# Impact to Operating Budget

## New Savings

Project replaces 20+ year old traffic signal controller cabinets: **\$565,000 one-time savings**

Fewer after-hours call-outs for new traffic signal controllers: **\$12,000 per year estimated savings**

TMC allows fewer trips to field to adjust traffic signal timing: *More time spent on customer care*

**Total new savings:**      **\$565,000 one-time**  
   **+ \$12,000 annually**

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