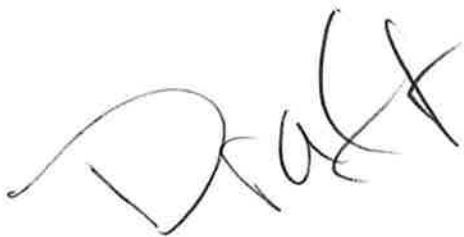


Western Municipal Water District

Standard Operating Procedures

Upper SARI System Maintenance Access Structure (MAS) Inspection and Documentation

APPROVED:



Wastewater Operations Manager

Date

Annual Reviewer				
Review Date	7/2011	7/2012	7/2013	7/2014

2. Evaluate the seriousness of the detected problem
3. Locate the position of problems
4. Provide clear, concise, and meaningful management reports regarding identified problems
5. Provide sufficient information to prepare a corrective plan or strategy.

In addition, information obtained during inspection activities can aid in identifying existing leaks into the system or potential problems which could lead to development of leaks and/or Sanitary Sewer Overflows. This information is critical to allow prompt correction of any problems found.

Because MAS's are part of the SARI System, they require the same attention as the rest of this collection system. When located in streets, these structures are subject to vibrations and pounding of vehicle traffic. MAS's may settle at a different rate than the connected conveyance line, thus creating cracks in joints. Easement locations on private property are subject to misuse and changes of ground surface due to construction or gardening activities. The object of MAS inspections is therefore to determine the proper elevations or grades around the lid, to ensure the lid is not buried, and to examine the structure for integrity and functional capacity. An indication of the condition of the pipelines entering the MAS can also be achieved through observation of the content and volume of flows from a specific direction.

MAS Inspection Procedures

The MAS inspection process consists of five basic steps which include:

1. Location of MAS to be Inspected and Surrounding Area Check
2. Test Atmospheric Conditions and Follow Traffic Safety Procedures as necessary
3. MAS Entry and Inspection
4. Cleaning of Metal Parts and Gasket Replacement as Necessary
5. Closing of MAS Lid and Completion of Reports and/or Work Orders

Location of MAS to be Inspected and Surrounding Area Check

Locate MAS and check the general surrounding area for proper drainage away from the lid. Keep in mind that if the lid is excessively below or above the finished street grade, the structure will be subject to pounding due to traffic loads. In easement areas, the MAS lid should be two or more inches above the soil level around it (except where street elevations apply). Any grade or elevation defects should be noted on the inspection report form.

Test Atmospheric Conditions and Follow Traffic Safety Procedures as Necessary

Set up traffic control as required per the appropriate regulatory agency and test MAS atmospheric conditions using a gas detection device. All established safety policies and procedures must be followed during the entire inspection process.

MAS Entry and Inspection

Make entry into the MAS, following established confined space entry policy and procedures, and follow inspection form in documenting all observations. Document and defects noted such as:

1. Cracks or breaks in walls or bottoms
2. Failures of protective wall coatings
3. Infiltration in any place including estimation of flow
4. Joint security (no significant cracks)
5. Offsets or misalignment
6. Any grease or debris accumulation
7. Sluggish flows or evidence of backing up in MAS, which will trigger inspection of upstream and downstream MAS.
8. Any corrosion

Cleaning of Metal Parts and Gasket Replacement as Necessary

After the completion of the inspection process, it is a good time to conduct basic housekeeping activities as needed. Before closing any inner lids of an MAS, determine if the seal gasket needs to be replaced and any bolts that are severely worn should also be replaced. The surface of the structure should be properly cleaned using a wire brush prior to installing the new gasket (using a sealant product to ensure waterproofing as needed)

Closing of MAS Lid and Completion of Paperwork

Replace the MAS lid and look for evidence of warping or misfit. The lid should not rattle or "rock". The inspector needs to ensure that the MAS inspection form is properly identified and all data is completed included any written observations. Repair work that will need to be completed at a later date must be documented on a Maintenance Work Order.

MAS Inspection Form Overview

The following is an overview of the MAS Inspection form (Appendix B). The inspection form is divided into eight general areas:

1. Date, Inspector, and MAS identification information
2. General inspection

3. Structural Inspection
4. Hydraulic inspection
5. SARI System Information
6. Work Order Information

Areas that need to be filled in (where applicable) include the following:

- Area 1 The inspector needs to fill in information that identifies date of inspection, MAS identification and inspector, as well as, photo documentation and traffic control conditions.
- Area 2 The general inspection section requests that the inspector provide check box observations for six areas that include:
1. MAS Location
 2. Cover, Ring and Frame Observations
 3. Identify Lid cover size
 4. General surface area observations
 5. Assessment for odors
 6. MAS structure type
- Area 3 The Structural inspection section requests that the inspector provide check box observations for six areas that include:
1. Corrosion Protection for MAS
 2. Cone
 3. Riser
 4. Shelf
 5. Channel
 6. MAS identification stake installed. In areas where the MAS is located in traffic, the stack should be placed on the side of the road outside of traffic (noting location of MAS on stake)
- Area 4 The Hydraulic inspection section requests that the inspector provide check box observations for six areas that include:
1. Inflow indications
 2. Surcharge Indication
 3. Clarity of flow
 4. Flow
 5. Flow depth compared to adjacent manhole structures
 6. Flow depth
- Area 5 The SARI System Information section requests that the inspector provide observations and information for the following 12 areas:

1. MAS Diameter
2. Lid diameter
3. Lid bolted
4. Sealed watertight information
5. Location of seal
6. Inlet pipe diameter
7. Outlet pipe diameter
8. Connection
9. Connection size
10. Corrosion protection
11. Corrosion protection type
12. Identification stake

Area 6 The work order information section is used to identify additional work necessary at the MAS as well as priority identification

The form also includes areas for general comments of observations, maintenance work comments and an area for the supervisor to comment as necessary. It needs to also be noted that the inspector is to take as many photographs as possible of the surrounding area, inner MAS, and any other features of interest or where repair or follow-up will be necessary.

As the inspector, if you have any questions or concerns that may occur during the inspection process you are to contact your supervisor or senior operations technician for clarification.

MAS Inspection Photo Documentation

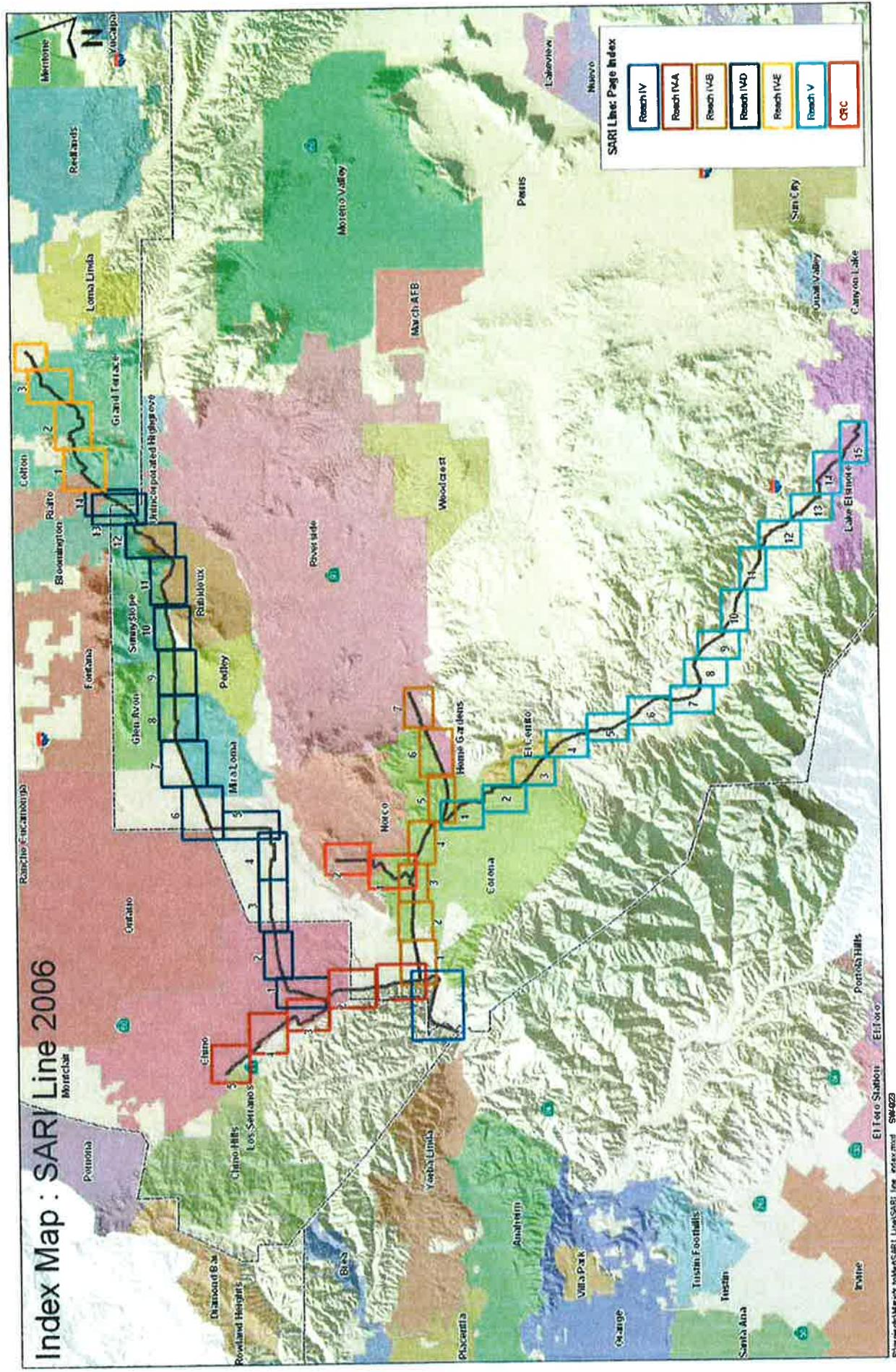
Every Brine Line Maintenance Access Structure (MAS) that is conducted shall need to be documented using digital images. The following are required actions by staff when digitally documenting MAS in the field:

1. Digital photographs are to include a date and time stamp.
2. Digital photographs must be clearly identified when submitted with any inspection report.
3. All submitted digital photographs must be clear and detail all areas of the structure being inspected (both internal and external)
4. You can never take too many pictures.

Appendix A

INDEX

Index Map : SARI Line 2006

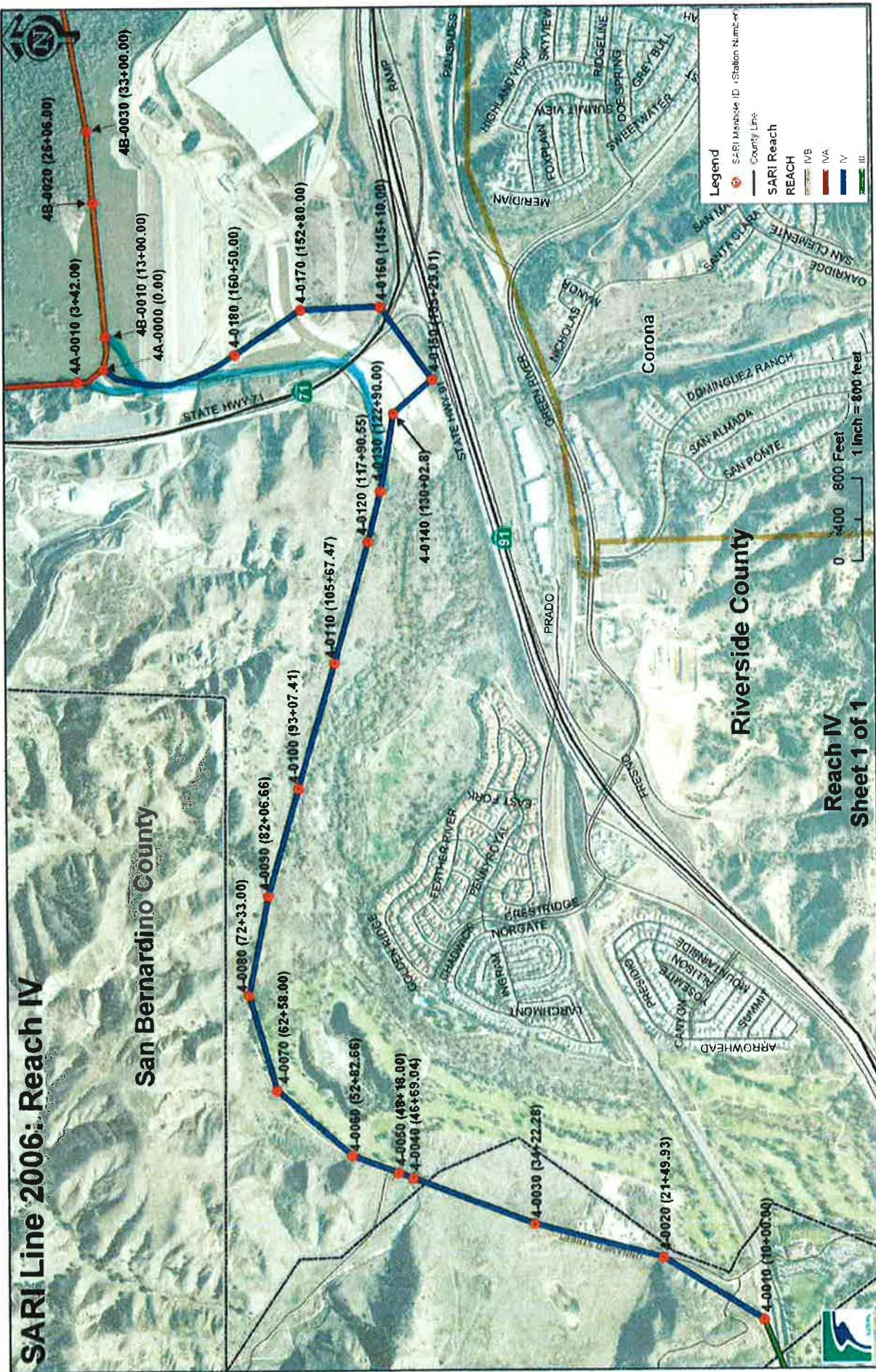


REACH

IV

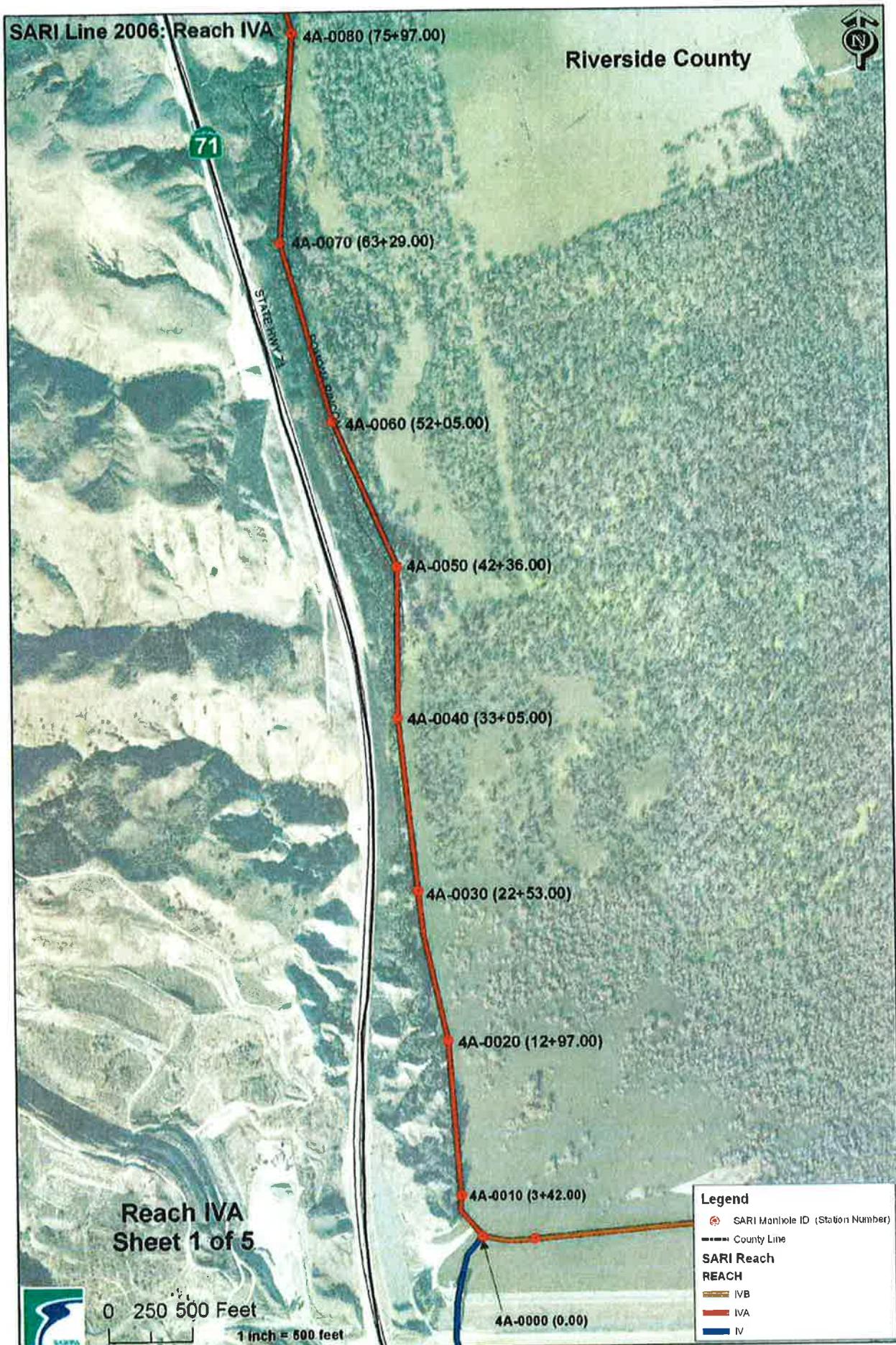
SARI Line 2006: Reach IV

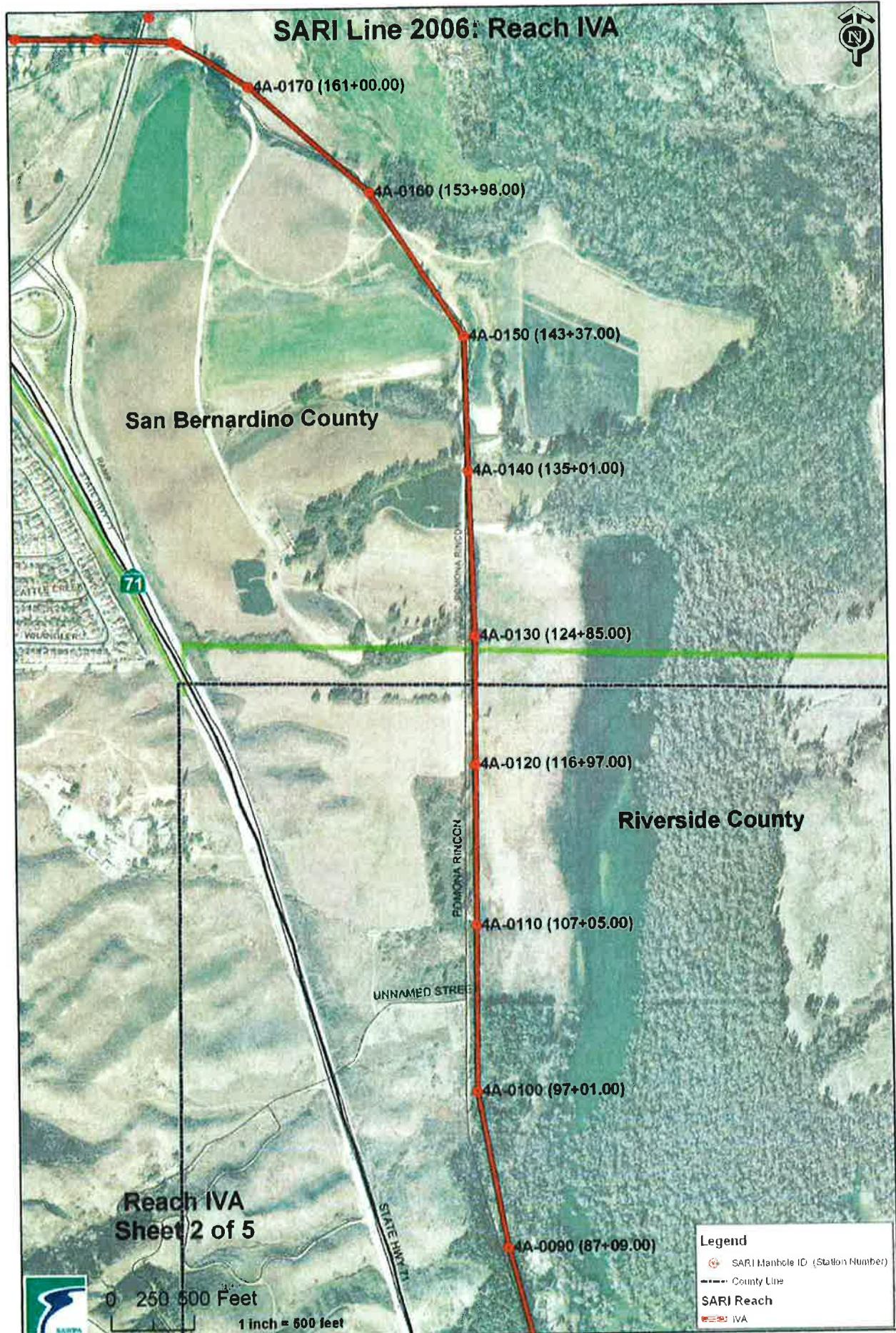
San Bernardino County



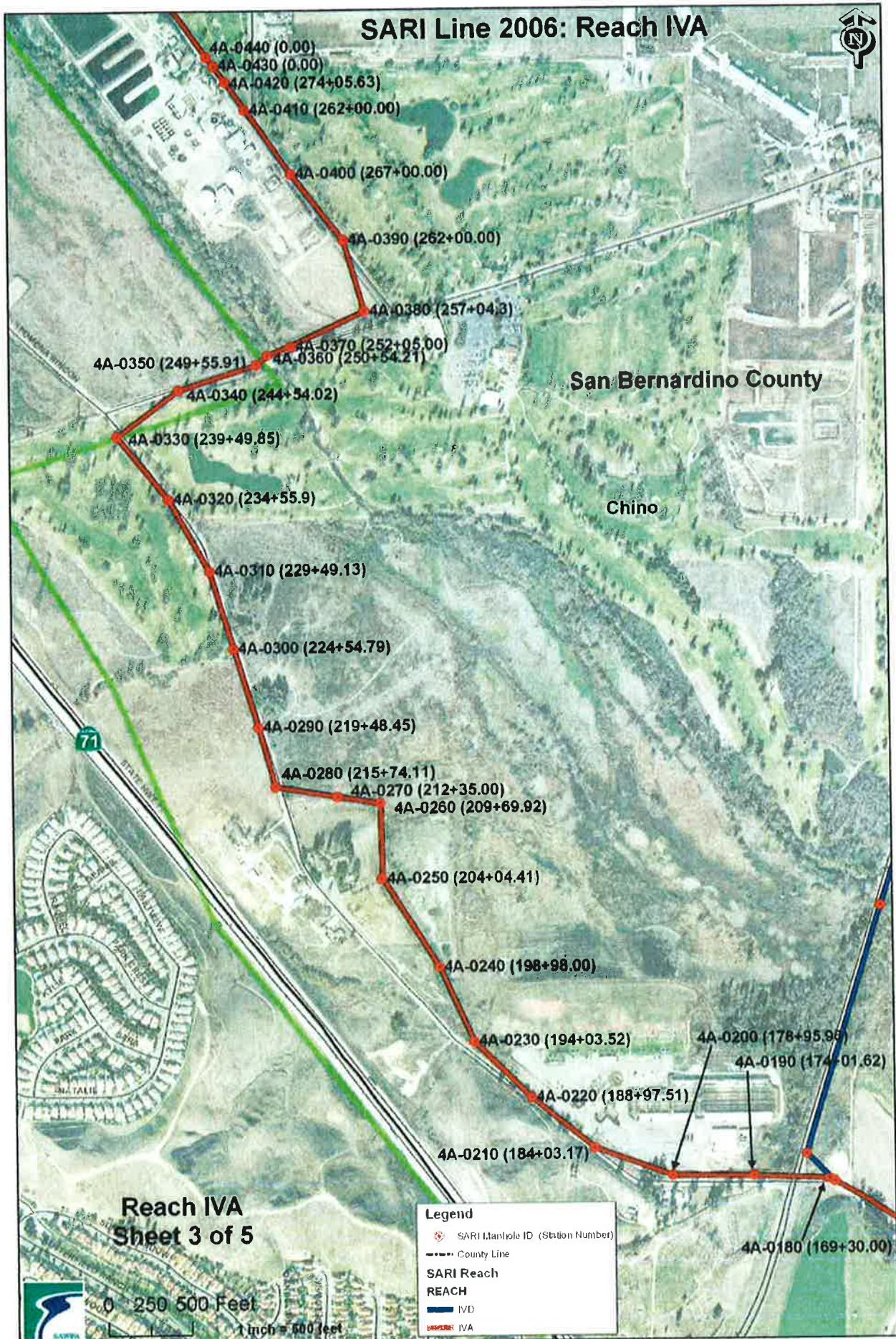
REACH

IV~A





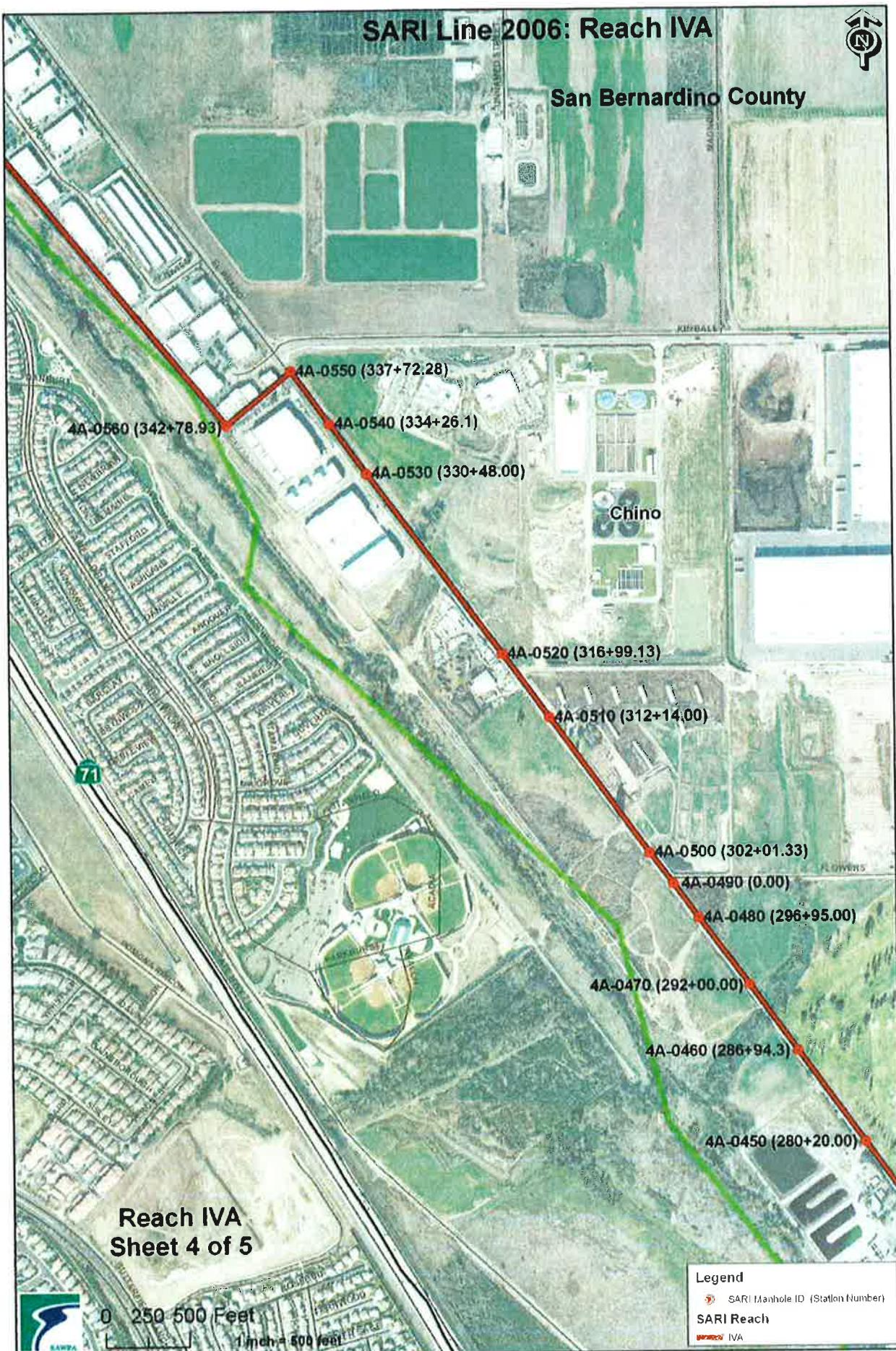
SARI Line 2006: Reach IVA



SARI Line 2006: Reach IVA



San Bernardino County



Reach IVA
Sheet 4 of 5



0 250 500 Feet

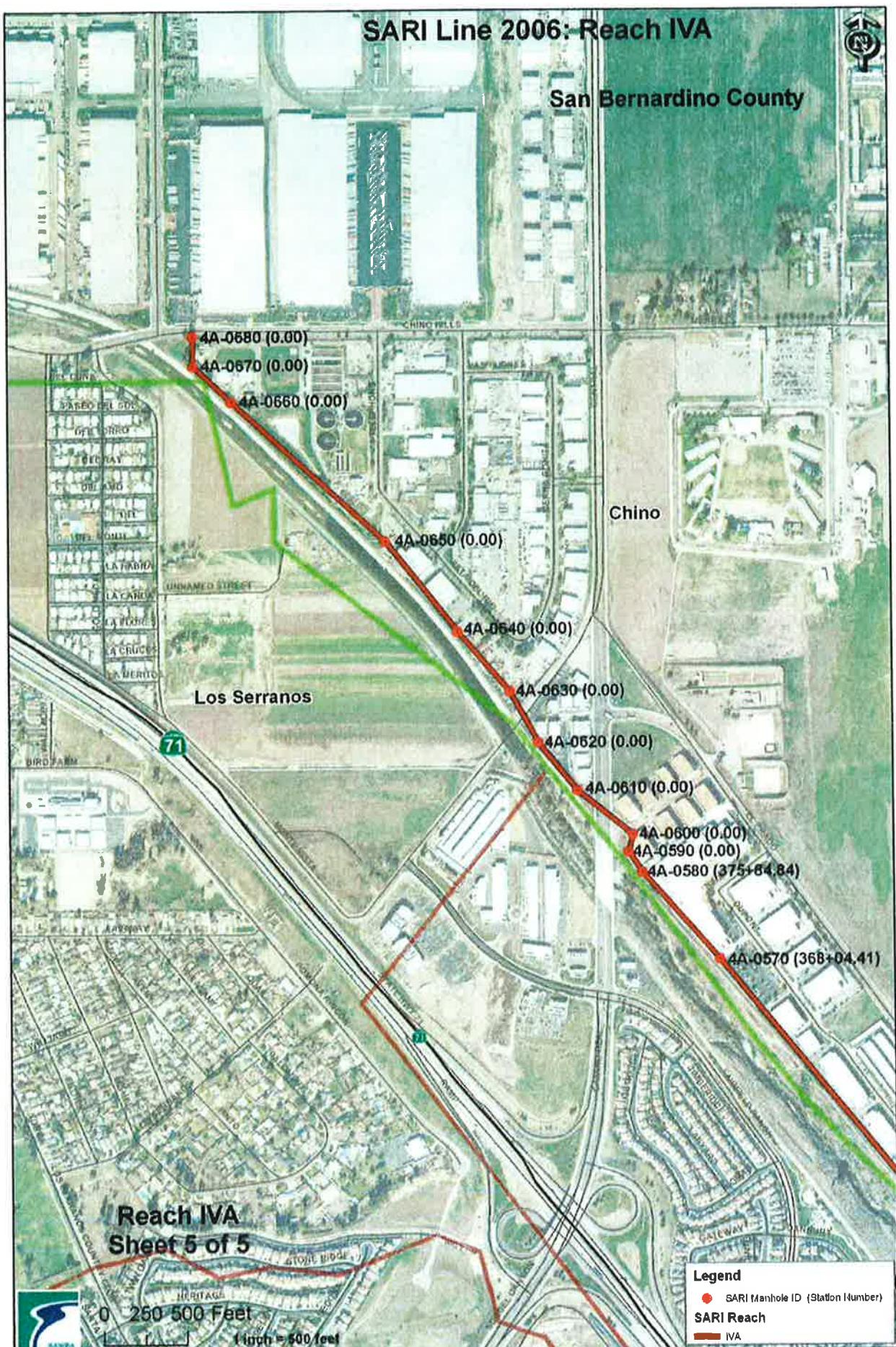
1 inch = 500 feet

Legend

- SARI Manhole ID (Station Number)
- SARI Reach
- IVA

SARI Line 2006: Reach IVA

San Bernardino County



REACH

IV~B

SARI Line 2006: Reach IVB

Riverside County

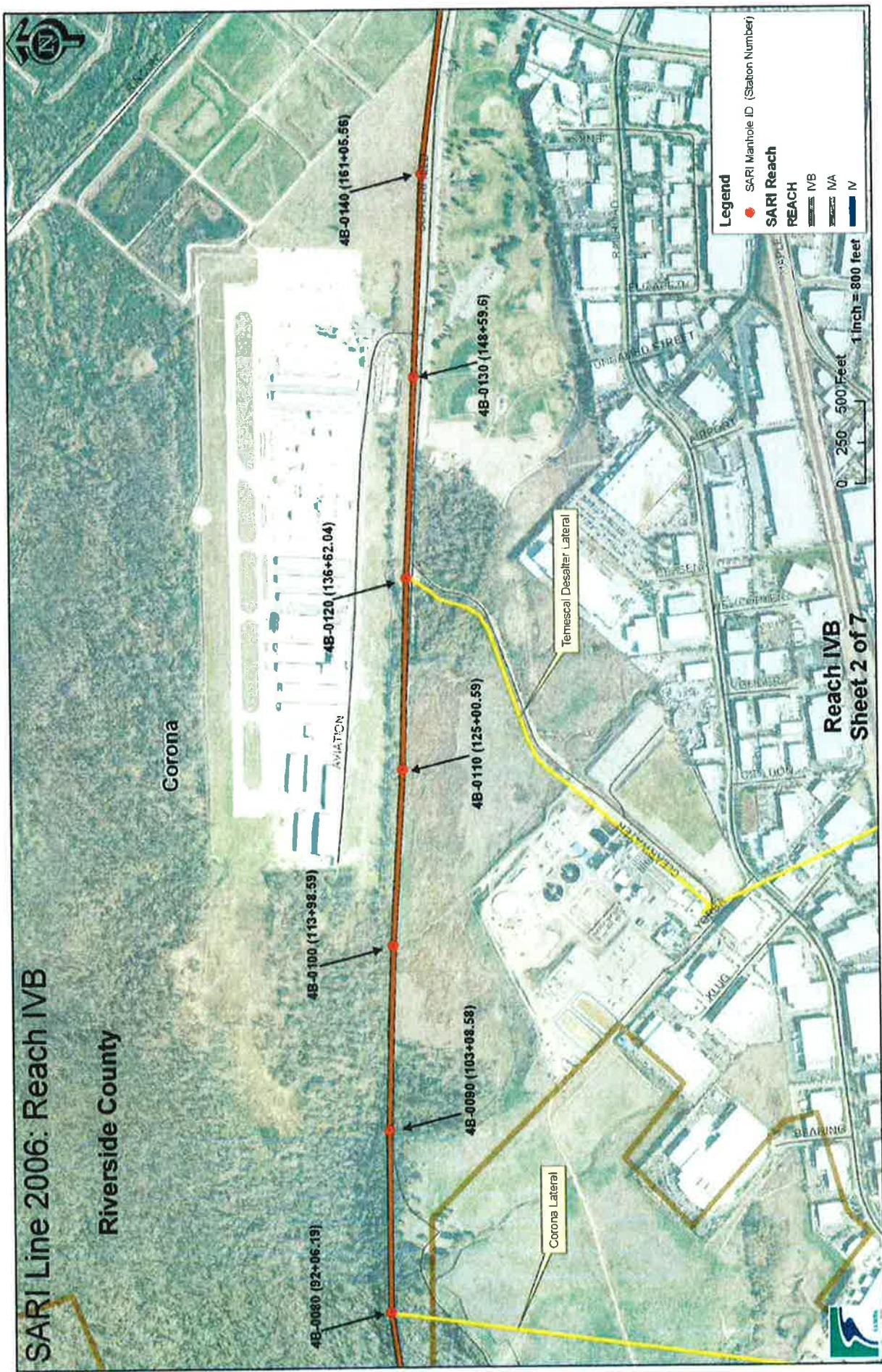
Corona



SARI Line 2006: Reach IVB

Riverside County

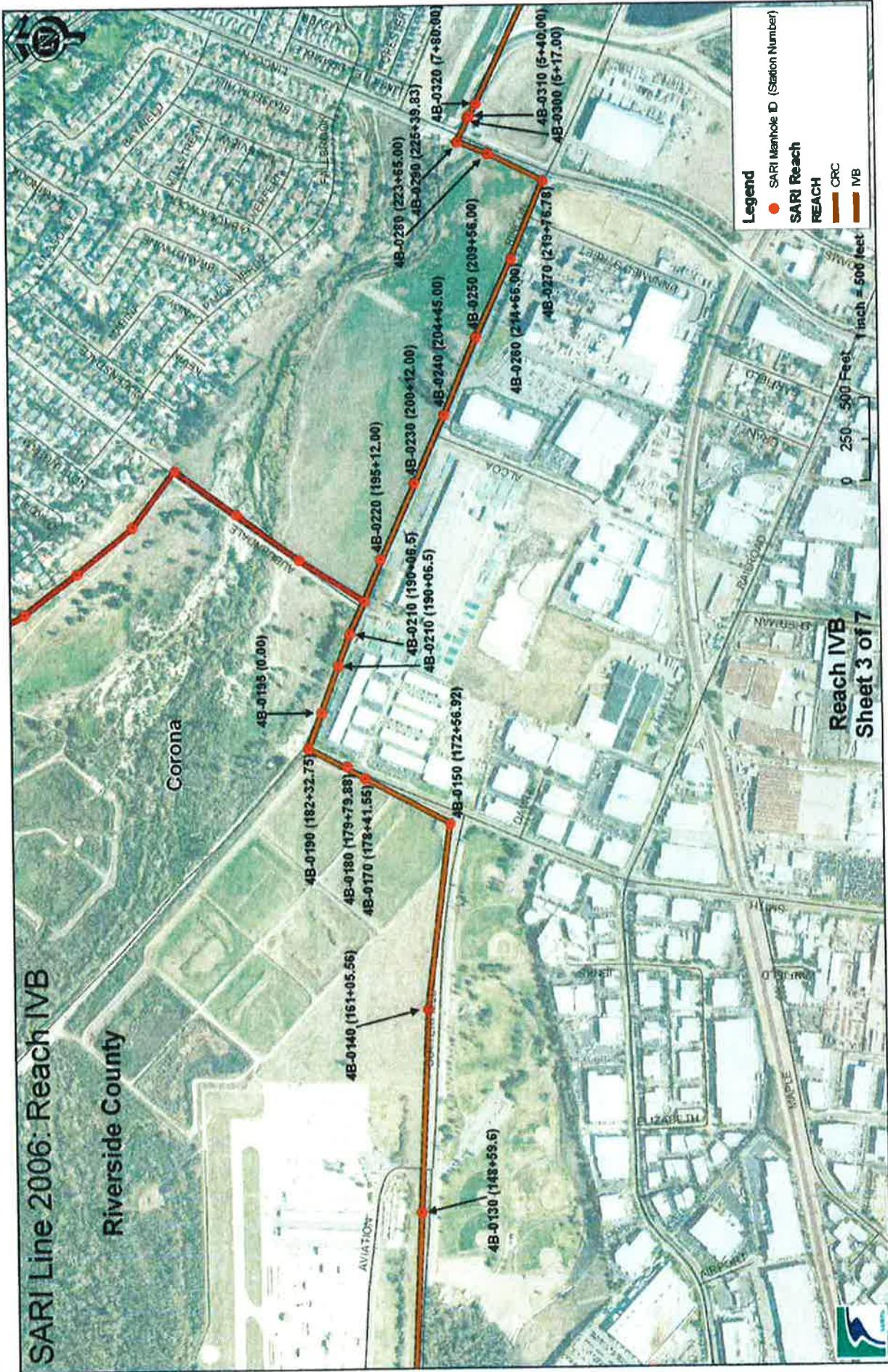
Corona



SARI Line 2006: Reach IVB

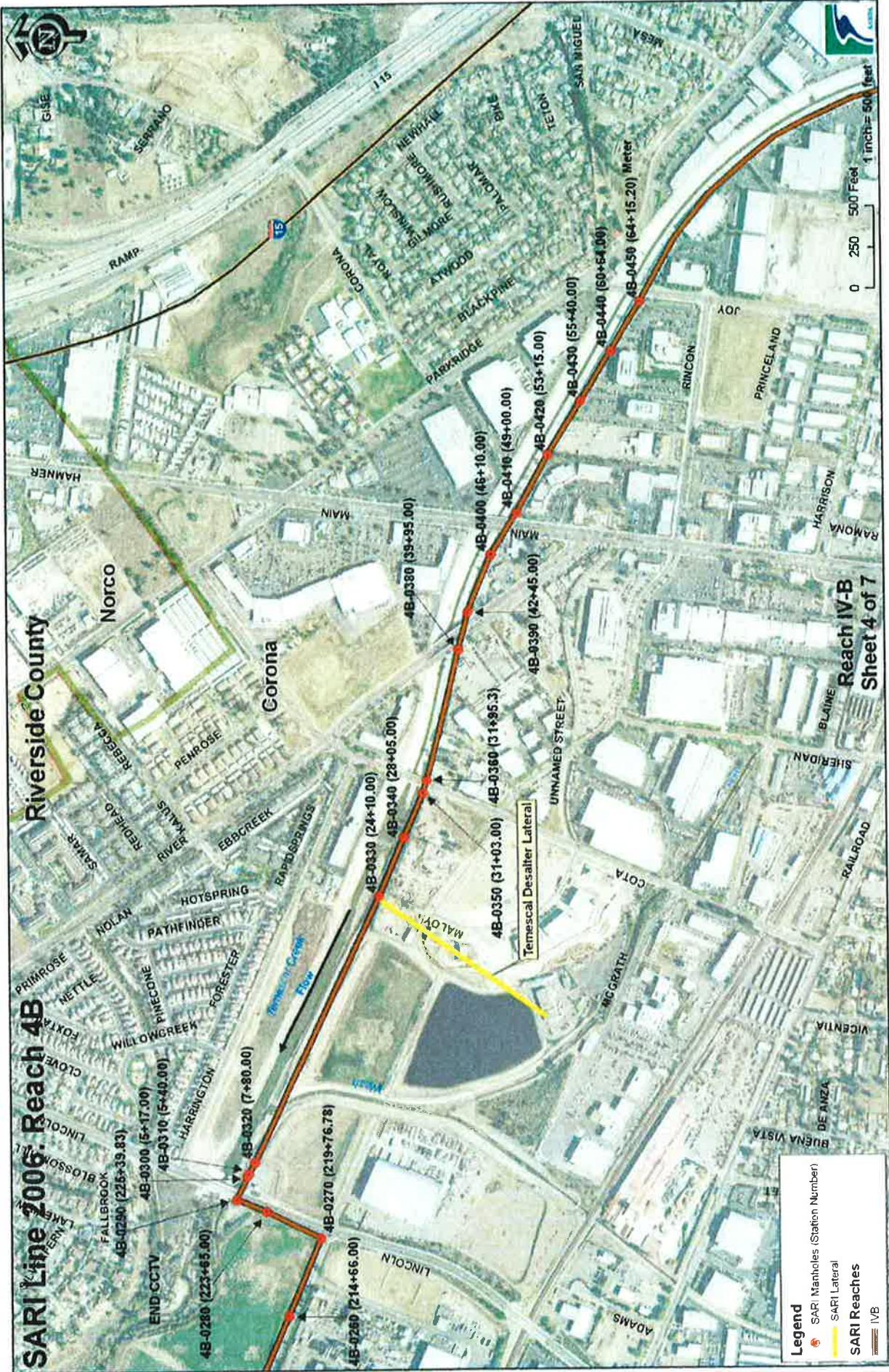
Riverside County

Corona



SARI Line 2006: Reach 4B

Riverside County



Legend

- SARI Manholes (Station Number)
- SARI Lateral
- SARI Reaches
- NB

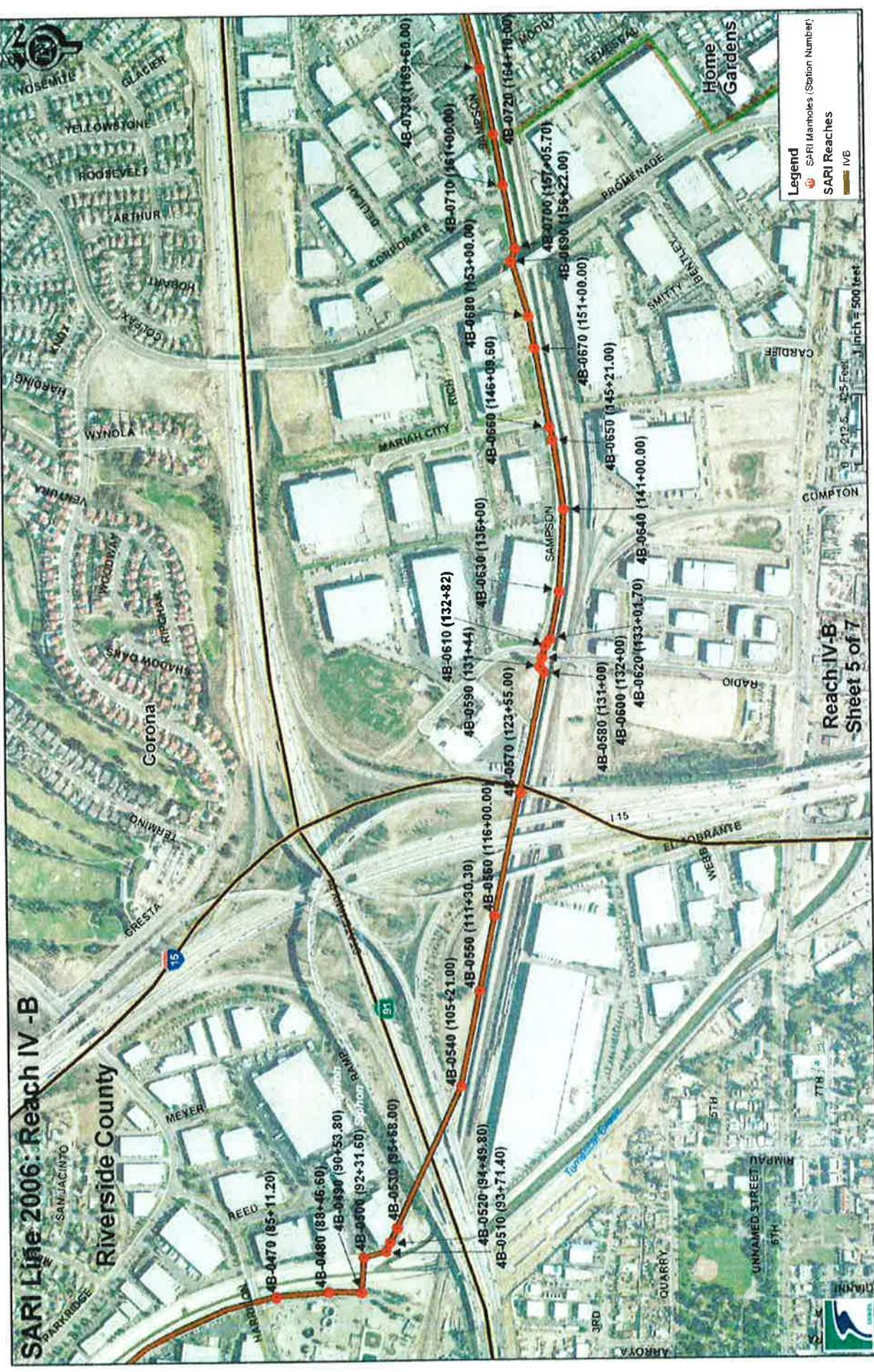
Produced pursuant to Section 3481, Line SARI 2006, 4-B-reach4-B-mod

SIV-097

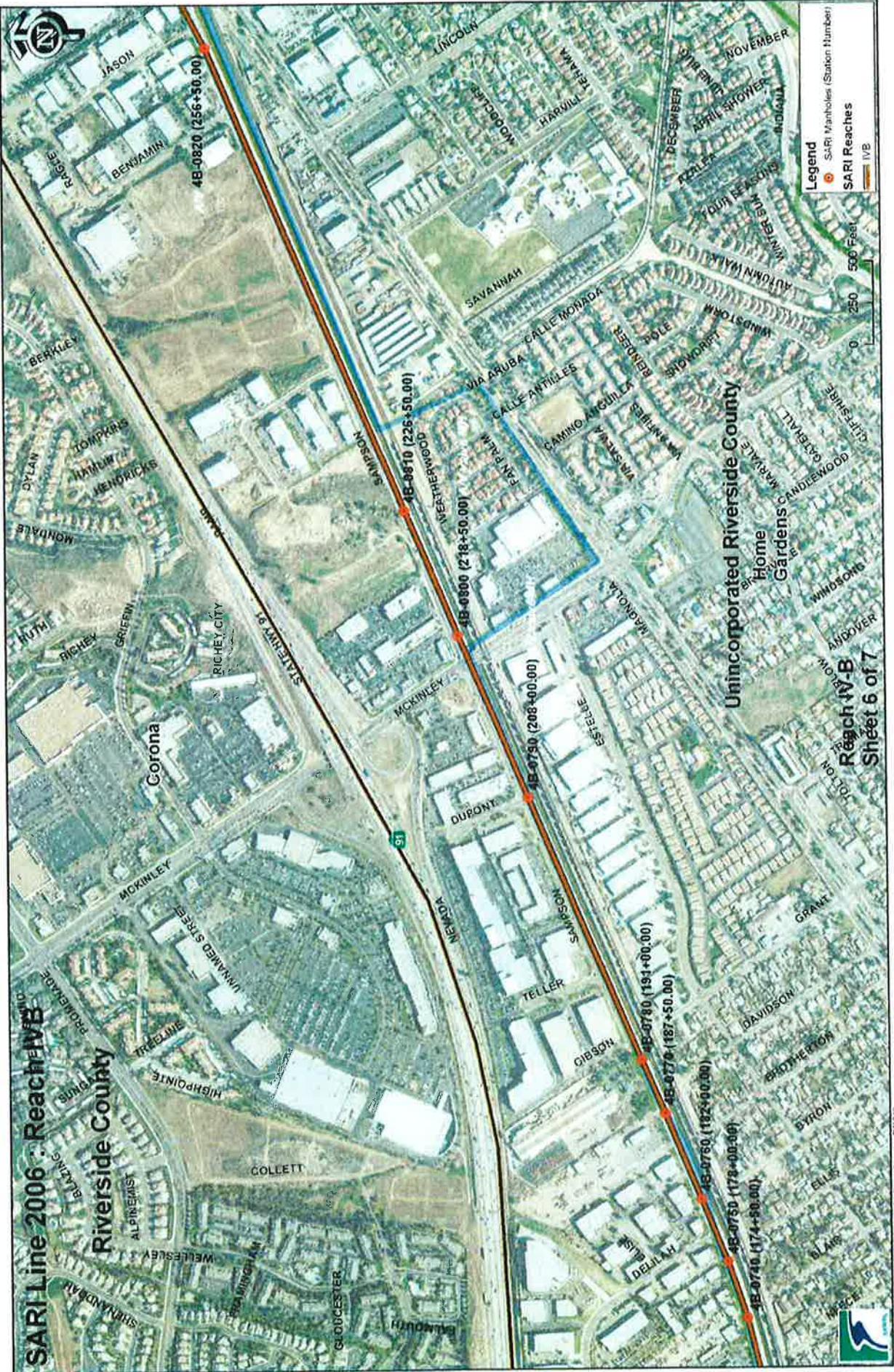
Reach IV-B
Sheet 4 of 7

SARI Line 2006: Reach IV-B

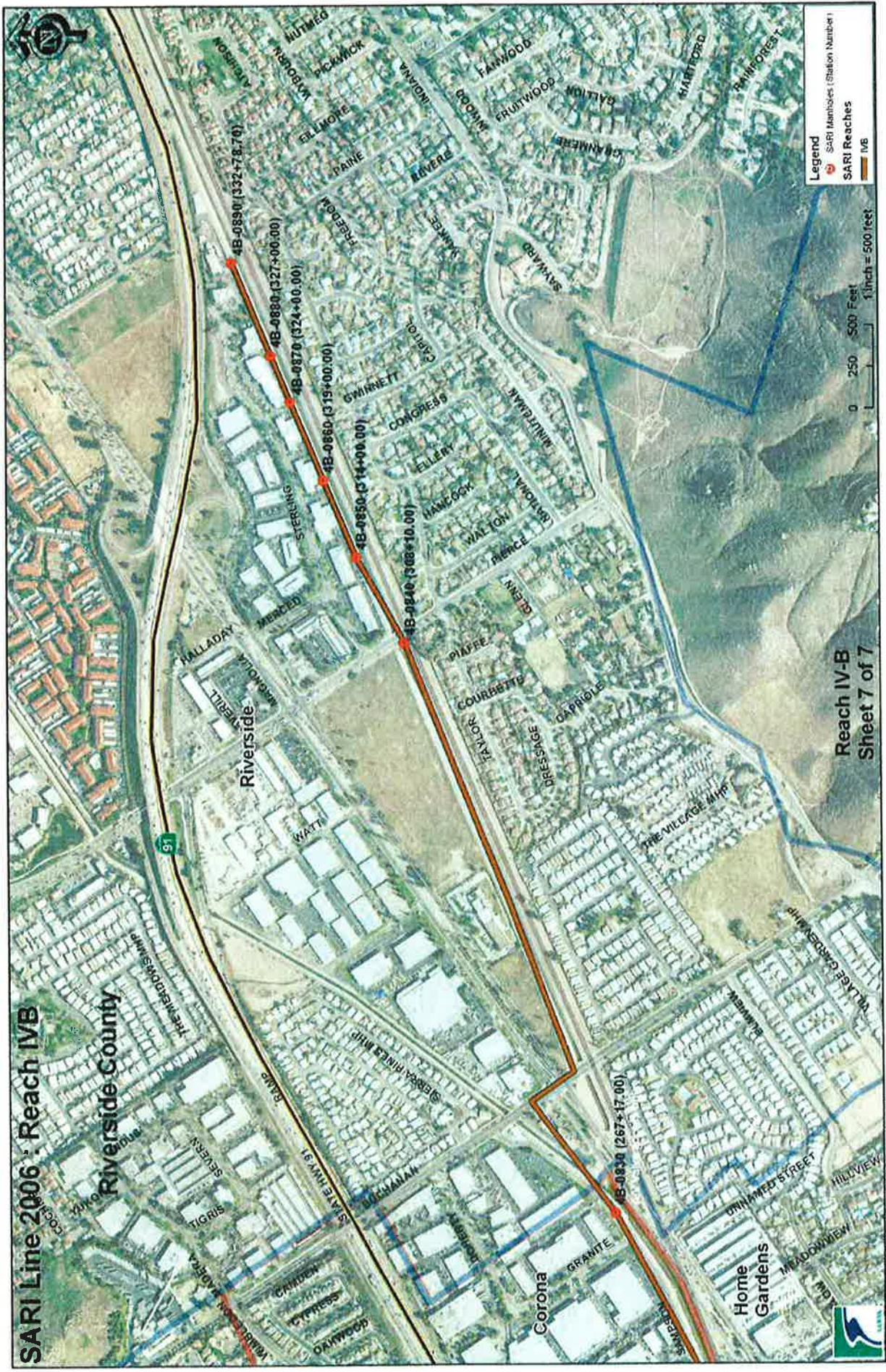
Riverside County
SAN JACINTO
PARKROSE
REED
MAYER
CRESTA
FERMINO
SHADOWDALE
RIPONDALE
WYNOLA
VERDURA
WOODDALE
Corona



Reach IV-B
Sheet 5 of 7



SARI Line 2006 : Reach IV-B



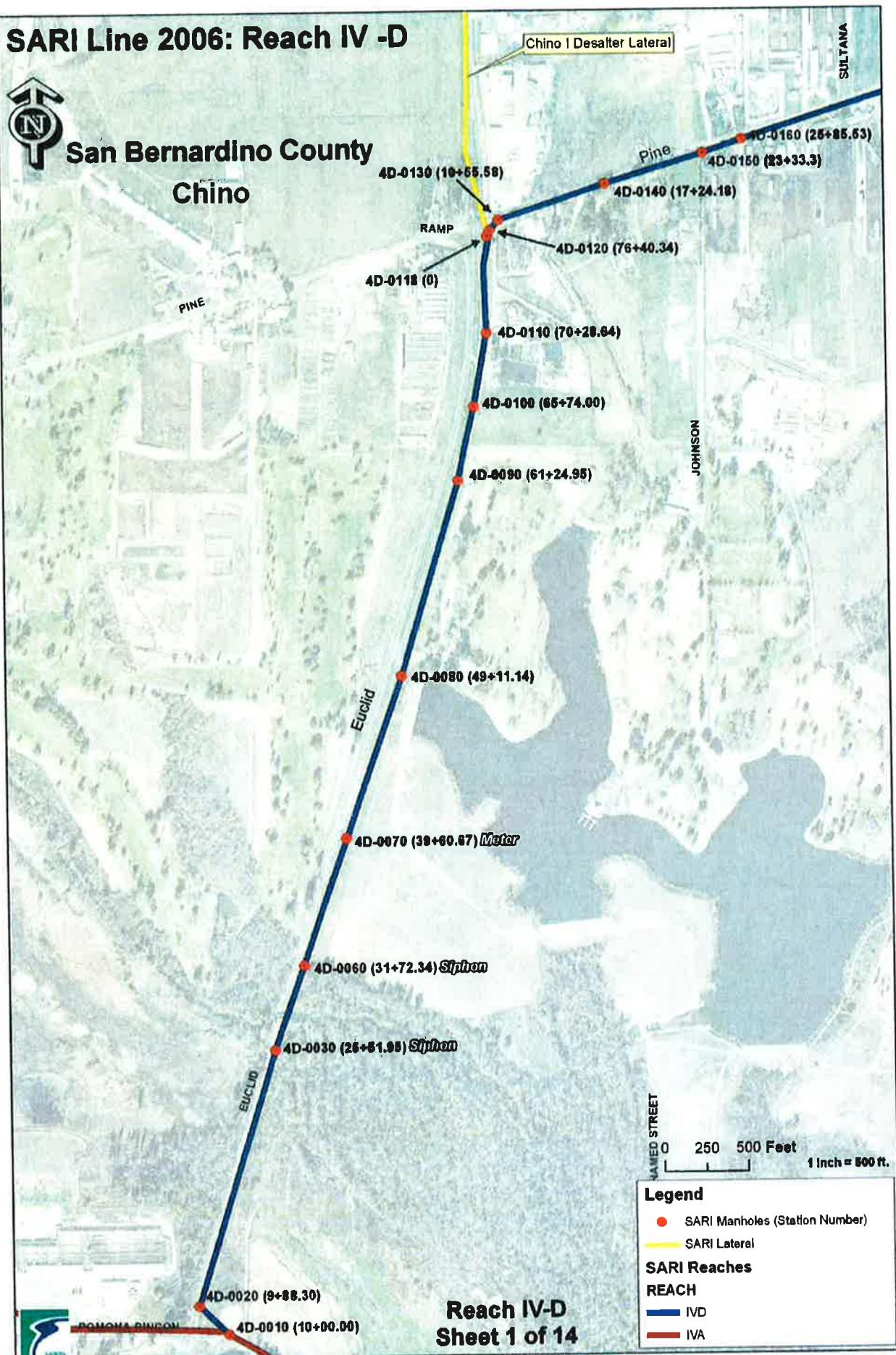
REACH

IV~D

SARI Line 2006: Reach IV -D



San Bernardino County
Chino



SARI Line 2006: Reach IV-D



San Bernardino County

CUCAMONGA

CHINO CORONA

UNNAME STREET

GROVE

BICKMORE

Chino

WALKER

PINE
4D-0270 (110+90.29)
PINE
4D-0260 (100+70.29)
4D-0250 (90+50.29)
4D-0240 (80+30.29)

4D-0230 (72+40.29)

4D-0220 (64+73.35)
4D-0210 (63+94.29)
4D-0200 (50+31.45)
4D-0180 (45+28.00)
4D-0170 (37+46.01)

PINE

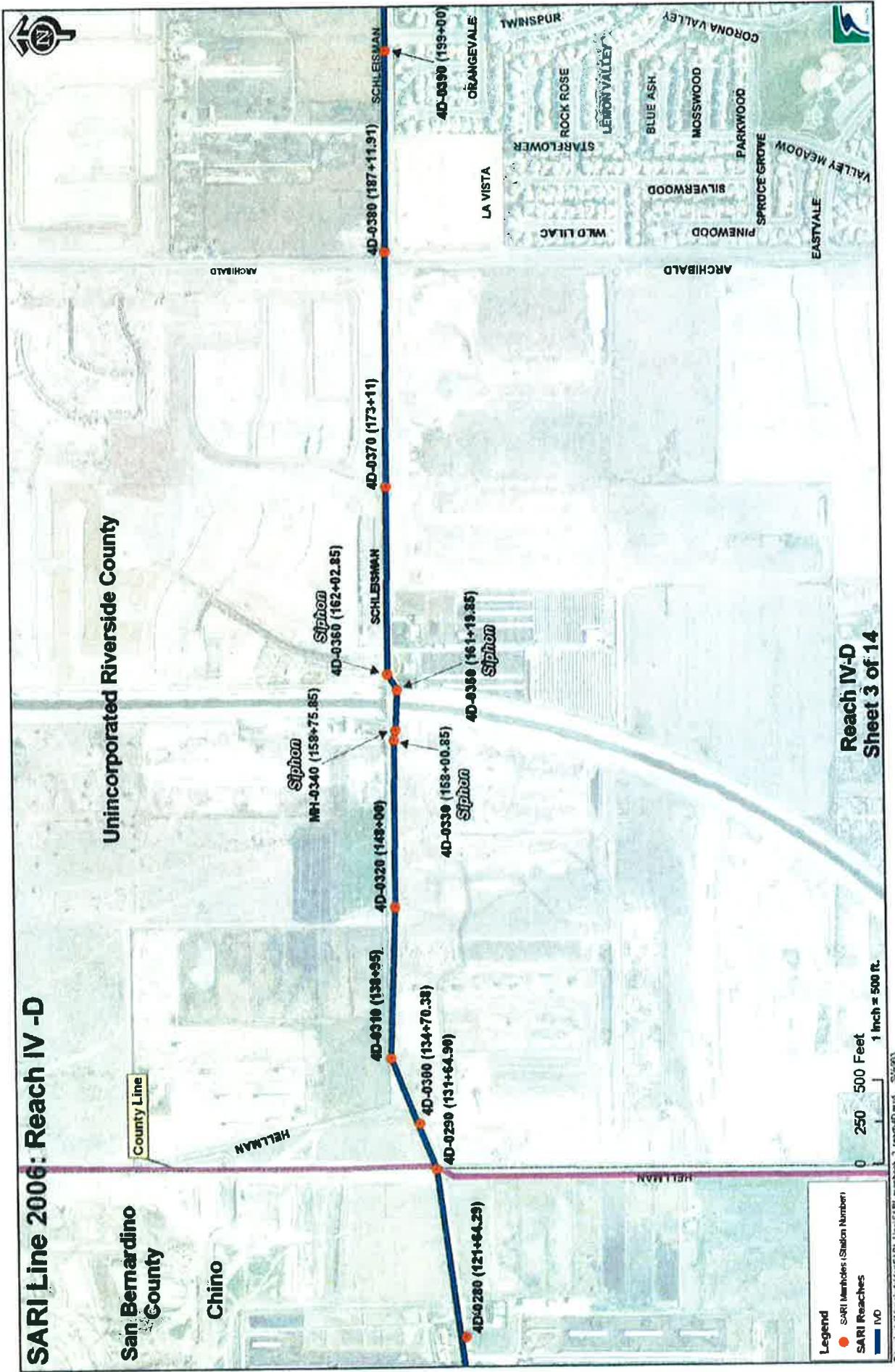
Chino Institute for Women

IEUA/Composting Facility

Legend
SARI Manholes (Station Number)
SARI Lateral
SARI Reaches

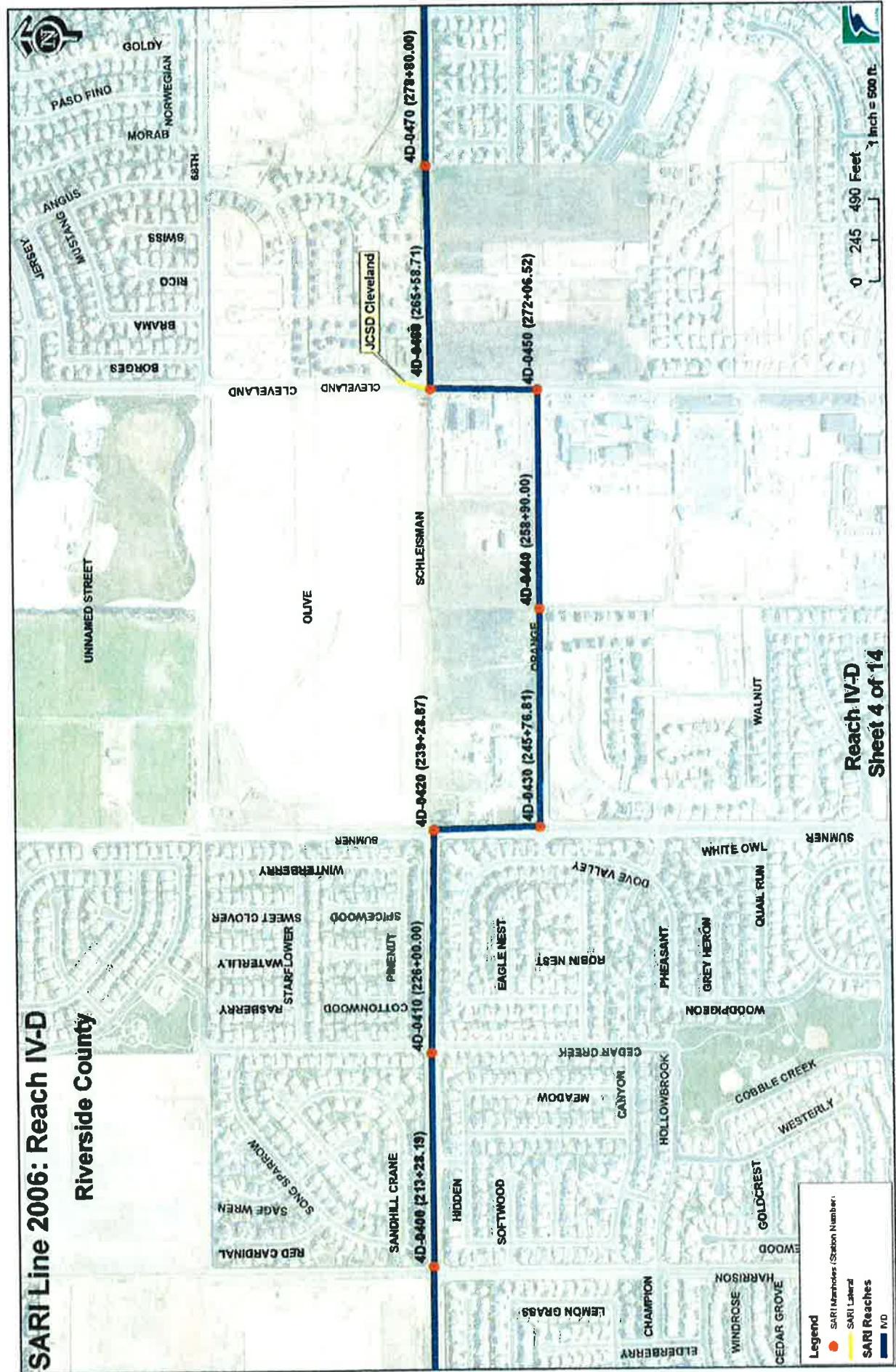
Reach IV-D
Sheet 2 of 14

SARI Line 2006: Reach IV -D



SARI Line 2006: Reach IV-D

Riverside County





SARI Line 2006: Reach IV-D

Riverside County

County Line

SB County
Ontario

UNNAMED STREET

115

JCSD Hammer
4D-0590 (10+82.37)
4D-0600 (23+94.51)
4D-0610 (25+97.00)

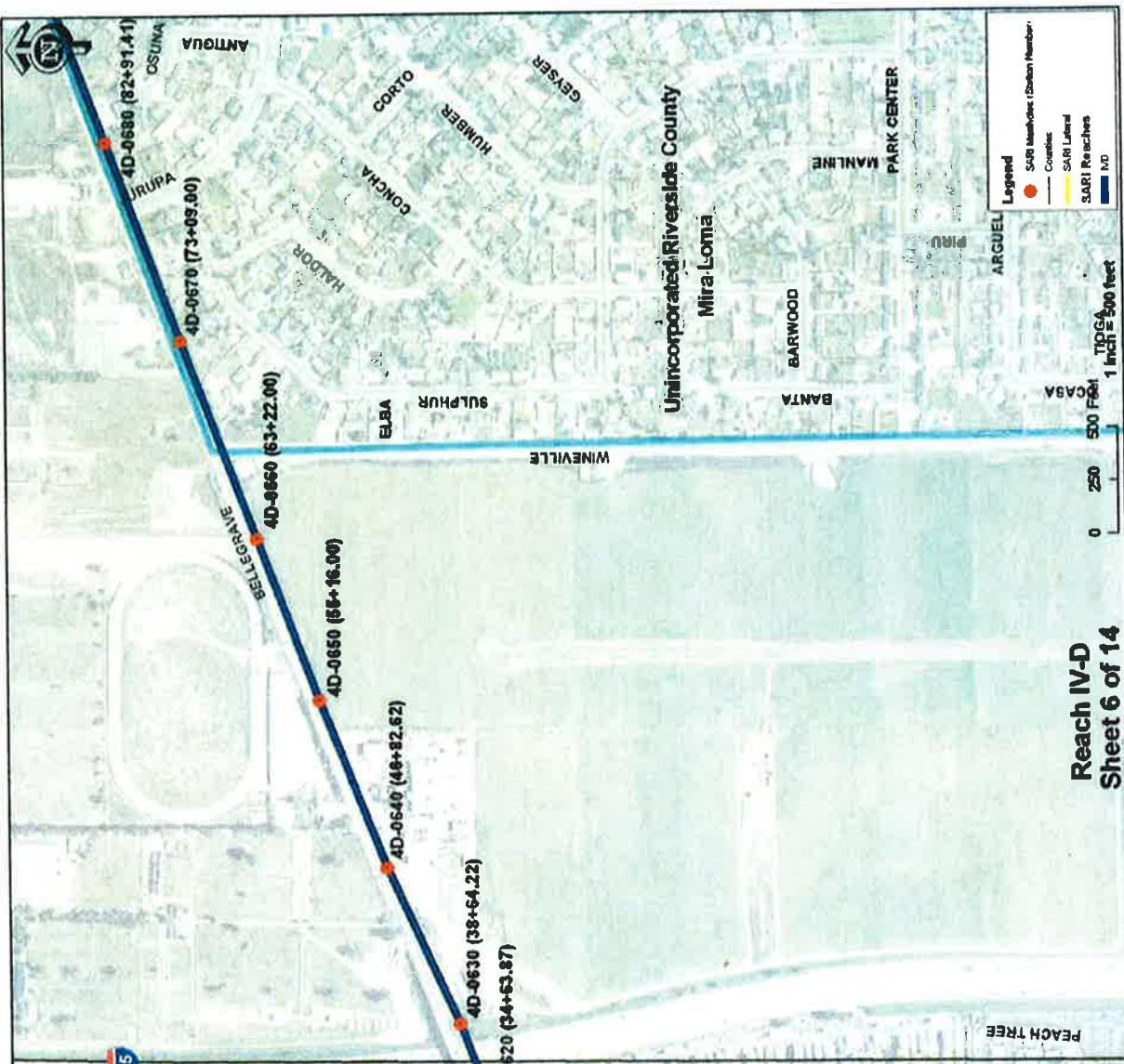
REMINGTON
4D-0630 (110+70.65)
4D-0670 (98+12.65)

JCSD Celebration Connection

AMBERWOOD
BECACHWOOD
CASTLE CREST
CHAPARRAL
DRAKE
EDGEMONT
FOUNTAIN
GREENLEAF
EVERGREEN
GOLDEN
LAUREL
LIVE OAK
MY GLEN
PEACH TREE

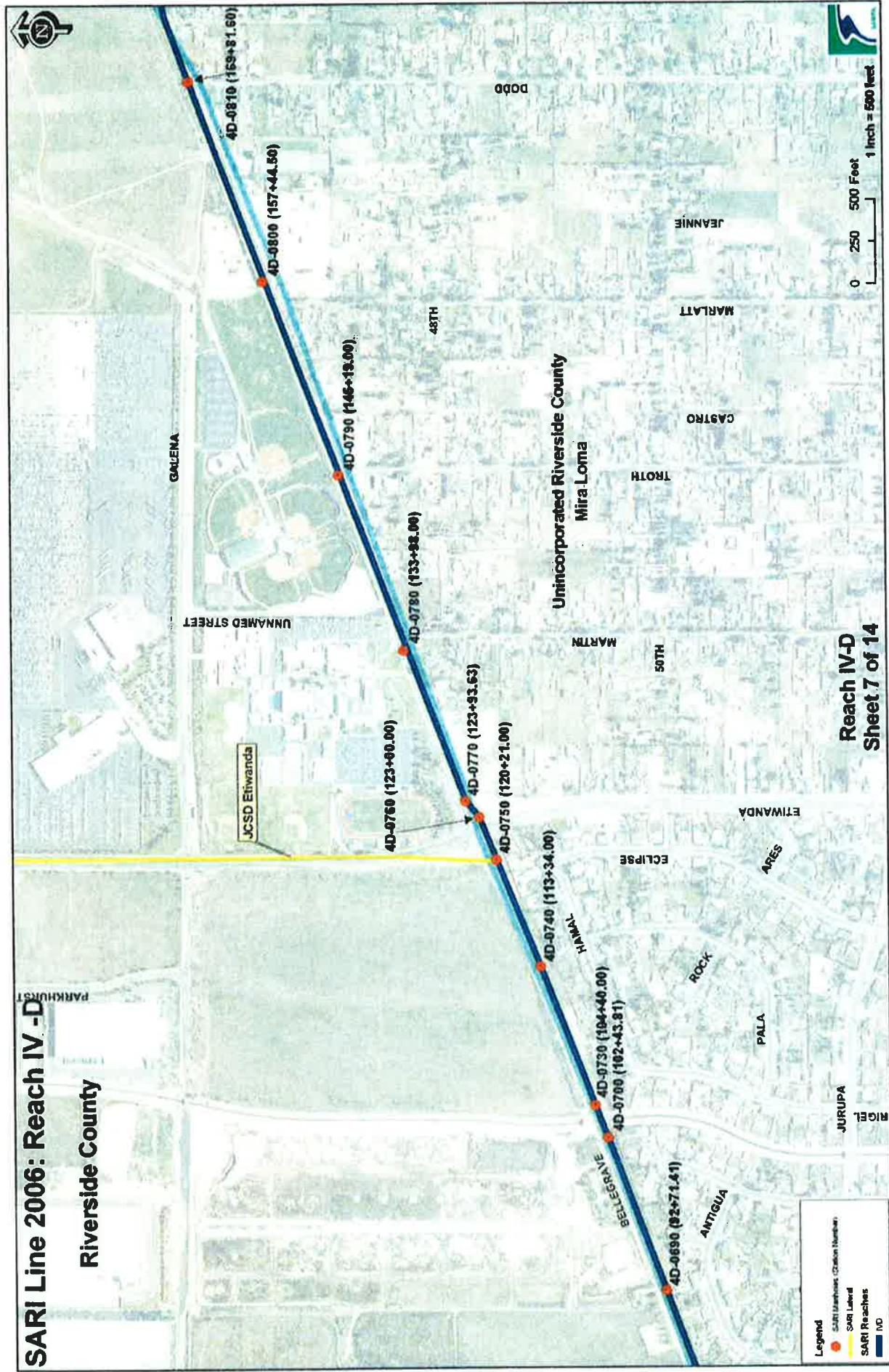
Project Name: 500' Sided SARI Line (SARILine) - Sheet 40 of 40

Reach IV-D
Sheet 6 of 14

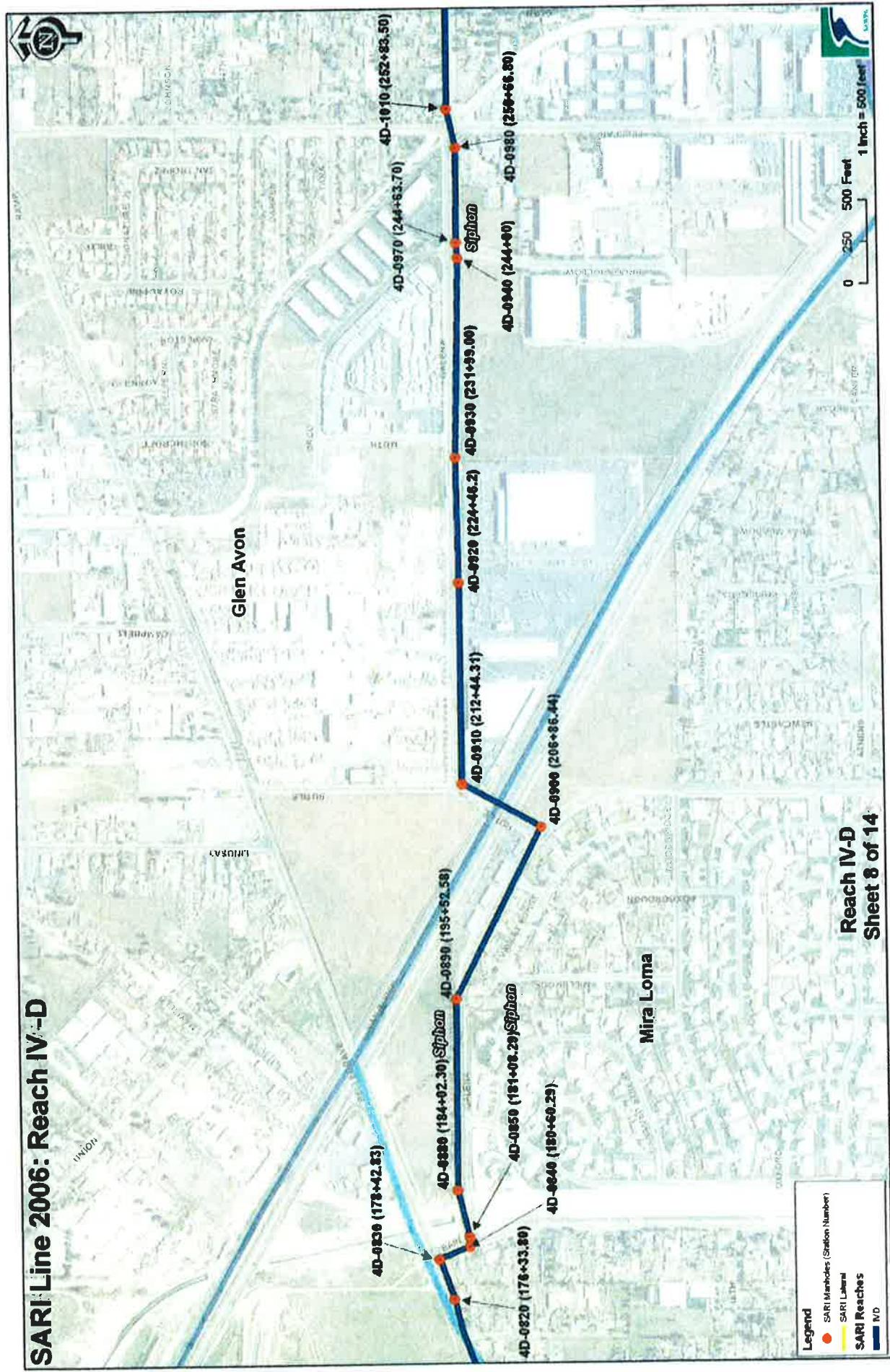


SARI Line 2006: Reach IV-D

Riverside County



SARI Line 2006: Reach IV-D

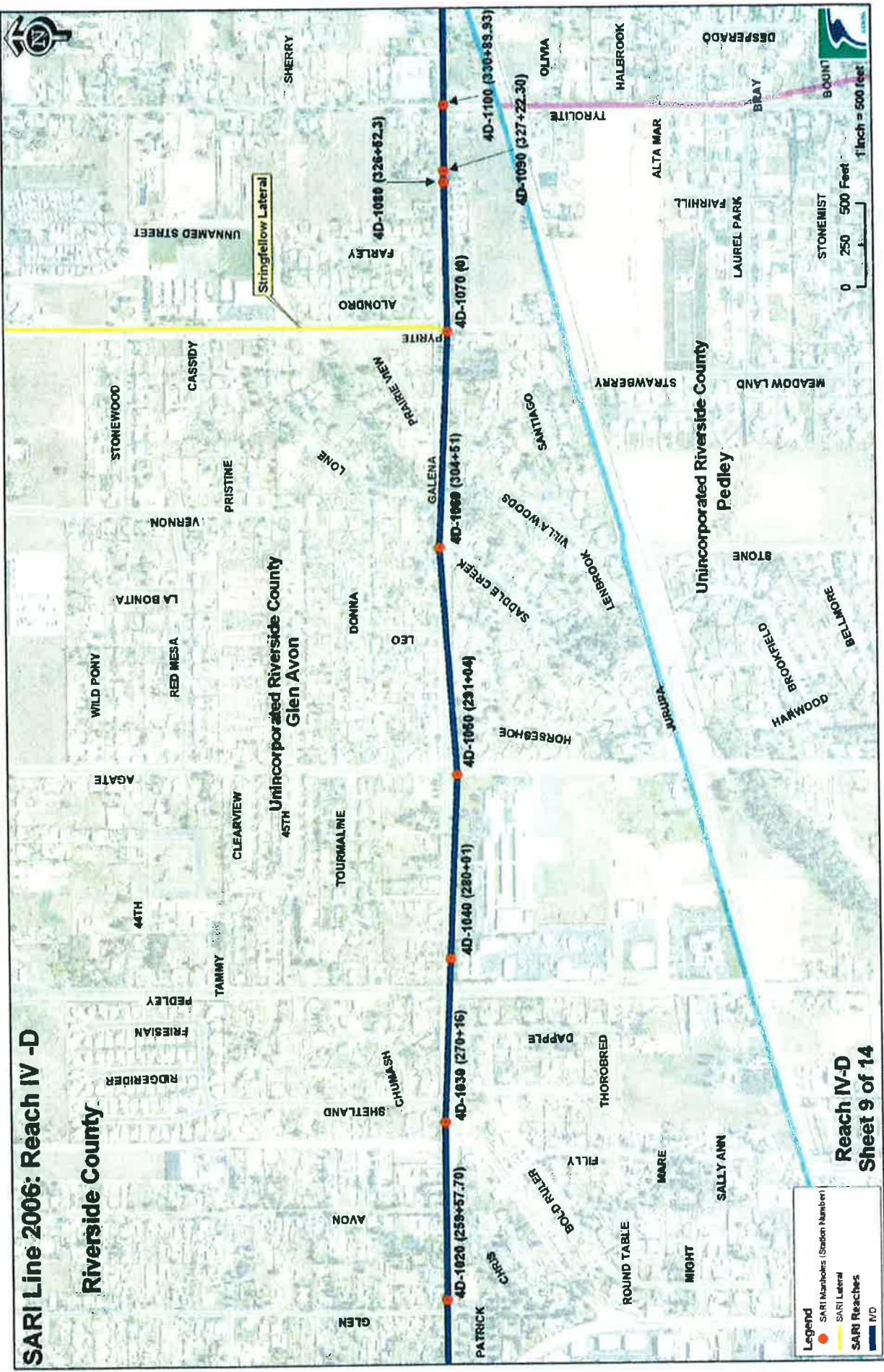


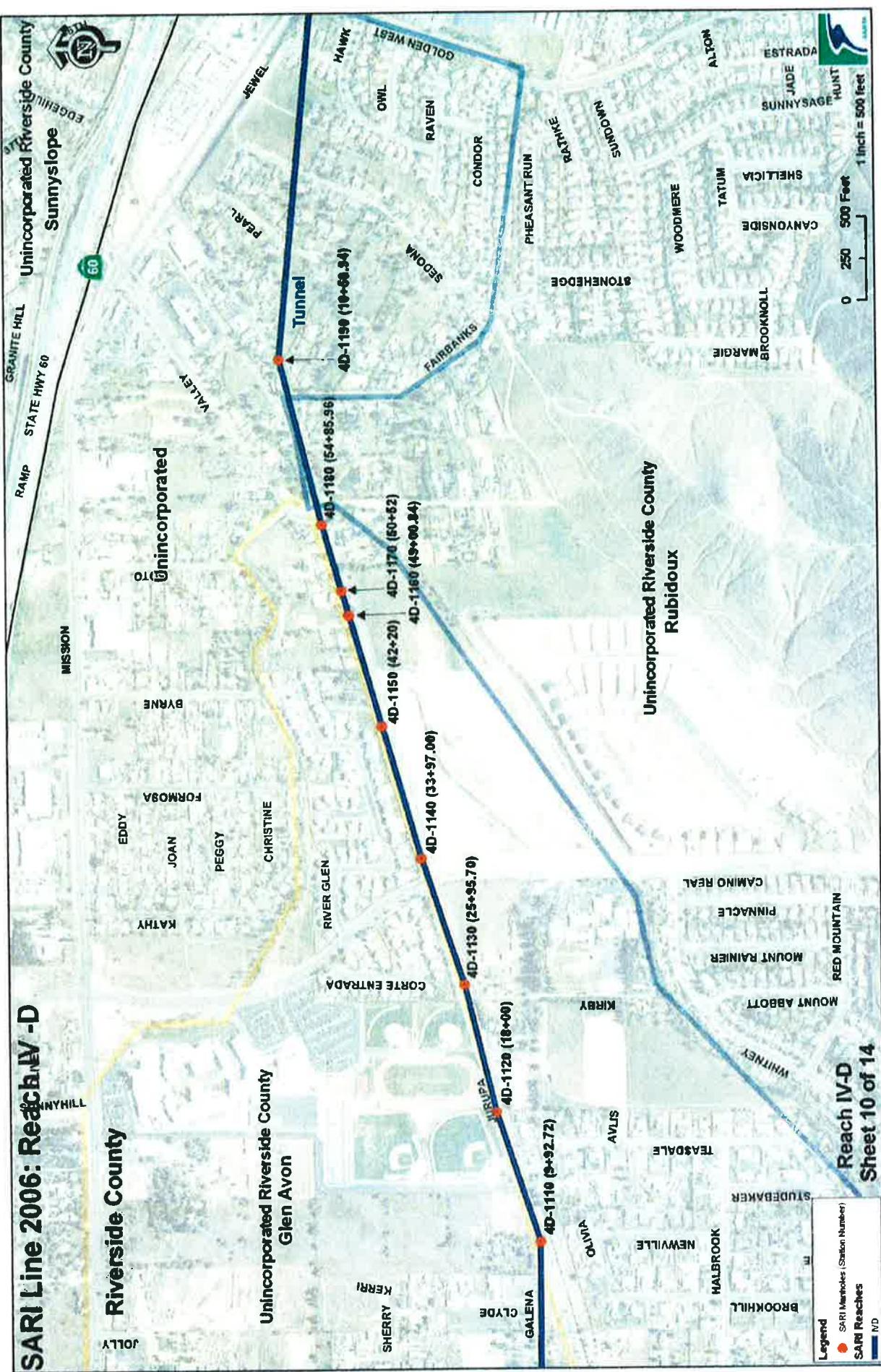
Reach IV-D
Sheet 8 of 14

Legend
SARI Stations (Station Number)
SARI Line
SARI Reaches
ND

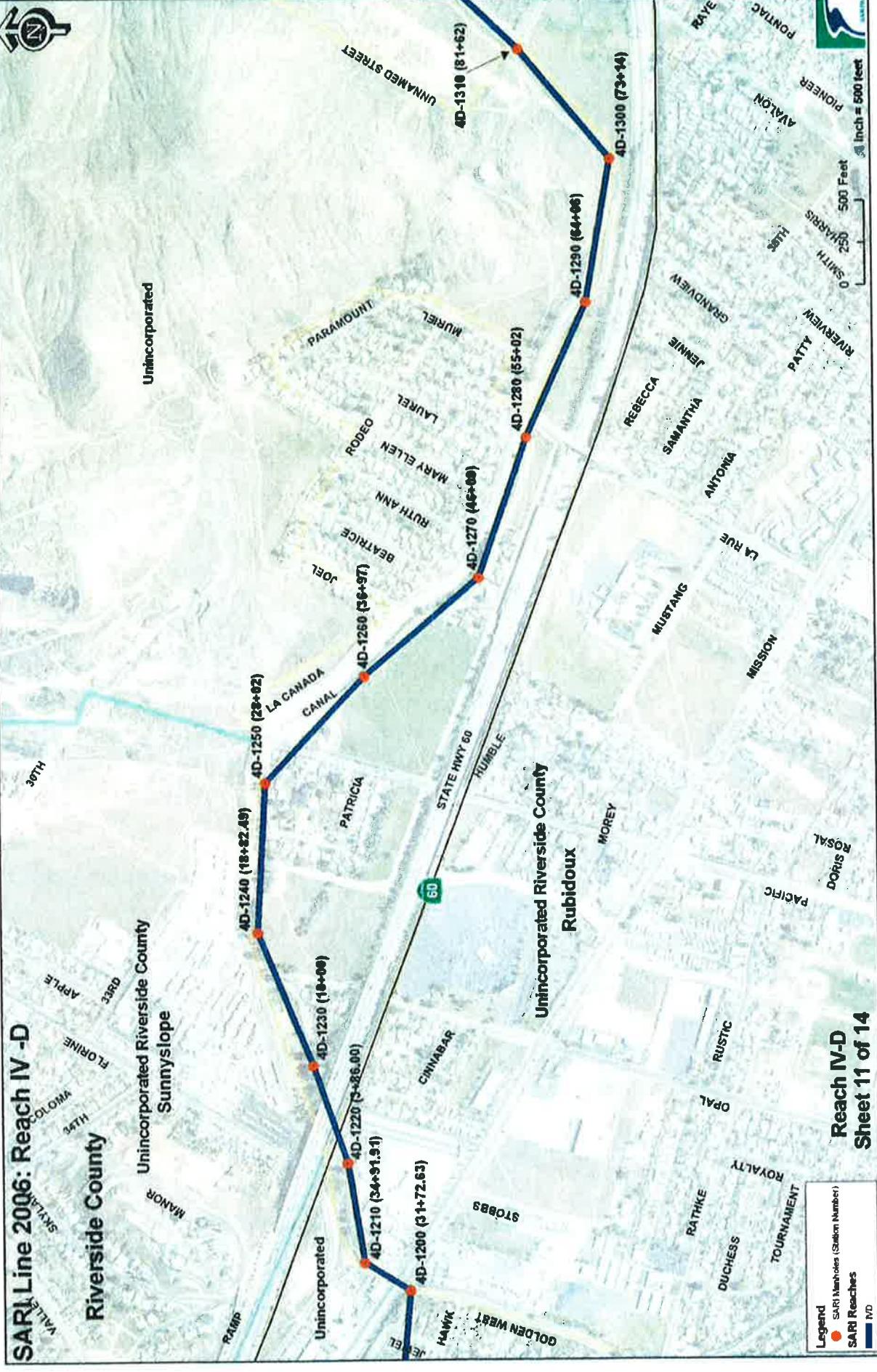
SARI Line 2006: Reach IV-D

Riverside County





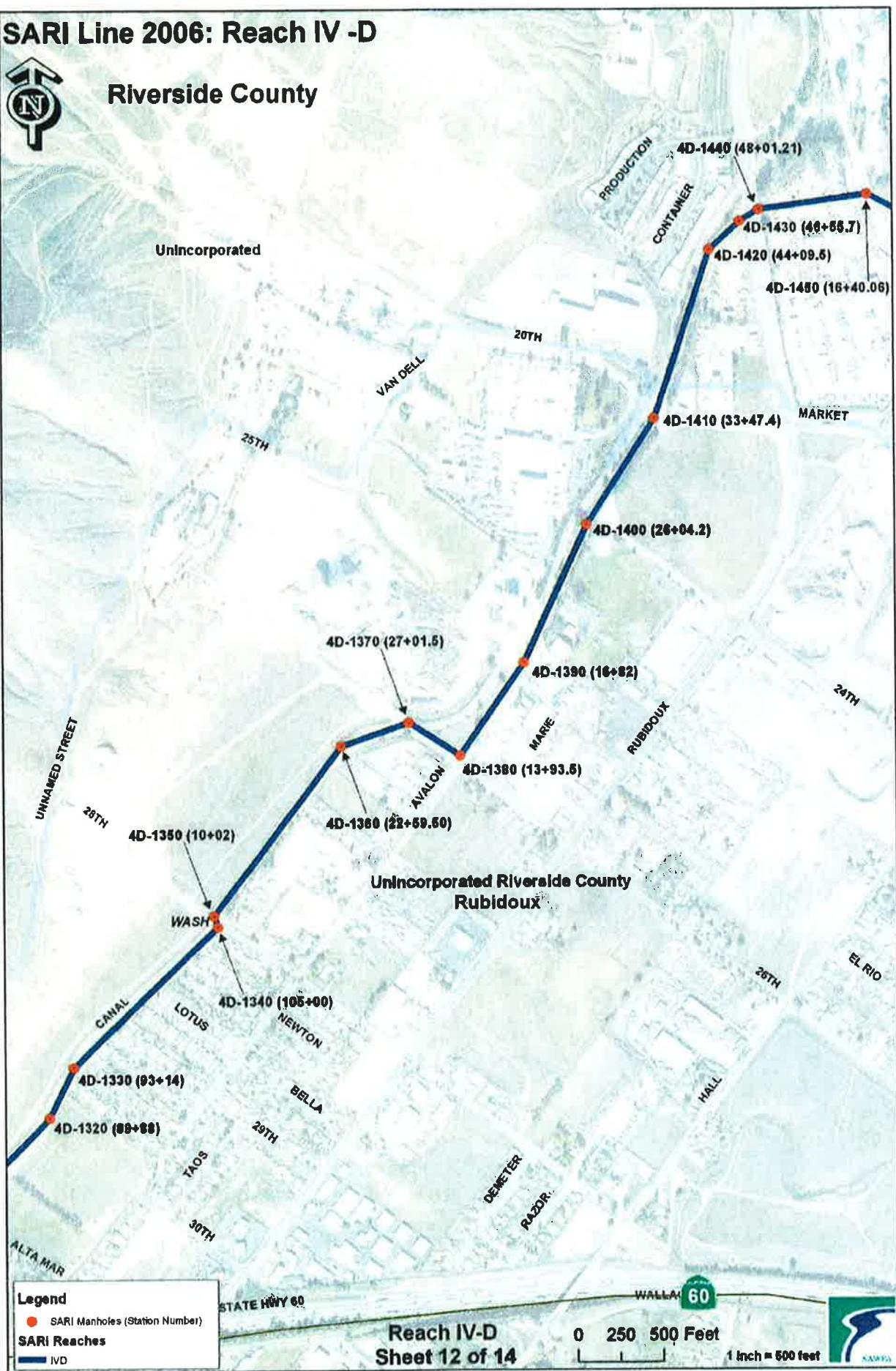
SARI Line 20Q6: Reach IV-D



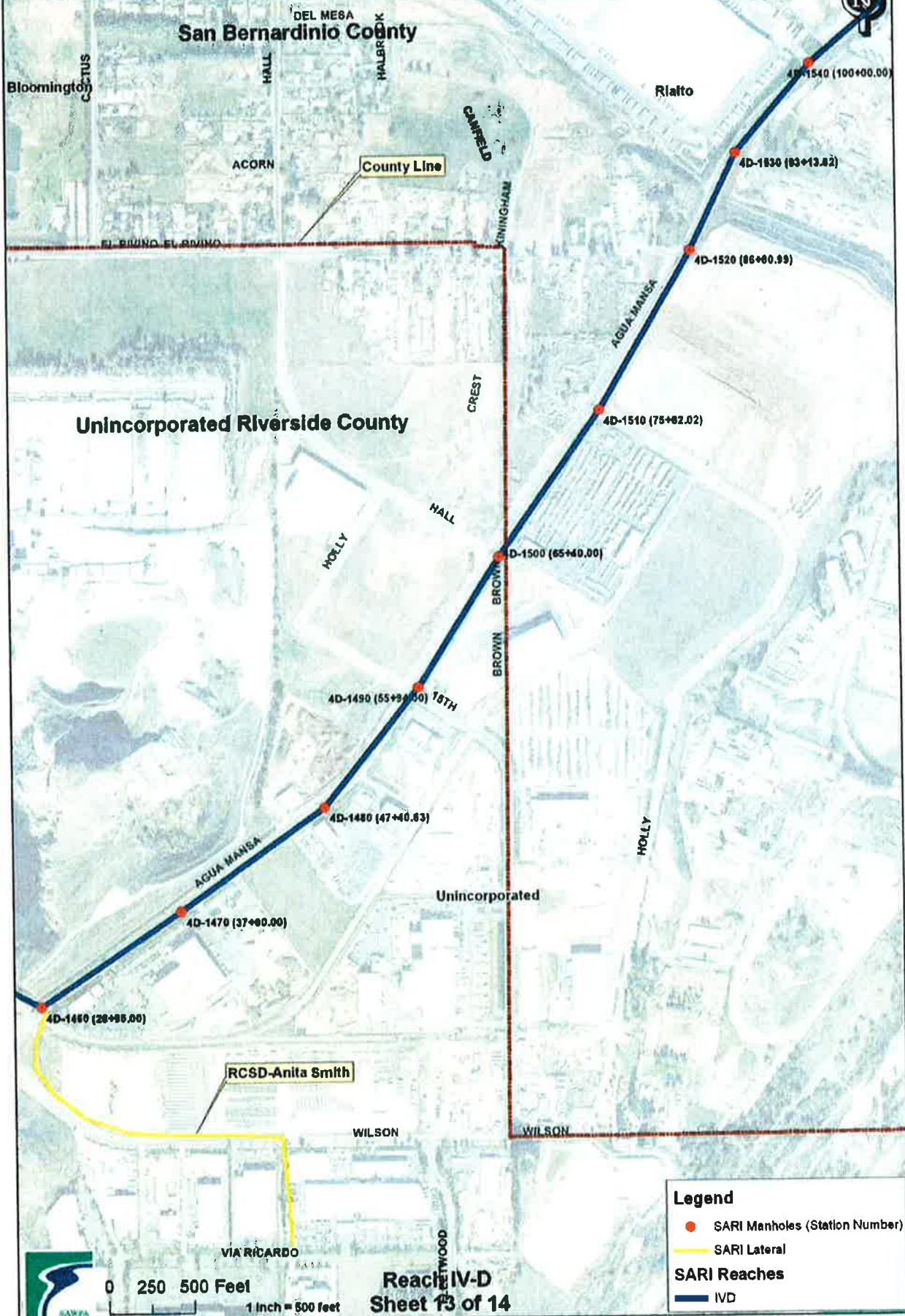
SARI Line 2006: Reach IV -D



Riverside County



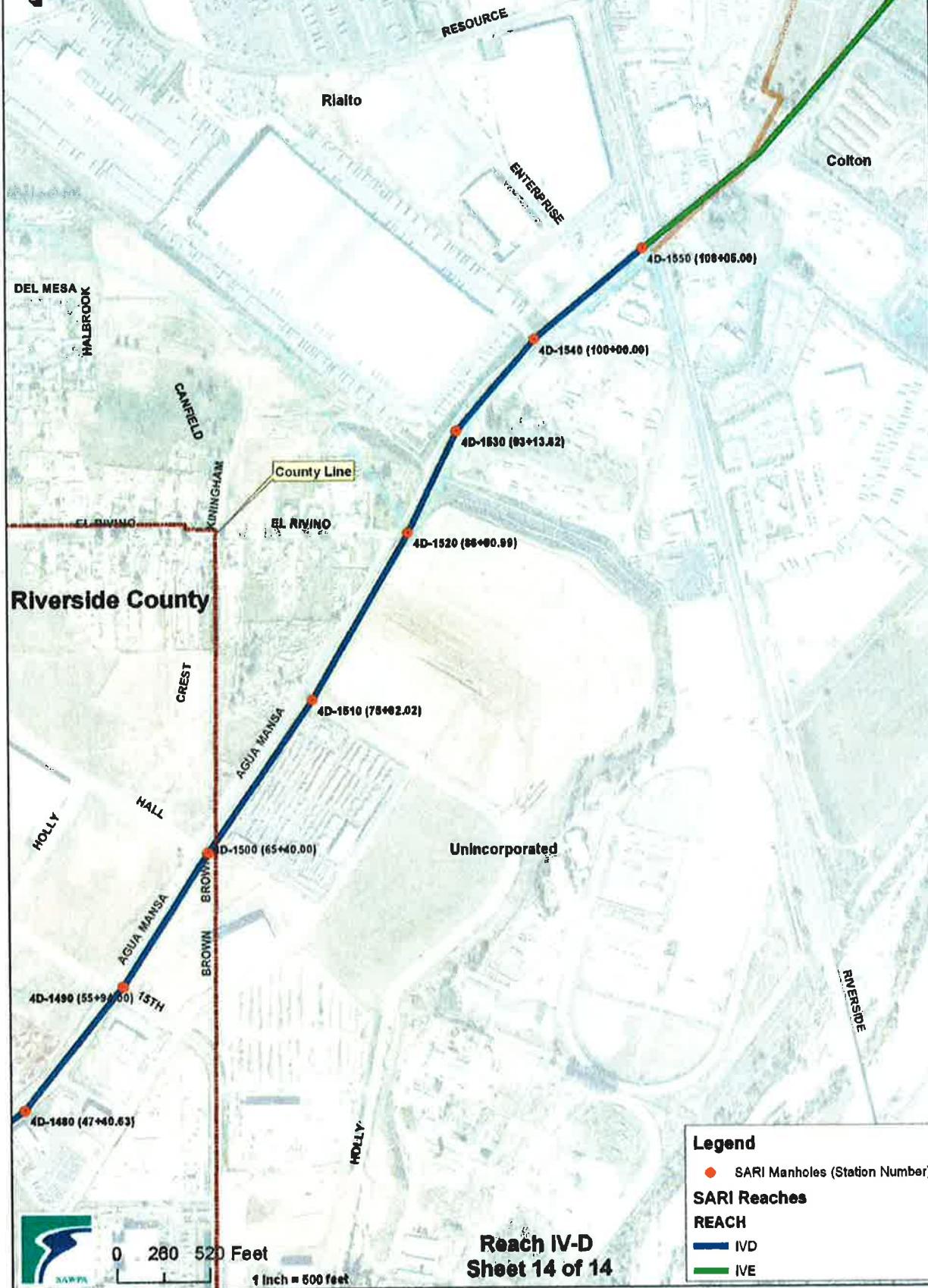
SARI Line 2006 Reach IV -D



SARI Line 2006: Reach IV -D



San Bernardino County



Reach IV-D
Sheet 14 of 14



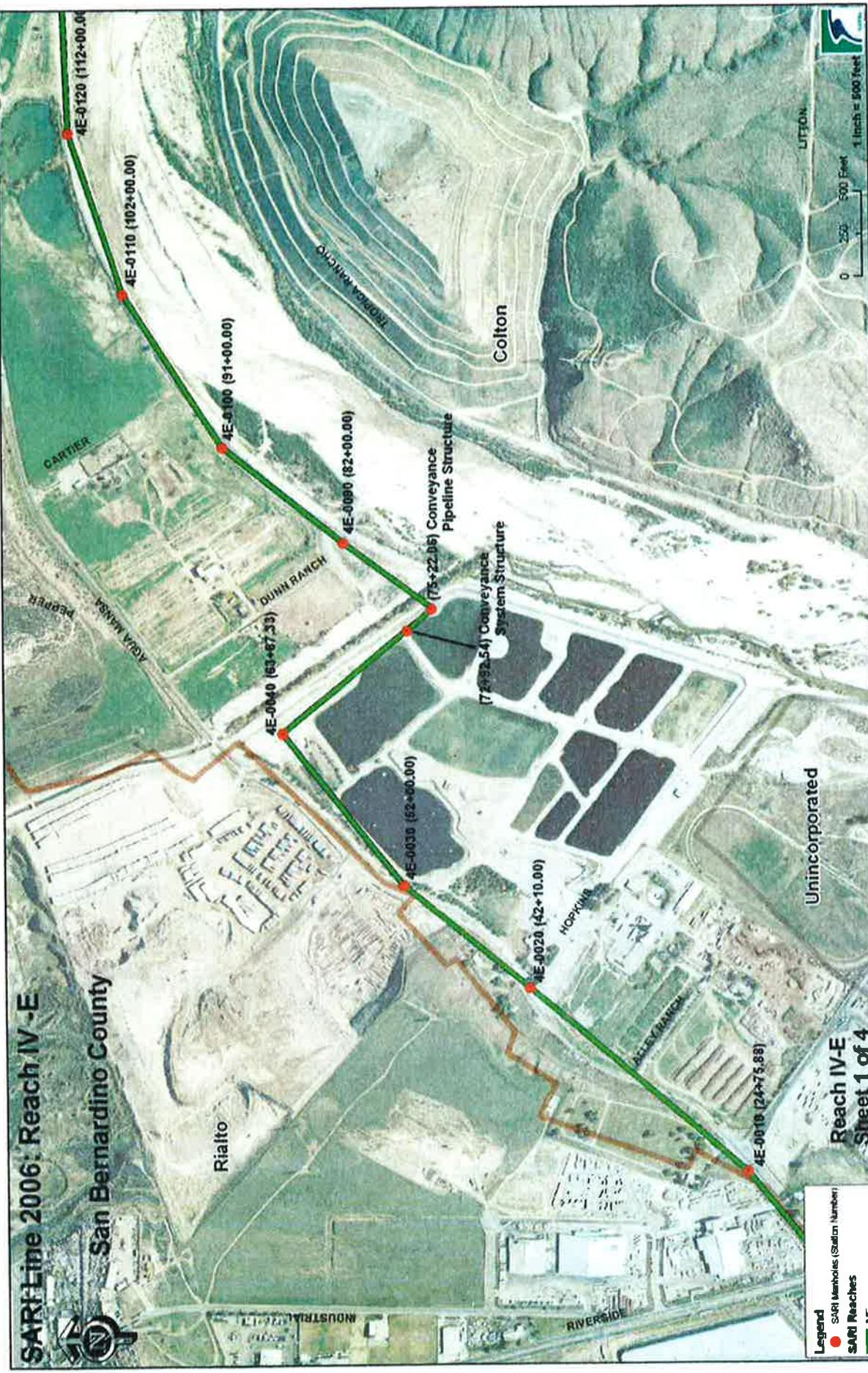
0 280 520 Feet

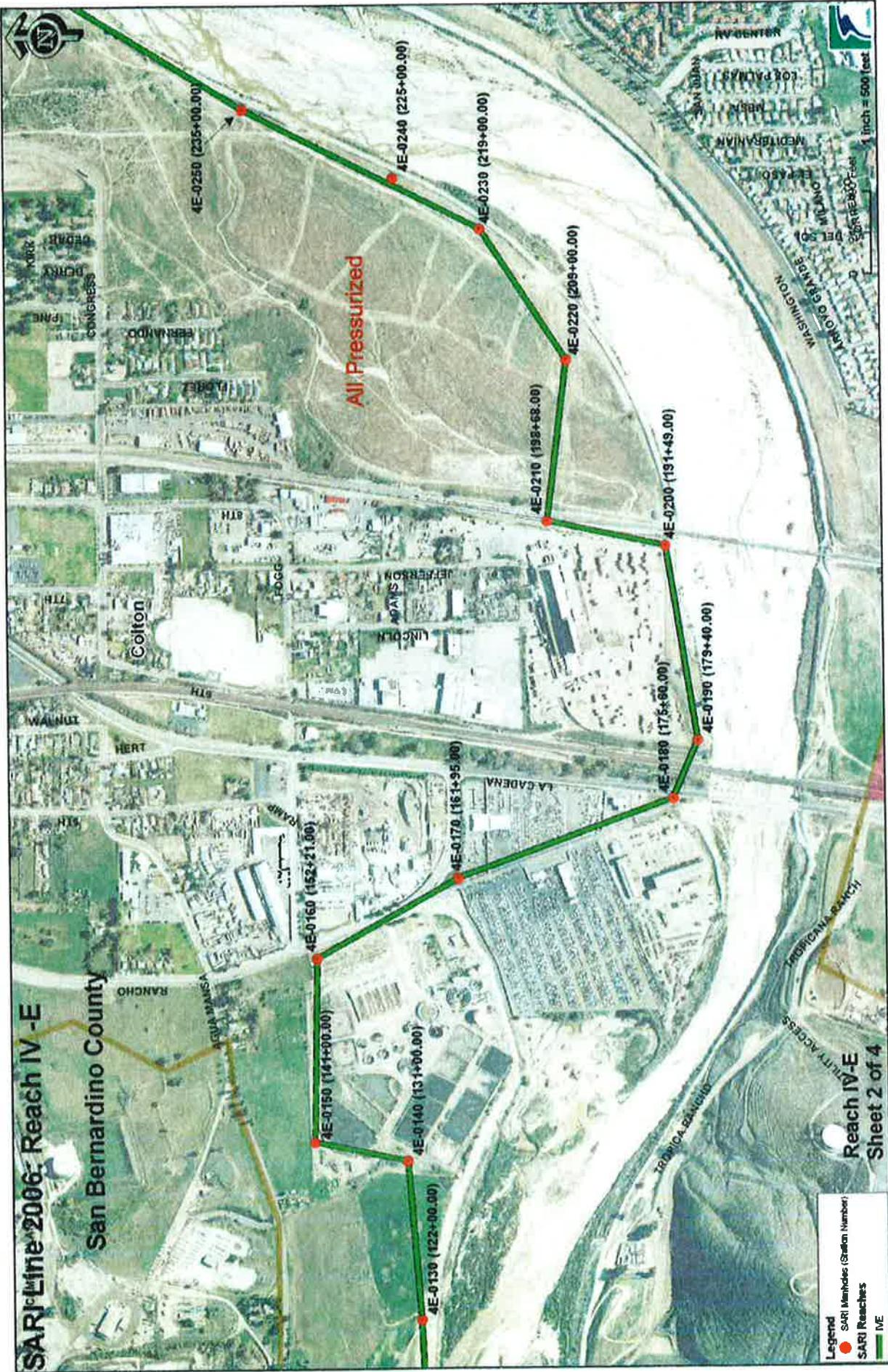
1 Inch = 500 feet

REACH

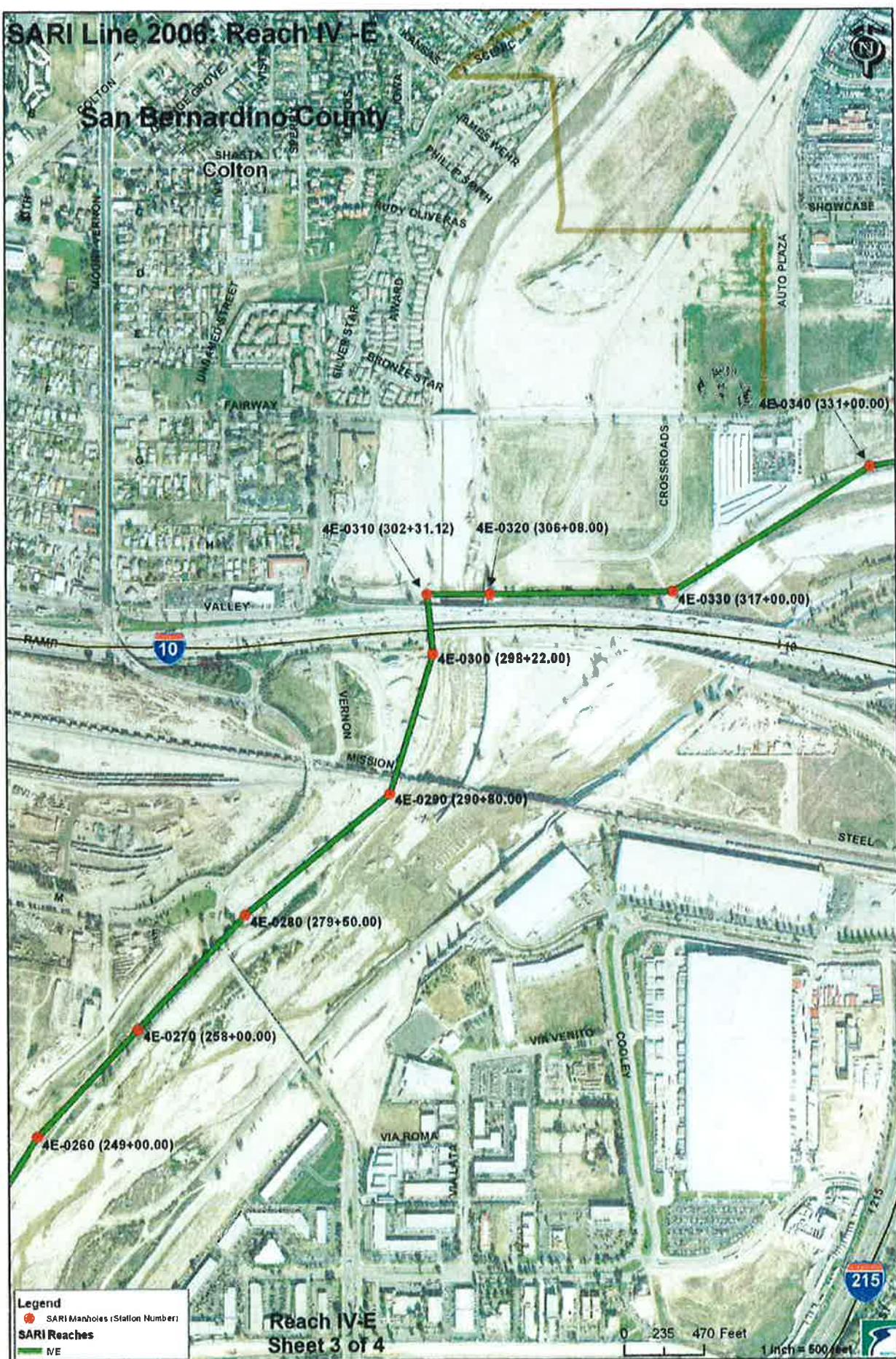
IV~E

SARI Line 2006: Reach IV-E





SARI Line 2006: Reach IV-E



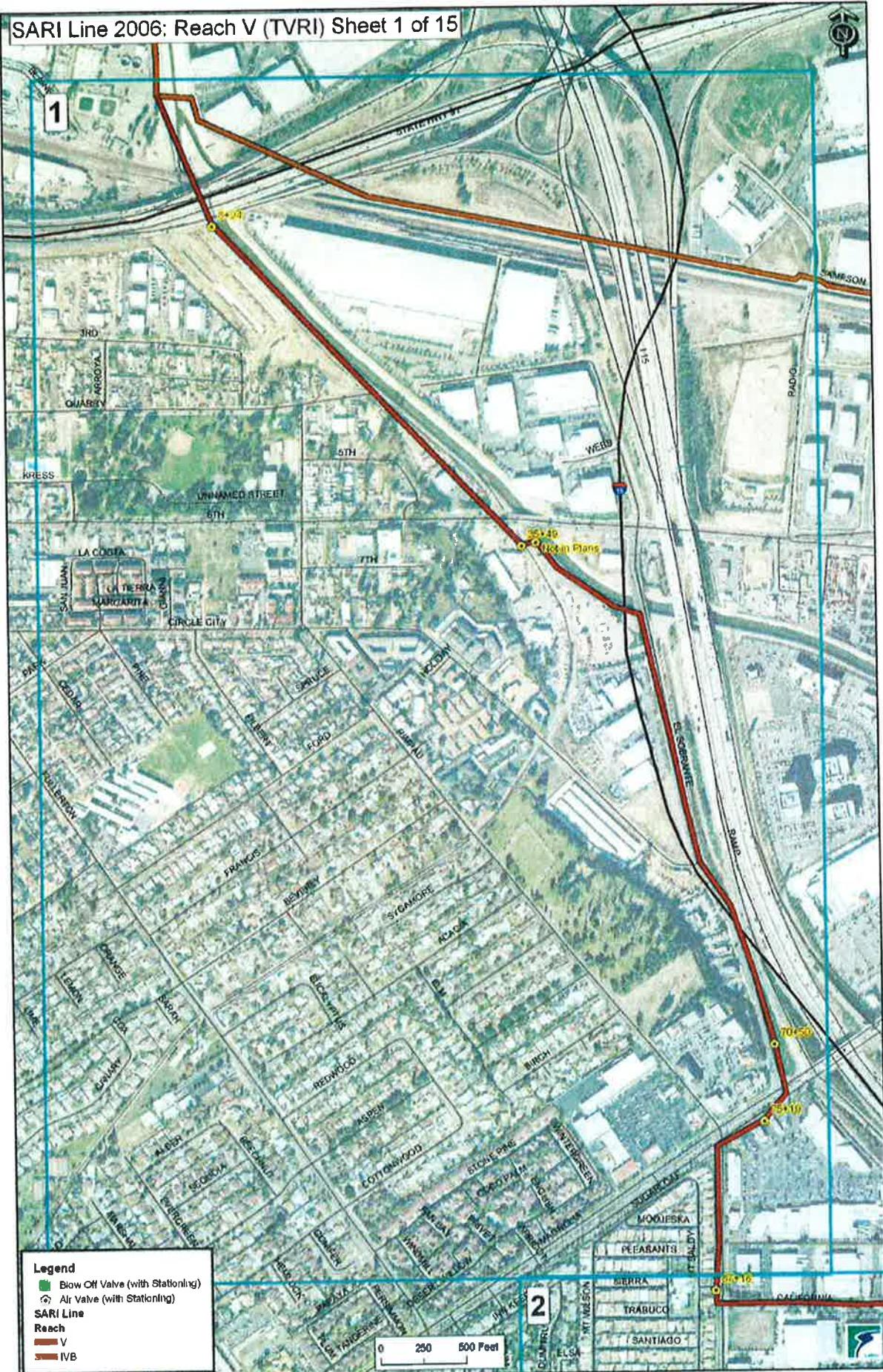
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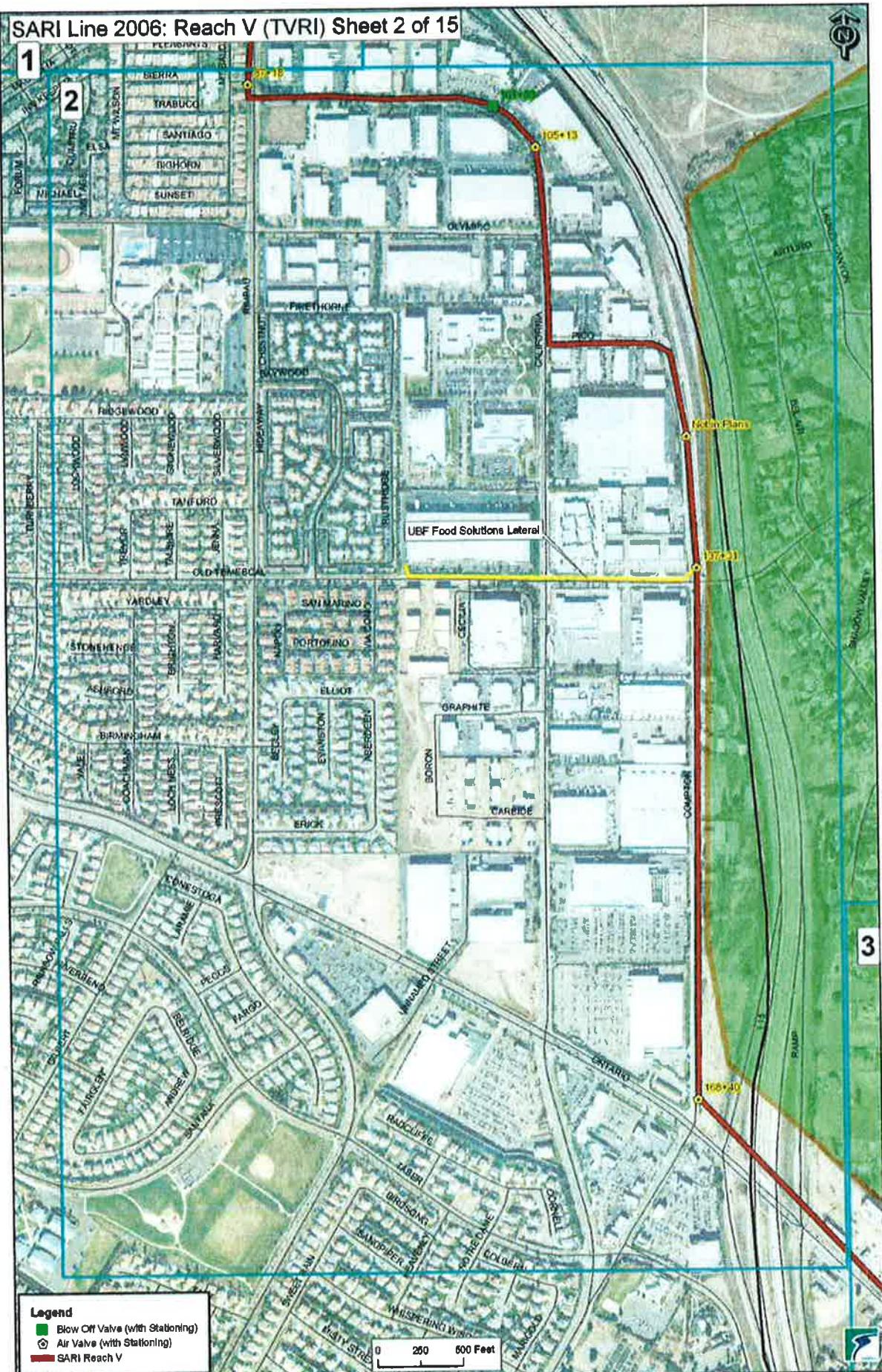
REACH

V

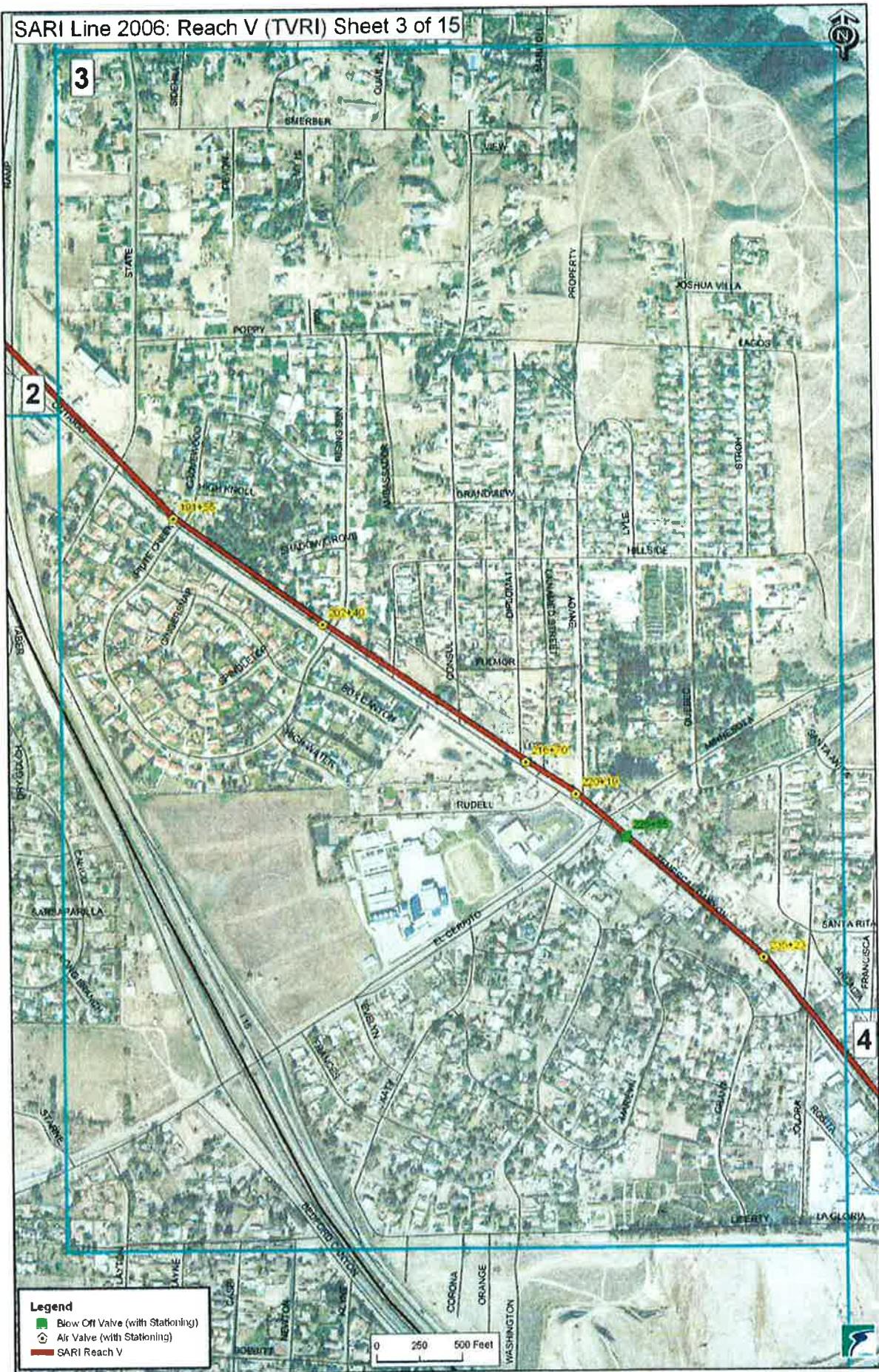
SARI Line 2006: Reach V (TVRI) Sheet 1 of 15



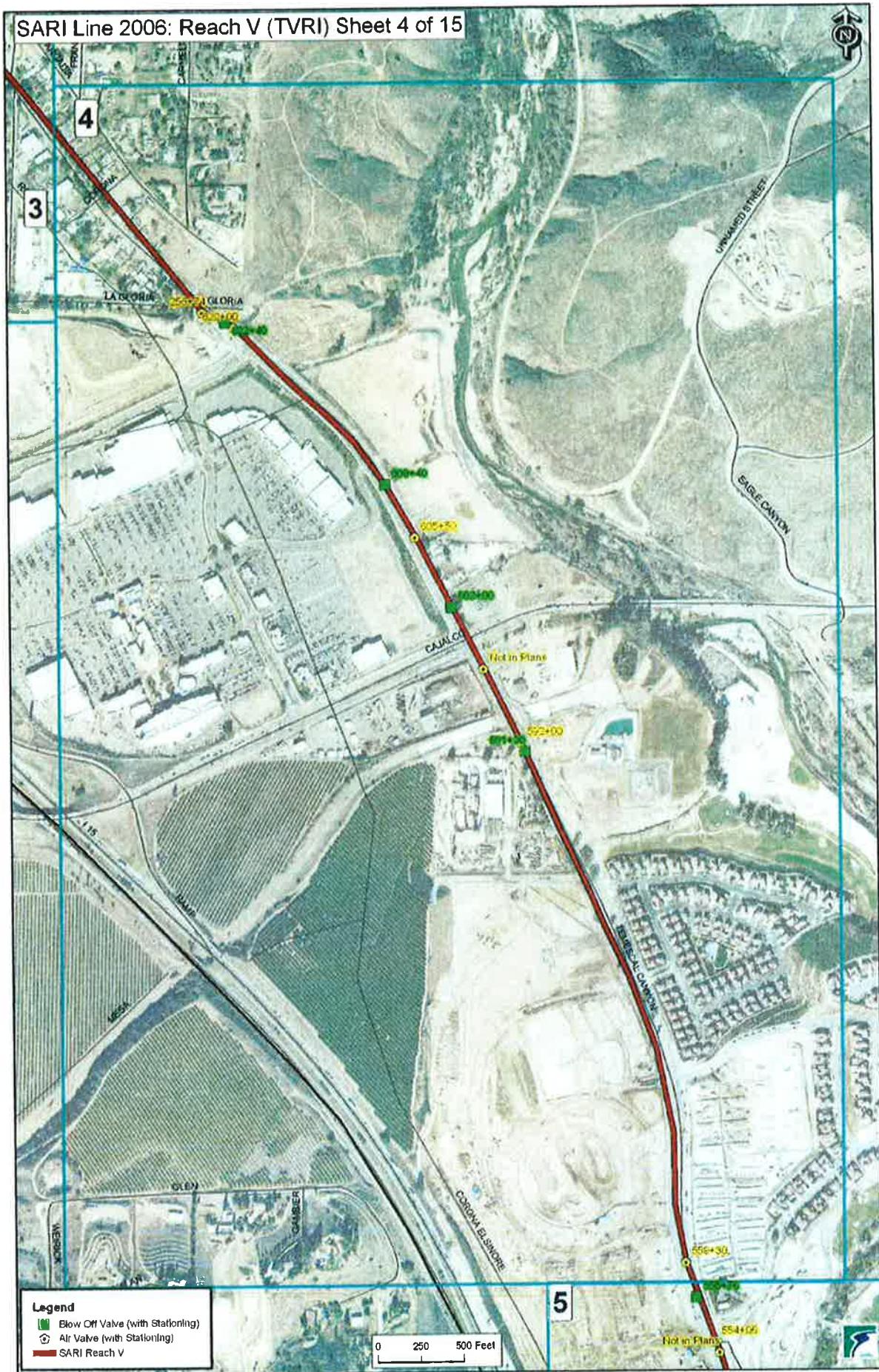
SARI Line 2006: Reach V (TVRI) Sheet 2 of 15



SARI Line 2006: Reach V (TVRI) Sheet 3 of 15



SARI Line 2006: Reach V (TVRI) Sheet 4 of 15

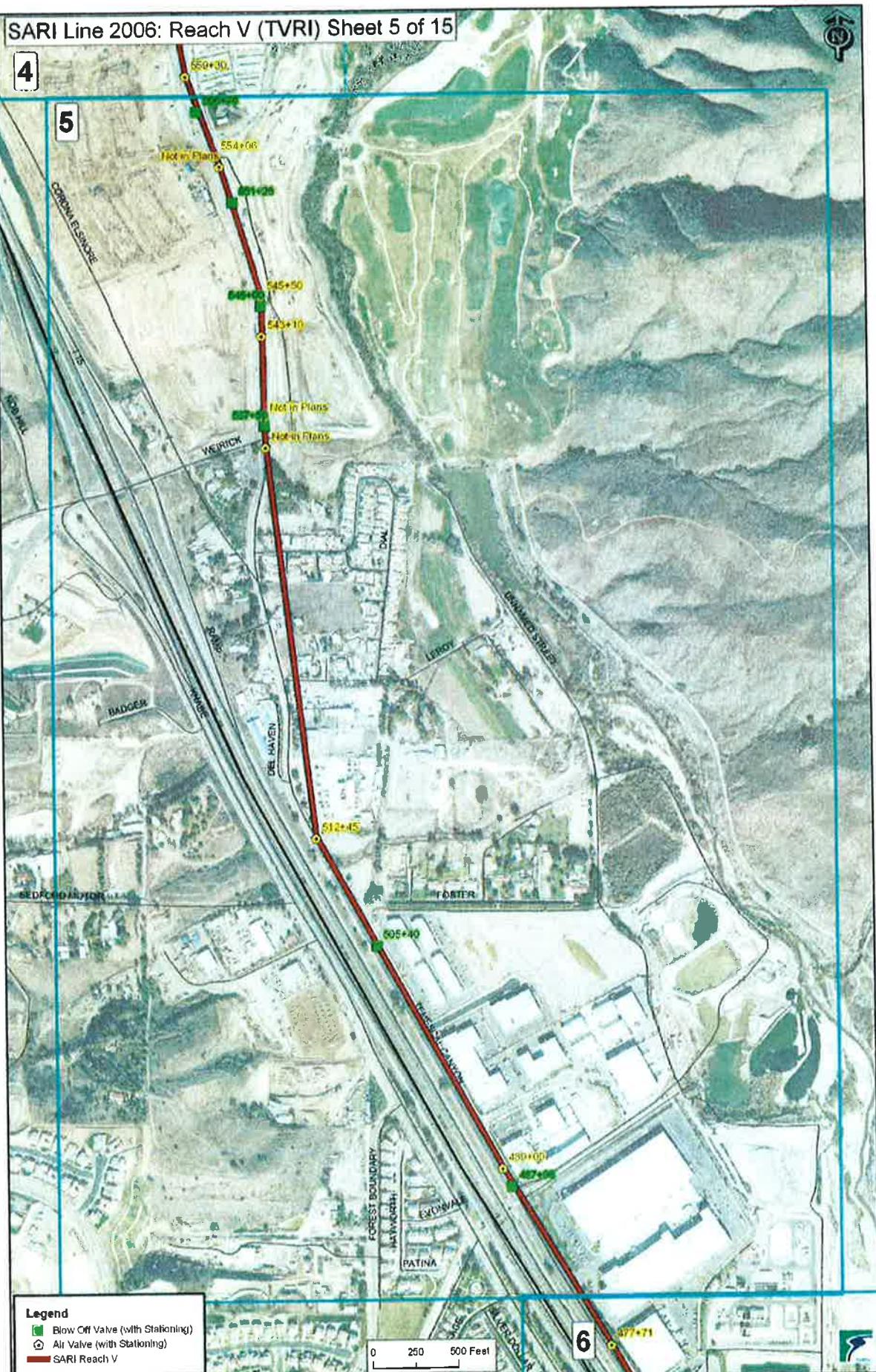


SARI Line 2006: Reach V (TVRI) Sheet 5 of 15

4

5

6

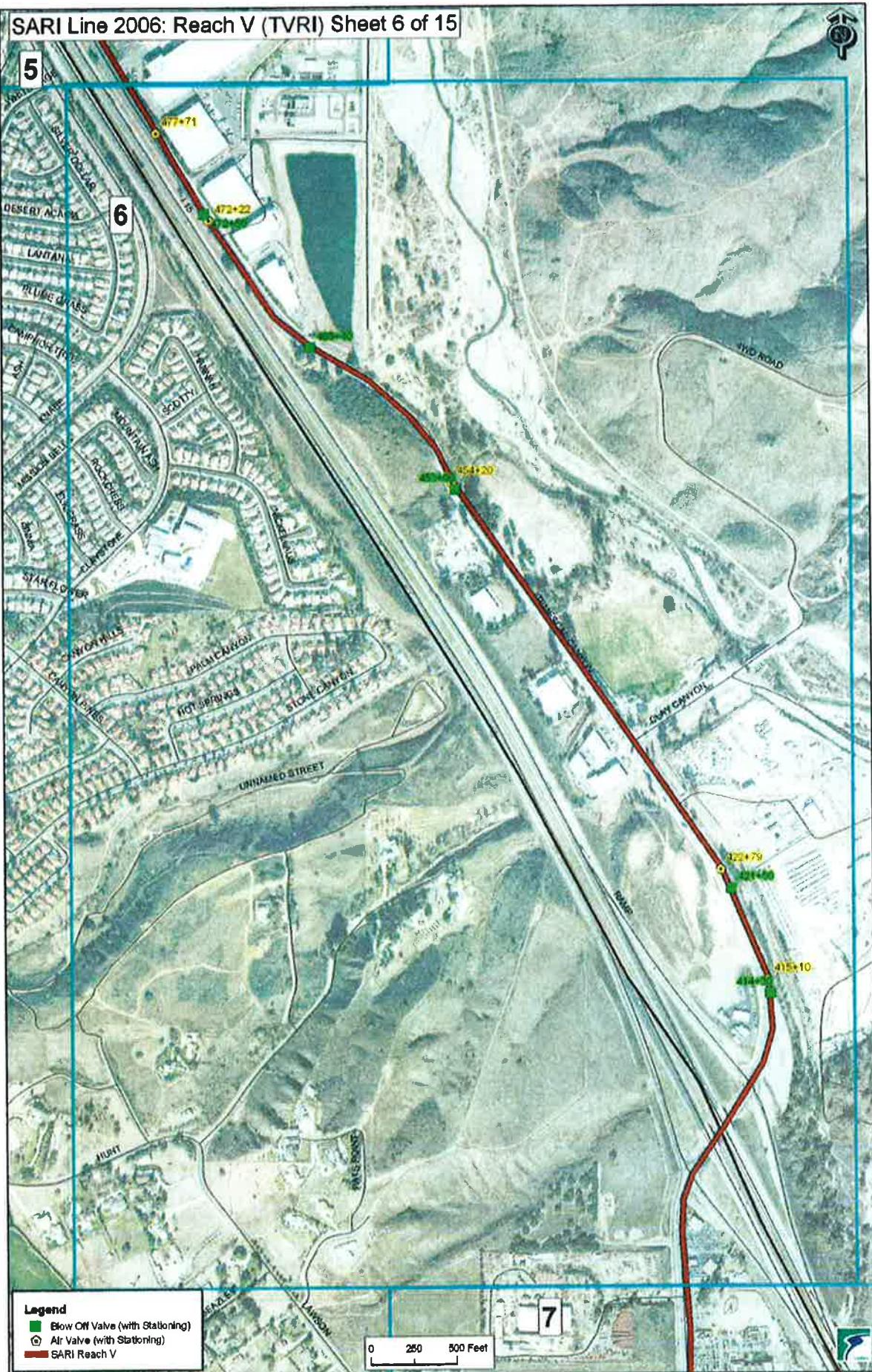


Legend

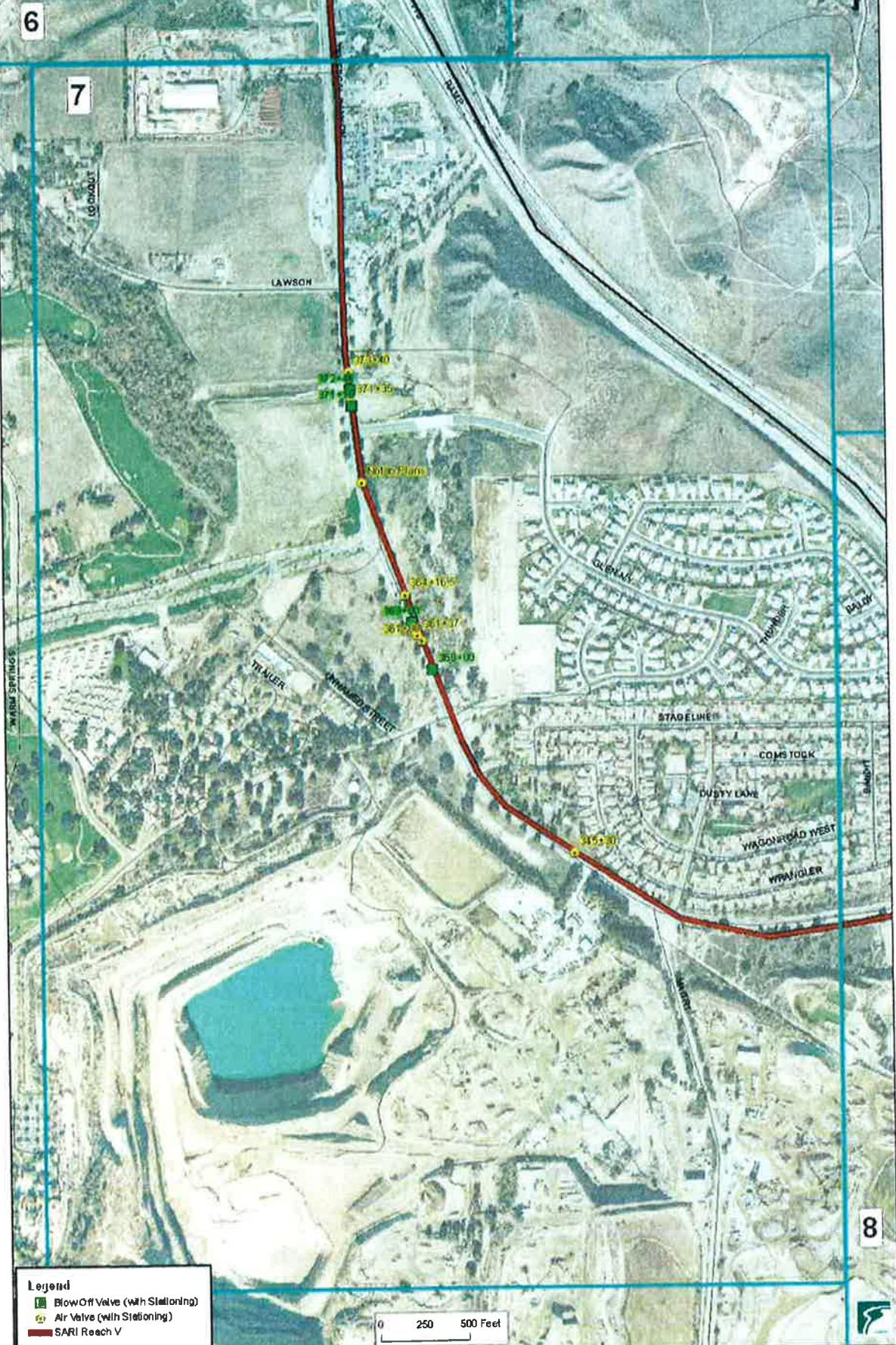
- [Green square] Blow Off Valve (with Stationing)
- [Yellow circle with dot] Air Valve (with Stationing)
- [Red line] SARI Reach V

0 250 500 Feet

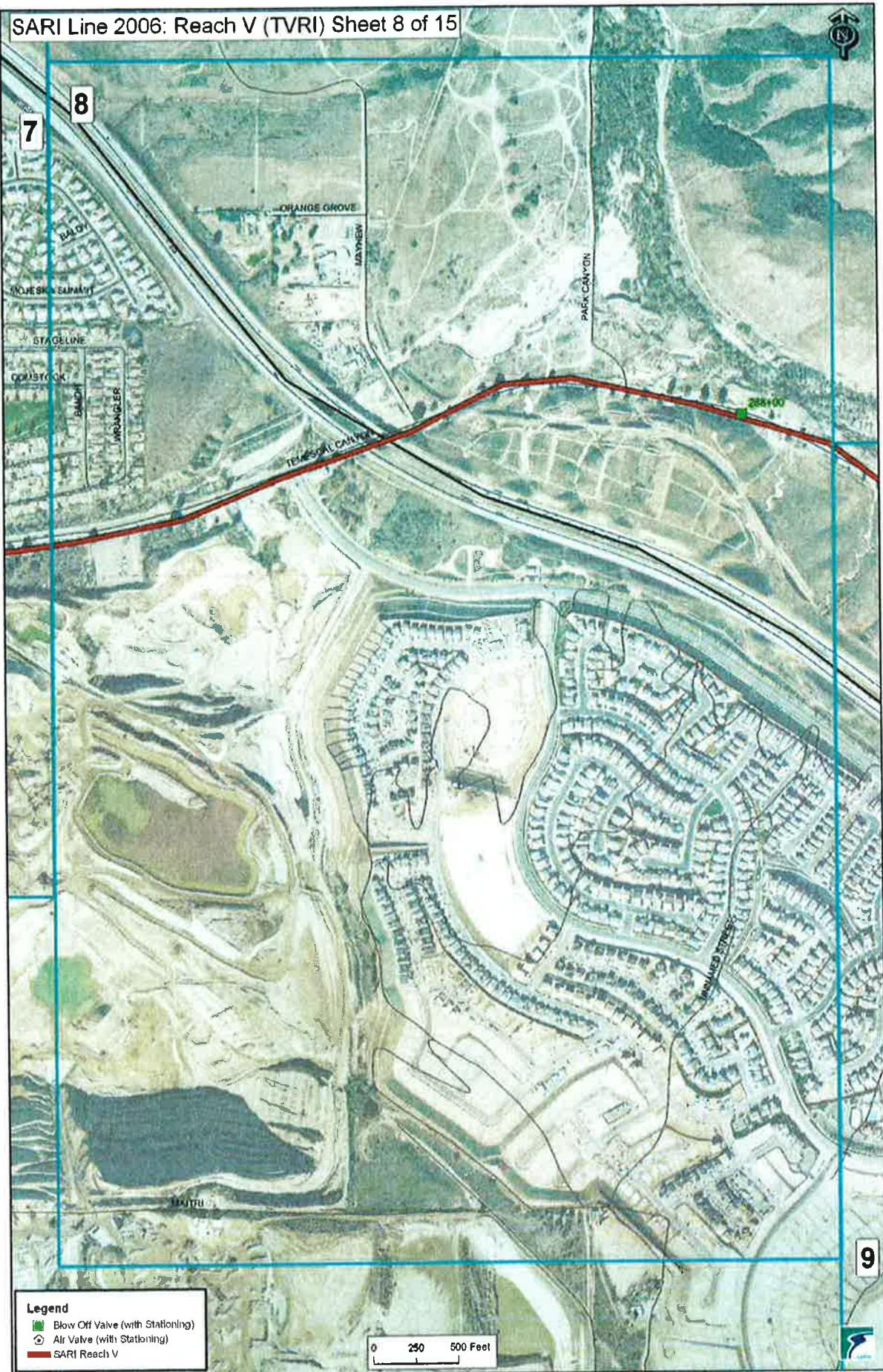
SARI Line 2006: Reach V (TVRI) Sheet 6 of 15



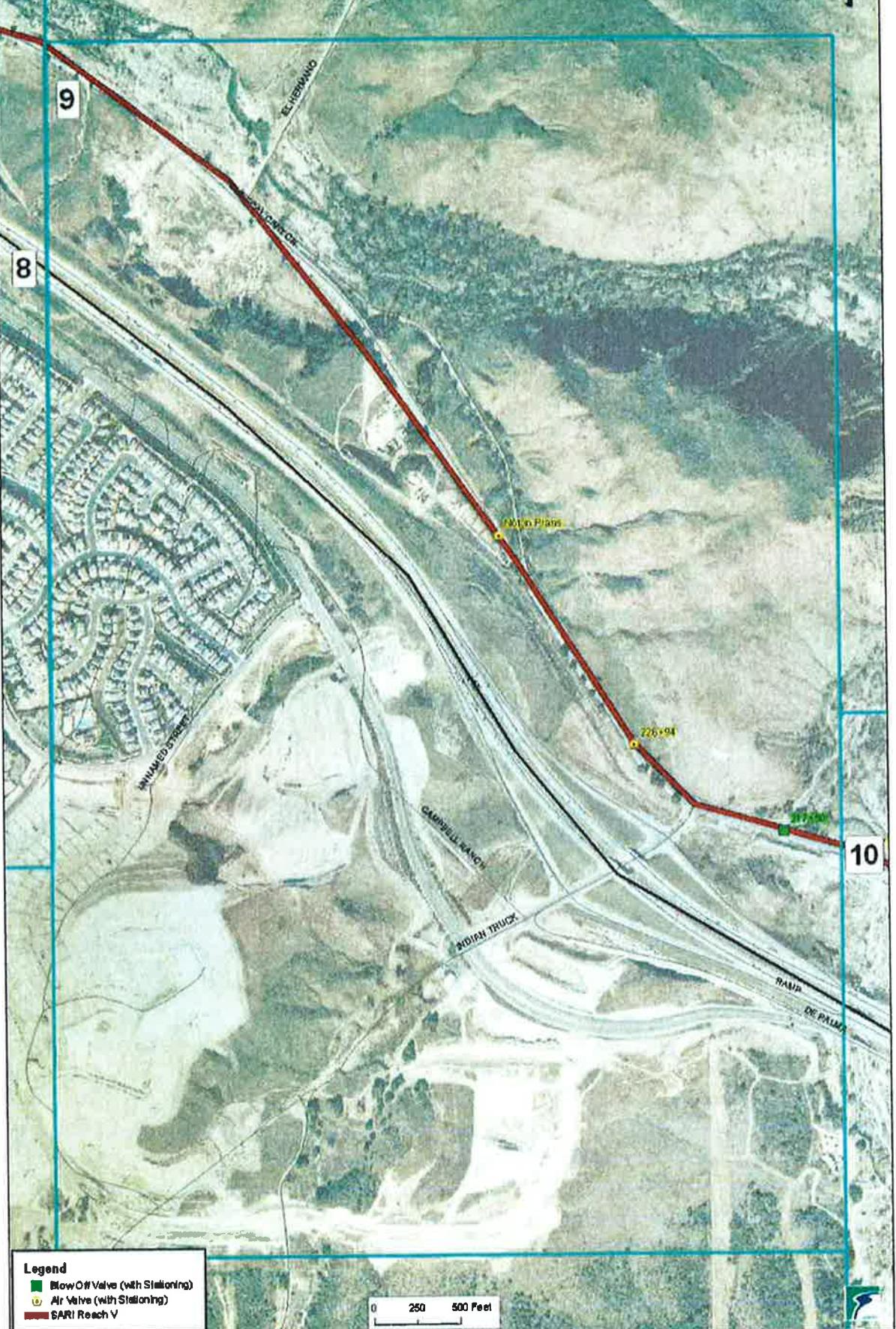
SARI Line 2006: Reach V (TVRI) Sheet 7 of 15



SARI Line 2006: Reach V (TVRI) Sheet 8 of 15



SARI Line 2006: Reach V (TVRI) Sheet 9 of 15

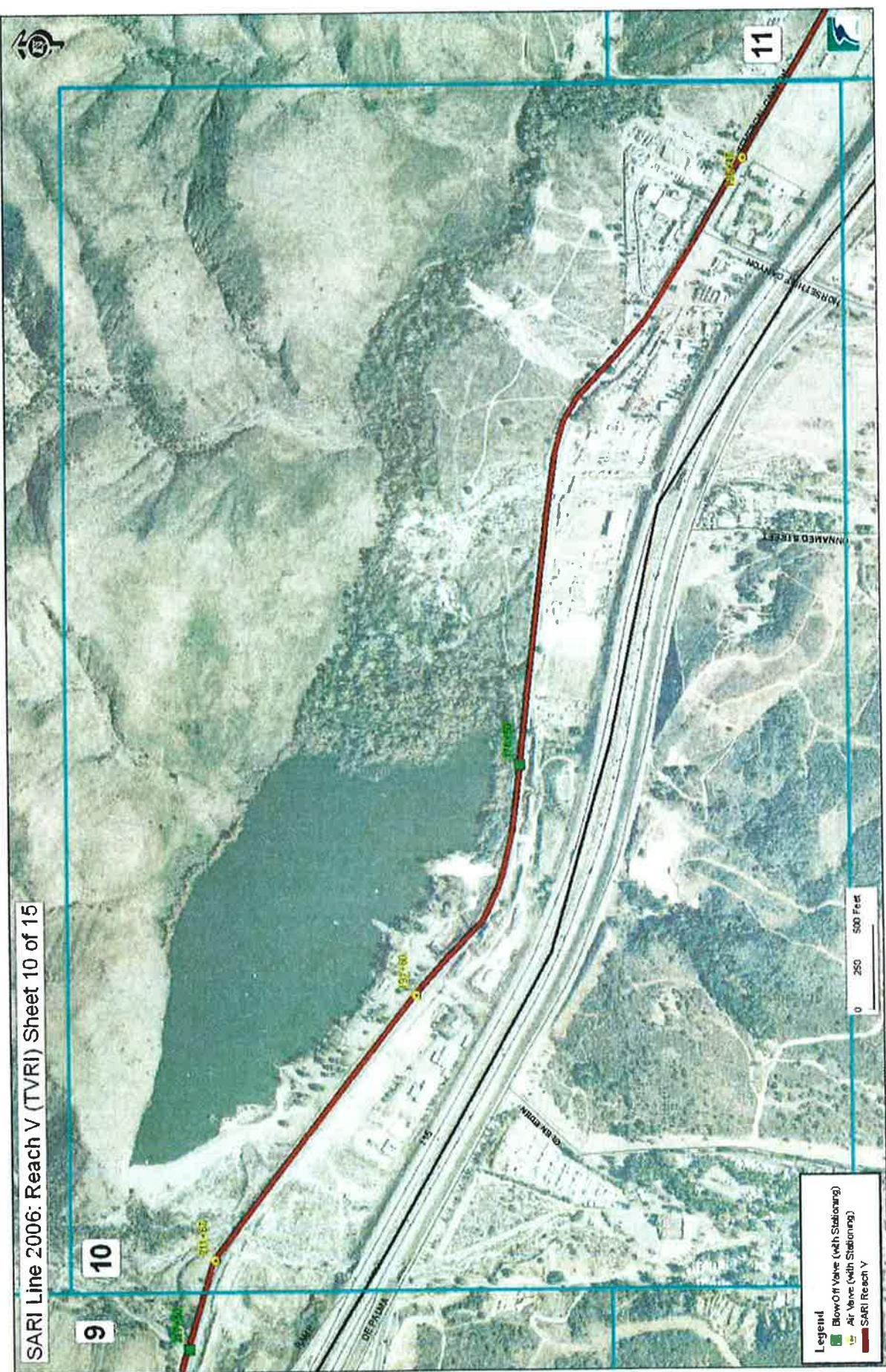


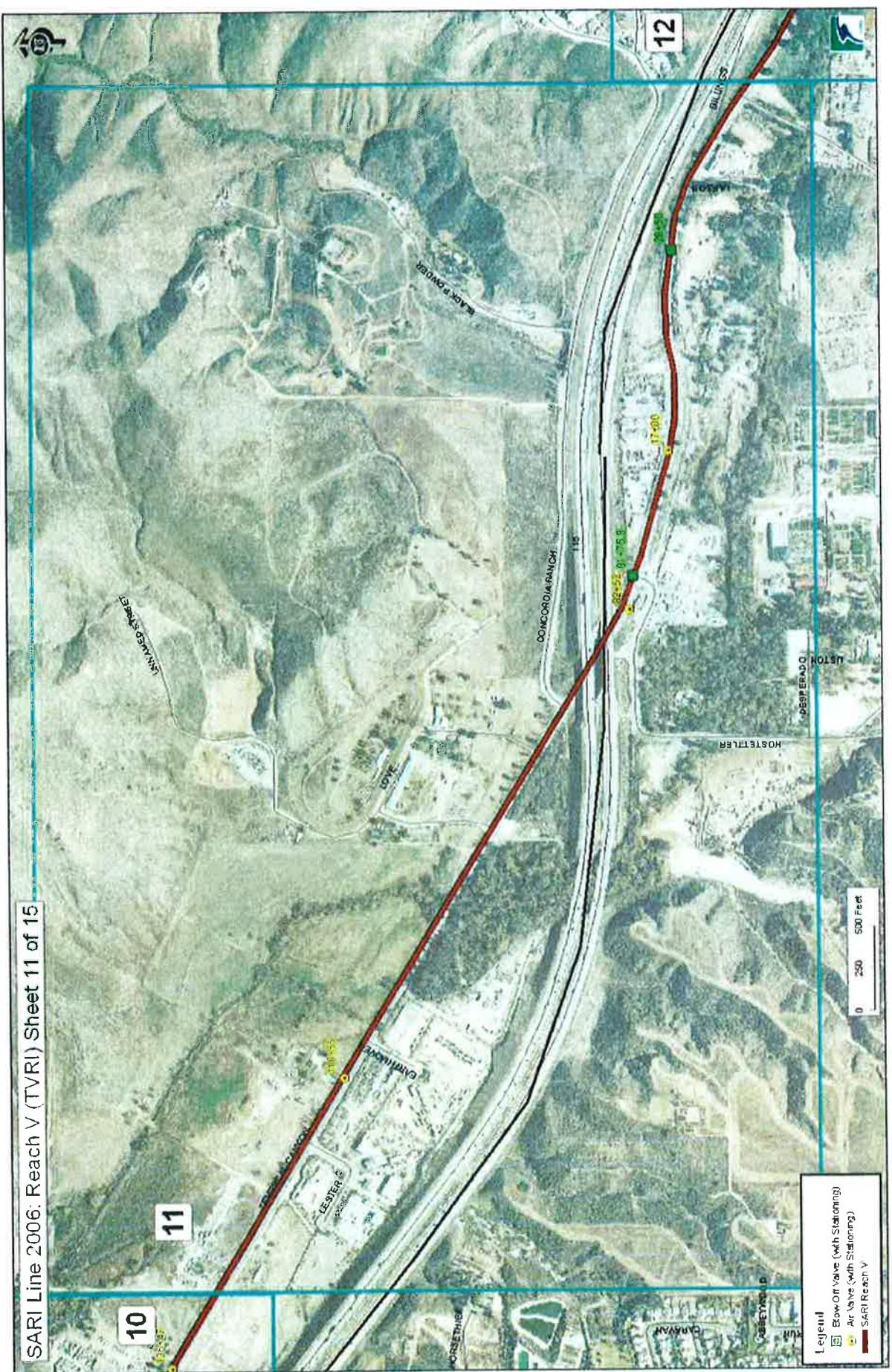
Legend

- Blow Off Valve (with Stationing)
- Air Valve (with Stationing)
- SARI Reach V

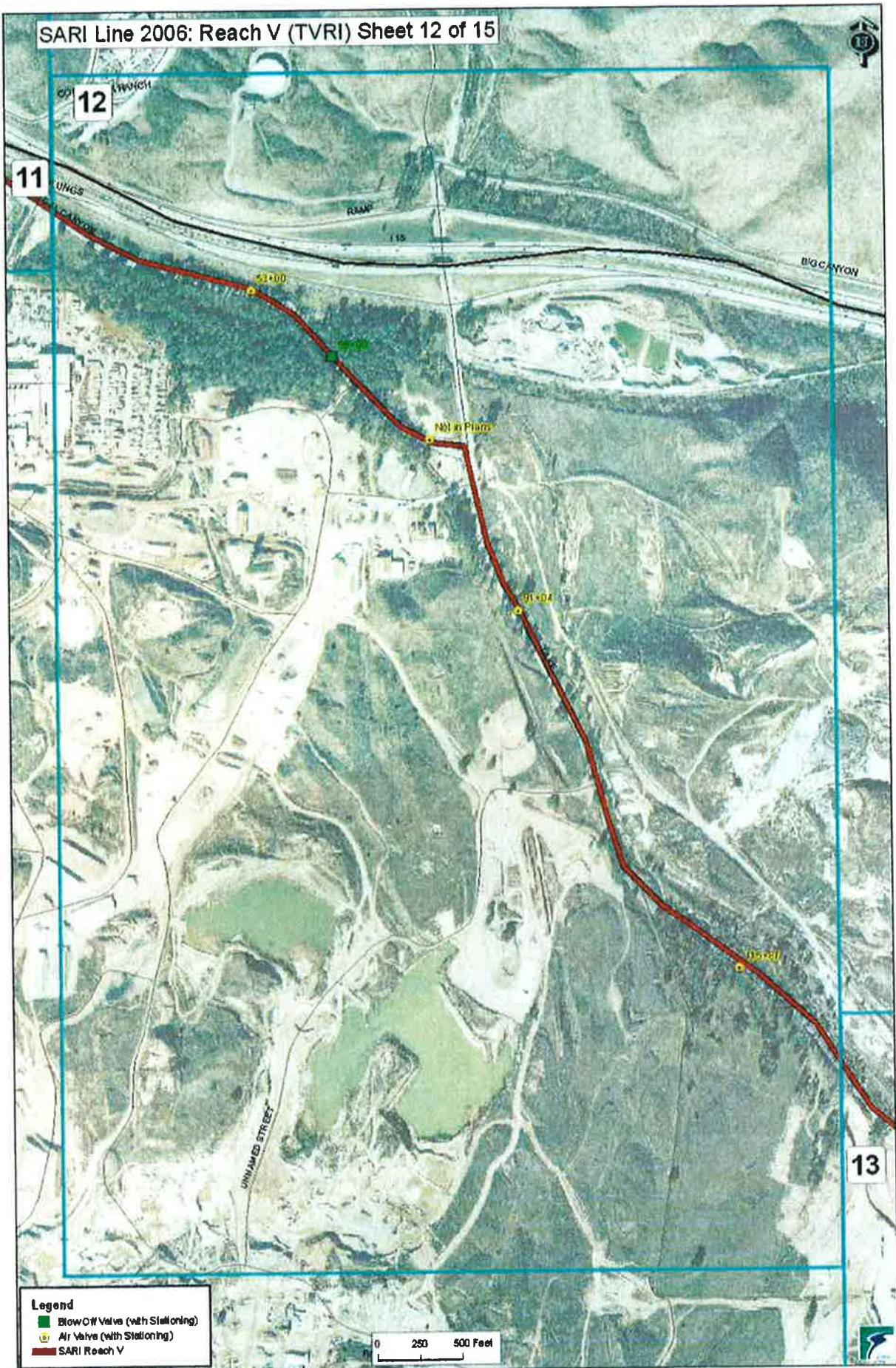
0 250 500 Feet







SARI Line 2006: Reach V (TVRI) Sheet 12 of 15

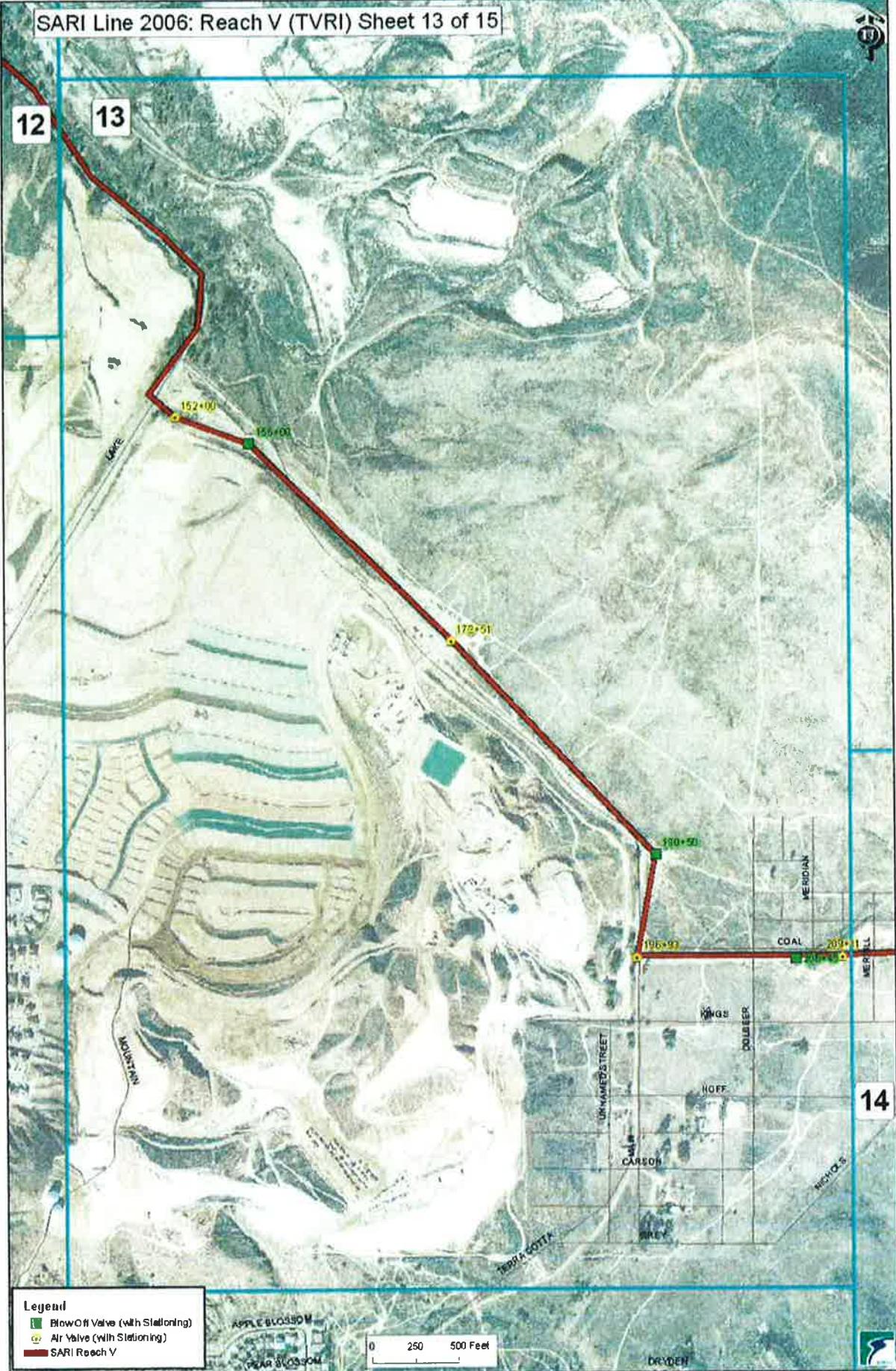


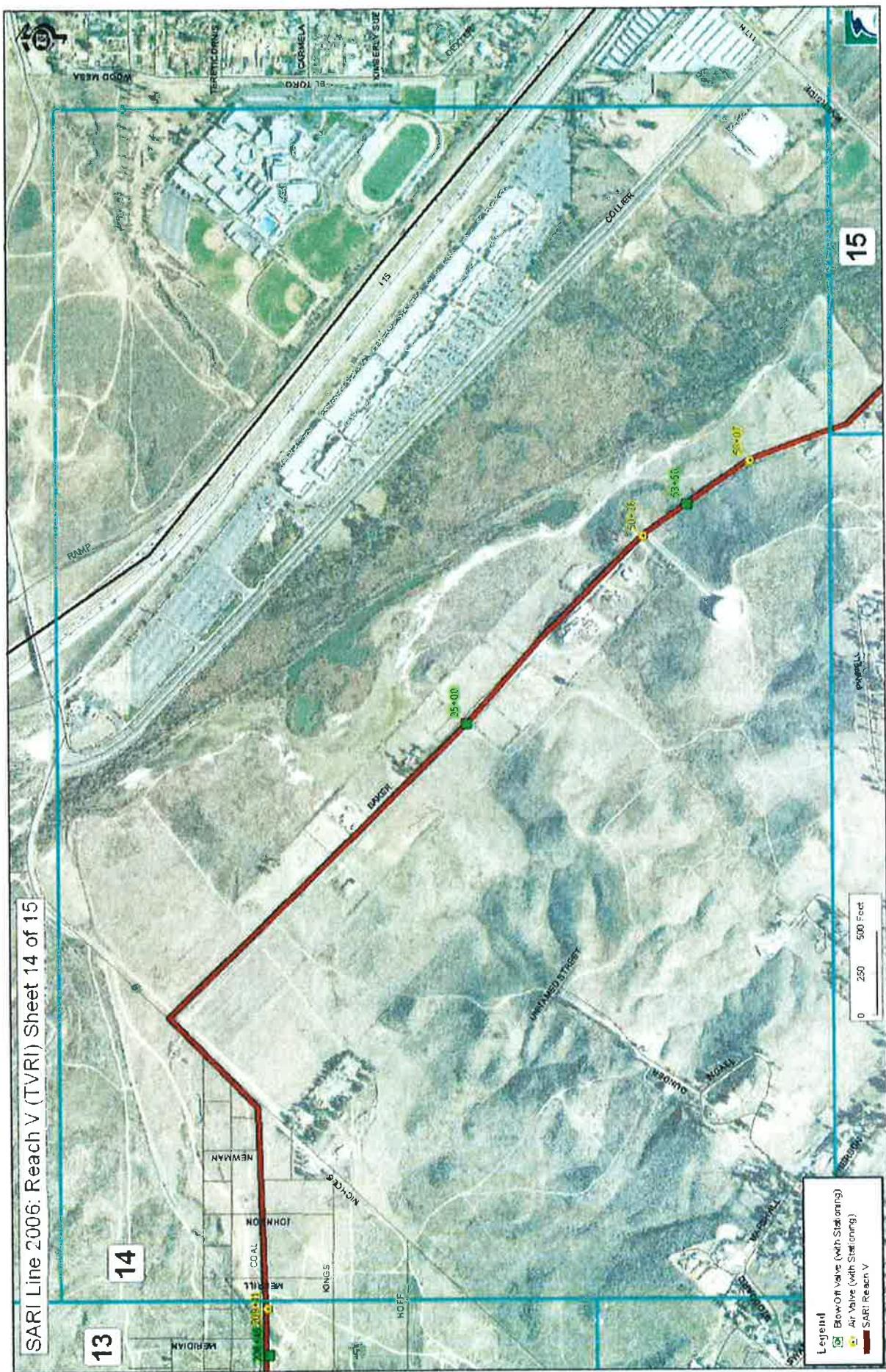
SARI Line 2006: Reach V (TVRI) Sheet 13 of 15

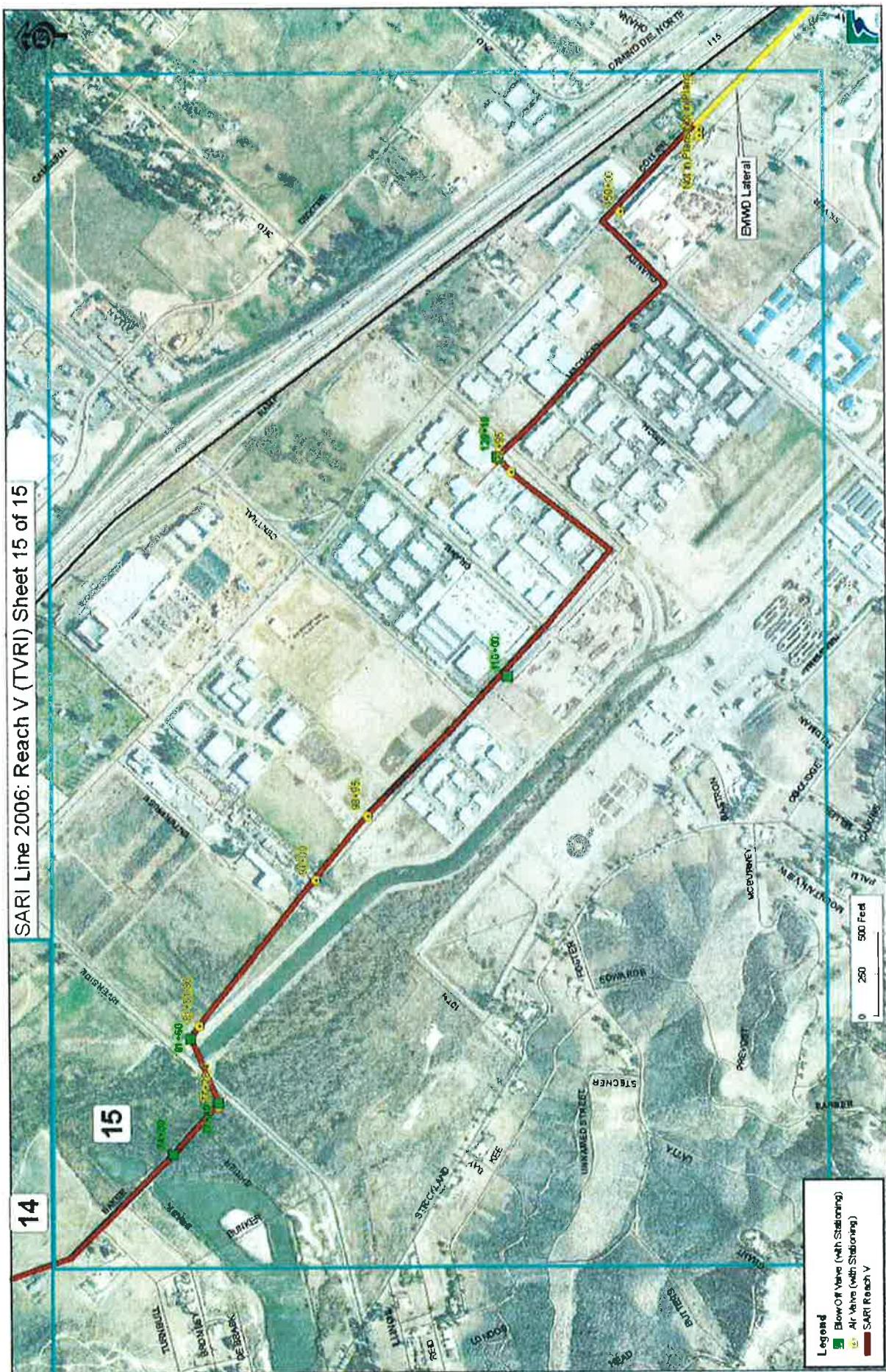
13

12

13

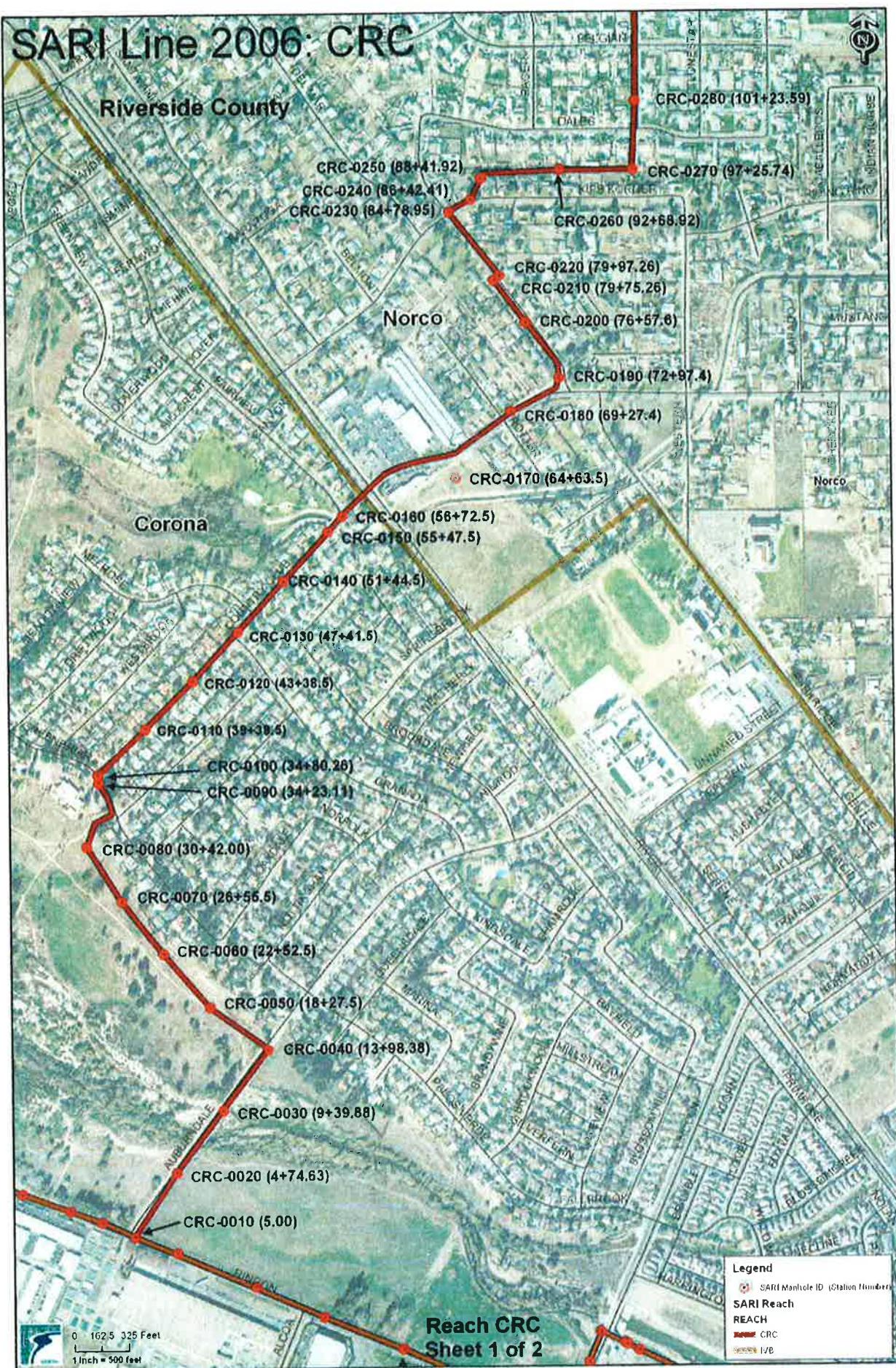




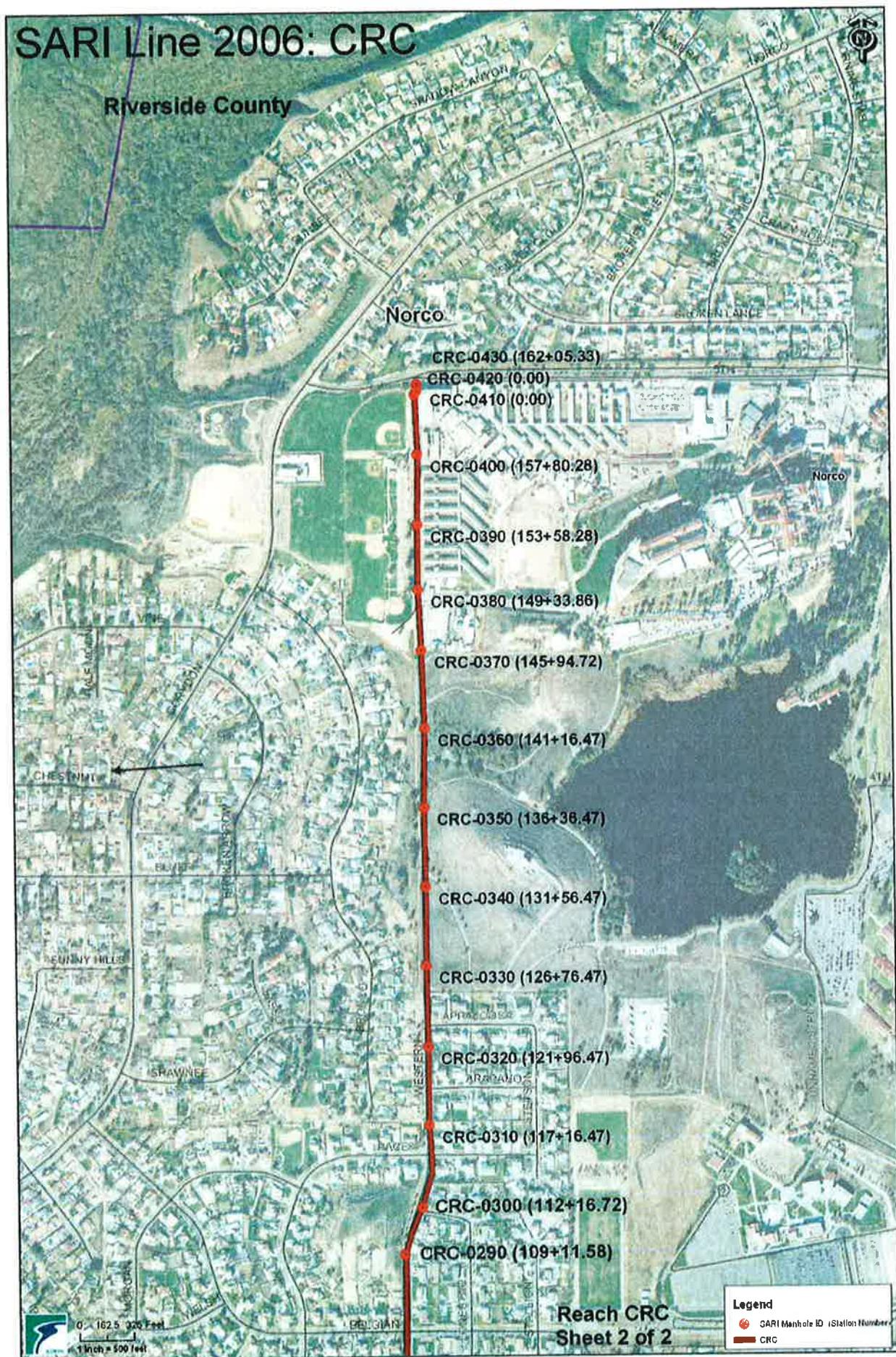


CRC

SARI Line 2006: CRC

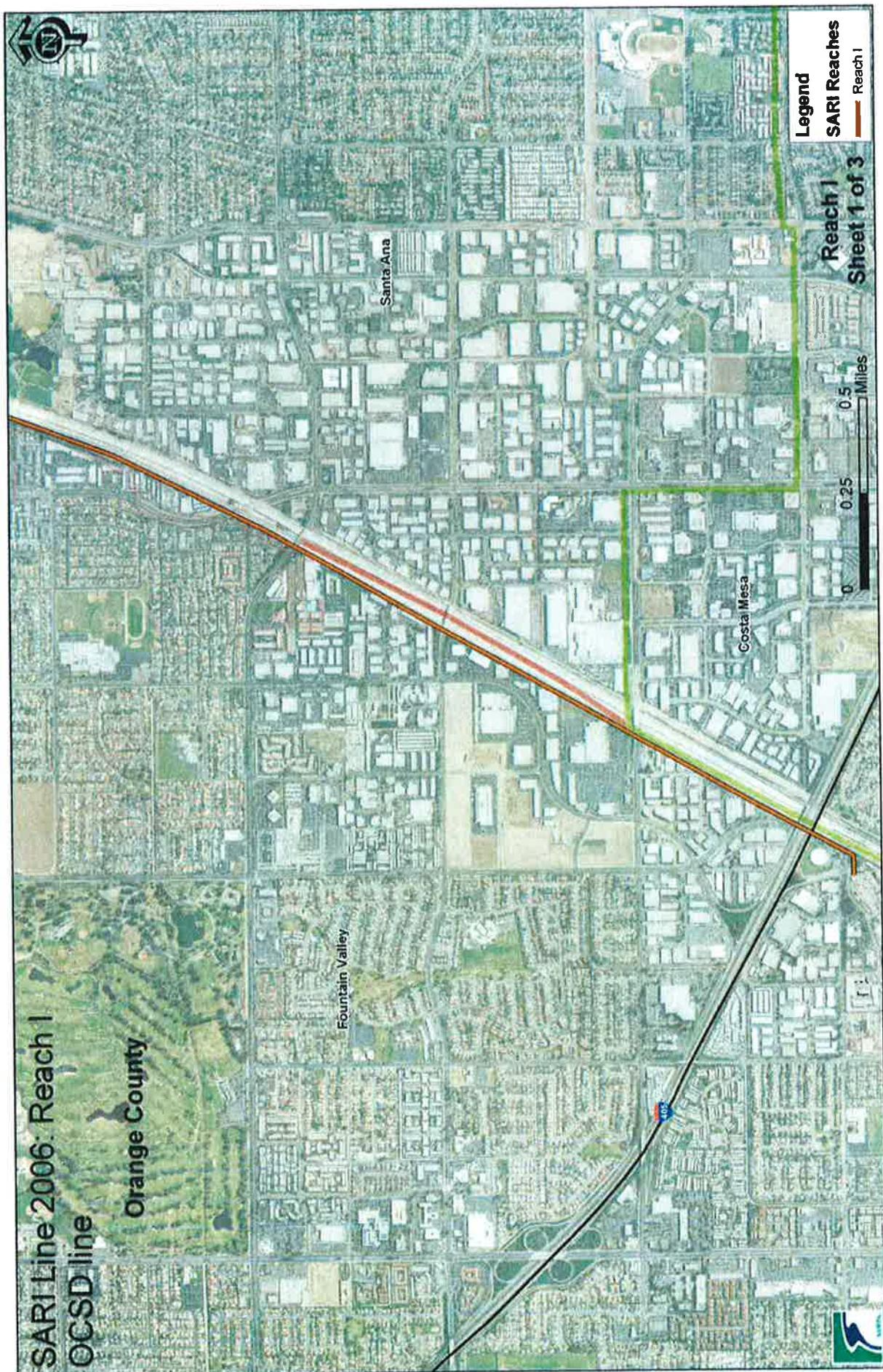


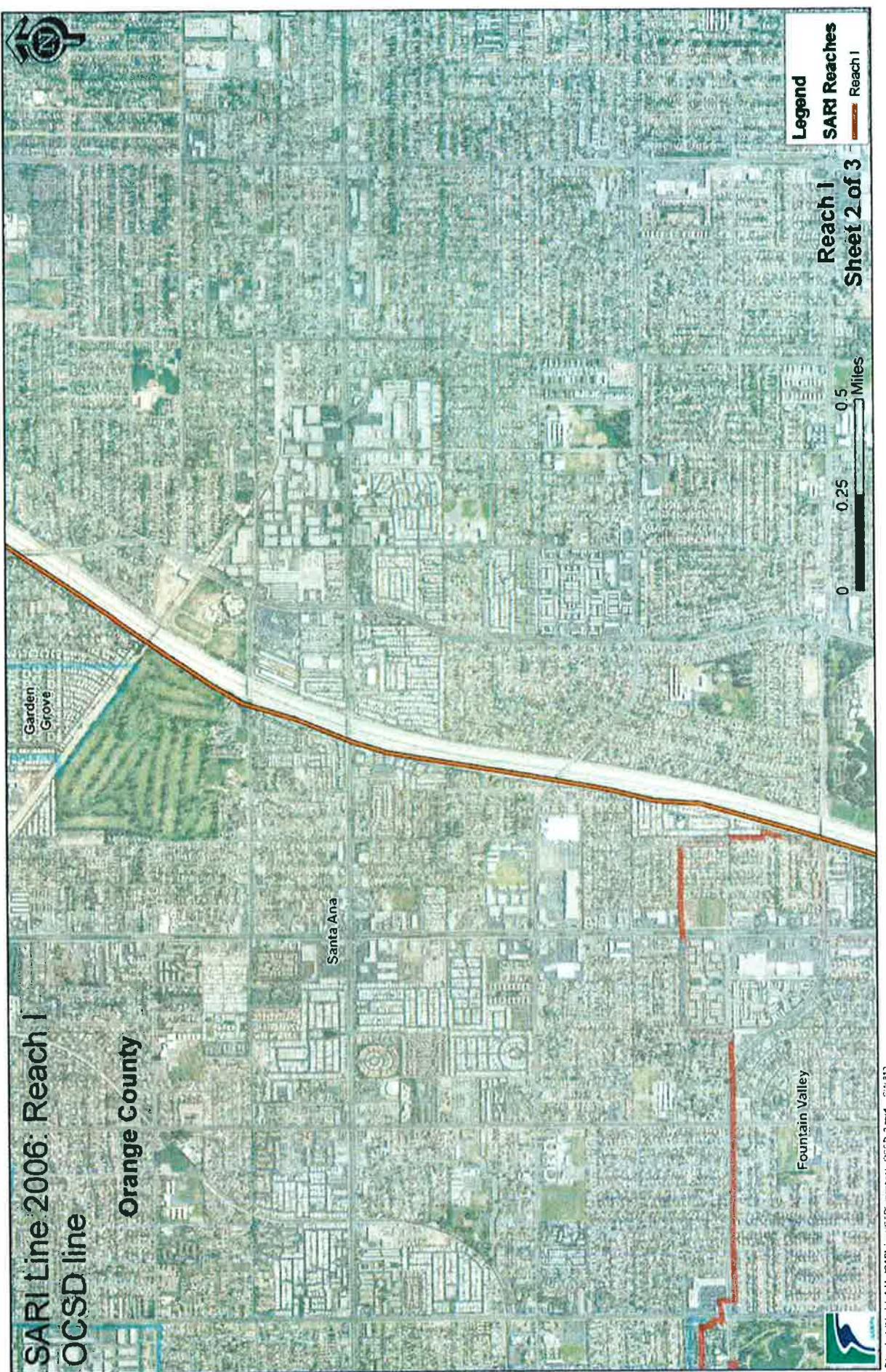
SARI Line 2006: CRC

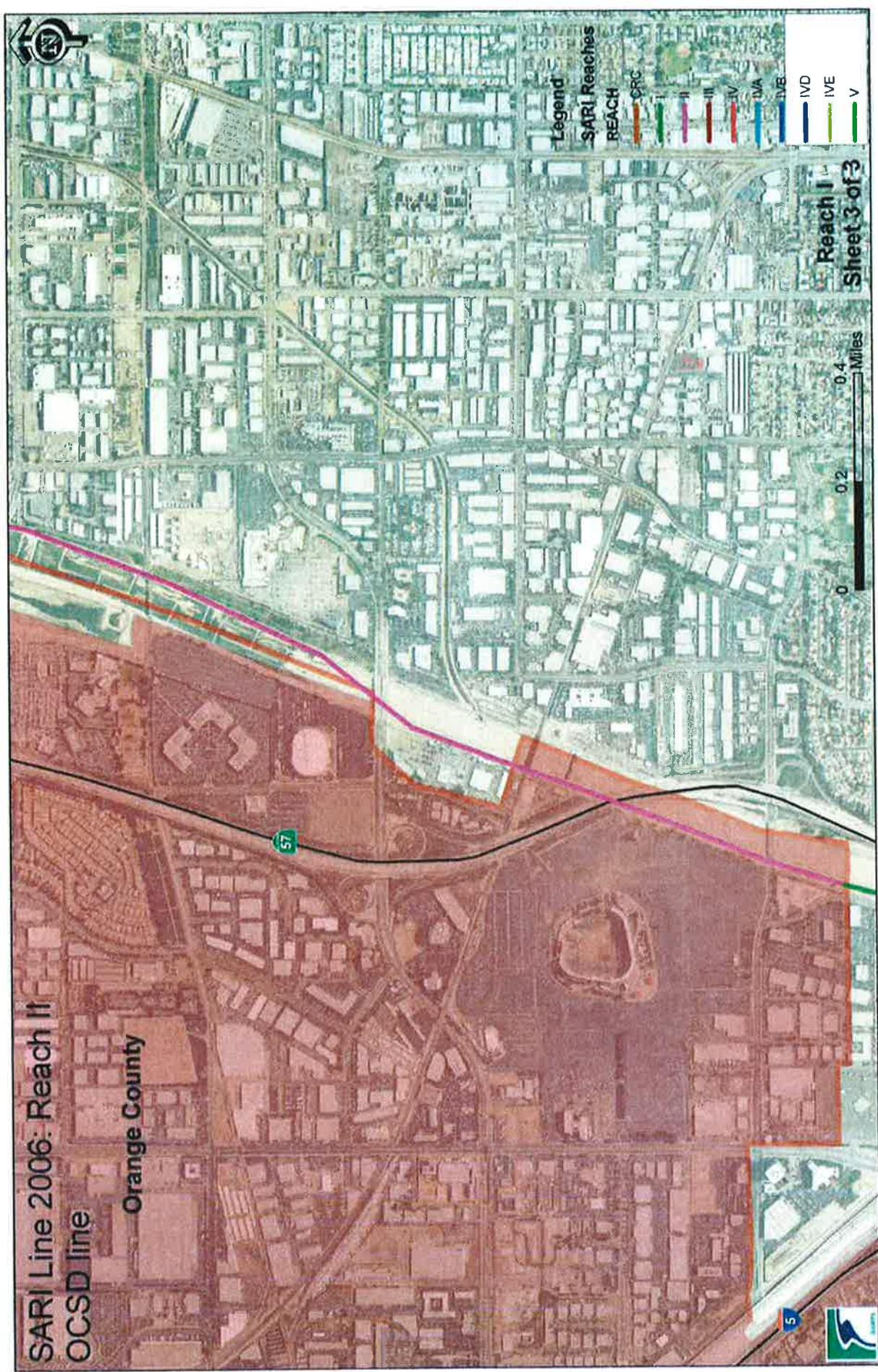


REACH

I

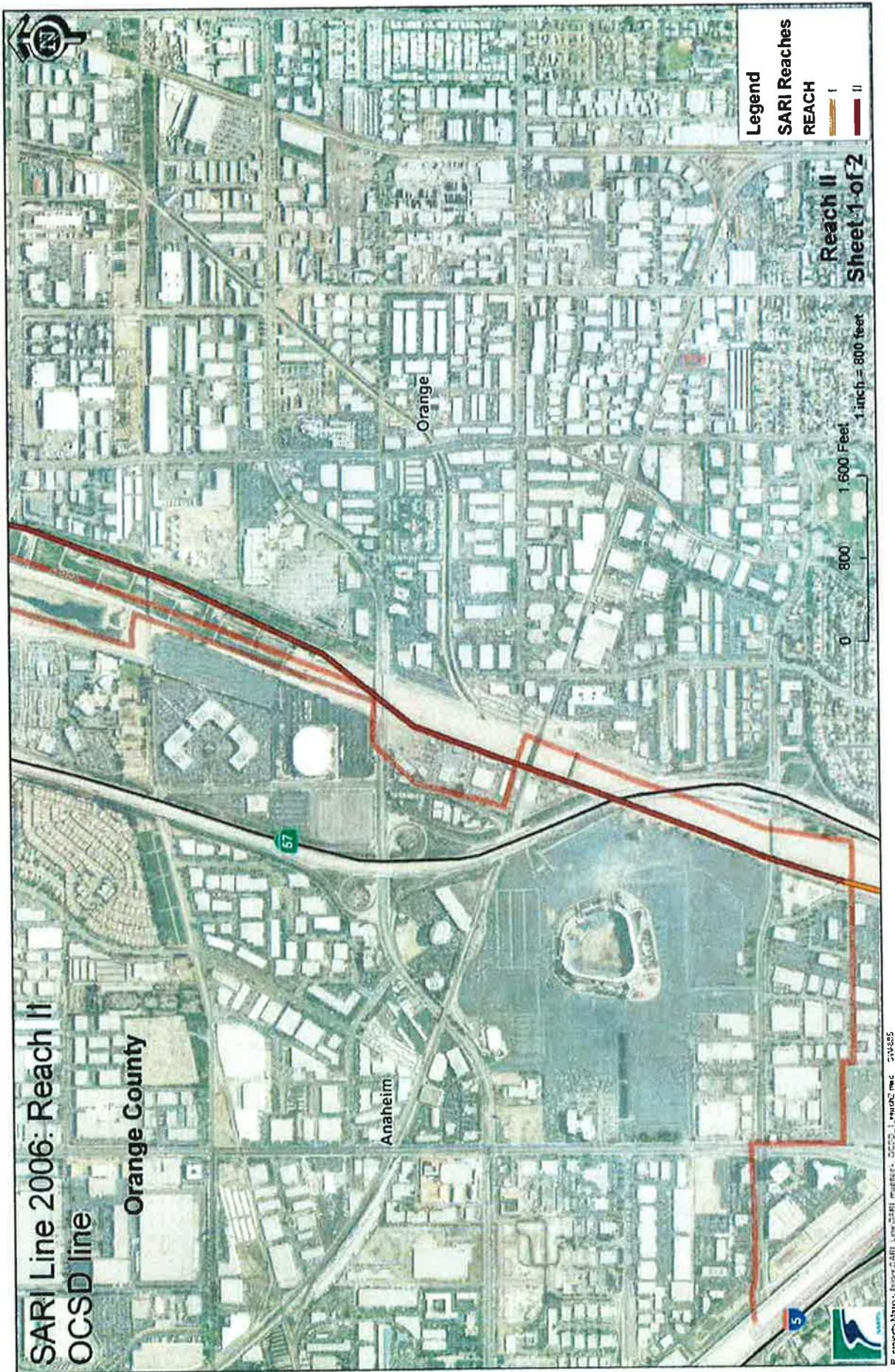






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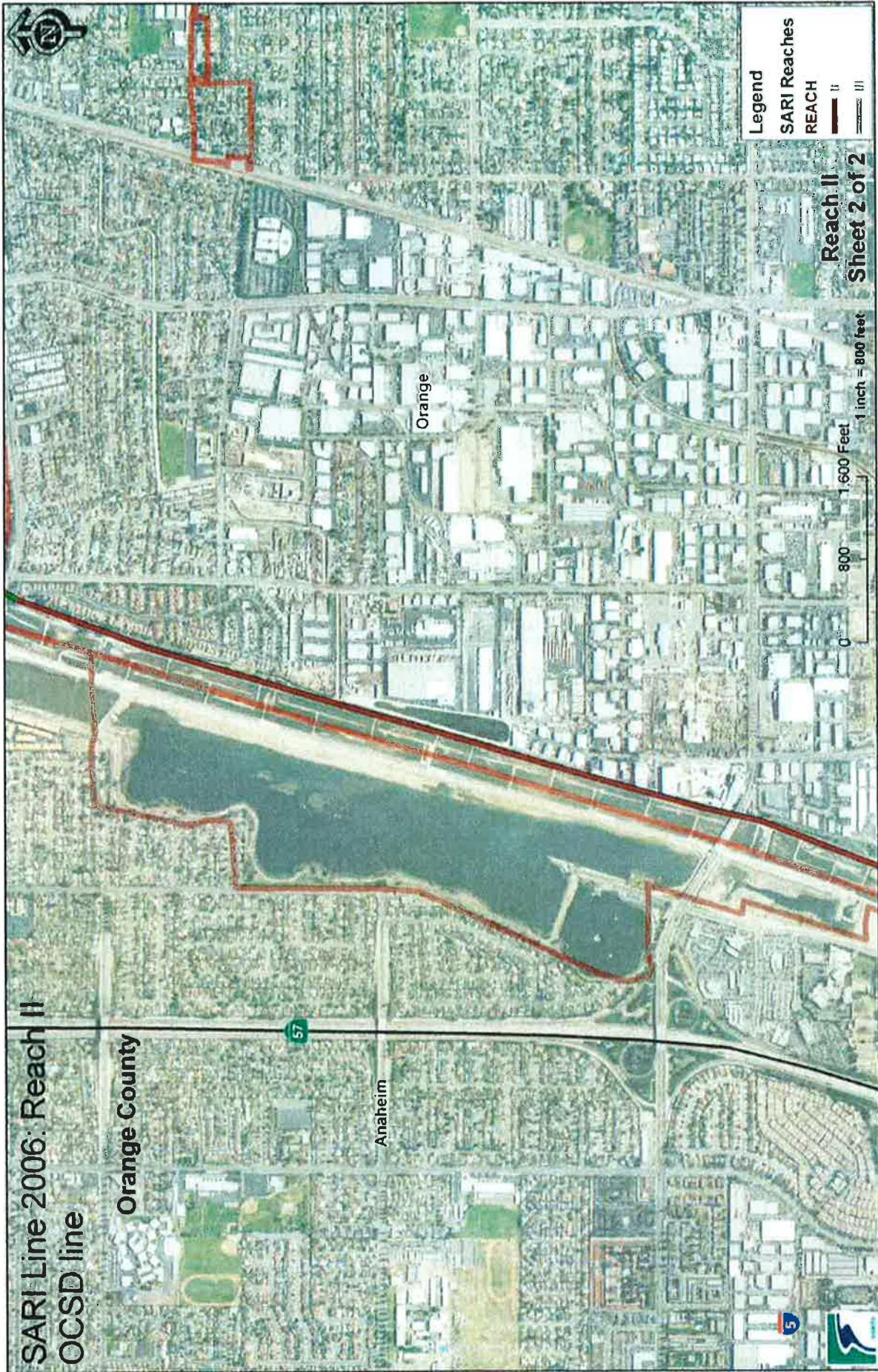
II



SARI Line 2006: Reach II
OCSD line

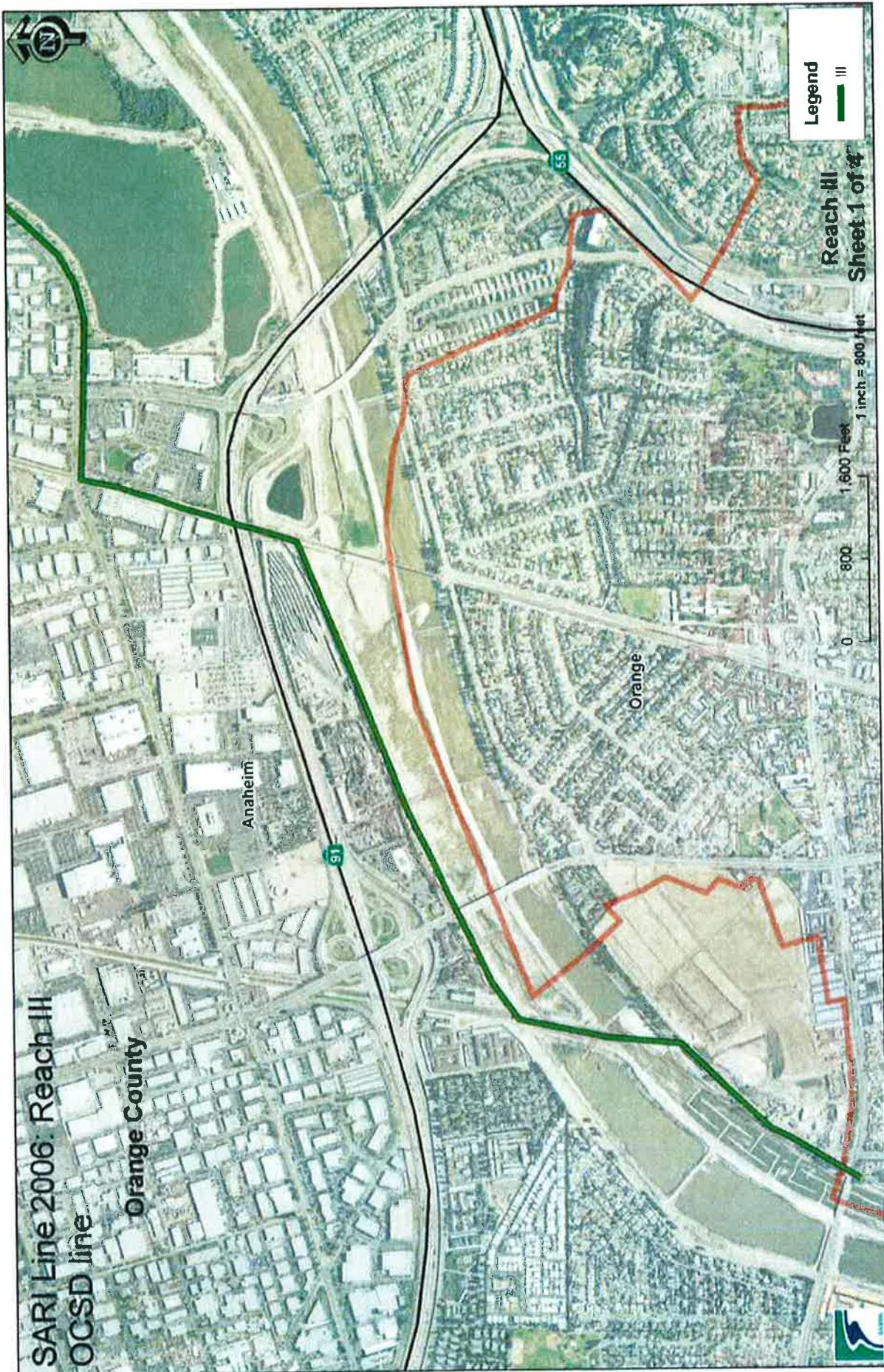
Orange County

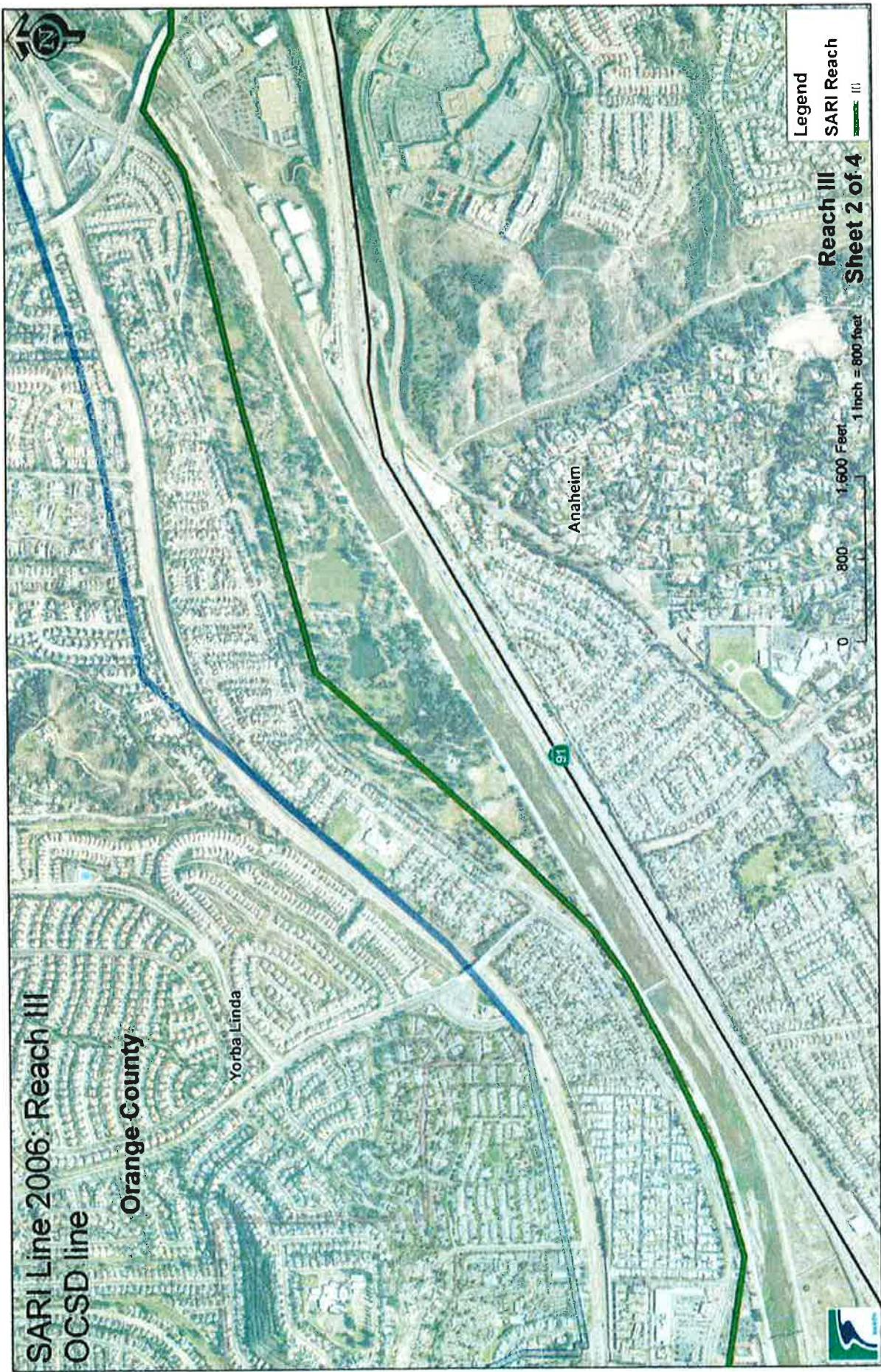
Anaheim

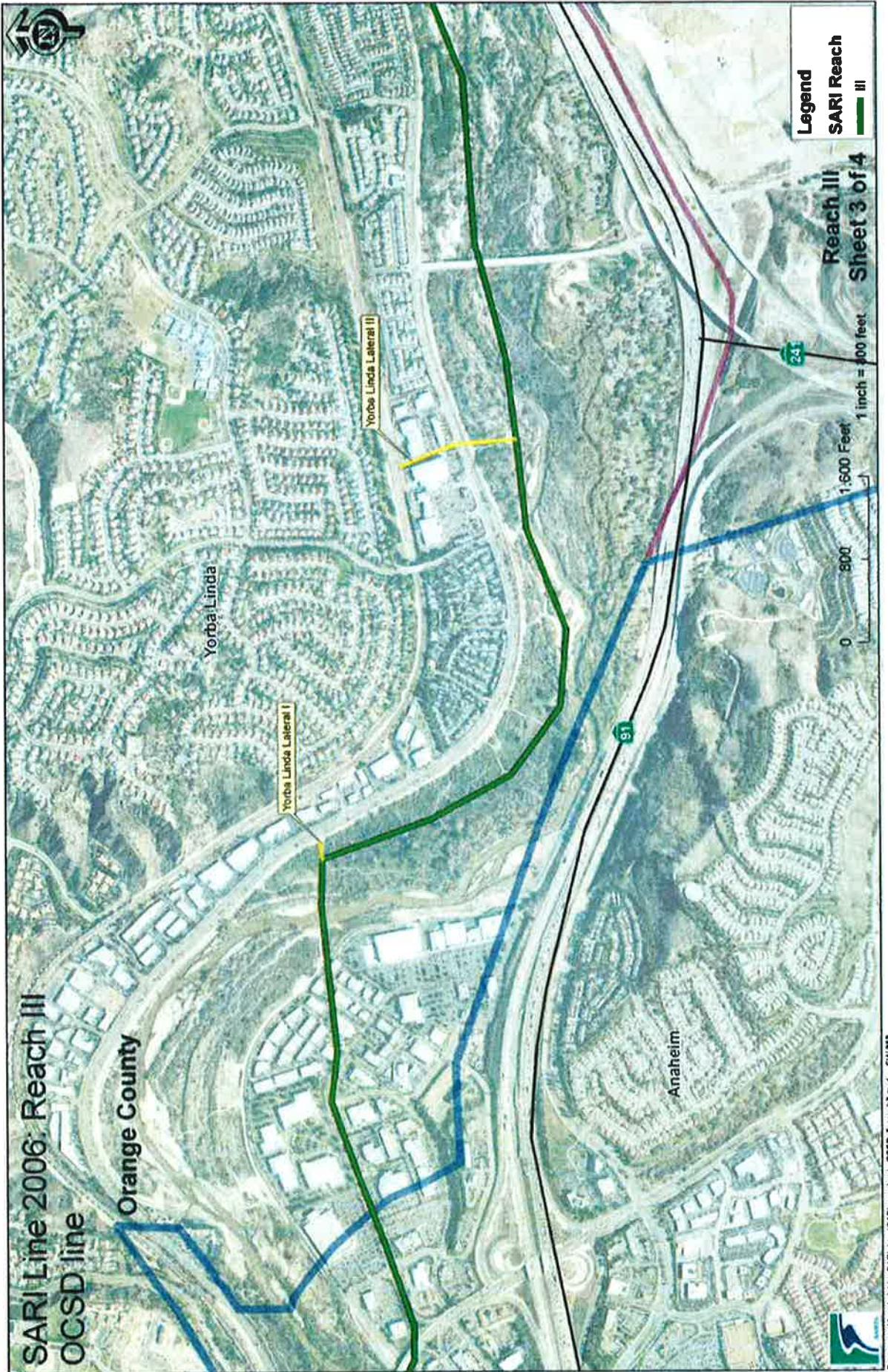


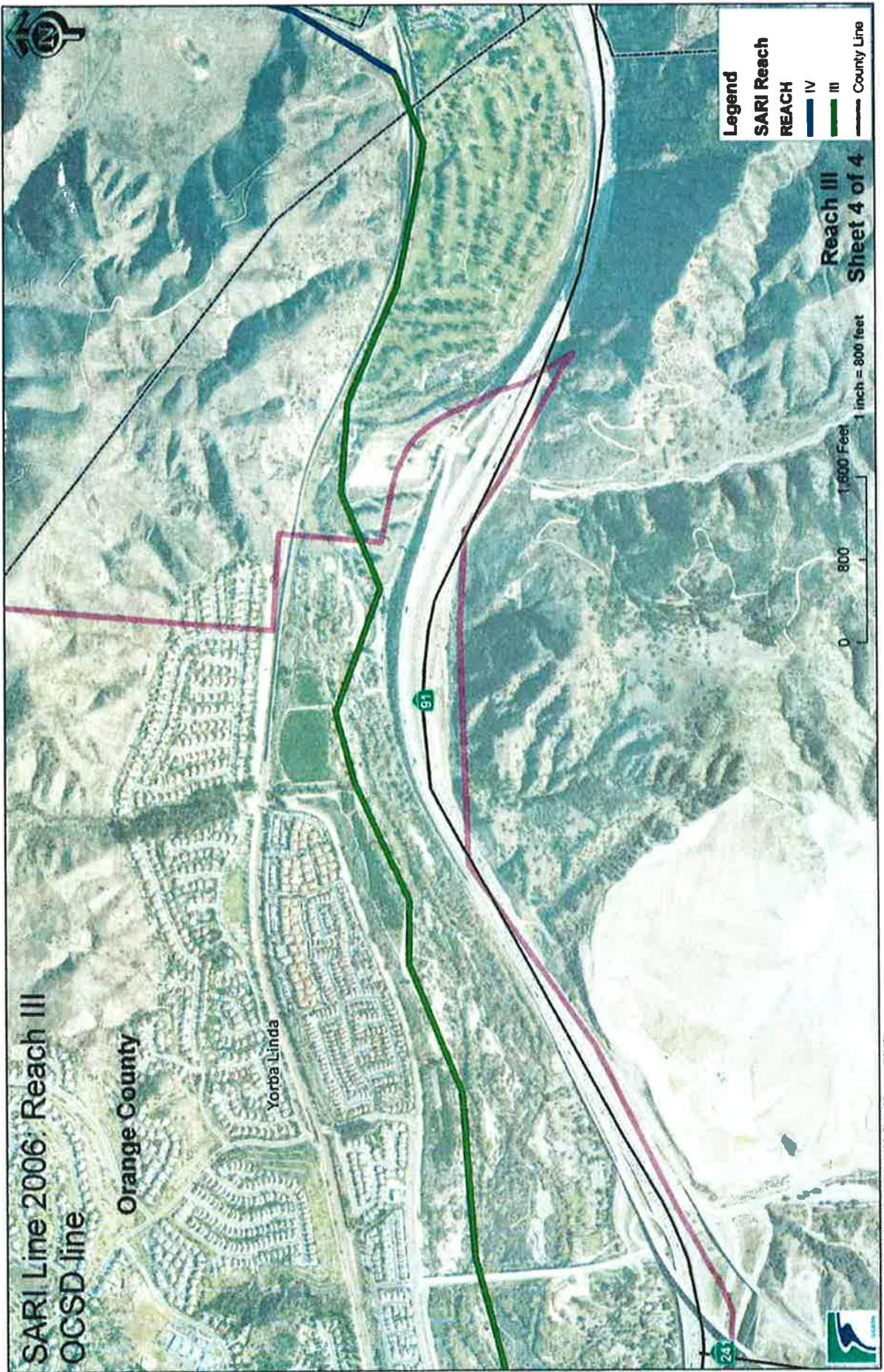
REACH

III









Appendix B

VMMWD Wastewater Operations Enterprise
Collections Division Maintenance Access Structure Inspection Form

Date: _____	Inspector: _____	Photo Documentation: Traffic Control Required Traffic Permit Required	Y / N Y / N Y / N																																																																																																																																								
MAS ID: _____	WMMWD MAS	SAWPA MAS	_____																																																																																																																																								
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