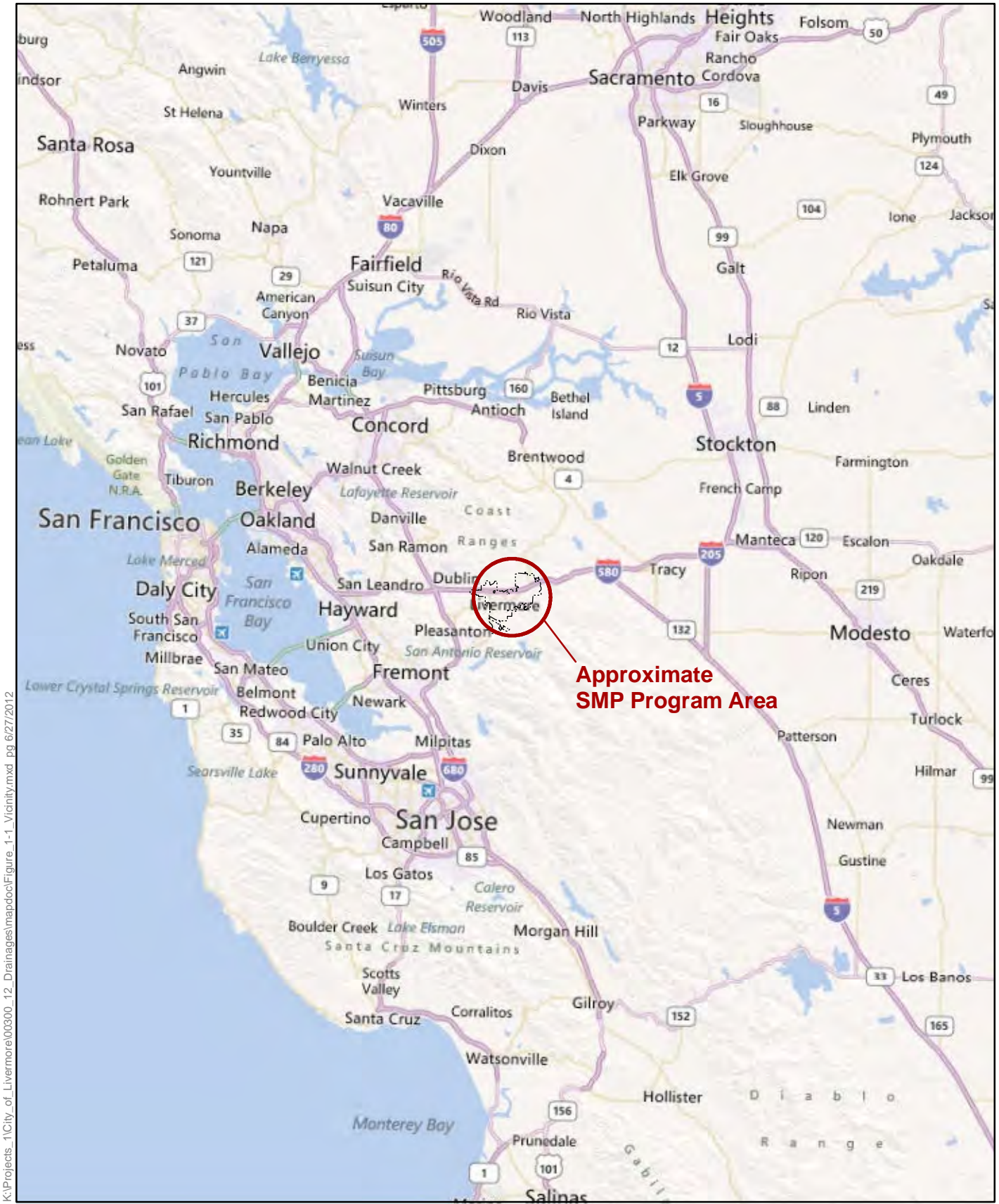
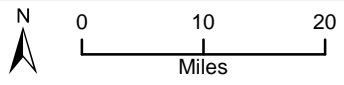


Appendix A

Figures



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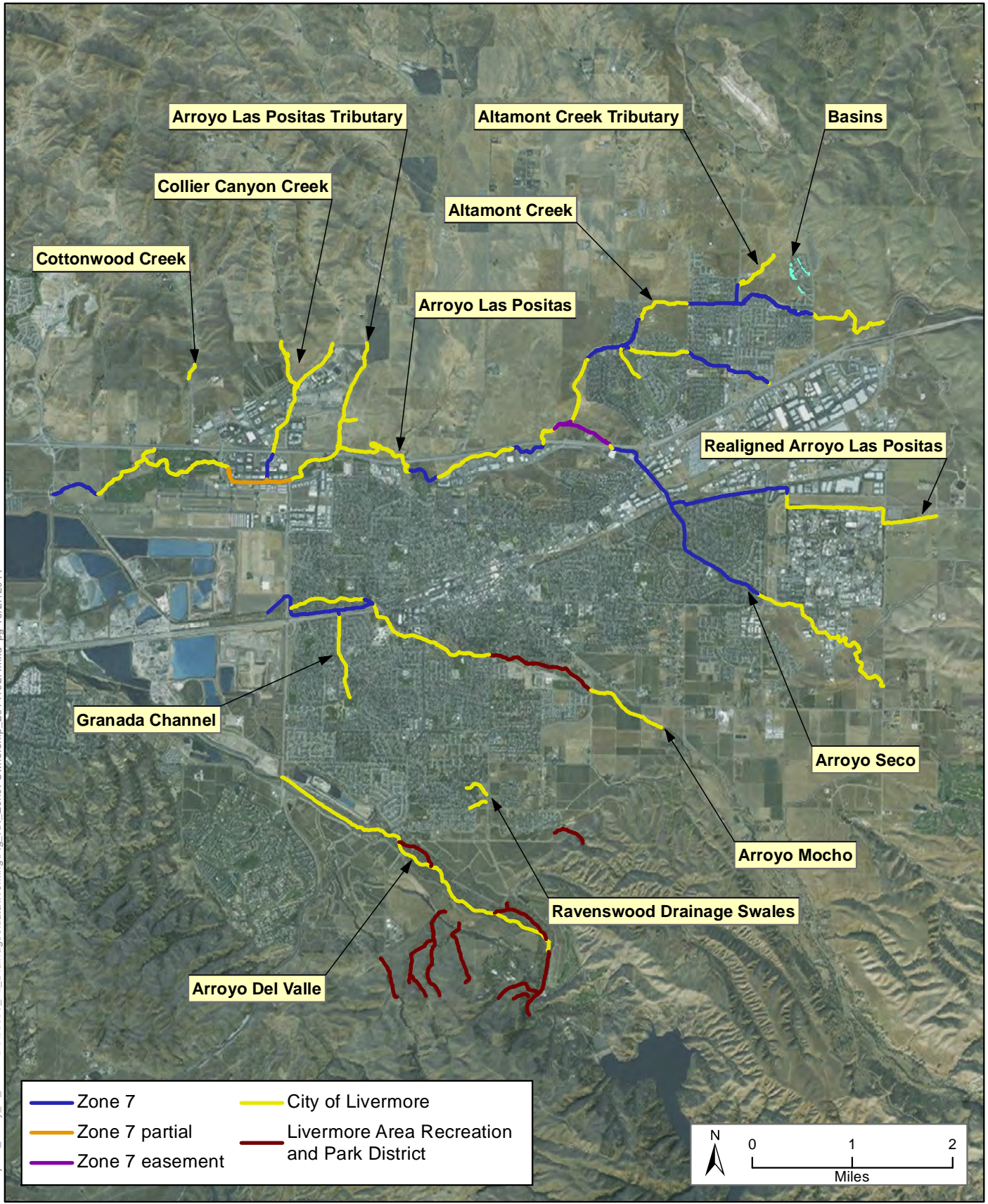
**City of Livermore
Stream Maintenance Program**



**Figure 1-1
Regional Vicinity**

Source: Bing Maps

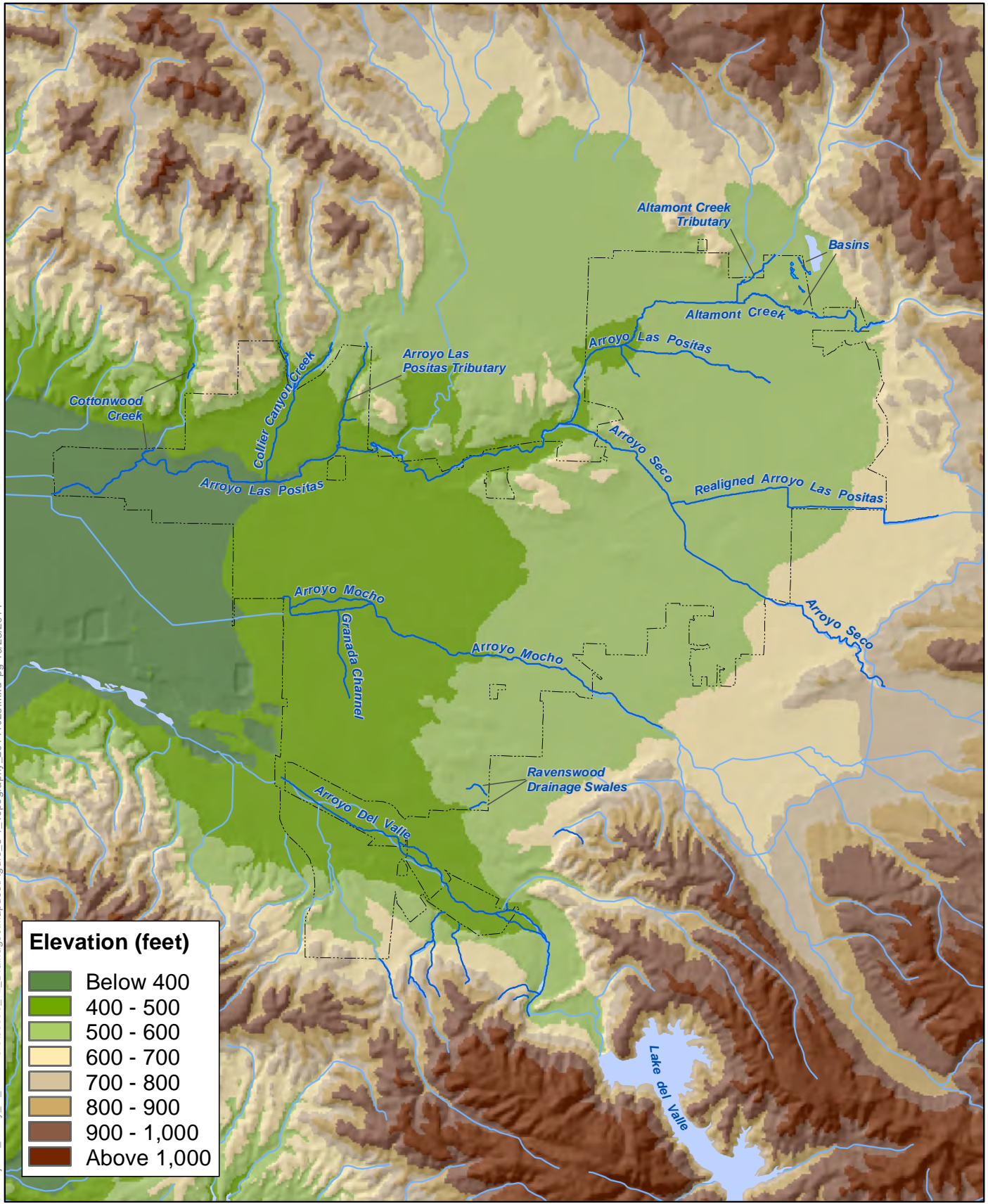
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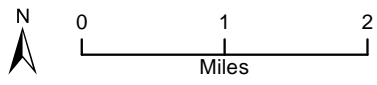
City of Livermore Stream Maintenance Program

Figure 1-2
Ownership Map

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Elevation (feet)	
Dark Green	Below 400
Light Green	400 - 500
Yellow-Green	500 - 600
Yellow	600 - 700
Light Brown	700 - 800
Medium Brown	800 - 900
Dark Brown	900 - 1,000
Very Dark Brown	Above 1,000

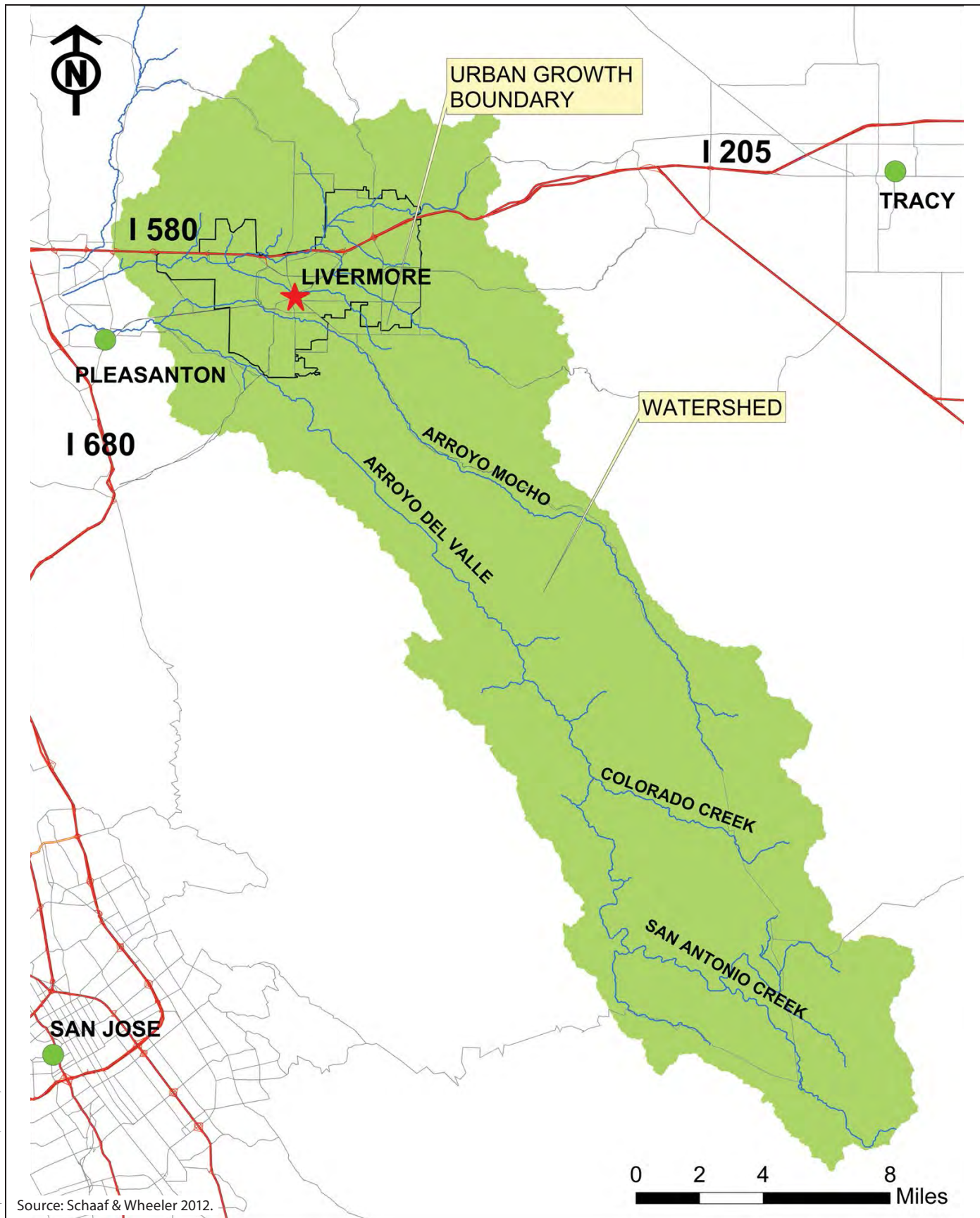


- SMP Drainage
- Other Drainages
- Livermore City Limits (approximate)



City of Livermore Stream Maintenance Program

Figure 3-1
Topography



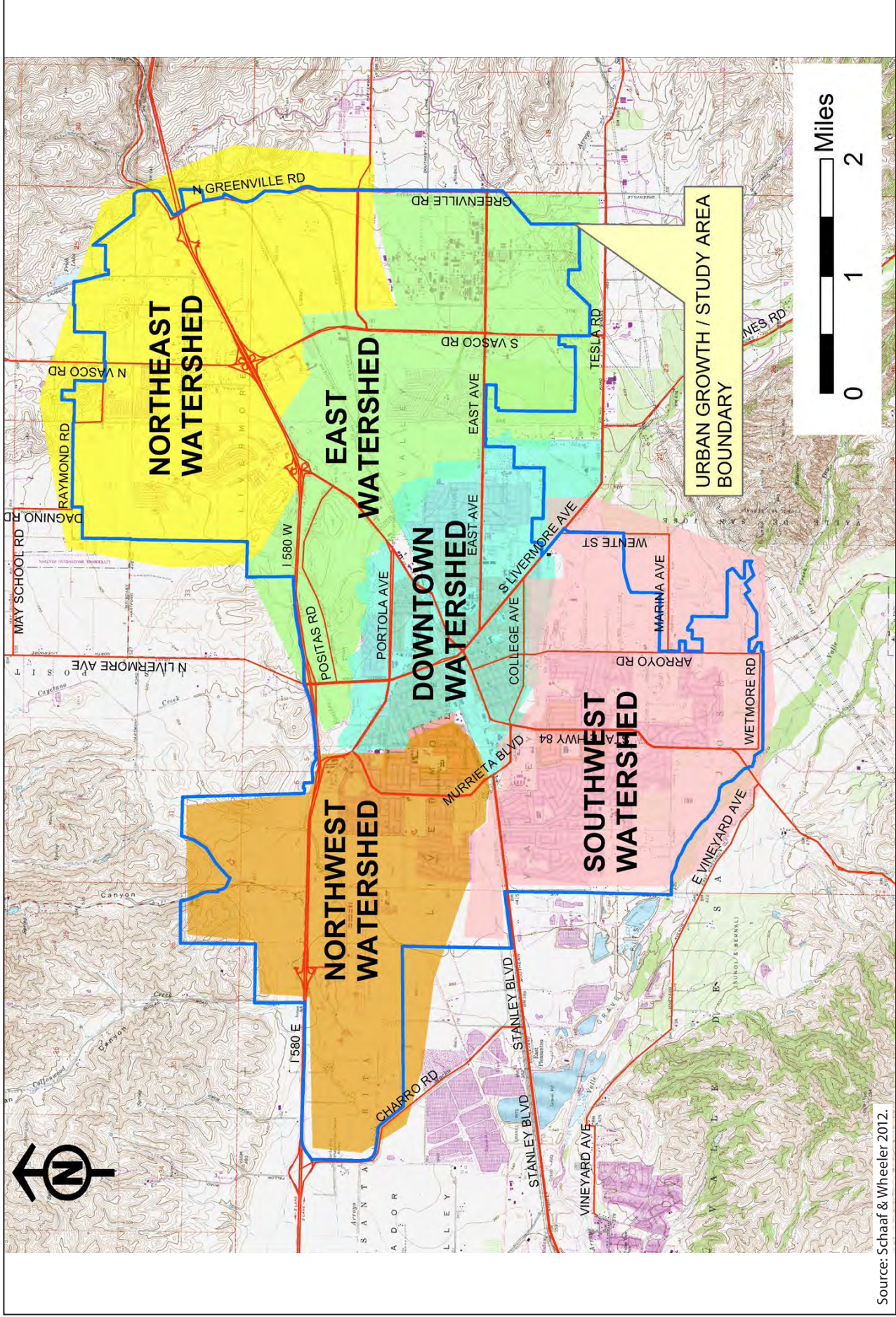
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Source: Schaaf & Wheeler 2012.



**City of Livermore
Stream Maintenance Program**

**Figure 3-2
Livermore Valley Subwatershed**

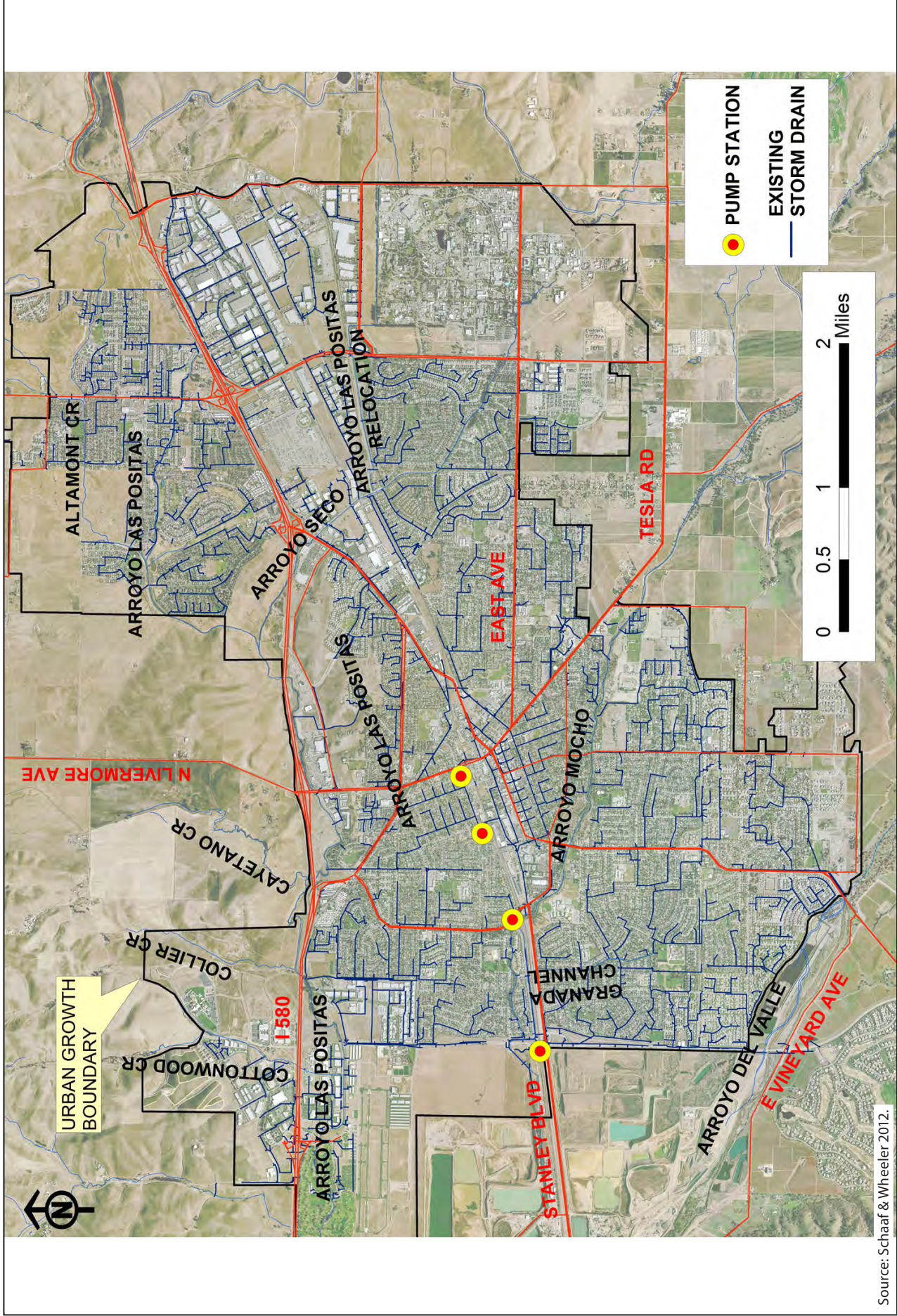


Source: Schaaf & Wheeler 2012.



**City of Livermore
Stream Maintenance Program**

**Figure 3-3
Livermore Drainage Areas**

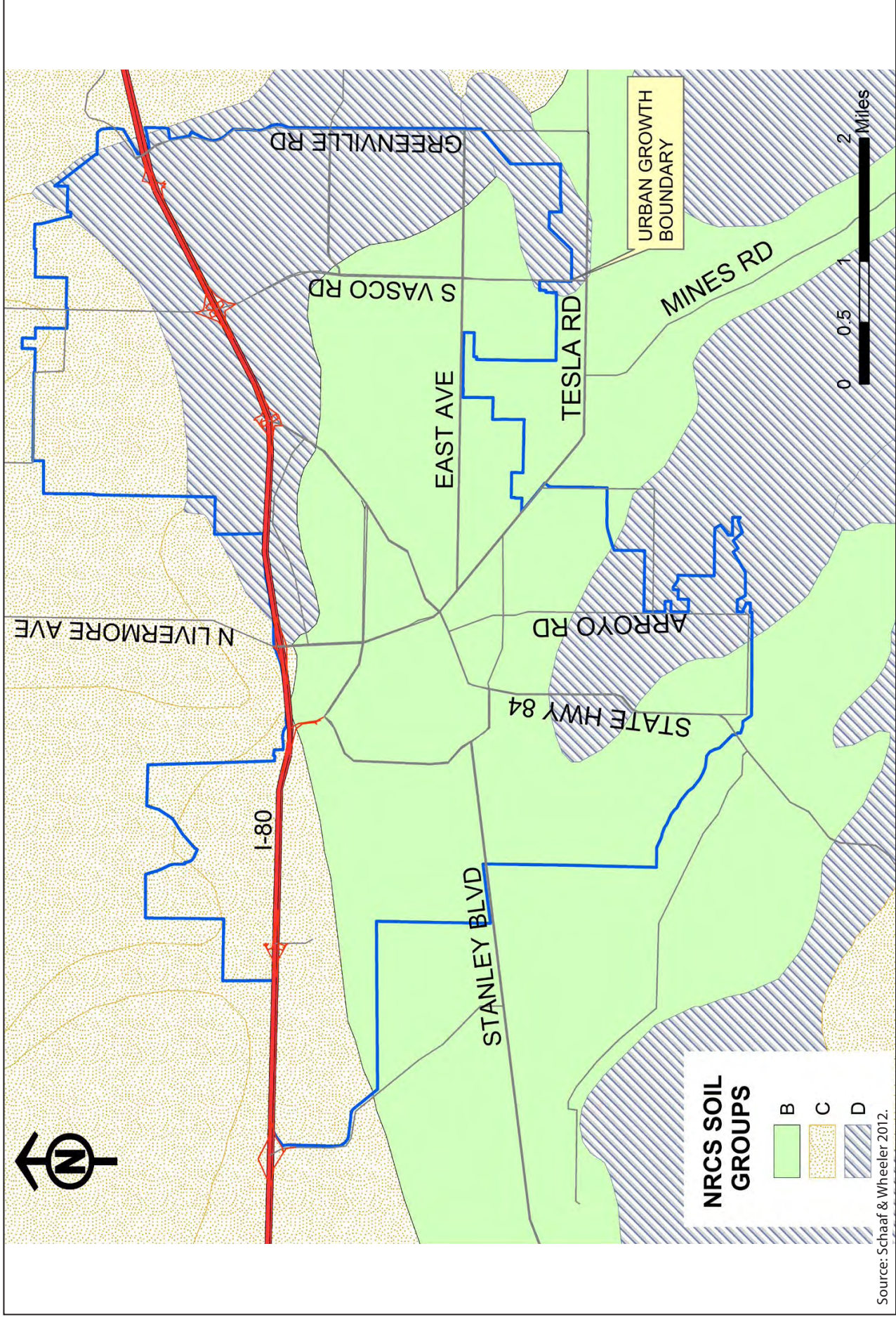


Source: Schaaf & Wheeler 2012.



City of Livermore
Stream Maintenance Program

Figure 3-4
 Livermore Drainage Network



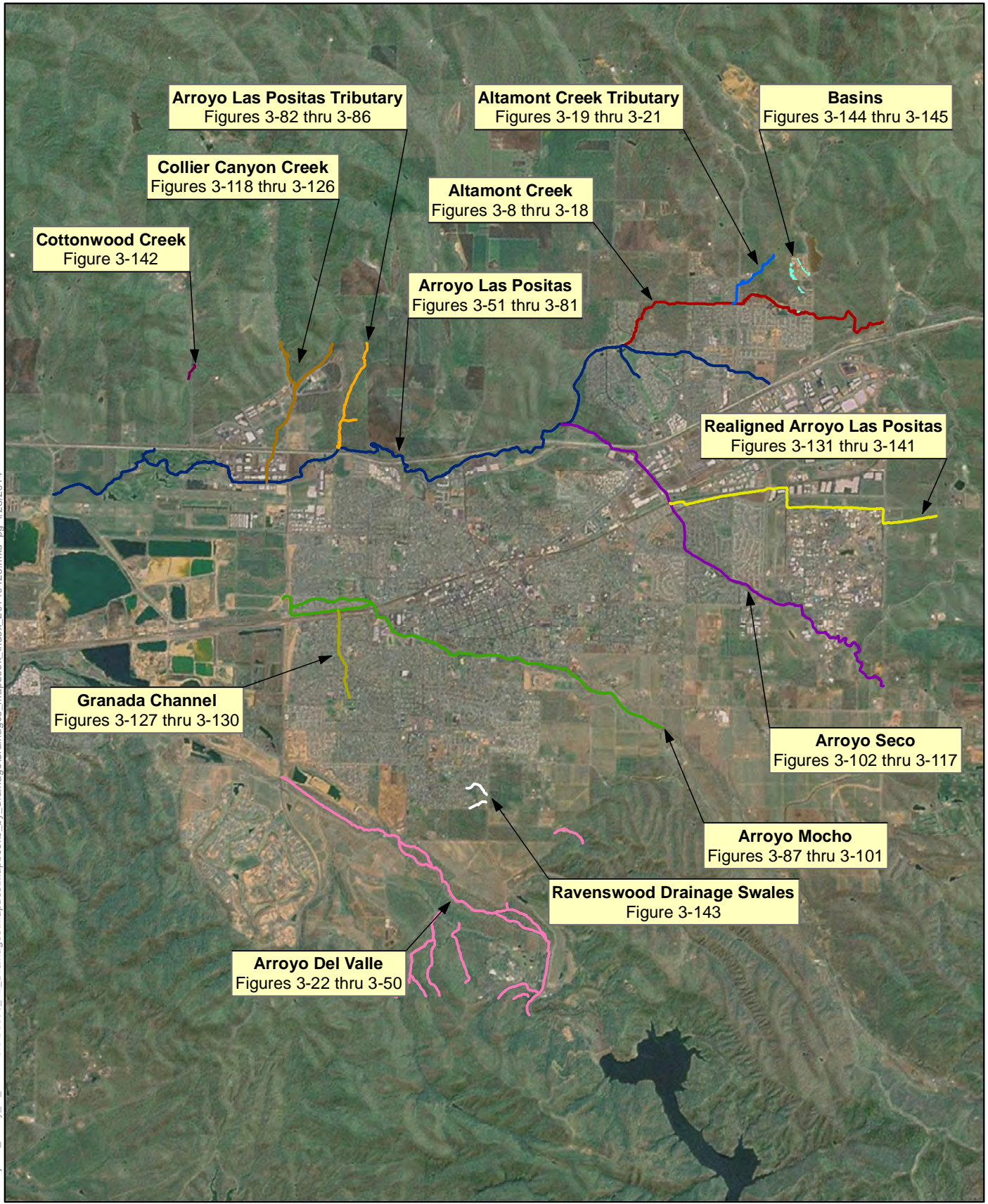
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City of Livermore
Stream Maintenance Program

Figure 3-5
 Hydrologic Soil Groups in Livermore

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Arroyo Las Positas Tributary
Figures 3-82 thru 3-86

Altamont Creek Tributary
Figures 3-19 thru 3-21

Basins
Figures 3-144 thru 3-145

Collier Canyon Creek
Figures 3-118 thru 3-126

Altamont Creek
Figures 3-8 thru 3-18

Cottonwood Creek
Figure 3-142

Arroyo Las Positas
Figures 3-51 thru 3-81

Realigned Arroyo Las Positas
Figures 3-131 thru 3-141

Granada Channel
Figures 3-127 thru 3-130

Arroyo Seco
Figures 3-102 thru 3-117

Arroyo Mocho
Figures 3-87 thru 3-101

Ravenswood Drainage Swales
Figure 3-143

Arroyo Del Valle
Figures 3-22 thru 3-50

**City of Livermore
Stream Maintenance Program**

**Figure 3-7
Drainage Index Map**



**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- Alkali Meadow and Scalds
- Alkali Wetland
- California Annual Grassland
- Golf Course / Urban Park
- Seasonal Wetland
- Urban - Suburban
- Valley Sink Scrub

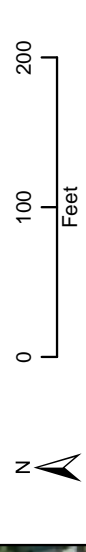


Figure 3-18
Altamont Creek
Page 1 of 11



See Figures 3-40
Arroyo Las Positas
Reach ALP-9

See Figures 3-38 and 3-40
Arroyo Las Positas
Reach ALP-12

Springtown Golf Course
Water Diversion Pond

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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- Alkali Meadow and Scalds
- Alkali Wetland
- California Annual Grassland
- Golf Course / Urban Park
- Seasonal Wetland
- Urban - Suburban
- Valley Sink Scrub

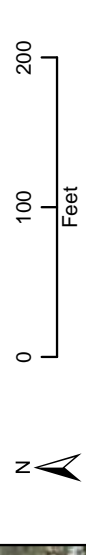
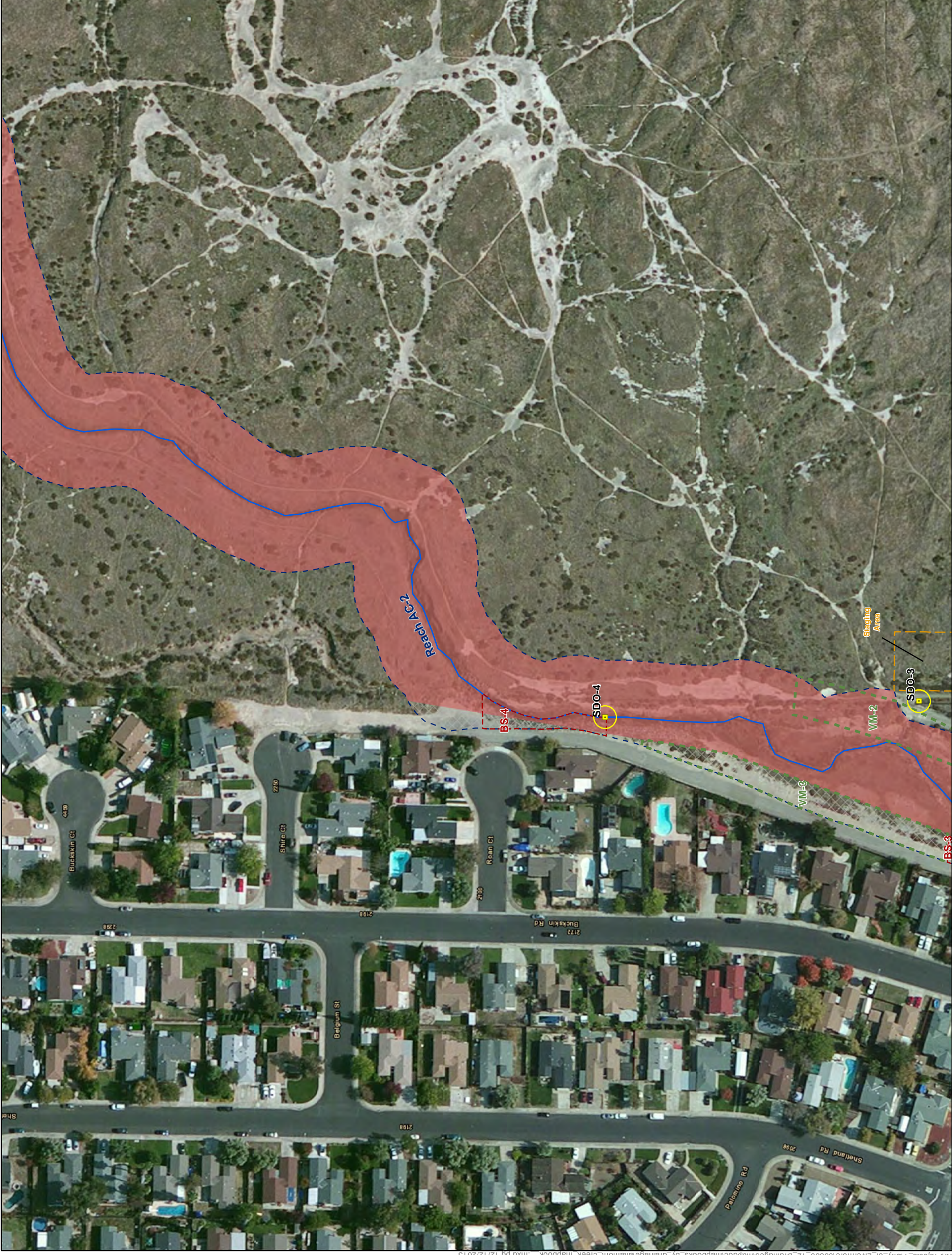


Figure 3-17
Altamont Creek
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- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- Alkali Meadow and Scalds
- Alkali Wetland
- California Annual Grassland
- Golf Course / Urban Park
- Seasonal Wetland
- Urban - Suburban
- Valley Sink Scrub

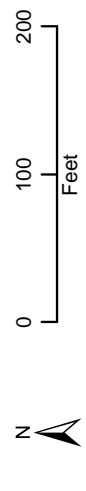
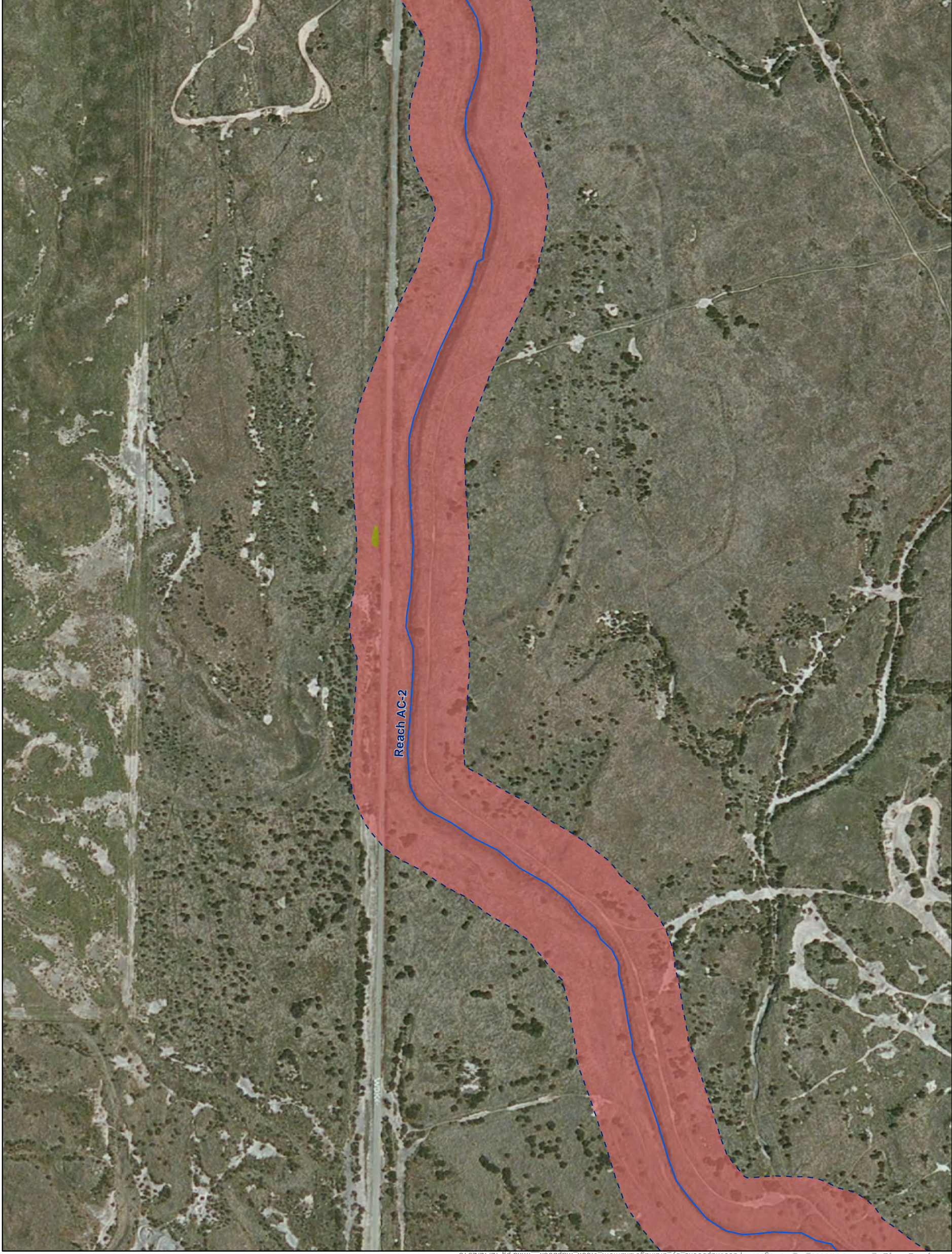
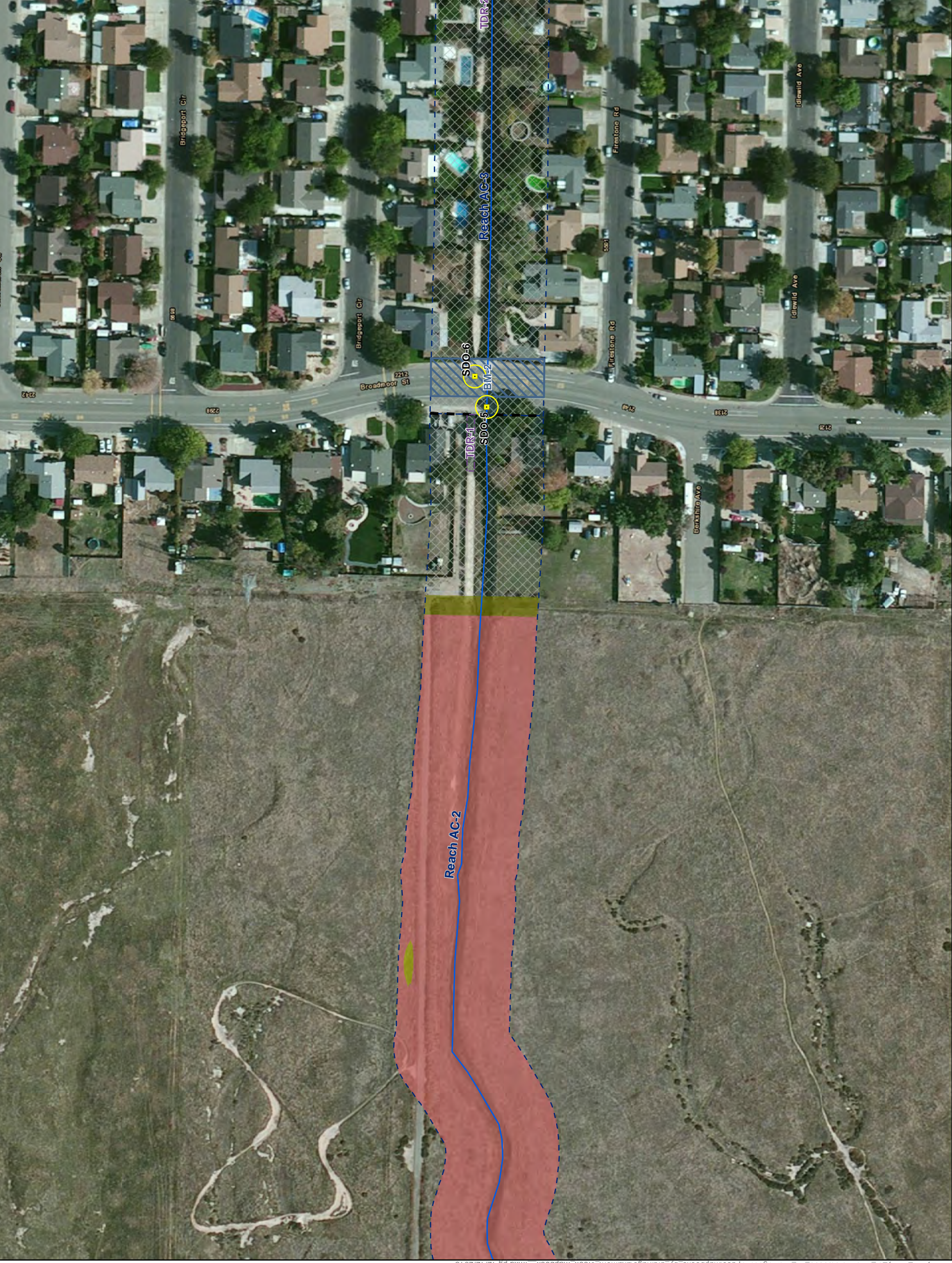


Figure 3-16
Altamont Creek
Page 3 of 11



**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- Alkali Meadow and Scalds
- Alkali Wetland
- California Annual Grassland
- Golf Course / Urban Park
- Seasonal Wetland
- Urban - Suburban
- Valley Sink Scrub

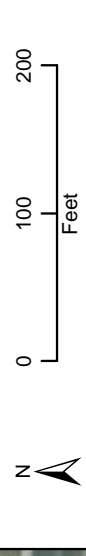
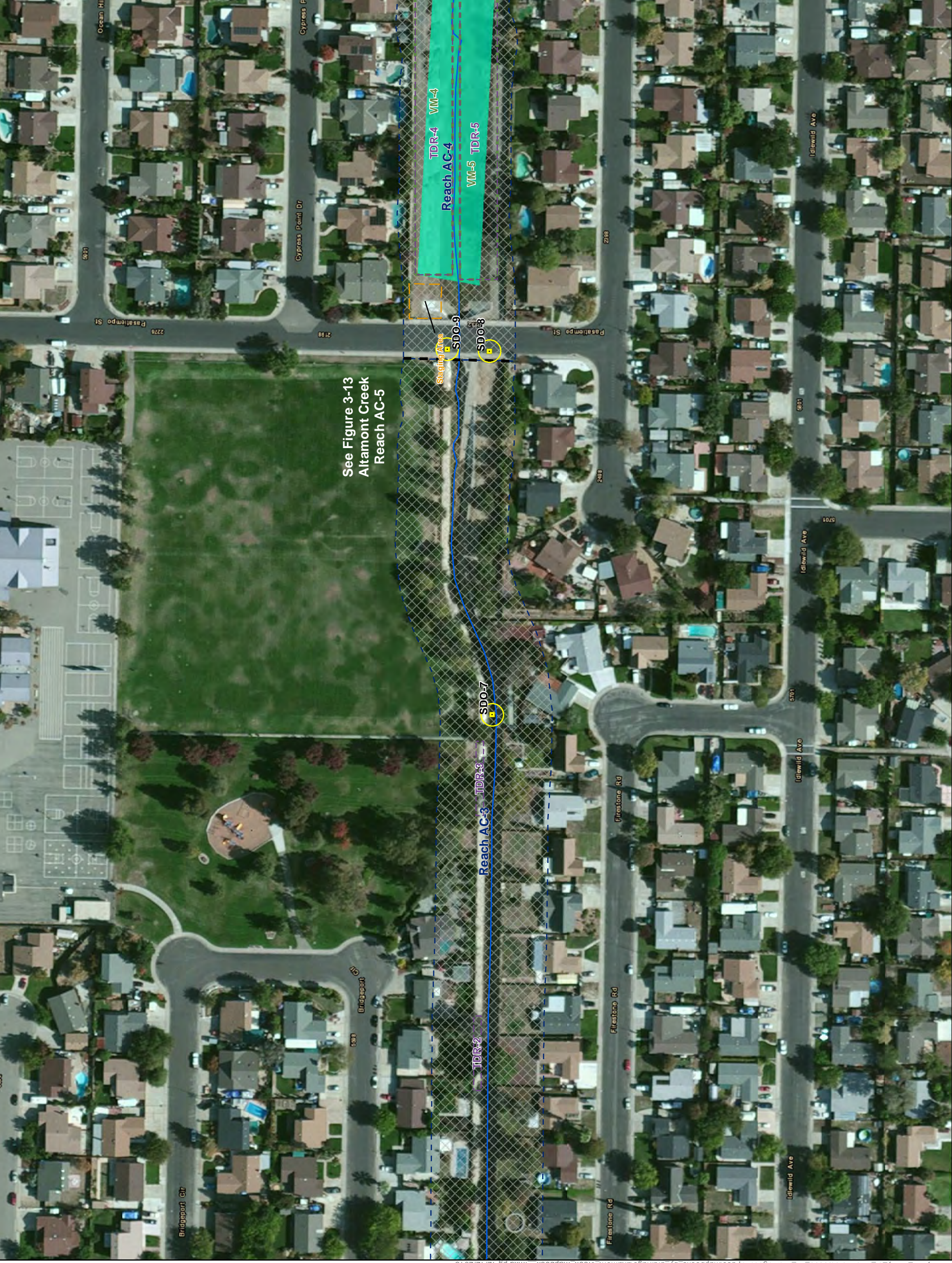


Figure 3-15
Altamont Creek
Page 4 of 11

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**City of Livermore
Stream Maintenance Program**

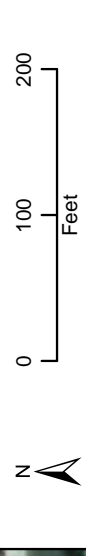
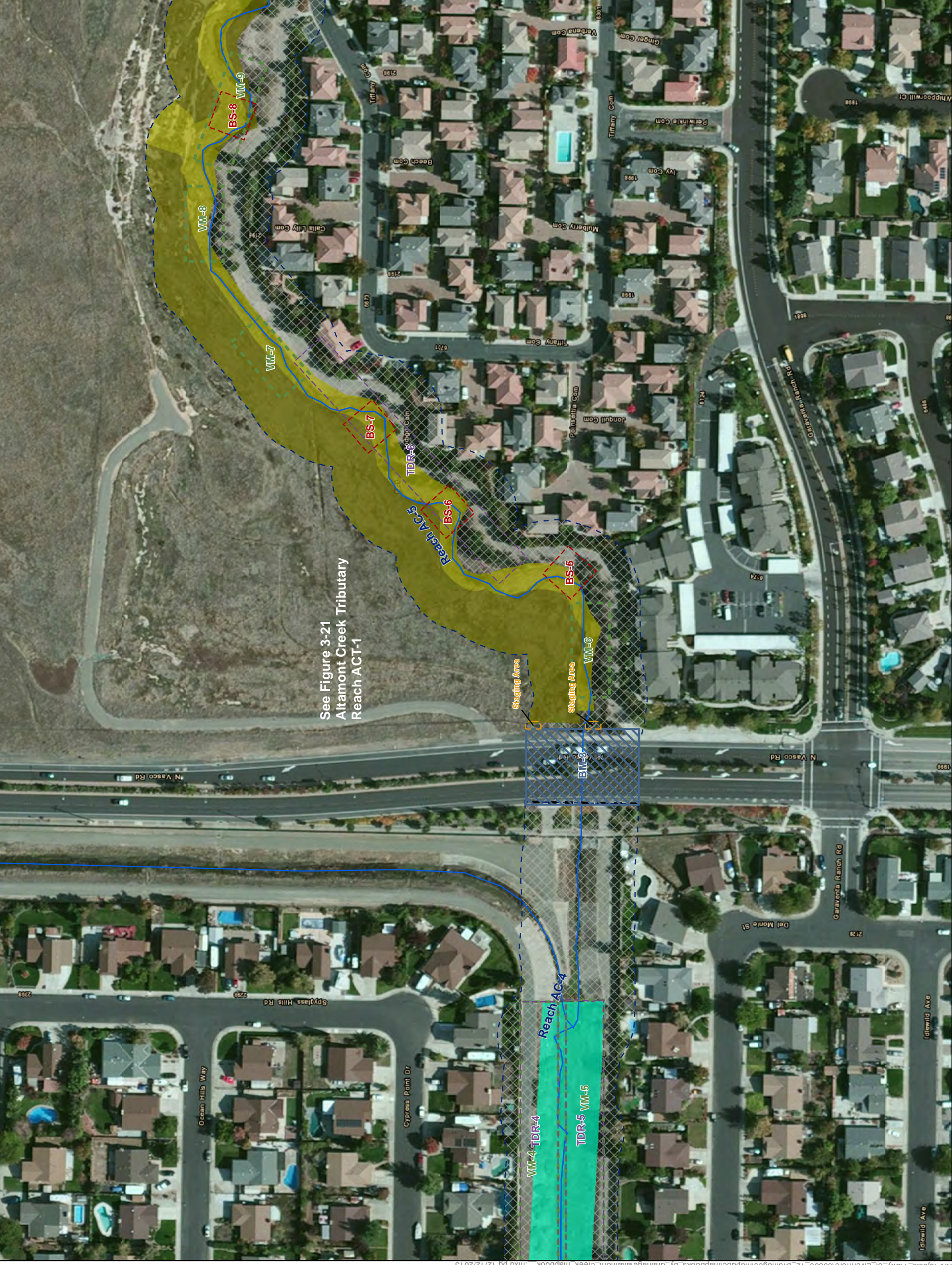


Figure 3-14
Altamont Creek
Page 5 of 11



**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- Alkali Meadow and Scalds
- Alkali Wetland
- California Annual Grassland
- Golf Course / Urban Park
- Seasonal Wetland
- Urban - Suburban
- Valley Sink Scrub

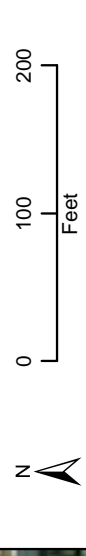


Figure 3-13
Altamont Creek
Page 6 of 11

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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- Alkali Meadow and Scalds
- Alkali Wetland
- California Annual Grassland
- Golf Course / Urban Park
- Seasonal Wetland
- Urban - Suburban
- Valley Sink Scrub

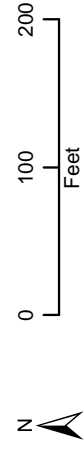


Figure 3-12
Altamont Creek
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- Alkali Meadow and Scalds
- Alkali Wetland
- California Annual Grassland
- Golf Course / Urban Park
- Seasonal Wetland
- Urban - Suburban
- Valley Sink Scrub

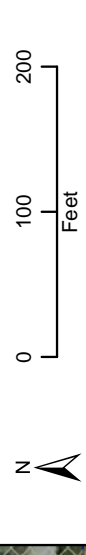
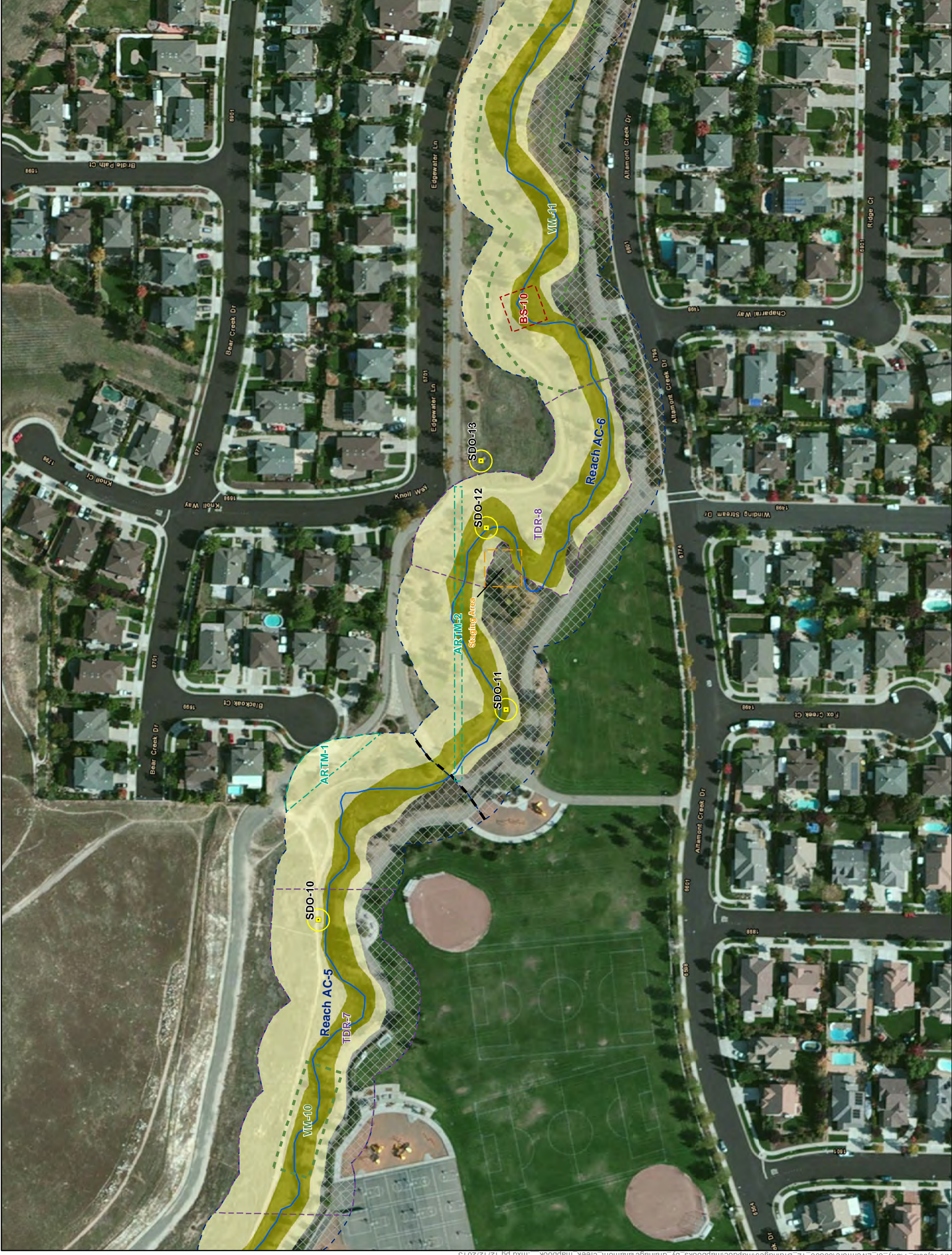













Figure 3-11
Altamont Creek
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-  Stream with Reach ID
-  Reach Break
-  75-foot Stream Buffer
-  Storm Drain Outfall (SDO) Impact Area

- Land Cover**
-  Alkali Meadow and Scalds
 -  Alkali Wetland
 -  California Annual Grassland
 -  Golf Course / Urban Park
 -  Seasonal Wetland
 -  Urban - Suburban
 -  Valley Sink Scrub

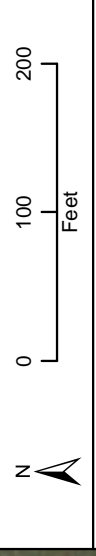


Figure 3-10
 Altamont Creek
 Page 9 of 11

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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- Alkali Meadow and Scalds
- Alkali Wetland
- California Annual Grassland
- Golf Course / Urban Park
- Seasonal Wetland
- Urban - Suburban
- Valley Sink Scrub

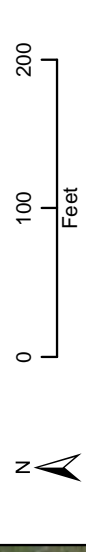
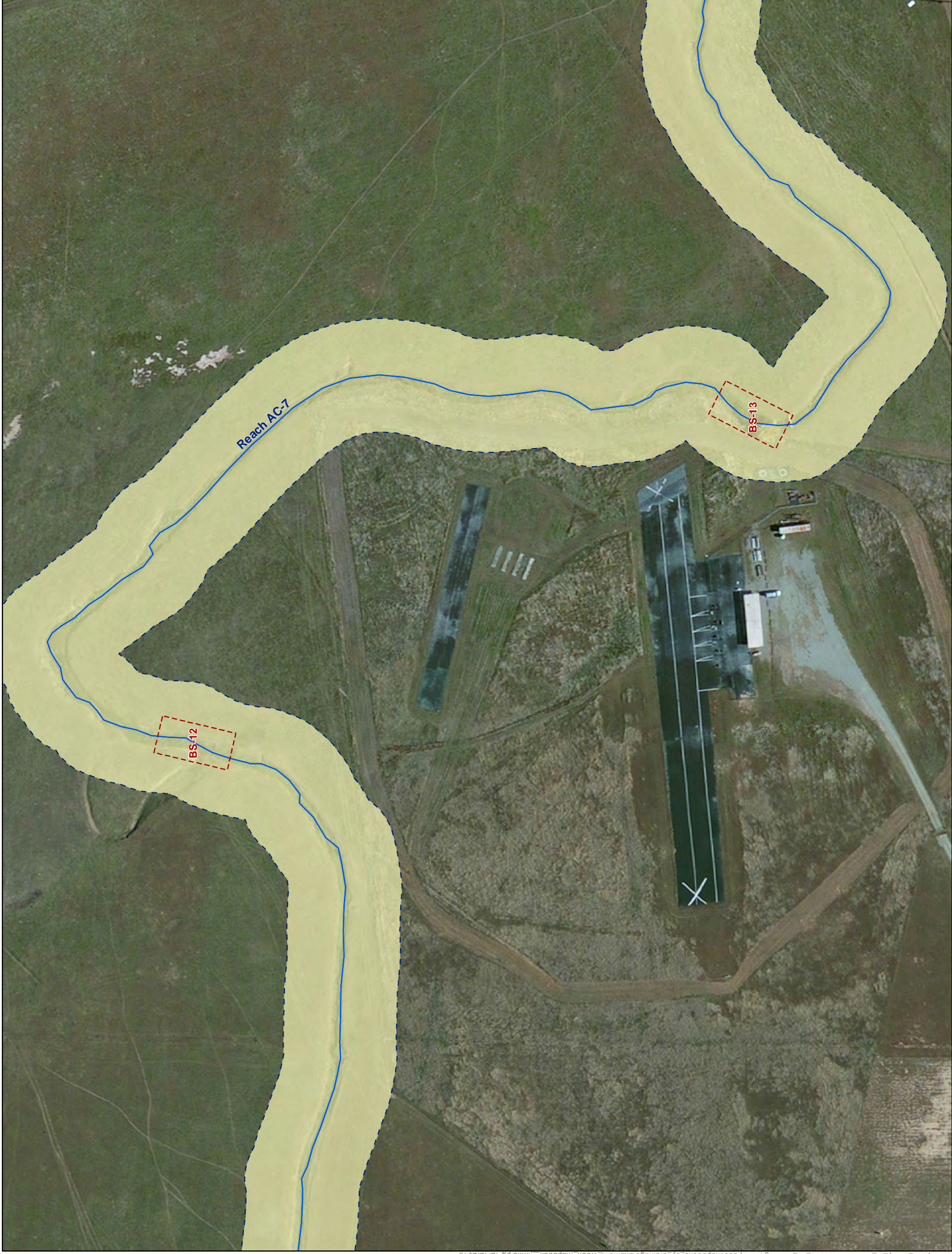


Figure 3-9
Altamont Creek
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- Alkali Meadow and Scalds
- Alkali Wetland
- California Annual Grassland
- Golf Course / Urban Park
- Seasonal Wetland
- Urban - Suburban
- Valley Sink Scrub

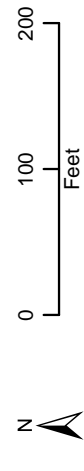
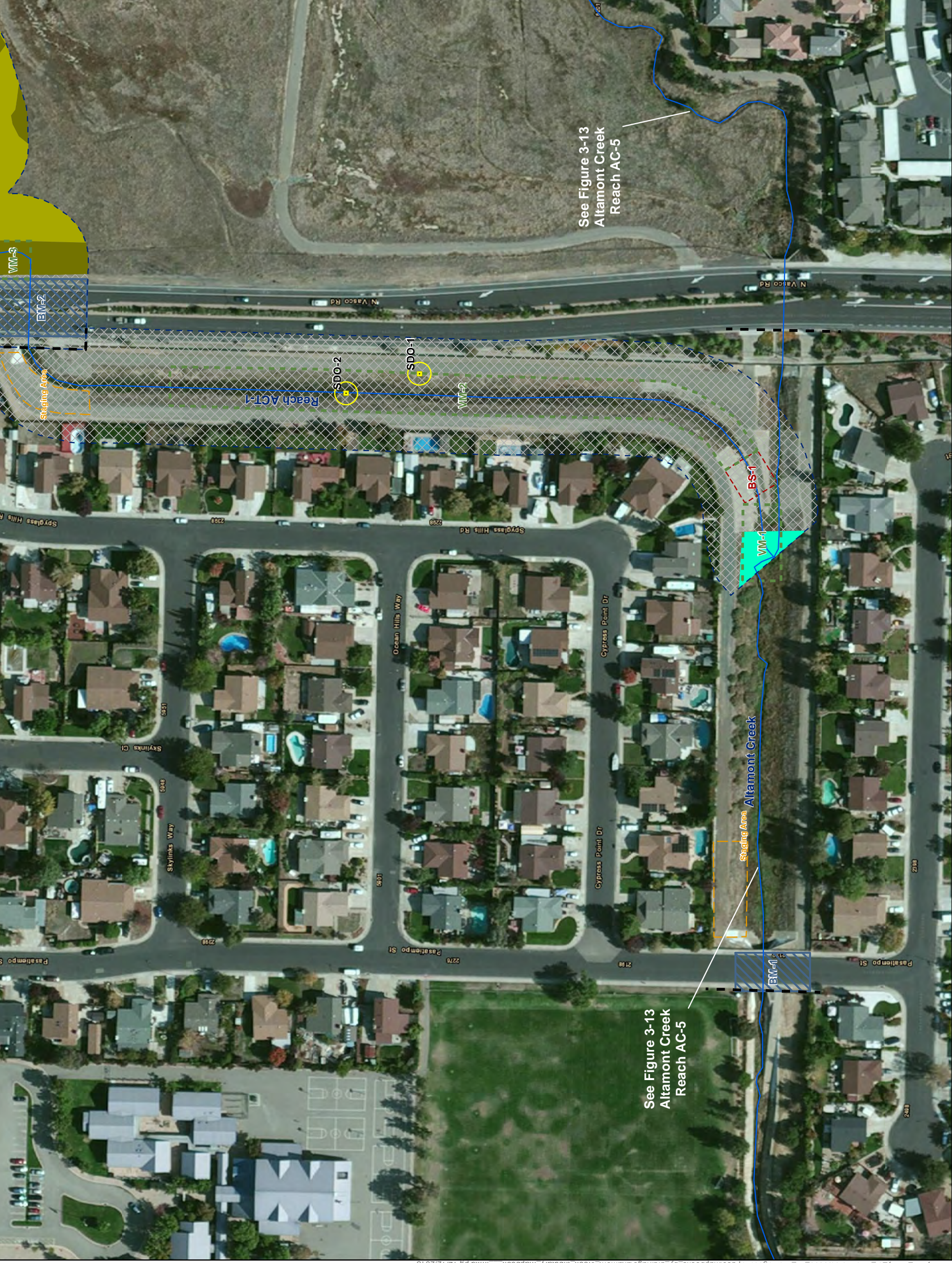


Figure 3-8
Altamont Creek
Page 11 of 11





**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- Alkali Meadow and Scalds
- Alkali Wetland
- Seasonal Wetland
- Urban - Suburban
- Valley Sink Scrub

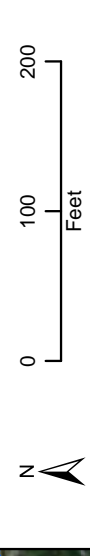


Figure 3-21
Altamont Creek Tributary
Page 1 of 3

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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- Alkali Meadow and Scalds
 - Alkali Wetland
 - Seasonal Wetland
 - Urban - Suburban
 - Valley Sink Scrub

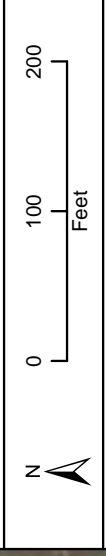
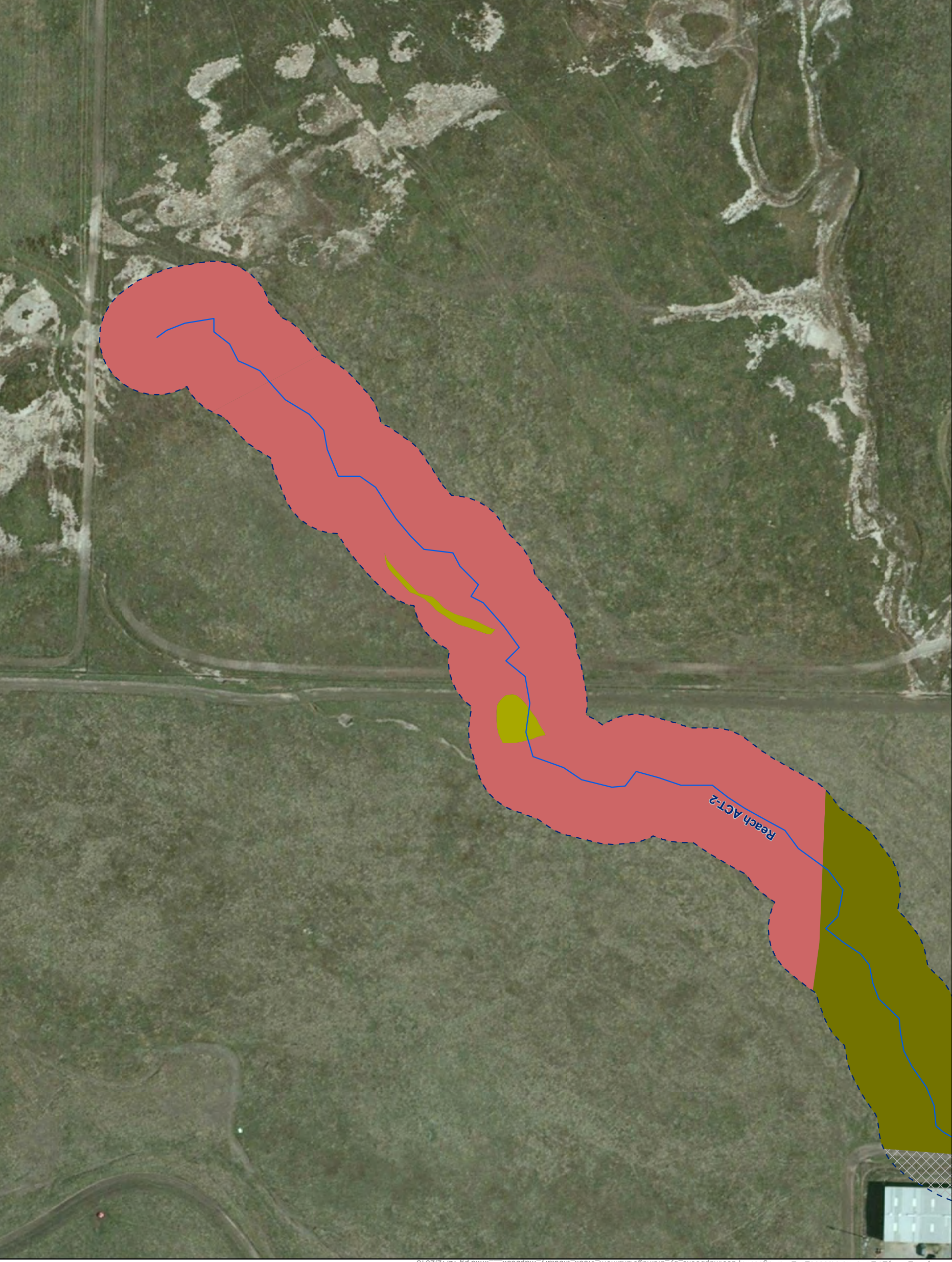


Figure 3-20
Altamont Creek Tributary
Page 2 of 3

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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- Alkali Meadow and Scalds
- Alkali Wetland
- Seasonal Wetland
- Urban - Suburban
- Valley Sink Scrub

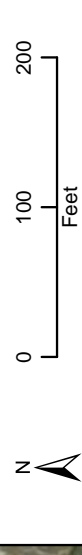


Figure 3-19
Altamont Creek Tributary
Page 3 of 3

- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- California Annual Grassland
- Mixed Evergreen Forest / Oak Woodland
- Mixed Riparian Forest and Woodland
- Mixed Willow Riparian Scrub
- Northern Coastal Scrub
- Pond
- Riverine
- Ruderal
- Sycamore Alluvial Woodland
- Urban - Suburban
- Vineyard

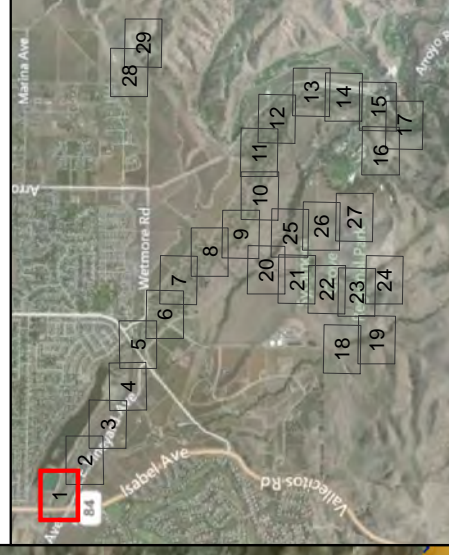
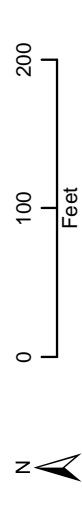
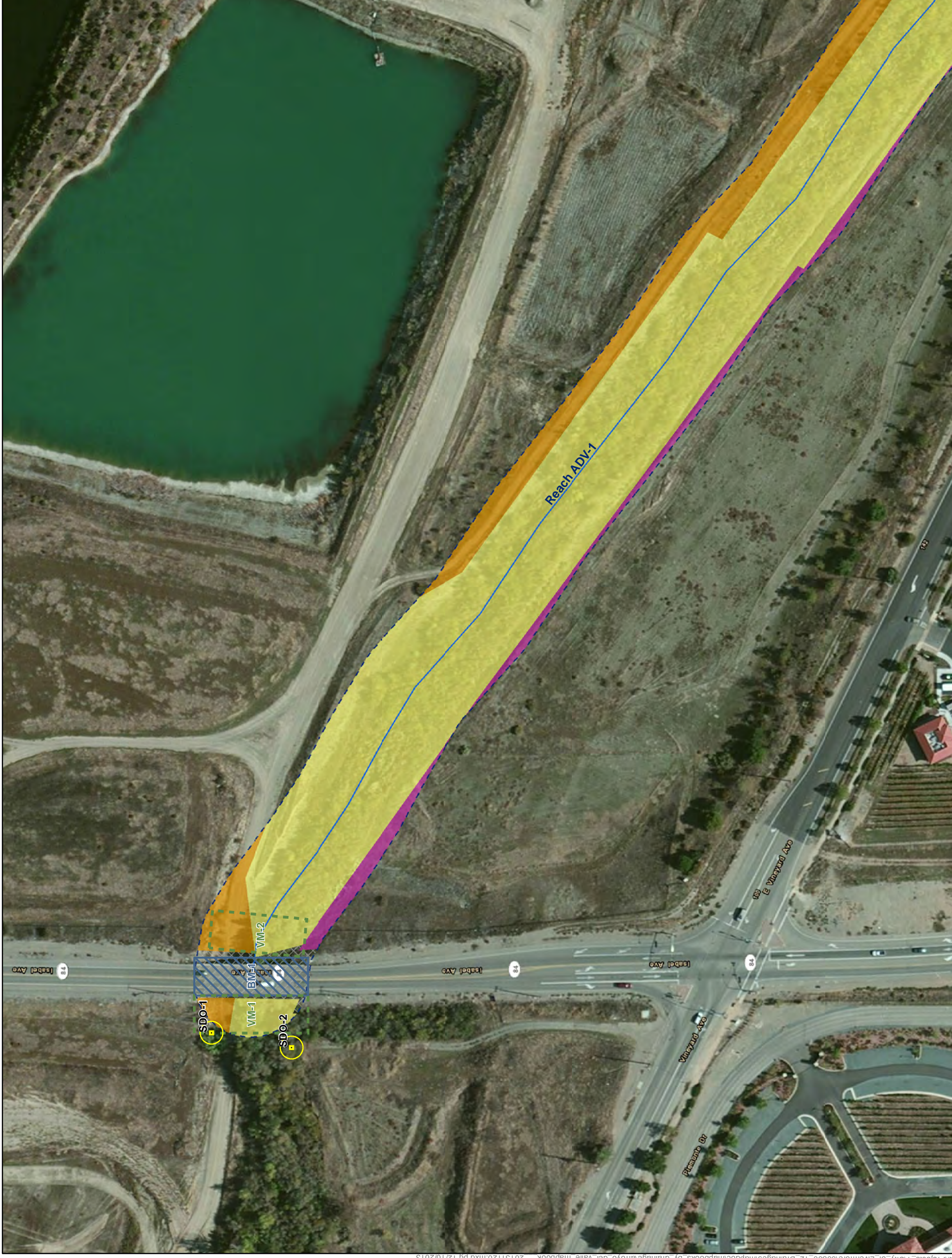


Figure 3-22
Arroyo Del Valle
Page 1 of 29



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- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- California Annual Grassland
- Mixed Evergreen Forest / Oak Woodland
- Mixed Riparian Forest and Woodland
- Mixed Willow Riparian Scrub
- Northern Coastal Scrub
- Pond
- Riverine
- Ruderal
- Sycamore Alluvial Woodland
- Urban - Suburban
- Vineyard

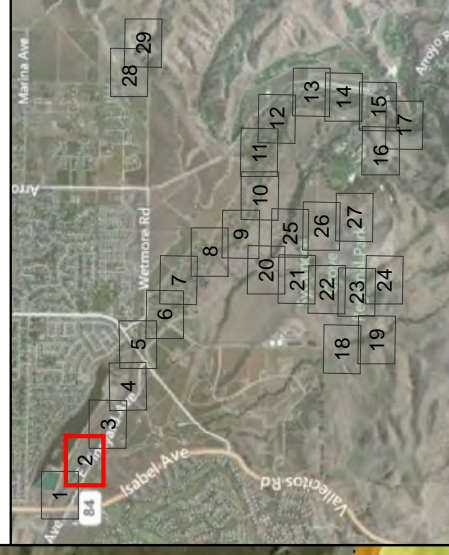
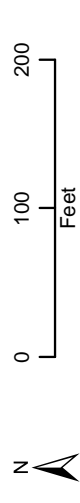


Figure 3-23
Arroyo Del Valle
Page 2 of 29



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- California Annual Grassland
- Mixed Evergreen Forest / Oak Woodland
- Mixed Riparian Forest and Woodland
- Mixed Willow Riparian Scrub
- Northern Coastal Scrub
- Pond
- Riverine
- Ruderal
- Sycamore Alluvial Woodland
- Urban - Suburban
- Vineyard

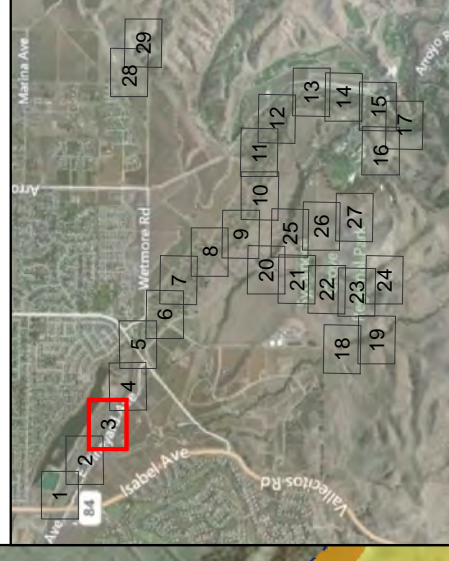
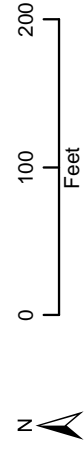
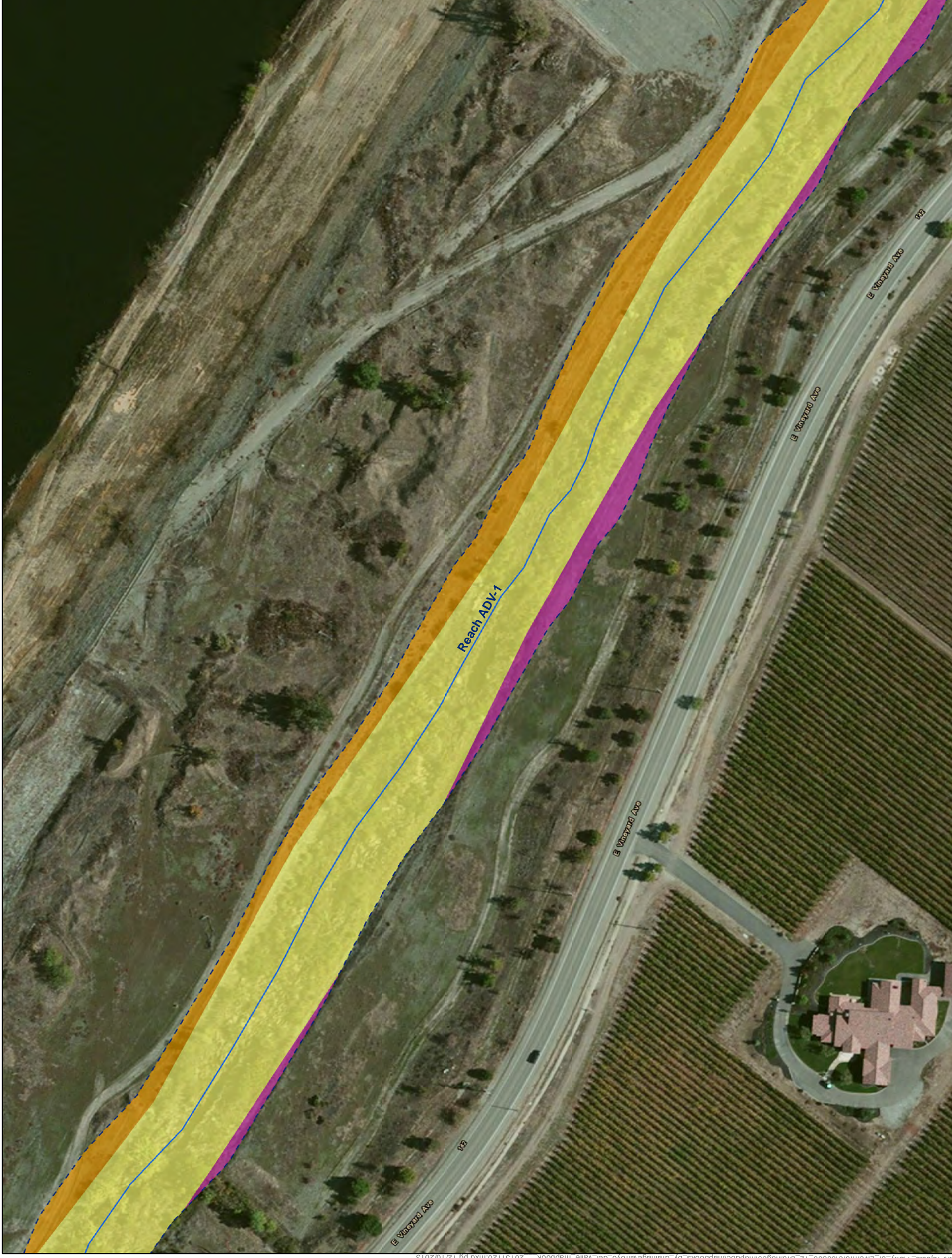

















Figure 3-24
Arroyo Del Valle
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-  Stream with Reach ID
-  Reach Break
-  75-foot Stream Buffer
-  Storm Drain Outfall (SDO) Impact Area

Land Cover

-  California Annual Grassland
-  Mixed Evergreen Forest / Oak Woodland
-  Mixed Riparian Forest and Woodland
-  Mixed Willow Riparian Scrub
-  Northern Coastal Scrub
-  Pond
-  Riverine
-  Ruderal
-  Sycamore Alluvial Woodland
-  Urban - Suburban
-  Vineyard

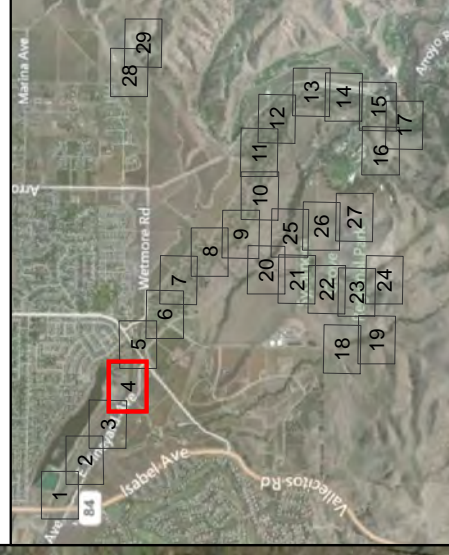
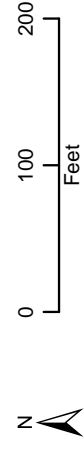
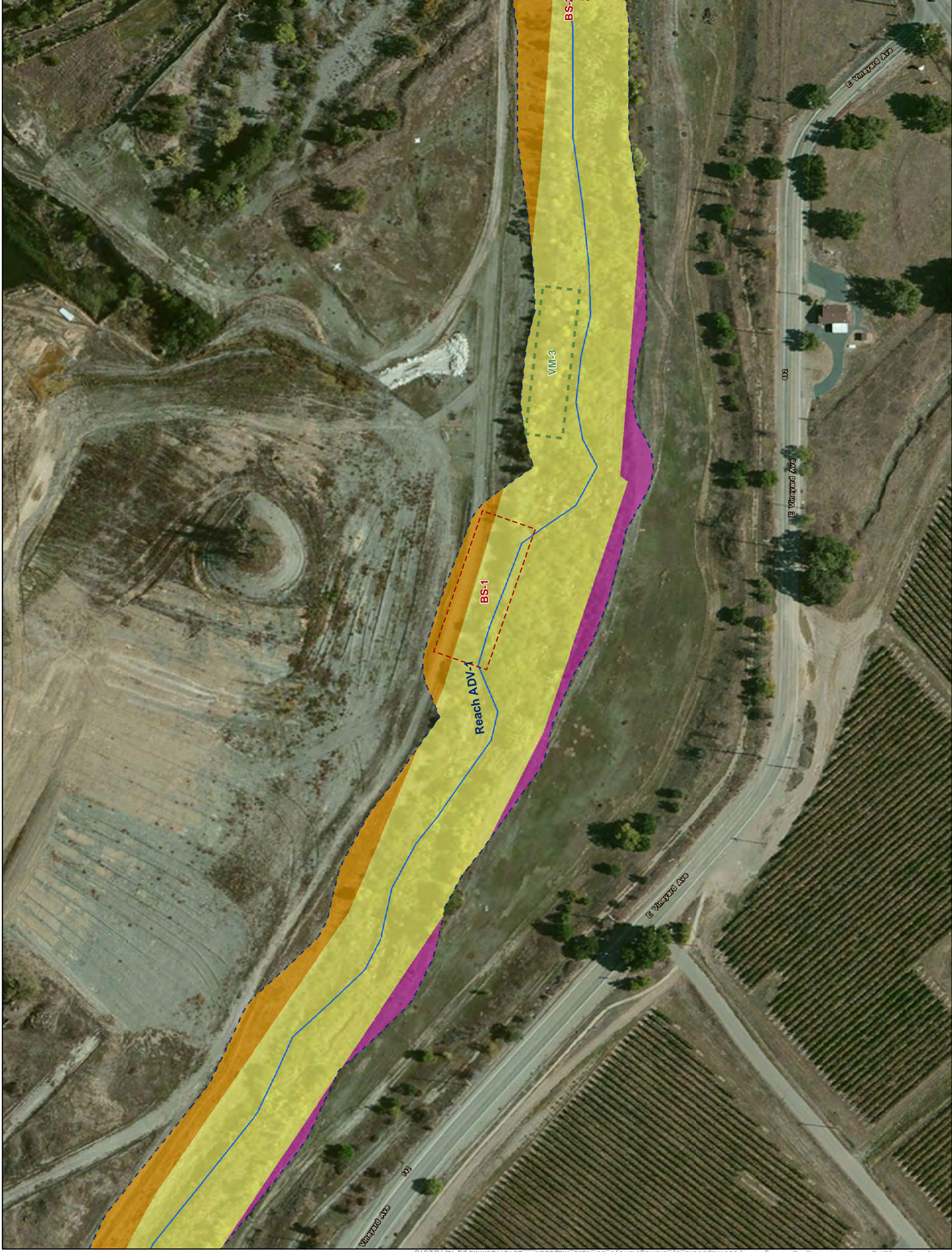


Figure 3-25
Arroyo del Valle
Page 4 of 29



**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- California Annual Grassland
- Mixed Evergreen Forest / Oak Woodland
- Mixed Riparian Forest and Woodland
- Mixed Willow Riparian Scrub
- Northern Coastal Scrub
- Pond
- Riverine
- Ruderal
- Sycamore Alluvial Woodland
- Urban - Suburban
- Vineyard

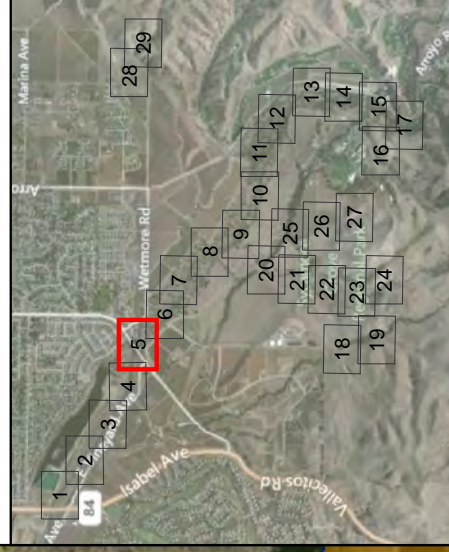
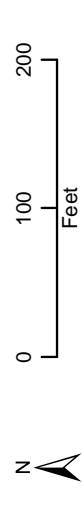






Figure 3-26
Arroyo Del Valle
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-  Stream with Reach ID
-  Reach Break
-  75-foot Stream Buffer
-  Storm Drain Outfall (SDO) Impact Area

Land Cover

-  California Annual Grassland
-  Mixed Evergreen Forest / Oak Woodland
-  Mixed Riparian Forest and Woodland
-  Mixed Willow Riparian Scrub
-  Northern Coastal Scrub
-  Pond
-  Riverine
-  Ruderal
-  Sycamore Alluvial Woodland
-  Urban - Suburban
-  Vineyard

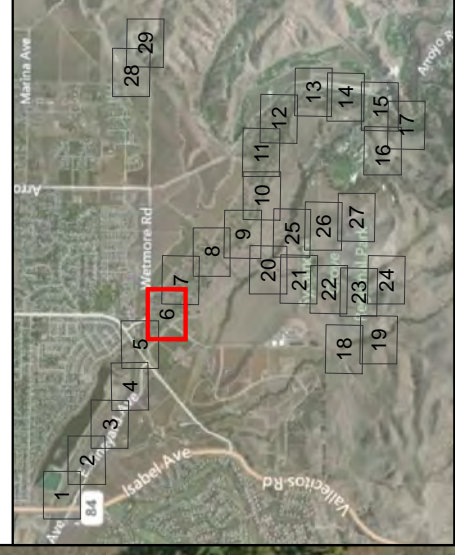


Figure 3-27
Arroyo Del Valle
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- California Annual Grassland
- Mixed Evergreen Forest / Oak Woodland
- Mixed Riparian Forest and Woodland
- Mixed Willow Riparian Scrub
- Northern Coastal Scrub
- Pond
- Riverine
- Ruderal
- Sycamore Alluvial Woodland
- Urban - Suburban
- Vineyard

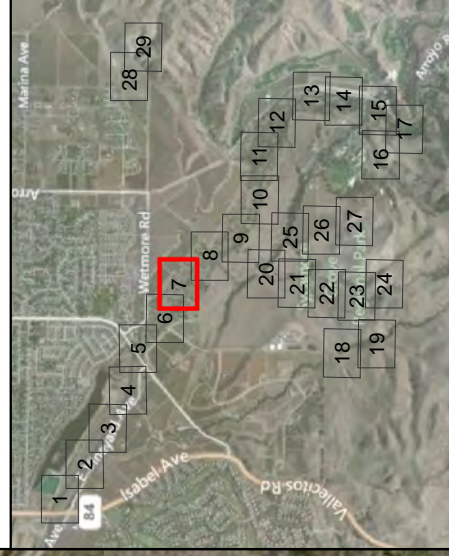
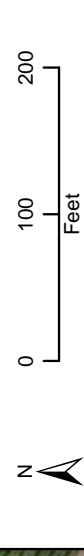


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**City of Livermore
Stream Maintenance Program**

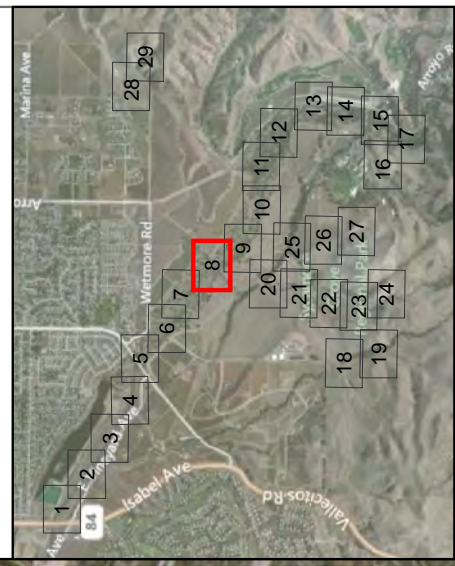
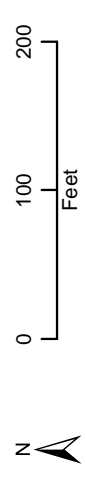


Figure 3-29
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**City of Livermore
Stream Maintenance Program**

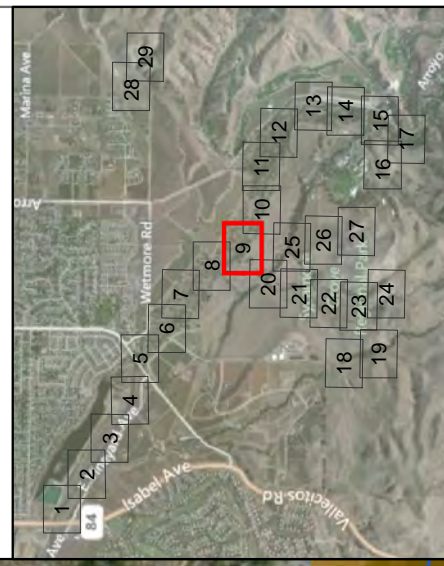


Figure 3-30
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- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- California Annual Grassland
- Mixed Evergreen Forest / Oak Woodland
- Mixed Riparian Forest and Woodland
- Mixed Willow Riparian Scrub
- Northern Coastal Scrub
- Pond
- Riverine
- Ruderal
- Sycamore Alluvial Woodland
- Urban - Suburban
- Vineyard

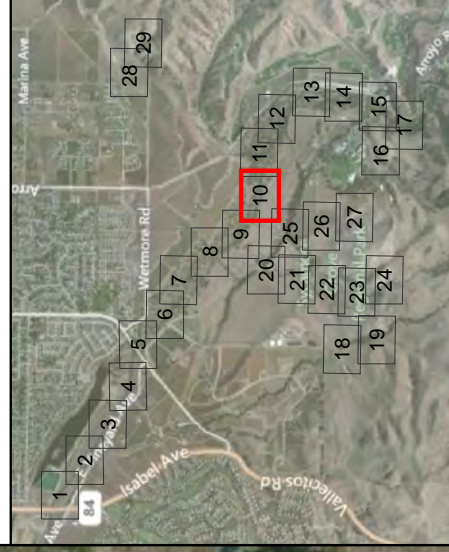
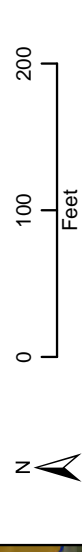


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- - - Reach Break
- - - 75-foot Stream Buffer
- Ⓜ Storm Drain Outfall (SDO) Impact Area

Land Cover

California Annual Grassland	California Annual Grassland
Mixed Evergreen Forest / Oak Woodland	Mixed Evergreen Forest / Oak Woodland
Mixed Riparian Forest and Woodland	Mixed Riparian Forest and Woodland
Mixed Willow Riparian Scrub	Mixed Willow Riparian Scrub
Northern Coastal Scrub	Northern Coastal Scrub
Pond	Pond
Riverine	Riverine
Ruderal	Ruderal
Sycamore Alluvial Woodland	Sycamore Alluvial Woodland
Urban - Suburban	Urban - Suburban
Vineyard	Vineyard

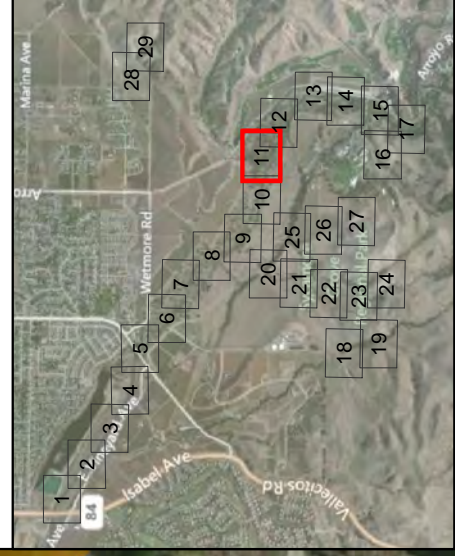
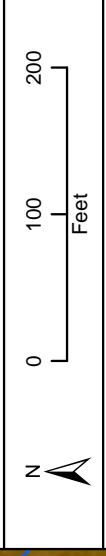


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- California Annual Grassland
- Mixed Evergreen Forest / Oak Woodland
- Mixed Riparian Forest and Woodland
- Mixed Willow Riparian Scrub
- Northern Coastal Scrub
- Pond
- Riverine
- Ruderal
- Sycamore Alluvial Woodland
- Urban - Suburban
- Vineyard

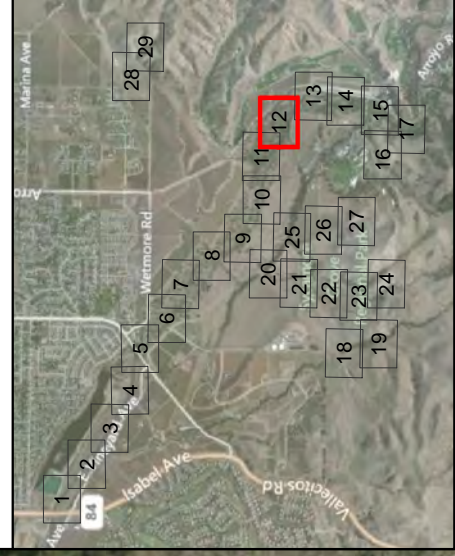
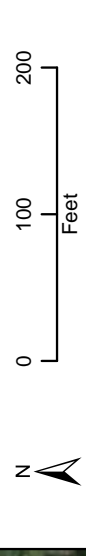


Figure 3-33
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

- Land Cover**
- California Annual Grassland
 - Mixed Evergreen Forest / Oak Woodland
 - Mixed Riparian Forest and Woodland
 - Mixed Willow Riparian Scrub
 - Northern Coastal Scrub
 - Pond
 - Riverine
 - Ruderal
 - Sycamore Alluvial Woodland
 - Urban - Suburban
 - Vineyard

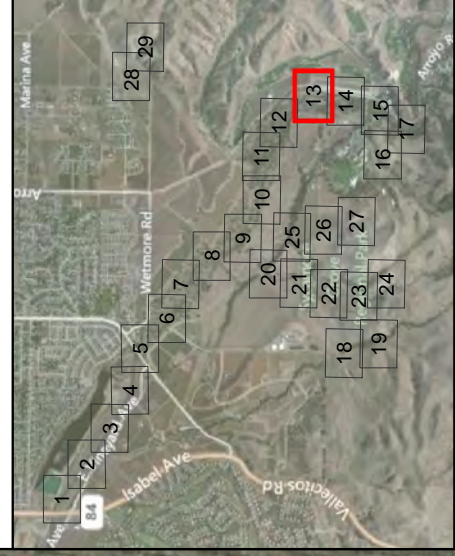
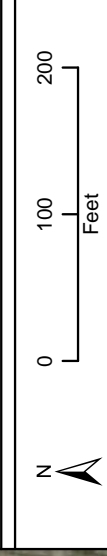


Figure 3-34
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- California Annual Grassland
- Mixed Evergreen Forest / Oak Woodland
- Mixed Riparian Forest and Woodland
- Mixed Willow Riparian Scrub
- Northern Coastal Scrub
- Pond
- Riverine
- Ruderal
- Sycamore Alluvial Woodland
- Urban - Suburban
- Vineyard

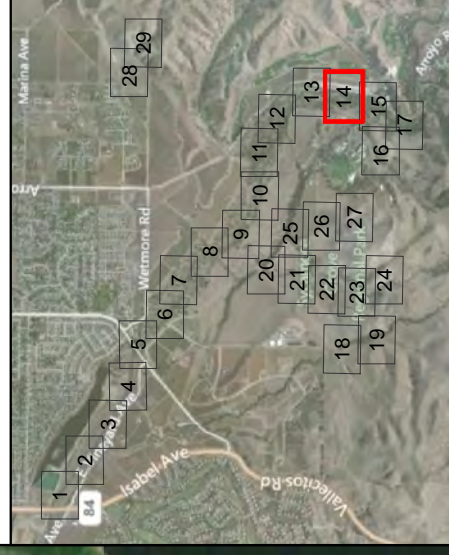


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- California Annual Grassland
- Mixed Evergreen Forest /
- Oak Woodland
- Mixed Riparian Forest and Woodland
- Mixed Willow Riparian Scrub
- Northern Coastal Scrub
- Pond
- Riverine
- Ruderal
- Sycamore Alluvial Woodland
- Urban - Suburban
- Vineyard

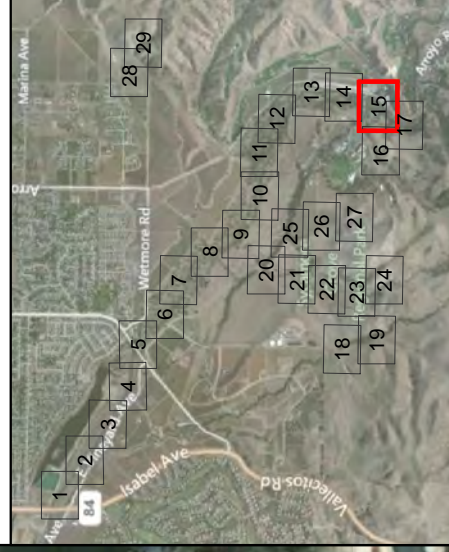
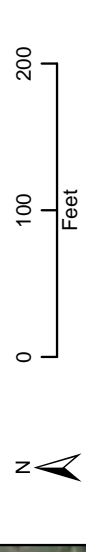


Figure 3-36
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

- Land Cover**
- California Annual Grassland
 - Mixed Evergreen Forest /
 - Oak Woodland
 - Mixed Riparian Forest and Woodland
 - Mixed Willow Riparian Scrub
 - Northern Coastal Scrub
 - Pond
 - Riverine
 - Ruderal
 - Sycamore Alluvial Woodland
 - Urban - Suburban
 - Vineyard

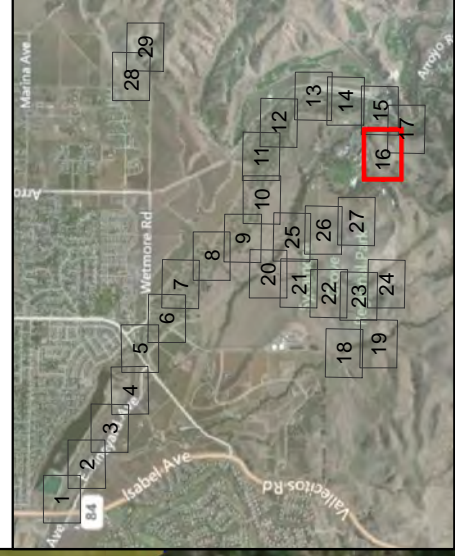
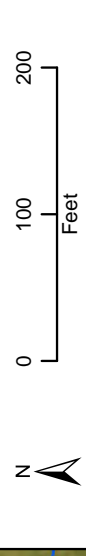


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- California Annual Grassland
- Mixed Evergreen Forest / Oak Woodland
- Mixed Riparian Forest and Woodland
- Mixed Willow Riparian Scrub
- Northern Coastal Scrub
- Pond
- Riverine
- Ruderal
- Sycamore Alluvial Woodland
- Urban - Suburban
- Vineyard

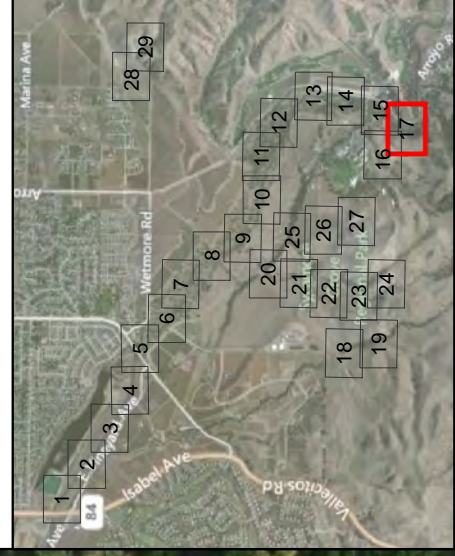
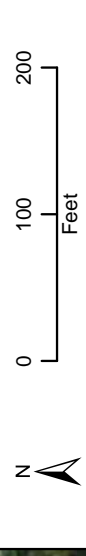


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- California Annual Grassland
- Mixed Evergreen Forest / Oak Woodland
- Mixed Riparian Forest and Woodland
- Mixed Willow Riparian Scrub
- Northern Coastal Scrub
- Pond
- Riverine
- Ruderal
- Sycamore Alluvial Woodland
- Urban - Suburban
- Vineyard

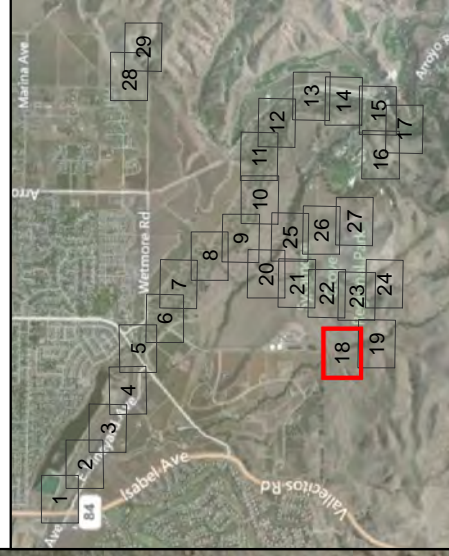
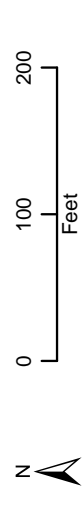


Figure 3-39
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- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- California Annual Grassland
- Mixed Evergreen Forest / Oak Woodland
- Mixed Riparian Forest and Woodland
- Mixed Willow Riparian Scrub
- Northern Coastal Scrub
- Pond
- Riverine
- Ruderal
- Sycamore Alluvial Woodland
- Urban - Suburban
- Vineyard

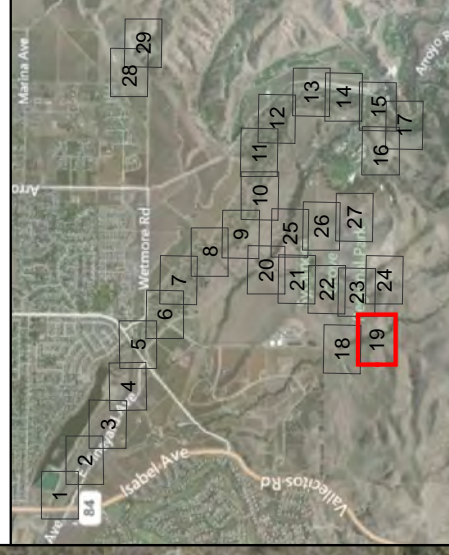


Figure 3-40
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- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- California Annual Grassland
- Mixed Evergreen Forest / Oak Woodland
- Mixed Riparian Forest and Woodland
- Mixed Willow Riparian Scrub
- Northern Coastal Scrub
- Pond
- Riverine
- Ruderal
- Sycamore Alluvial Woodland
- Urban - Suburban
- Vineyard

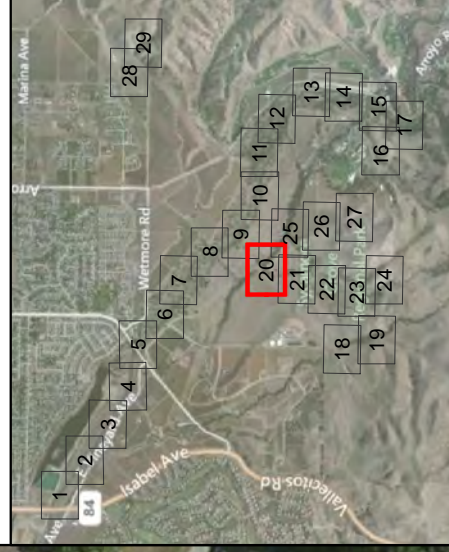


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- California Annual Grassland
- Mixed Evergreen Forest / Oak Woodland
- Mixed Riparian Forest and Woodland
- Mixed Willow Riparian Scrub
- Northern Coastal Scrub
- Pond
- Riverine
- Ruderal
- Sycamore Alluvial Woodland
- Urban - Suburban
- Vineyard

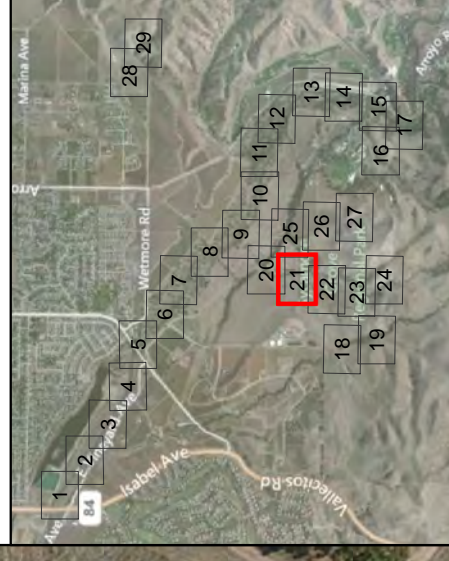
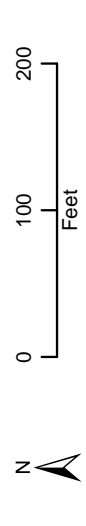






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-  Stream with Reach ID
-  Reach Break
-  75-foot Stream Buffer
-  Storm Drain Outfall (SDO) Impact Area

Land Cover

-  California Annual Grassland
-  Mixed Evergreen Forest / Oak Woodland
-  Mixed Riparian Forest and Woodland
-  Mixed Willow Riparian Scrub
-  Northern Coastal Scrub
-  Pond
-  Riverine
-  Ruderal
-  Sycamore Alluvial Woodland
-  Urban - Suburban
-  Vineyard

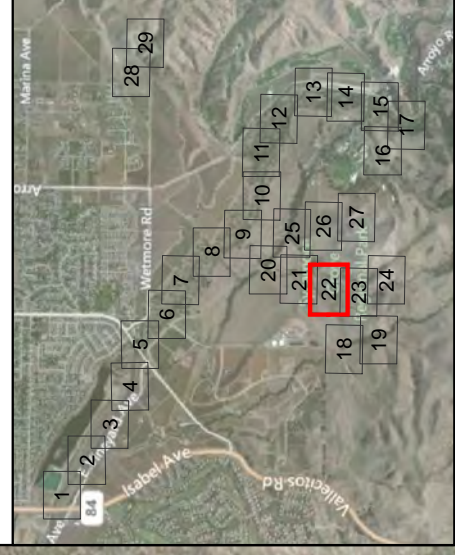


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- California Annual Grassland
- Mixed Evergreen Forest / Oak Woodland
- Mixed Riparian Forest and Woodland
- Mixed Willow Riparian Scrub
- Northern Coastal Scrub
- Pond
- Riverine
- Ruderal
- Sycamore Alluvial Woodland
- Urban - Suburban
- Vineyard

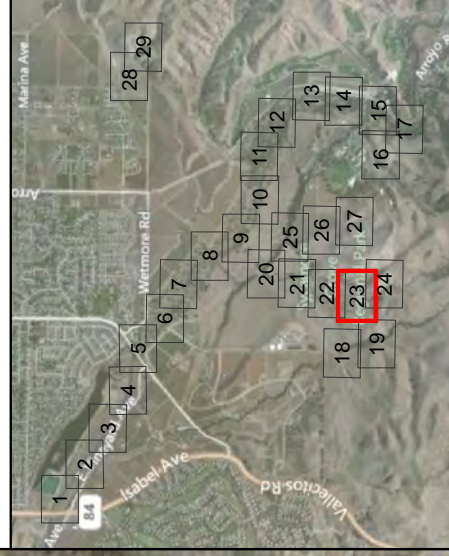
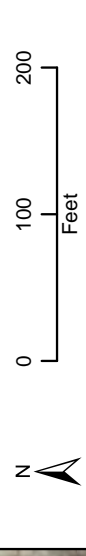


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- - - Reach Break
- - - 75-foot Stream Buffer
- ⊕ Storm Drain Outfall (SDO) Impact Area

- Land Cover**
- California Annual Grassland
 - Mixed Evergreen Forest / Oak Woodland
 - Mixed Riparian Forest and Woodland
 - Mixed Willow Riparian Scrub
 - Northern Coastal Scrub
 - Pond
 - Riverine
 - Ruderal
 - Sycamore Alluvial Woodland
 - Urban - Suburban
 - Vineyard

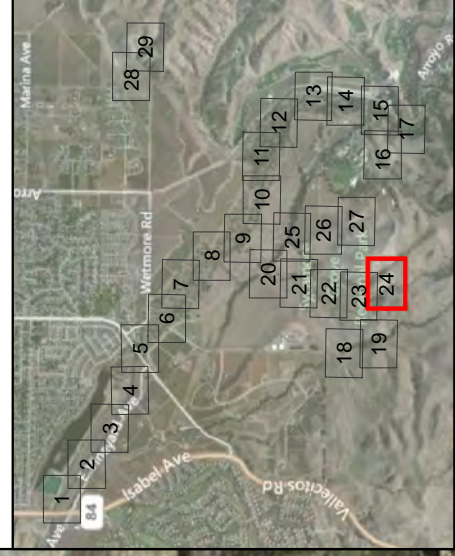
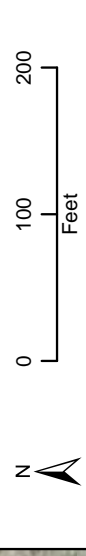


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- California Annual Grassland
- Mixed Evergreen Forest / Oak Woodland
- Mixed Riparian Forest and Woodland
- Mixed Willow Riparian Scrub
- Northern Coastal Scrub
- Pond
- Riverine
- Ruderal
- Sycamore Alluvial Woodland
- Urban - Suburban
- Vineyard

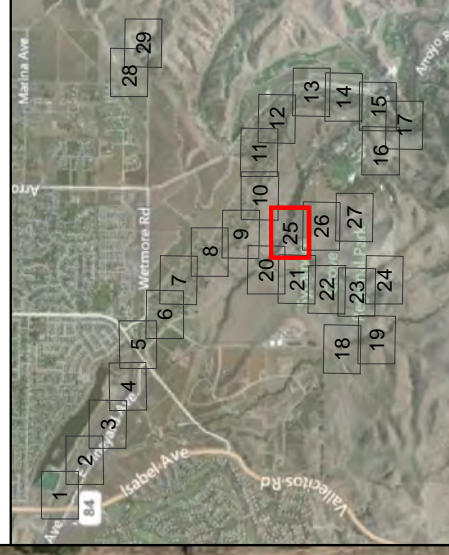


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Arroyo Del Valle
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- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

- Land Cover**
- California Annual Grassland
 - Mixed Evergreen Forest / Oak Woodland
 - Mixed Riparian Forest and Woodland
 - Mixed Willow Riparian Scrub
 - Northern Coastal Scrub
 - Pond
 - Riverine
 - Ruderal
 - Sycamore Alluvial Woodland
 - Urban - Suburban
 - Vineyard

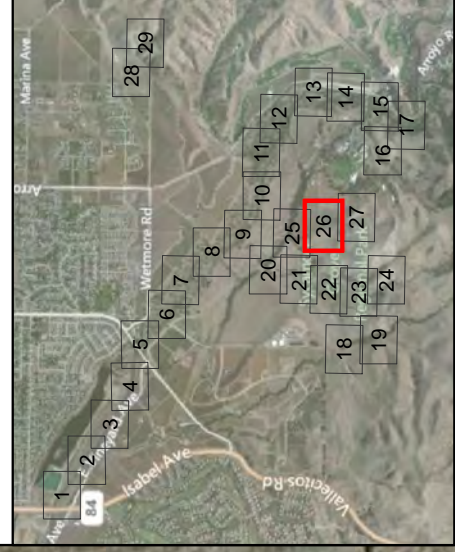
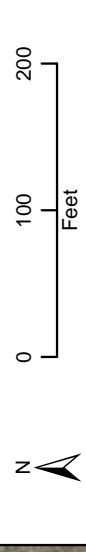
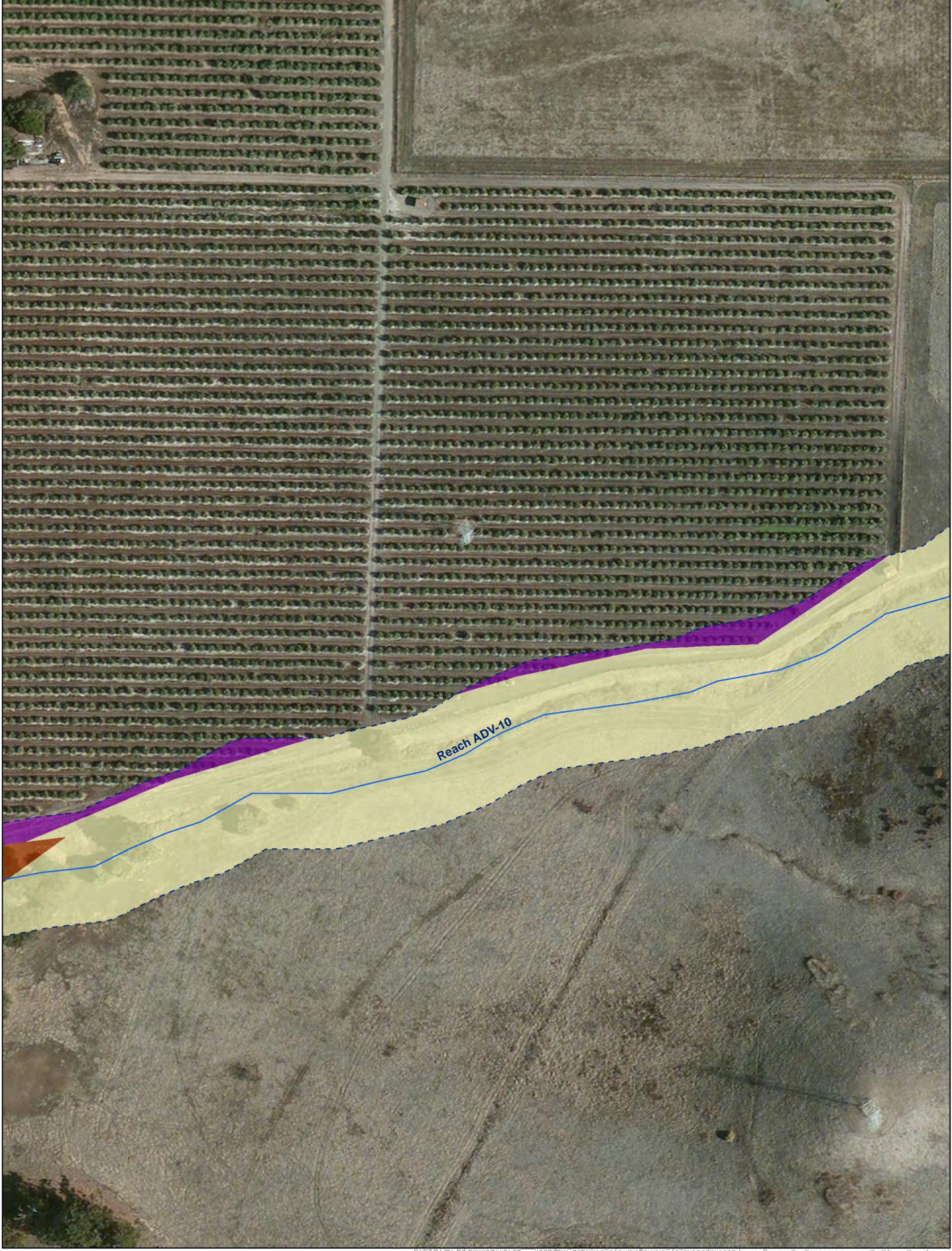


Figure 3-47
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- California Annual Grassland
- Mixed Evergreen Forest / Oak Woodland
- Mixed Riparian Forest and Woodland
- Mixed Willow Riparian Scrub
- Northern Coastal Scrub
- Pond
- Riverine
- Ruderal
- Sycamore Alluvial Woodland
- Urban - Suburban
- Vineyard

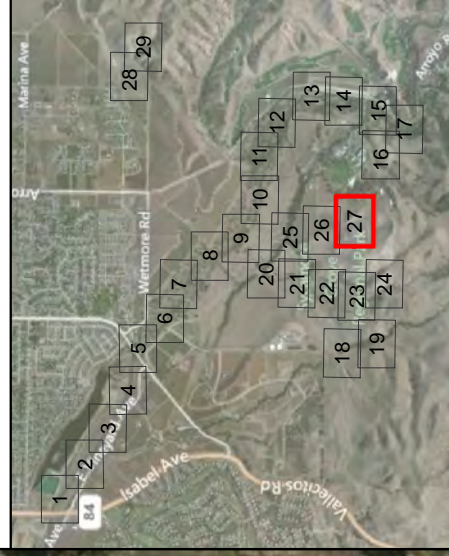
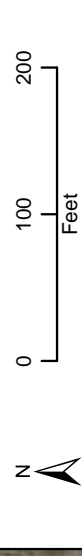


Figure 3-48
Arroyo Del Valle
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- California Annual Grassland
- Mixed Evergreen Forest / Oak Woodland
- Mixed Riparian Forest and Woodland
- Mixed Willow Riparian Scrub
- Northern Coastal Scrub
- Pond
- Riverine
- Ruderal
- Sycamore Alluvial Woodland
- Urban - Suburban
- Vineyard

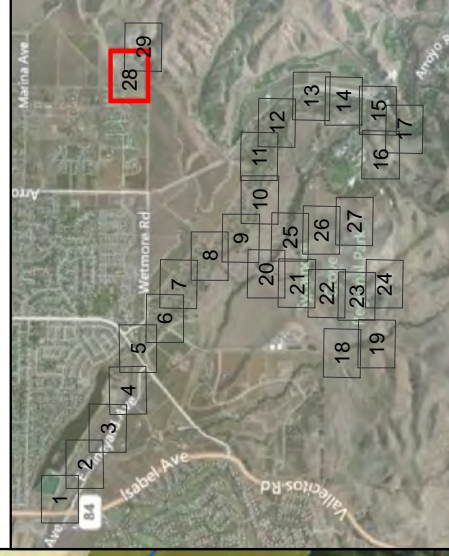
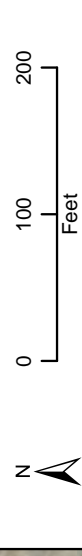






Figure 3-49
Arroyo Del Valle
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-  Stream with Reach ID
-  Reach Break
-  75-foot Stream Buffer
-  Storm Drain Outfall (SDO) Impact Area

Land Cover

-  California Annual Grassland
-  Mixed Evergreen Forest / Oak Woodland
-  Mixed Riparian Forest and Woodland
-  Mixed Willow Riparian Scrub
-  Northern Coastal Scrub
-  Pond
-  Riverine
-  Ruderal
-  Sycamore Alluvial Woodland
-  Urban - Suburban
-  Vineyard

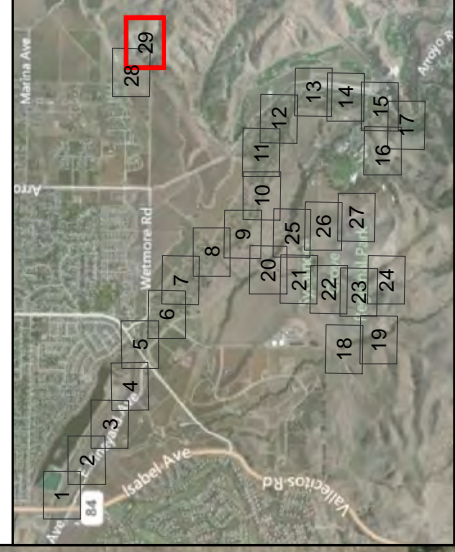


Figure 3-50
Arroyo Del Valle
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- Alkali Meadow and Scalds
- Alkali Wetland
- California Annual Grassland
- Cropland
- Golf Course / Urban Park
- Mixed Riparian Forest and Woodland
- Mixed Willow Riparian Scrub
- Perennial Freshwater Marsh
- Pond
- Riverine
- Ruderal
- Rural - Residential
- Seasonal Wetland
- Urban - Suburban
- Valley Sink Scrub

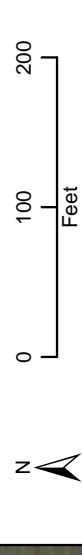


Figure 3-81
Arroyo Las Positas
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- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- Alkali Meadow and Scalds
- Alkali Wetland
- California Annual Grassland
- Cropland
- Golf Course / Urban Park
- Mixed Riparian Forest and Woodland
- Mixed Willow Riparian Scrub
- Perennial Freshwater Marsh
- Pond
- Riverine
- Ruderal
- Rural - Residential
- Seasonal Wetland
- Urban - Suburban
- Valley Sink Scrub

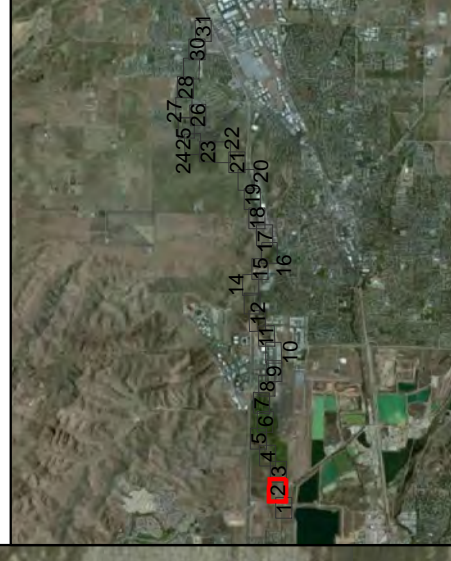
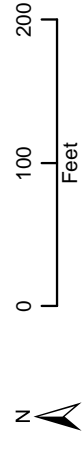


Figure 3-80
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- Alkali Meadow and Scalds
- Alkali Wetland
- California Annual Grassland
- Cropland
- Golf Course / Urban Park
- Mixed Riparian Forest and Woodland
- Mixed Willow Riparian Scrub
- Perennial Freshwater Marsh
- Pond
- Riverine
- Ruderal
- Rural - Residential
- Seasonal Wetland
- Urban - Suburban
- Valley Sink Scrub

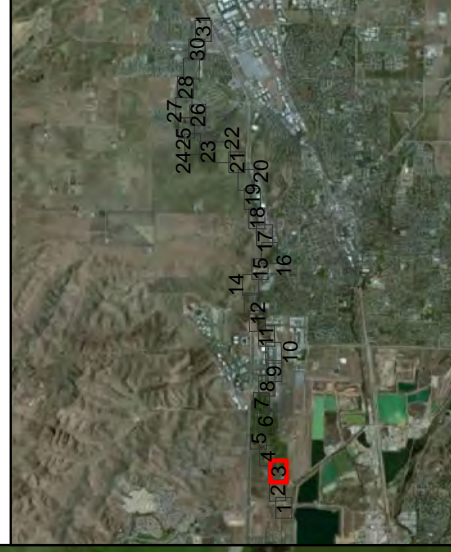
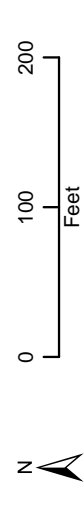


Figure 3-79
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

- Land Cover**
- Alkali Meadow and Scalds
 - Alkali Wetland
 - California Annual Grassland
 - Cropland
 - Golf Course / Urban Park
 - Mixed Riparian Forest and Woodland
 - Mixed Willow Riparian Scrub
 - Perennial Freshwater Marsh
 - Pond
 - Riverine
 - Ruderal
 - Rural - Residential
 - Seasonal Wetland
 - Urban - Suburban
 - Valley Sink Scrub

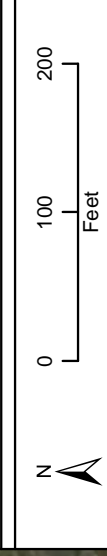


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- - - Reach Break
- - - 75-foot Stream Buffer
- Ⓜ Storm Drain Outfall (SDO) Impact Area

Land Cover

	Alkali Meadow and Scalds
	Alkali Wetland
	California Annual Grassland
	Cropland
	Golf Course / Urban Park
	Mixed Riparian Forest and Woodland
	Mixed Willow Riparian Scrub
	Perennial Freshwater Marsh
	Pond
	Riverine
	Ruderal
	Rural - Residential
	Seasonal Wetland
	Urban - Suburban
	Valley Sink Scrub

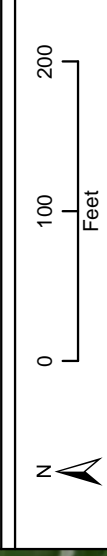


Figure 3-77
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- Alkali Meadow and Scalds
 - Alkali Wetland
 - California Annual Grassland
 - Cropland
 - Golf Course / Urban Park
 - Mixed Riparian Forest and Woodland
 - Mixed Willow Riparian Scrub
 - Perennial Freshwater Marsh
 - Pond
 - Riverine
 - Ruderal
 - Rural - Residential
 - Seasonal Wetland
 - Urban - Suburban
 - Valley Sink Scrub

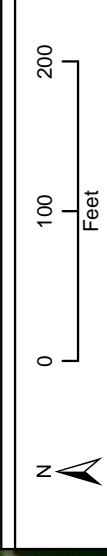


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- Alkali Meadow and Scalds
 - Alkali Wetland
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 - Perennial Freshwater Marsh
 - Pond
 - Riverine
 - Ruderal
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 - Seasonal Wetland
 - Urban - Suburban
 - Valley Sink Scrub

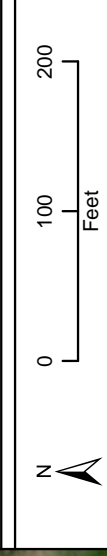


Figure 3-75
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- - - Reach Break
- - - 75-foot Stream Buffer
- ⊕ Storm Drain Outfall (SDO) Impact Area

Land Cover

- Alkali Meadow and Scalds
- Alkali Wetland
- California Annual Grassland
- Cropland
- Golf Course / Urban Park
- Mixed Riparian Forest and Woodland
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- Perennial Freshwater Marsh
- Pond
- Riverine
- Ruderal
- Rural - Residential
- Seasonal Wetland
- Urban - Suburban
- Valley Sink Scrub

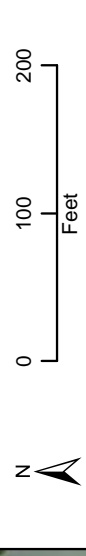


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - - - Reach Break
 - - - 75-foot Stream Buffer
 - Ⓢ Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- Alkali Meadow and Scalds
 - Alkali Wetland
 - California Annual Grassland
 - Cropland
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 - Perennial Freshwater Marsh
 - Pond
 - Riverine
 - Ruderal
 - Rural - Residential
 - Seasonal Wetland
 - Urban - Suburban
 - Valley Sink Scrub

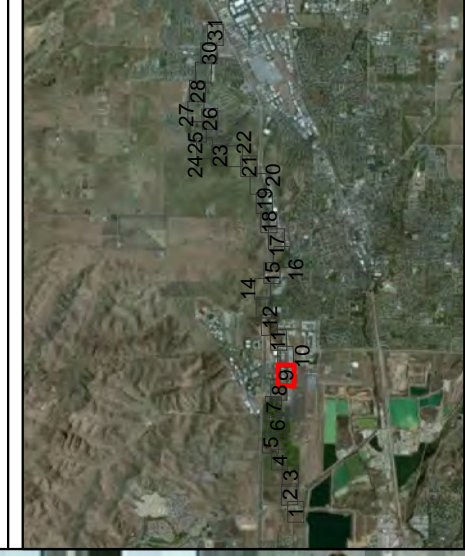
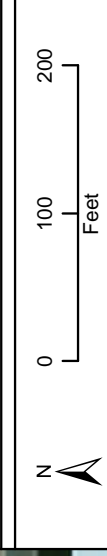


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See Figure 3-126
Collier Canyon Creek
Reach CCC-1

**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- Alkali Meadow and Scalds
 - Alkali Wetland
 - California Annual Grassland
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 - Perennial Freshwater Marsh
 - Pond
 - Riverine
 - Ruderal
 - Rural - Residential
 - Seasonal Wetland
 - Urban - Suburban
 - Valley Sink Scrub

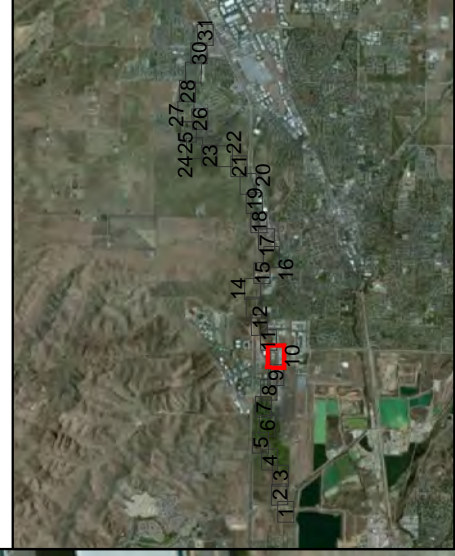
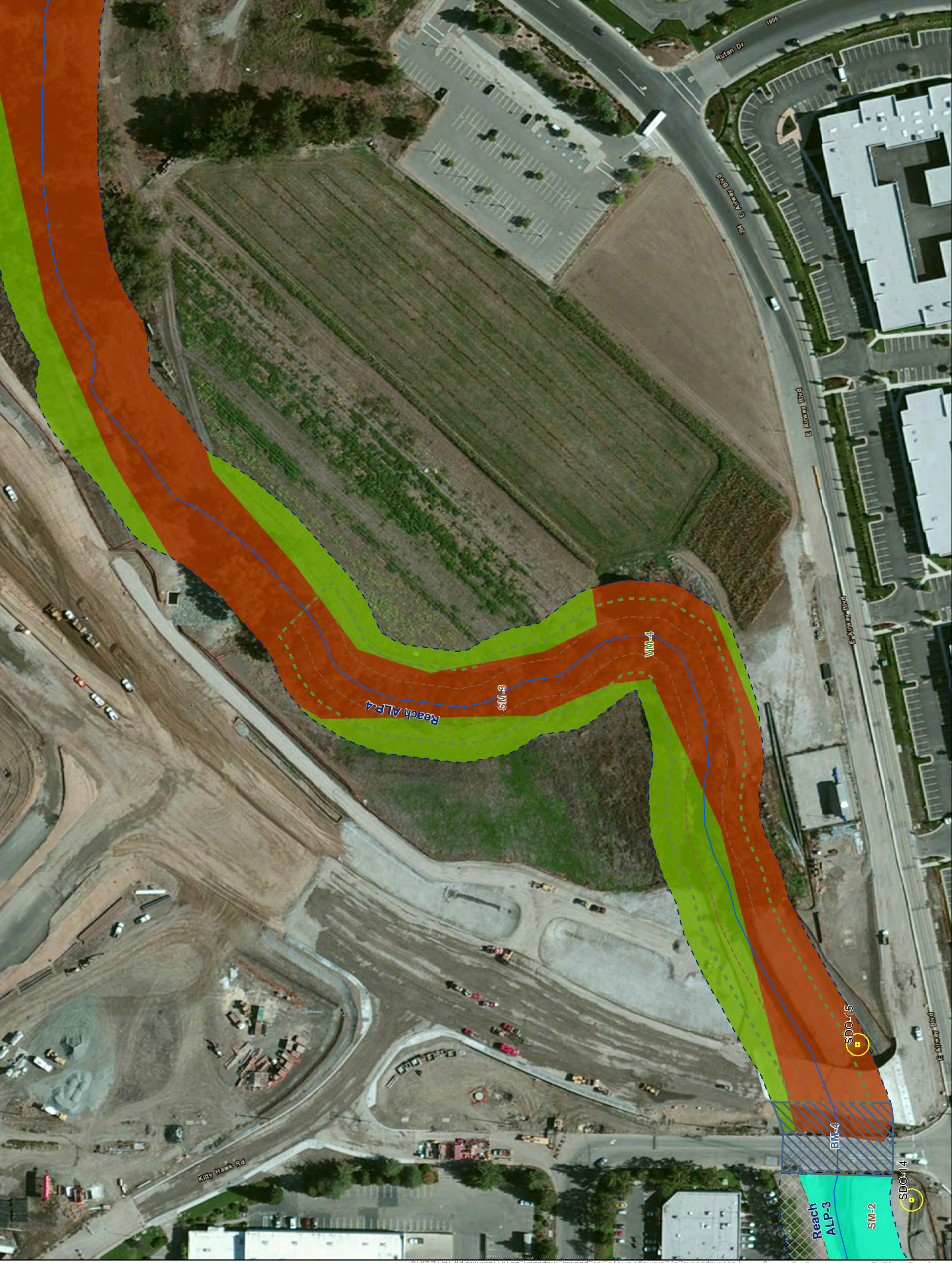


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- - - Reach Break
- - - 75-foot Stream Buffer
- ⊙ Storm Drain Outfall (SDO) Impact Area

- Land Cover**
- Alkali Meadow and Scalds
 - Alkali Wetland
 - California Annual Grassland
 - Cropland
 - Golf Course / Urban Park
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 - Mixed Willow Riparian Scrub
 - Perennial Freshwater Marsh
 - Pond
 - Riverine
 - Ruderal
 - Rural - Residential
 - Seasonal Wetland
 - Urban - Suburban
 - Valley Sink Scrub

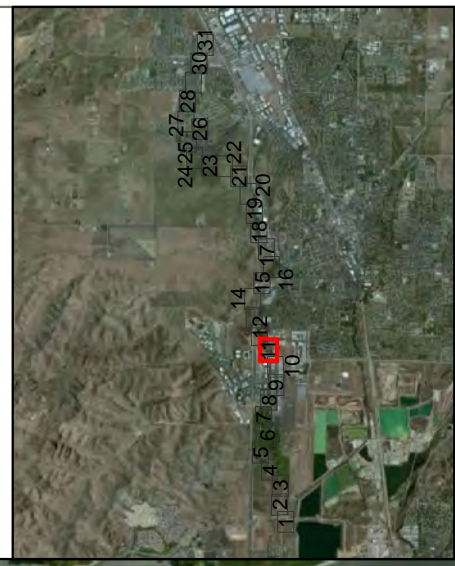
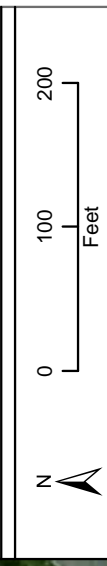


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- Alkali Meadow and Scalds
- Alkali Wetland
- California Annual Grassland
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- Golf Course / Urban Park
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- Perennial Freshwater Marsh
- Pond
- Riverine
- Ruderal
- Rural - Residential
- Seasonal Wetland
- Urban - Suburban
- Valley Sink Scrub

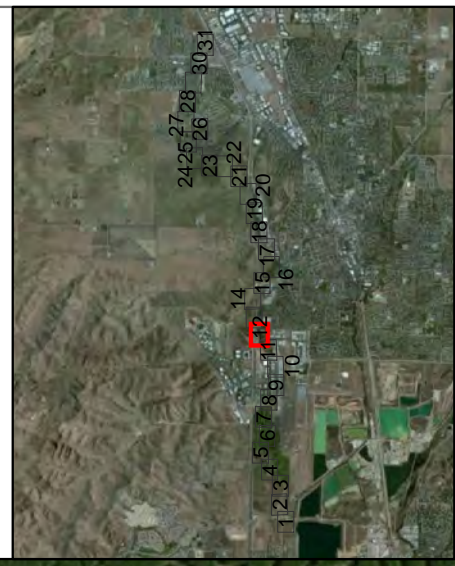
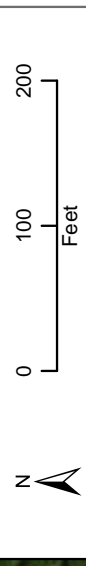


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See Figure 3-86
 Arroyo Las Positas Tributary
 Reach ALPT-1

**City of Livermore
 Stream Maintenance Program**



- Stream with Reach ID
 - - - Reach Break
 - - - 75-foot Stream Buffer
 - ⊙ Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- Alkali Meadow and Scalds
 - Alkali Wetland
 - California Annual Grassland
 - Cropland
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 - Pond
 - Riverine
 - Ruderal
 - Rural - Residential
 - Seasonal Wetland
 - Urban - Suburban
 - Valley Sink Scrub

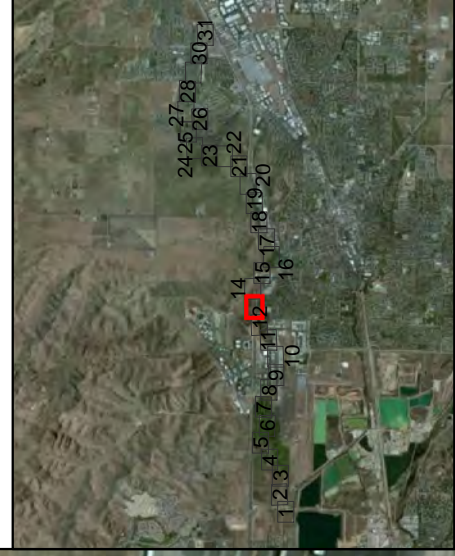
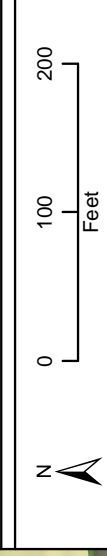


Figure 3-69
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- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

- Land Cover**
- Alkali Meadow and Scalds
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 - Valley Sink Scrub

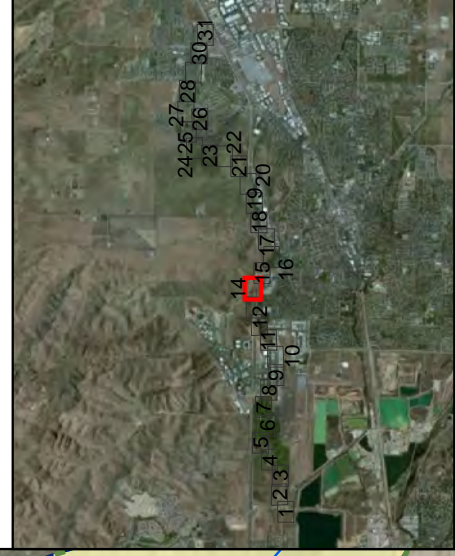
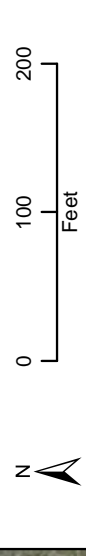


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- Alkali Meadow and Scalds
- Alkali Wetland
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- Seasonal Wetland
- Urban - Suburban
- Valley Sink Scrub

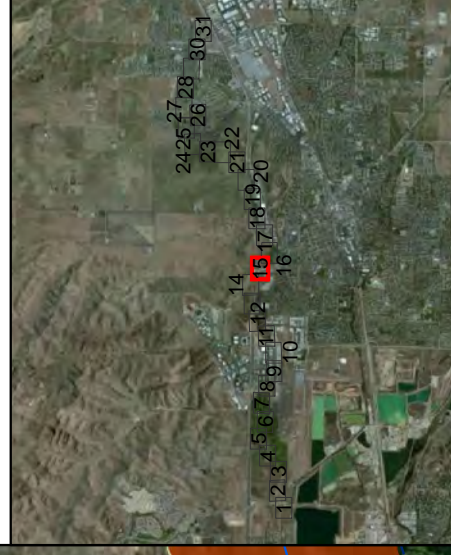
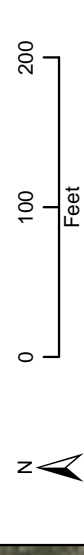


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- Alkali Meadow and Scalds
- Alkali Wetland
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- Mixed Willow Riparian Scrub
- Perennial Freshwater Marsh
- Pond
- Riverine
- Ruderal
- Rural - Residential
- Seasonal Wetland
- Urban - Suburban
- Valley Sink Scrub

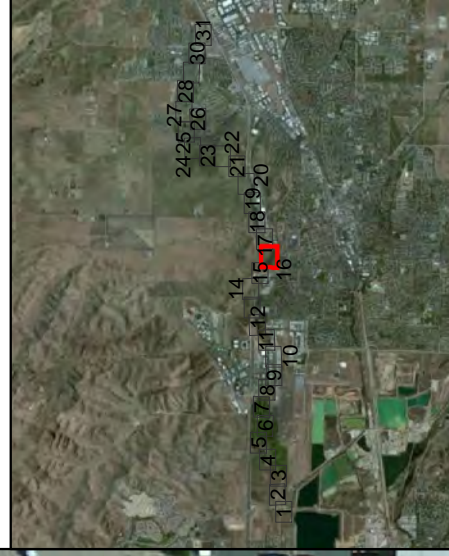
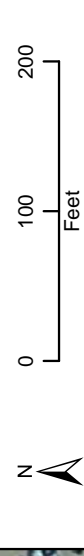
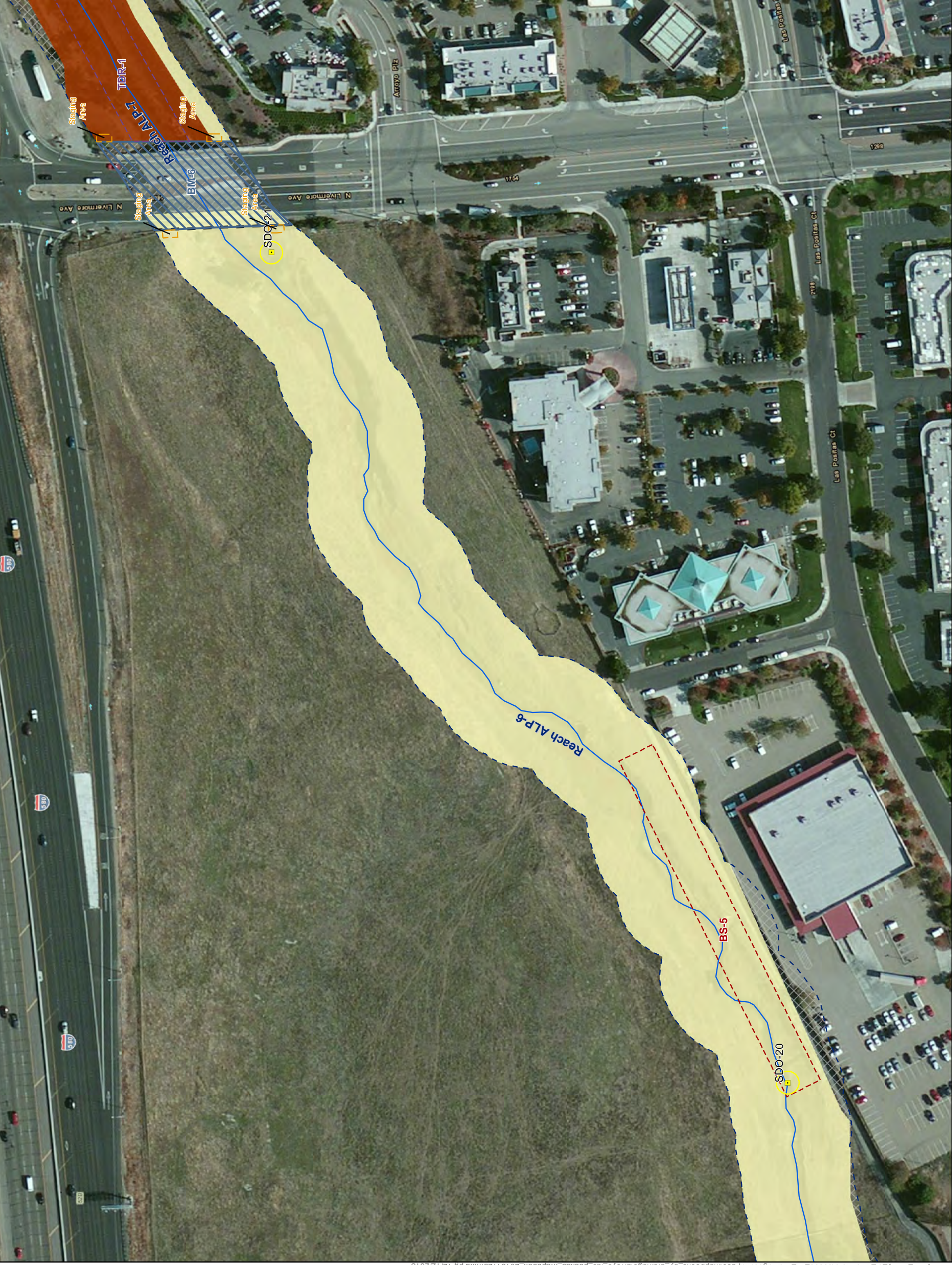


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- Alkali Meadow and Scalds
 - Alkali Wetland
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 - Urban - Suburban
 - Valley Sink Scrub

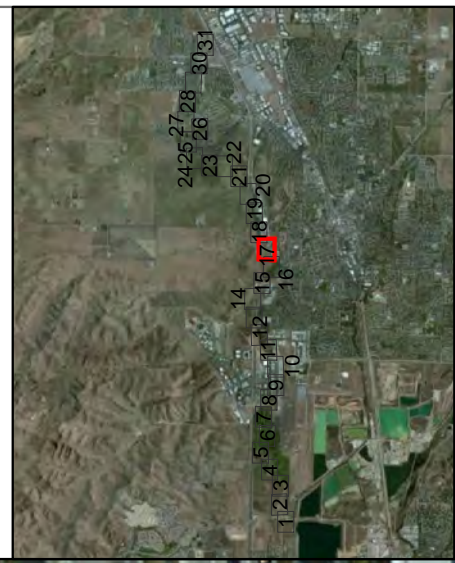
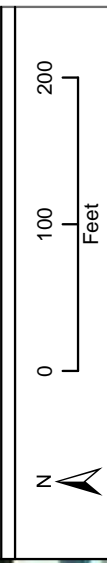
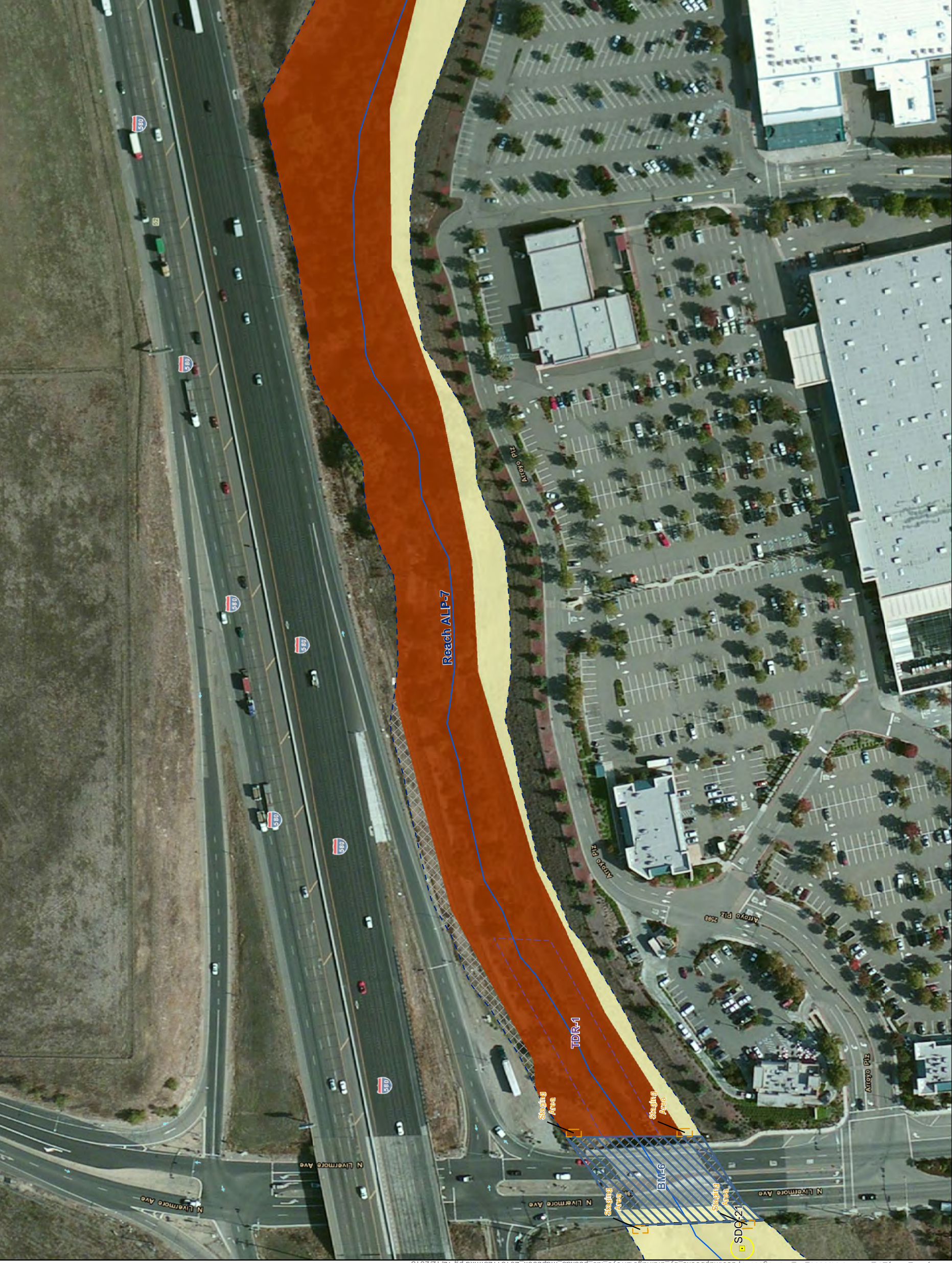


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- Alkali Meadow and Scalds
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 - Riverine
 - Ruderal
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 - Seasonal Wetland
 - Urban - Suburban
 - Valley Sink Scrub

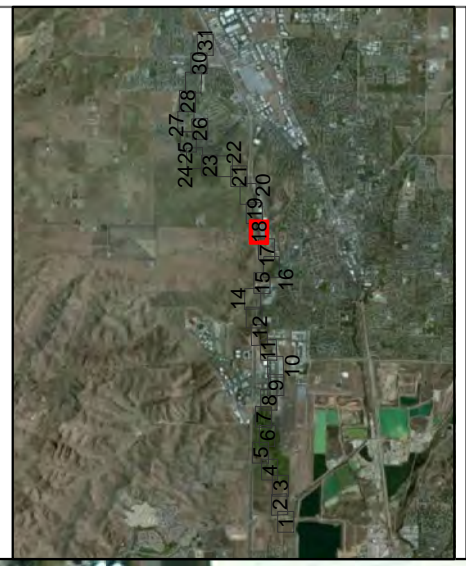
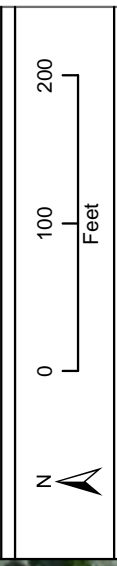


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

- Land Cover**
- Alkali Meadow and Scalds
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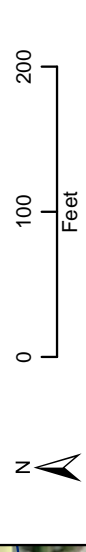


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- Alkali Meadow and Scalds
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- Riverine
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- Urban - Suburban
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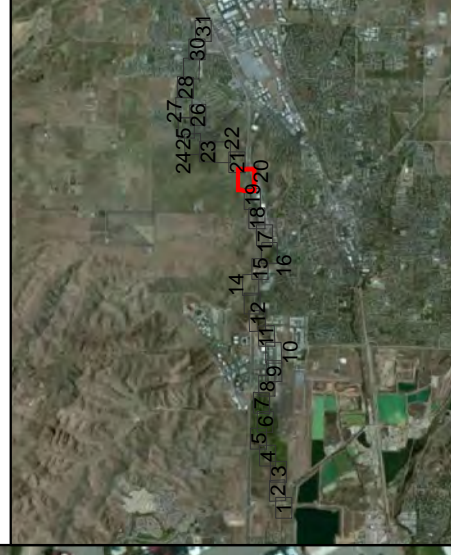
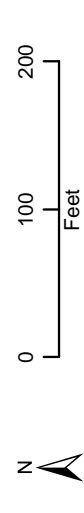


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- Alkali Meadow and Scalds
- Alkali Wetland
- California Annual Grassland
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- Riverine
- Ruderal
- Rural - Residential
- Seasonal Wetland
- Urban - Suburban
- Valley Sink Scrub

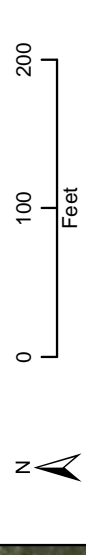


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

- Land Cover**
- Alkali Meadow and Scalds
 - Alkali Wetland
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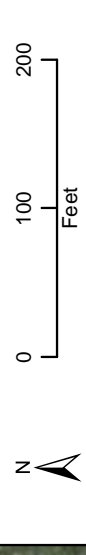


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

- Land Cover**
- Alkali Meadow and Scalds
 - Alkali Wetland
 - California Annual Grassland
 - Cropland
 - Golf Course / Urban Park
 - Mixed Riparian Forest and Woodland
 - Mixed Willow Riparian Scrub
 - Perennial Freshwater Marsh
 - Pond
 - Riverine
 - Ruderal
 - Rural - Residential
 - Seasonal Wetland
 - Urban - Suburban
 - Valley Sink Scrub

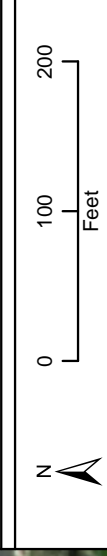


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- Alkali Meadow and Scalds
 - Alkali Wetland
 - California Annual Grassland
 - Cropland
 - Golf Course / Urban Park
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 - Perennial Freshwater Marsh
 - Pond
 - Riverine
 - Ruderal
 - Rural - Residential
 - Seasonal Wetland
 - Urban - Suburban
 - Valley Sink Scrub

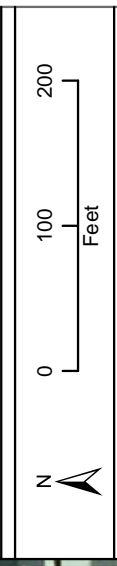


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- Alkali Meadow and Scalds
 - Alkali Wetland
 - California Annual Grassland
 - Cropland
 - Golf Course / Urban Park
 - Mixed Riparian Forest and Woodland
 - Mixed Willow Riparian Scrub
 - Perennial Freshwater Marsh
 - Pond
 - Riverine
 - Ruderal
 - Rural - Residential
 - Seasonal Wetland
 - Urban - Suburban
 - Valley Sink Scrub

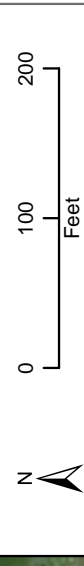
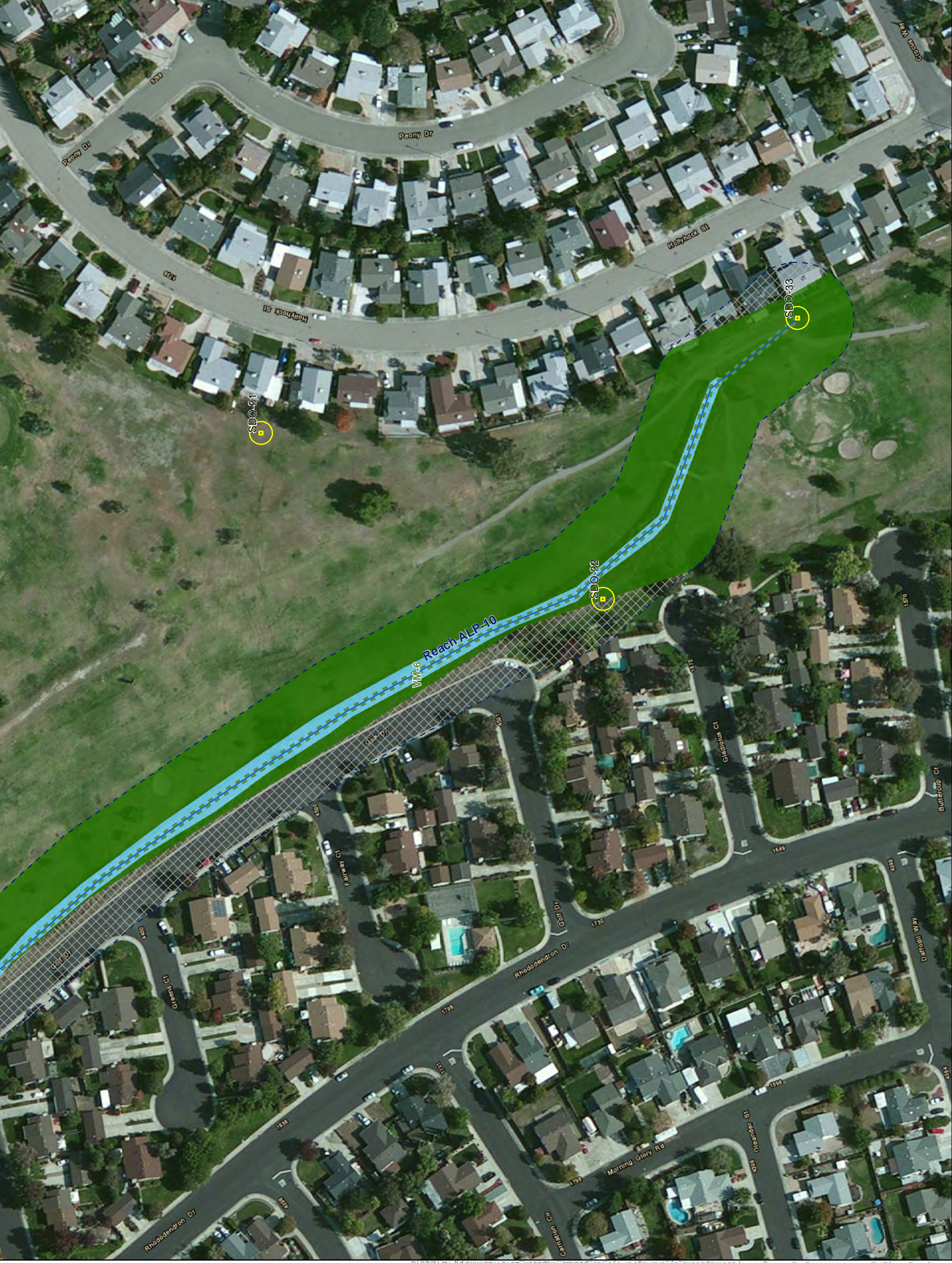


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- - - Reach Break
- - - 75-foot Stream Buffer
- ⊡ Storm Drain Outfall (SDO) Impact Area

- Land Cover**
- Alkali Meadow and Scalds
 - Alkali Wetland
 - California Annual Grassland
 - Cropland
 - Golf Course / Urban Park
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 - Mixed Willow Riparian Scrub
 - Perennial Freshwater Marsh
 - Pond
 - Riverine
 - Ruderal
 - Rural - Residential
 - Seasonal Wetland
 - Urban - Suburban
 - Valley Sink Scrub

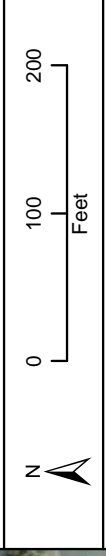


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- Alkali Meadow and Scalds
- Alkali Wetland
- California Annual Grassland
- Cropland
- Golf Course / Urban Park
- Mixed Riparian Forest and Woodland
- Mixed Willow Riparian Scrub
- Perennial Freshwater Marsh
- Pond
- Riverine
- Ruderal
- Rural - Residential
- Seasonal Wetland
- Urban - Suburban
- Valley Sink Scrub

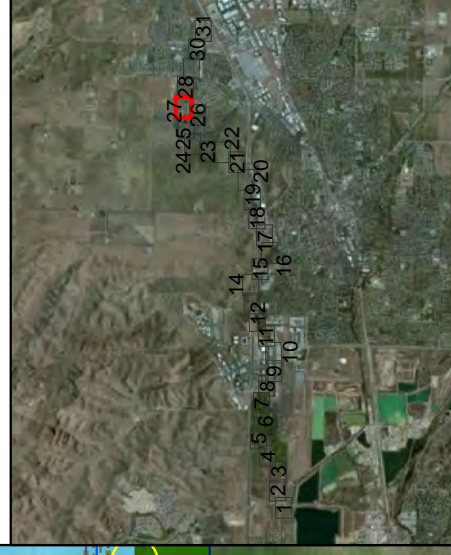
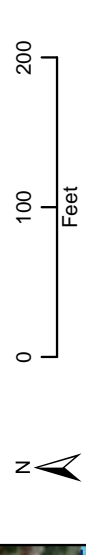


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- Alkali Meadow and Scalds
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- Mixed Willow Riparian Scrub
- Perennial Freshwater Marsh
- Pond
- Riverine
- Ruderal
- Rural - Residential
- Seasonal Wetland
- Urban - Suburban
- Valley Sink Scrub

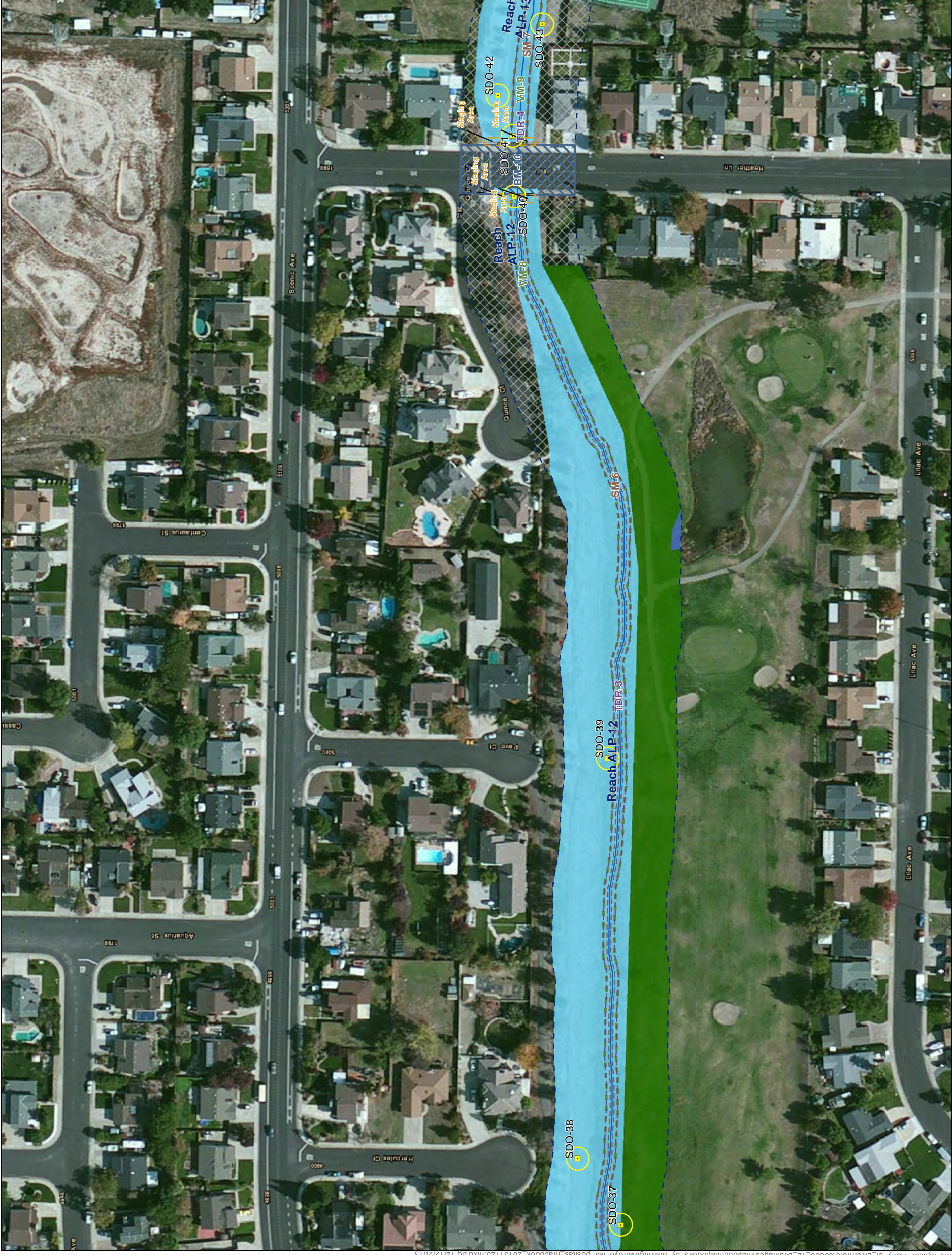
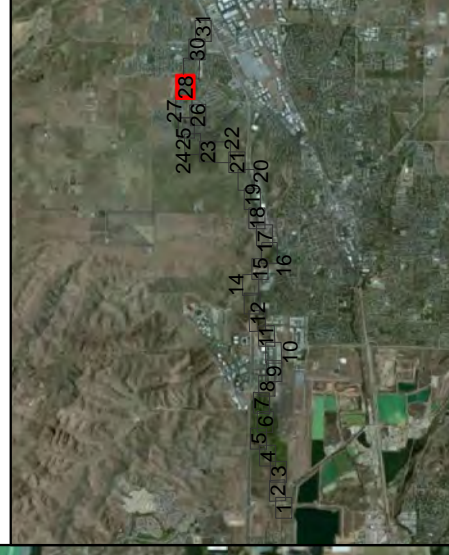
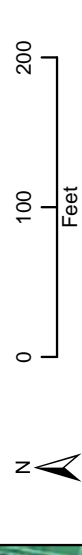
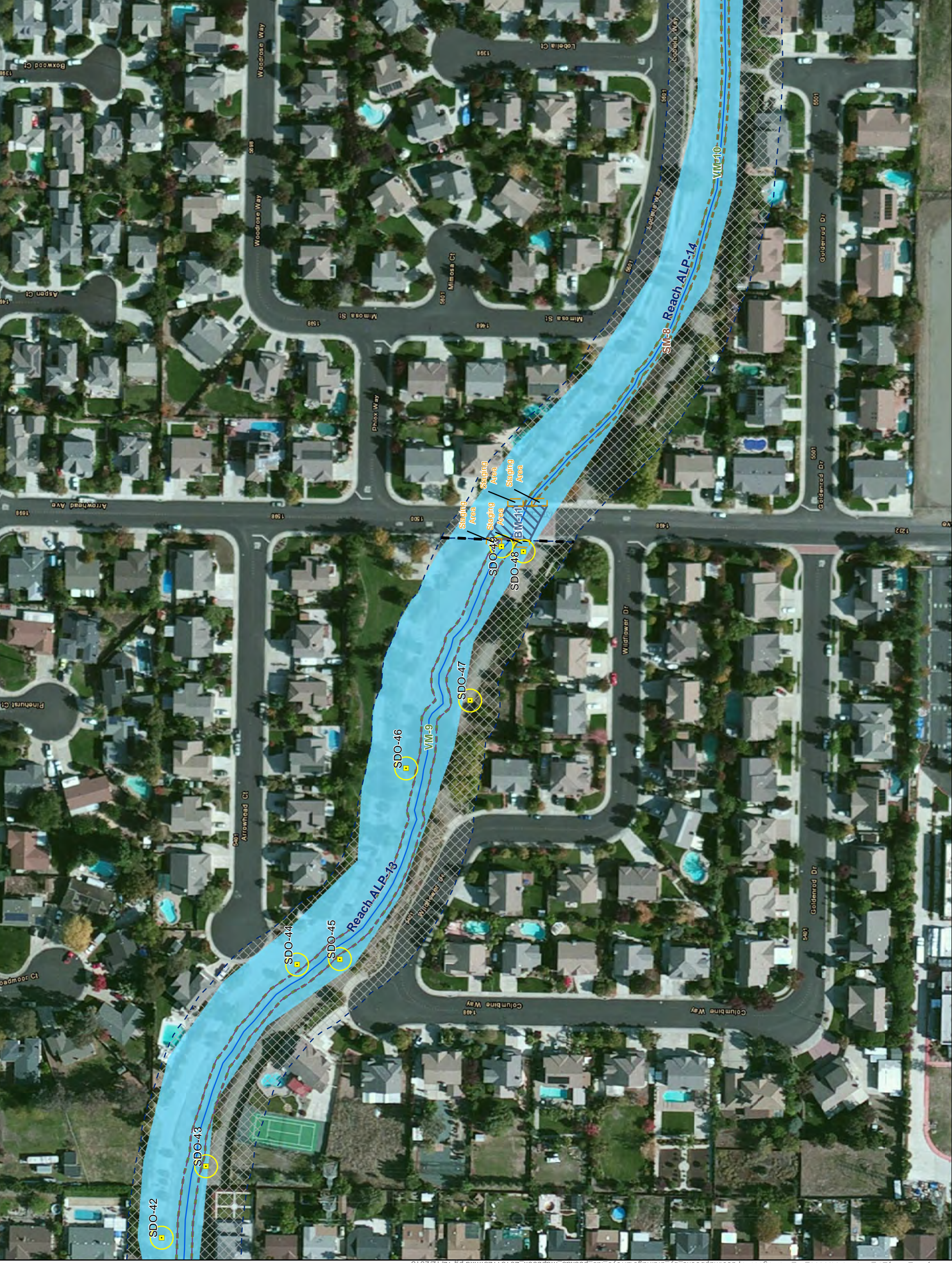


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

- Land Cover**
- Alkali Meadow and Scalds
 - Alkali Wetland
 - California Annual Grassland
 - Cropland
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 - Mixed Willow Riparian Scrub
 - Perennial Freshwater Marsh
 - Pond
 - Riverine
 - Ruderal
 - Rural - Residential
 - Seasonal Wetland
 - Urban - Suburban
 - Valley Sink Scrub

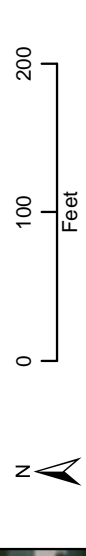


Figure 3-53
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- Alkali Meadow and Scalds
- Alkali Wetland
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- Cropland
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- Mixed Willow Riparian Scrub
- Perennial Freshwater Marsh
- Pond
- Riverine
- Ruderal
- Rural - Residential
- Seasonal Wetland
- Urban - Suburban
- Valley Sink Scrub

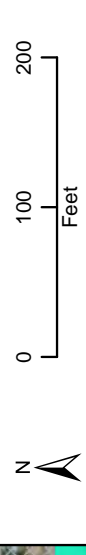
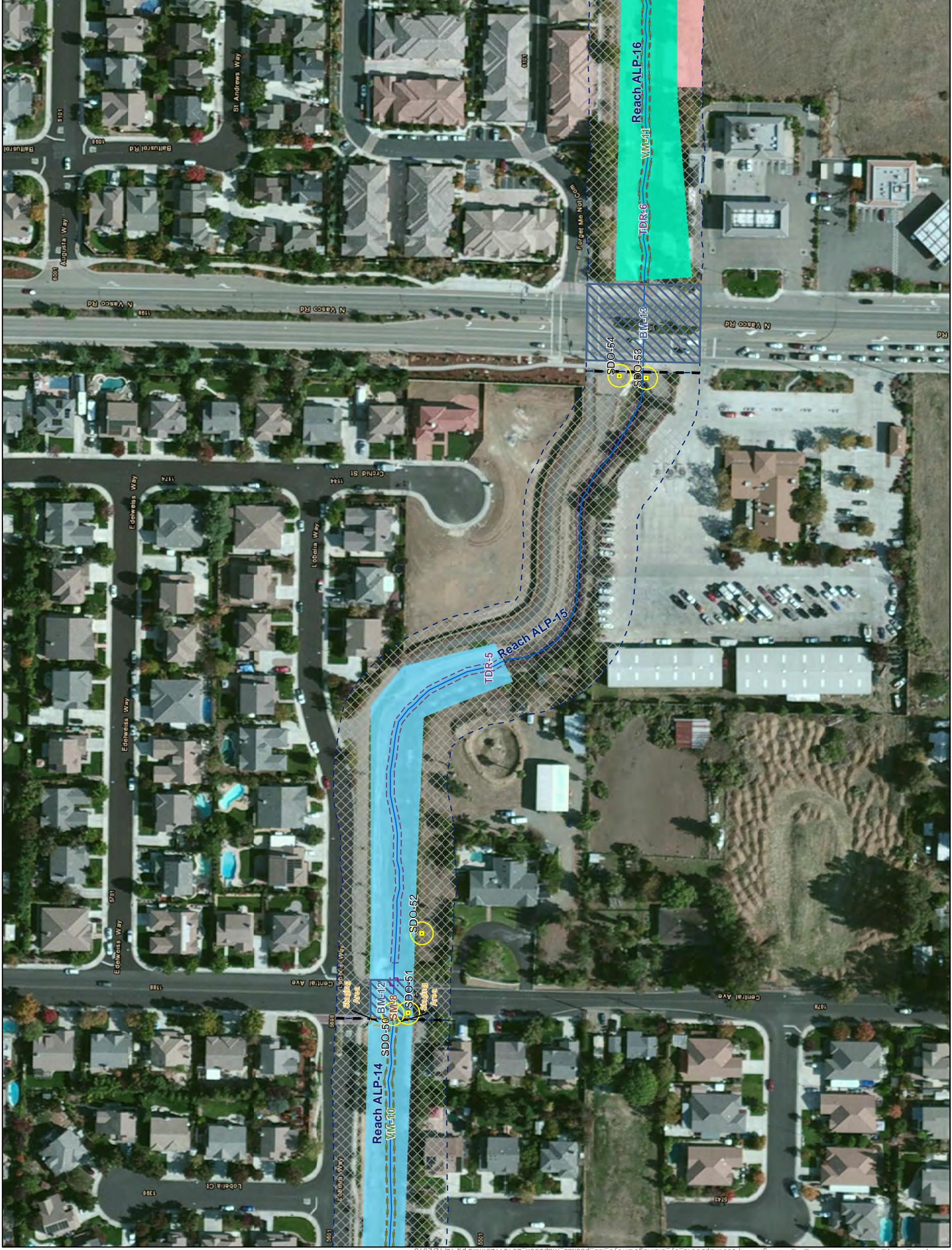
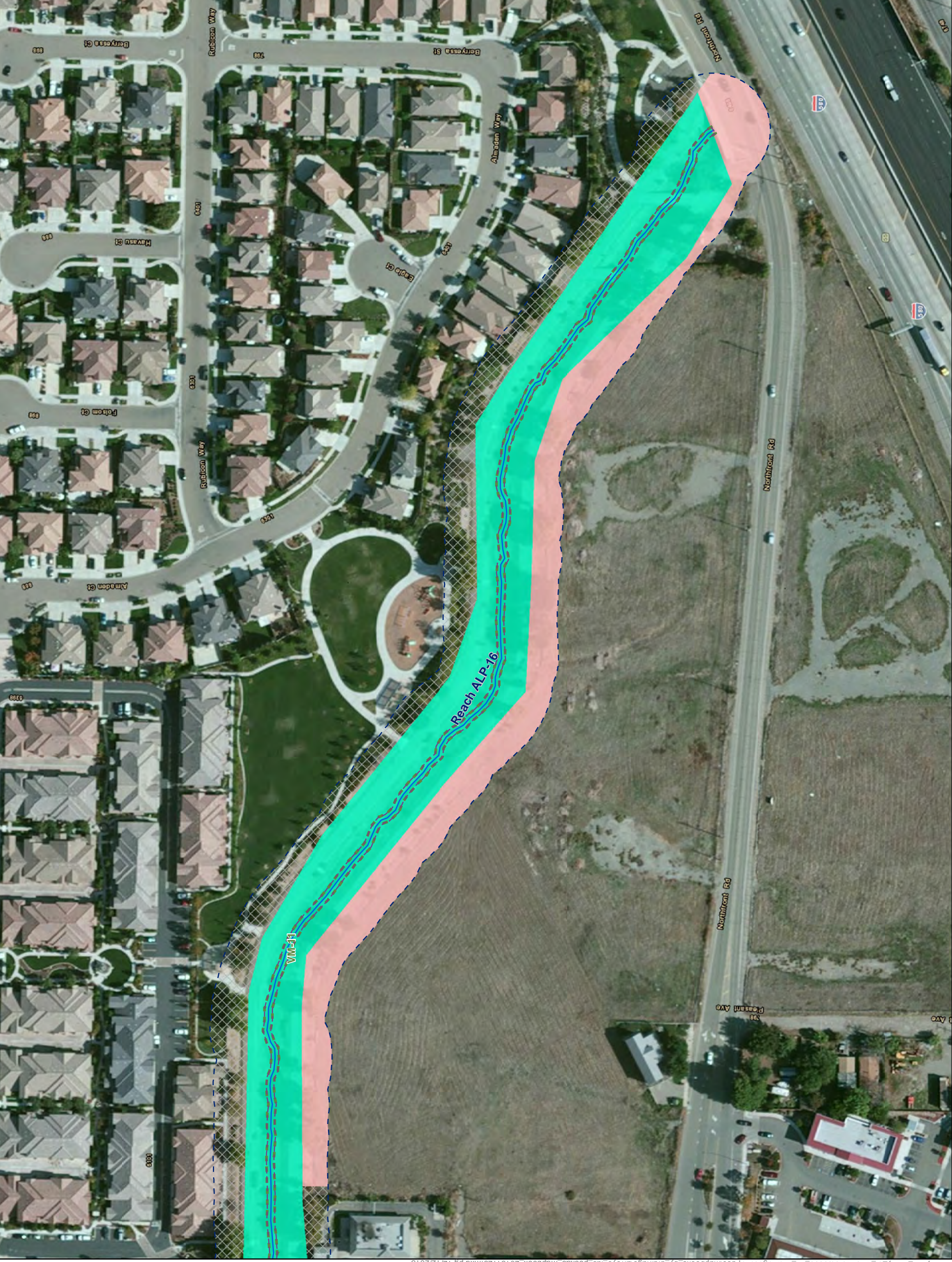


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

- Land Cover**
- Alkali Meadow and Scalds
 - Alkali Wetland
 - California Annual Grassland
 - Cropland
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 - Mixed Willow Riparian Scrub
 - Perennial Freshwater Marsh
 - Pond
 - Riverine
 - Ruderal
 - Rural - Residential
 - Seasonal Wetland
 - Urban - Suburban
 - Valley Sink Scrub

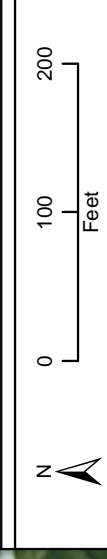


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- California Annual Grassland
 - Cropland
 - Urban - Suburban

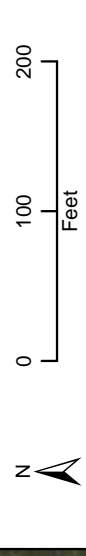


Figure 3-86
Arroyo Las Positas Tributary
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- California Annual Grassland
 - Cropland
 - Urban - Suburban

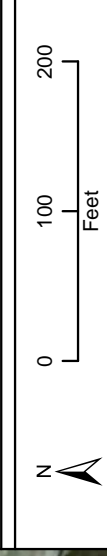


Figure 3-85
Arroyo Las Positas Tributary
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- California Annual Grassland
 - Cropland
 - Urban - Suburban

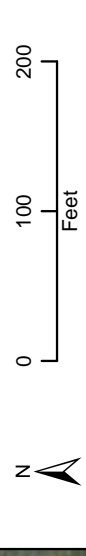


Figure 3-84
Arroyo Las Positas Tributary
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- California Annual Grassland
 - Cropland
 - Urban - Suburban

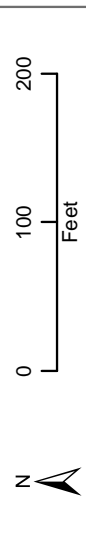


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Arroyo Las Positas Tributary
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- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- California Annual Grassland
 - Cropland
 - Urban - Suburban

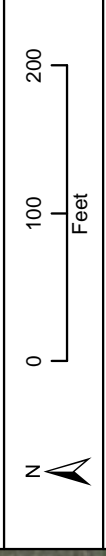


Figure 3-82
Arroyo Las Positas Tributary
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- California Annual Grassland
- Cropland
- Golf Course / Urban Park
- Mixed Riparian Forest and Woodland
- Mixed Willow Riparian Scrub
- Riverine
- Ruderal
- Urban - Suburban
- Vineyard

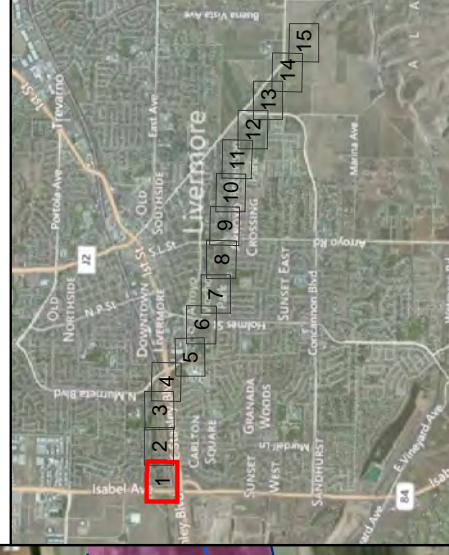
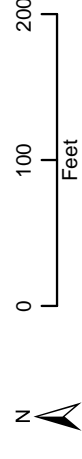
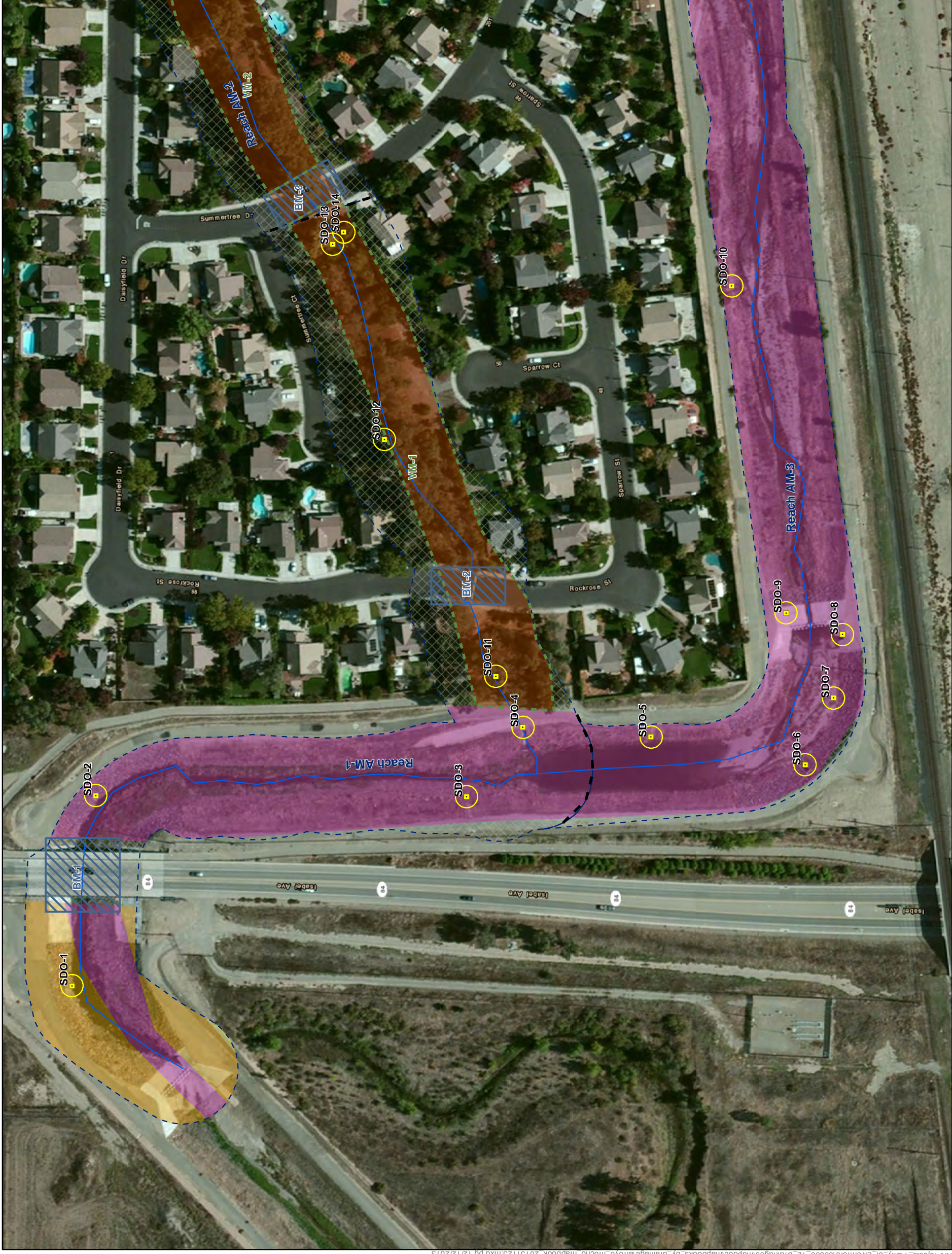
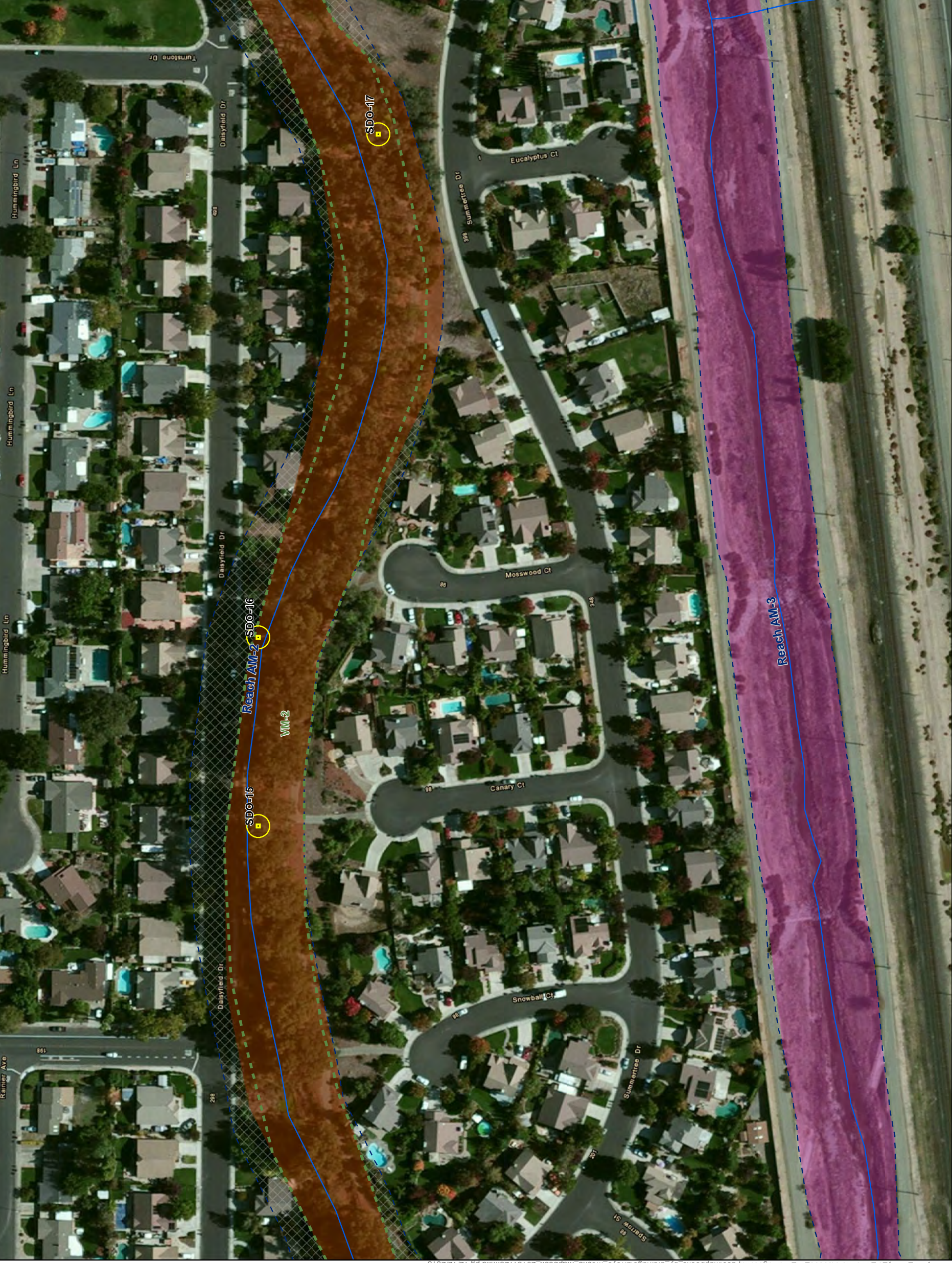


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Arroyo Mocho
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- California Annual Grassland
- Cropland
- Golf Course / Urban Park
- Mixed Riparian Forest and Woodland
- Mixed Willow Riparian Scrub
- Riverine
- Ruderal
- Urban - Suburban
- Vineyard

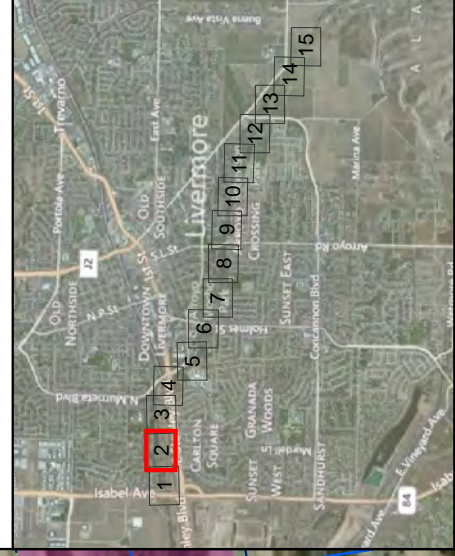
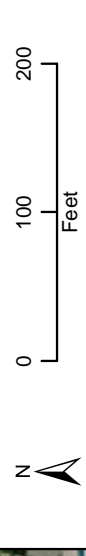


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

- Land Cover**
- California Annual Grassland
 - Cropland
 - Golf Course / Urban Park
 - Mixed Riparian Forest and Woodland
 - Mixed Willow Riparian Scrub
 - Riverine
 - Ruderal
 - Urban - Suburban
 - Vineyard

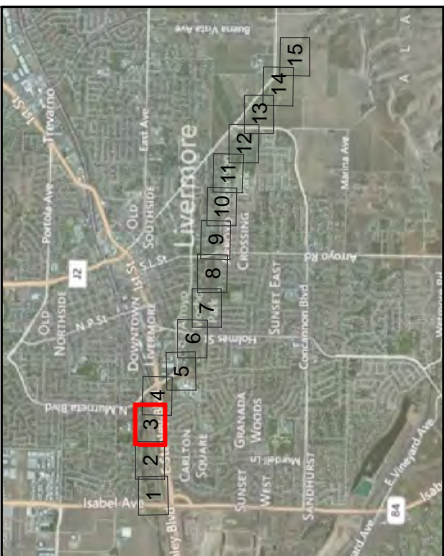
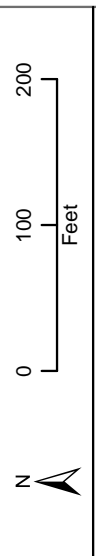


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Arroyo Mocho
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See Figure 3-130
Granada Channel
Reach GC-1

Granada Channel
Granada Channel

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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- California Annual Grassland
- Cropland
- Golf Course / Urban Park
- Mixed Riparian Forest and Woodland
- Mixed Willow Riparian Scrub
- Riverine
- Ruderal
- Urban - Suburban
- Vineyard

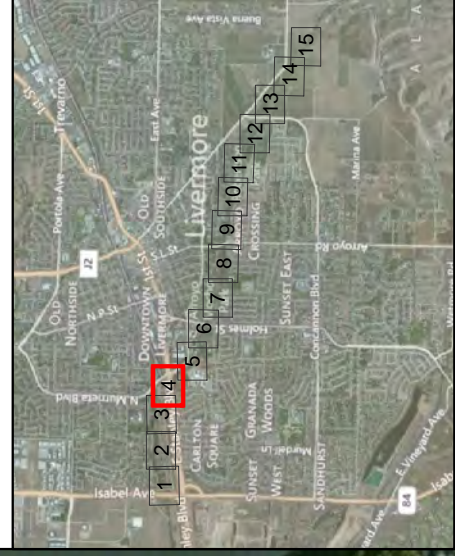
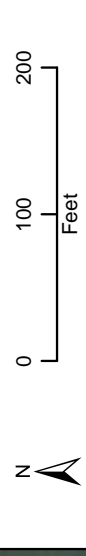
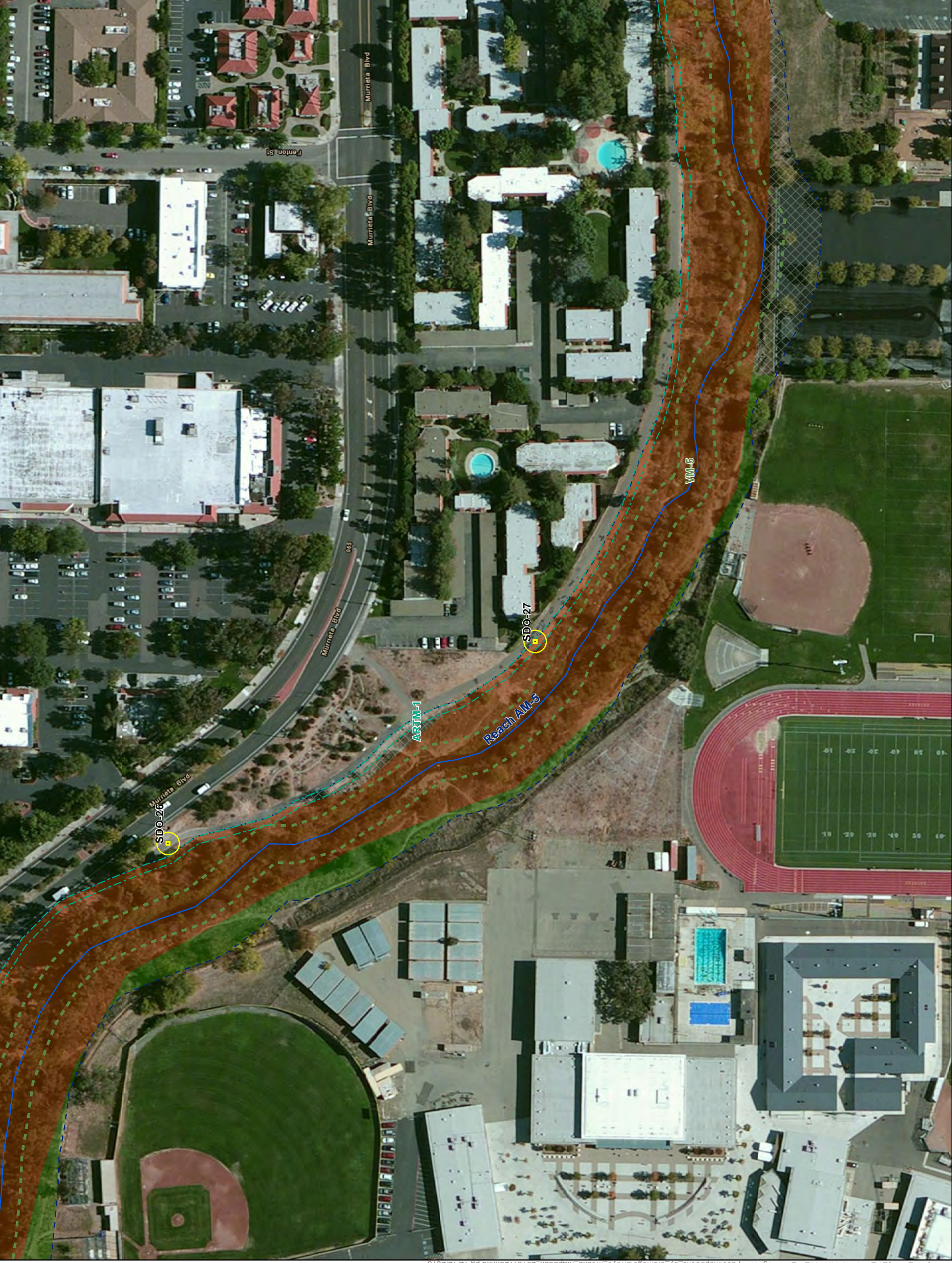


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- California Annual Grassland
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- Vineyard

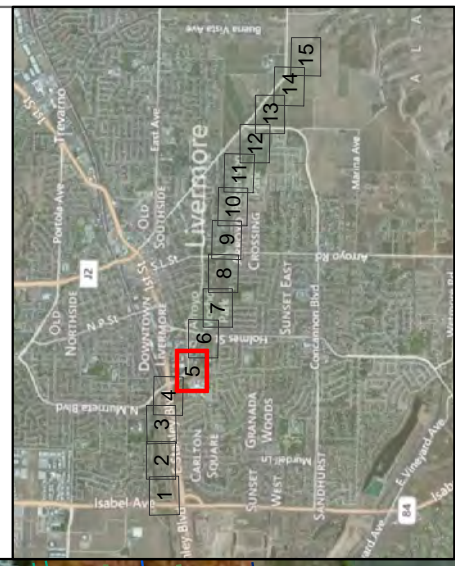
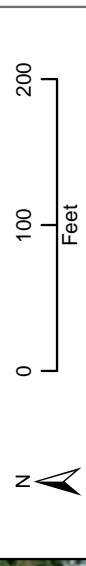
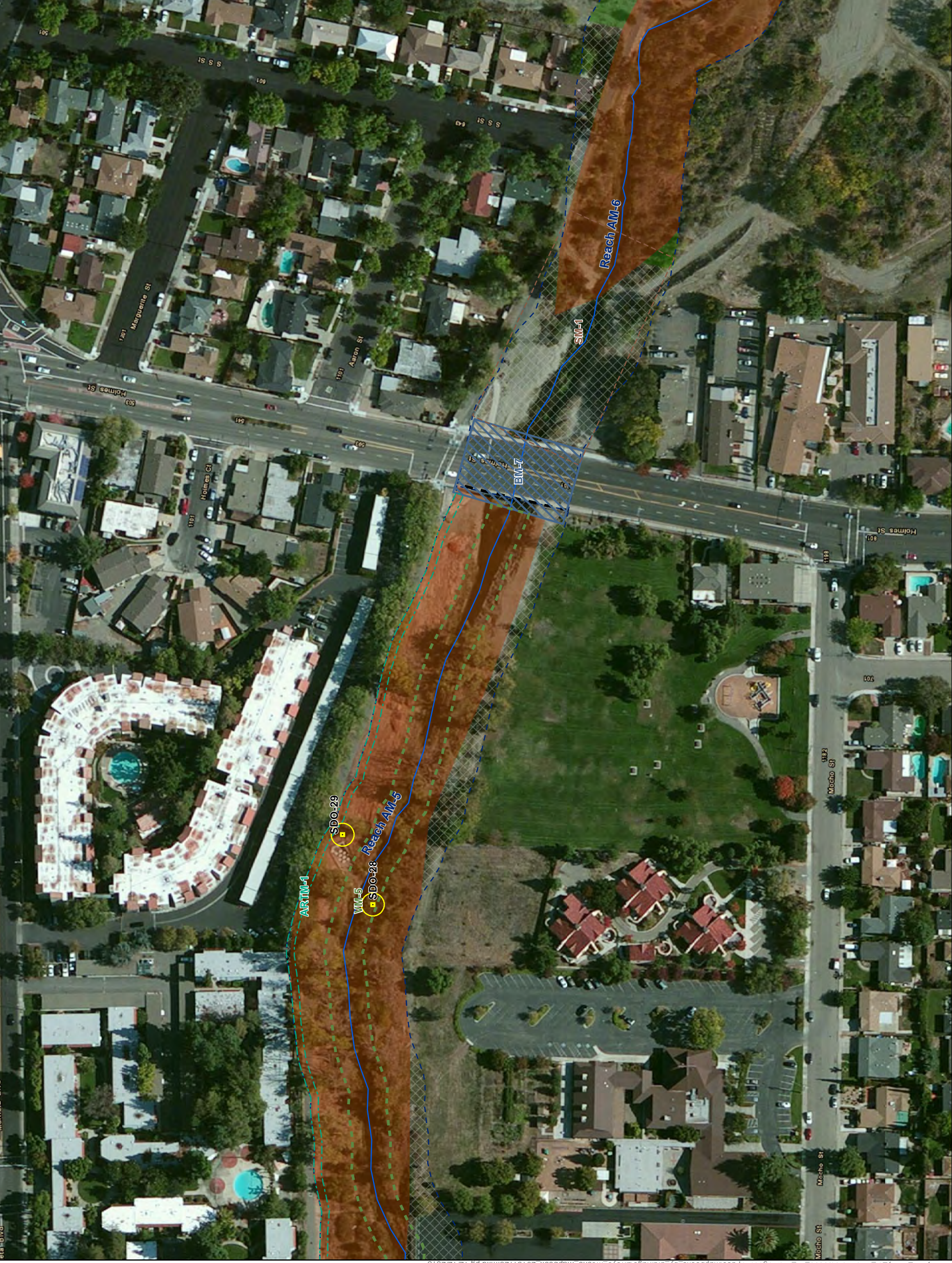


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- California Annual Grassland
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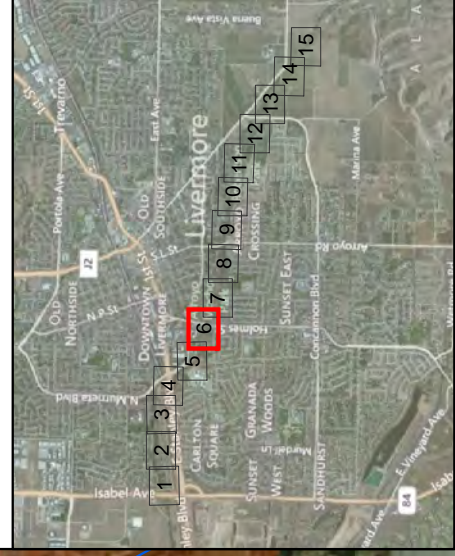
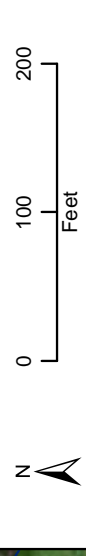


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Arroyo Mocho
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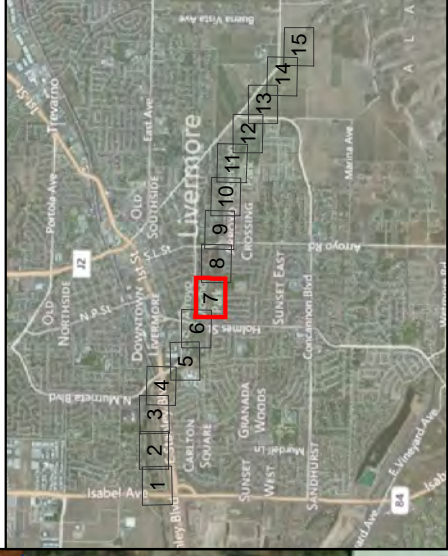
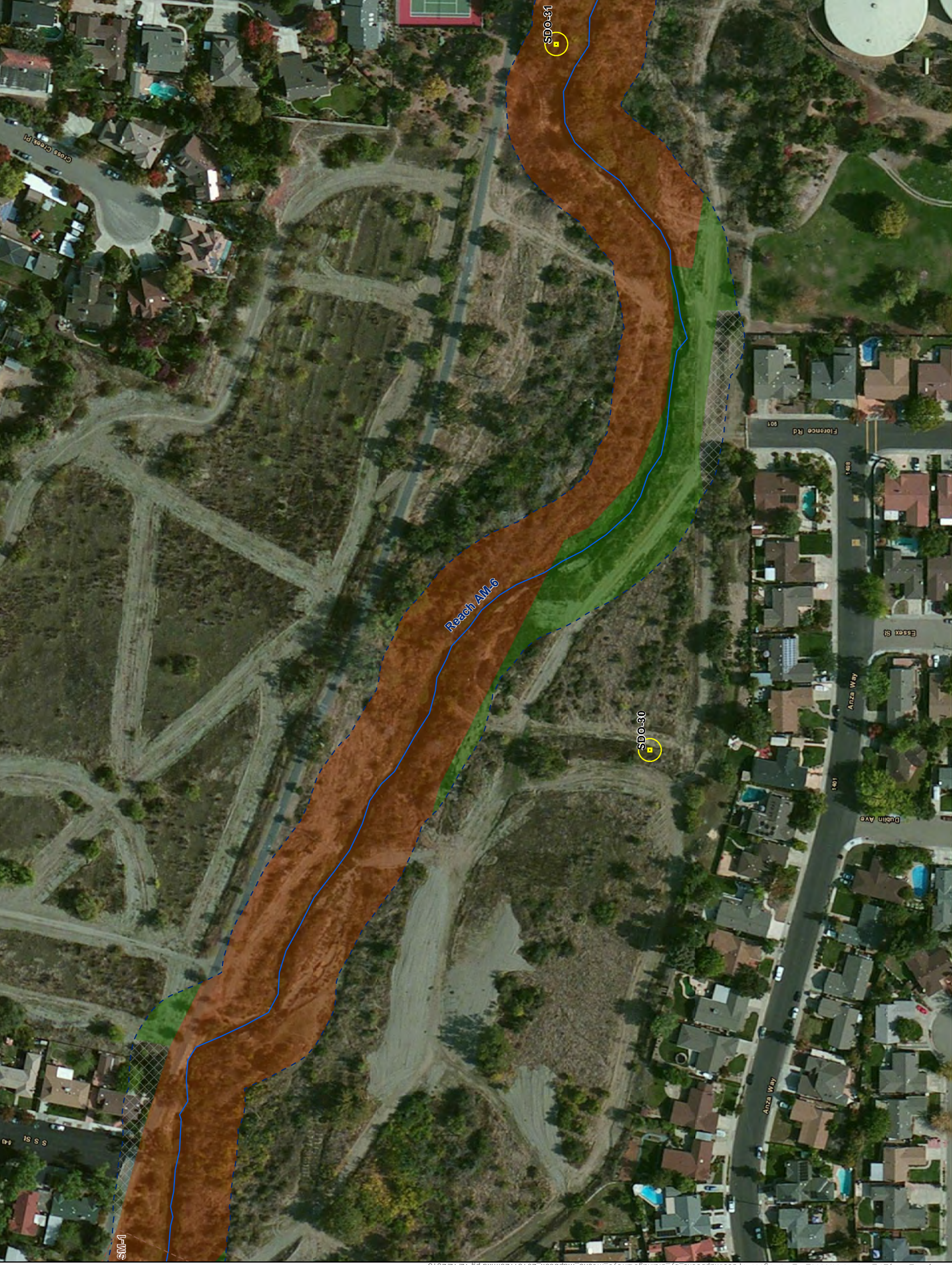


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- California Annual Grassland
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- Mixed Riparian Forest and Woodland
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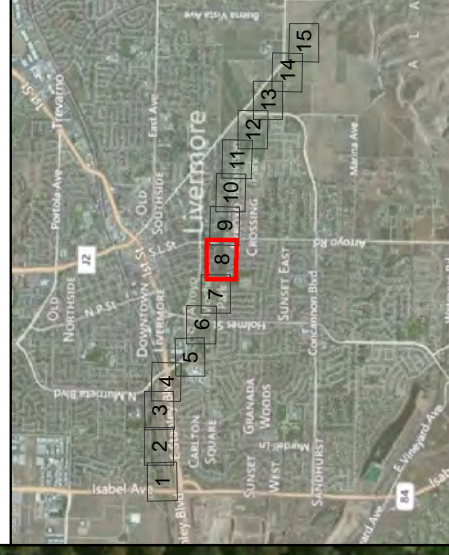
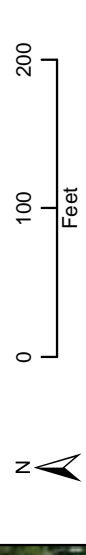
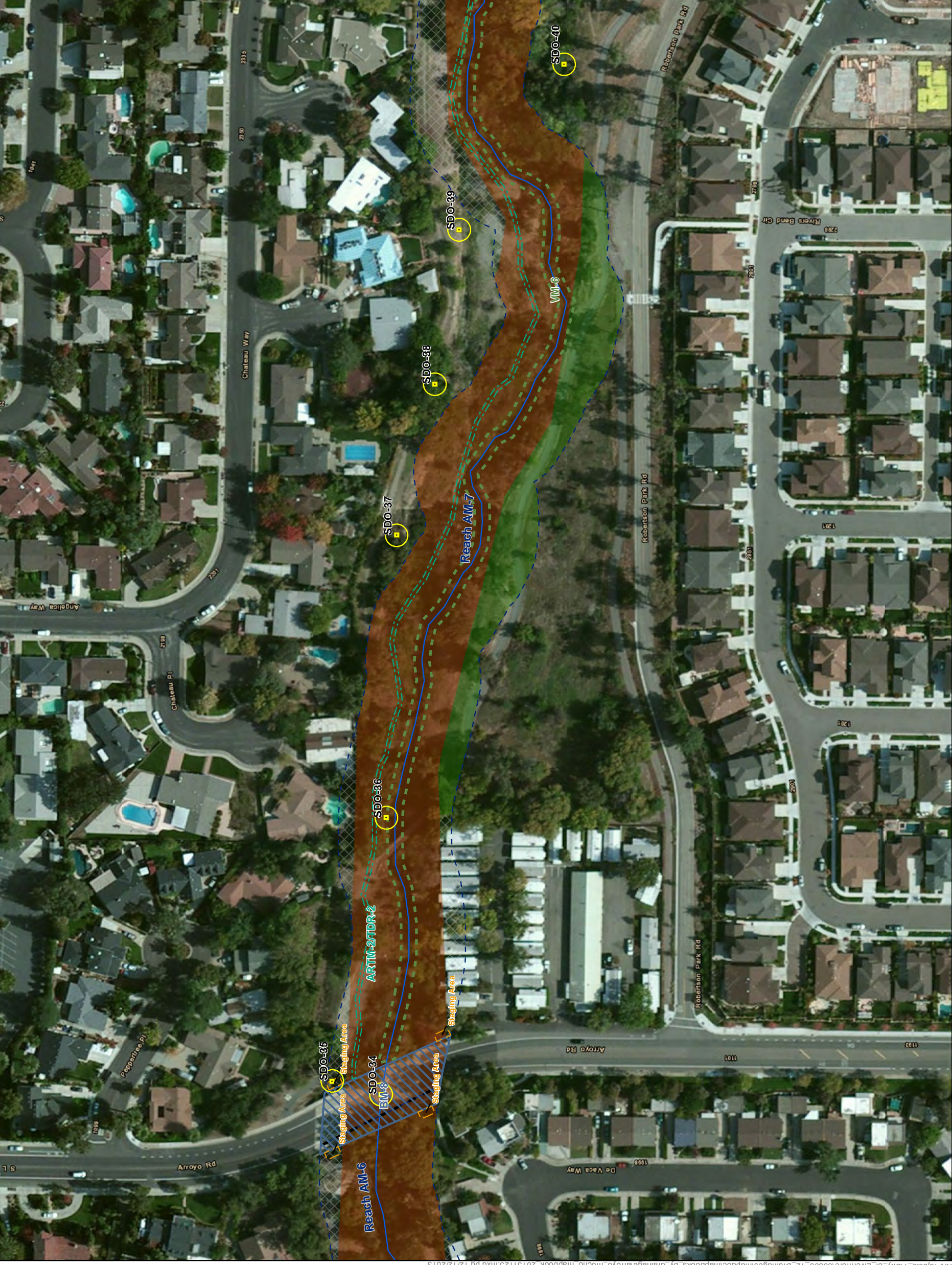


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

- Land Cover**
- California Annual Grassland
 - Cropland
 - Golf Course / Urban Park
 - Mixed Riparian Forest and Woodland
 - Mixed Willow Riparian Scrub
 - Riverine
 - Ruderal
 - Urban - Suburban
 - Vineyard

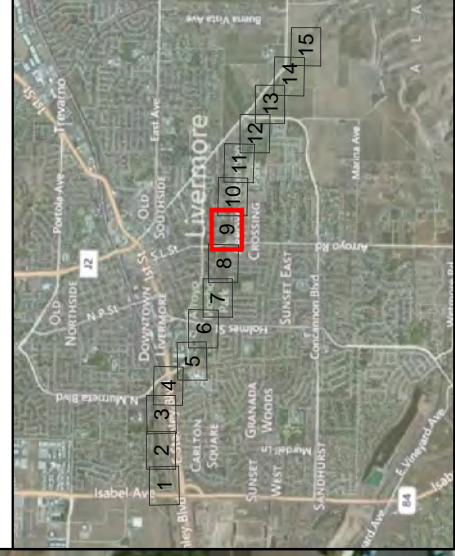
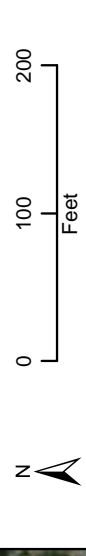


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- California Annual Grassland
- Cropland
- Golf Course / Urban Park
- Mixed Riparian Forest and Woodland
- Mixed Willow Riparian Scrub
- Riverine
- Ruderal
- Urban - Suburban
- Vineyard

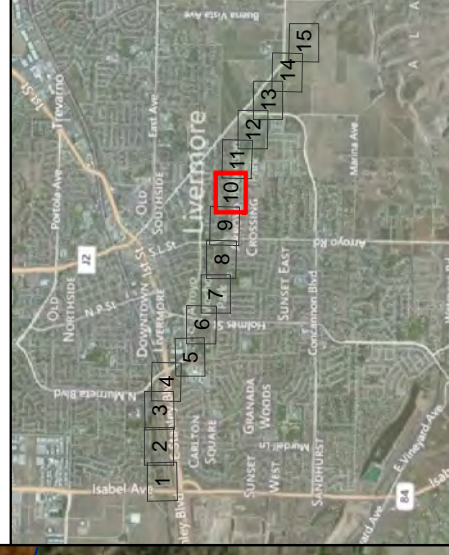
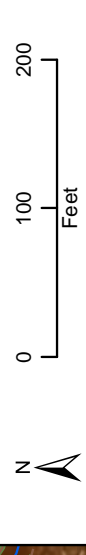
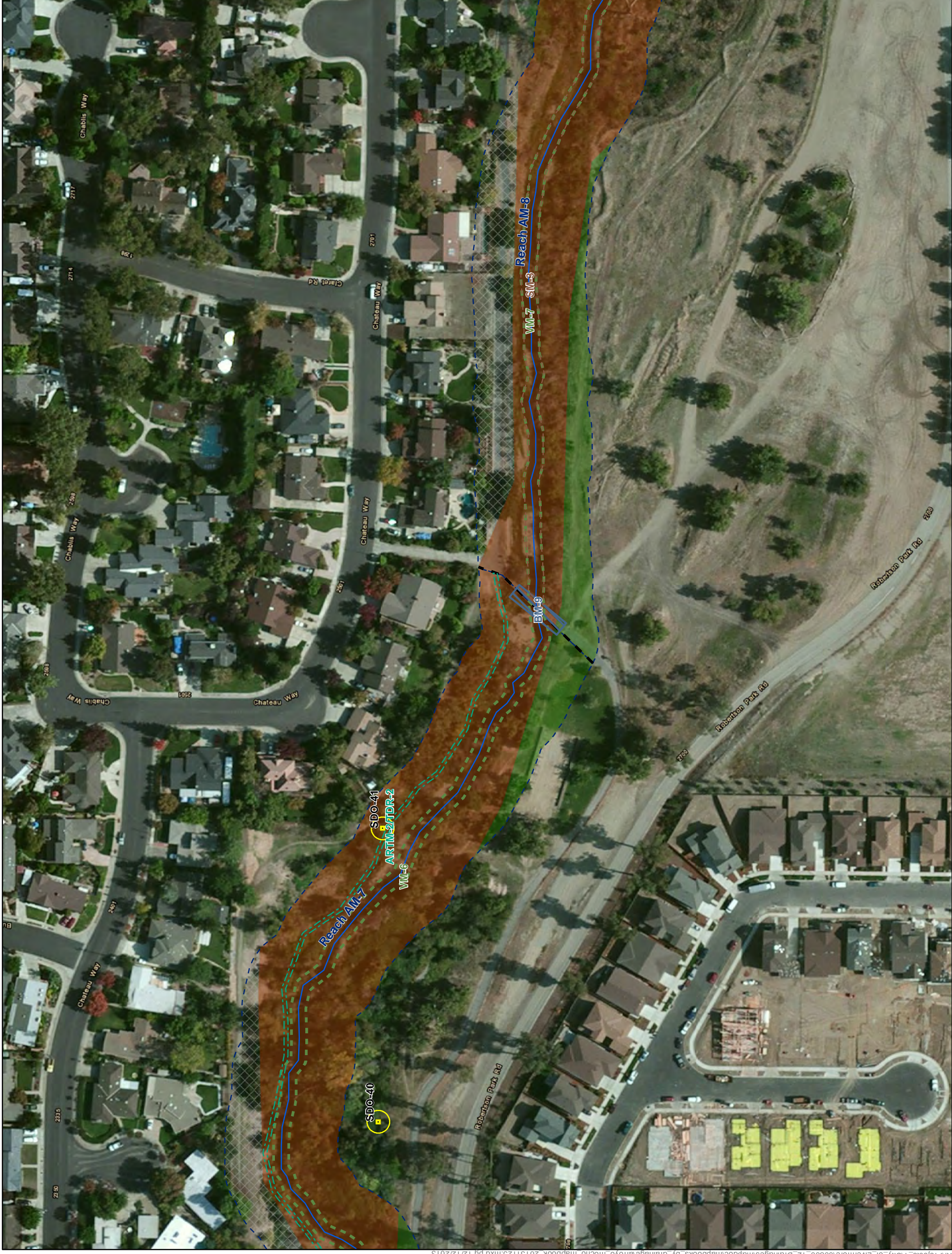


Figure 3-92
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- California Annual Grassland
- Cropland
- Golf Course / Urban Park
- Mixed Riparian Forest and Woodland
- Mixed Willow Riparian Scrub
- Riverine
- Ruderal
- Urban - Suburban
- Vineyard

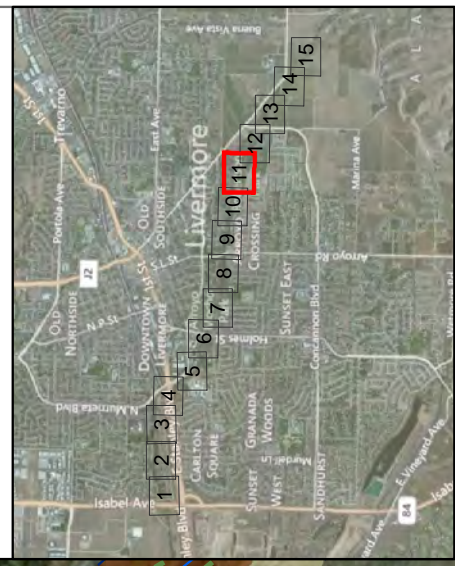
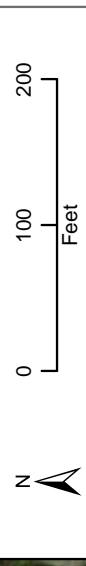


Figure 3-91
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- California Annual Grassland
- Cropland
- Golf Course / Urban Park
- Mixed Riparian Forest and Woodland
- Mixed Willow Riparian Scrub
- Riverine
- Ruderal
- Urban - Suburban
- Vineyard

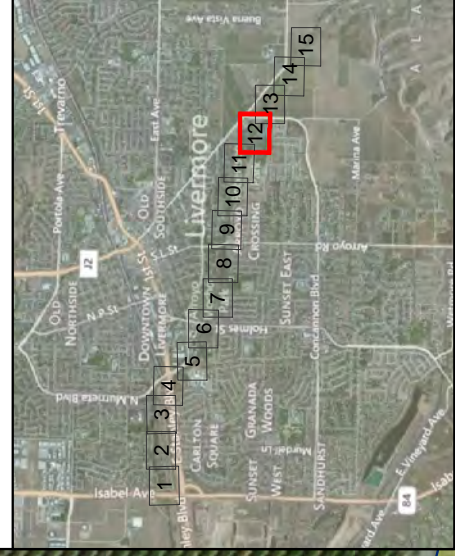
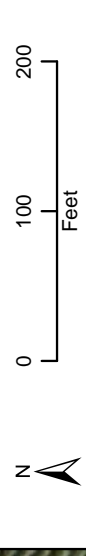
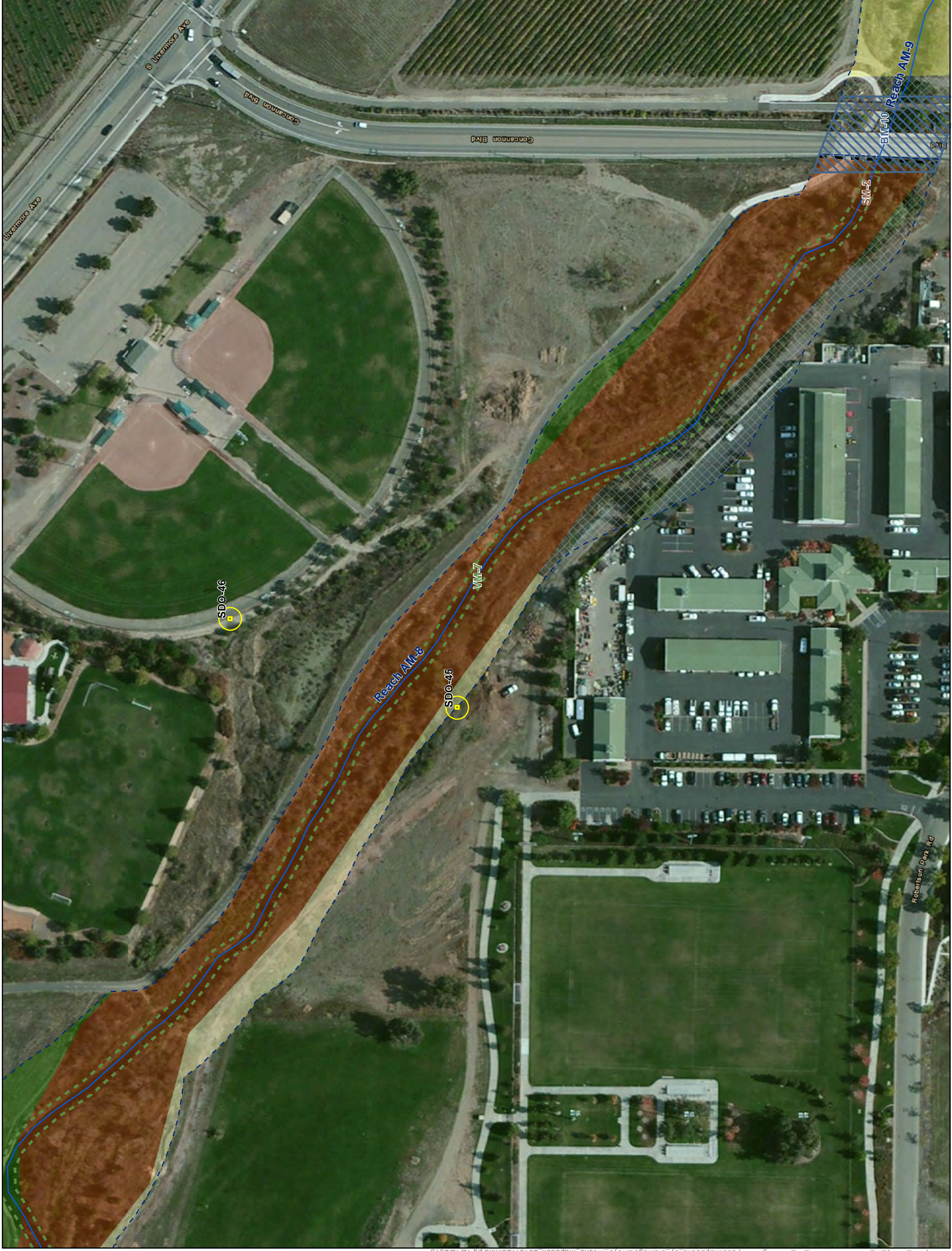


Figure 3-90
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- California Annual Grassland
- Cropland
- Golf Course / Urban Park
- Mixed Riparian Forest and Woodland
- Mixed Willow Riparian Scrub
- Riverine
- Ruderal
- Urban - Suburban
- Vineyard

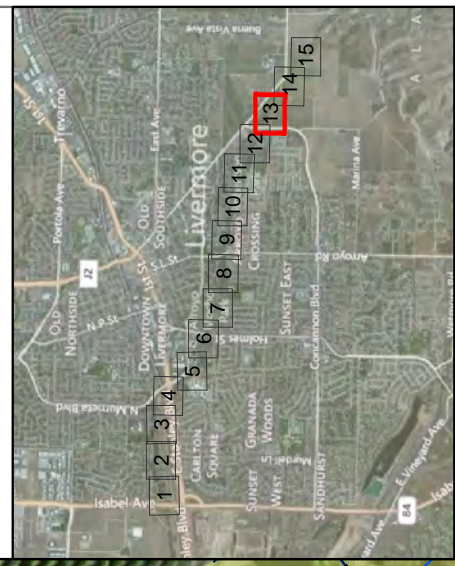
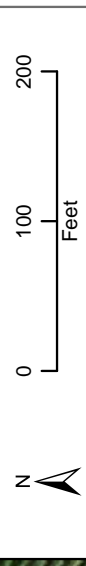


Figure 3-89
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- California Annual Grassland
- Cropland
- Golf Course / Urban Park
- Mixed Riparian Forest and Woodland
- Mixed Willow Riparian Scrub
- Riverine
- Ruderal
- Urban - Suburban
- Vineyard

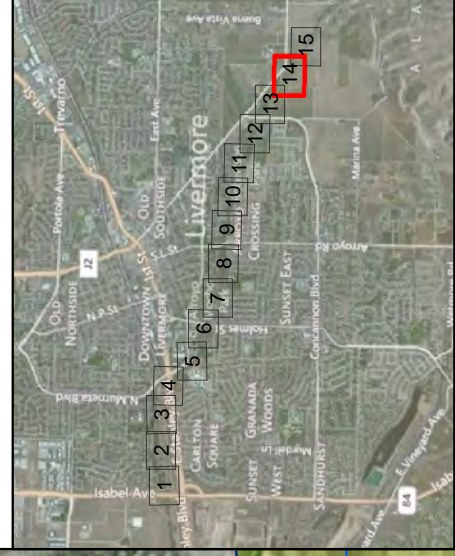
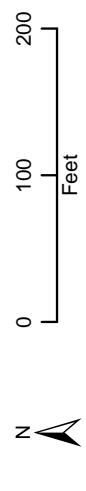


Figure 3-88
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- California Annual Grassland
- Cropland
- Golf Course / Urban Park
- Mixed Riparian Forest and Woodland
- Mixed Willow Riparian Scrub
- Riverine
- Ruderal
- Urban - Suburban
- Vineyard

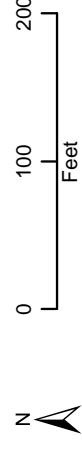


Figure 3-87
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- California Annual Grassland
 - Mixed Riparian Forest and Woodland
 - Riverine
 - Ruderal
 - Rural - Residential
 - Seasonal Wetland
 - Urban - Suburban



See Figure 3-61
Arroyo Las Positas Reach ALP-9

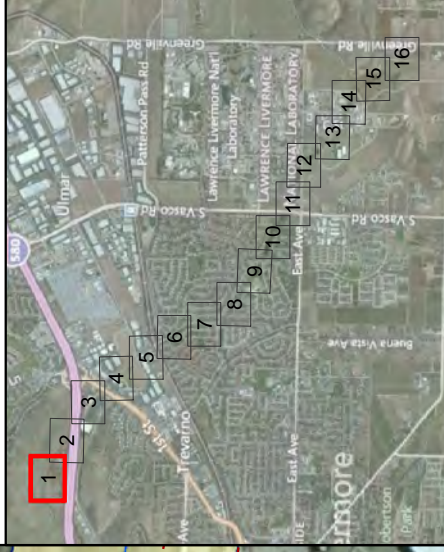


Figure 3-117
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- California Annual Grassland
 - Mixed Riparian Forest and Woodland
 - Riverine
 - Ruderal
 - Rural - Residential
 - Seasonal Wetland
 - Urban - Suburban

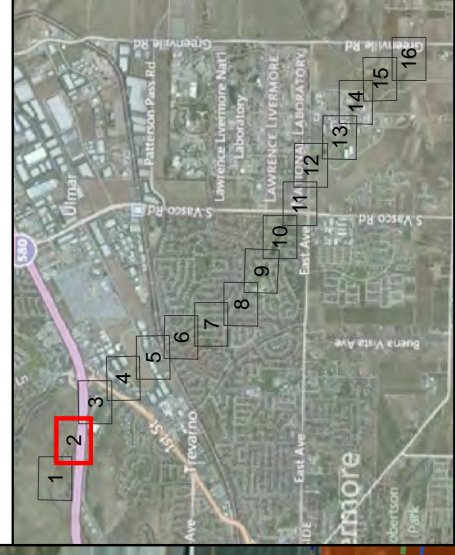
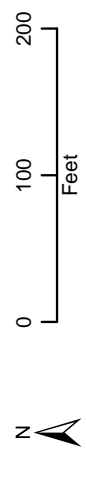


Figure 3-116
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- California Annual Grassland
 - Mixed Riparian Forest and Woodland
 - Riverine
 - Ruderal
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 - Seasonal Wetland
 - Urban - Suburban

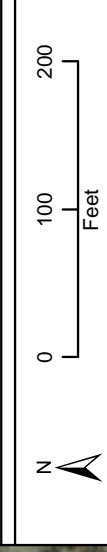


Figure 3-115
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- California Annual Grassland
 - Mixed Riparian Forest and Woodland
 - Riverine
 - Ruderal
 - Rural - Residential
 - Seasonal Wetland
 - Urban - Suburban

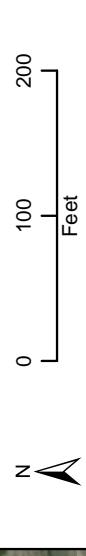
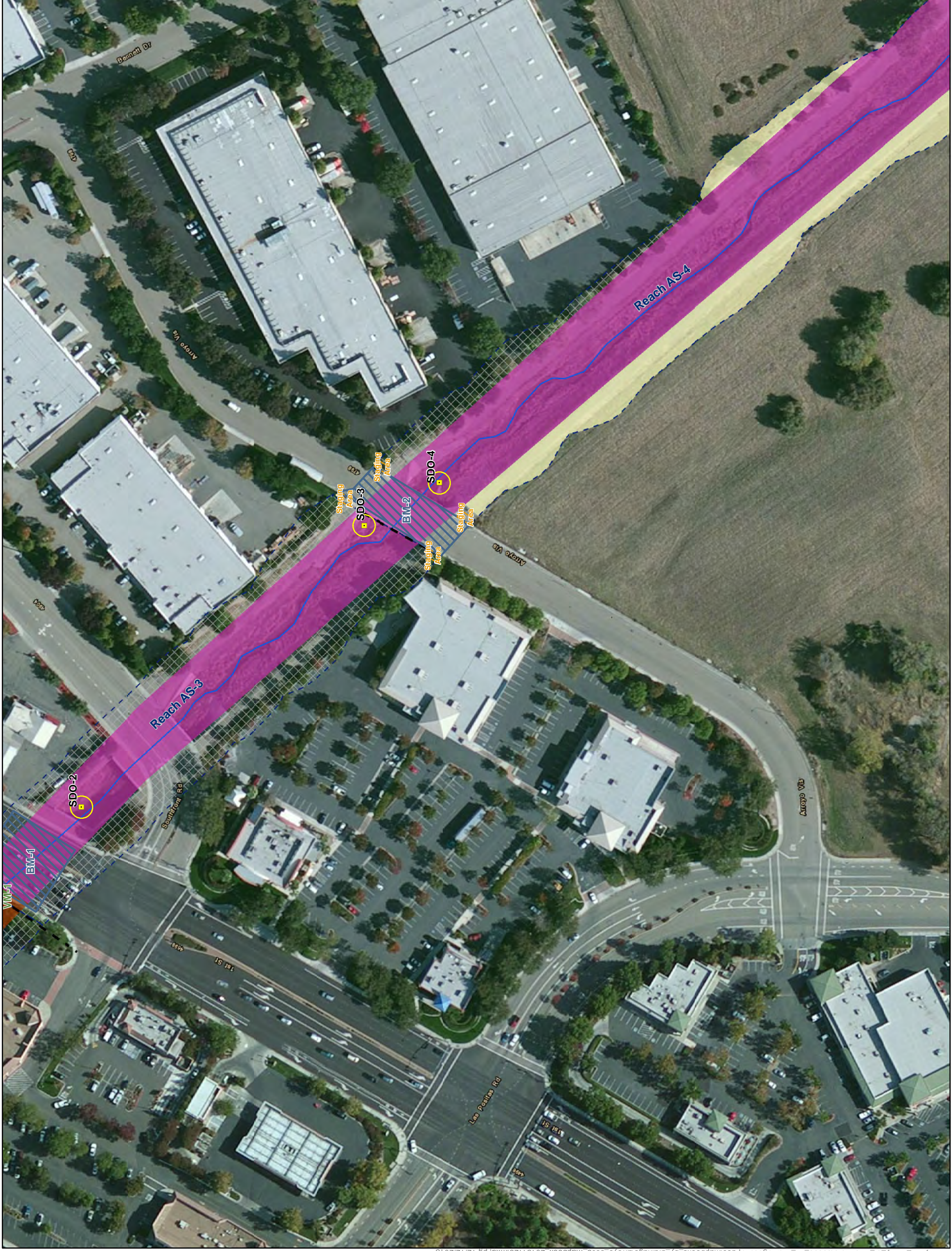


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City of Livermore
Stream Maintenance Program



- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- California Annual Grassland
 - Mixed Riparian Forest and Woodland
 - Riverine
 - Ruderal
 - Rural - Residential
 - Seasonal Wetland
 - Urban - Suburban

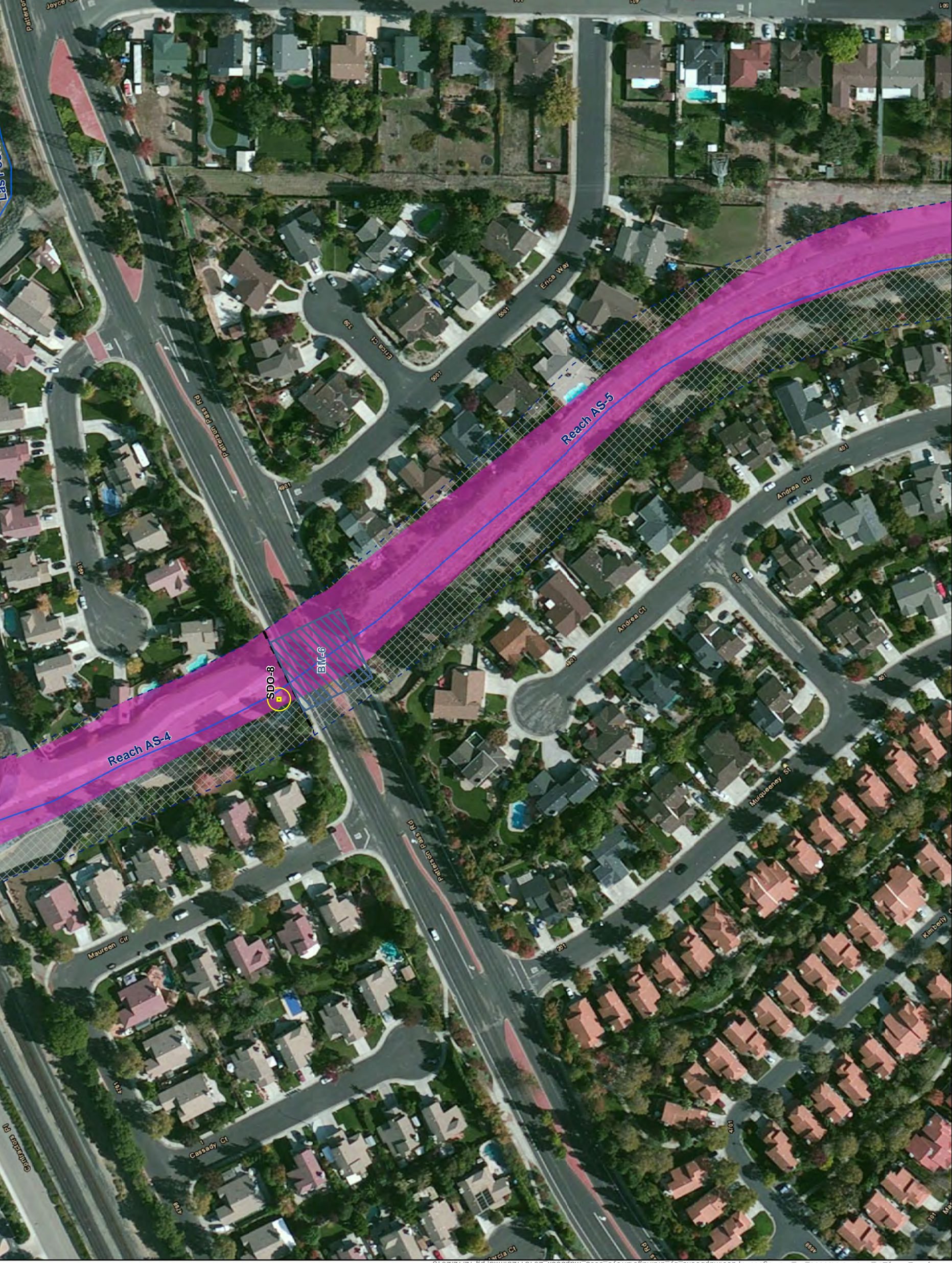


See Figure 3-141
Realigned Arroyo Las Positas
Reach RALP-1



Figure 3-113
Arroyo Seco
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- California Annual Grassland
- Mixed Riparian Forest and Woodland
- Riverine
- Ruderal
- Rural - Residential
- Seasonal Wetland
- Urban - Suburban

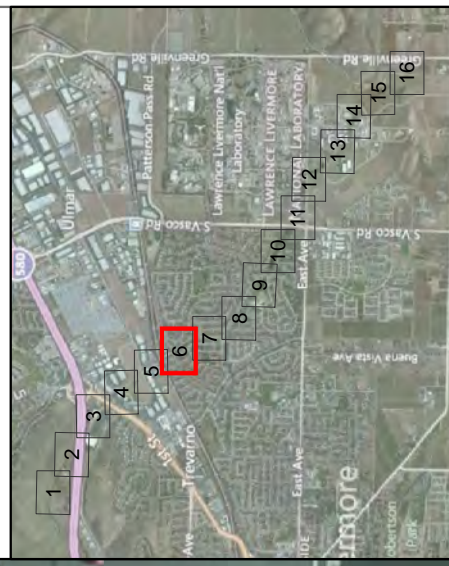


Figure 3-112
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- California Annual Grassland
 - Mixed Riparian Forest and Woodland
 - Riverine
 - Ruderal
 - Rural - Residential
 - Seasonal Wetland
 - Urban - Suburban

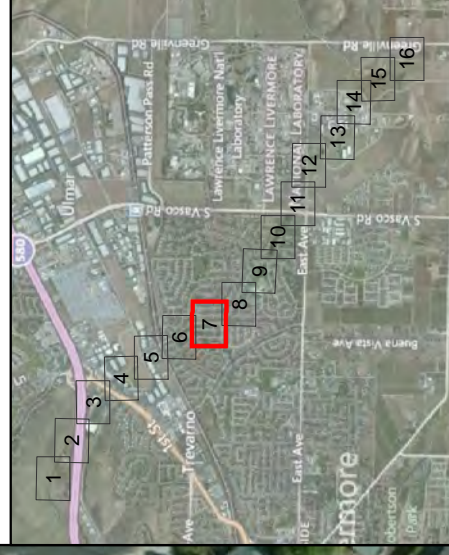
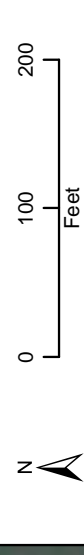
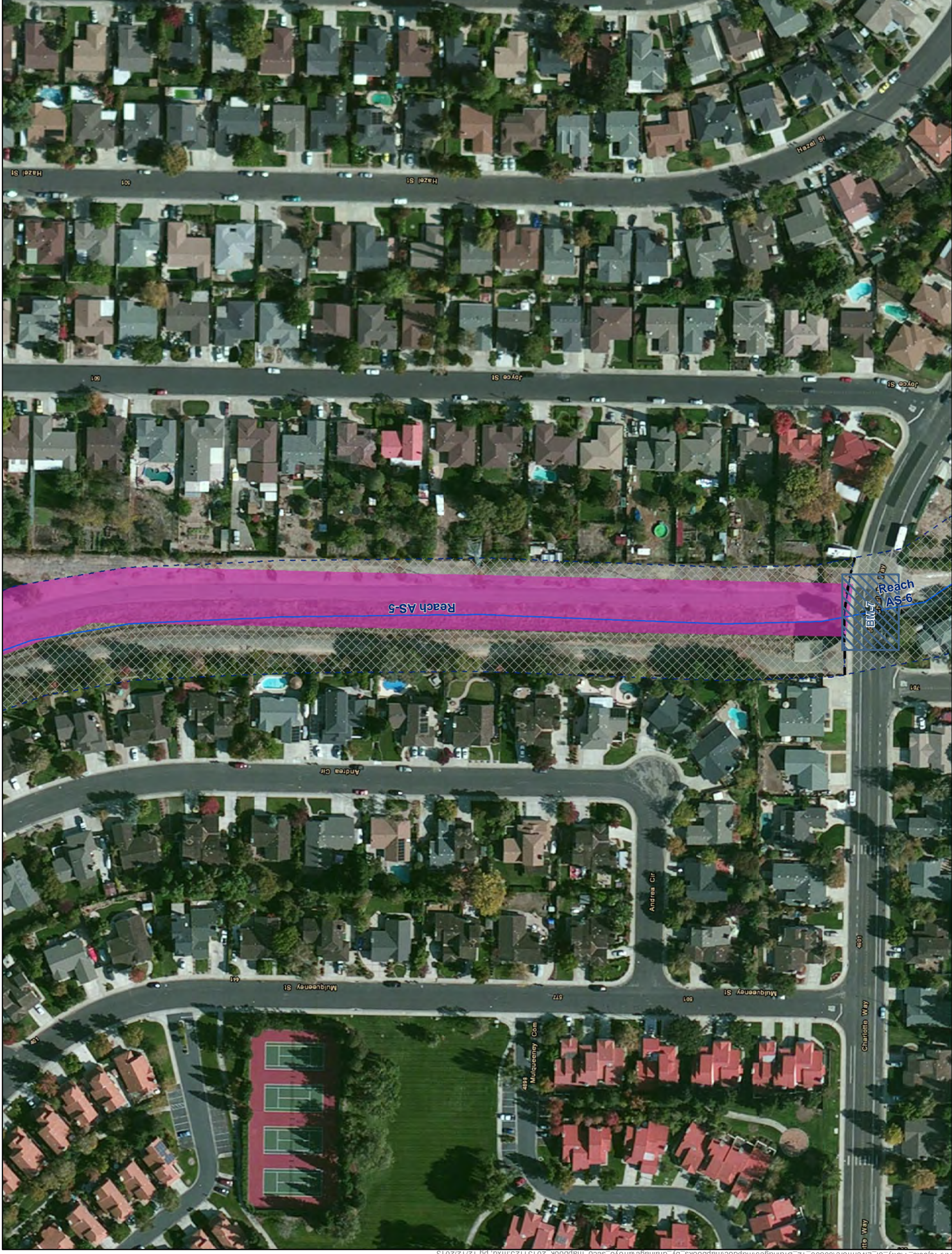


Figure 3-111
Arroyo Seco
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- California Annual Grassland
 - Mixed Riparian Forest and Woodland
 - Riverine
 - Ruderal
 - Rural - Residential
 - Seasonal Wetland
 - Urban - Suburban

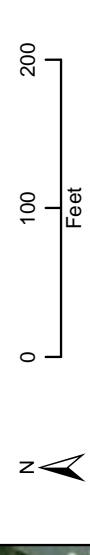
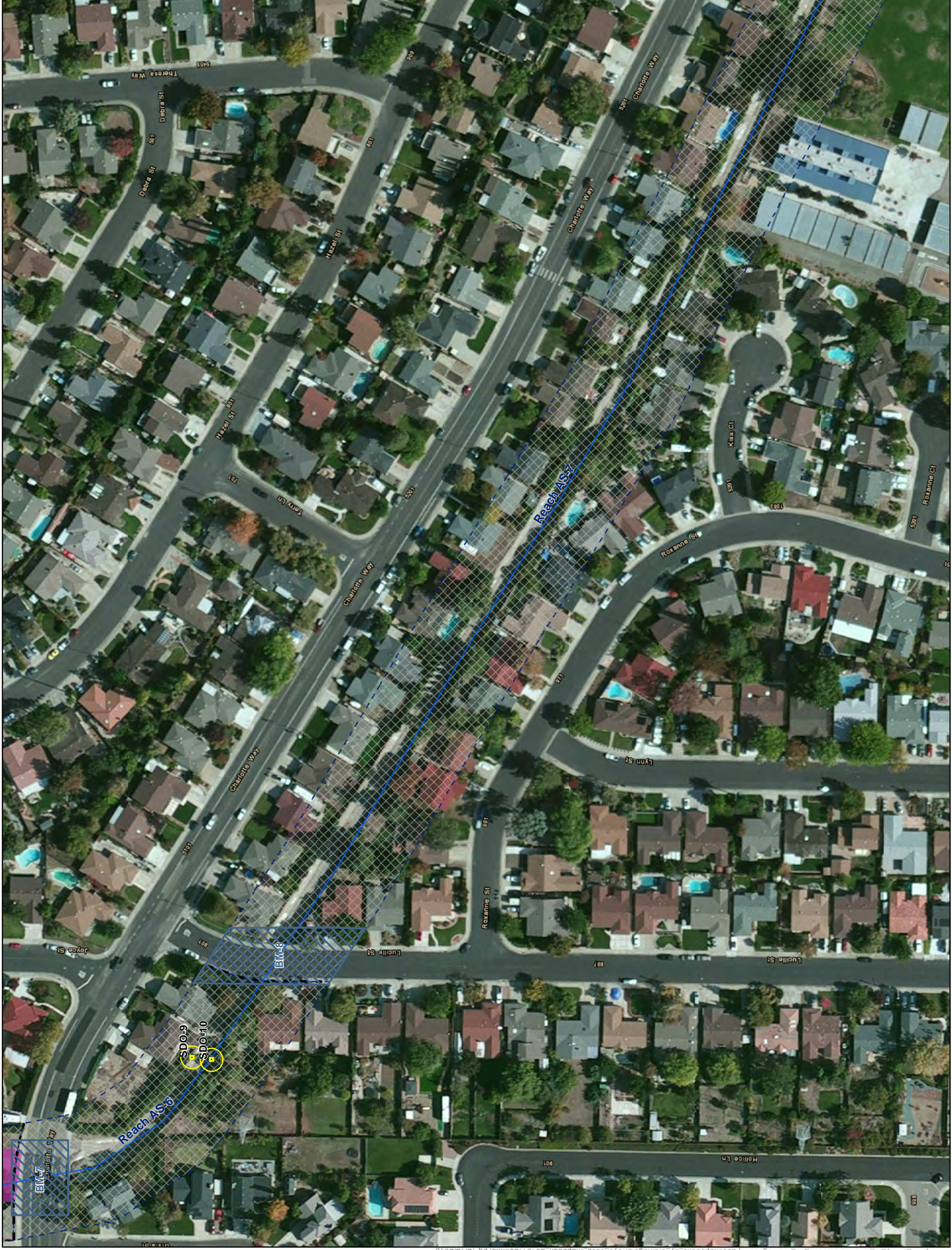


Figure 3-110
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- California Annual Grassland
 - Mixed Riparian Forest and Woodland
 - Riverine
 - Ruderal
 - Rural - Residential
 - Seasonal Wetland
 - Urban - Suburban

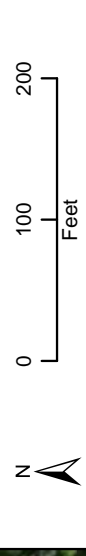
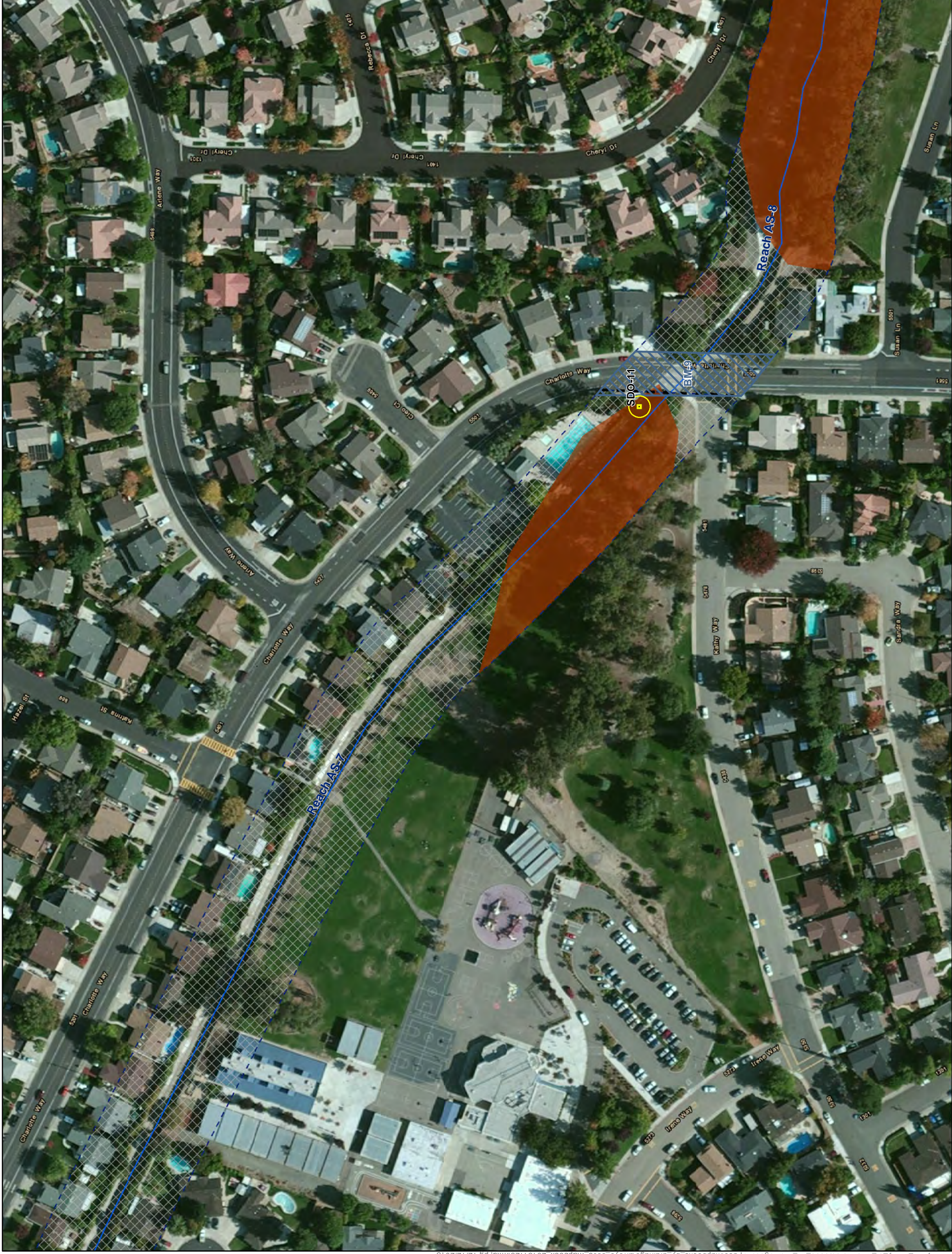


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- California Annual Grassland
 - Mixed Riparian Forest and Woodland
 - Riverine
 - Ruderal
 - Rural - Residential
 - Seasonal Wetland
 - Urban - Suburban

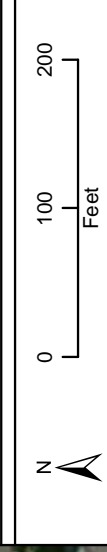
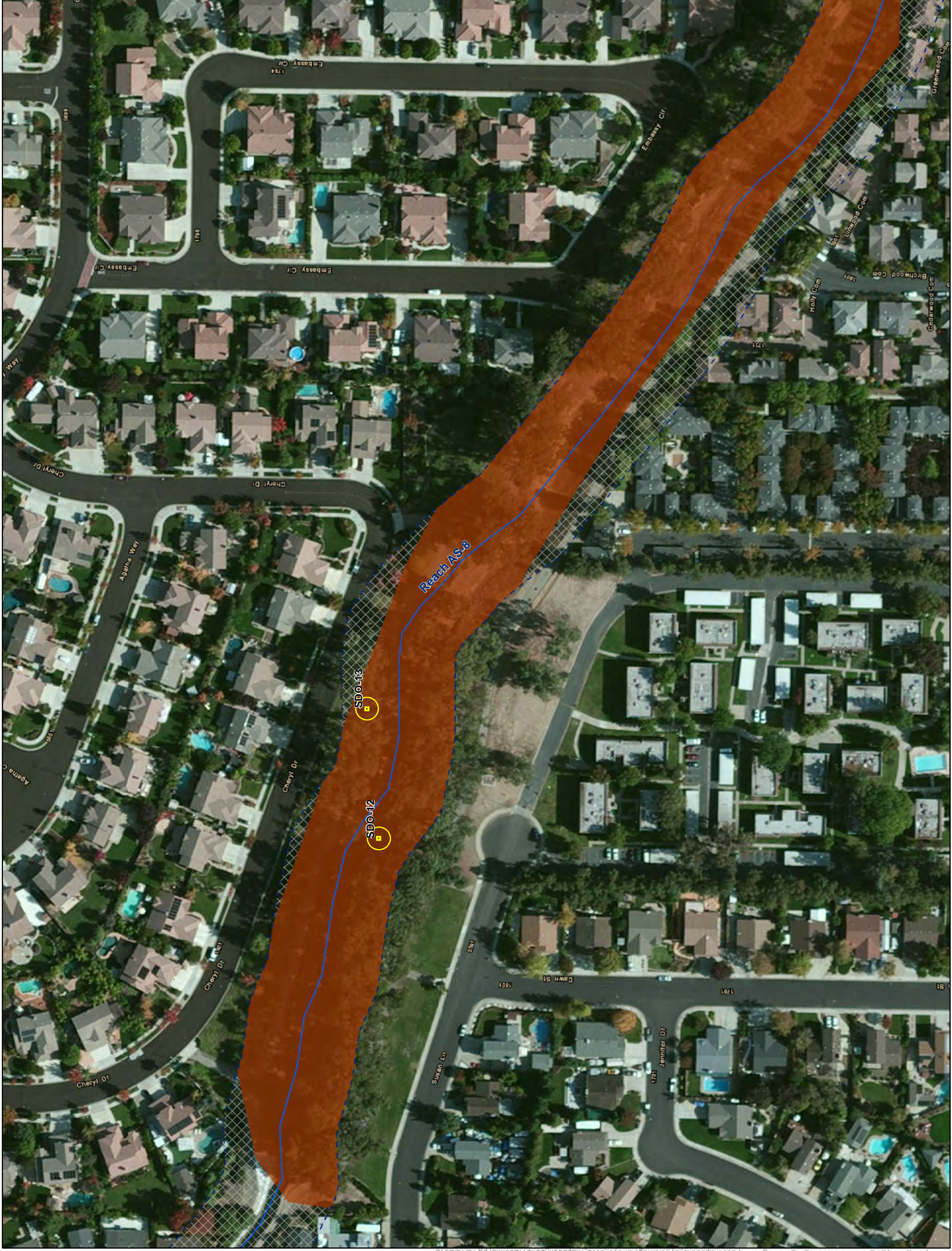


Figure 3-108
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- California Annual Grassland
 - Mixed Riparian Forest and Woodland
 - Riverine
 - Ruderal
 - Rural - Residential
 - Seasonal Wetland
 - Urban - Suburban

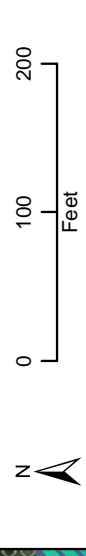


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- California Annual Grassland
- Mixed Riparian Forest and Woodland
- Riverine
- Ruderal
- Rural - Residential
- Seasonal Wetland
- Urban - Suburban

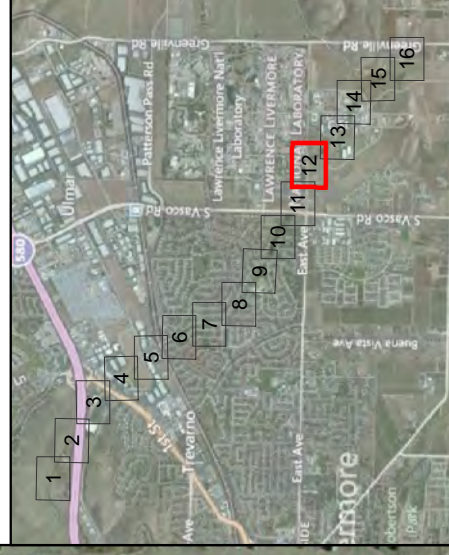
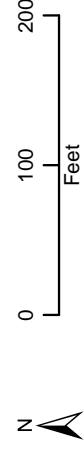


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- California Annual Grassland
 - Mixed Riparian Forest and Woodland
 - Riverine
 - Ruderal
 - Rural - Residential
 - Seasonal Wetland
 - Urban - Suburban

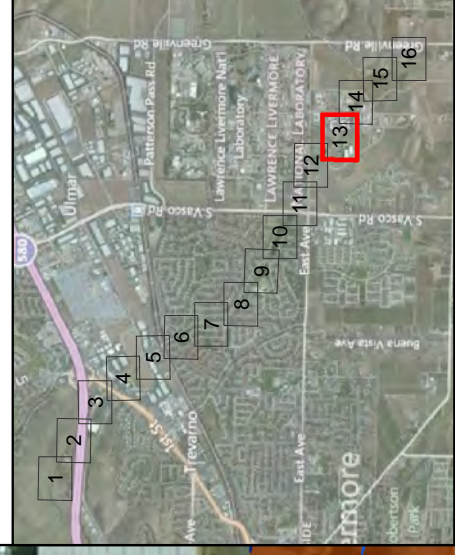
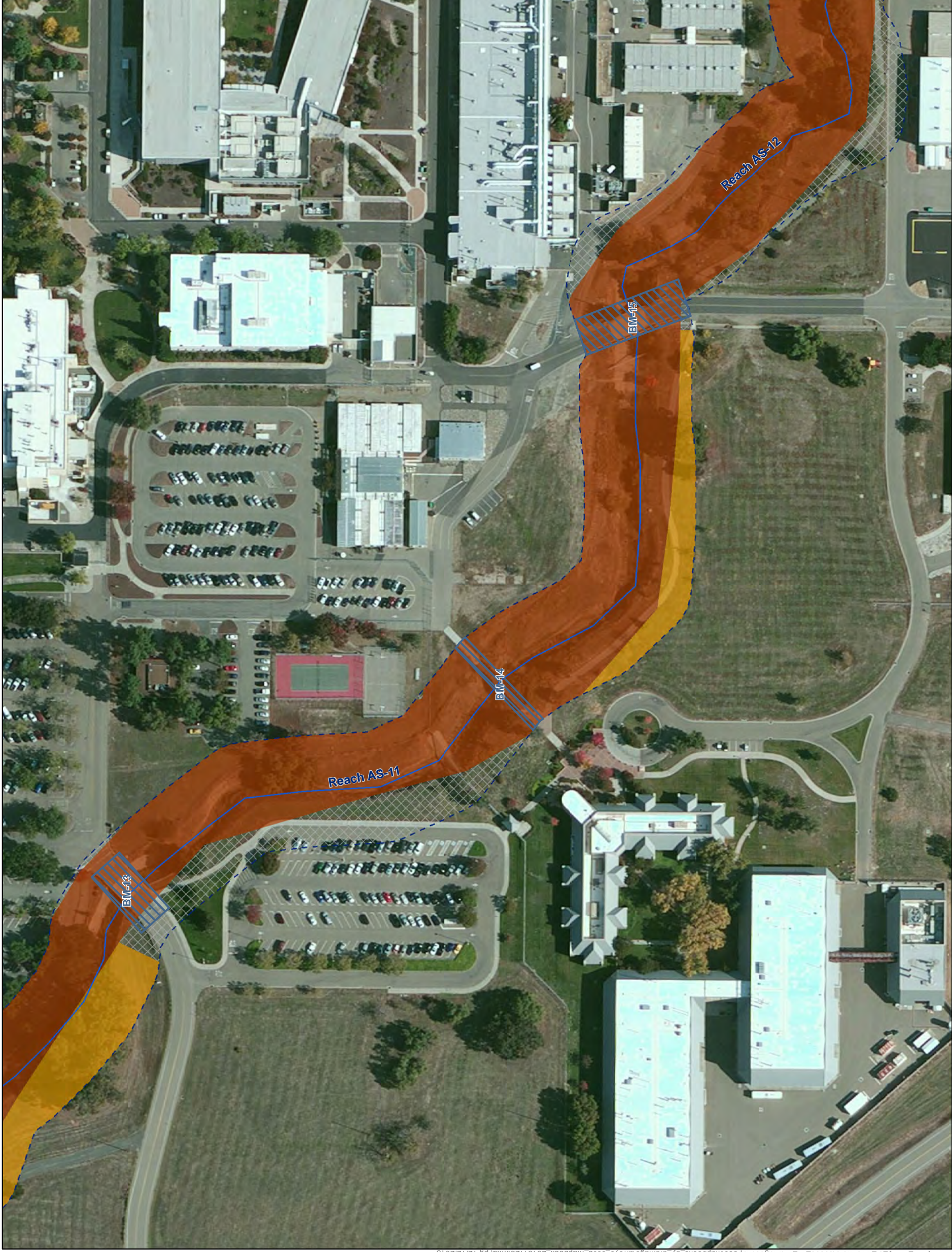


Figure 3-105
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- California Annual Grassland
 - Mixed Riparian Forest and Woodland
 - Riverine
 - Ruderal
 - Rural - Residential
 - Seasonal Wetland
 - Urban - Suburban

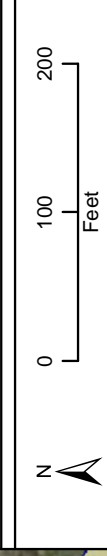


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - - - Reach Break
 - - - 75-foot Stream Buffer
 - Ⓜ Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- California Annual Grassland
 - Mixed Riparian Forest and Woodland
 - Riverine
 - Ruderal
 - Rural - Residential
 - Seasonal Wetland
 - Urban - Suburban

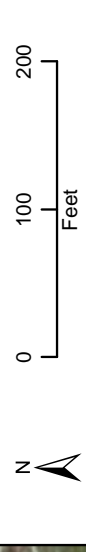


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- California Annual Grassland
 - Mixed Riparian Forest and Woodland
 - Riverine
 - Ruderal
 - Rural - Residential
 - Seasonal Wetland
 - Urban - Suburban

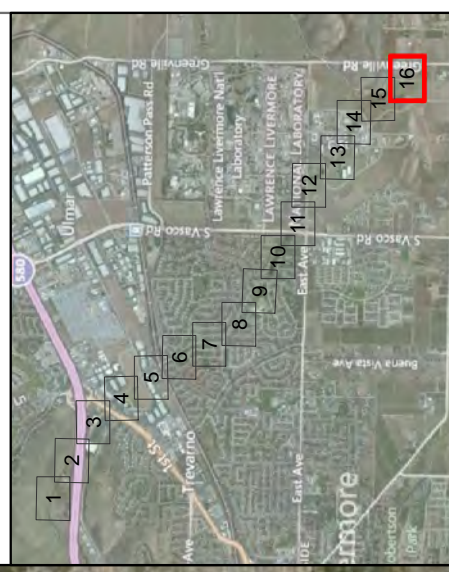
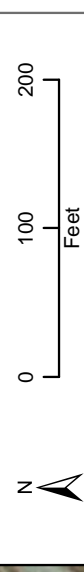
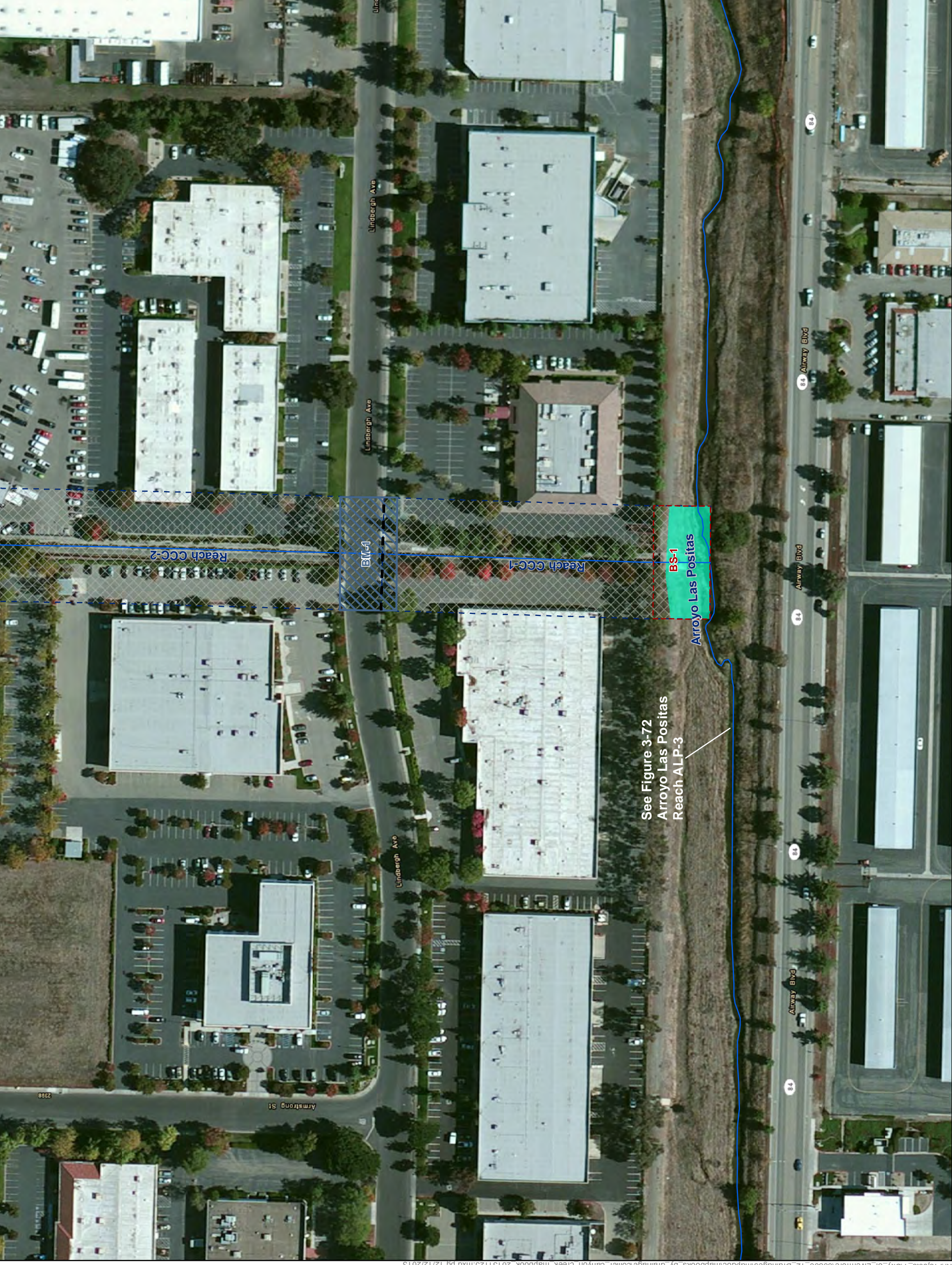


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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

Land Cover

- California Annual Grassland
- Cropland
- Golf Course / Urban Park
- Mixed Riparian Forest and Woodland
- Seasonal Wetland
- Urban - Suburban

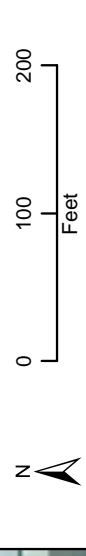
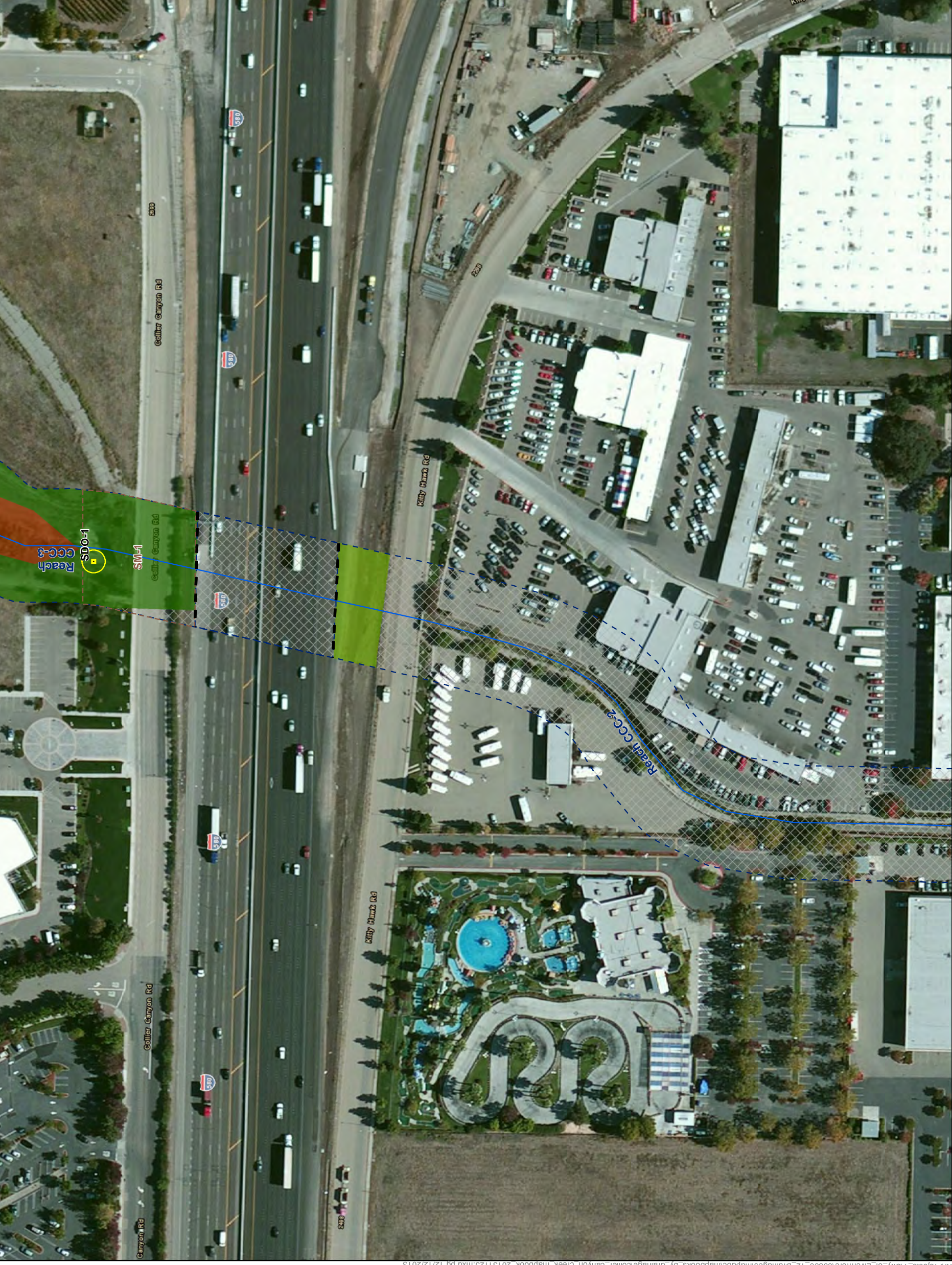


Figure 3-126
Collier Creek
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - - - Reach Break
 - - - 75-foot Stream Buffer
 - Ⓜ Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- California Annual Grassland
 - Cropland
 - Golf Course / Urban Park
 - Mixed Riparian Forest and Woodland
 - Seasonal Wetland
 - Urban - Suburban

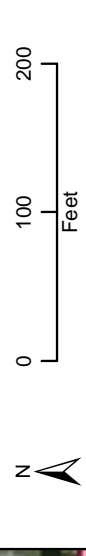
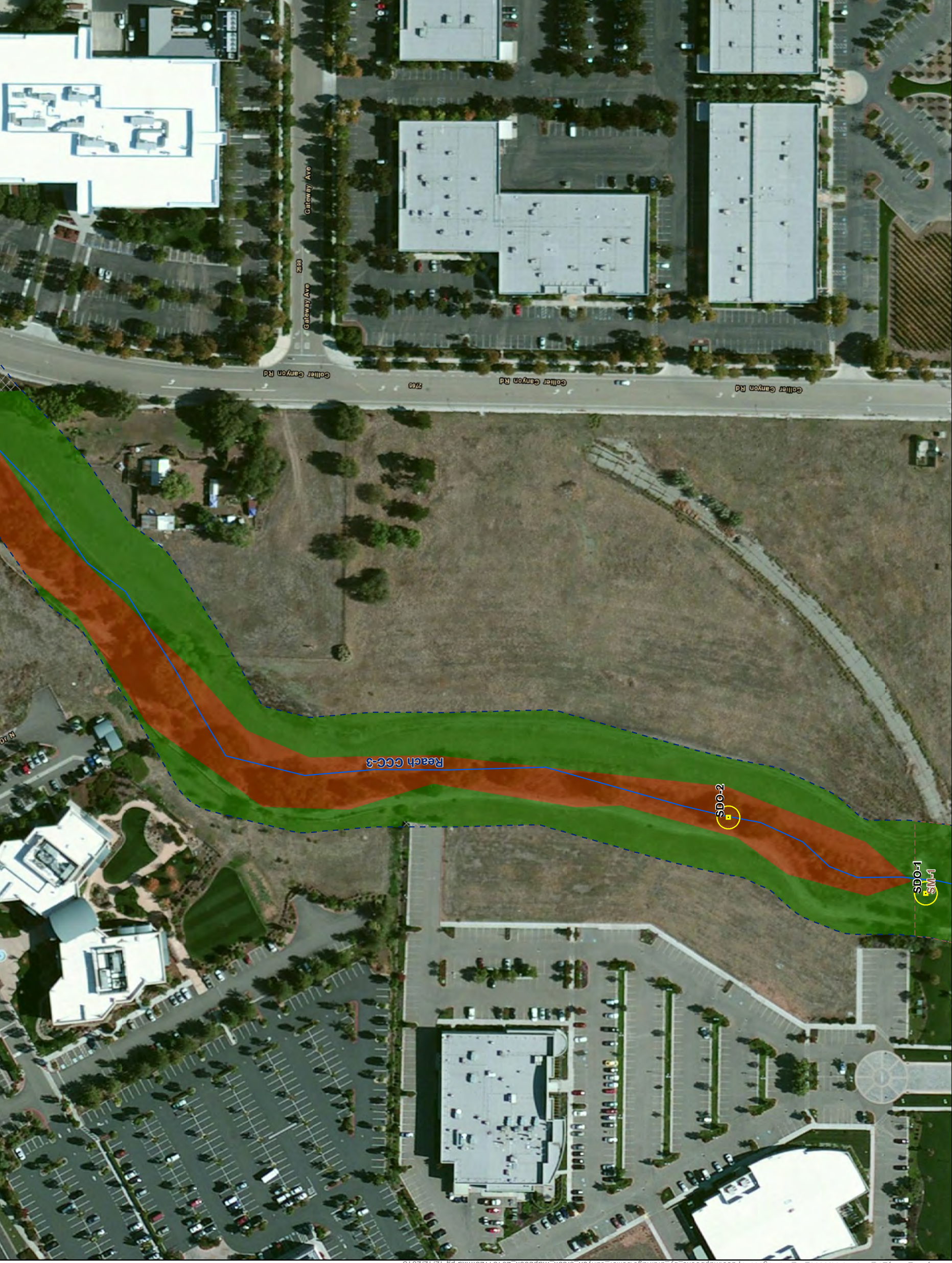


Figure 3-125
Collier Creek
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- California Annual Grassland
 - Cropland
 - Golf Course / Urban Park
 - Mixed Riparian Forest and Woodland
 - Seasonal Wetland
 - Urban - Suburban



Figure 3-124
Collier Creek
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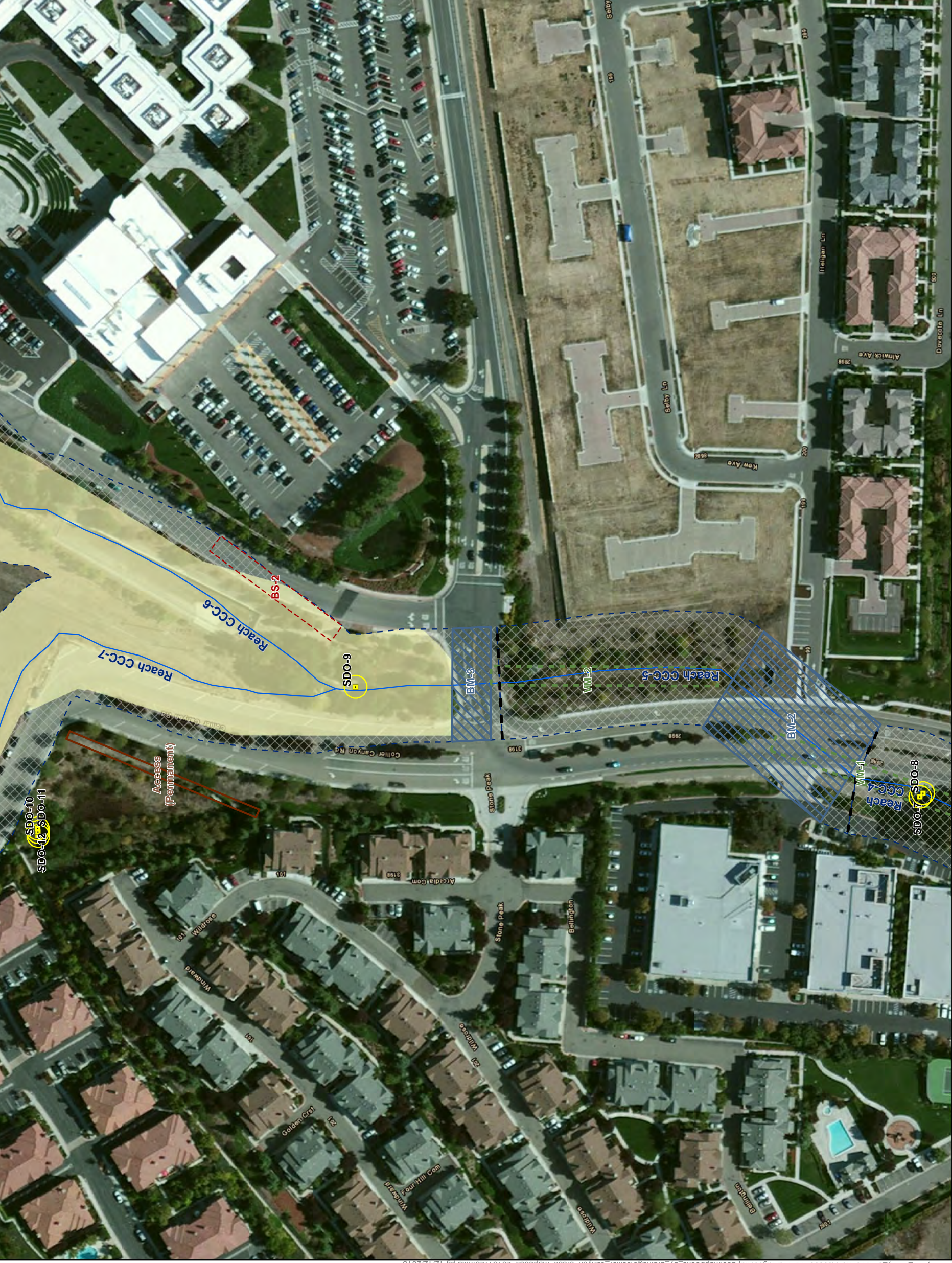
**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- California Annual Grassland
 - Cropland
 - Golf Course / Urban Park
 - Mixed Riparian Forest and Woodland
 - Seasonal Wetland
 - Urban - Suburban



Figure 3-123
Collier Creek
Page 4 of 9



**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - - - Reach Break
 - - - 75-foot Stream Buffer
 - ⊙ Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- California Annual Grassland
 - Cropland
 - Golf Course / Urban Park
 - Mixed Riparian Forest and Woodland
 - Seasonal Wetland
 - Urban - Suburban

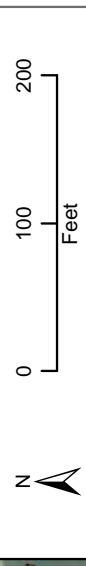


Figure 3-122
Collier Creek
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- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- California Annual Grassland
 - Cropland
 - Golf Course / Urban Park
 - Mixed Riparian Forest and Woodland
 - Seasonal Wetland
 - Urban - Suburban

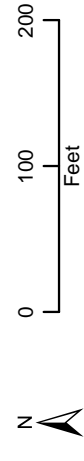


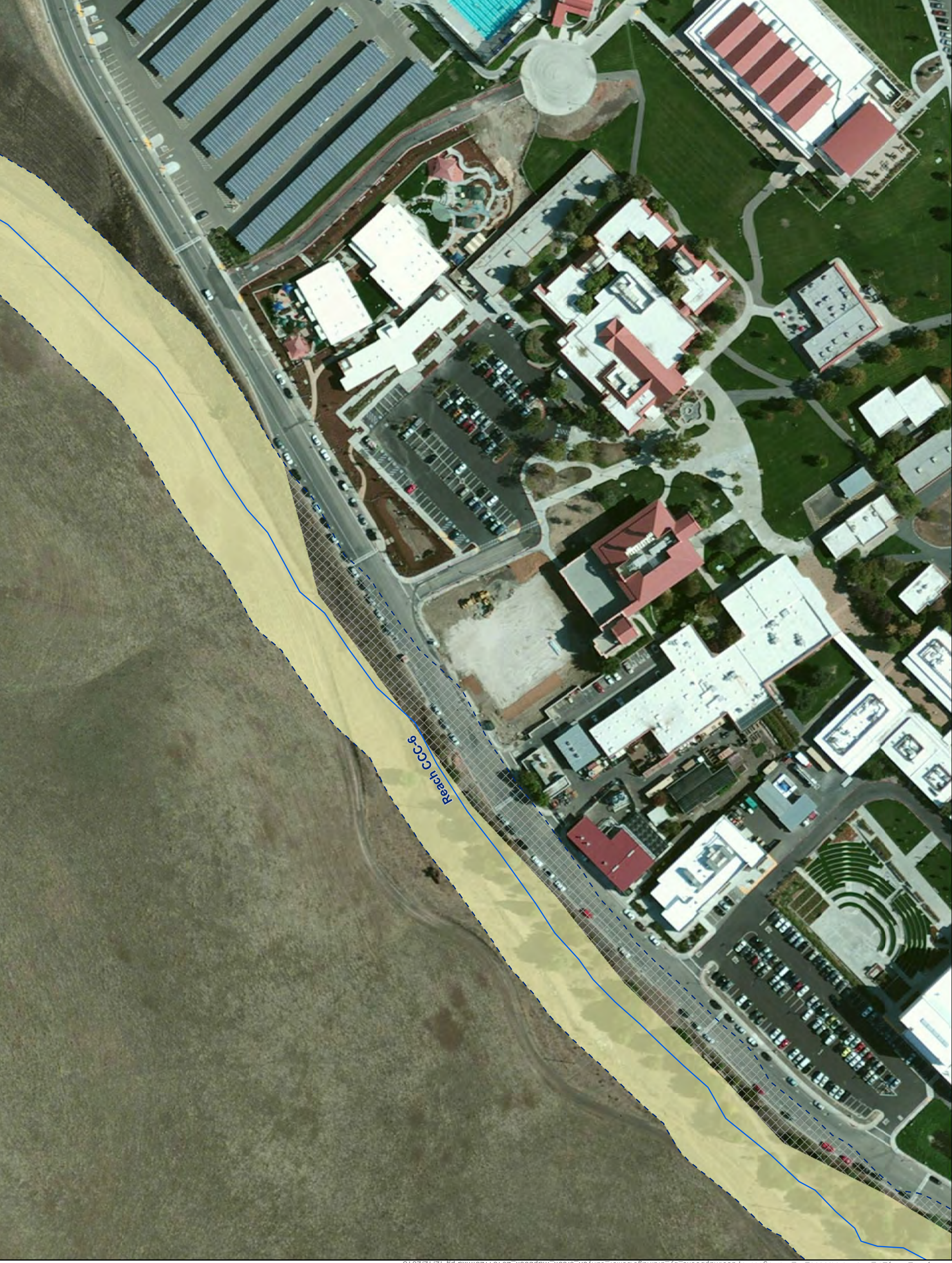
Figure 3-121
Collier Creek
Page 6 of 9

- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- California Annual Grassland
 - Cropland
 - Golf Course / Urban Park
 - Mixed Riparian Forest and Woodland
 - Seasonal Wetland
 - Urban - Suburban



Figure 3-120
Collier Creek
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - - - Reach Break
 - - - 75-foot Stream Buffer
 - Ⓜ Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- California Annual Grassland
 - Cropland
 - Golf Course / Urban Park
 - Mixed Riparian Forest and Woodland
 - Seasonal Wetland
 - Urban - Suburban

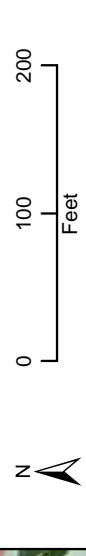


Figure 3-119
Collier Creek
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- California Annual Grassland
 - Cropland
 - Golf Course / Urban Park
 - Mixed Riparian Forest and Woodland
 - Seasonal Wetland
 - Urban - Suburban

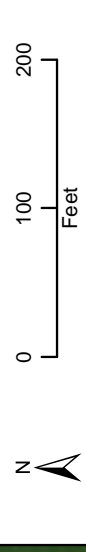
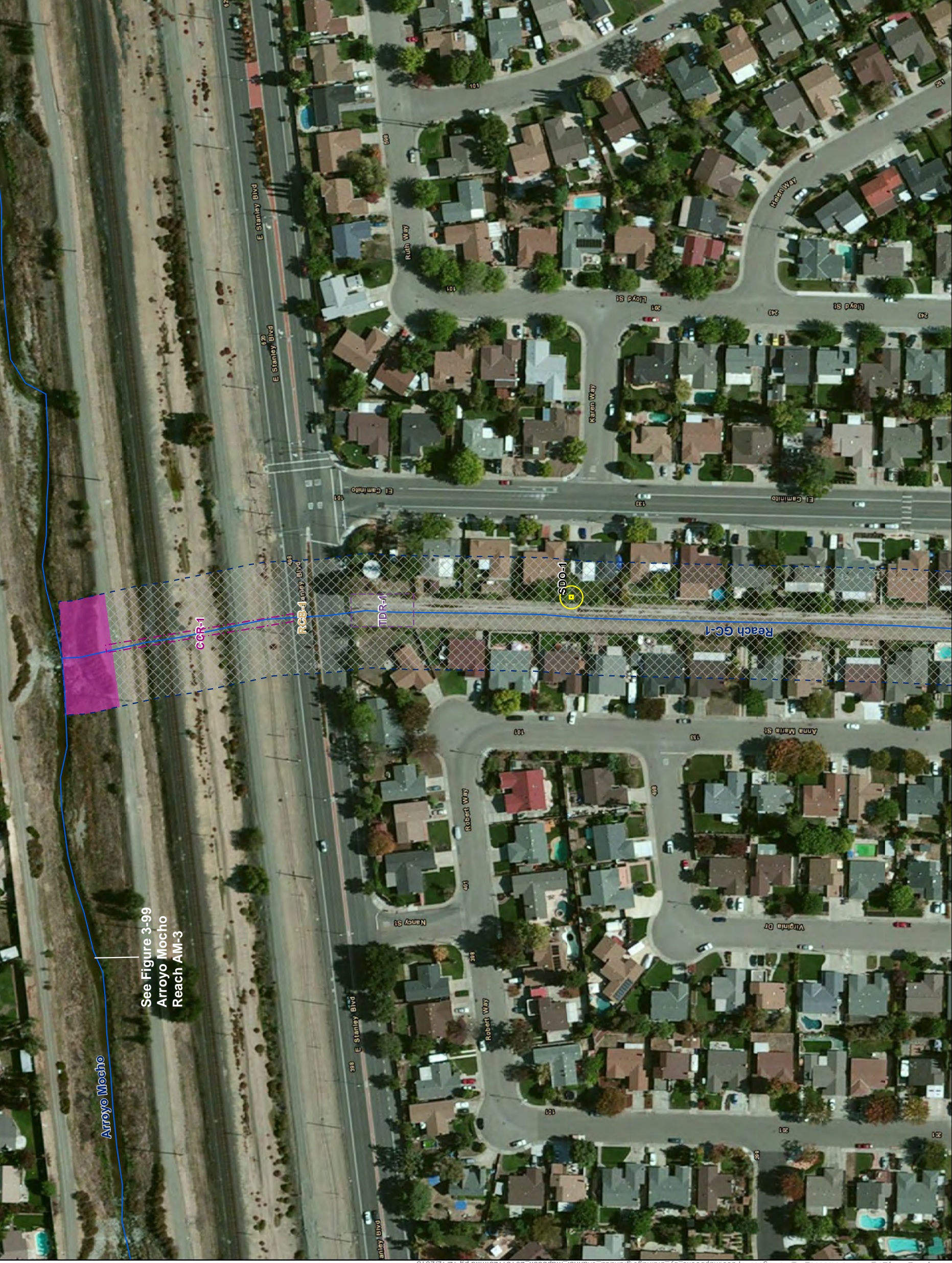


Figure 3-118
Collier Creek
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**City of Livermore
Stream Maintenance Program**



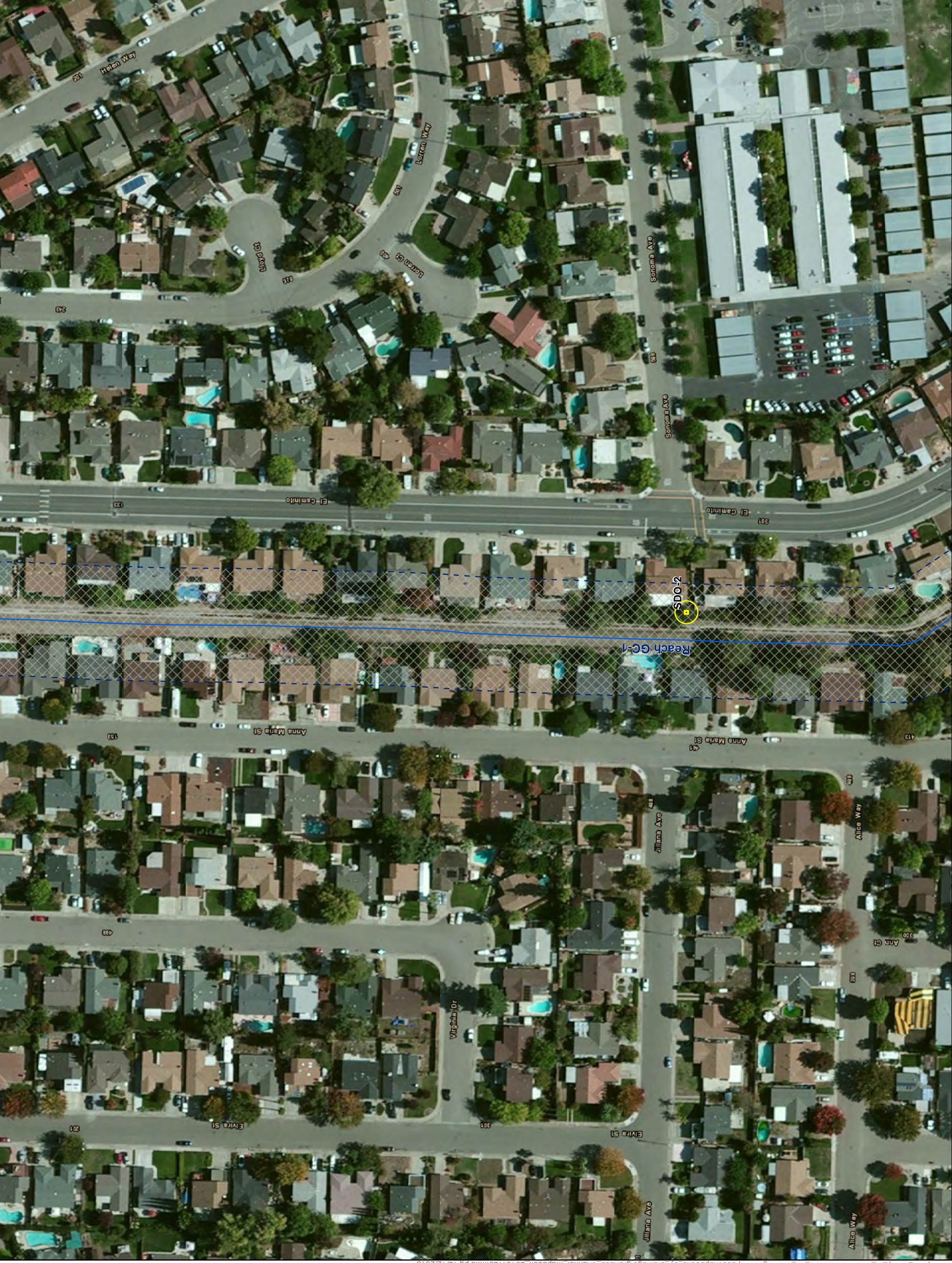
- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

- Land Cover**
- Riverine
 - Urban - Suburban



Figure 3-130
Granada Channel
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

- Land Cover**
- Riverine
 - Urban - Suburban

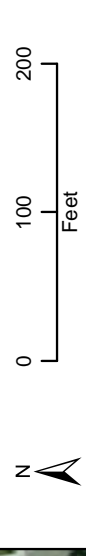
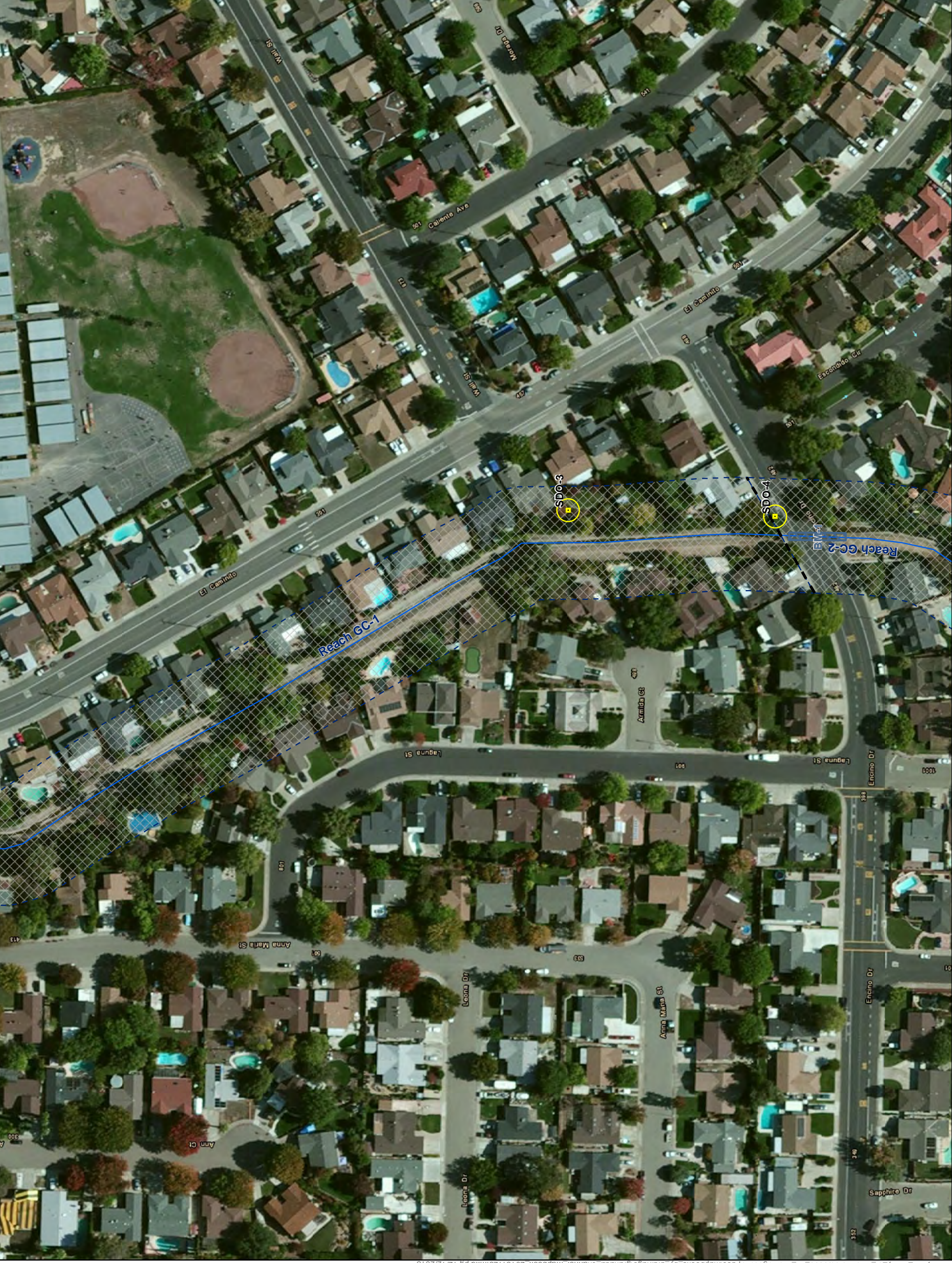


Figure 3-129
Granada Channel
Page 2 of 4



**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

- Land Cover**
- Riverine
 - Urban - Suburban

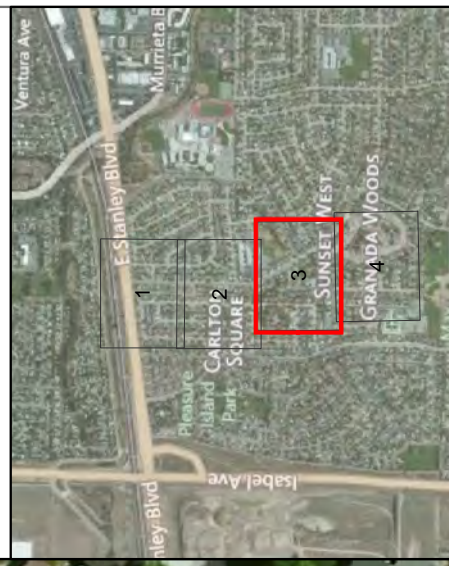
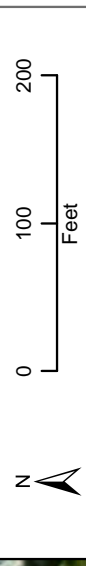


Figure 3-128
Granada Channel
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- Riverine
 - Urban - Suburban

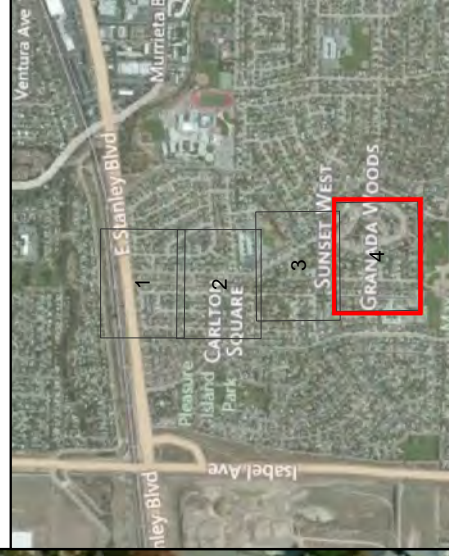
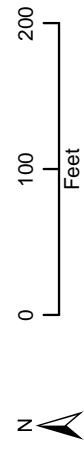
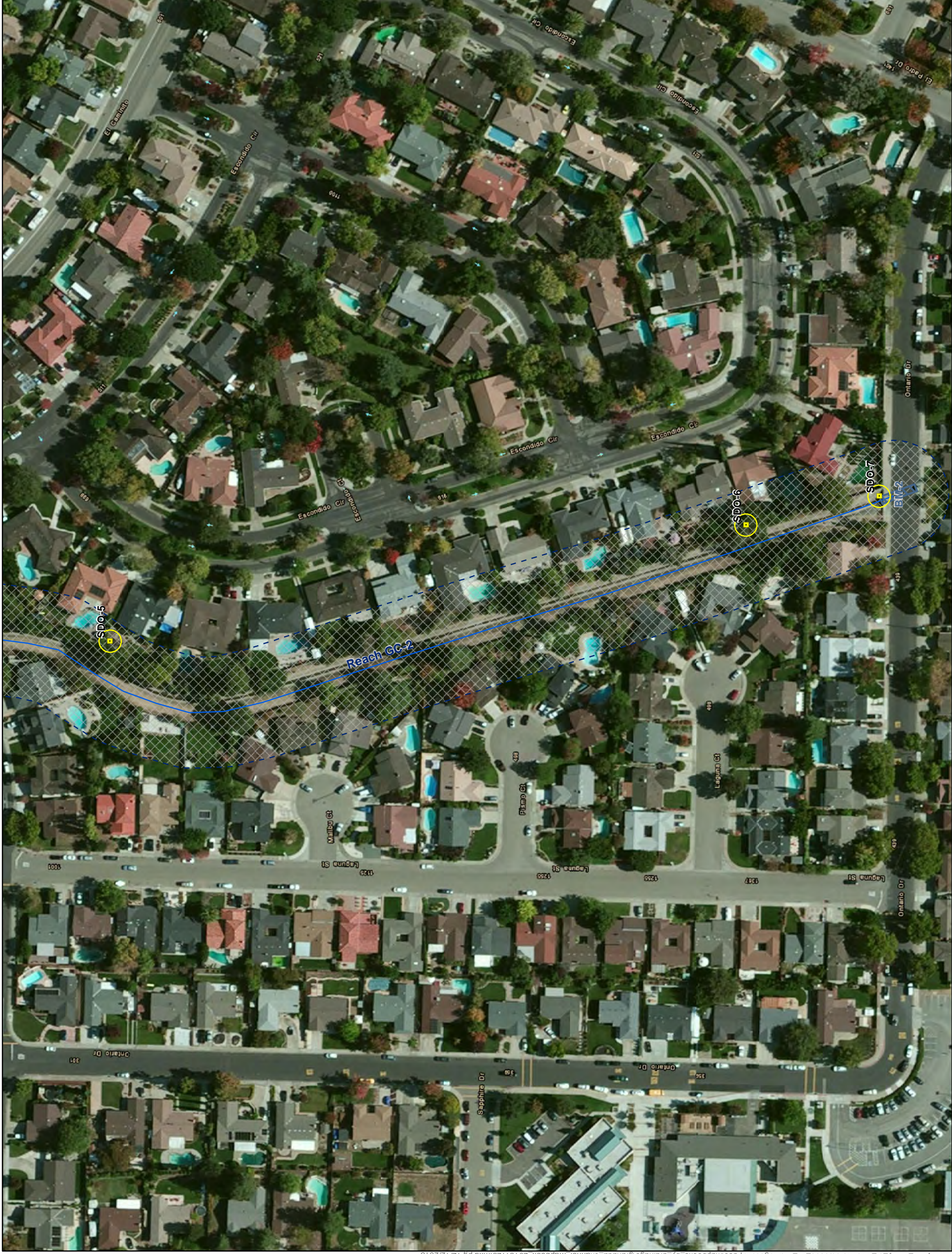
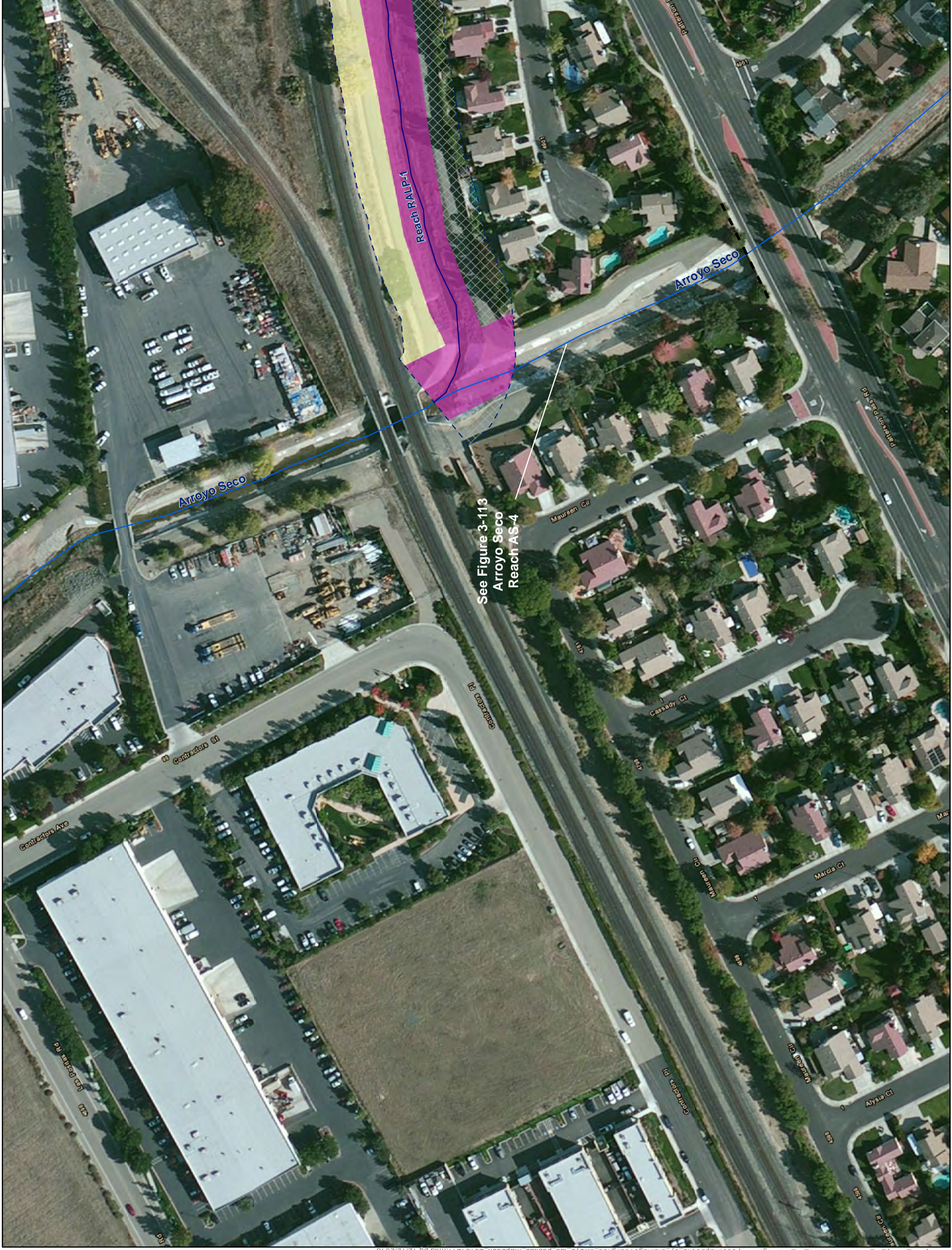


Figure 3-127
Granada Channel
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- California Annual Grassland
 - Golf Course / Urban Park
 - Riverine
 - Ruderal
 - Urban - Suburban



See Figure 3-113
Arroyo Seco
Reach AS-4

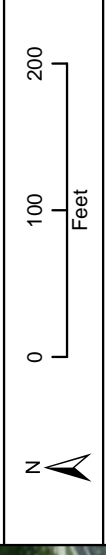
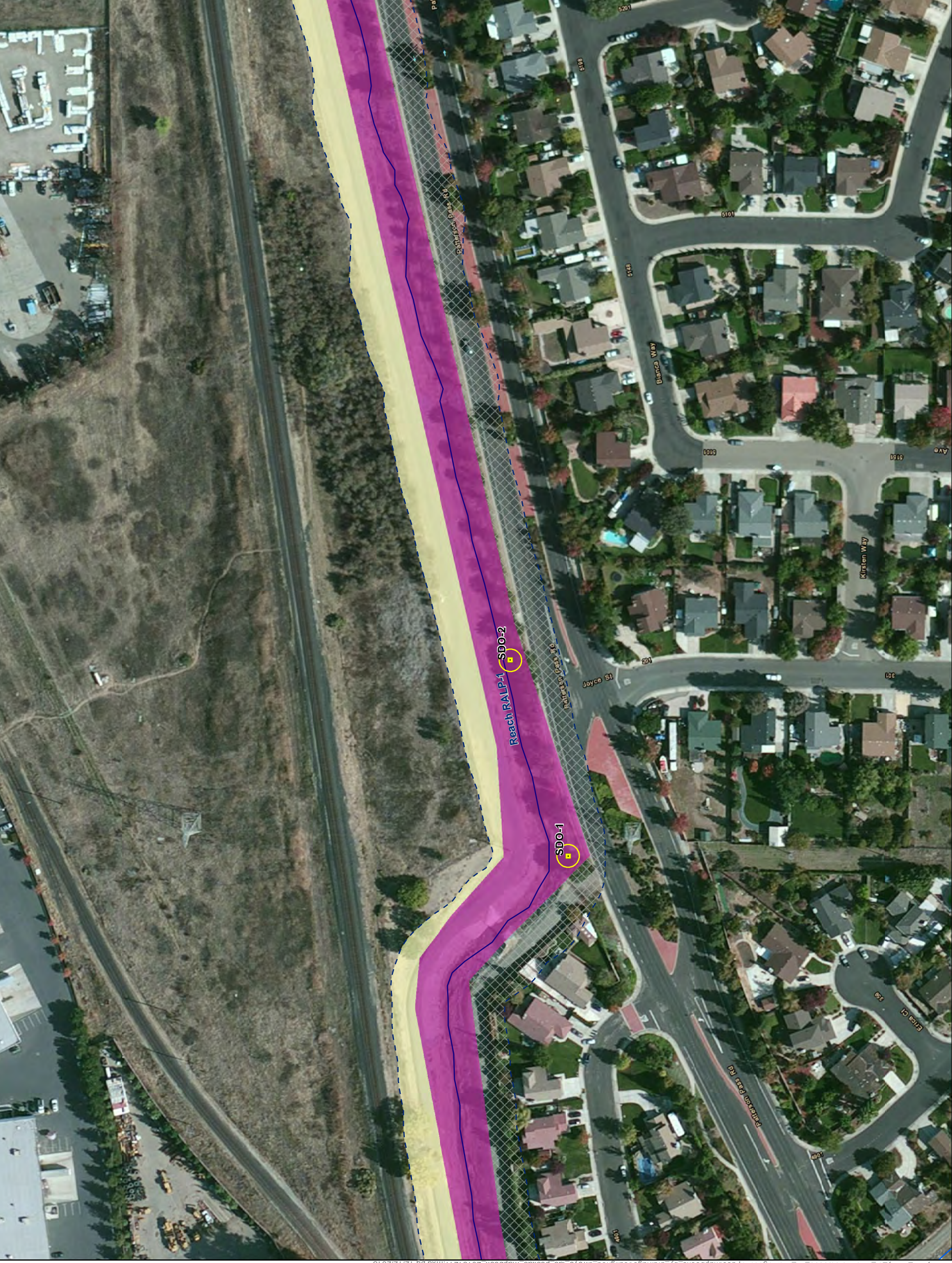


Figure 3-141
Realigned Arroyo Las Positas
Page 1 of 11



**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- California Annual Grassland
 - Golf Course / Urban Park
 - Riverine
 - Ruderal
 - Urban - Suburban



Figure 3-140
Realigned Arroyo Las Positas
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- California Annual Grassland
 - Golf Course / Urban Park
 - Riverine
 - Ruderal
 - Urban - Suburban



Figure 3-139
Realigned Arroyo Las Positas
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- California Annual Grassland
 - Golf Course / Urban Park
 - Riverine
 - Ruderal
 - Urban - Suburban

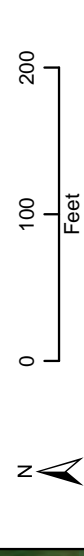


Figure 3-138
Realigned Arroyo Las Positas
Page 4 of 11

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**City of Livermore
Stream Maintenance Program**

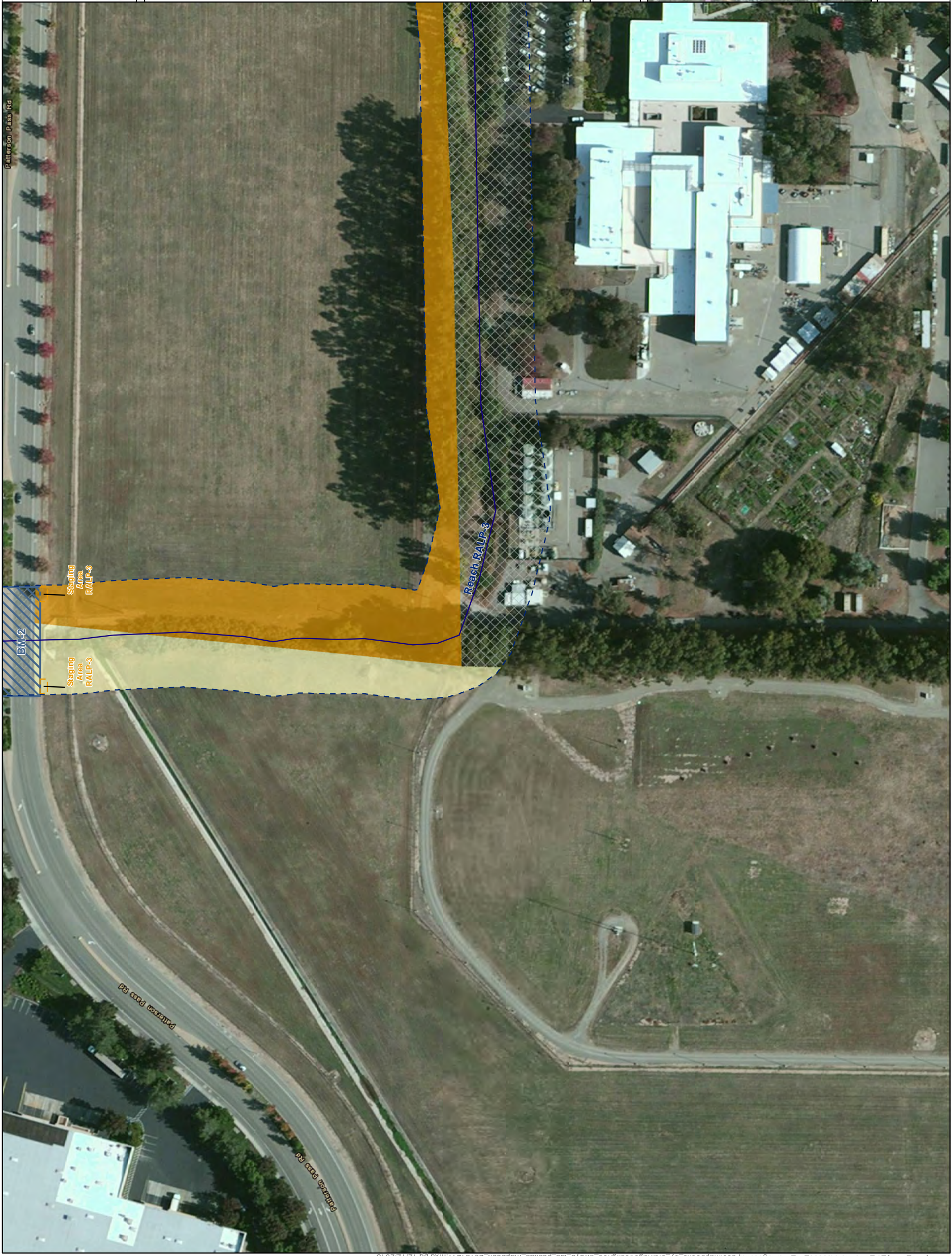


- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- California Annual Grassland
 - Golf Course / Urban Park
 - Riverine
 - Ruderal
 - Urban - Suburban



Figure 3-137
Realigned Arroyo Las Positas
Page 5 of 11

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**City of Livermore
Stream Maintenance Program**

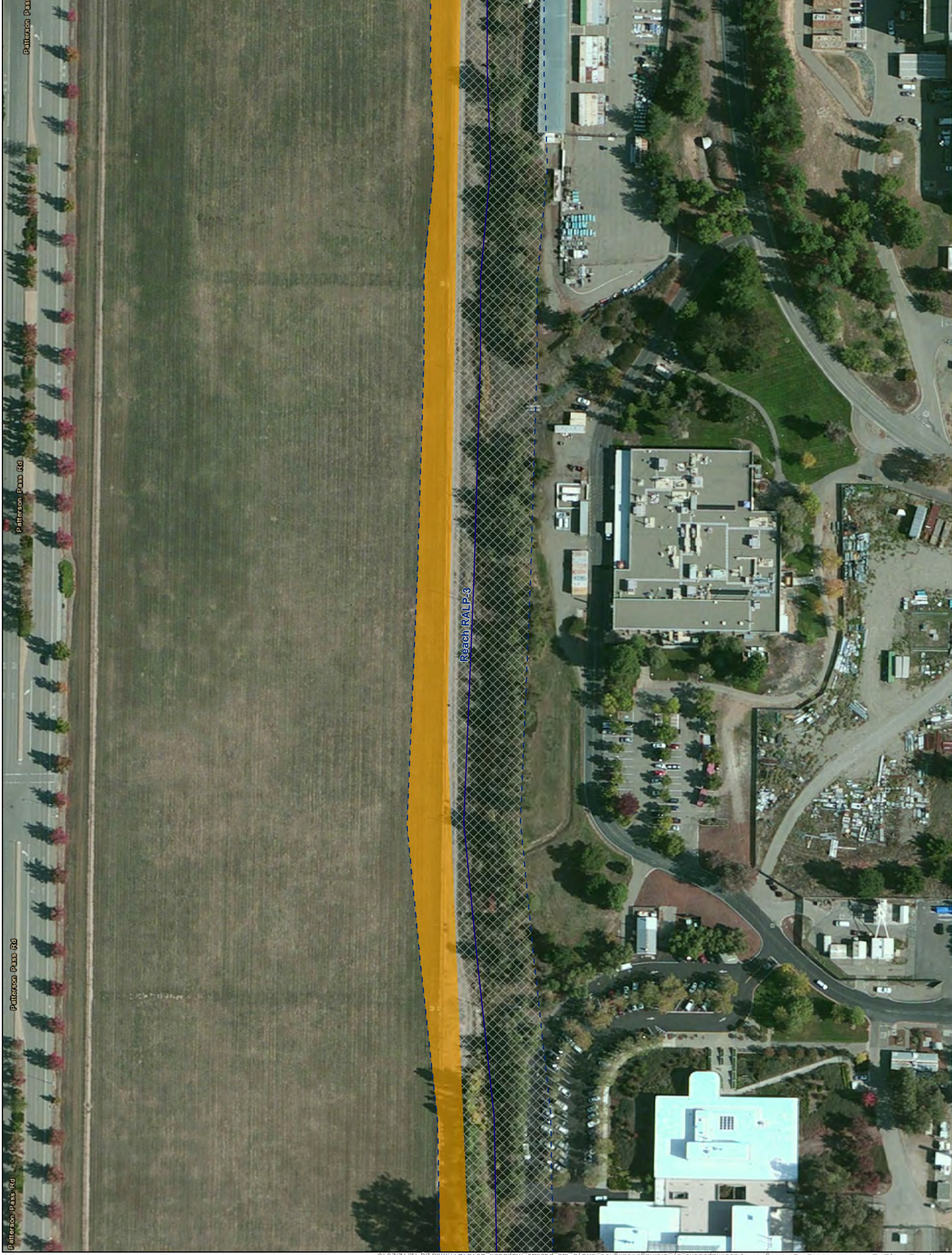


- Stream with Reach ID
 - - - Reach Break
 - - - 75-foot Stream Buffer
 - ⓑ Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- California Annual Grassland
 - Golf Course / Urban Park
 - Riverine
 - Ruderal
 - Urban - Suburban



Figure 3-136
Realigned Arroyo Las Positas
Page 6 of 11

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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- California Annual Grassland
 - Golf Course / Urban Park
 - Riverine
 - Ruderal
 - Urban - Suburban

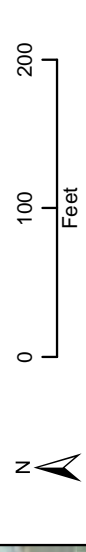
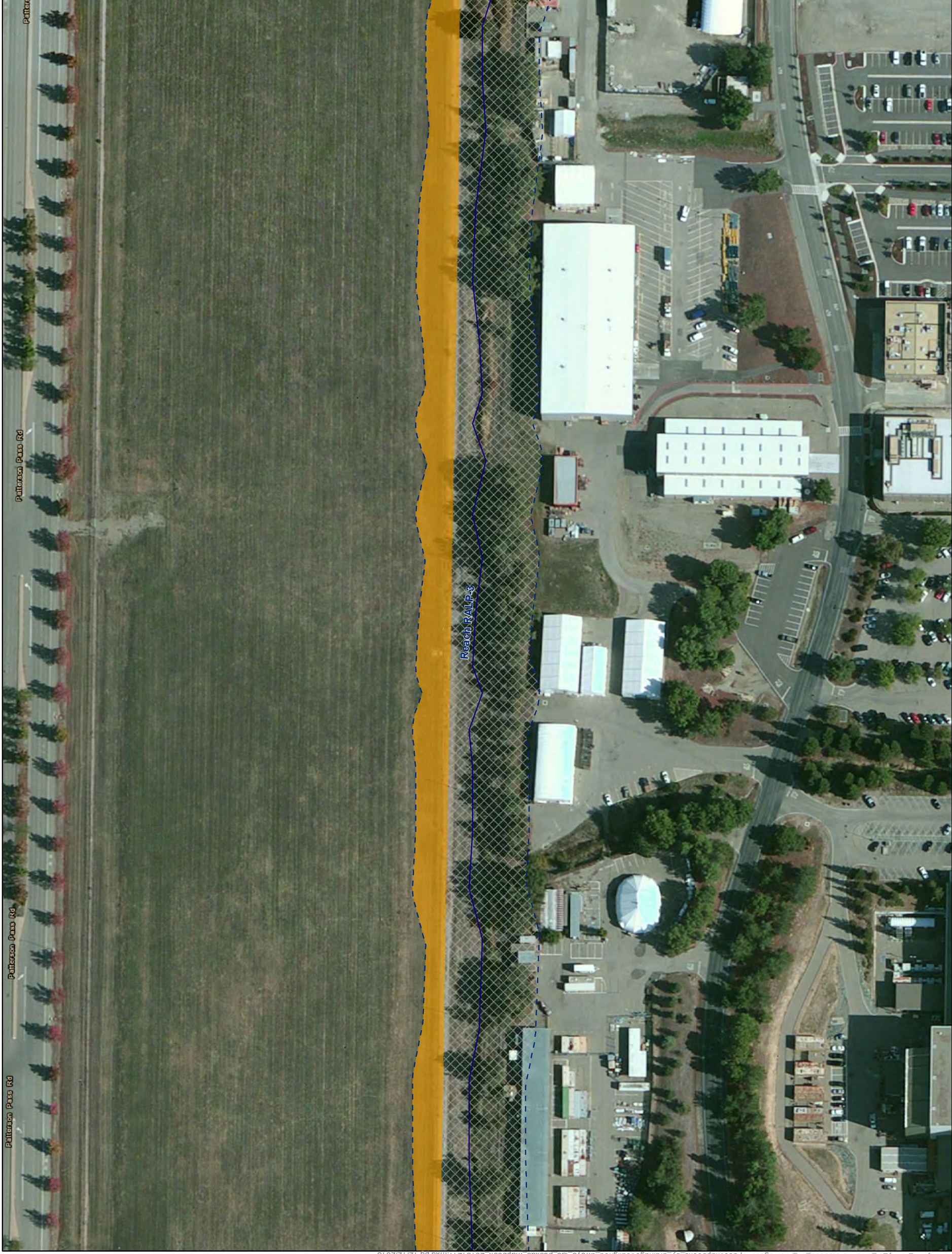


Figure 3-135
Realigned Arroyo Las Positas
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**City of Livermore
Stream Maintenance Program**

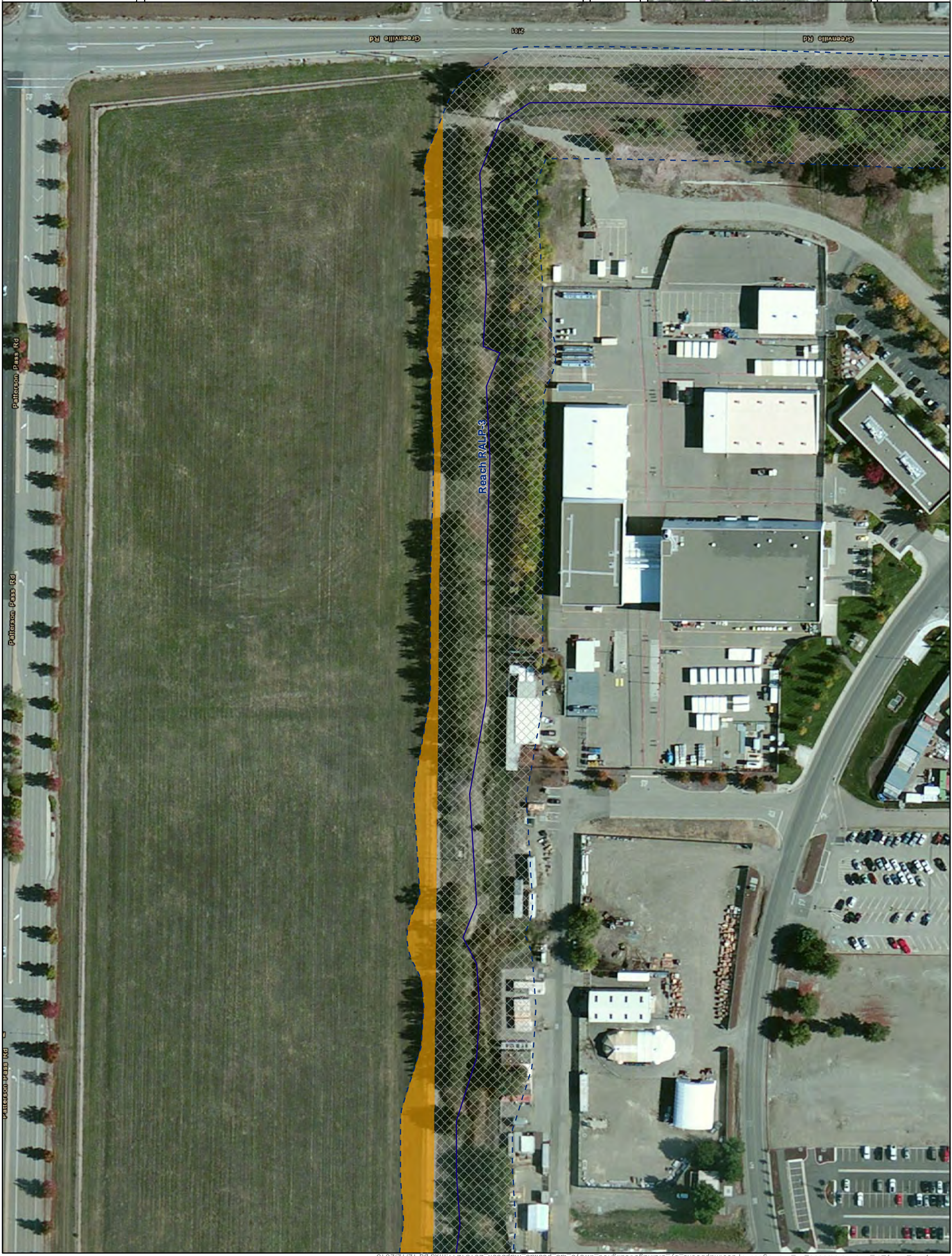


- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- California Annual Grassland
 - Golf Course / Urban Park
 - Riverine
 - Ruderal
 - Urban - Suburban



Figure 3-134
Realigned Arroyo Las Positas
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- California Annual Grassland
 - Golf Course / Urban Park
 - Riverine
 - Ruderal
 - Urban - Suburban

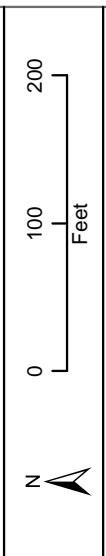


Figure 3-133
Realigned Arroyo Las Positas
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- California Annual Grassland
 - Golf Course / Urban Park
 - Riverine
 - Ruderal
 - Urban - Suburban

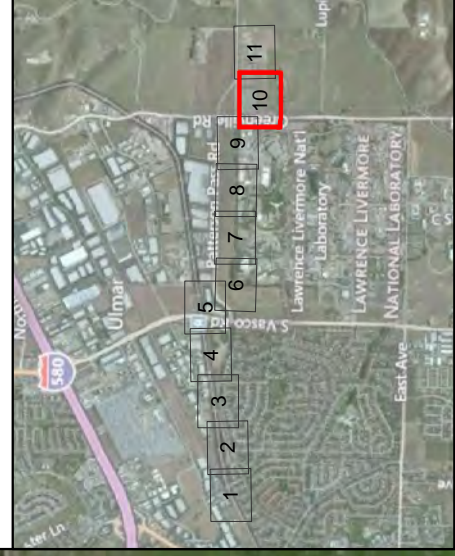
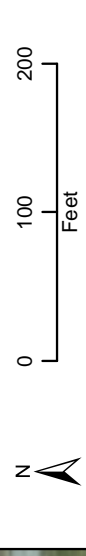


Figure 3-132
Realigned Arroyo Las Positas
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
 - Reach Break
 - 75-foot Stream Buffer
 - Storm Drain Outfall (SDO) Impact Area
- Land Cover**
- California Annual Grassland
 - Golf Course / Urban Park
 - Riverine
 - Ruderal
 - Urban - Suburban

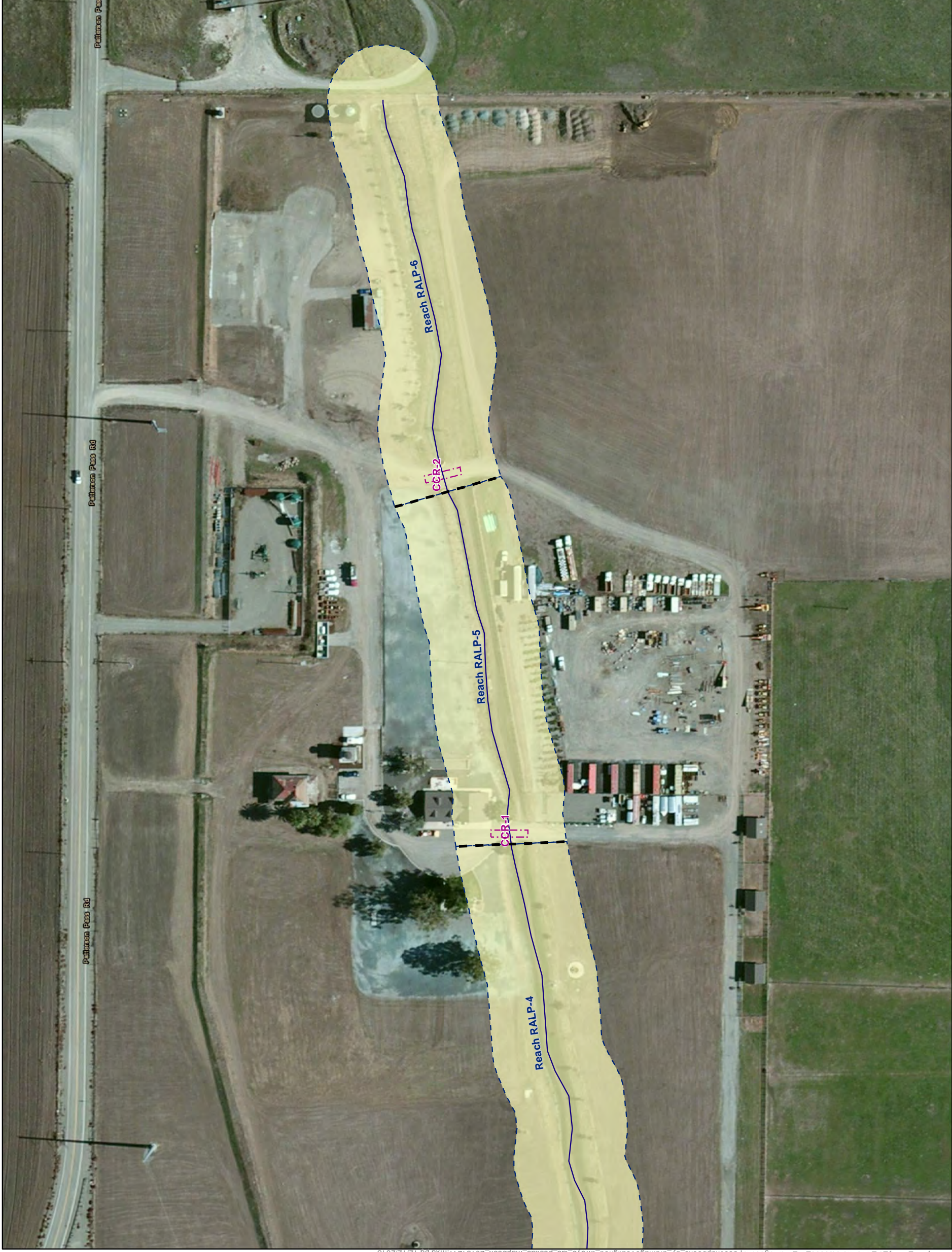









Figure 3-131

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-  Stream with Reach ID
 -  Reach Break
 -  75-foot Stream Buffer
 -  Storm Drain Outfall (SDO) Impact Area
- Land Cover**
-  California Annual Grassland
 -  Mixed Riparian Forest and Woodland
 -  Seasonal Wetland

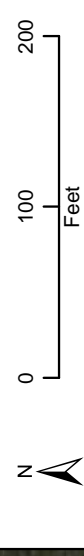


Figure 3-142
Cottonwood Creek
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**City of Livermore
Stream Maintenance Program**



- Stream with Reach ID
- Reach Break
- 75-foot Stream Buffer
- Storm Drain Outfall (SDO) Impact Area

- Land Cover**
- Ruderal
 - Urban - Suburban

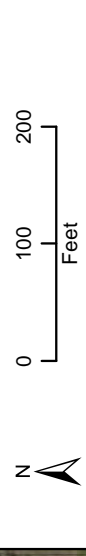
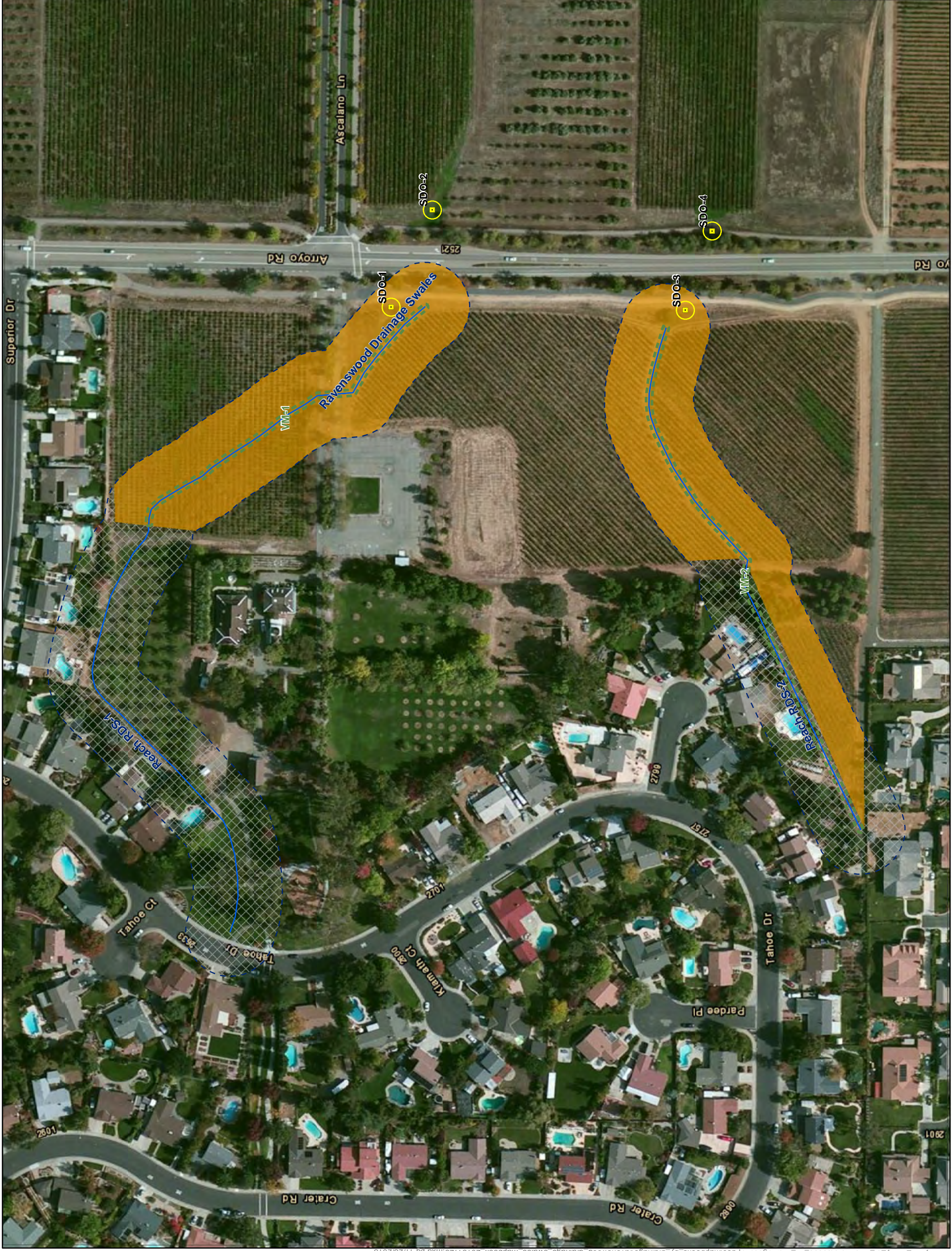






Figure 3-143
Ravenswood Drainage Swales
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-  Basin
-  Reach Break
-  75-foot Basin Buffer
-  Storm Drain Outfall (SDO) Impact Area

Land Cover

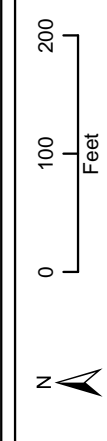
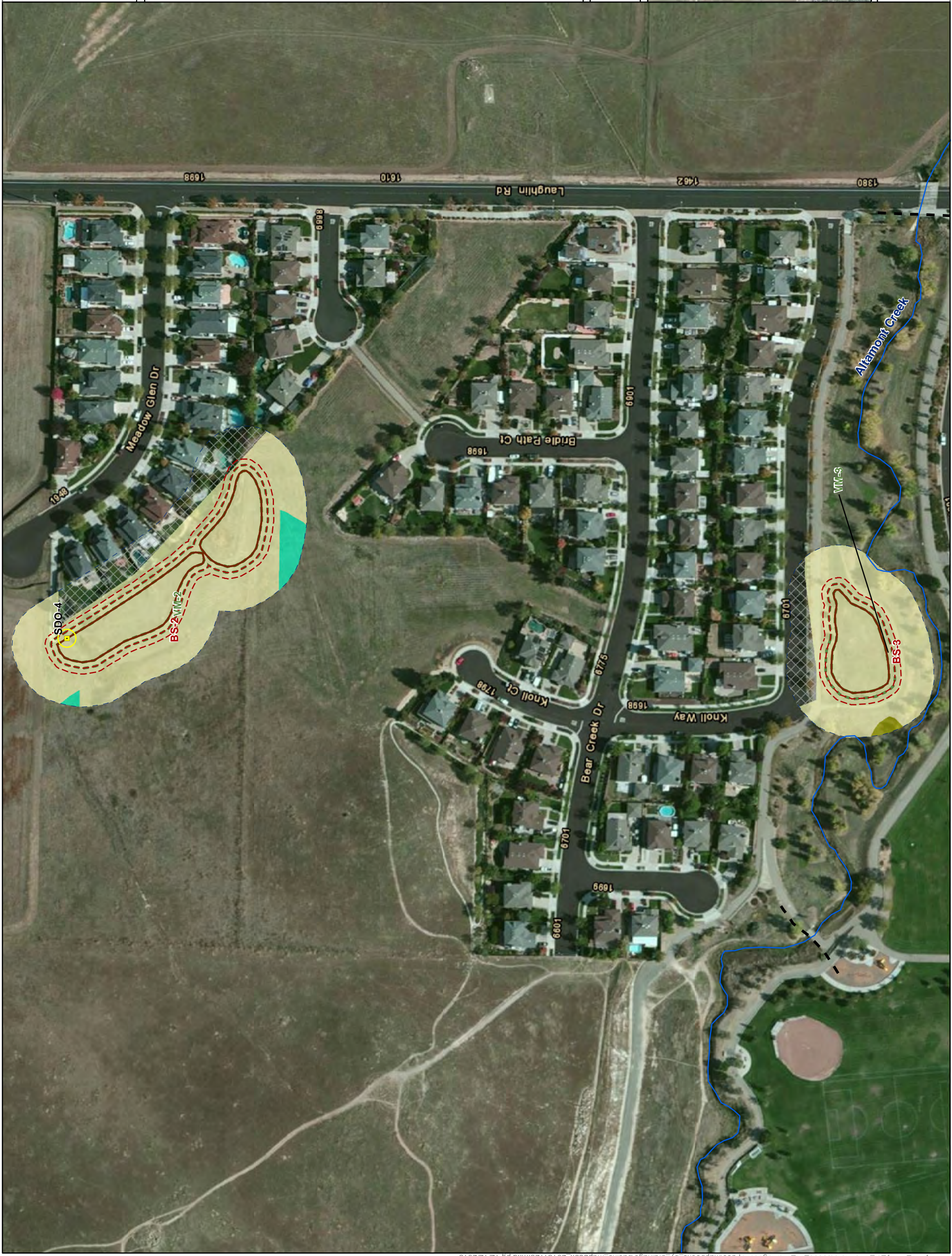






Figure 3-145
Bear Creek Basins
Page 1 of 2



-  Basin
-  Reach Break
-  75-foot Basin Buffer
-  Storm Drain Outfall (SDO) Impact Area

Land Cover

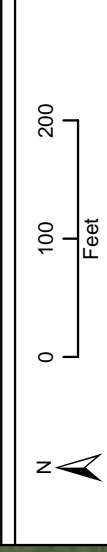


Figure 3-144
Bear Creek Basins
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