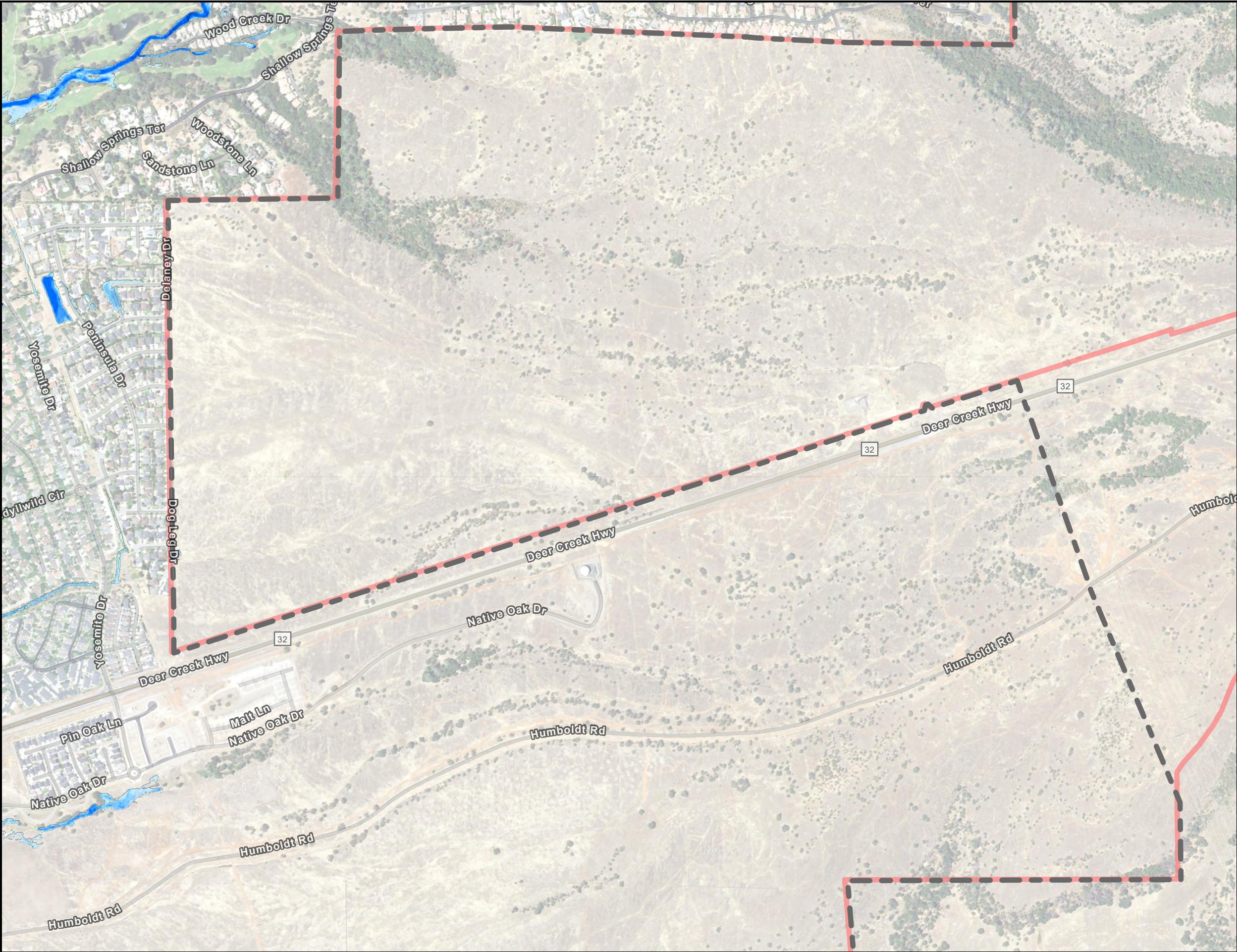
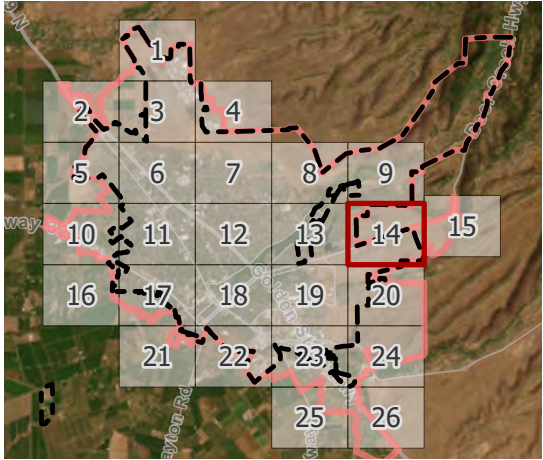
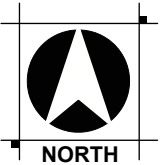




**2-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Condition
- Lack of Curb and Gutter
 - Lack of Gutter
 - Detention Basins
 - 1D Modeled Channel
 - Chico City Limits
 - Sphere of Influence
- 2-Year Model Results
- 0.25 foot - 1 foot
 - 1 foot - 2 feet
 - 2 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 7 feet
 - 7 feet - 10 feet
 - Greater than 10 feet

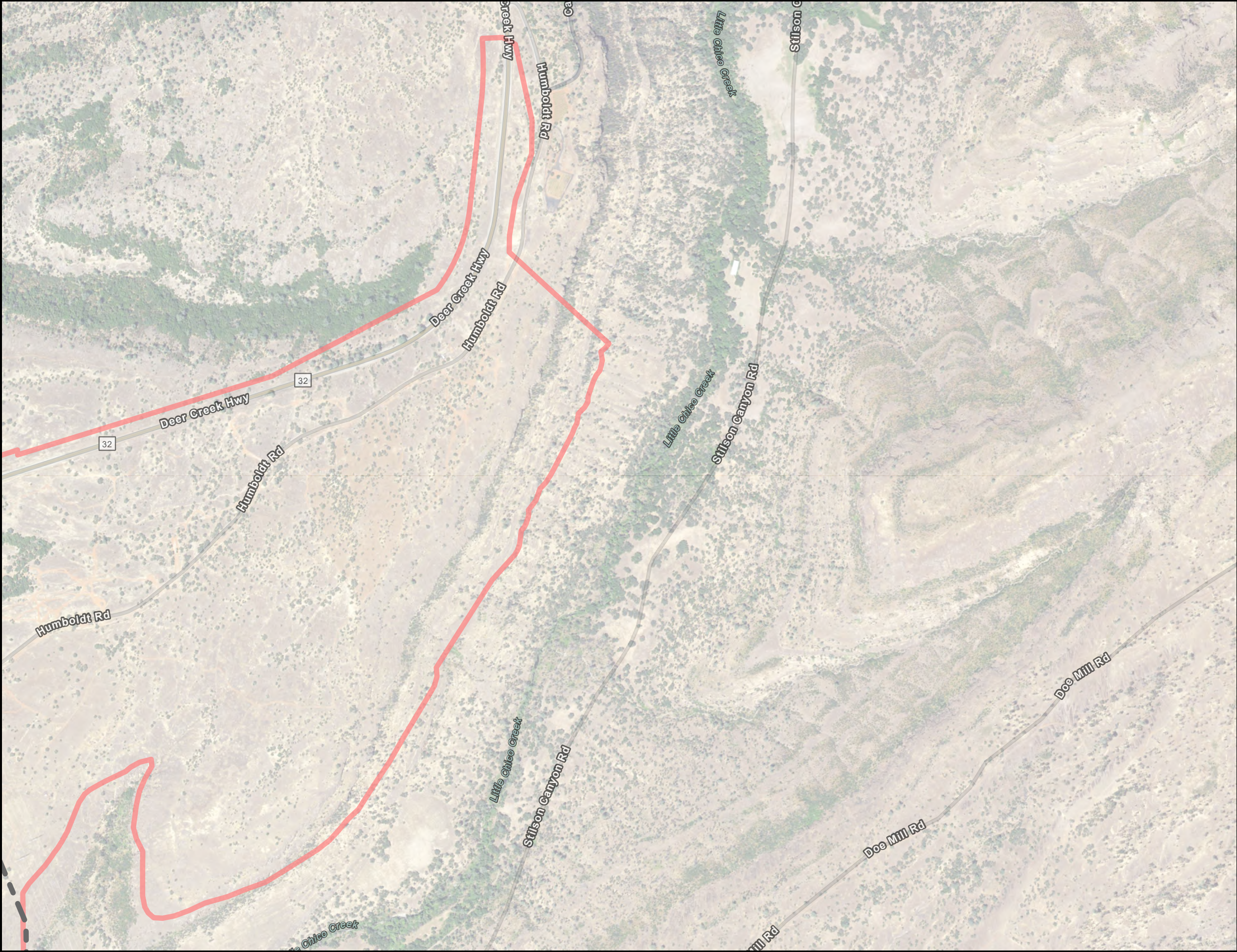
Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on 10-year flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

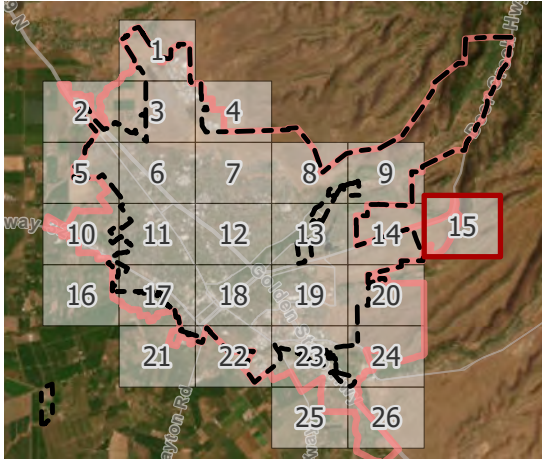
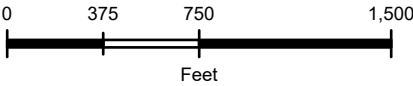
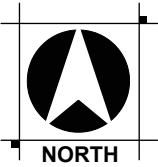
FIGURE 24-14



**2-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Condition
- Lack of Curb and Gutter
 - Lack of Gutter
 - Detention Basins
 - 1D Modeled Channel
 - Chico City Limits
 - Sphere of Influence
- 2-Year Model Results
- 0.25 foot - 1 foot
 - 1 foot - 2 feet
 - 2 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 7 feet
 - 7 feet - 10 feet
 - Greater than 10 feet

Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on 10-year flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

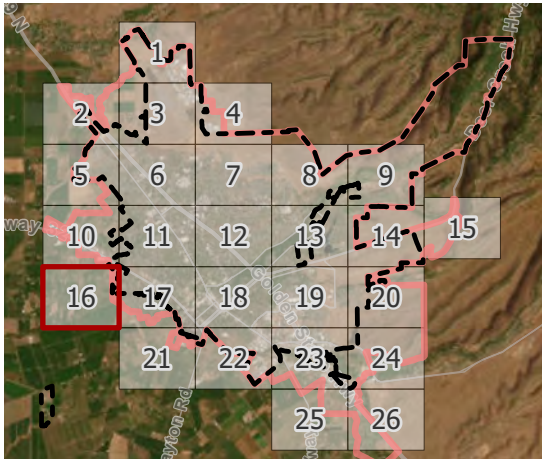
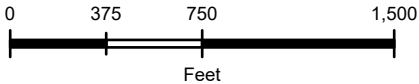
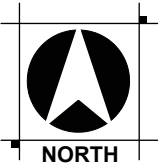
FIGURE 24-15



**2-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Condition
- Lack of Curb and Gutter
 - Lack of Gutter
 - Detention Basins
 - 1D Modeled Channel
 - Chico City Limits
 - Sphere of Influence
- 2-Year Model Results
- 0.25 foot - 1 foot
 - 1 foot - 2 feet
 - 2 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 7 feet
 - 7 feet - 10 feet
 - Greater than 10 feet

Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on 10-year flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

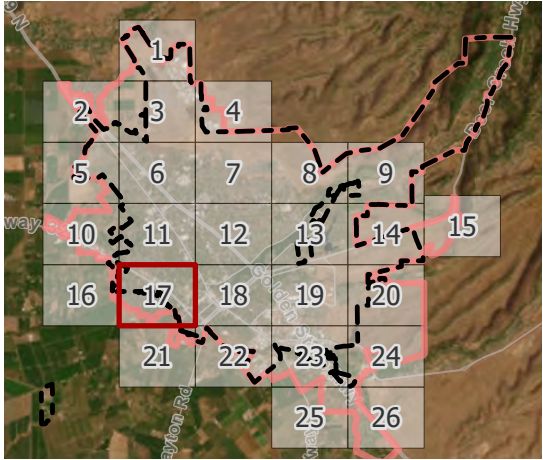
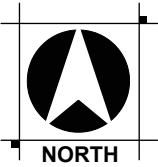
FIGURE 24-16



**2-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Condition
- Lack of Curb and Gutter
 - Lack of Gutter
 - Detention Basins
 - 1D Modeled Channel
 - Chico City Limits
 - Sphere of Influence
- 2-Year Model Results
- 0.25 foot - 1 foot
 - 1 foot - 2 feet
 - 2 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 7 feet
 - 7 feet - 10 feet
 - Greater than 10 feet

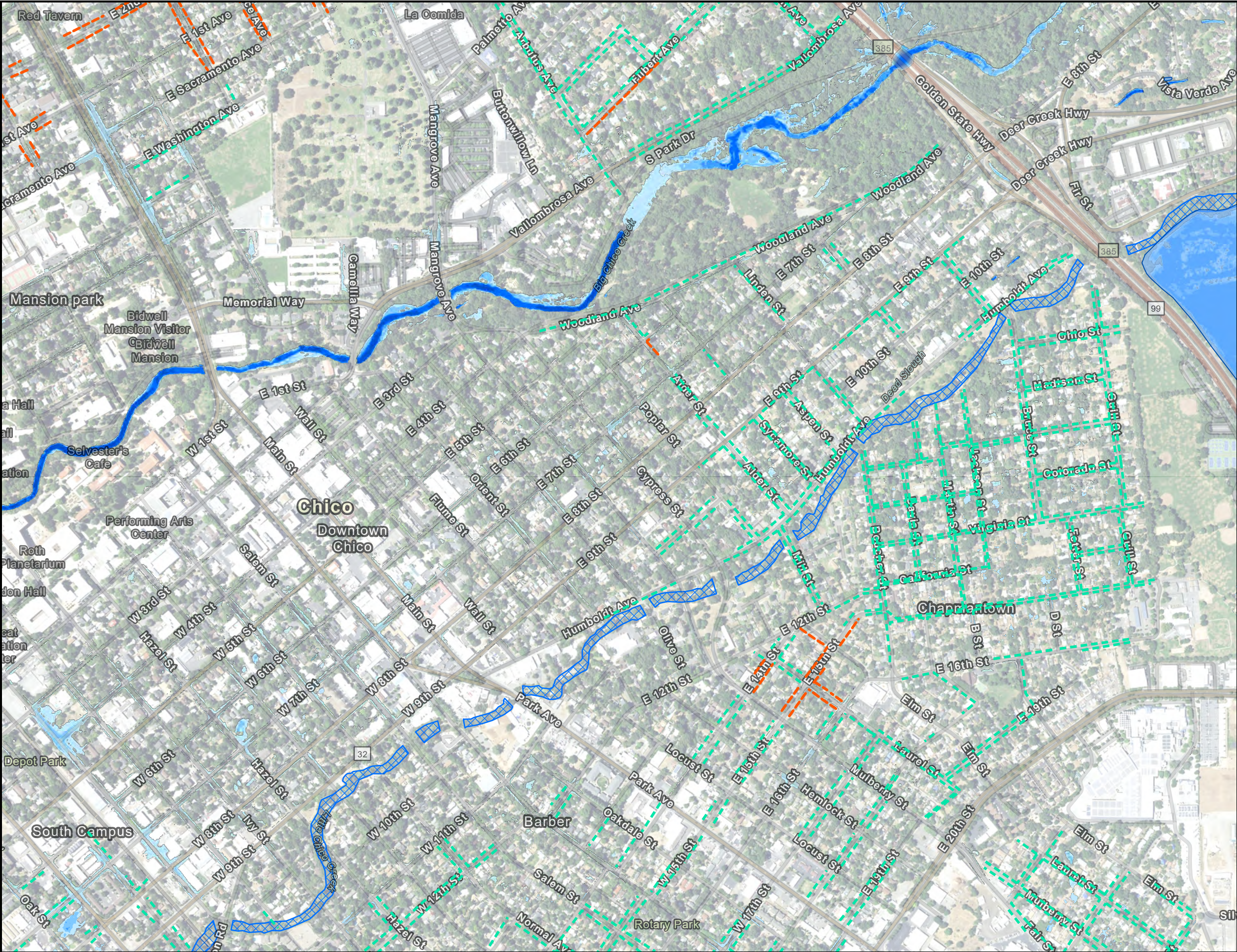
Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on 10-year flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

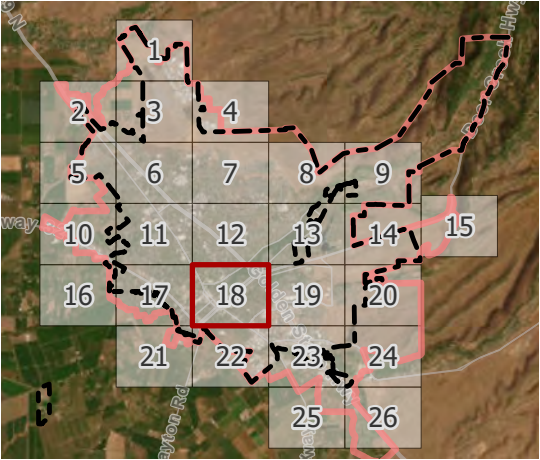
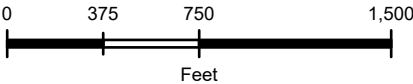
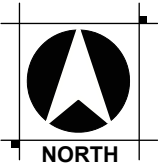
FIGURE 24-17



**2-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Condition
- Lack of Curb and Gutter
 - Lack of Gutter
 - Detention Basins
 - 1D Modeled Channel
 - Chico City Limits
 - Sphere of Influence
- 2-Year Model Results
- 0.25 foot - 1 foot
 - 1 foot - 2 feet
 - 2 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 7 feet
 - 7 feet - 10 feet
 - Greater than 10 feet

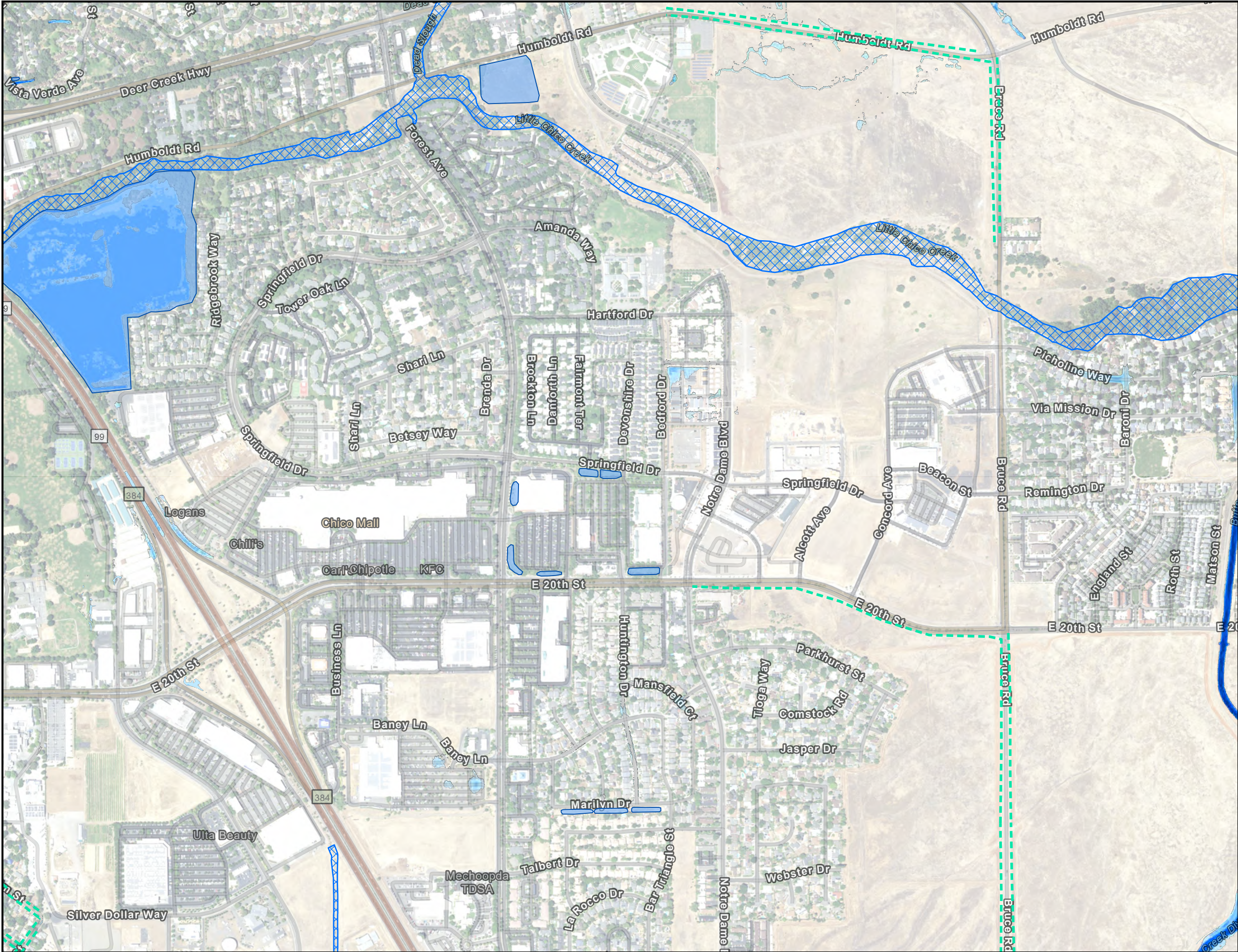
Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



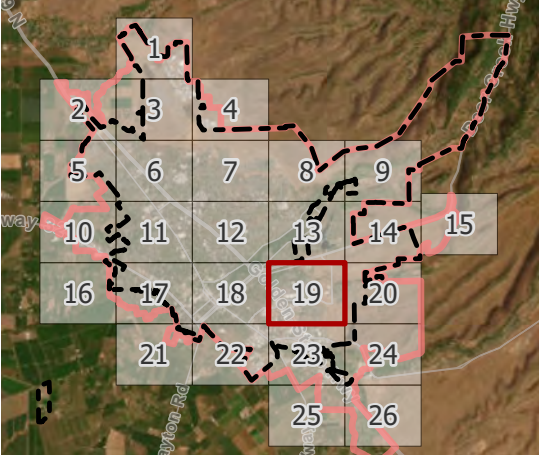
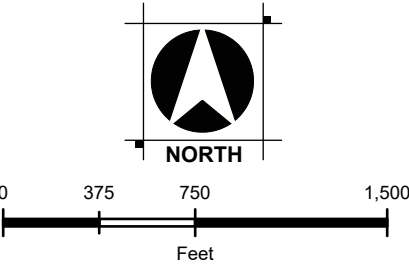
NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on 10-year flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

FIGURE 24-18



**2-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**
STORM WATER MASTER PLAN
CITY OF CHICO
DECEMBER 2024



- Condition
- Lack of Curb and Gutter
 - Lack of Gutter
 - Detention Basins
 - 1D Modeled Channel
 - Chico City Limits
 - Sphere of Influence
- 2-Year Model Results
- 0.25 foot - 1 foot
 - 1 foot - 2 feet
 - 2 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 7 feet
 - 7 feet - 10 feet
 - Greater than 10 feet

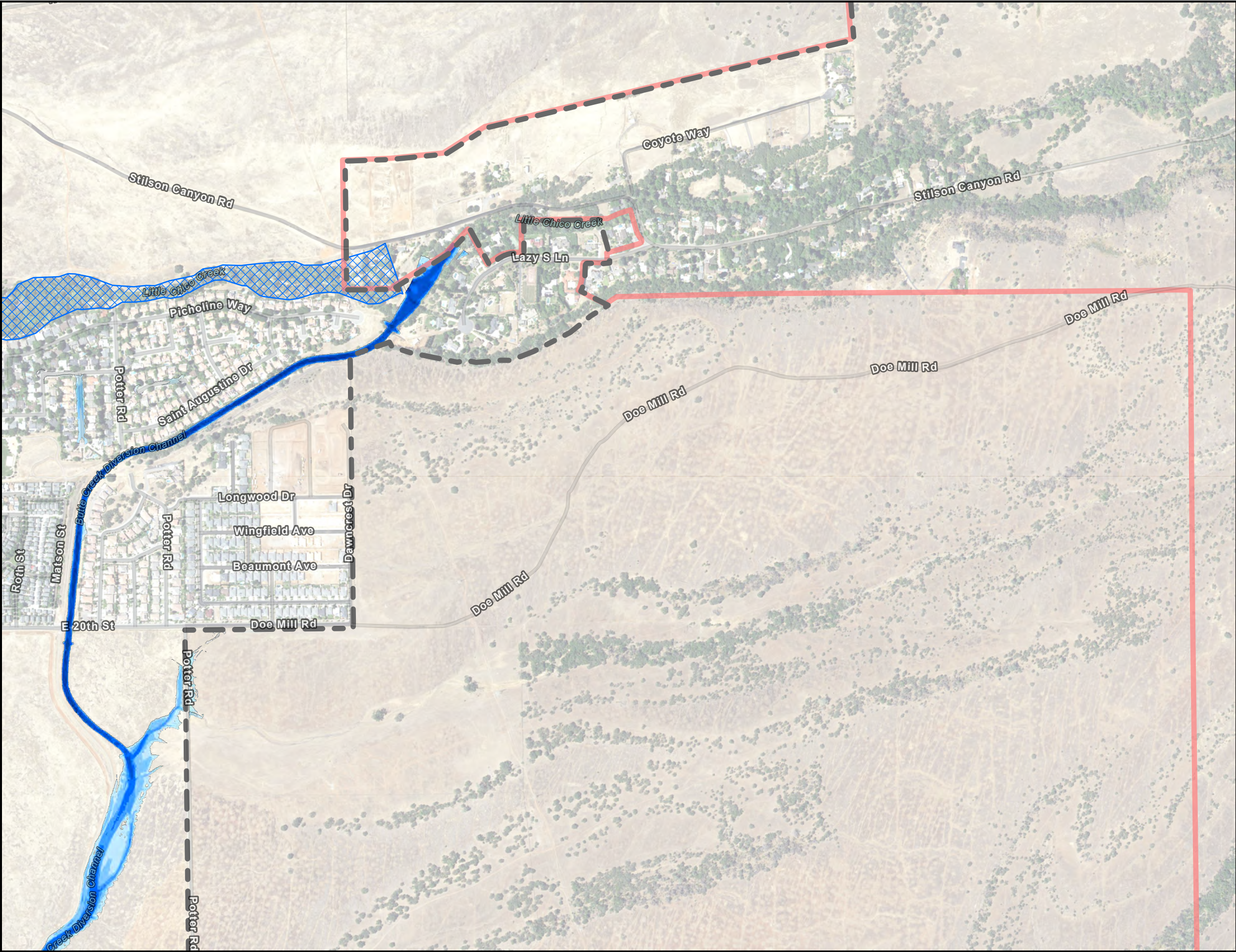
Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on 10-year flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

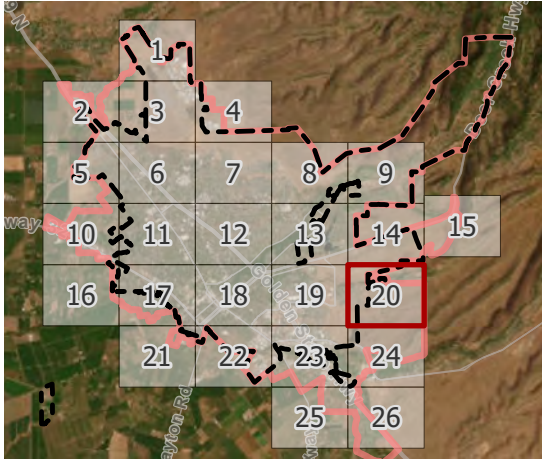
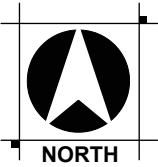
FIGURE 24-19



2-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Condition
- Lack of Curb and Gutter
 - Lack of Gutter
 - Detention Basins
 - 1D Modeled Channel
 - Chico City Limits
 - Sphere of Influence
- 2-Year Model Results
- 0.25 foot - 1 foot
 - 1 foot - 2 feet
 - 2 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 7 feet
 - 7 feet - 10 feet
 - Greater than 10 feet

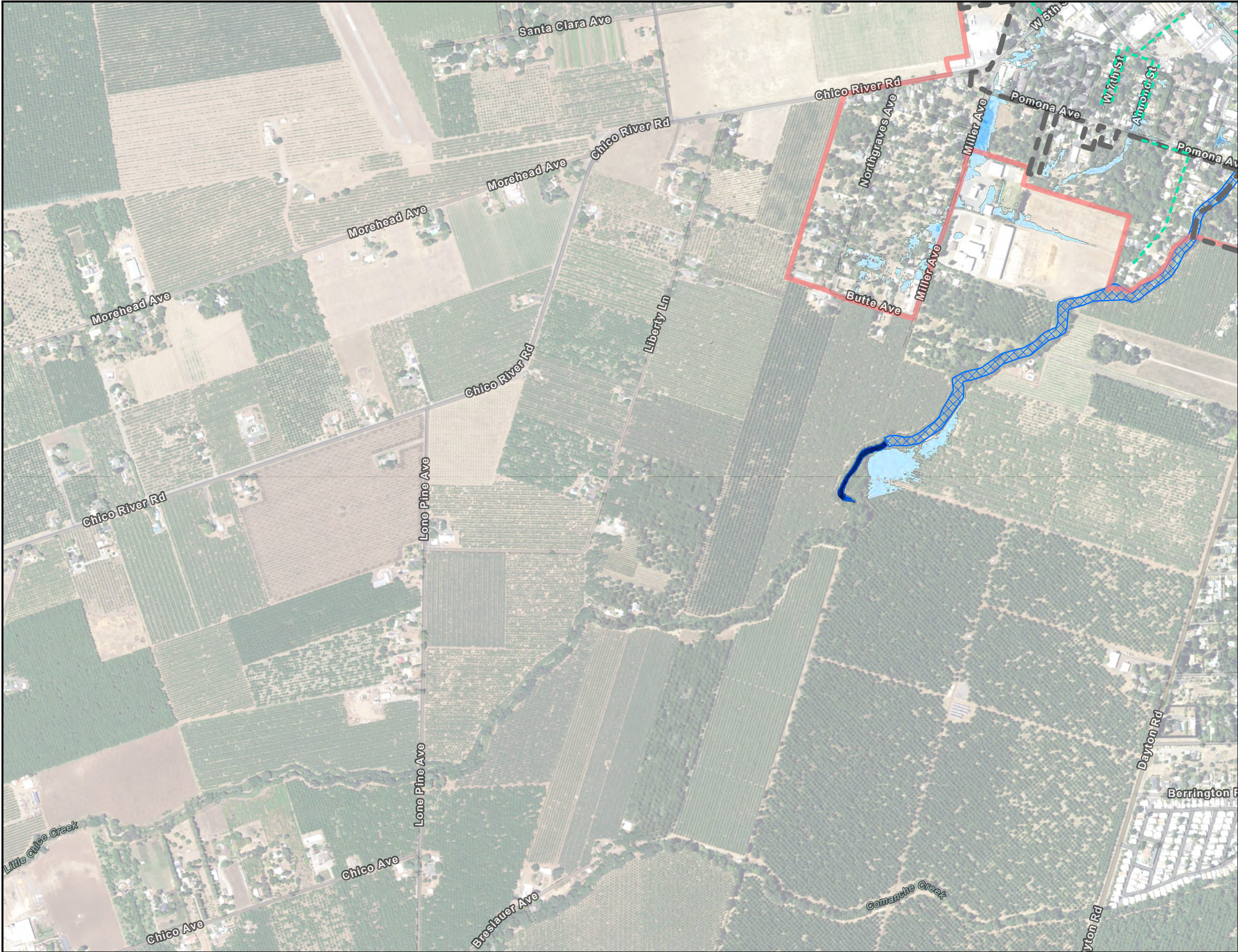
Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on 10-year flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

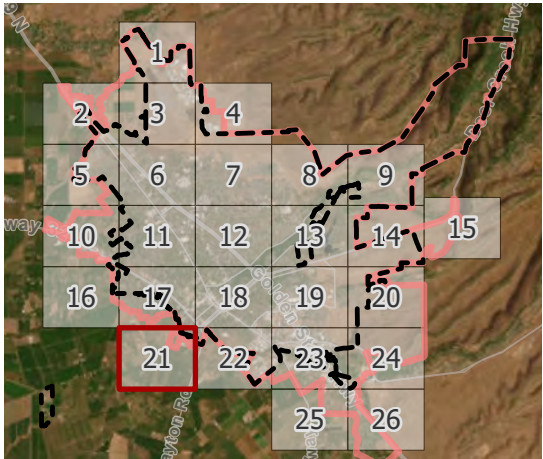
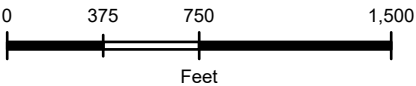
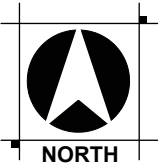
FIGURE 24-20



2-YEAR FLOODING FROM EXISTING DRAINAGE SYSTEM MODEL RESULTS

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Condition
- Lack of Curb and Gutter
 - Lack of Gutter
 - Detention Basins
 - 1D Modeled Channel
 - Chico City Limits
 - Sphere of Influence
- 2-Year Model Results
- 0.25 foot - 1 foot
 - 1 foot - 2 feet
 - 2 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 7 feet
 - 7 feet - 10 feet
 - Greater than 10 feet

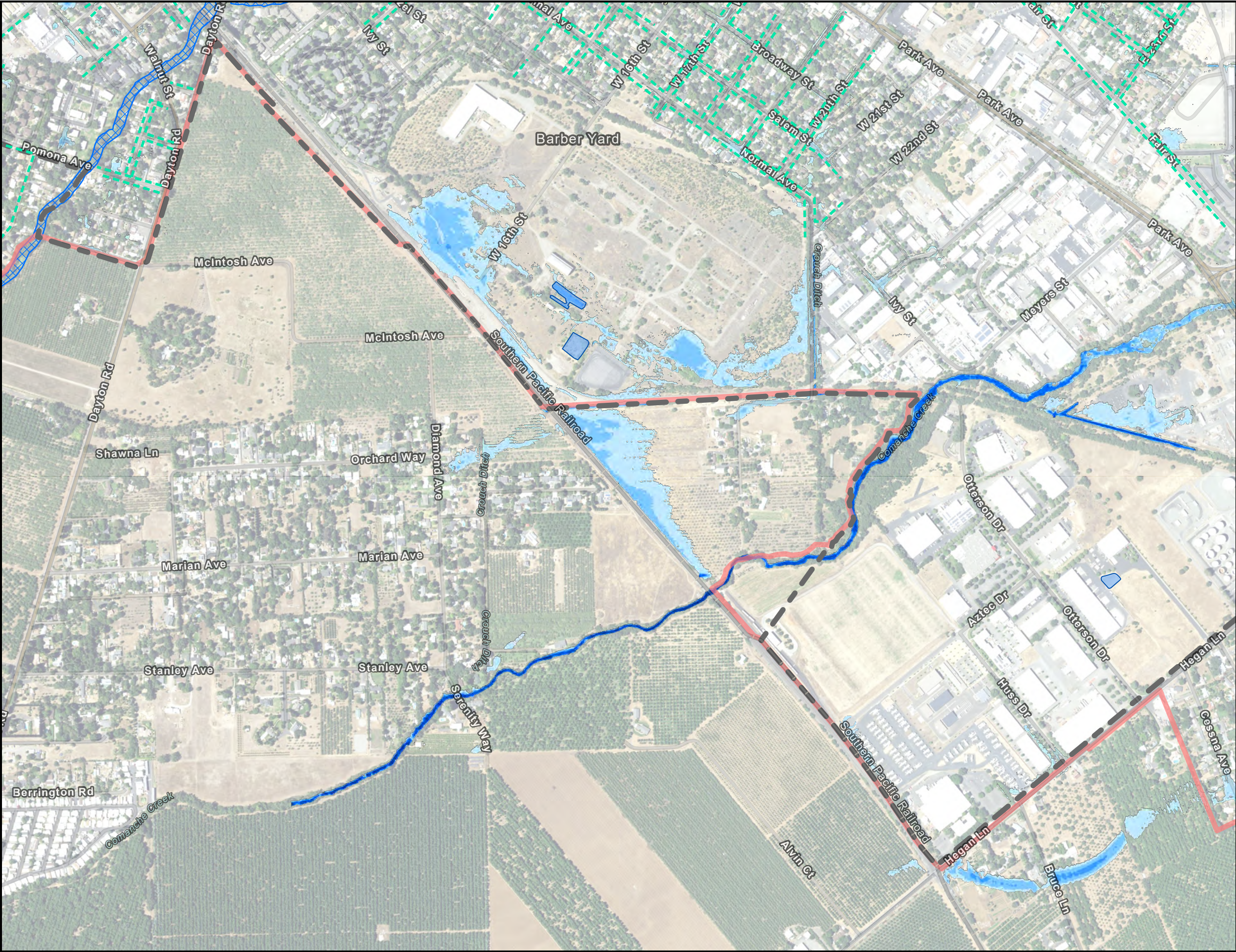
Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on 10-year flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

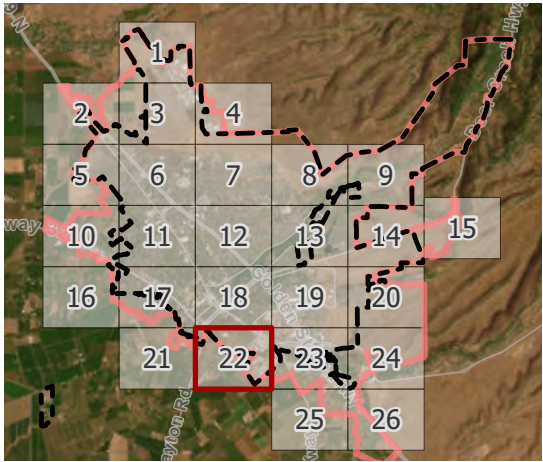
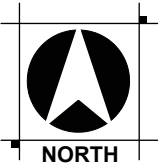
FIGURE 24-21



2-YEAR FLOODING FROM EXISTING DRAINAGE SYSTEM MODEL RESULTS

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Condition
- Lack of Curb and Gutter
 - Lack of Gutter
 - Detention Basins
 - 1D Modeled Channel
 - Chico City Limits
 - Sphere of Influence
- 2-Year Model Results
- 0.25 foot - 1 foot
 - 1 foot - 2 feet
 - 2 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 7 feet
 - 7 feet - 10 feet
 - Greater than 10 feet

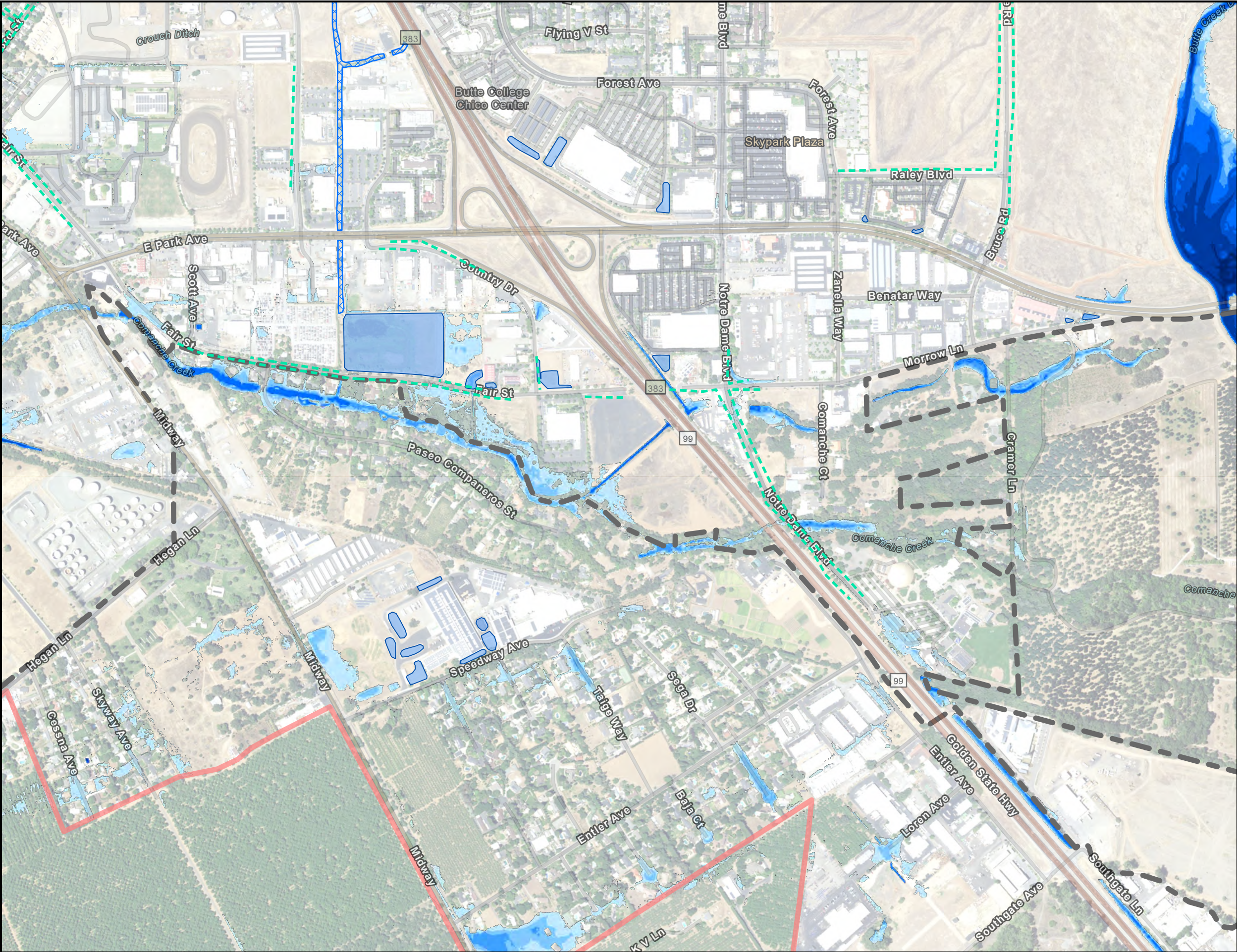
Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

- The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
- Flooding along streams is shown based on 10-year flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

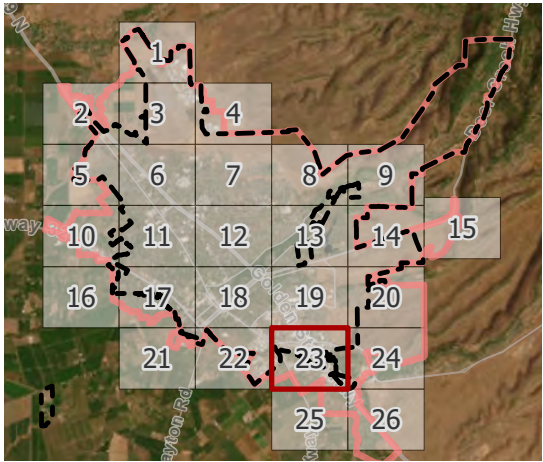
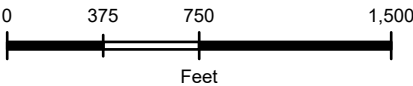
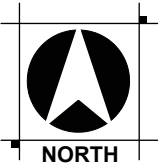
FIGURE 24-22



**2-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Condition
- Lack of Curb and Gutter
 - Lack of Gutter
 - Detention Basins
 - 1D Modeled Channel
 - Chico City Limits
 - Sphere of Influence
- 2-Year Model Results
- 0.25 foot - 1 foot
 - 1 foot - 2 feet
 - 2 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 7 feet
 - 7 feet - 10 feet
 - Greater than 10 feet

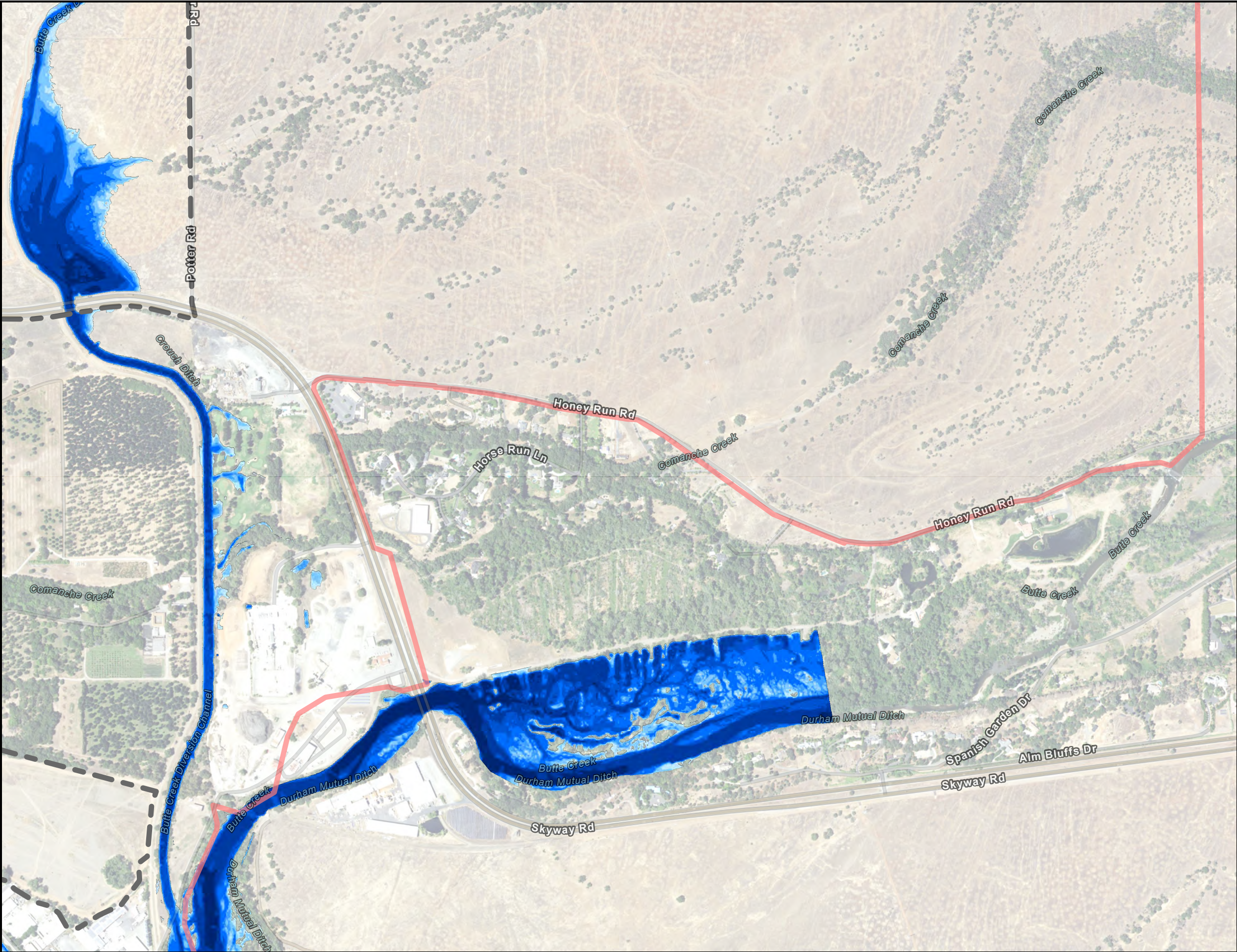
Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

- The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
- Flooding along streams is shown based on 10-year flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

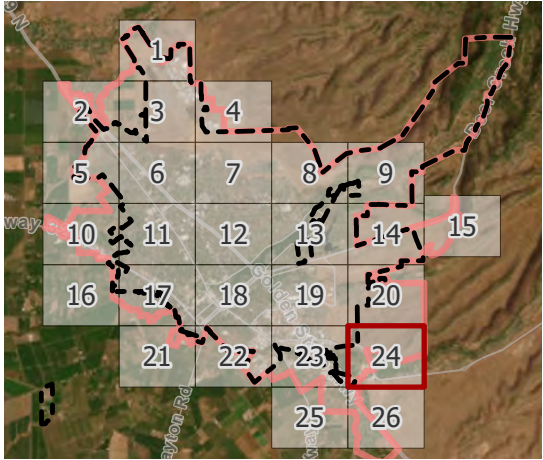
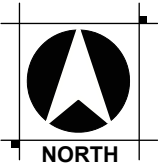
FIGURE 24-23



**2-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Condition
- Lack of Curb and Gutter
 - Lack of Gutter
 - Detention Basins
 - 1D Modeled Channel
 - Chico City Limits
 - Sphere of Influence
- 2-Year Model Results
- 0.25 foot - 1 foot
 - 1 foot - 2 feet
 - 2 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 7 feet
 - 7 feet - 10 feet
 - Greater than 10 feet

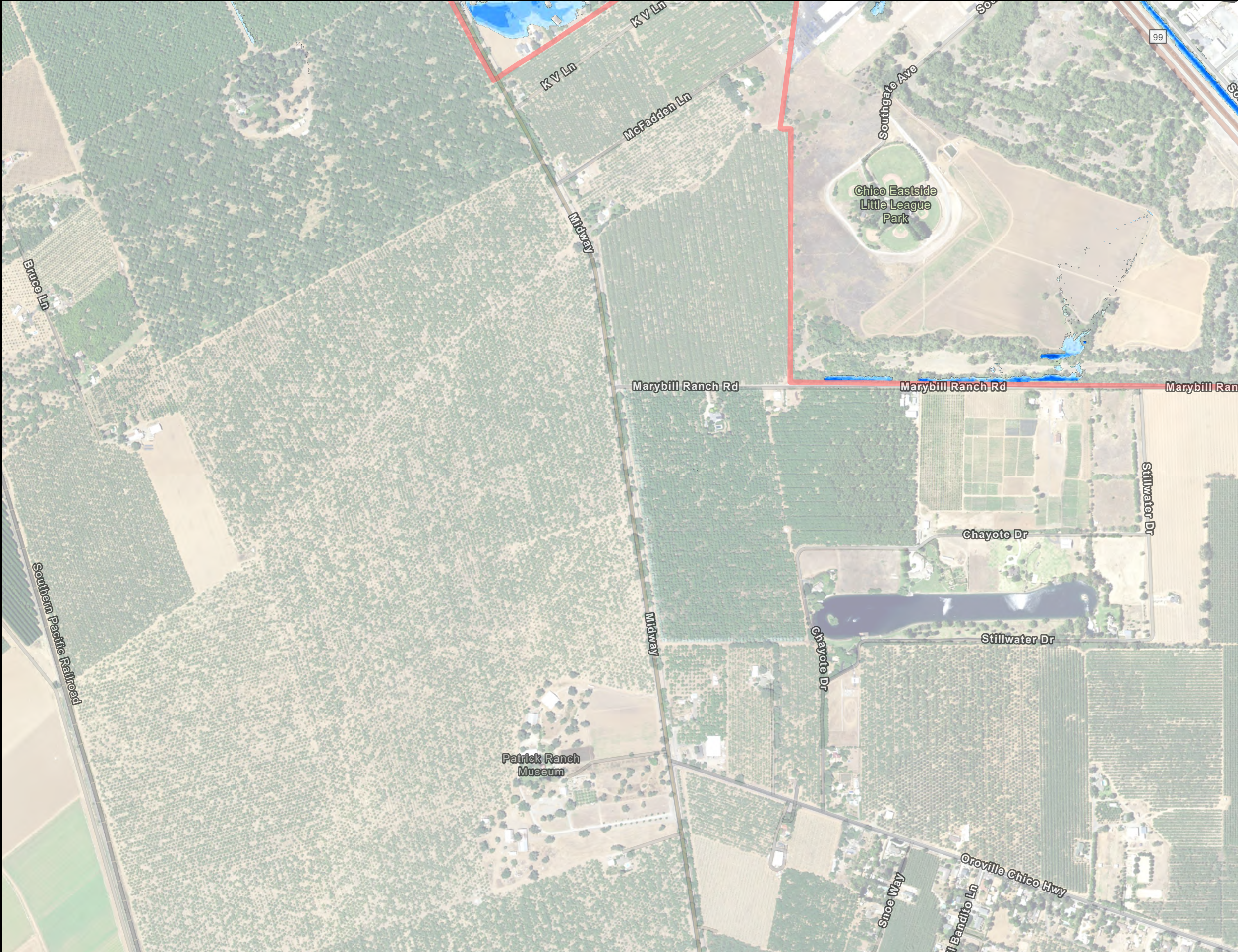
Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on 10-year flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

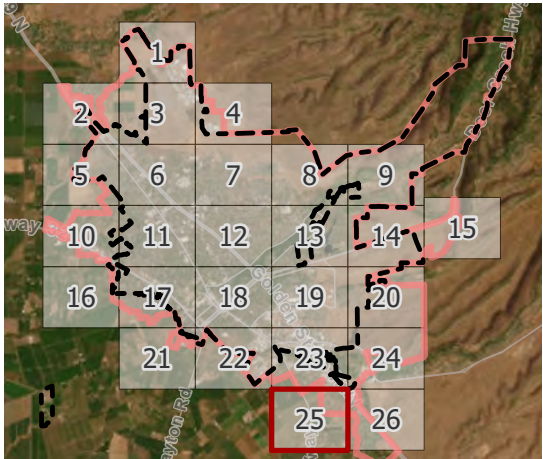
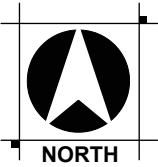
FIGURE 24-24



**2-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Condition
- Lack of Curb and Gutter
 - Lack of Gutter
 - Detention Basins
 - 1D Modeled Channel
 - Chico City Limits
 - Sphere of Influence
- 2-Year Model Results
- 0.25 foot - 1 foot
 - 1 foot - 2 feet
 - 2 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 7 feet
 - 7 feet - 10 feet
 - Greater than 10 feet

Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on 10-year flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

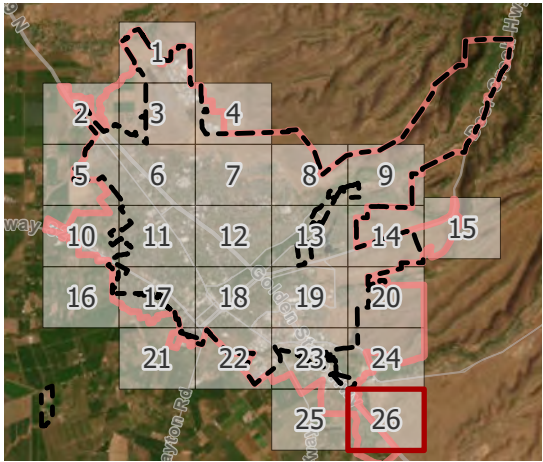
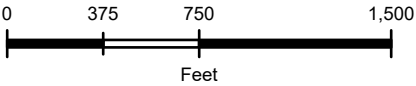
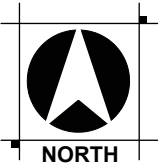
FIGURE 24-25



**2-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Condition
- Lack of Curb and Gutter
 - Lack of Gutter
 - Detention Basins
 - 1D Modeled Channel
 - Chico City Limits
 - Sphere of Influence
- 2-Year Model Results
- 0.25 foot - 1 foot
 - 1 foot - 2 feet
 - 2 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 7 feet
 - 7 feet - 10 feet
 - Greater than 10 feet

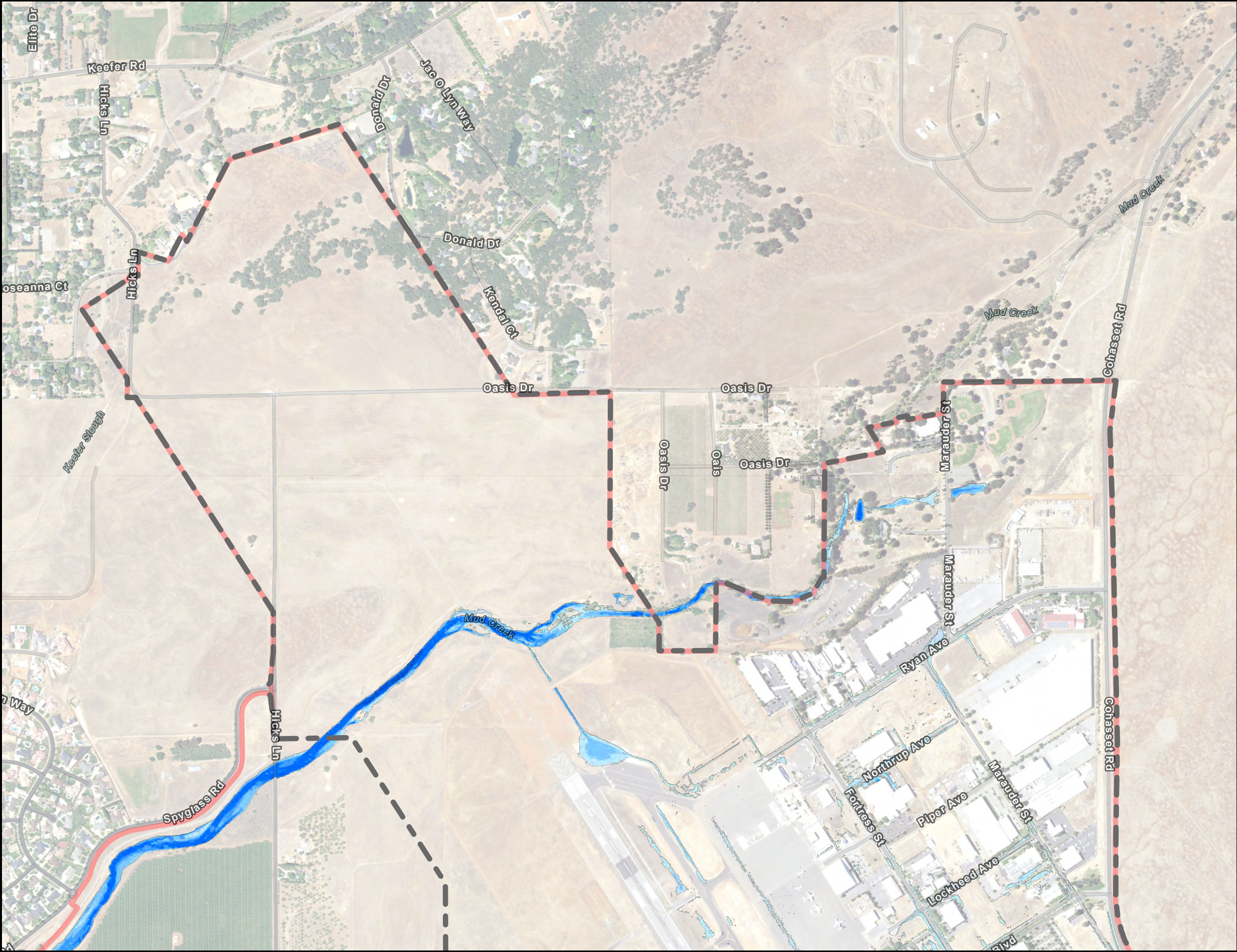
Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on 10-year flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

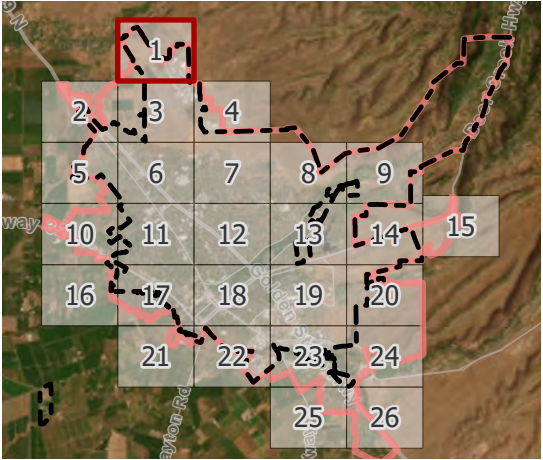
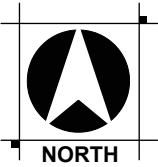
FIGURE 24-26



**10-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Condition
- Lack of Curb and Gutter
 - Lack of Gutter
 - Detention Basins
 - 1D Modeled Channel
 - Chico City Limits
 - Sphere of Influence
- 10-Year Model Results
- 0.25 foot - 1 foot
 - 1 foot - 2 feet
 - 2 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 7 feet
 - 7 feet - 10 feet
 - Greater than 10 feet

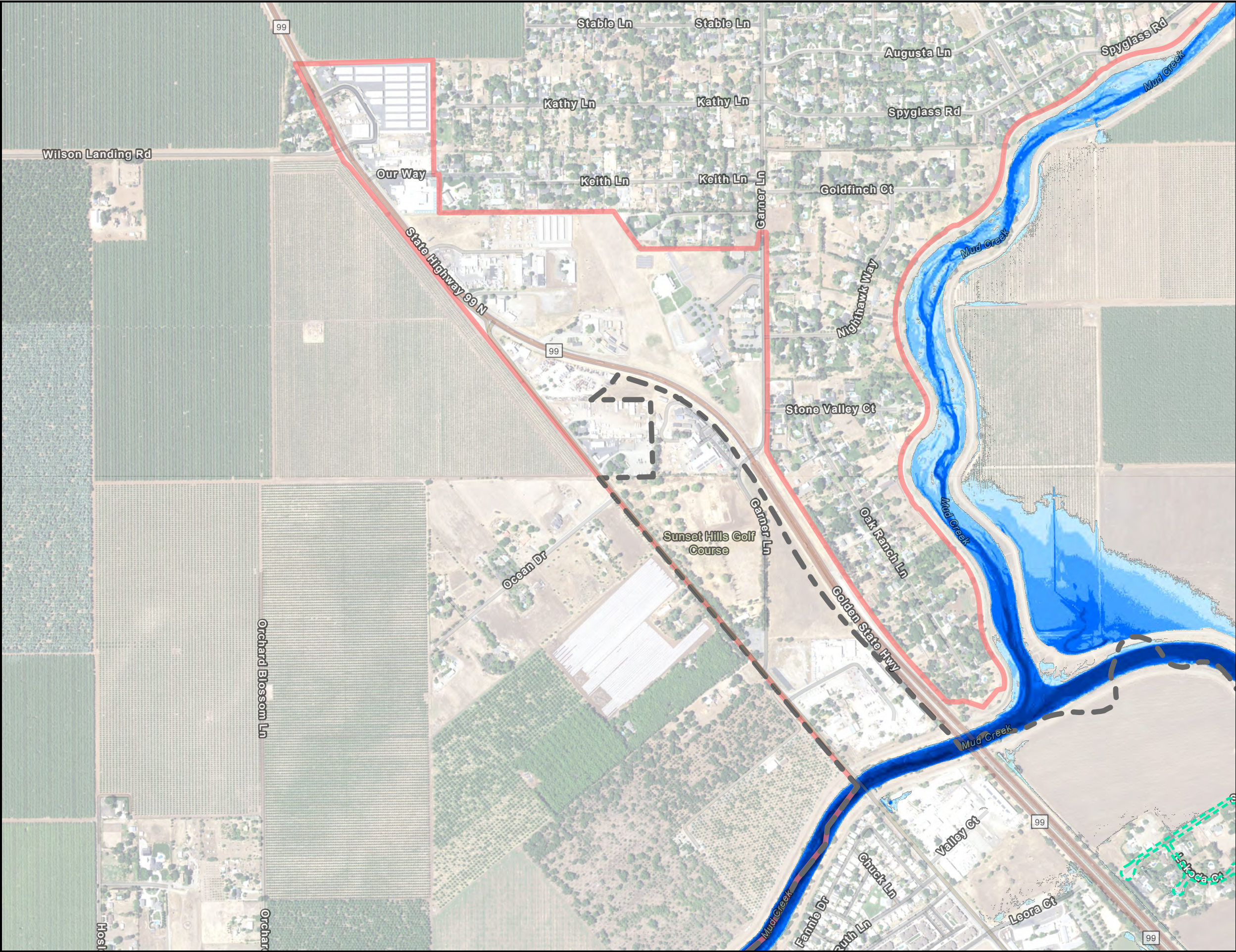
Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

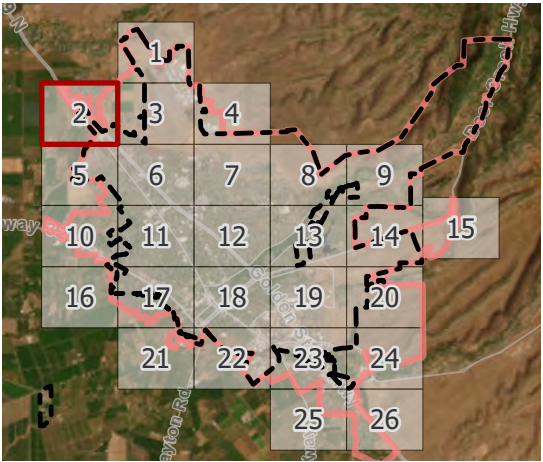
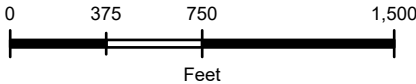
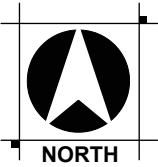
FIGURE 25-1



10-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Condition
- Lack of Curb and Gutter
 - Lack of Gutter
 - Detention Basins
 - 1D Modeled Channel
 - Chico City Limits
 - Sphere of Influence
- 10-Year Model Results
- 0.25 foot - 1 foot
 - 1 foot - 2 feet
 - 2 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 7 feet
 - 7 feet - 10 feet
 - Greater than 10 feet

Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.

2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

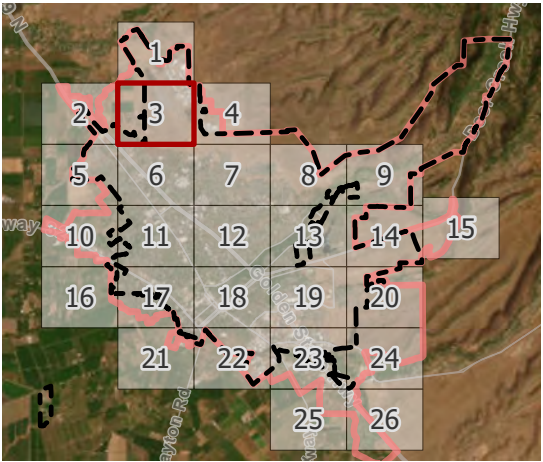
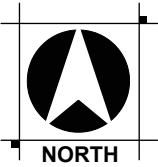
FIGURE 25-2



**10-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Condition
- Lack of Curb and Gutter
 - Lack of Gutter
 - Detention Basins
 - 1D Modeled Channel
 - Chico City Limits
 - Sphere of Influence
- 10-Year Model Results
- 0.25 foot - 1 foot
 - 1 foot - 2 feet
 - 2 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 7 feet
 - 7 feet - 10 feet
 - Greater than 10 feet

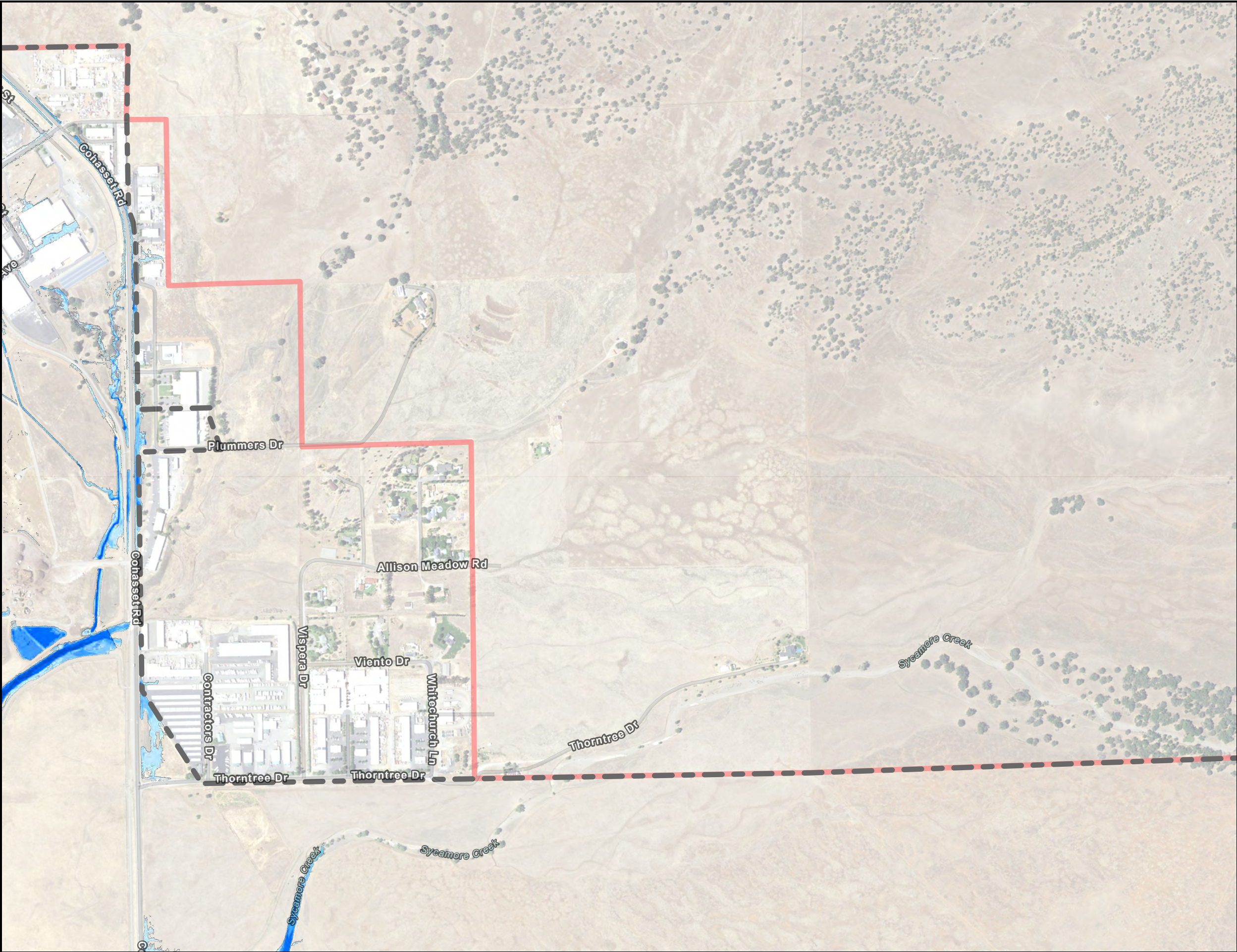
Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

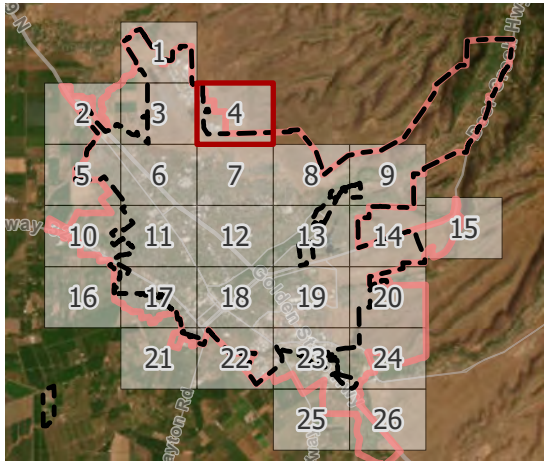
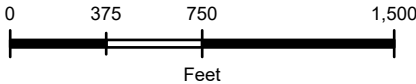
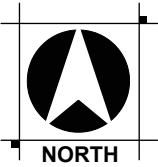
FIGURE 25-3



**10-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Condition
- Lack of Curb and Gutter
 - Lack of Gutter
 - Detention Basins
 - 1D Modeled Channel
 - Chico City Limits
 - Sphere of Influence
- 10-Year Model Results
- 0.25 foot - 1 foot
 - 1 foot - 2 feet
 - 2 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 7 feet
 - 7 feet - 10 feet
 - Greater than 10 feet

Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

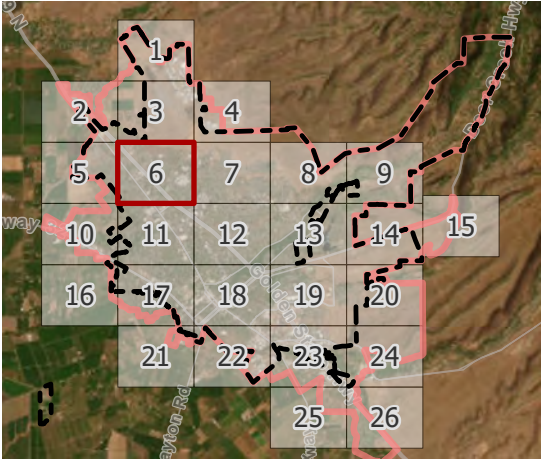
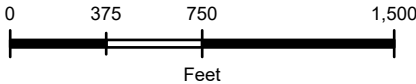
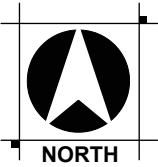
FIGURE 25-4



**10-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Condition
- Lack of Curb and Gutter
 - Lack of Gutter
 - Detention Basins
 - 1D Modeled Channel
 - Chico City Limits
 - Sphere of Influence
- 10-Year Model Results
- 0.25 foot - 1 foot
 - 1 foot - 2 feet
 - 2 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 7 feet
 - 7 feet - 10 feet
 - Greater than 10 feet

Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

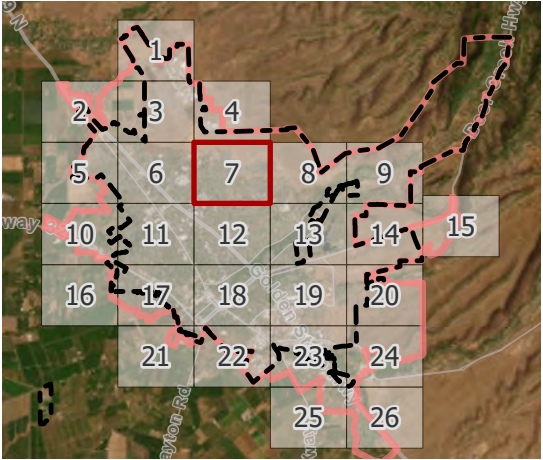
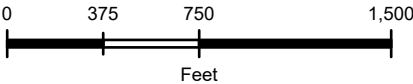
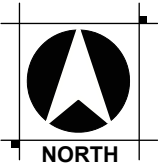
FIGURE 25-6



**10-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Condition
- Lack of Curb and Gutter
 - Lack of Gutter
 - Detention Basins
 - ▨ 1D Modeled Channel
 - ▬ Chico City Limits
 - ▭ Sphere of Influence
- 10-Year Model Results
- 0.25 foot - 1 foot
 - 1 foot - 2 feet
 - 2 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 7 feet
 - 7 feet - 10 feet
 - Greater than 10 feet

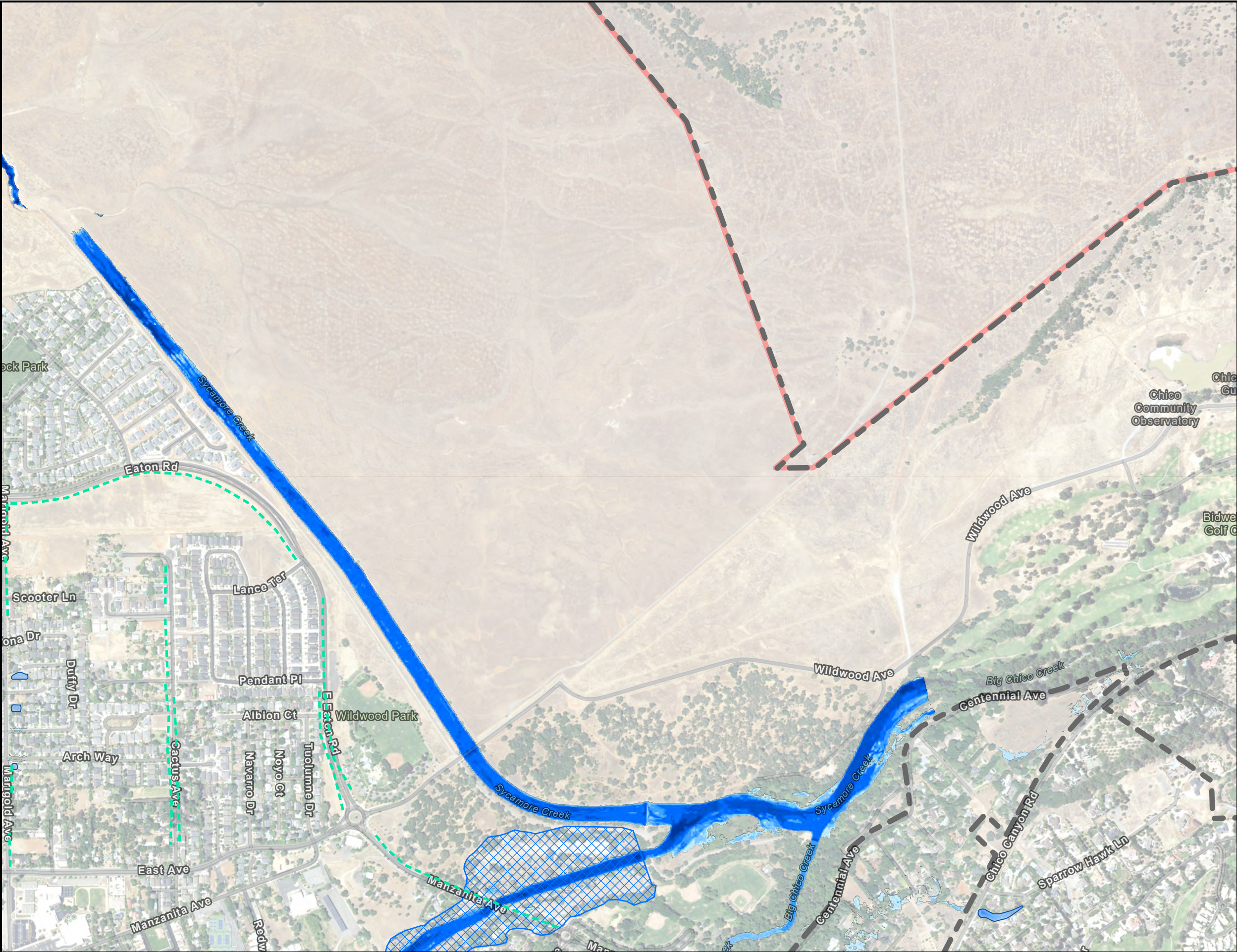
Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

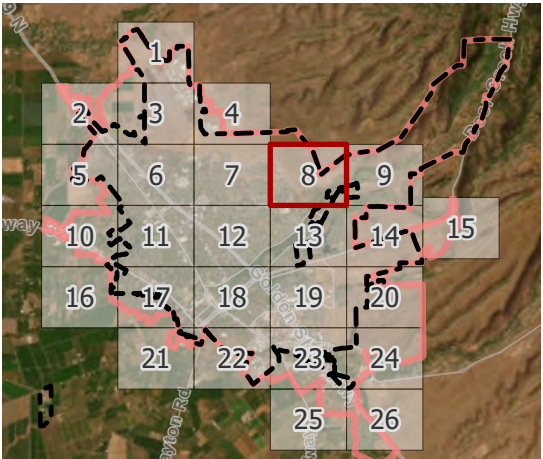
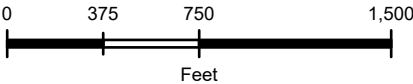
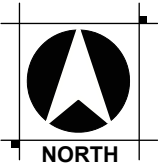
FIGURE 25-7



**10-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Condition
- Lack of Curb and Gutter
 - Lack of Gutter
 - Detention Basins
 - 1D Modeled Channel
 - Chico City Limits
 - Sphere of Influence
- 10-Year Model Results
- 0.25 foot - 1 foot
 - 1 foot - 2 feet
 - 2 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 7 feet
 - 7 feet - 10 feet
 - Greater than 10 feet

Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

- The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
- Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

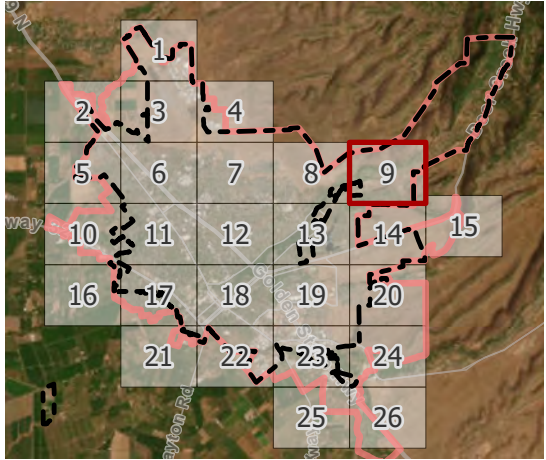
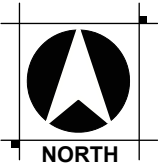
FIGURE 25-8



10-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Condition
- Lack of Curb and Gutter
 - Lack of Gutter
 - Detention Basins
 - 1D Modeled Channel
 - Chico City Limits
 - Sphere of Influence
- 10-Year Model Results
- 0.25 foot - 1 foot
 - 1 foot - 2 feet
 - 2 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 7 feet
 - 7 feet - 10 feet
 - Greater than 10 feet

Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS

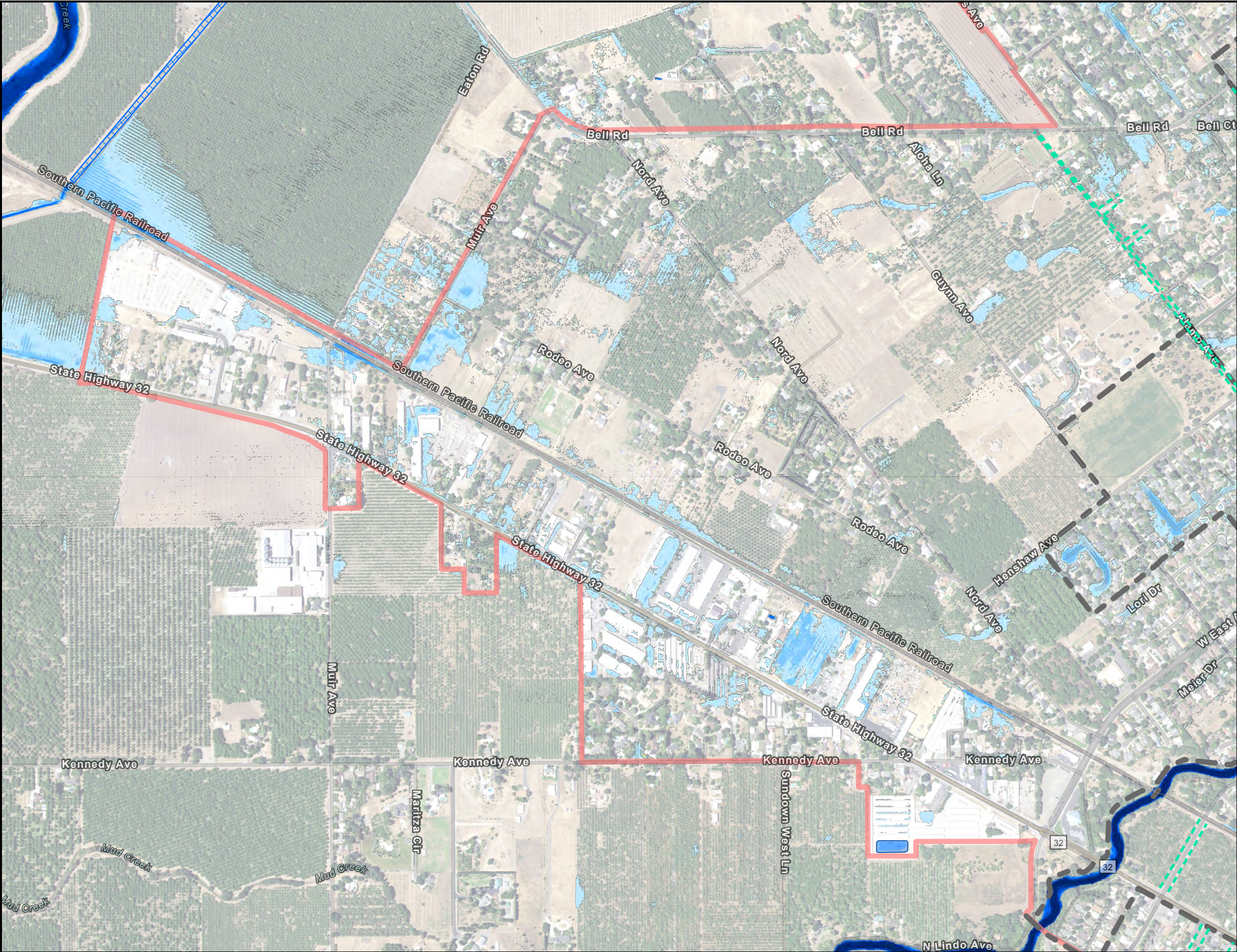


NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.

2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

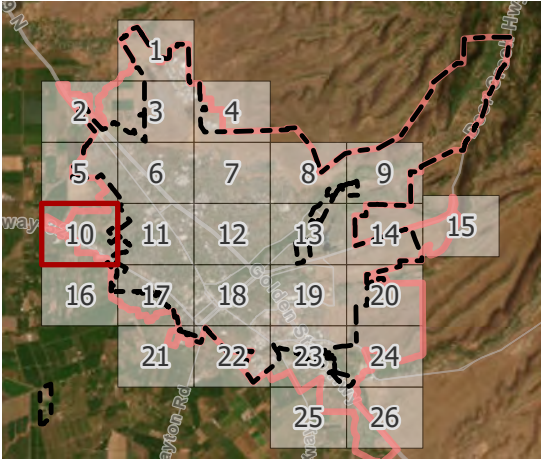
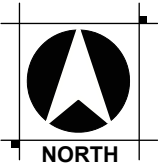
FIGURE 25-9



**10-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Condition
- Lack of Curb and Gutter
 - Lack of Gutter
 - Detention Basins
 - 1D Modeled Channel
 - Chico City Limits
 - Sphere of Influence
- 10-Year Model Results
- 0.25 foot - 1 foot
 - 1 foot - 2 feet
 - 2 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 7 feet
 - 7 feet - 10 feet
 - Greater than 10 feet

Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



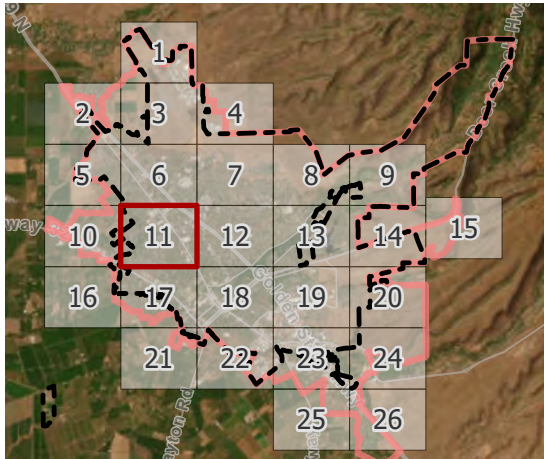
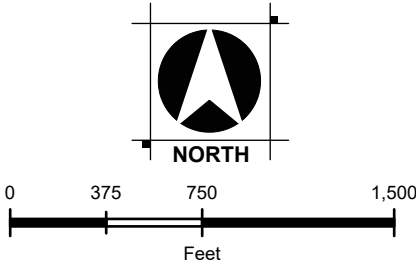
NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

FIGURE 25-10



**10-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**
STORM WATER MASTER PLAN
CITY OF CHICO
DECEMBER 2024



- Condition
- Lack of Curb and Gutter
 - Lack of Gutter
 - Detention Basins
 - 1D Modeled Channel
 - Chico City Limits
 - Sphere of Influence
- 10-Year Model Results
- 0.25 foot - 1 foot
 - 1 foot - 2 feet
 - 2 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 7 feet
 - 7 feet - 10 feet
 - Greater than 10 feet

Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

- The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
- Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

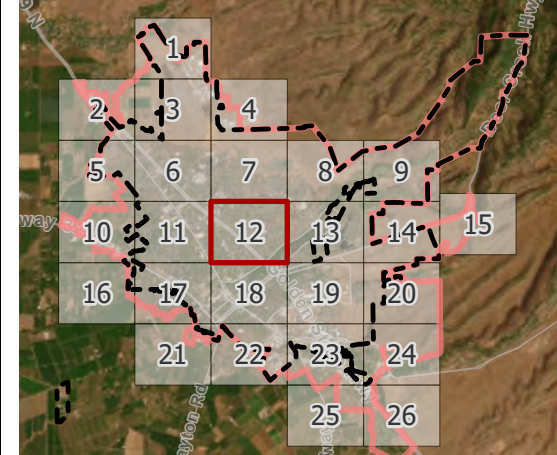
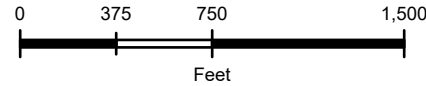
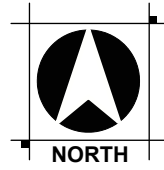
FIGURE 25-11



**10-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Condition
- Lack of Curb and Gutter
 - Lack of Gutter
 - Detention Basins
 - ▨ 1D Modeled Channel
 - ▬ Chico City Limits
 - ▭ Sphere of Influence
- 10-Year Model Results
- 0.25 foot - 1 foot
 - 1 foot - 2 feet
 - 2 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 7 feet
 - 7 feet - 10 feet
 - Greater than 10 feet

Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

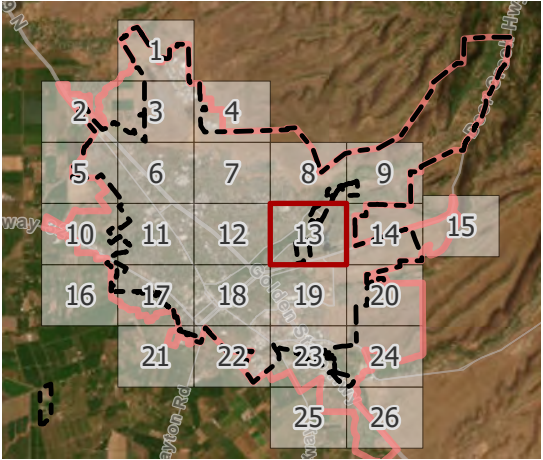
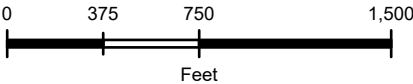
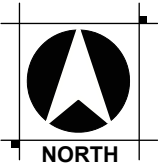
FIGURE 25-12



**10-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Condition
- Lack of Curb and Gutter
 - Lack of Gutter
 - Detention Basins
 - 1D Modeled Channel
 - Chico City Limits
 - Sphere of Influence
- 10-Year Model Results
- 0.25 foot - 1 foot
 - 1 foot - 2 feet
 - 2 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 7 feet
 - 7 feet - 10 feet
 - Greater than 10 feet

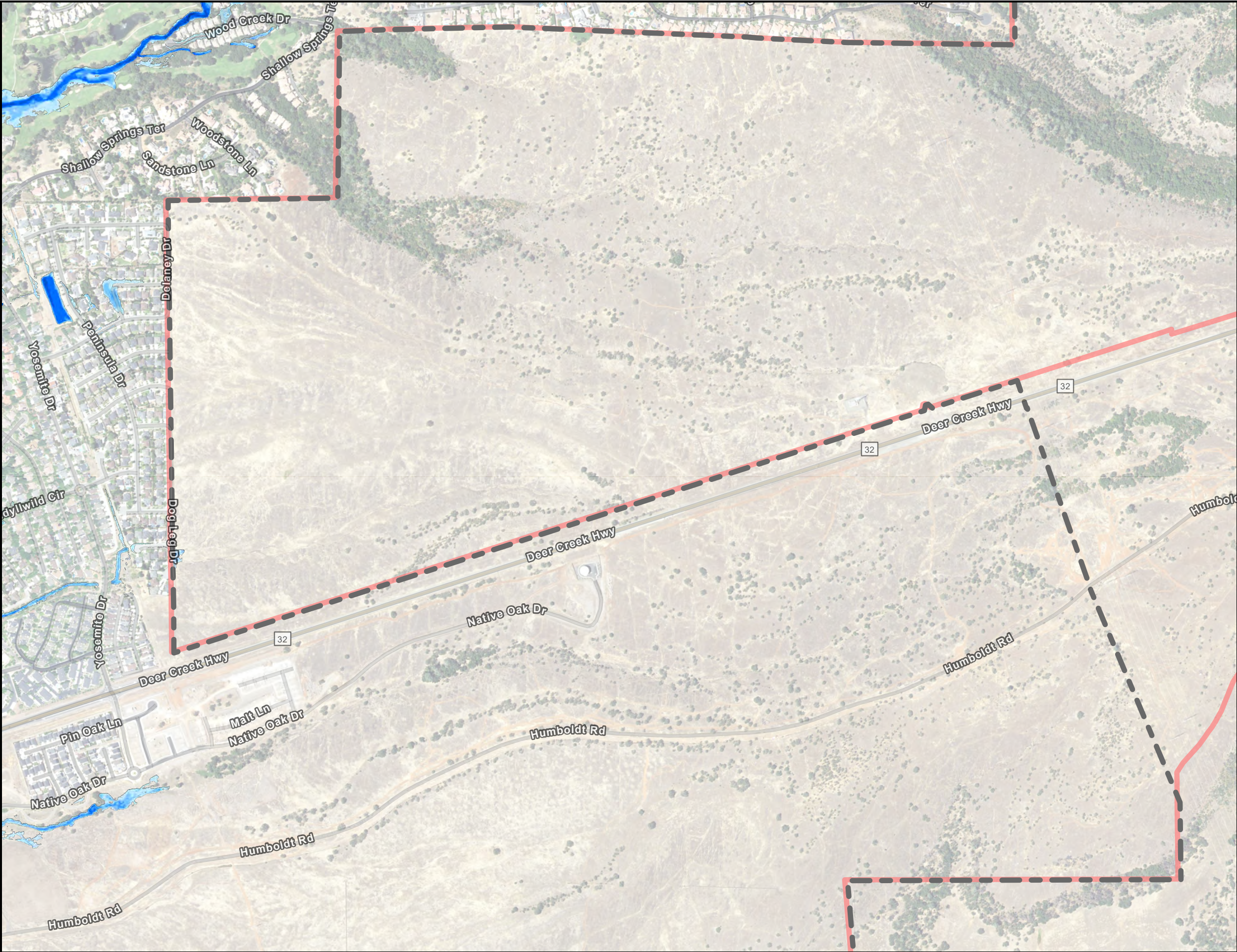
Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

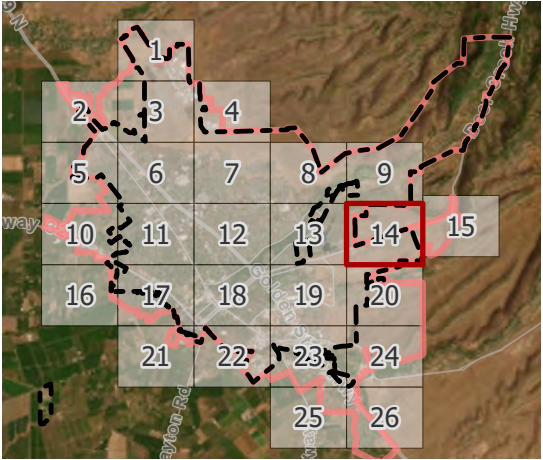
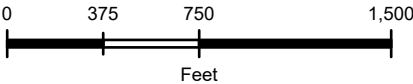
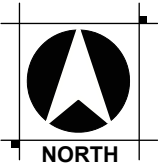
FIGURE 25-13



**10-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Condition
- Lack of Curb and Gutter
 - Lack of Gutter
 - Detention Basins
 - 1D Modeled Channel
 - Chico City Limits
 - Sphere of Influence
- 10-Year Model Results
- 0.25 foot - 1 foot
 - 1 foot - 2 feet
 - 2 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 7 feet
 - 7 feet - 10 feet
 - Greater than 10 feet

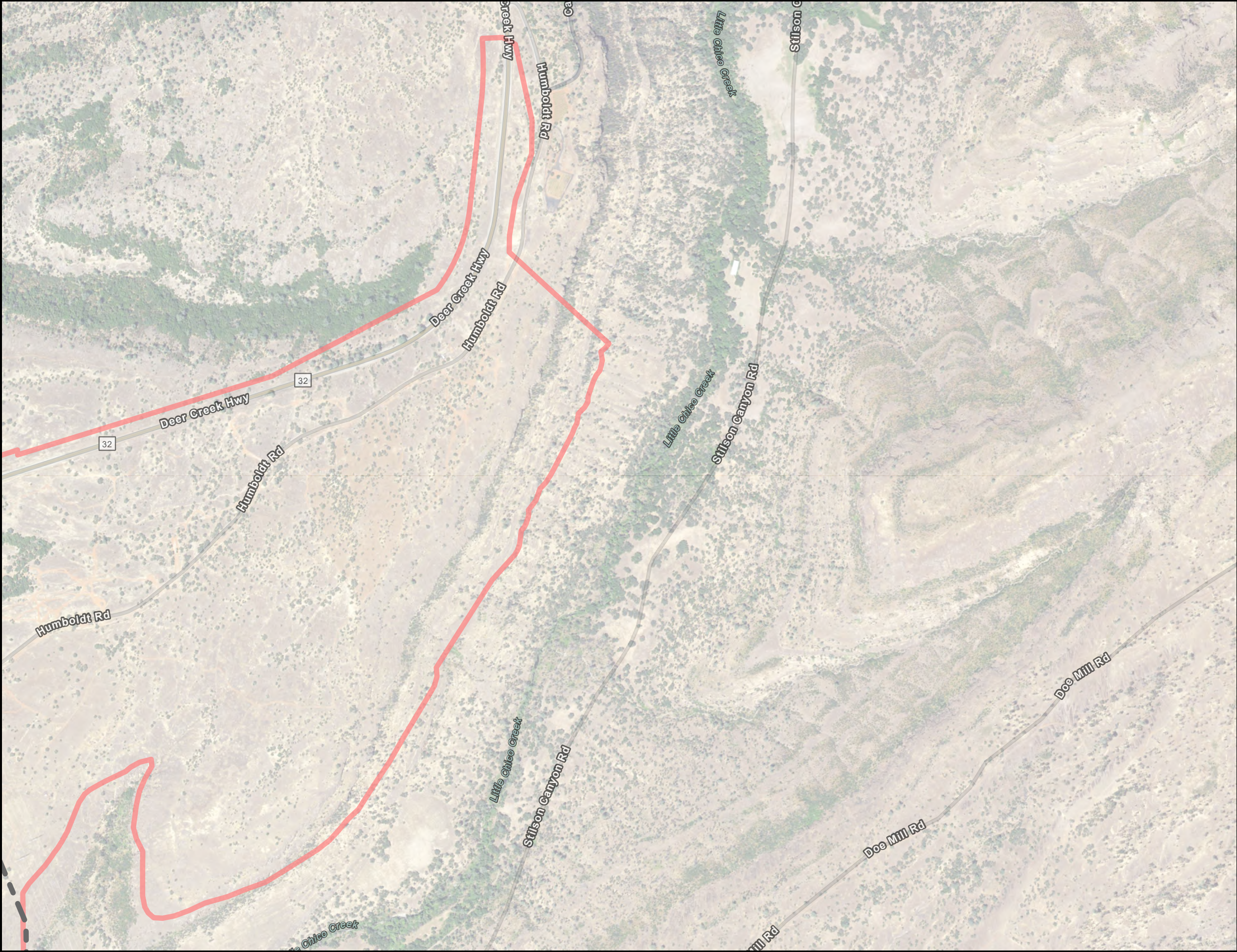
Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

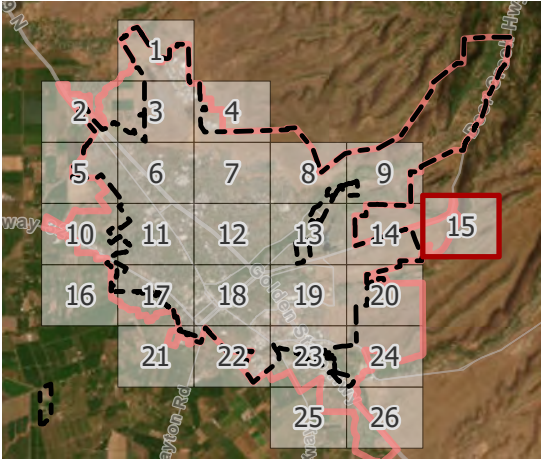
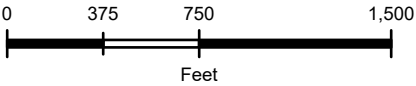
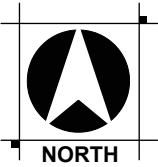
FIGURE 25-14



**10-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Condition
- Lack of Curb and Gutter
 - Lack of Gutter
 - Detention Basins
 - 1D Modeled Channel
 - Chico City Limits
 - Sphere of Influence
- 10-Year Model Results
- 0.25 foot - 1 foot
 - 1 foot - 2 feet
 - 2 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 7 feet
 - 7 feet - 10 feet
 - Greater than 10 feet

Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

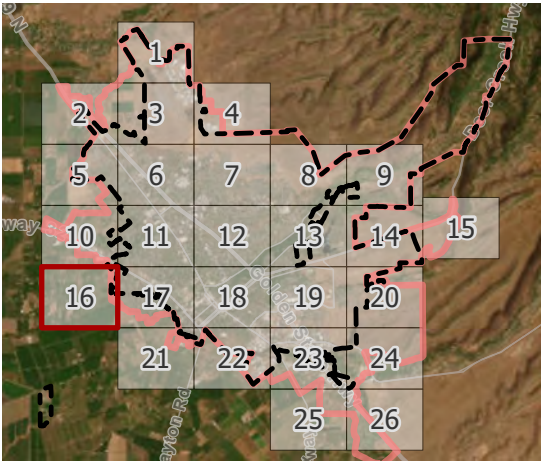
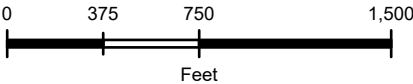
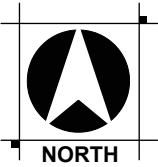
FIGURE 25-15



**10-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Condition
- Lack of Curb and Gutter
 - Lack of Gutter
 - Detention Basins
 - 1D Modeled Channel
 - Chico City Limits
 - Sphere of Influence
- 10-Year Model Results
- 0.25 foot - 1 foot
 - 1 foot - 2 feet
 - 2 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 7 feet
 - 7 feet - 10 feet
 - Greater than 10 feet

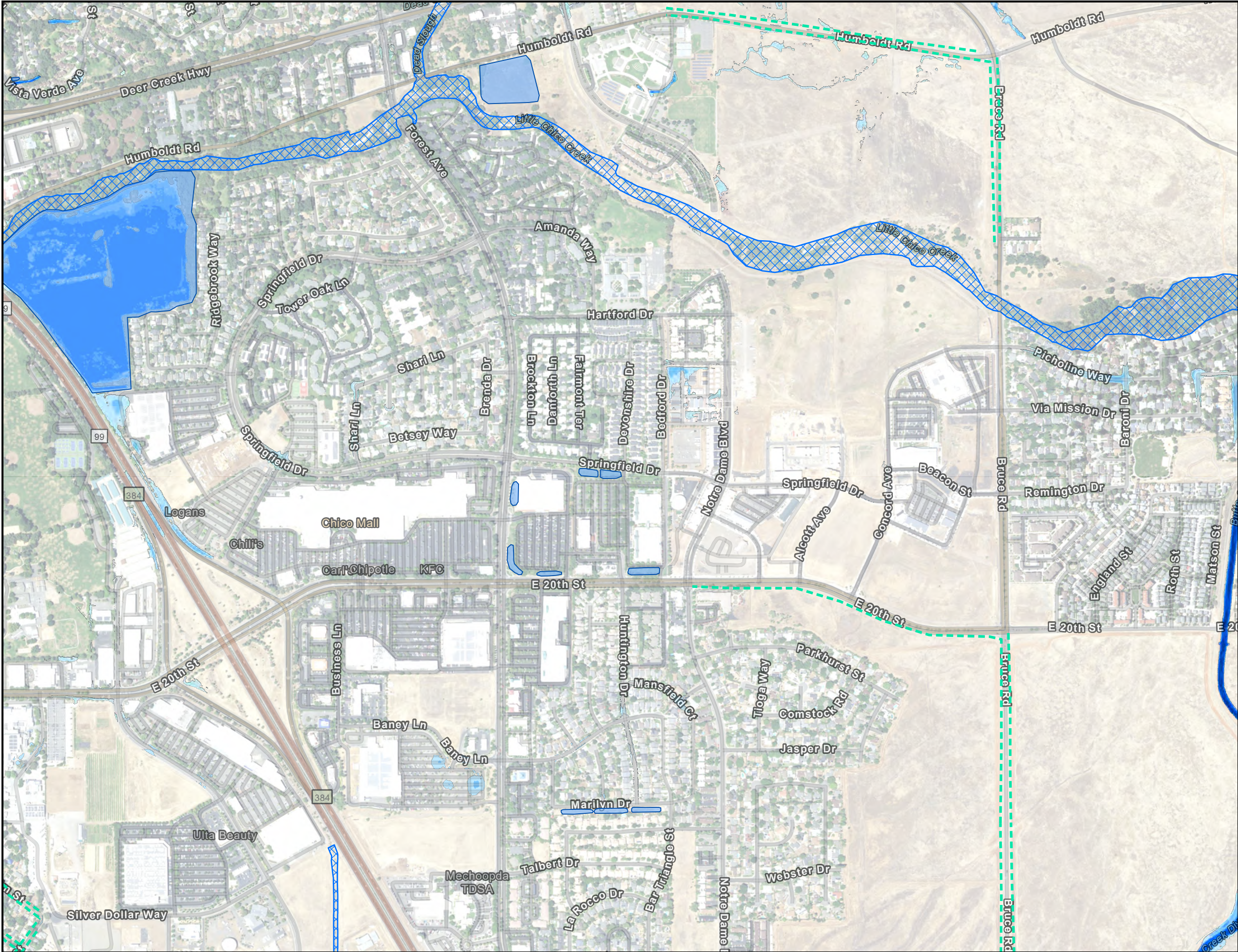
Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



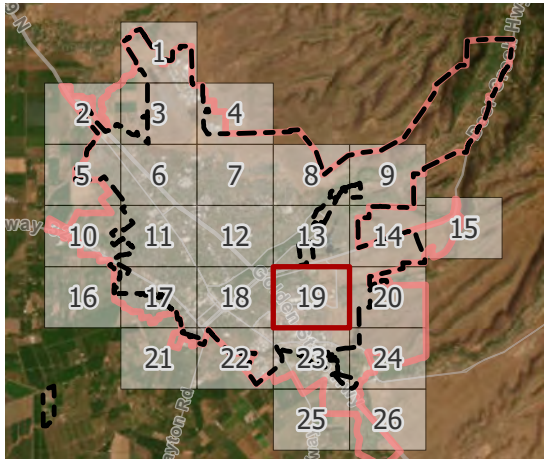
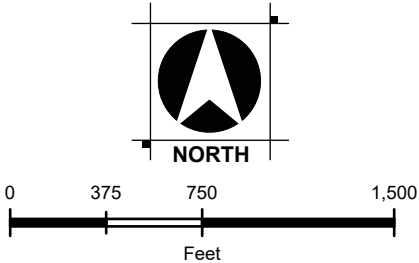
NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

FIGURE 25-16



**10-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**
STORM WATER MASTER PLAN
CITY OF CHICO
DECEMBER 2024



- Condition
- Lack of Curb and Gutter
 - Lack of Gutter
 - Detention Basins
 - ▨ 1D Modeled Channel
 - ▬ Chico City Limits
 - ▭ Sphere of Influence
- 10-Year Model Results
- 0.25 foot - 1 foot
 - 1 foot - 2 feet
 - 2 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 7 feet
 - 7 feet - 10 feet
 - Greater than 10 feet

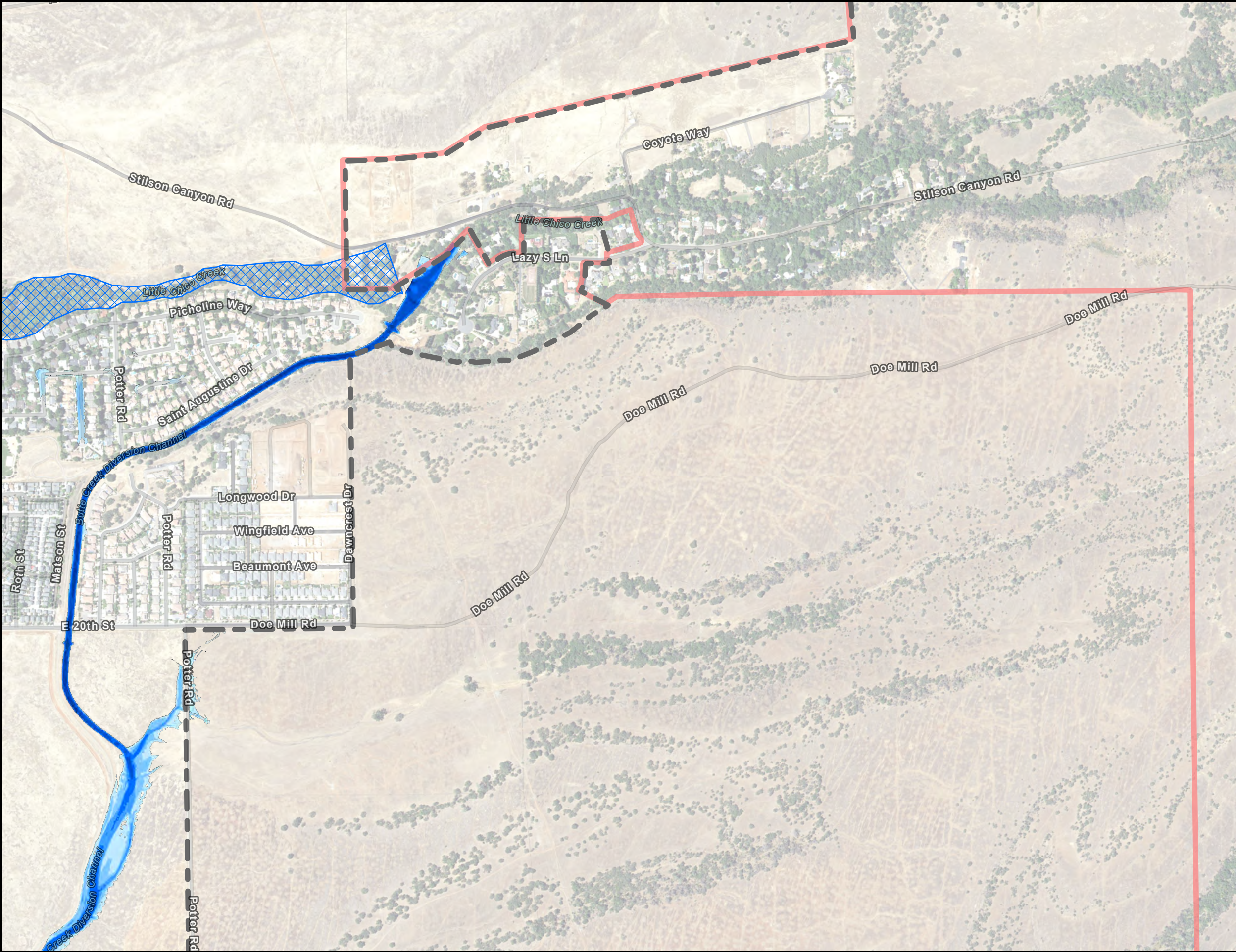
Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

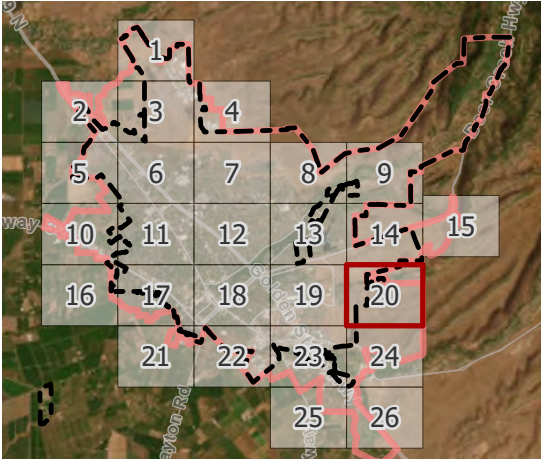
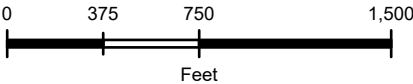
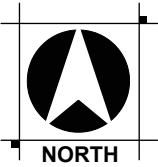
FIGURE 25-19



10-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Condition
- Lack of Curb and Gutter
 - Lack of Gutter
 - Detention Basins
 - 1D Modeled Channel
 - Chico City Limits
 - Sphere of Influence
- 10-Year Model Results
- 0.25 foot - 1 foot
 - 1 foot - 2 feet
 - 2 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 7 feet
 - 7 feet - 10 feet
 - Greater than 10 feet

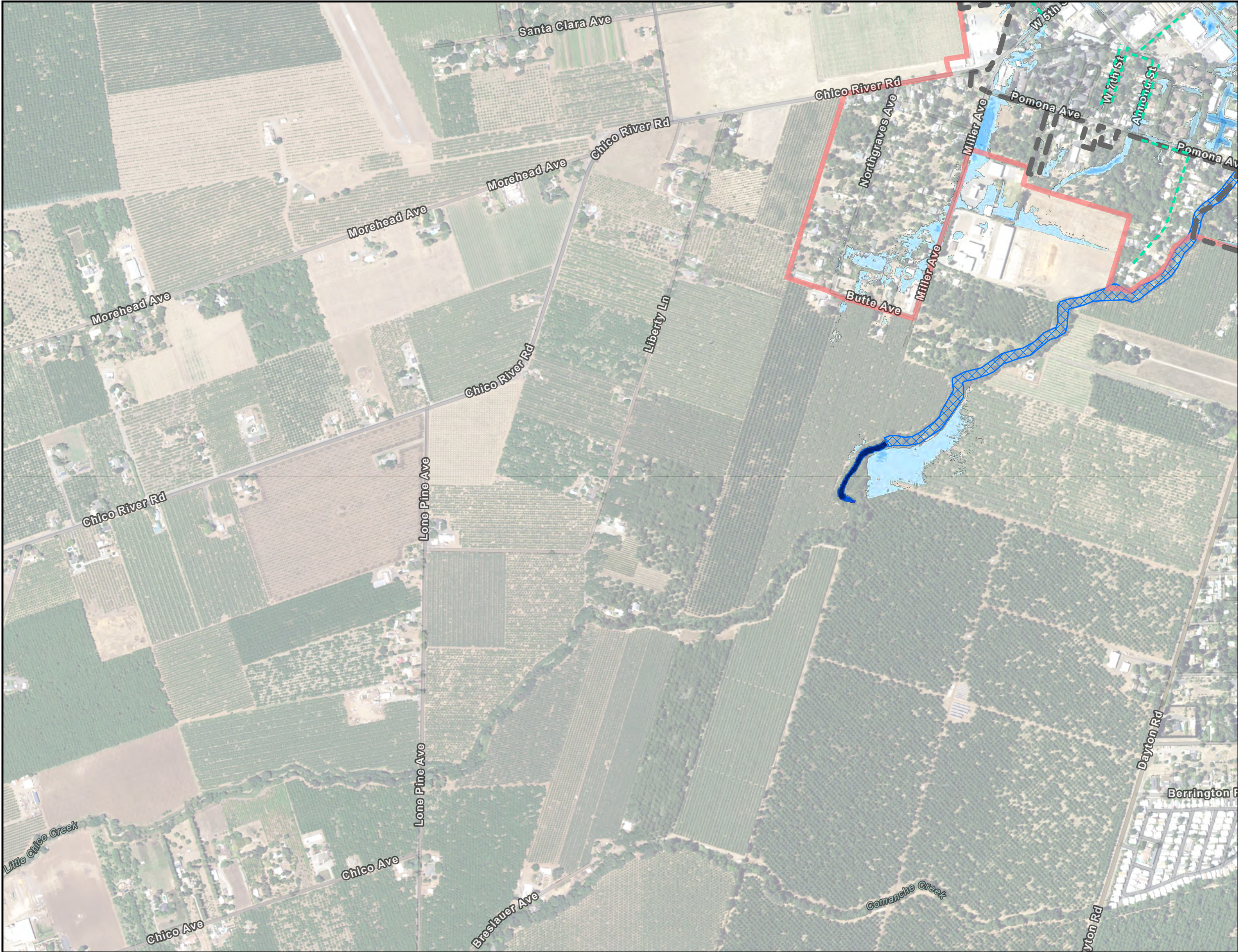
Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

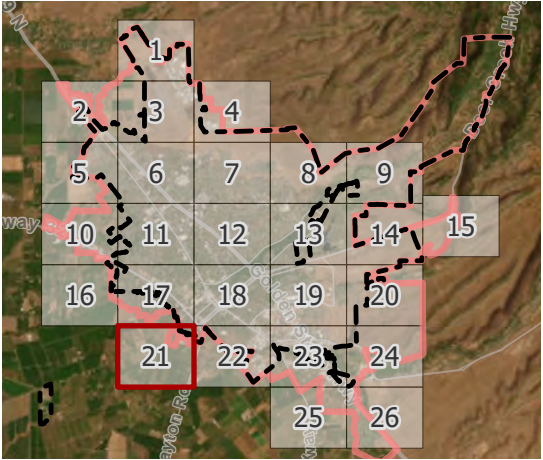
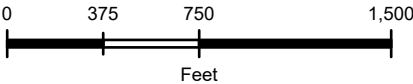
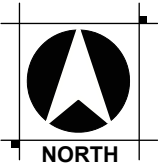
FIGURE 25-20



**10-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Condition
- Lack of Curb and Gutter
 - Lack of Gutter
 - Detention Basins
 - 1D Modeled Channel
 - Chico City Limits
 - Sphere of Influence
- 10-Year Model Results
- 0.25 foot - 1 foot
 - 1 foot - 2 feet
 - 2 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 7 feet
 - 7 feet - 10 feet
 - Greater than 10 feet

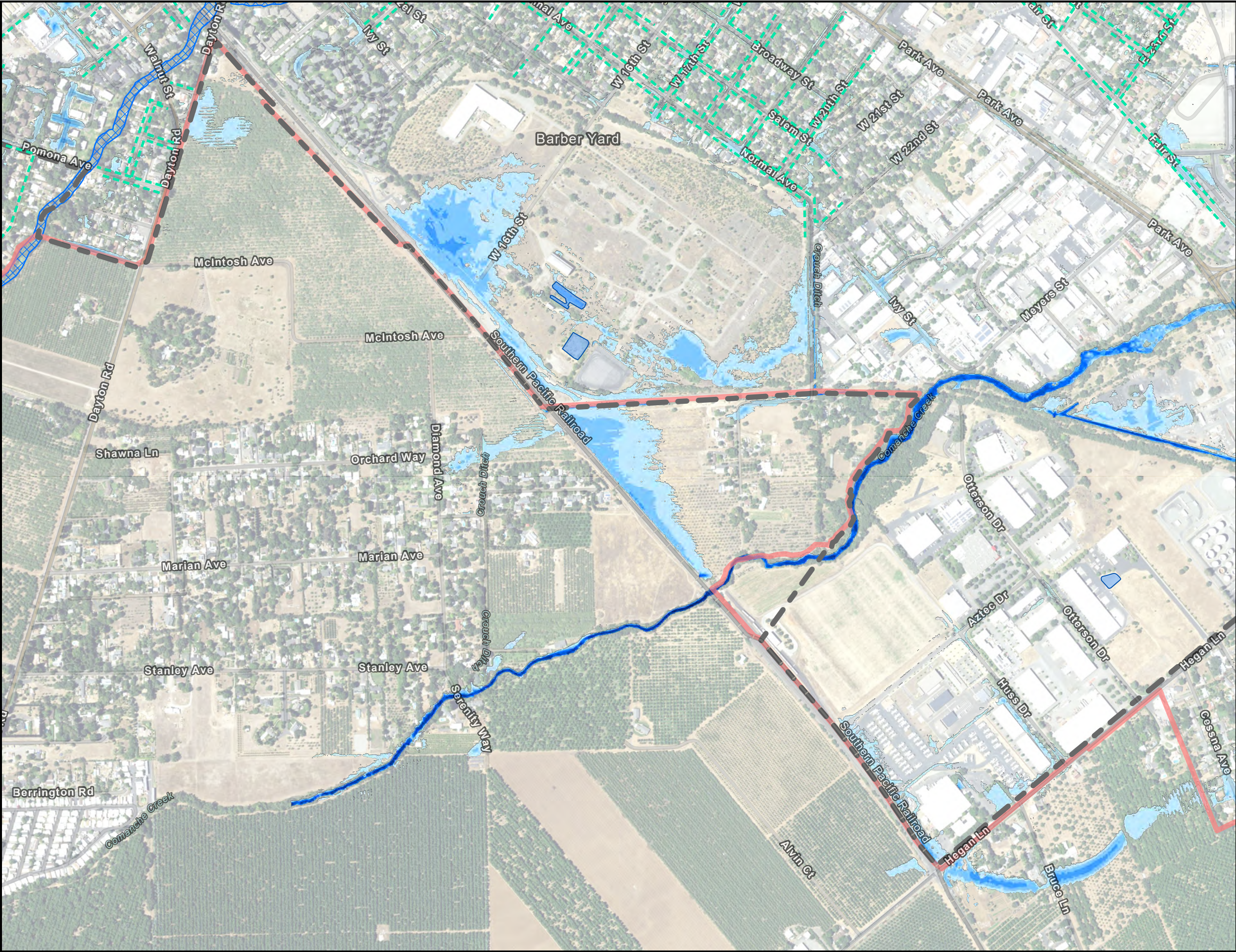
Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



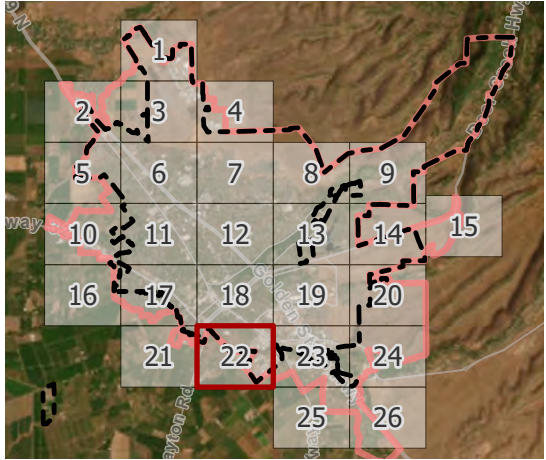
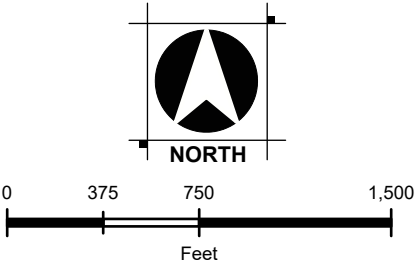
NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

FIGURE 25-21



**10-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**
STORM WATER MASTER PLAN
CITY OF CHICO
DECEMBER 2024



- Condition
- Lack of Curb and Gutter
 - Lack of Gutter
 - Detention Basins
 - 1D Modeled Channel
 - Chico City Limits
 - Sphere of Influence
- 10-Year Model Results
- 0.25 foot - 1 foot
 - 1 foot - 2 feet
 - 2 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 7 feet
 - 7 feet - 10 feet
 - Greater than 10 feet

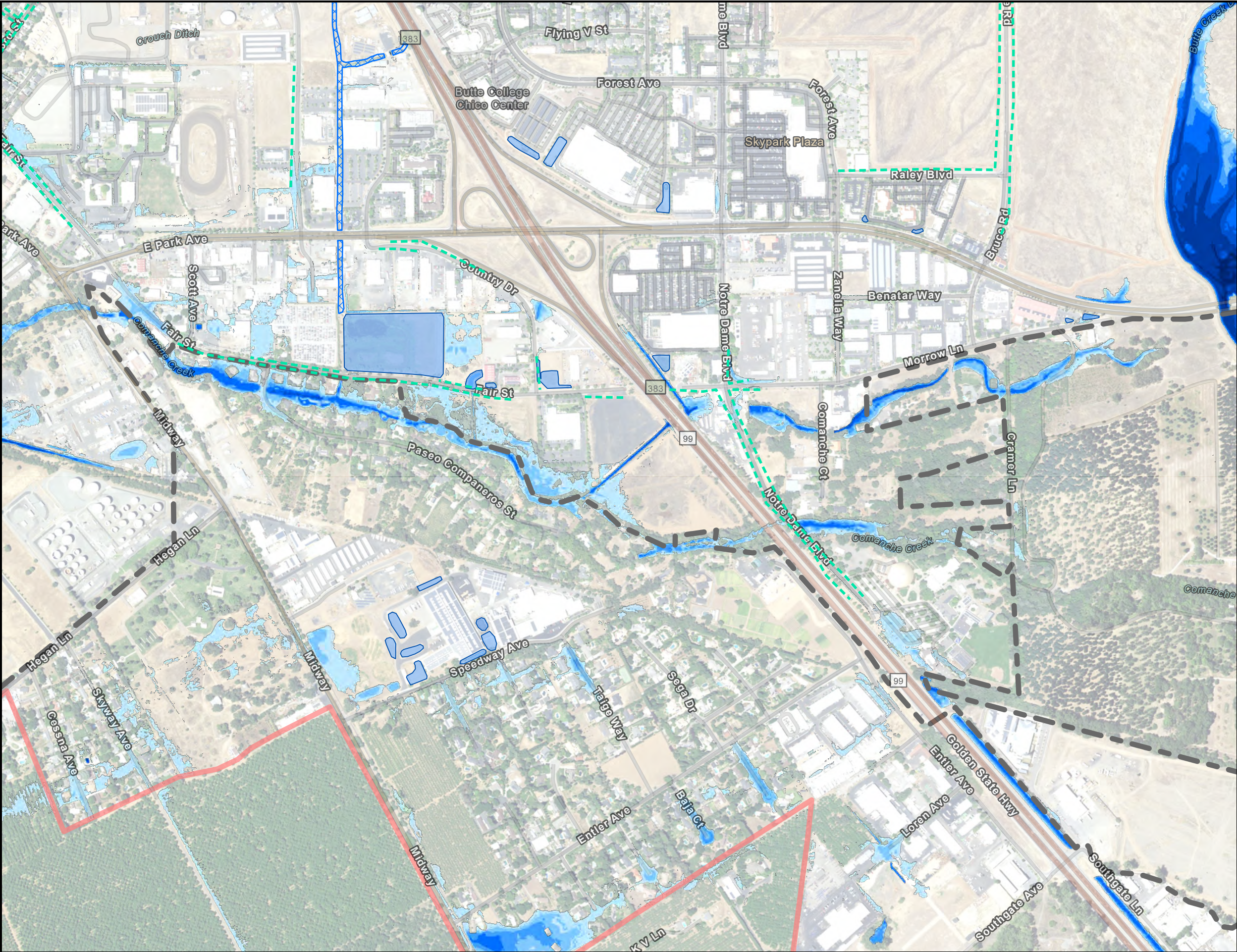
Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

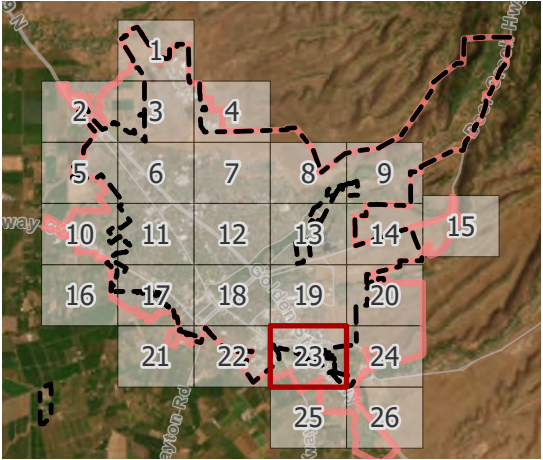
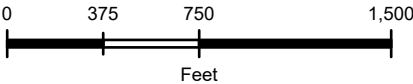
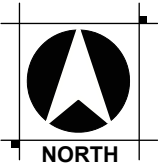
FIGURE 25-22



**10-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Condition
- Lack of Curb and Gutter
 - Lack of Gutter
 - Detention Basins
 - 1D Modeled Channel
 - Chico City Limits
 - Sphere of Influence
- 10-Year Model Results
- 0.25 foot - 1 foot
 - 1 foot - 2 feet
 - 2 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 7 feet
 - 7 feet - 10 feet
 - Greater than 10 feet

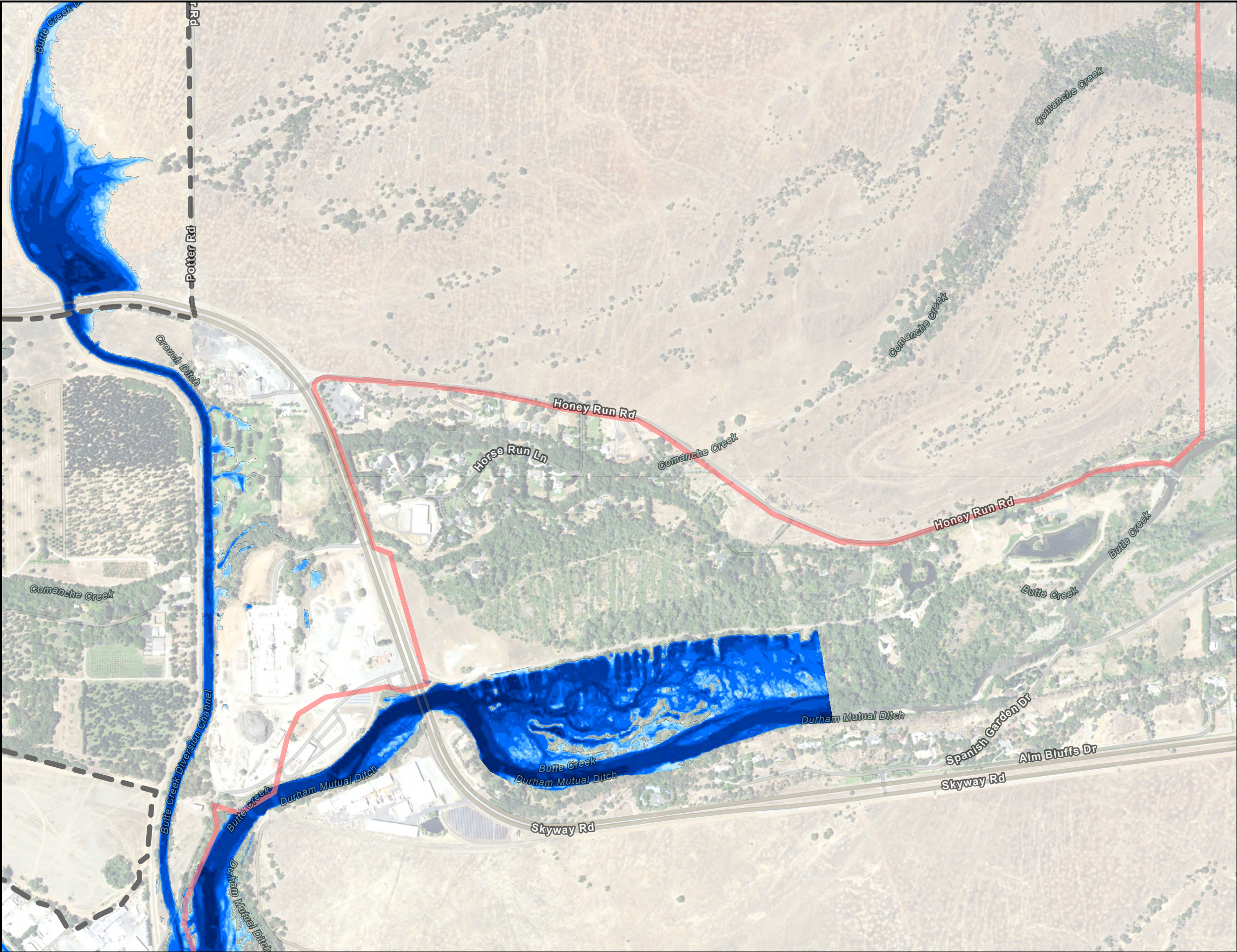
Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

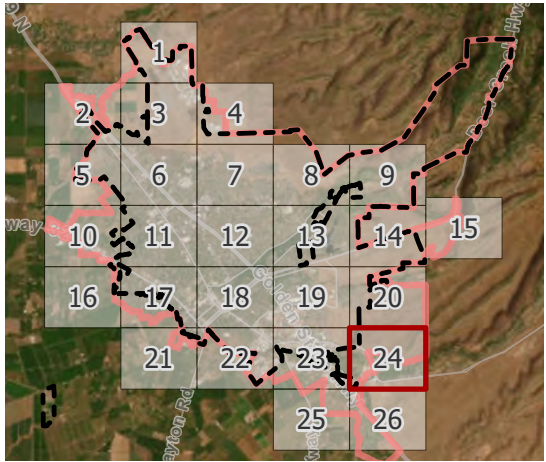
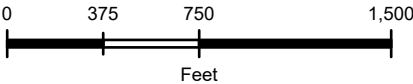
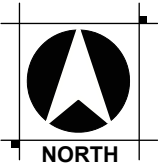
FIGURE 25-23



**10-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Condition
- Lack of Curb and Gutter
 - Lack of Gutter
 - Detention Basins
 - 1D Modeled Channel
 - Chico City Limits
 - Sphere of Influence
- 10-Year Model Results
- 0.25 foot - 1 foot
 - 1 foot - 2 feet
 - 2 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 7 feet
 - 7 feet - 10 feet
 - Greater than 10 feet

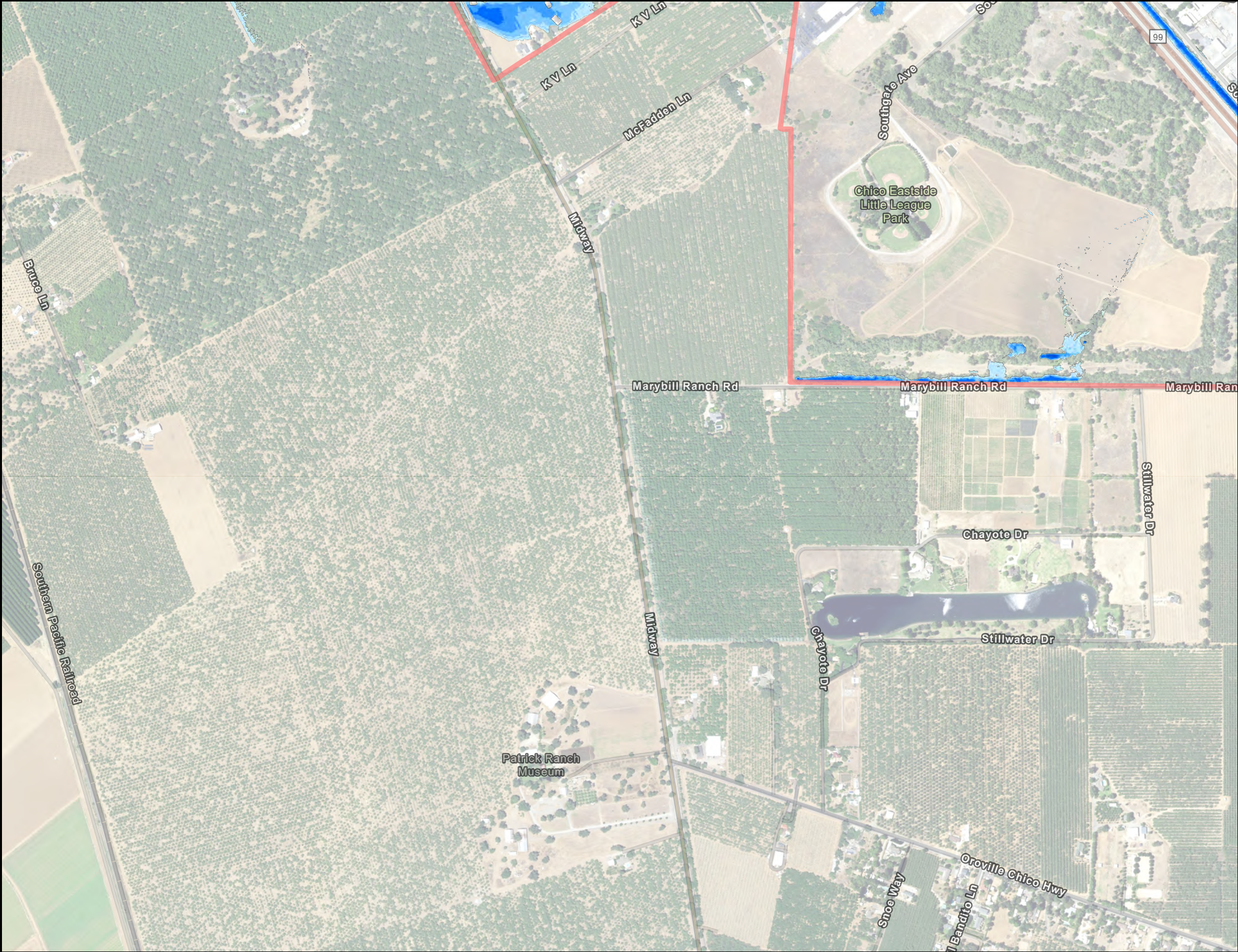
Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

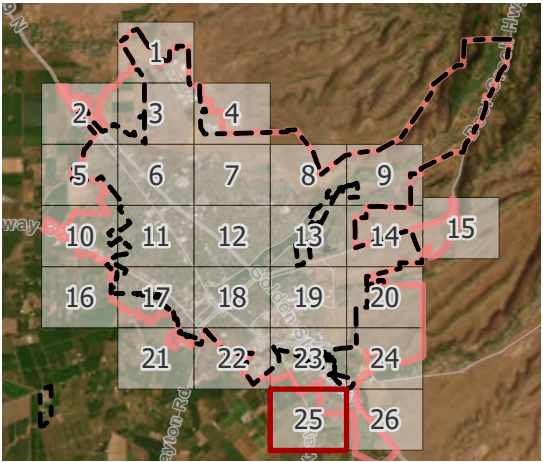
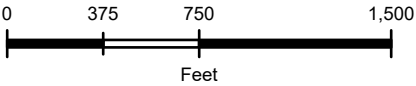
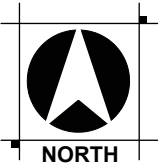
FIGURE 25-24



**10-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Condition
- Lack of Curb and Gutter
 - Lack of Gutter
 - Detention Basins
 - 1D Modeled Channel
 - Chico City Limits
 - Sphere of Influence
- 10-Year Model Results
- 0.25 foot - 1 foot
 - 1 foot - 2 feet
 - 2 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 7 feet
 - 7 feet - 10 feet
 - Greater than 10 feet

Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

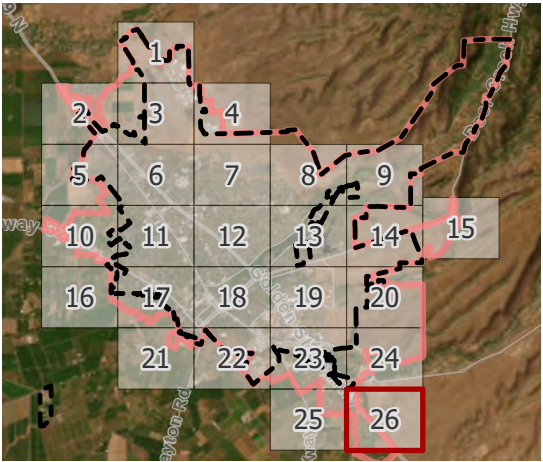
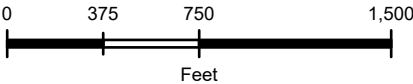
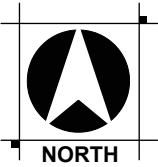
FIGURE 25-25



**10-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Condition
- Lack of Curb and Gutter
 - Lack of Gutter
 - Detention Basins
 - 1D Modeled Channel
 - Chico City Limits
 - Sphere of Influence
- 10-Year Model Results
- 0.25 foot - 1 foot
 - 1 foot - 2 feet
 - 2 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 7 feet
 - 7 feet - 10 feet
 - Greater than 10 feet

Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

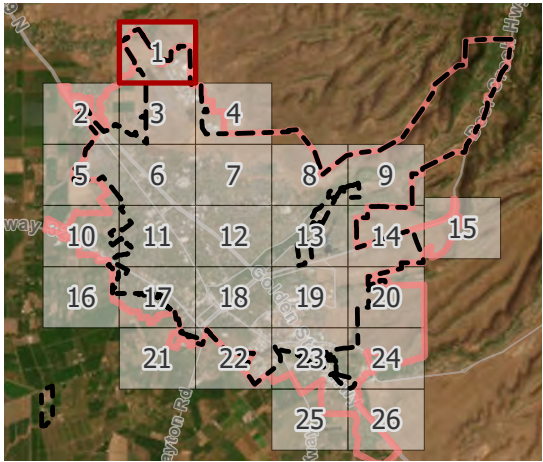
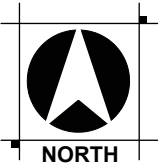
FIGURE 25-26



**100-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Lack of Curb and Gutter
- Lack of Gutter
- Detention Basins
- 1D Modeled Channel
- Chico City Limits
- Sphere of Influence

100-Year Model Results

- 0.25 foot - 1 foot
- 1 foot - 2 feet
- 2 feet - 3 feet
- 3 feet - 5 feet
- 5 feet - 7 feet
- 7 feet - 10 feet
- Greater than 10 feet

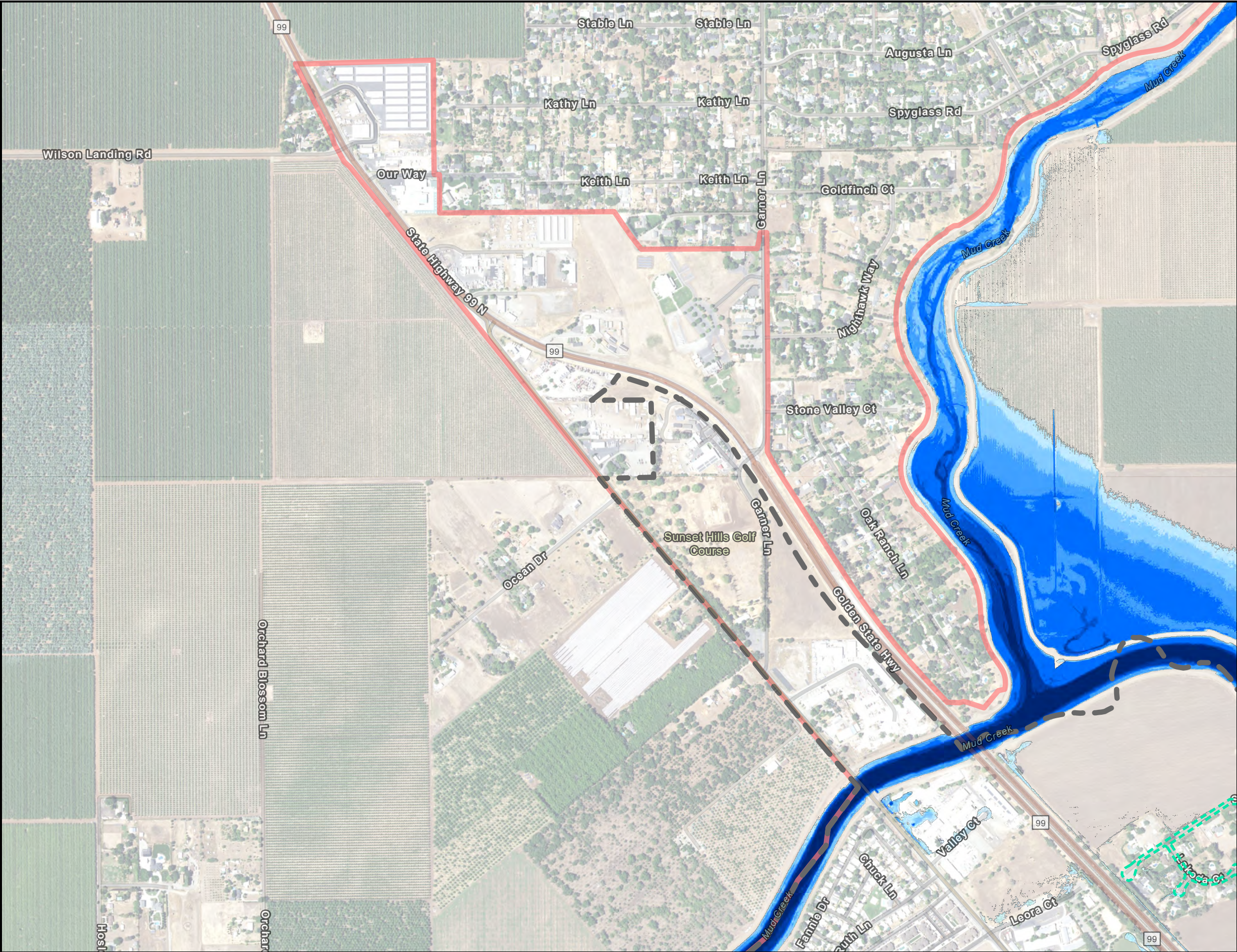
Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

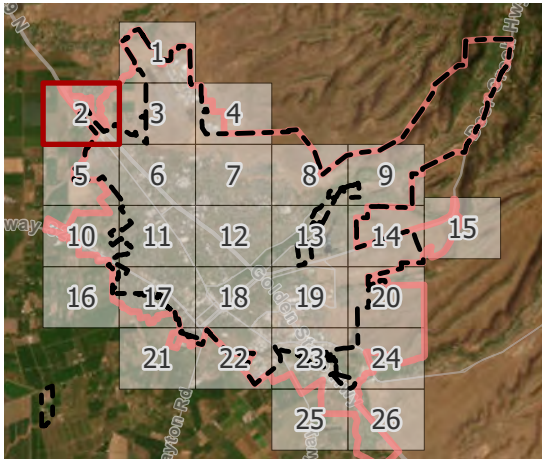
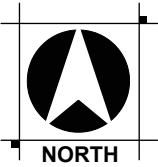
FIGURE 26-1



**100-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Lack of Curb and Gutter
- Lack of Gutter
- Detention Basins
- 1D Modeled Channel
- Chico City Limits
- Sphere of Influence

100-Year Model Results

- 0.25 foot - 1 foot
- 1 foot - 2 feet
- 2 feet - 3 feet
- 3 feet - 5 feet
- 5 feet - 7 feet
- 7 feet - 10 feet
- Greater than 10 feet

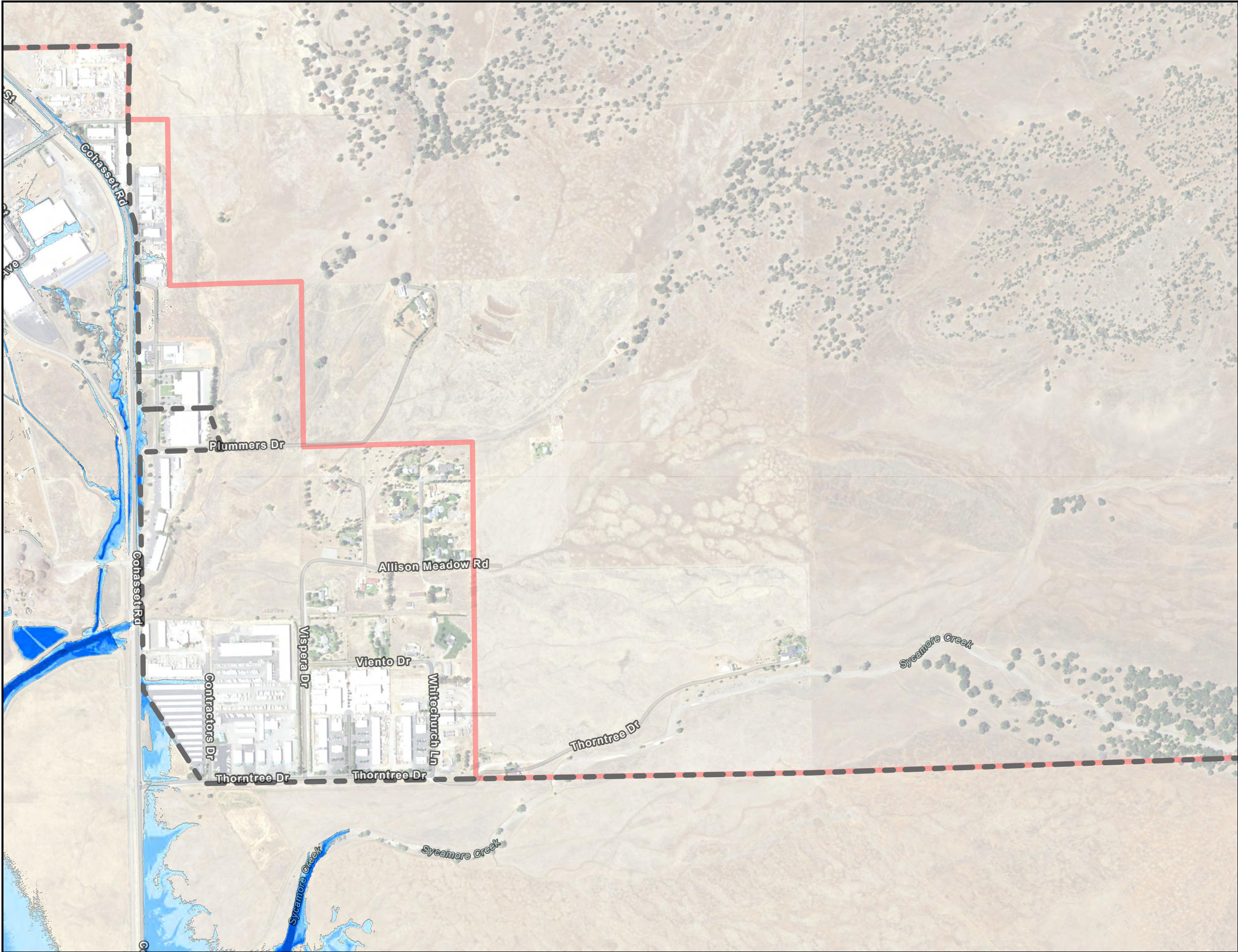
Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

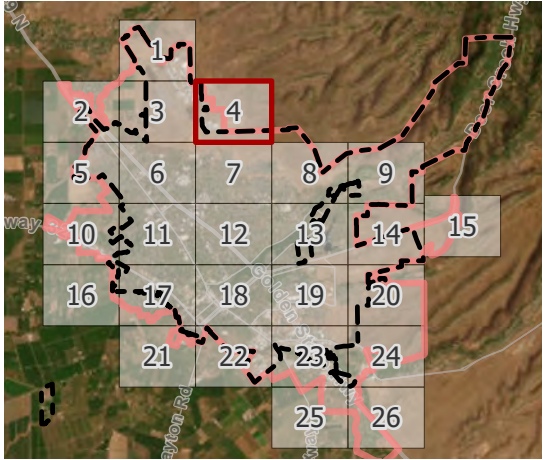
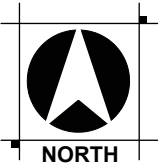
FIGURE 26-2



**100-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Lack of Curb and Gutter
- Lack of Gutter
- Detention Basins
- 1D Modeled Channel
- Chico City Limits
- Sphere of Influence

100-Year Model Results

- 0.25 foot - 1 foot
- 1 foot - 2 feet
- 2 feet - 3 feet
- 3 feet - 5 feet
- 5 feet - 7 feet
- 7 feet - 10 feet
- Greater than 10 feet

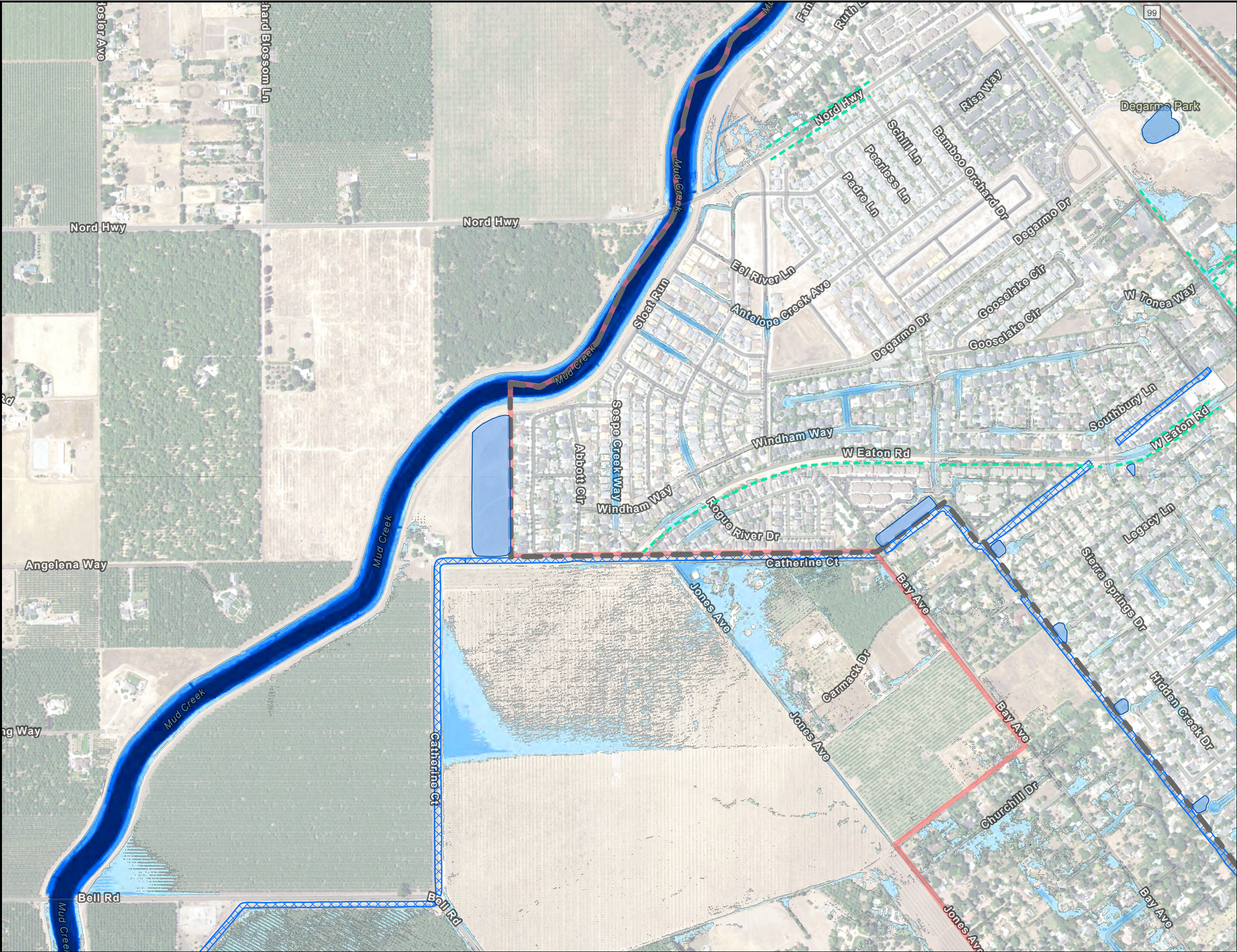
Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

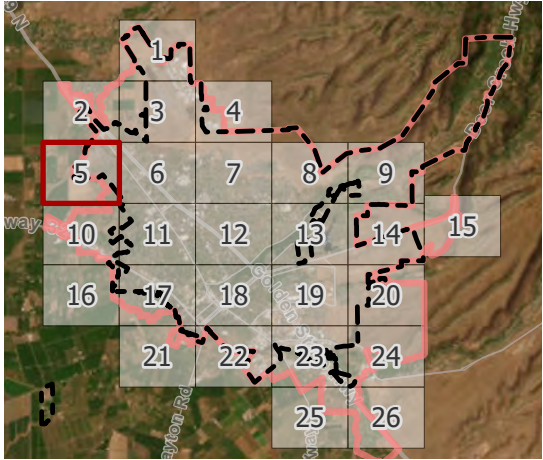
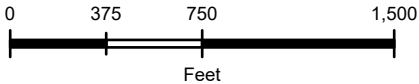
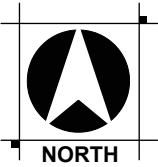
FIGURE 26-4



**100-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Lack of Curb and Gutter
- Lack of Gutter
- Detention Basins
- 1D Modeled Channel
- Chico City Limits
- Sphere of Influence

100-Year Model Results

- 0.25 foot - 1 foot
- 1 foot - 2 feet
- 2 feet - 3 feet
- 3 feet - 5 feet
- 5 feet - 7 feet
- 7 feet - 10 feet
- Greater than 10 feet

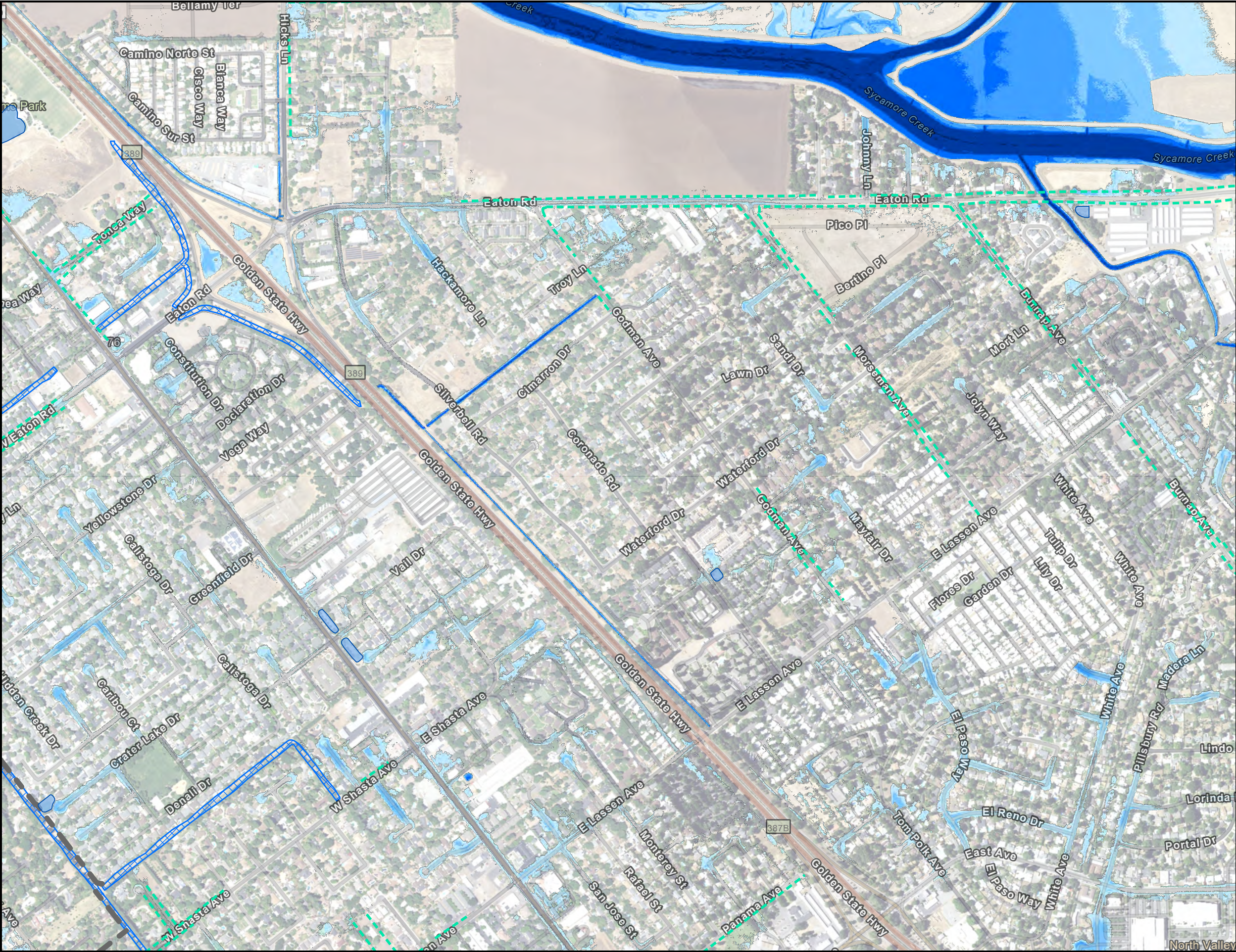
Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

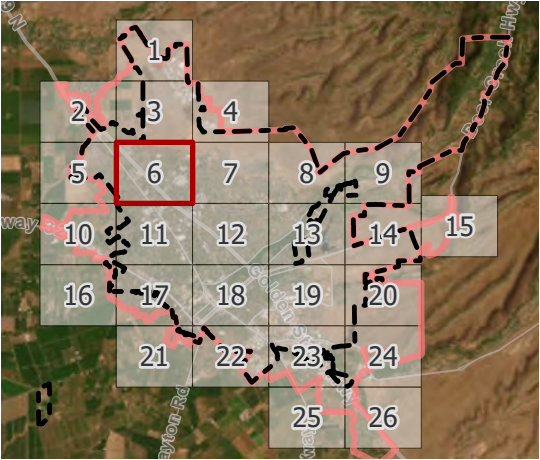
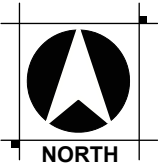
FIGURE 26-5



**100-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Lack of Curb and Gutter
- Lack of Gutter
- Detention Basins
- 1D Modeled Channel
- Chico City Limits
- Sphere of Influence

100-Year Model Results

- 0.25 foot - 1 foot
- 1 foot - 2 feet
- 2 feet - 3 feet
- 3 feet - 5 feet
- 5 feet - 7 feet
- 7 feet - 10 feet
- Greater than 10 feet

Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

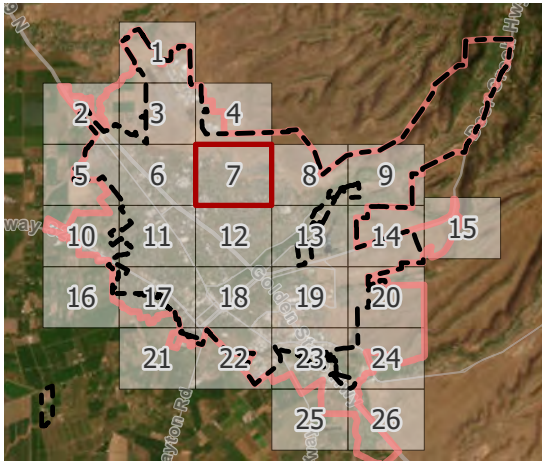
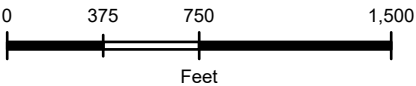
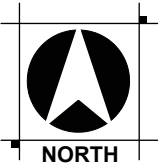
FIGURE 26-6



**100-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Lack of Curb and Gutter
- Lack of Gutter
- Detention Basins
- 1D Modeled Channel
- Chico City Limits
- Sphere of Influence

100-Year Model Results

- 0.25 foot - 1 foot
- 1 foot - 2 feet
- 2 feet - 3 feet
- 3 feet - 5 feet
- 5 feet - 7 feet
- 7 feet - 10 feet
- Greater than 10 feet

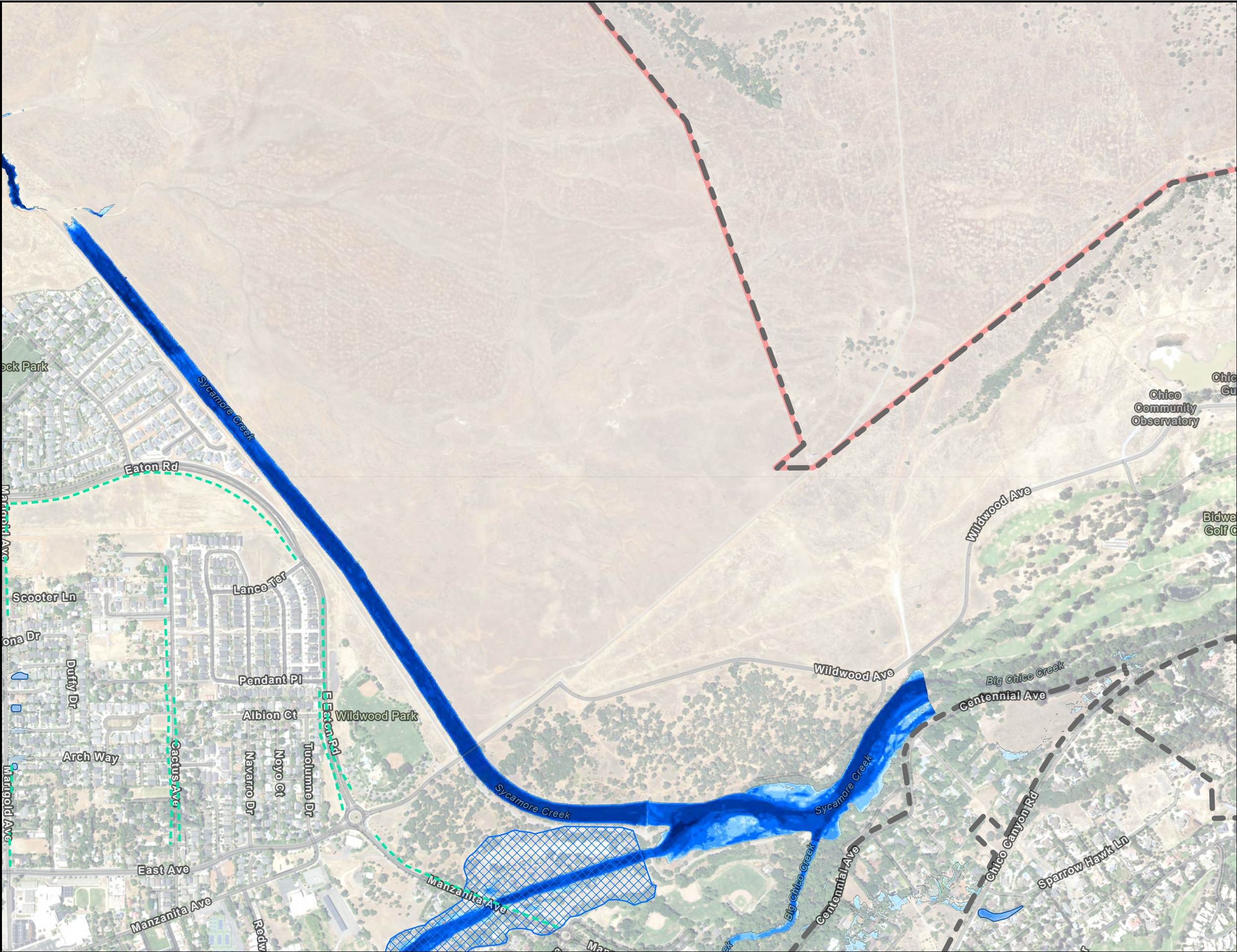
Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

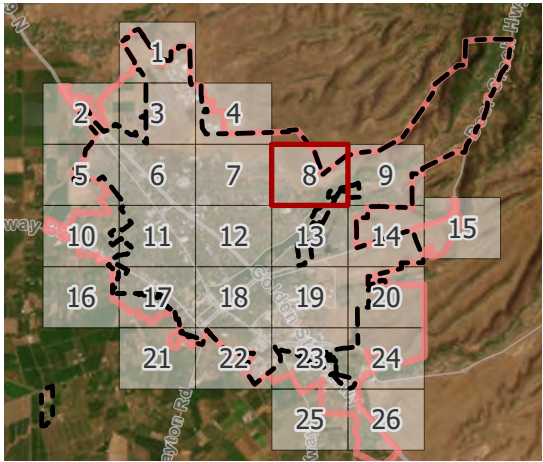
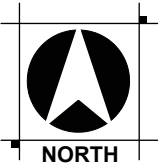
FIGURE 26-7



**100-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Lack of Curb and Gutter
- Lack of Gutter
- Detention Basins
- 1D Modeled Channel
- Chico City Limits
- Sphere of Influence

100-Year Model Results

- 0.25 foot - 1 foot
- 1 foot - 2 feet
- 2 feet - 3 feet
- 3 feet - 5 feet
- 5 feet - 7 feet
- 7 feet - 10 feet
- Greater than 10 feet

Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

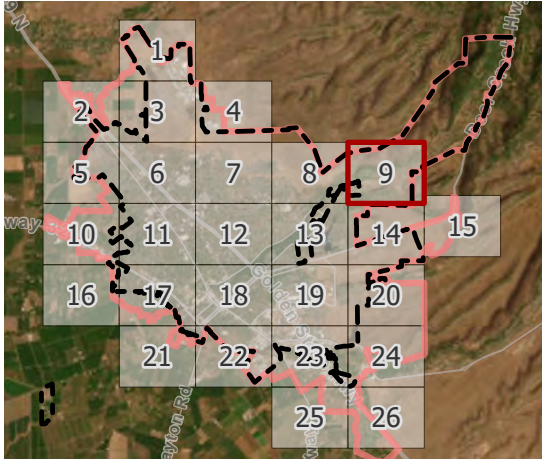
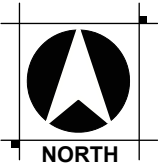
FIGURE 26-8



**100-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Lack of Curb and Gutter
- Lack of Gutter
- Detention Basins
- 1D Modeled Channel
- Chico City Limits
- Sphere of Influence

100-Year Model Results

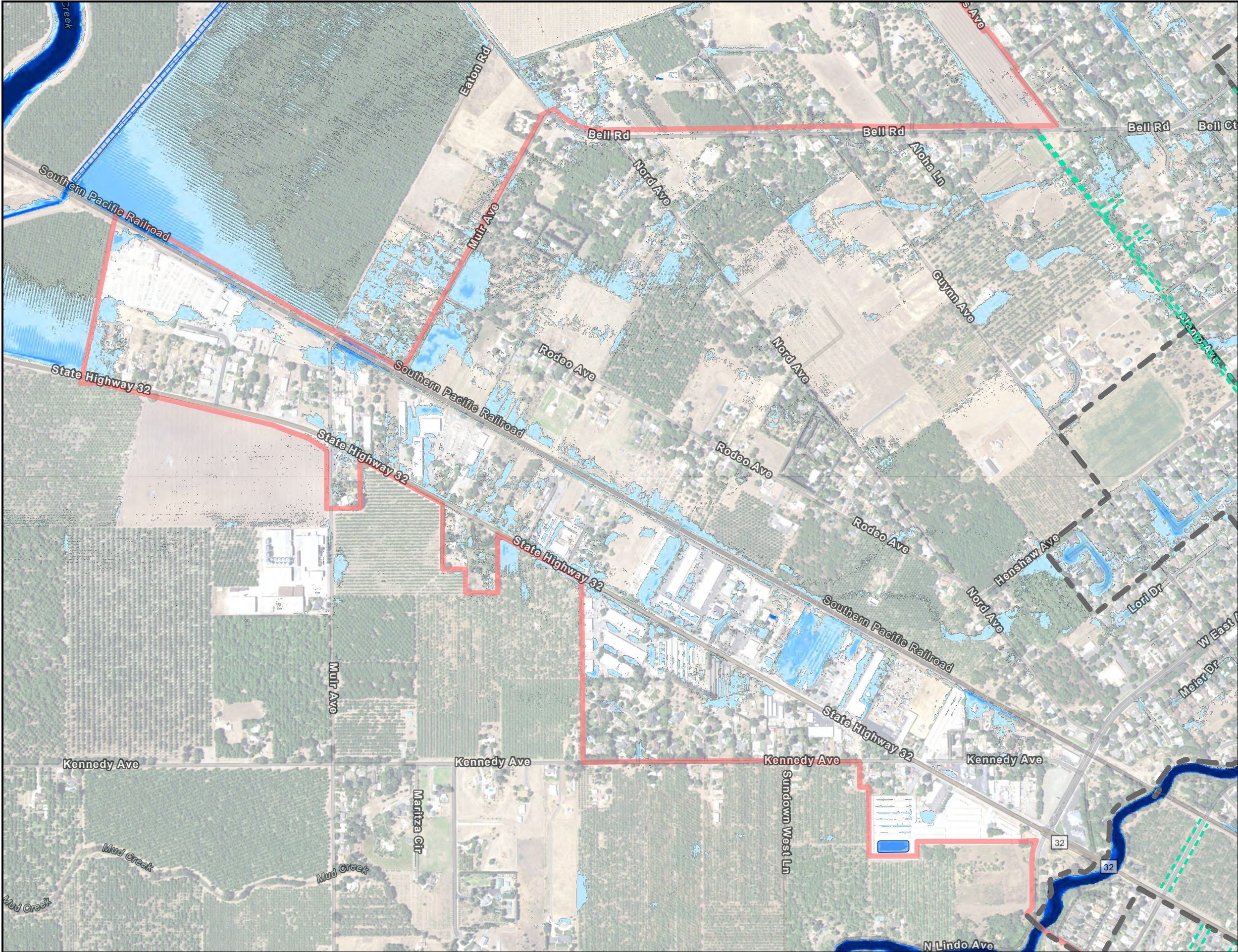
- 0.25 foot - 1 foot
- 1 foot - 2 feet
- 2 feet - 3 feet
- 3 feet - 5 feet
- 5 feet - 7 feet
- 7 feet - 10 feet
- Greater than 10 feet

Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



- NOTES**
1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
 2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

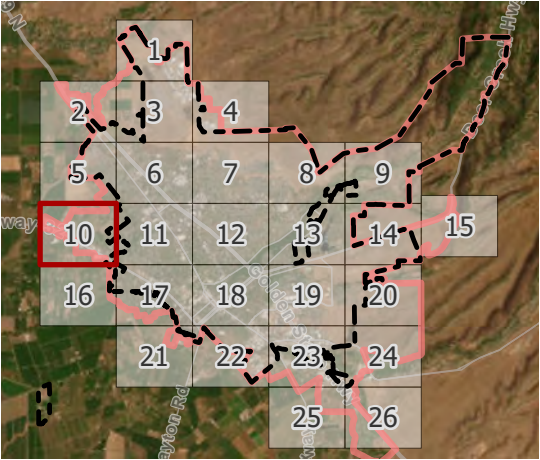
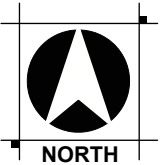
FIGURE 26-9



100-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Lack of Curb and Gutter
- Lack of Gutter
- Detention Basins
- 1D Modeled Channel
- Chico City Limits
- Sphere of Influence

100-Year Model Results

- 0.25 foot - 1 foot
- 1 foot - 2 feet
- 2 feet - 3 feet
- 3 feet - 5 feet
- 5 feet - 7 feet
- 7 feet - 10 feet
- Greater than 10 feet

Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

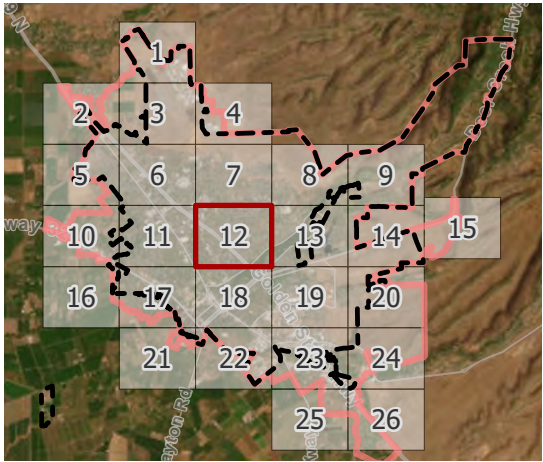
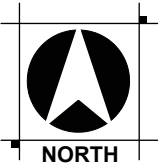
FIGURE 26-10



**100-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Lack of Curb and Gutter
- Lack of Gutter
- Detention Basins
- 1D Modeled Channel
- Chico City Limits
- Sphere of Influence

100-Year Model Results

- 0.25 foot - 1 foot
- 1 foot - 2 feet
- 2 feet - 3 feet
- 3 feet - 5 feet
- 5 feet - 7 feet
- 7 feet - 10 feet
- Greater than 10 feet

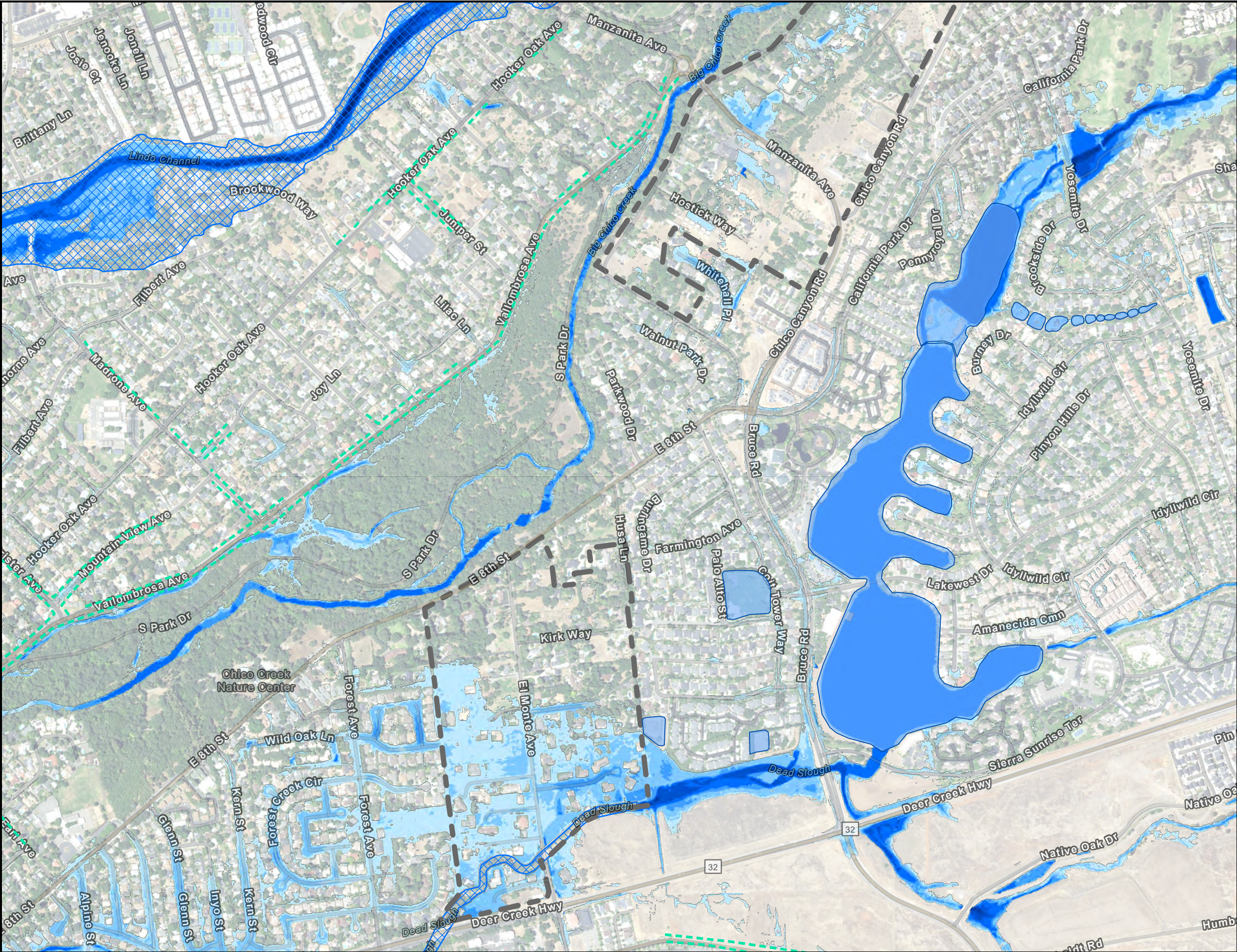
Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

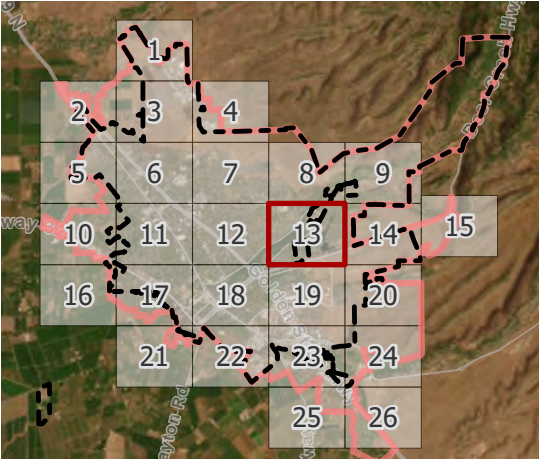
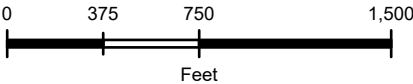
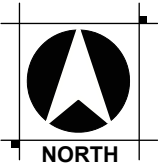
FIGURE 26-12



**100-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Lack of Curb and Gutter
- Lack of Gutter
- Detention Basins
- 1D Modeled Channel
- Chico City Limits
- Sphere of Influence

100-Year Model Results

- 0.25 foot - 1 foot
- 1 foot - 2 feet
- 2 feet - 3 feet
- 3 feet - 5 feet
- 5 feet - 7 feet
- 7 feet - 10 feet
- Greater than 10 feet

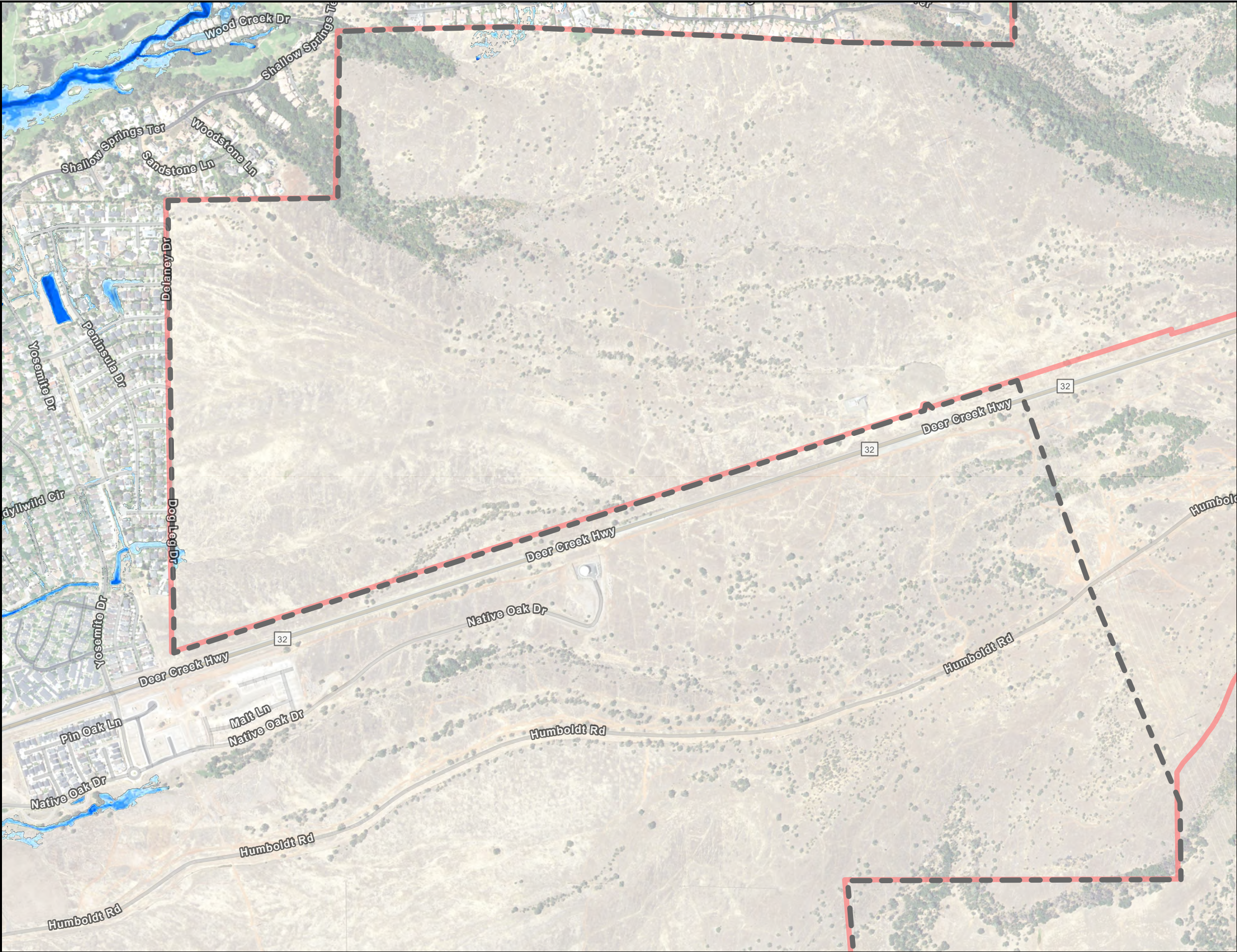
Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

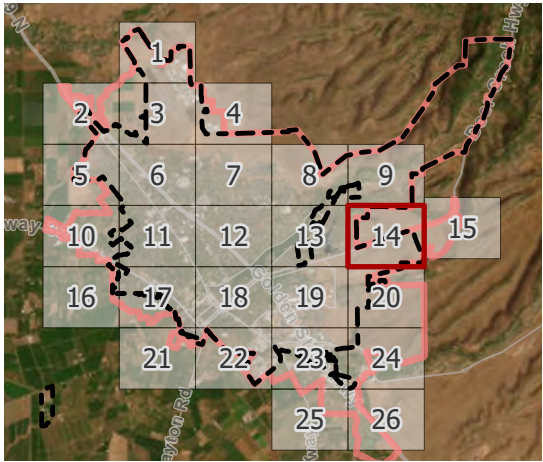
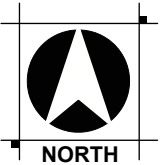
FIGURE 26-13



100-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Lack of Curb and Gutter
- Lack of Gutter
- Detention Basins
- 1D Modeled Channel
- Chico City Limits
- Sphere of Influence

100-Year Model Results

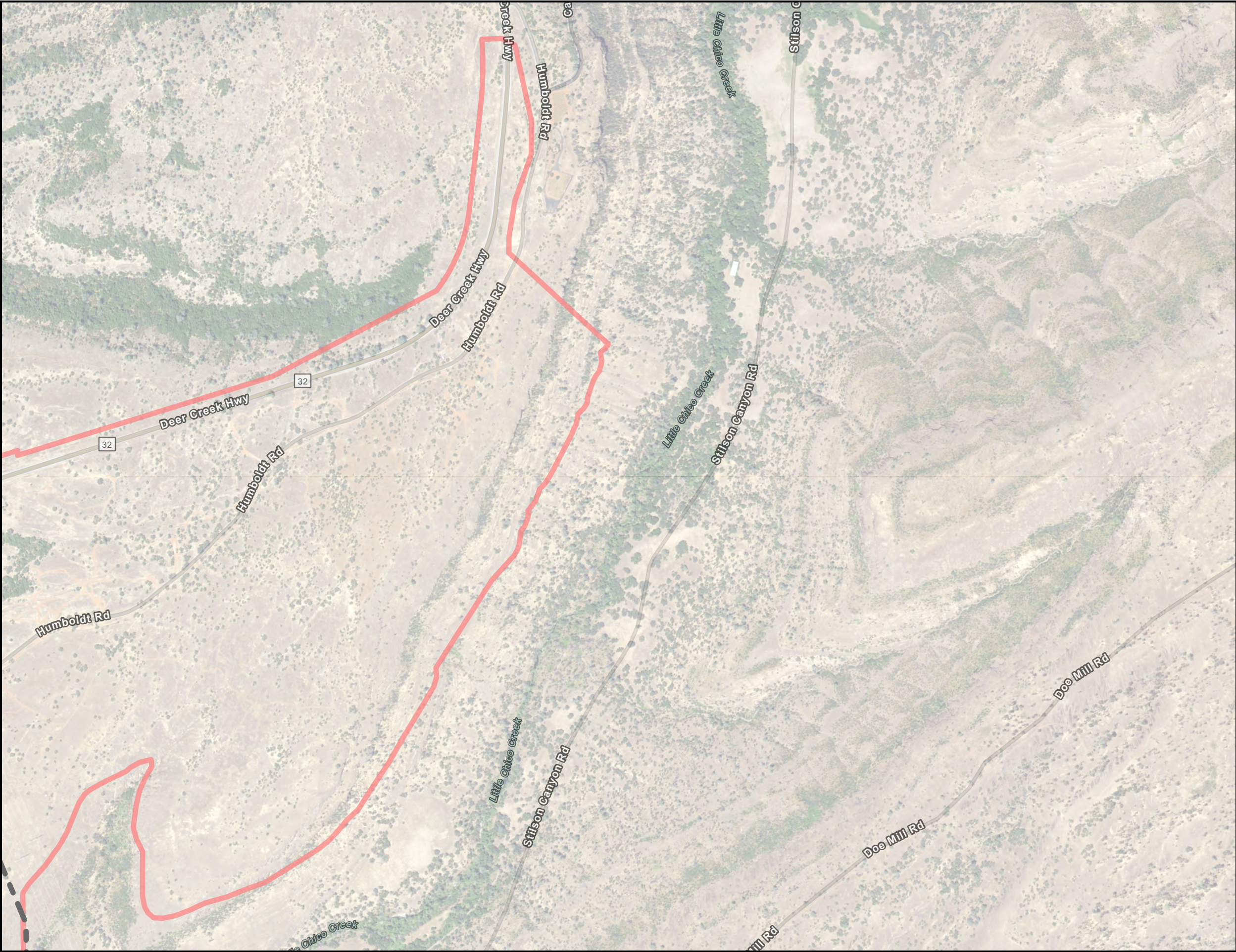
- 0.25 foot - 1 foot
- 1 foot - 2 feet
- 2 feet - 3 feet
- 3 feet - 5 feet
- 5 feet - 7 feet
- 7 feet - 10 feet
- Greater than 10 feet

Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES
1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

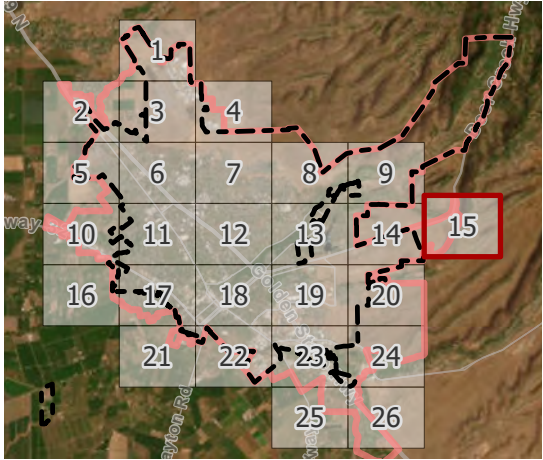
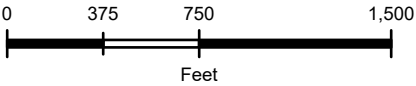
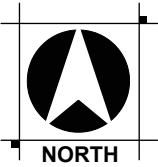
FIGURE 26-14



**100-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Lack of Curb and Gutter
- Lack of Gutter
- Detention Basins
- 1D Modeled Channel
- Chico City Limits
- Sphere of Influence

100-Year Model Results

- 0.25 foot - 1 foot
- 1 foot - 2 feet
- 2 feet - 3 feet
- 3 feet - 5 feet
- 5 feet - 7 feet
- 7 feet - 10 feet
- Greater than 10 feet

Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

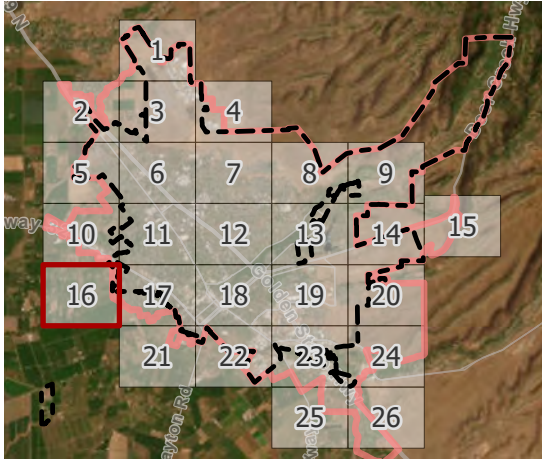
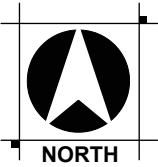
FIGURE 26-15



100-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Lack of Curb and Gutter
- Lack of Gutter
- Detention Basins
- 1D Modeled Channel
- Chico City Limits
- Sphere of Influence

100-Year Model Results

- 0.25 foot - 1 foot
- 1 foot - 2 feet
- 2 feet - 3 feet
- 3 feet - 5 feet
- 5 feet - 7 feet
- 7 feet - 10 feet
- Greater than 10 feet

Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES
1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

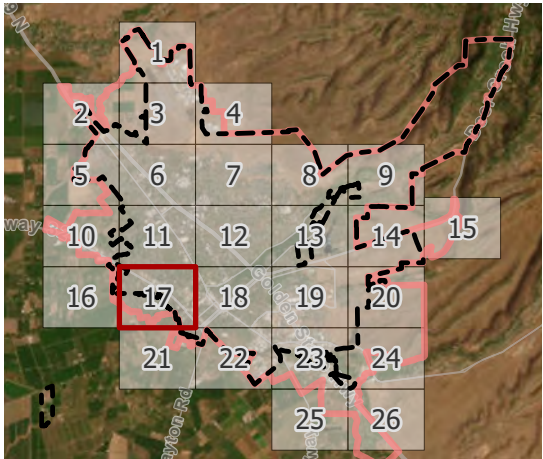
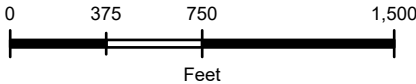
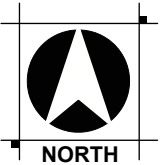
FIGURE 26-16



**100-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Lack of Curb and Gutter
- Lack of Gutter
- Detention Basins
- 1D Modeled Channel
- Chico City Limits
- Sphere of Influence

100-Year Model Results

- 0.25 foot - 1 foot
- 1 foot - 2 feet
- 2 feet - 3 feet
- 3 feet - 5 feet
- 5 feet - 7 feet
- 7 feet - 10 feet
- Greater than 10 feet

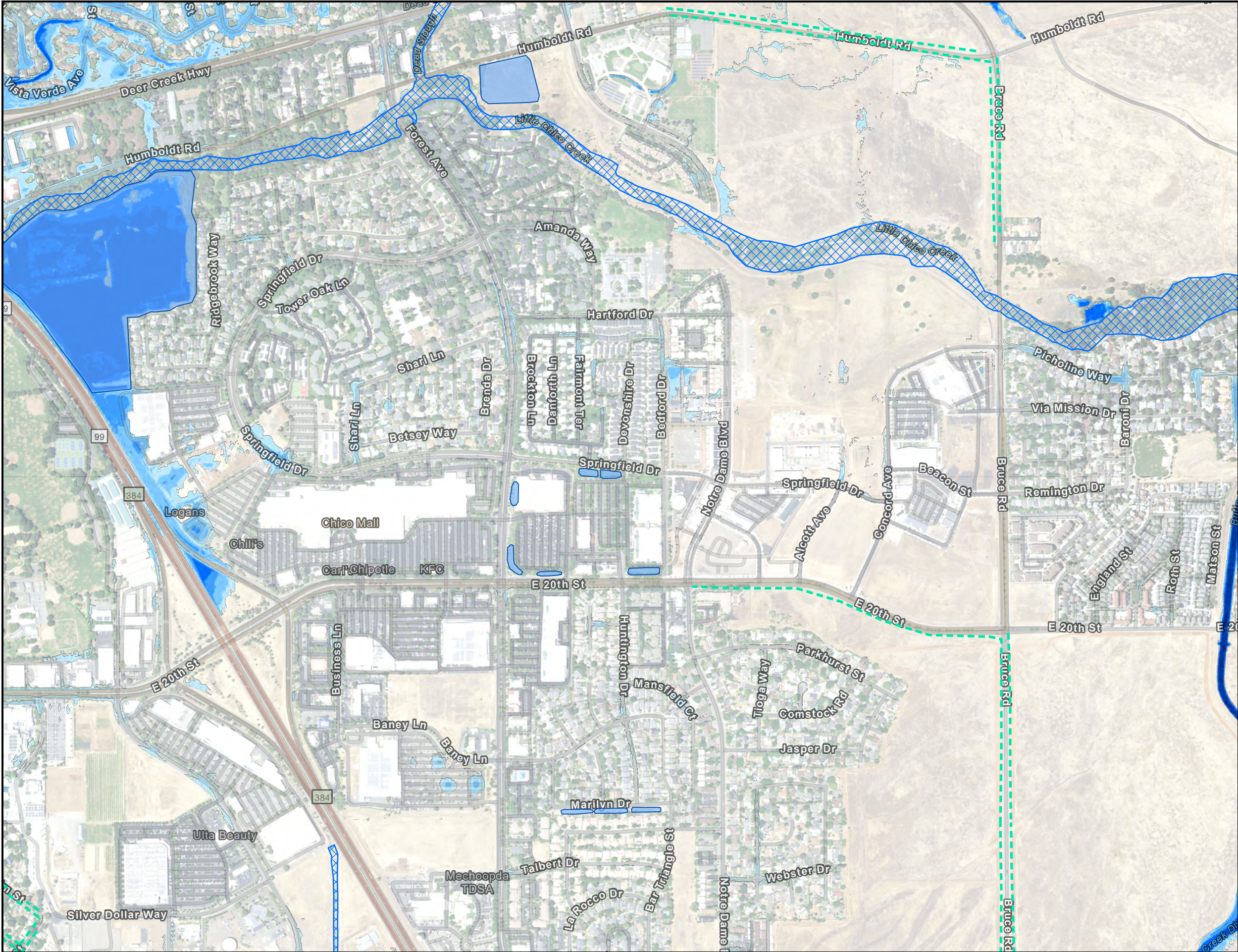
Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



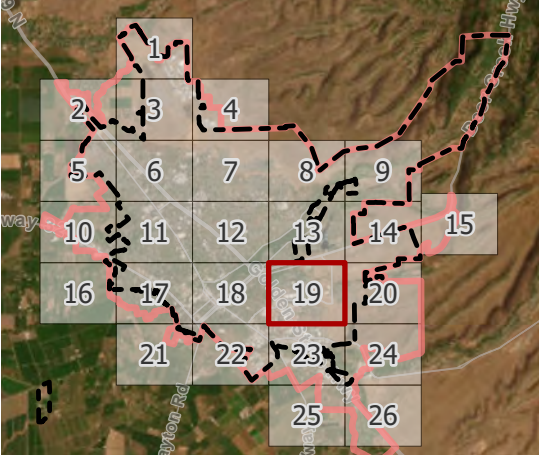
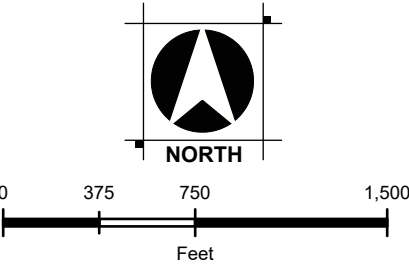
NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

FIGURE 26-17



**100-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**
STORM WATER MASTER PLAN
CITY OF CHICO
DECEMBER 2024



- Lack of Curb and Gutter
- Lack of Gutter
- Detention Basins
- 1D Modeled Channel
- Chico City Limits
- Sphere of Influence

- 100-Year Model Results
- 0.25 foot - 1 foot
 - 1 foot - 2 feet
 - 2 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 7 feet
 - 7 feet - 10 feet
 - Greater than 10 feet

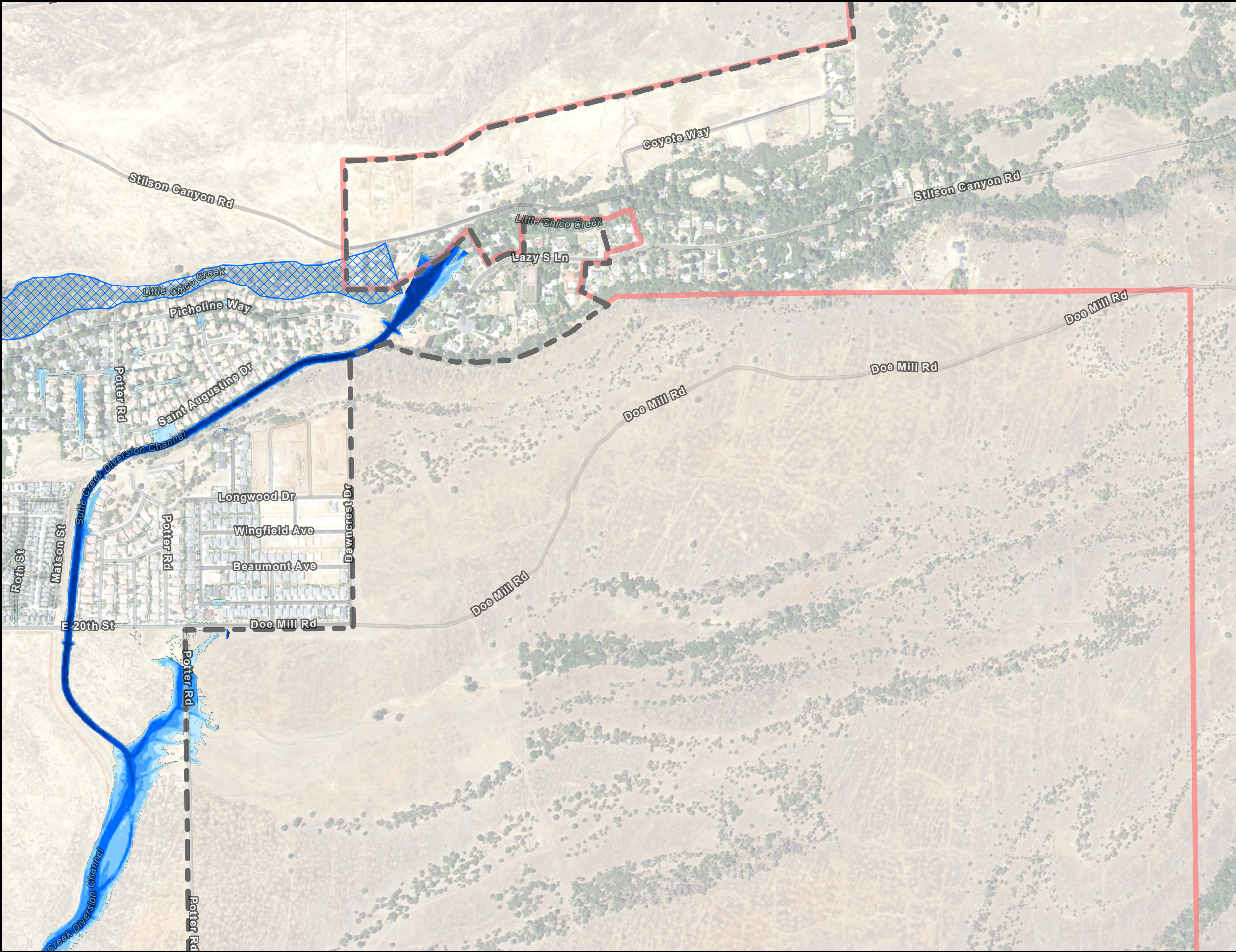
Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

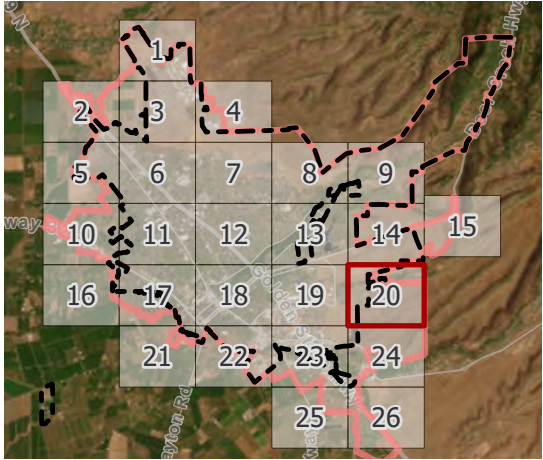
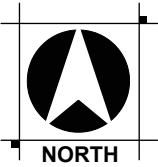
FIGURE 26-19



100-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Lack of Curb and Gutter
- Lack of Gutter
- Detention Basins
- 1D Modeled Channel
- Chico City Limits
- Sphere of Influence

100-Year Model Results

- 0.25 foot - 1 foot
- 1 foot - 2 feet
- 2 feet - 3 feet
- 3 feet - 5 feet
- 5 feet - 7 feet
- 7 feet - 10 feet
- Greater than 10 feet

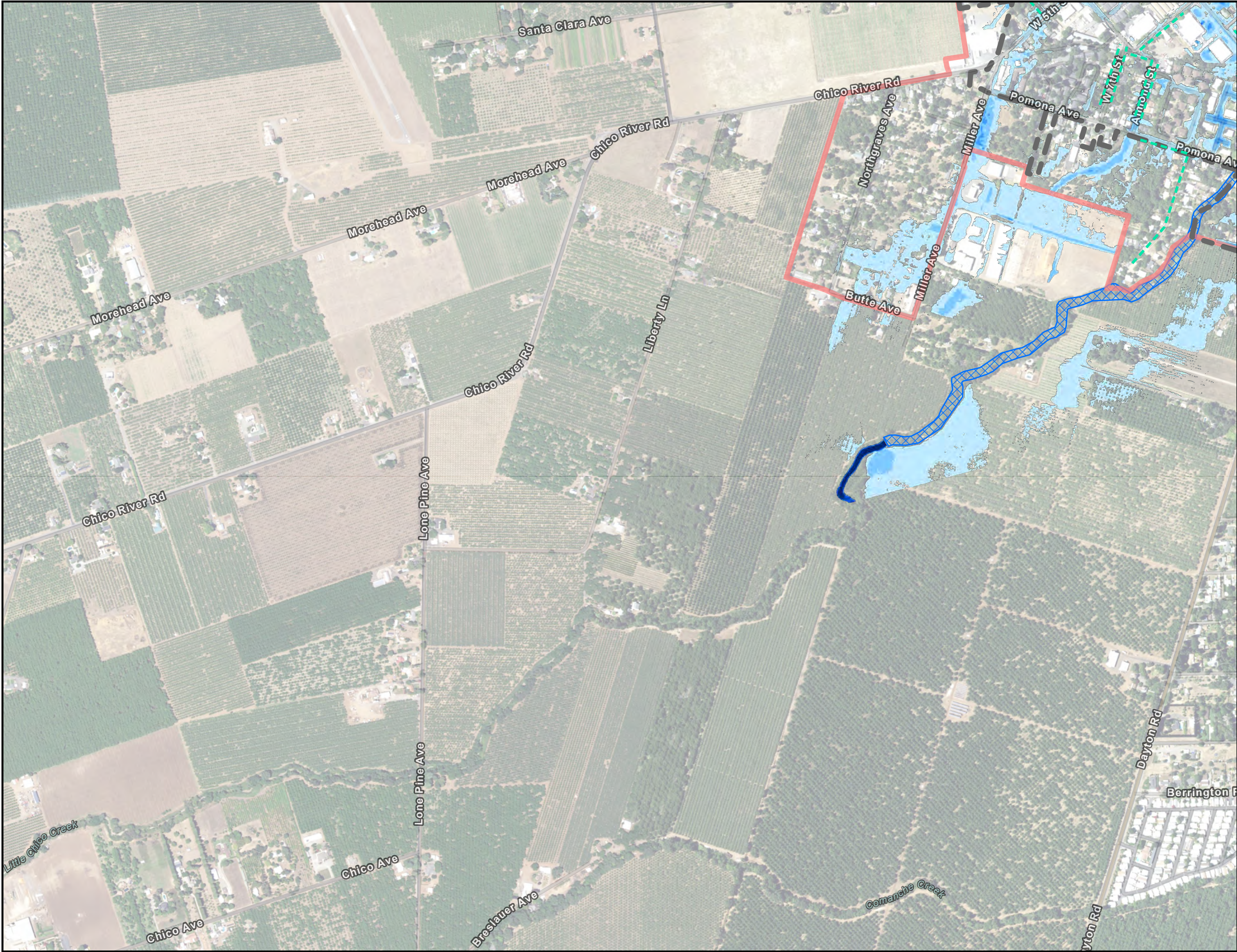
Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

- The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
- Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

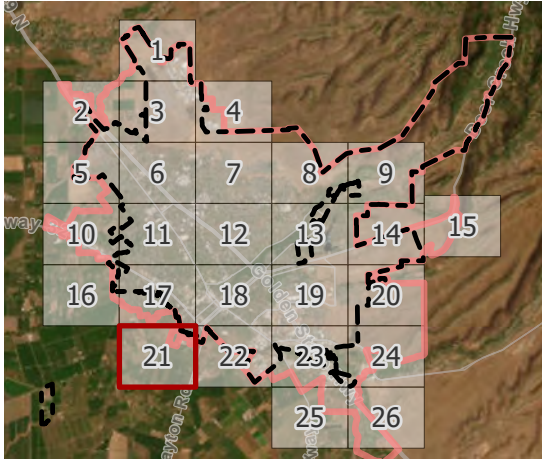
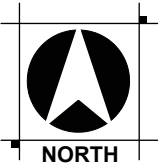
FIGURE 26-20



**100-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Lack of Curb and Gutter
- Lack of Gutter
- Detention Basins
- 1D Modeled Channel
- Chico City Limits
- Sphere of Influence

100-Year Model Results

- 0.25 foot - 1 foot
- 1 foot - 2 feet
- 2 feet - 3 feet
- 3 feet - 5 feet
- 5 feet - 7 feet
- 7 feet - 10 feet
- Greater than 10 feet

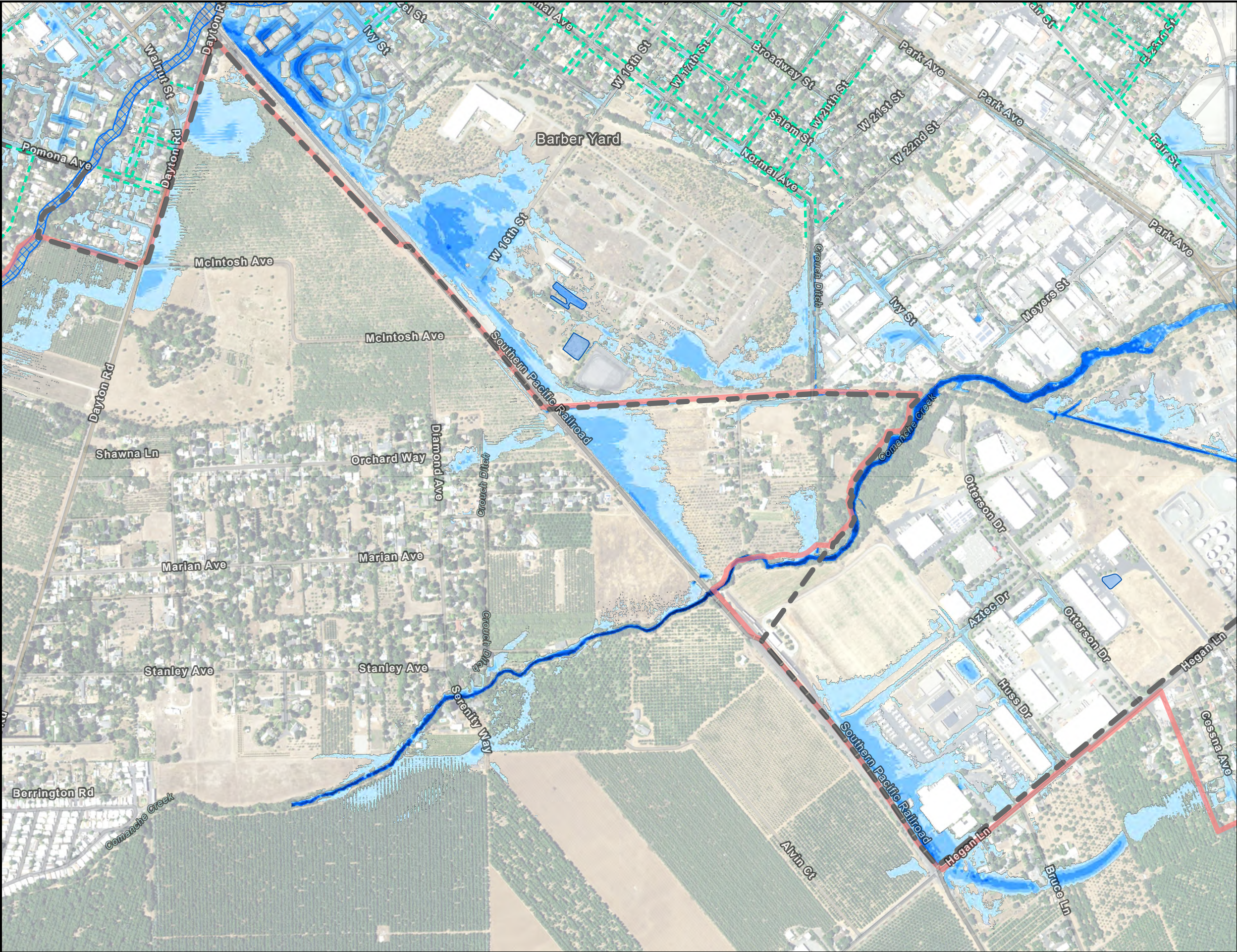
Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

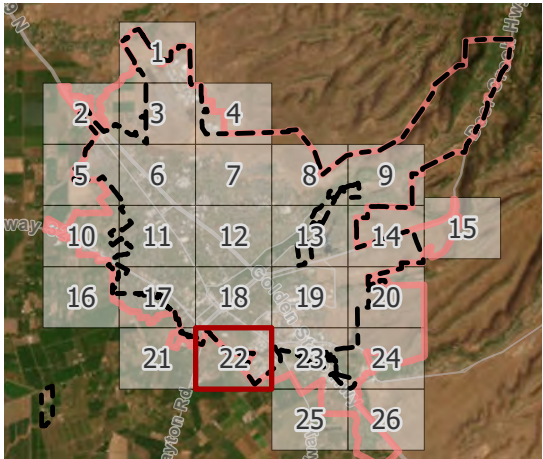
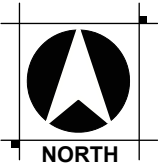
FIGURE 26-21



**100-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Lack of Curb and Gutter
- Lack of Gutter
- Detention Basins
- 1D Modeled Channel
- Chico City Limits
- Sphere of Influence

100-Year Model Results

- 0.25 foot - 1 foot
- 1 foot - 2 feet
- 2 feet - 3 feet
- 3 feet - 5 feet
- 5 feet - 7 feet
- 7 feet - 10 feet
- Greater than 10 feet

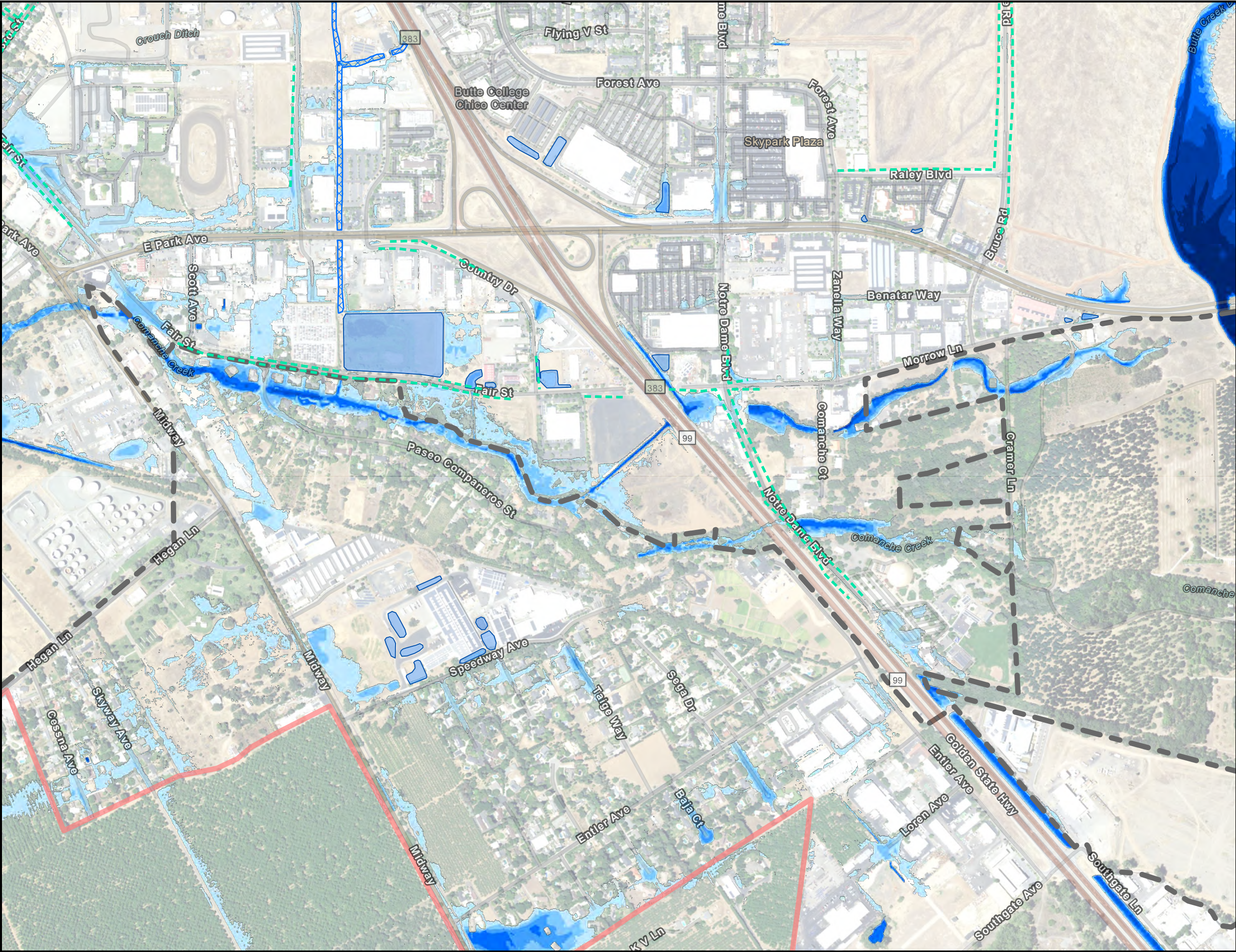
Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

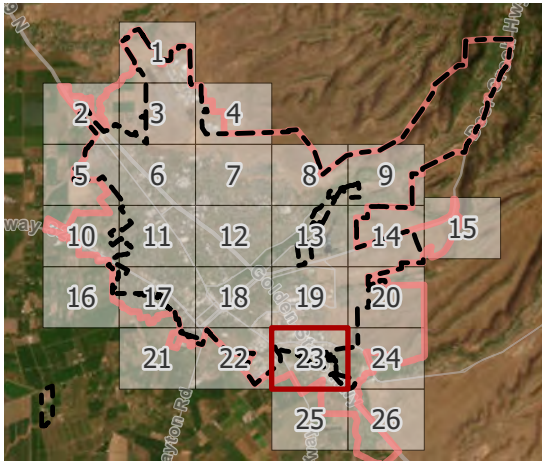
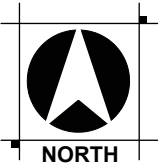
FIGURE 26-22



**100-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Lack of Curb and Gutter
- Lack of Gutter
- Detention Basins
- 1D Modeled Channel
- Chico City Limits
- Sphere of Influence

100-Year Model Results

- 0.25 foot - 1 foot
- 1 foot - 2 feet
- 2 feet - 3 feet
- 3 feet - 5 feet
- 5 feet - 7 feet
- 7 feet - 10 feet
- Greater than 10 feet

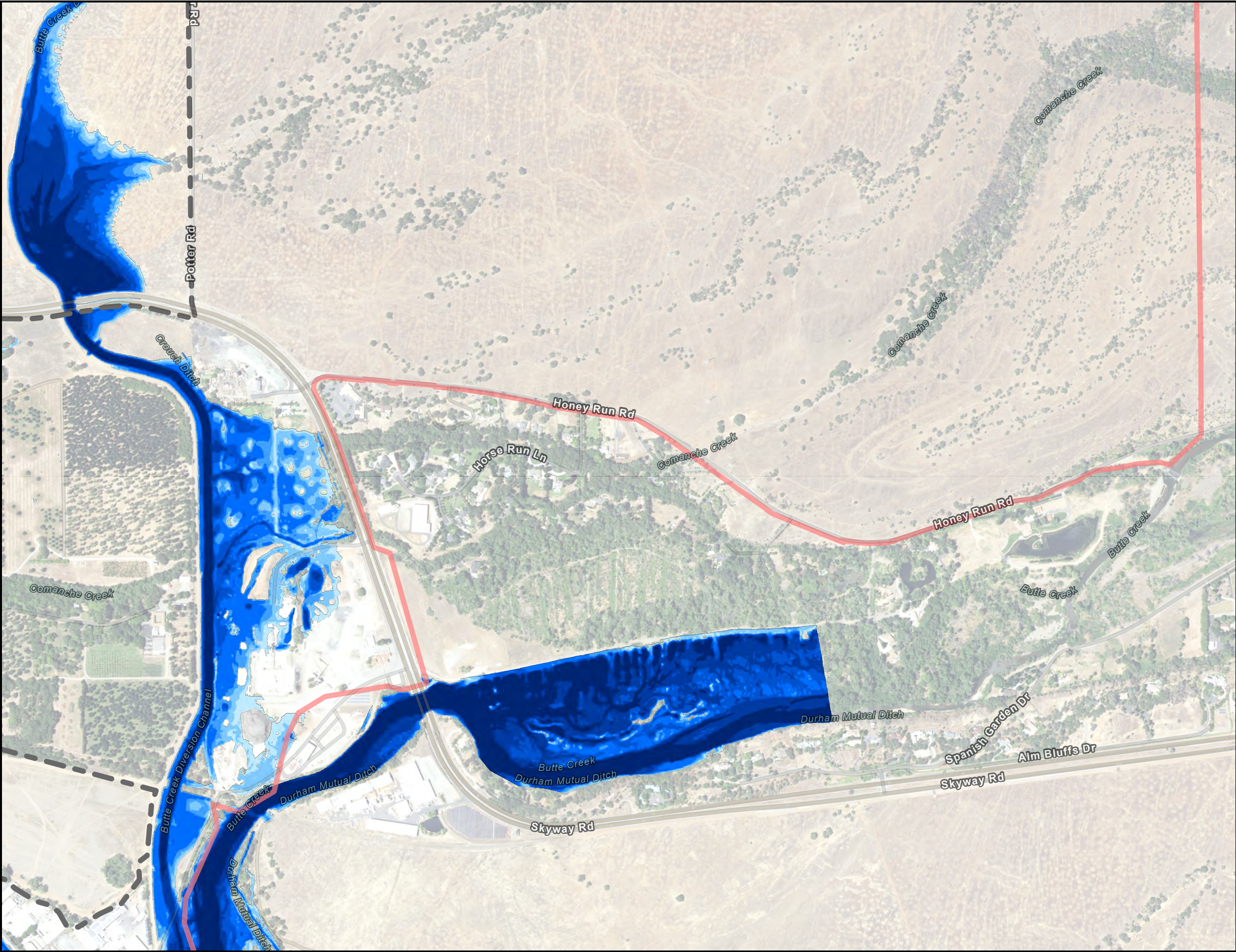
Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



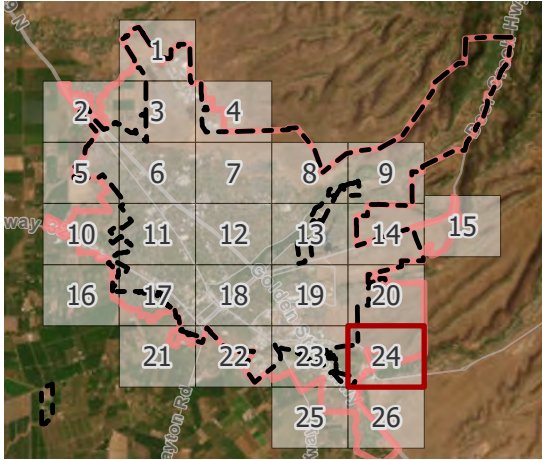
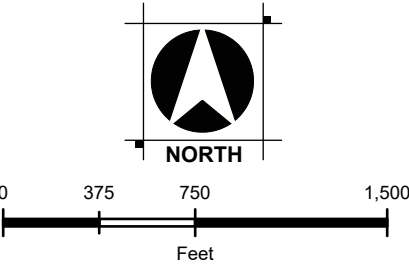
NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

FIGURE 26-23



**100-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**
STORM WATER MASTER PLAN
CITY OF CHICO
DECEMBER 2024



- Lack of Curb and Gutter
- Lack of Gutter
- Detention Basins
- 1D Modeled Channel
- Chico City Limits
- Sphere of Influence

- 100-Year Model Results
- 0.25 foot - 1 foot
 - 1 foot - 2 feet
 - 2 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 7 feet
 - 7 feet - 10 feet
 - Greater than 10 feet

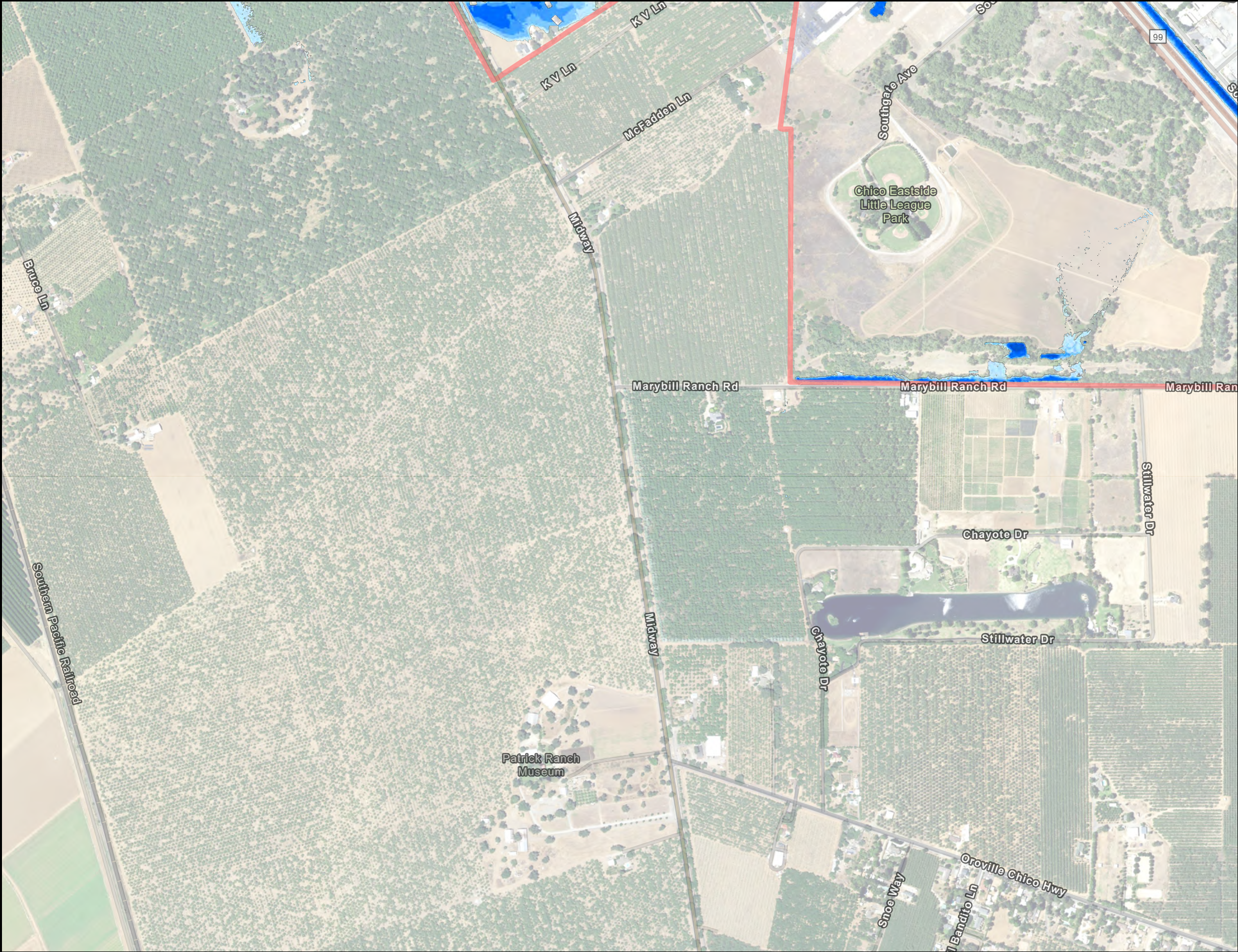
Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

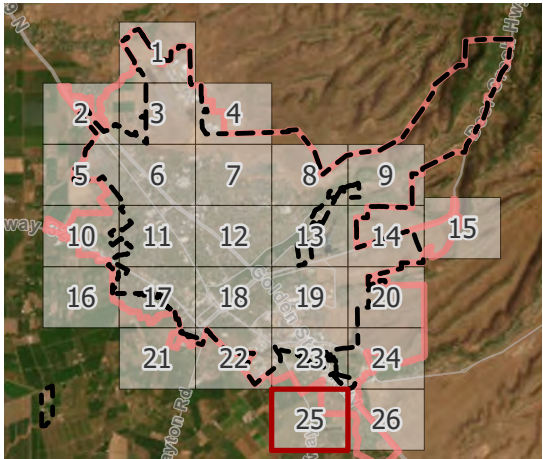
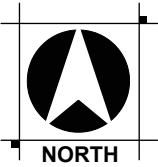
FIGURE 26-24



100-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Lack of Curb and Gutter
- Lack of Gutter
- Detention Basins
- 1D Modeled Channel
- Chico City Limits
- Sphere of Influence

100-Year Model Results

- 0.25 foot - 1 foot
- 1 foot - 2 feet
- 2 feet - 3 feet
- 3 feet - 5 feet
- 5 feet - 7 feet
- 7 feet - 10 feet
- Greater than 10 feet

Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

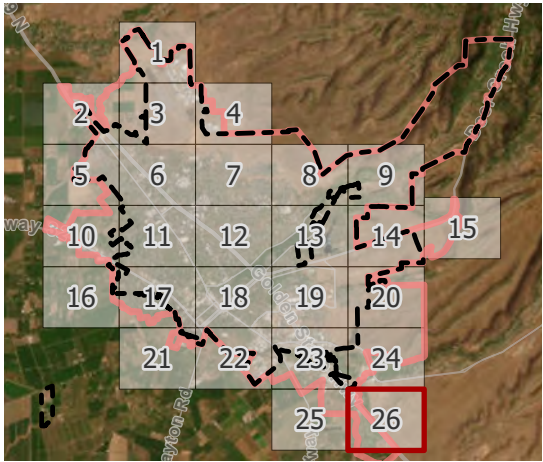
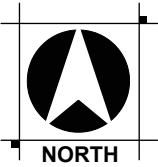
FIGURE 26-25



**100-YEAR FLOODING FROM
EXISTING DRAINAGE SYSTEM
MODEL RESULTS**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



- Lack of Curb and Gutter
- Lack of Gutter
- Detention Basins
- 1D Modeled Channel
- Chico City Limits
- Sphere of Influence

100-Year Model Results

- 0.25 foot - 1 foot
- 1 foot - 2 feet
- 2 feet - 3 feet
- 3 feet - 5 feet
- 5 feet - 7 feet
- 7 feet - 10 feet
- Greater than 10 feet

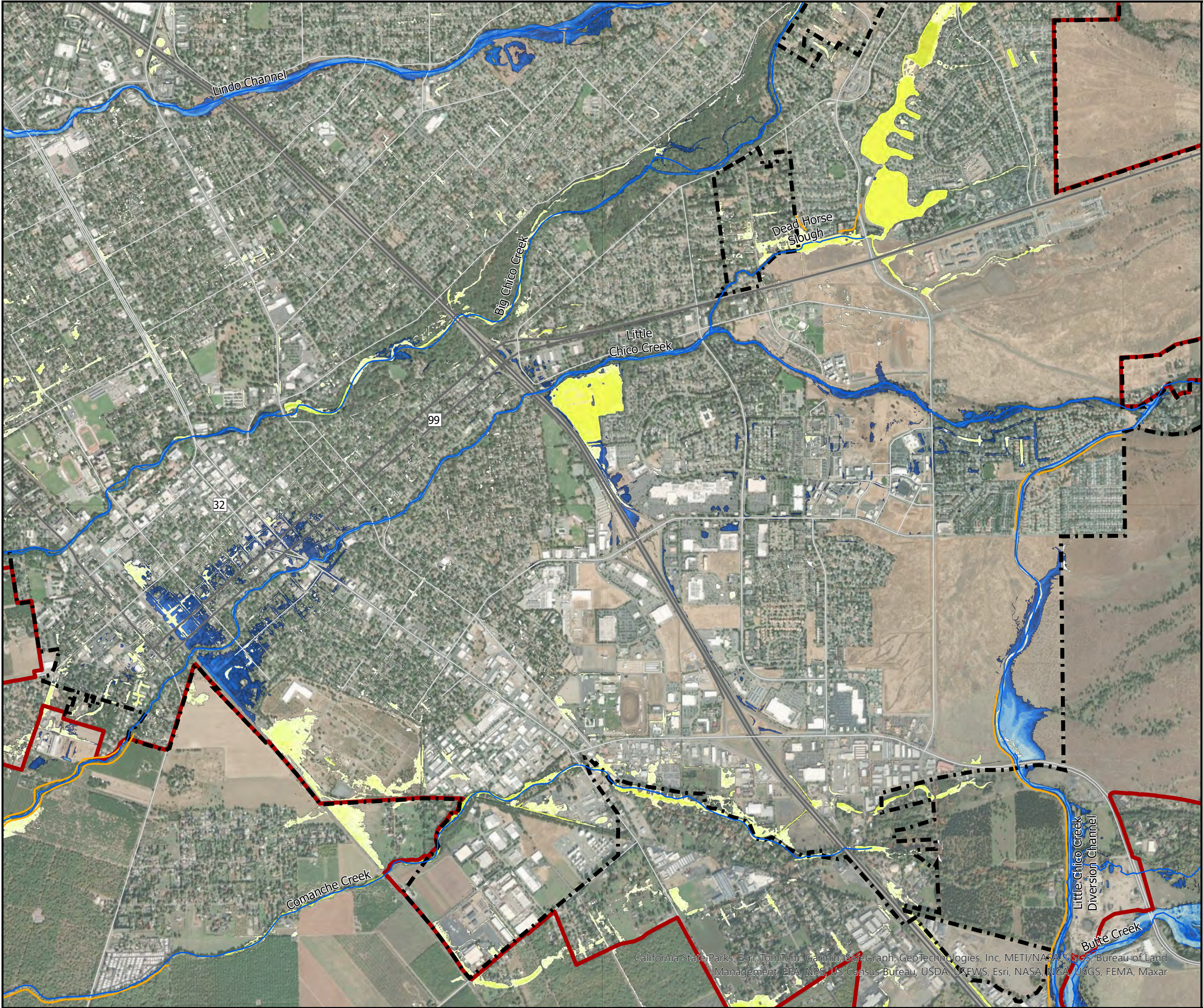
Source:
For layers used the sources of specific drainage
feature information is available in the SWMP GIS



NOTES

1. The model results may show more flooding than may be expected in some areas due to limitations associated with drainage system data, terrain accuracy and infiltration systems that were not modeled.
2. Flooding along streams is shown based on flood depths above the terrain data obtained from HEC-RAS models and is provided for illustration purposes only.

FIGURE 26-26

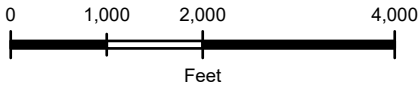
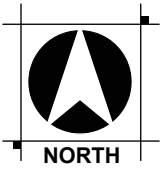


**10-YEAR ICM AND HEC-RAS COMPARISON
LITTLE CHICO CREEK, DEAD HORSE SLOUGH**

STORM WATER MASTER PLAN

CITY OF CHICO

DECEMBER 2024



Legend

- Streams
- Levee
- City Limits
- Sphere of Influence

10-Year HEC-RAS Model Results

- 0.25 foot - 1 foot
- 1 foot - 2 feet
- 2 feet - 3 feet
- 3 feet - 5 feet
- 5 feet - 7 feet
- 7 feet - 10 feet
- Greater than 10 feet

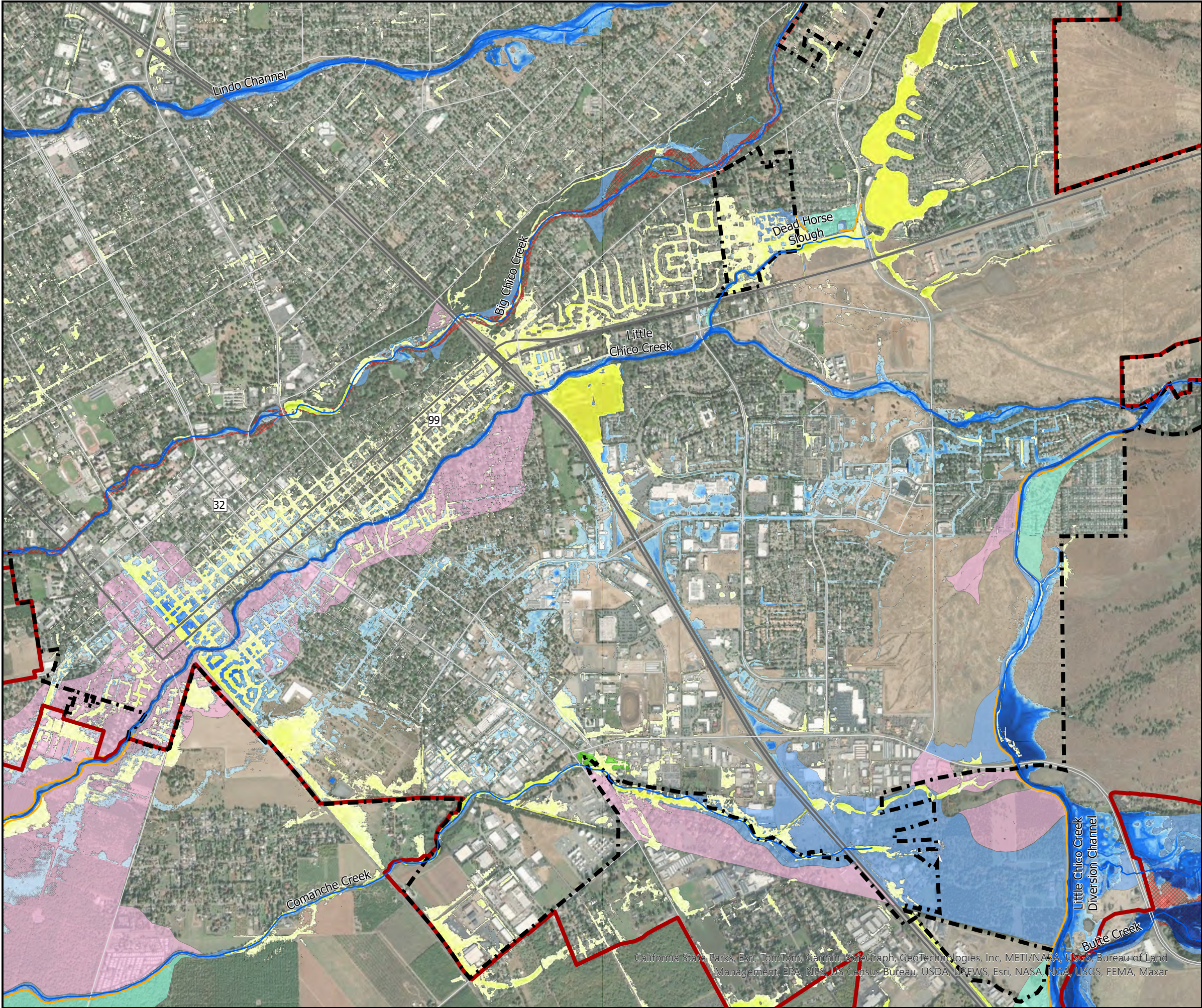
10-Year ICM Model Results

- 0.25 foot - 1 foot
- 1 foot - 2 feet
- 2 feet - 3 feet
- 3 feet - 5 feet
- 5 feet - 7 feet
- 7 feet - 10 feet
- Greater than 10 feet

NOTE:
HEC-RAS results are shown where the extent of flooding based on HEC-RAS is beyond that shown by ICM. HEC-RAS depths may be greater than ICM depths where ICM results are shown. Evaluation storms in HEC-RAS and ICM are different. Also, HEC-RAS does not include local flooding sources simulated in ICM.



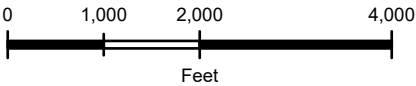
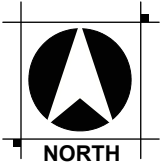
FIGURE 27



**100-YEAR ICM AND HEC-RAS COMPARISON
LITTLE CHICO CREEK, DEAD HORSE SLOUGH**

STORM WATER MASTER PLAN

CITY OF CHICO
DECEMBER 2024



Legend

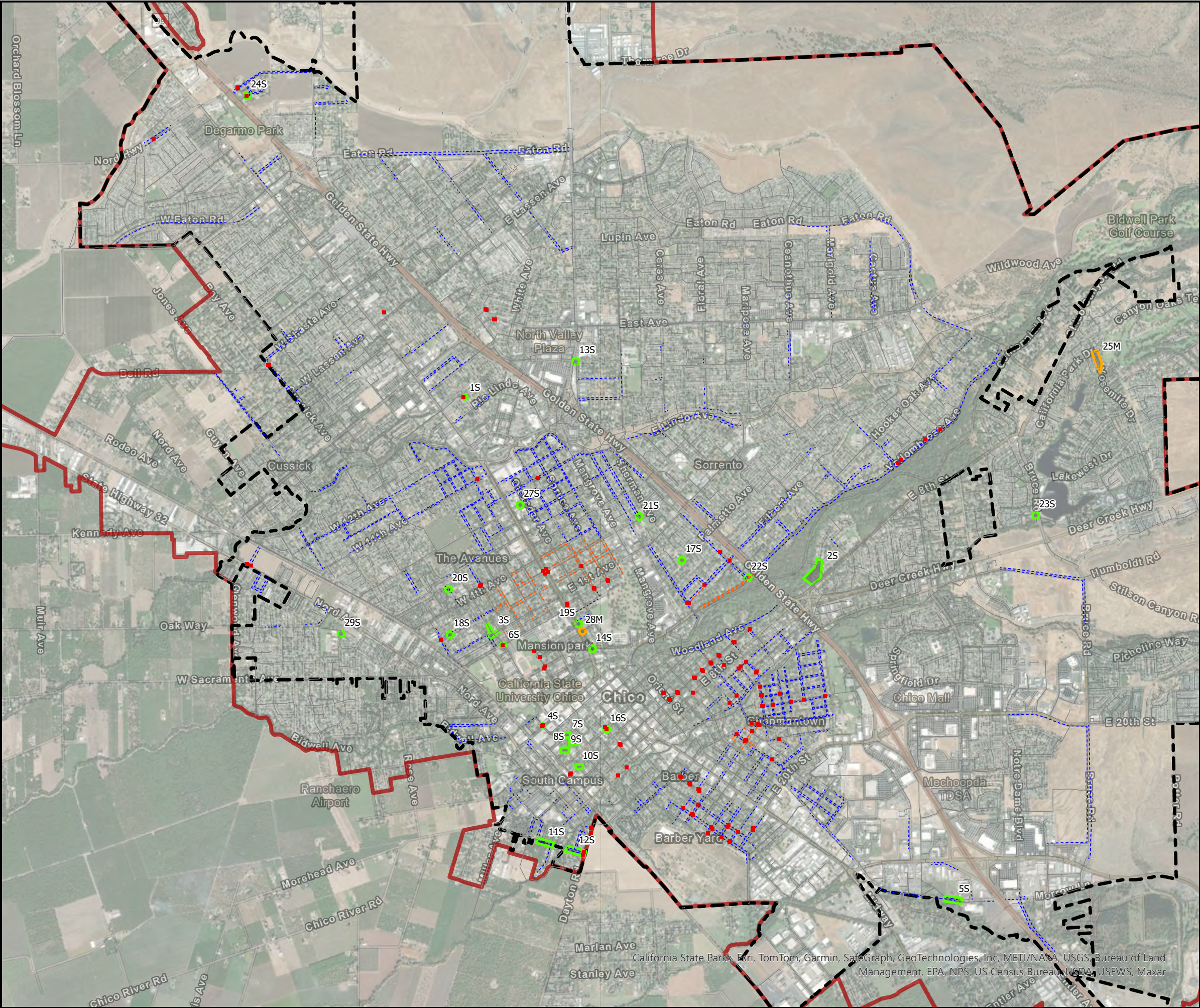
Streams	100-Year HEC-RAS Model Results
Levee	0.25 foot - 1 foot
City Limits	1 foot - 2 feet
Sphere of Influence	2 feet - 3 feet
Flood Hazard Zone	3 feet - 5 feet
A	5 feet - 7 feet
AE	7 feet - 10 feet
AH	Greater than 10 feet
AO	
Floodway	100-Year ICM Model Results
	0.25 foot - 1 foot
	1 foot - 2 feet
	2 feet - 3 feet
	3 feet - 5 feet
	5 feet - 7 feet
	7 feet - 10 feet
	Greater than 10 feet

NOTE:
HEC-RAS results are shown where the extent of flooding based on HEC-RAS is beyond that shown by ICM. HEC-RAS depths may be greater than ICM depths where ICM results are shown. Evaluation storms in HEC-RAS and ICM are different. Also, HEC-RAS does not include local flooding sources simulated in ICM.

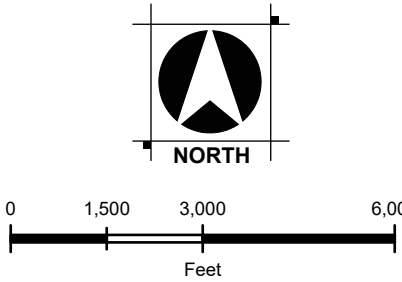


California State Parks, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA, USFWS, Esri, NASA, NGA, USGS, FEMA, Maxar

FIGURE 28



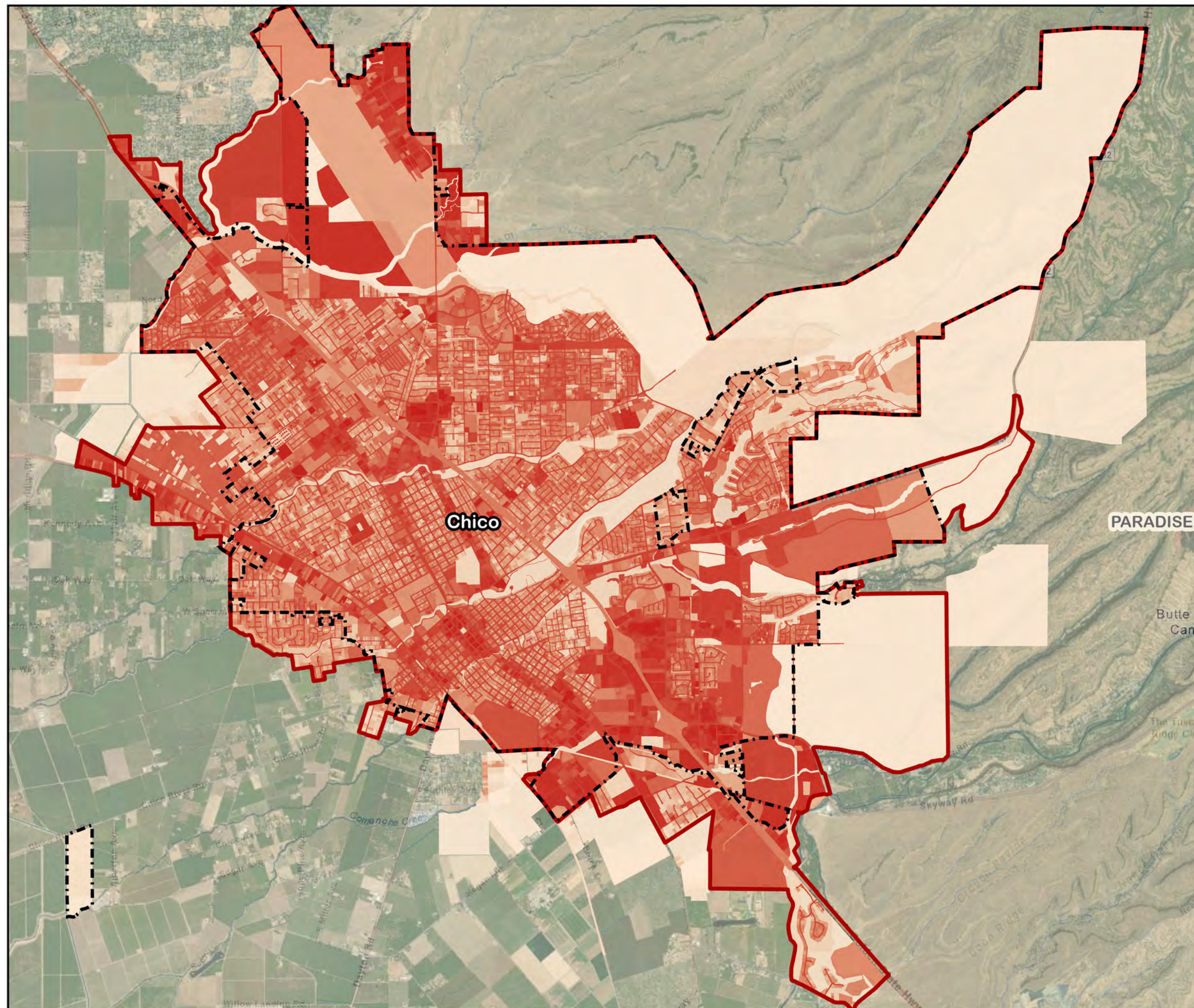
EXISTING DRAINAGE DEFICIENCIES
STORM WATER MASTER PLAN
CITY OF CHICO
DECEMBER 2024



Legend

- Inadequate Drop Inlet
- Links
- Lack of Curb and Gutter
- Lack of Gutter
- System Deficiency
- Maintenance Deficiency
- Chico City Limits
- Sphere of Influence

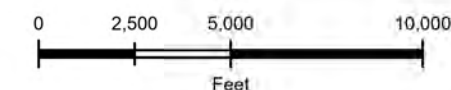
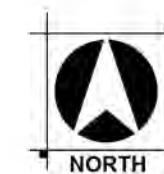
FIGURE 29



BUILD-OUT CONDITIONS IMPERVIOUSNESS

STORM WATER MASTER PLAN

CITY OF CHICO, CA
OCTOBER 2025



Legend

City Sphere of Influence

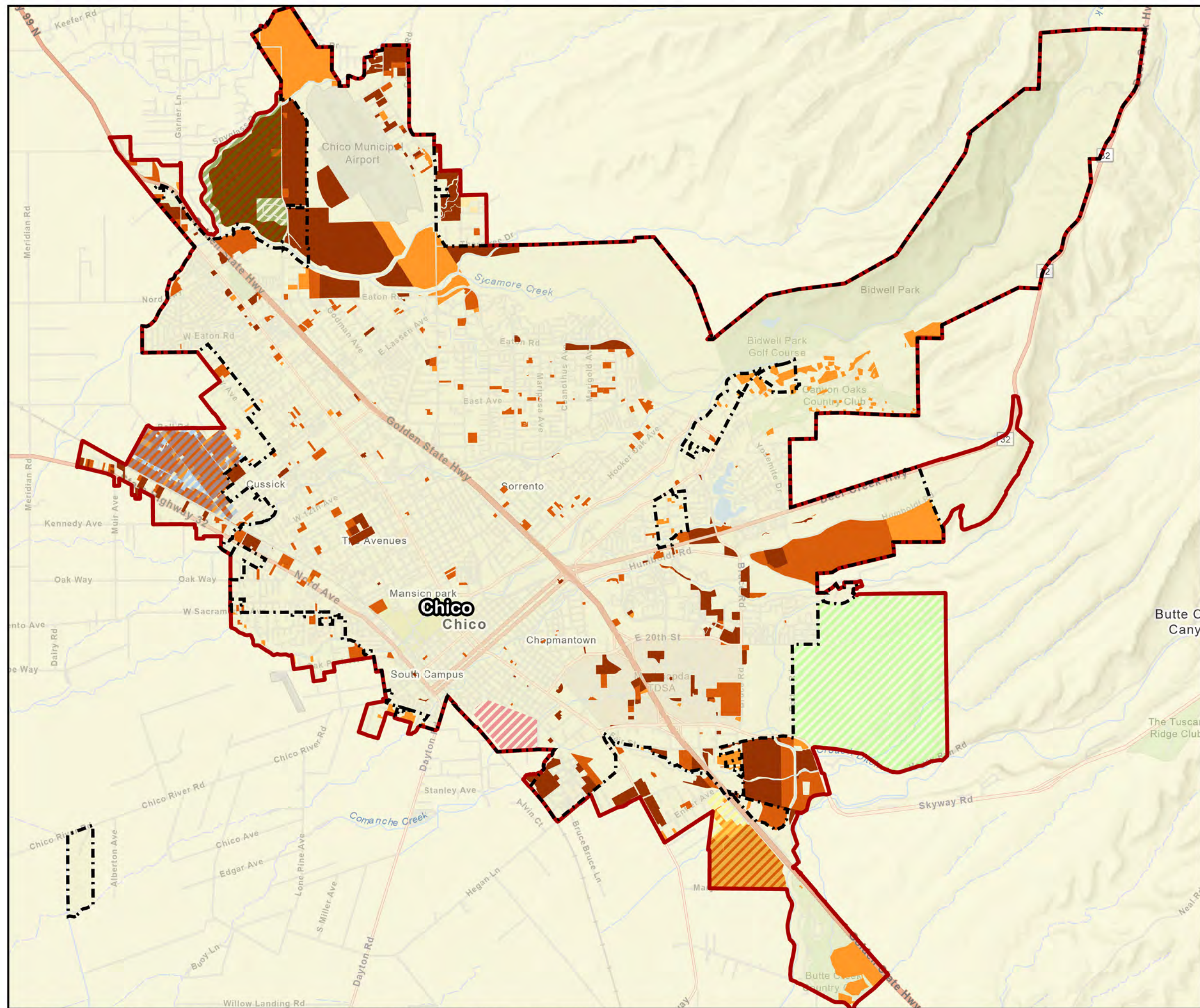
City Limits

Percent Impervious

0.0

100



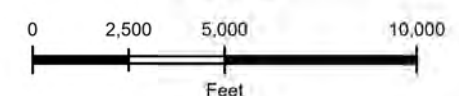


CHANGE IN IMPERVIOUSNESS

STORM WATER MASTER PLAN

CITY OF CHICO, CA

OCTOBER 2025



Legend

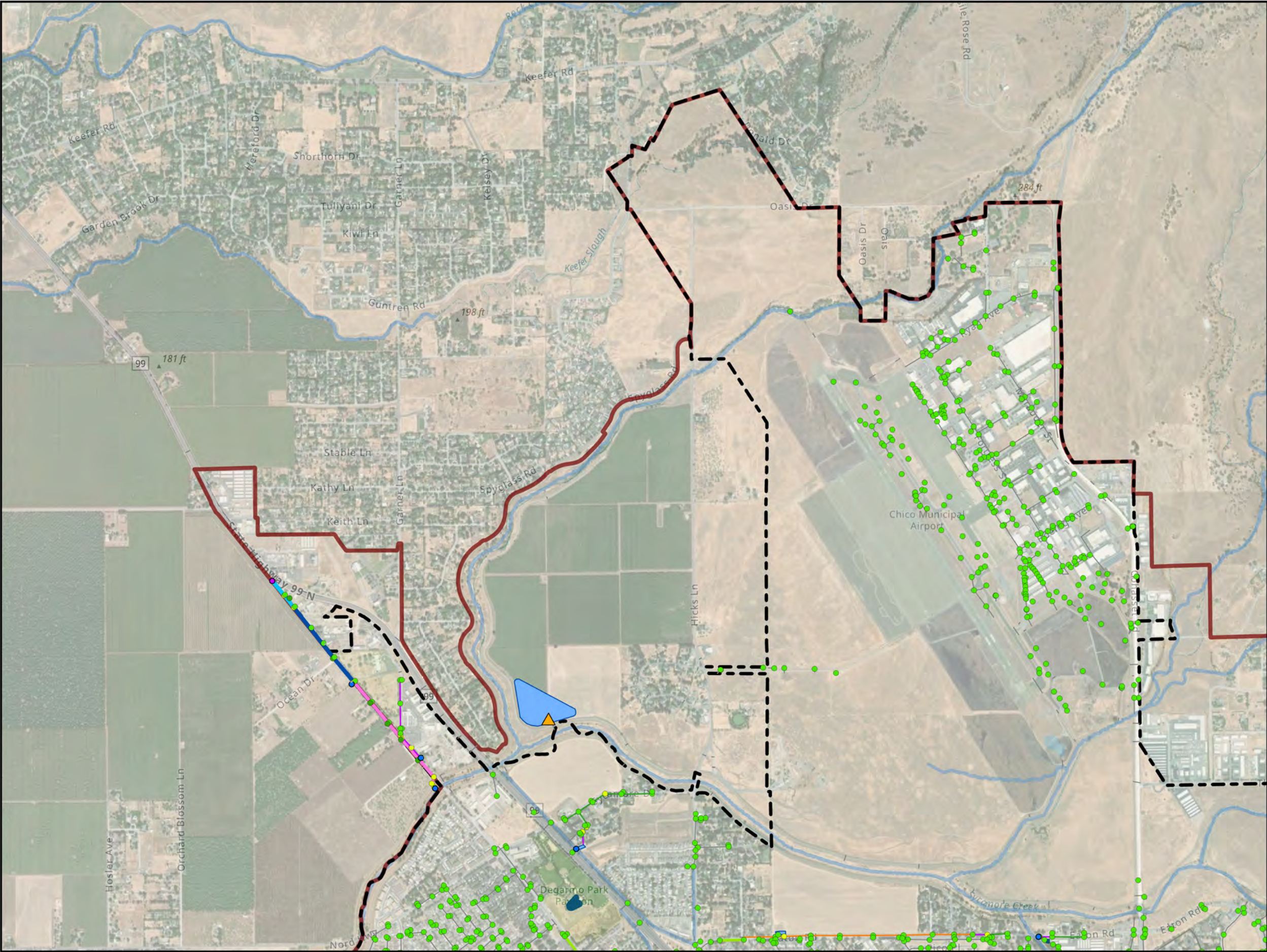
Change in Imperviousness

- < 2%
- 2 - 25%
- 25 - 50%
- 50 - 75%
- > 75%

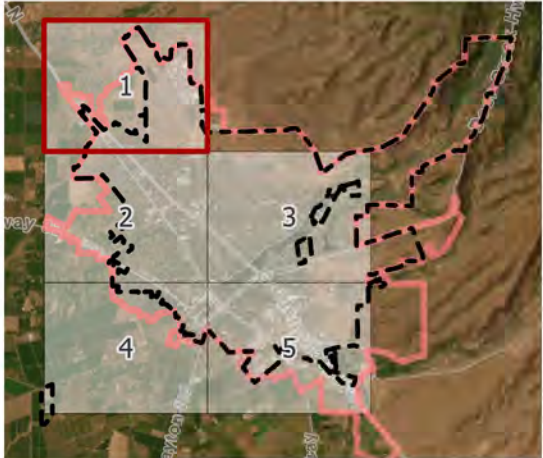
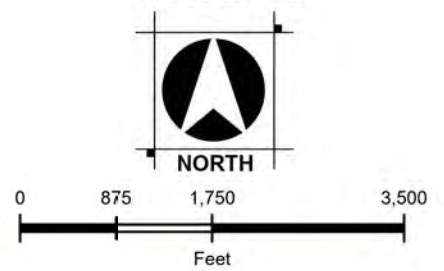
Development Areas

- Barber Yard (Not Part of Master Plan)
- Bell Muir
- North Chico
- South Entler
- Valley's Edge (Not Part of Master Plan)
- Sphere of Influence
- City Limits





**RECOMMENDED
DRAINAGE IMPROVEMENTS**
STORM WATER MASTER PLAN
CITY OF CHICO
OCTOBER 2025



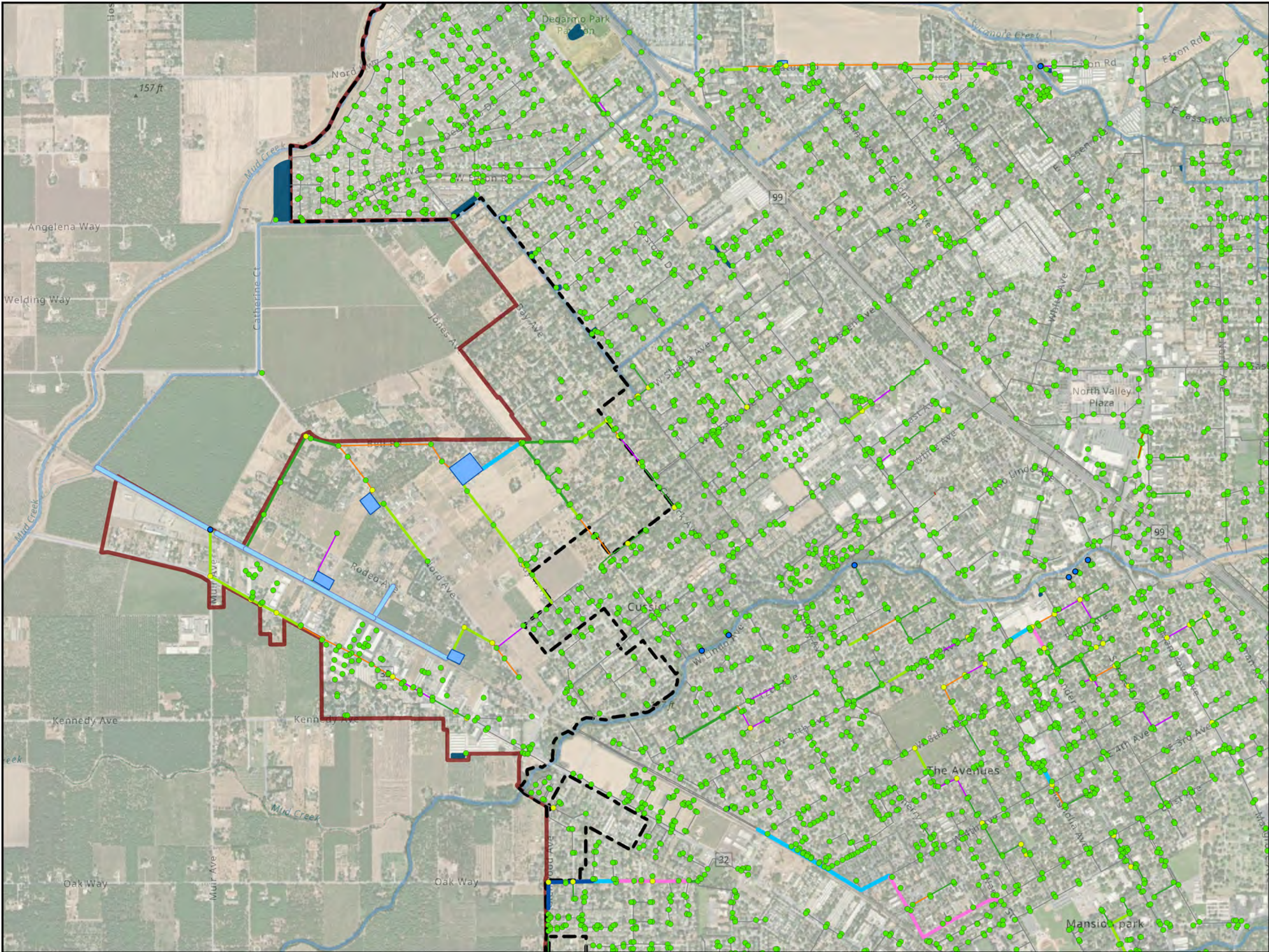
- Legend
- Proposed Drop Inlet
 - Proposed Field Inlet
 - Proposed Replacement Drop Inlet
 - Proposed Manhole/Junction
 - Proposed Outfall
 - Proposed Pipe Inlet
 - Proposed Pump
 - Existing Detention Basin
 - Existing Channel
 - Existing Pipe
 - Proposed Pipe Diameter (inches)
 - 12
 - 15
 - 18
 - 24
 - 30
 - 36
 - 42
 - 48
 - Proposed Replacement Pipe
 - Proposed Channel
 - Proposed Flap Gate
 - Proposed Basin
 - Sphere of Influence
 - Chico City Limits

Sources:
For layers used, sources of specific drainage feature information are available in the SWMP GIS

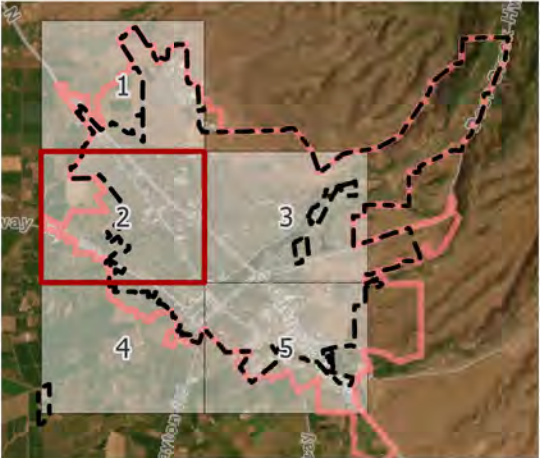
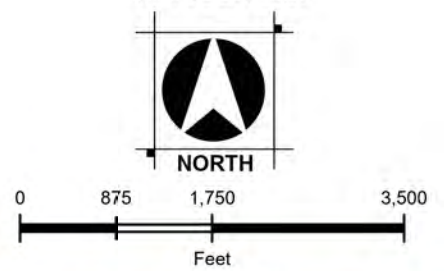


- NOTES**
1. The modeled storm drainage system map is a schematic representation of the drainage system for modeling purposes.
 2. Many detention basins are modeled as points, but the basins are presented using polygons for illustrative purposes. Pipes cross basins in the schematic because the pipes connect to the point that represents the basin in the model.
 3. The line segment lengths shown in the schematic do not necessarily match the modeled or actual pipe lengths.
 4. Barber Yard Basin and Outlet are shown, but associated costs for these facilities are not included in the SWMP planning costs.

FIGURE 32-1



**RECOMMENDED
DRAINAGE IMPROVEMENTS**
STORM WATER MASTER PLAN
CITY OF CHICO
OCTOBER 2025



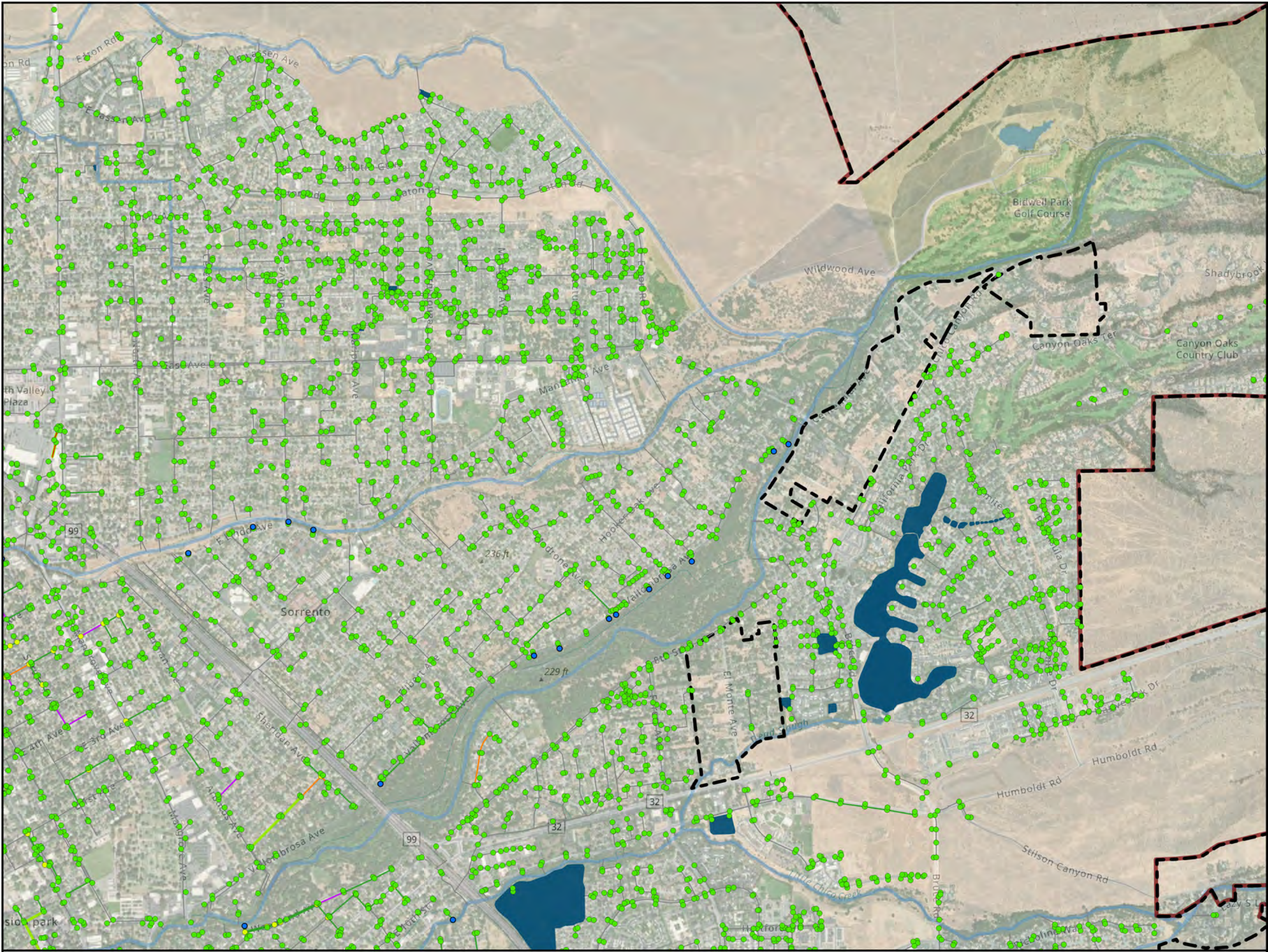
- Legend
- Proposed Drop Inlet
 - Proposed Field Inlet
 - Proposed Replacement Drop Inlet
 - Proposed Manhole/Junction
 - Proposed Outfall
 - Proposed Pipe Inlet
 - Proposed Pump
 - Existing Detention Basin
 - Existing Channel
 - Existing Pipe
 - Proposed Pipe Diameter (inches)
 - 12
 - 15
 - 18
 - 24
 - 30
 - 36
 - 42
 - 48
 - Proposed Replacement Pipe
 - Proposed Channel
 - Proposed Flap Gate
 - Proposed Basin
 - Sphere of Influence
 - Chico City Limits

Sources:
For layers used, sources of specific drainage feature information are available in the SWMP GIS

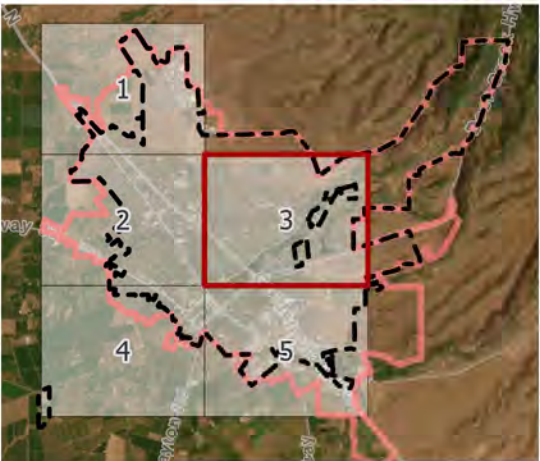
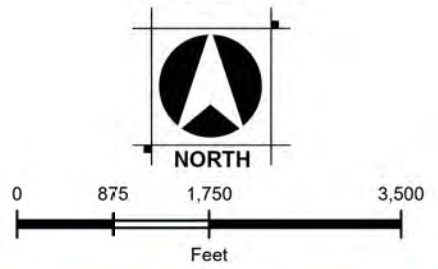


- NOTES**
1. The modeled storm drainage system map is a schematic representation of the drainage system for modeling purposes.
 2. Many detention basins are modeled as points, but the basins are presented using polygons for illustrative purposes. Pipes cross basins in the schematic because the pipes connect to the point that represents the basin in the model.
 3. The line segment lengths shown in the schematic do not necessarily match the modeled or actual pipe lengths.
 4. Barber Yard Basin and Outlet are shown, but associated costs for these facilities are not included in the SWMP planning costs.

FIGURE 32-2



**RECOMMENDED
DRAINAGE IMPROVEMENTS**
STORM WATER MASTER PLAN
CITY OF CHICO
OCTOBER 2025



Legend

- Proposed Drop Inlet
- Proposed Field Inlet
- Proposed Replacement Drop Inlet
- Proposed Manhole/Junction
- Proposed Outfall
- Proposed Pipe Inlet
- Proposed Pump
- Existing Detention Basin
- Existing Channel
- Existing Pipe
- Proposed Pipe Diameter (inches)
 - 12
 - 15
 - 18
 - 24
 - 30
 - 36
 - 42
 - 48
- Proposed Replacement Pipe
- Proposed Channel
- Proposed Flap Gate
- Proposed Basin
- Sphere of Influence
- Chico City Limits

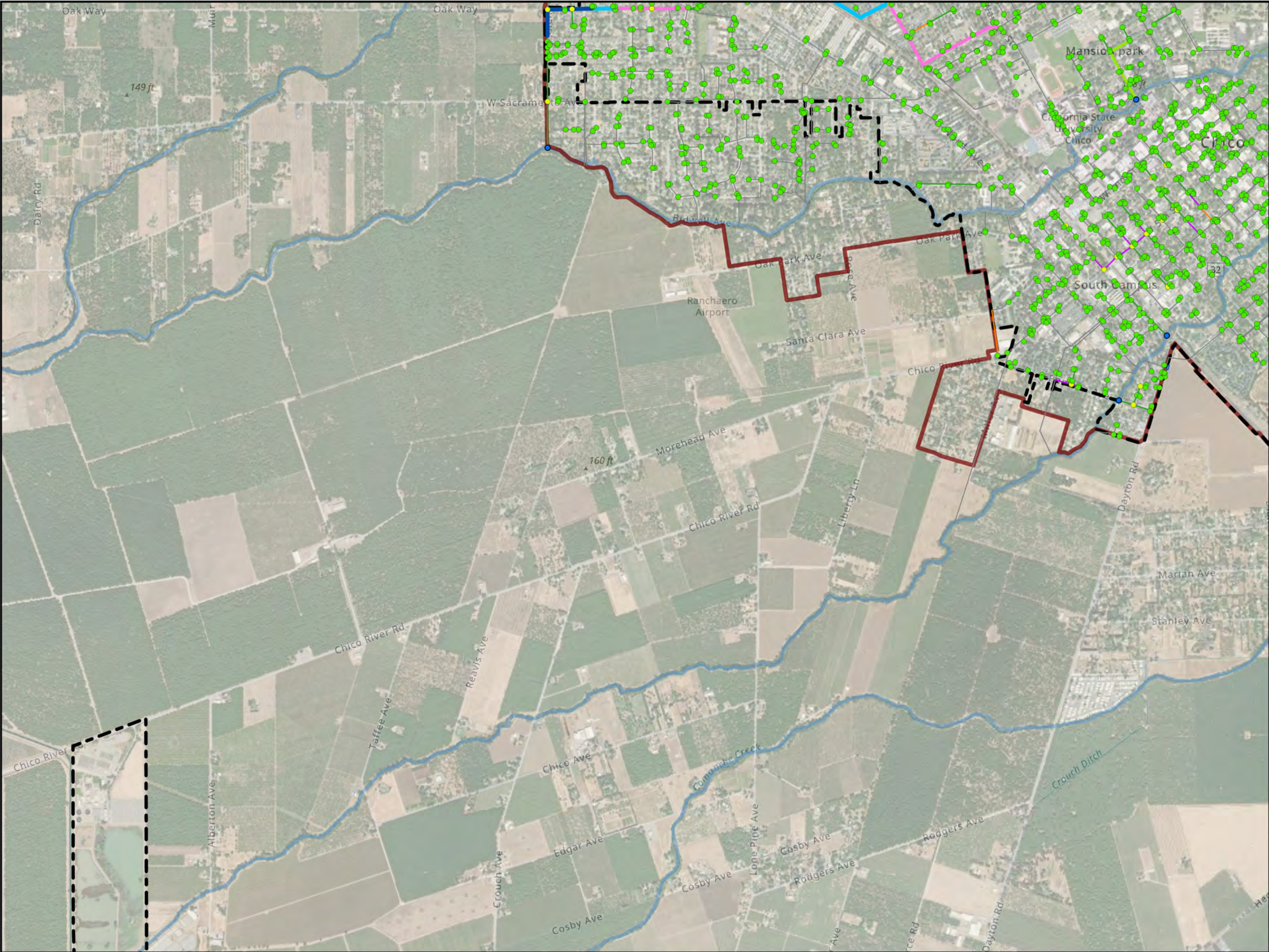
Sources:
For layers used, sources of specific drainage feature information are available in the SWMP GIS



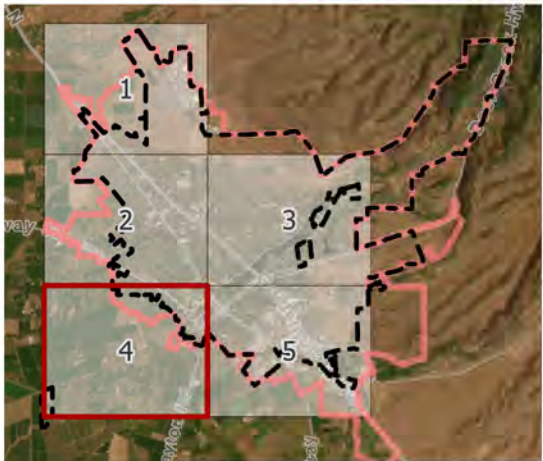
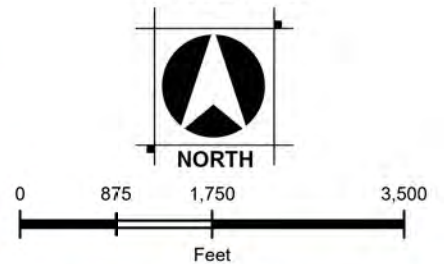
NOTES

1. The modeled storm drainage system map is a schematic representation of the drainage system for modeling purposes.
2. Many detention basins are modeled as points, but the basins are presented using polygons for illustrative purposes. Pipes cross basins in the schematic because the pipes connect to the point that represents the basin in the model.
3. The line segment lengths shown in the schematic do not necessarily match the modeled or actual pipe lengths.
4. Barber Yard Basin and Outlet are shown, but associated costs for these facilities are not included in the SWMP planning costs.

FIGURE 32-3



**RECOMMENDED
DRAINAGE IMPROVEMENTS**
STORM WATER MASTER PLAN
CITY OF CHICO
OCTOBER 2025



Legend

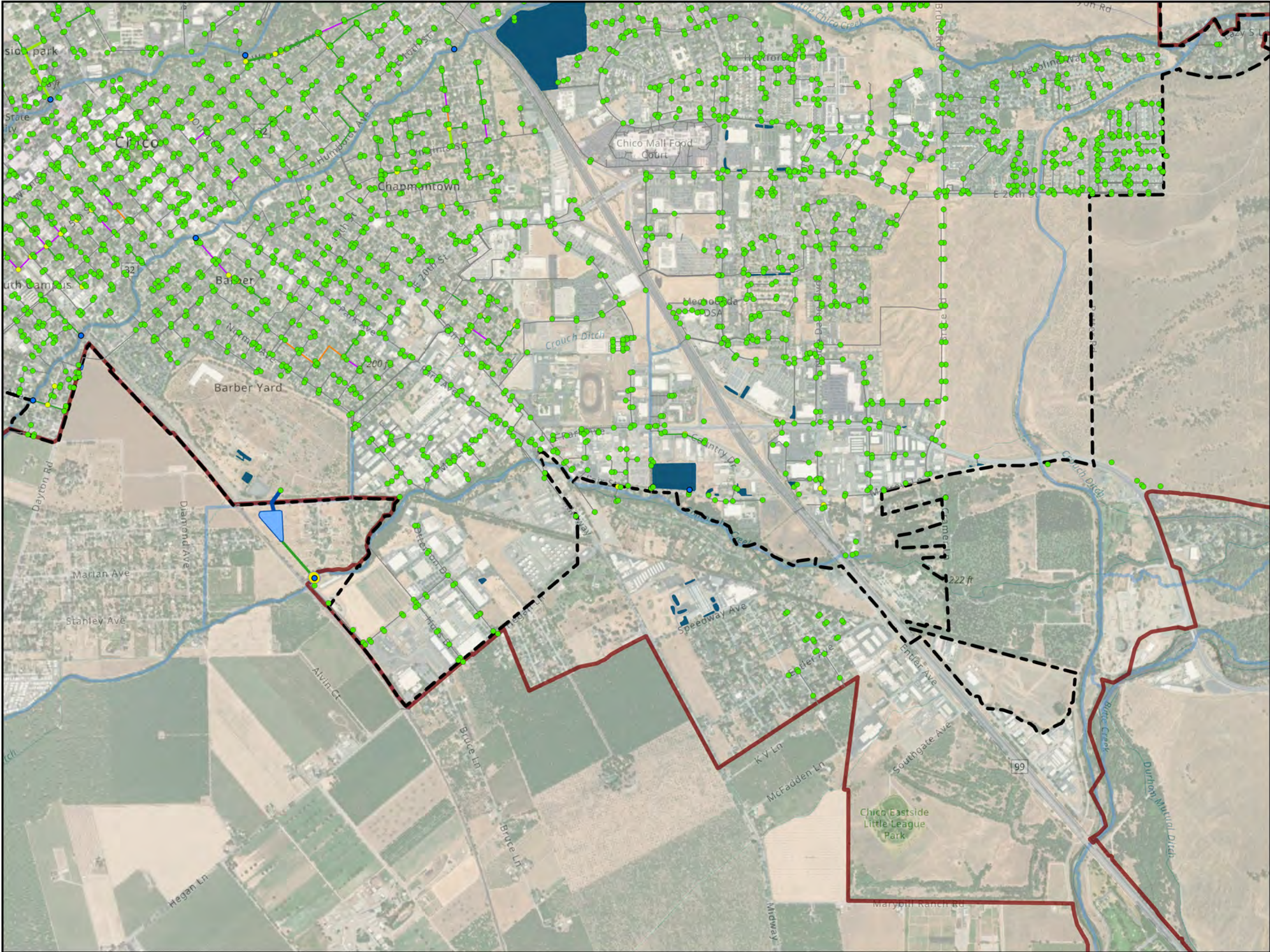
- Proposed Drop Inlet
- Proposed Field Inlet
- Proposed Replacement Drop Inlet
- Proposed Manhole/Junction
- Proposed Outfall
- Proposed Pipe Inlet
- Proposed Pump
- Existing Detention Basin
- Existing Channel
- Existing Pipe
- Proposed Pipe Diameter (inches)
 - 12
 - 15
 - 18
 - 24
 - 30
 - 36
 - 42
 - 48
- Proposed Replacement Pipe
- Proposed Channel
- Proposed Flap Gate
- Proposed Basin
- Sphere of Influence
- Chico City Limits

Sources:
For layers used, sources of specific drainage feature information are available in the SWMP GIS

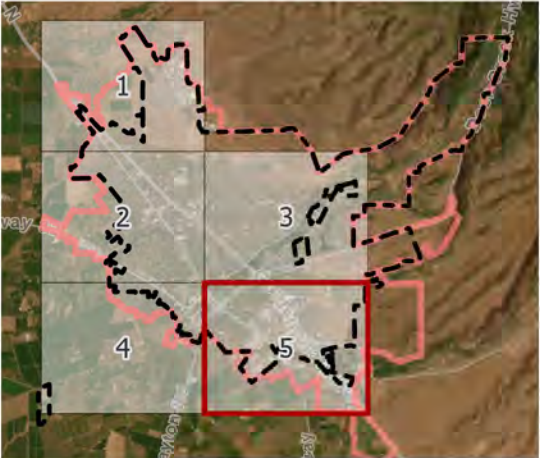
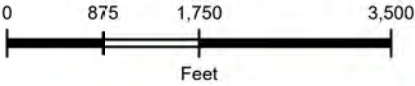


- NOTES**
1. The modeled storm drainage system map is a schematic representation of the drainage system for modeling purposes.
 2. Many detention basins are modeled as points, but the basins are presented using polygons for illustrative purposes. Pipes cross basins in the schematic because the pipes connect to the point that represents the basin in the model.
 3. The line segment lengths shown in the schematic do not necessarily match the modeled or actual pipe lengths.
 4. Barber Yard Basin and Outlet are shown, but associated costs for these facilities are not included in the SWMP planning costs.

FIGURE 32-4



**RECOMMENDED
DRAINAGE IMPROVEMENTS**
STORM WATER MASTER PLAN
CITY OF CHICO
OCTOBER 2025



Legend

- Proposed Drop Inlet
- Proposed Field Inlet
- Proposed Replacement Drop Inlet
- Proposed Manhole/Junction
- Proposed Outfall
- Proposed Pipe Inlet
- Proposed Pump
- Existing Detention Basin
- Existing Channel
- Existing Pipe
- Proposed Pipe Diameter (inches)
 - 12
 - 15
 - 18
 - 24
 - 30
 - 36
 - 42
 - 48
- Proposed Replacement Pipe
- Proposed Channel
- Proposed Flap Gate
- Proposed Basin
- Sphere of Influence
- Chico City Limits

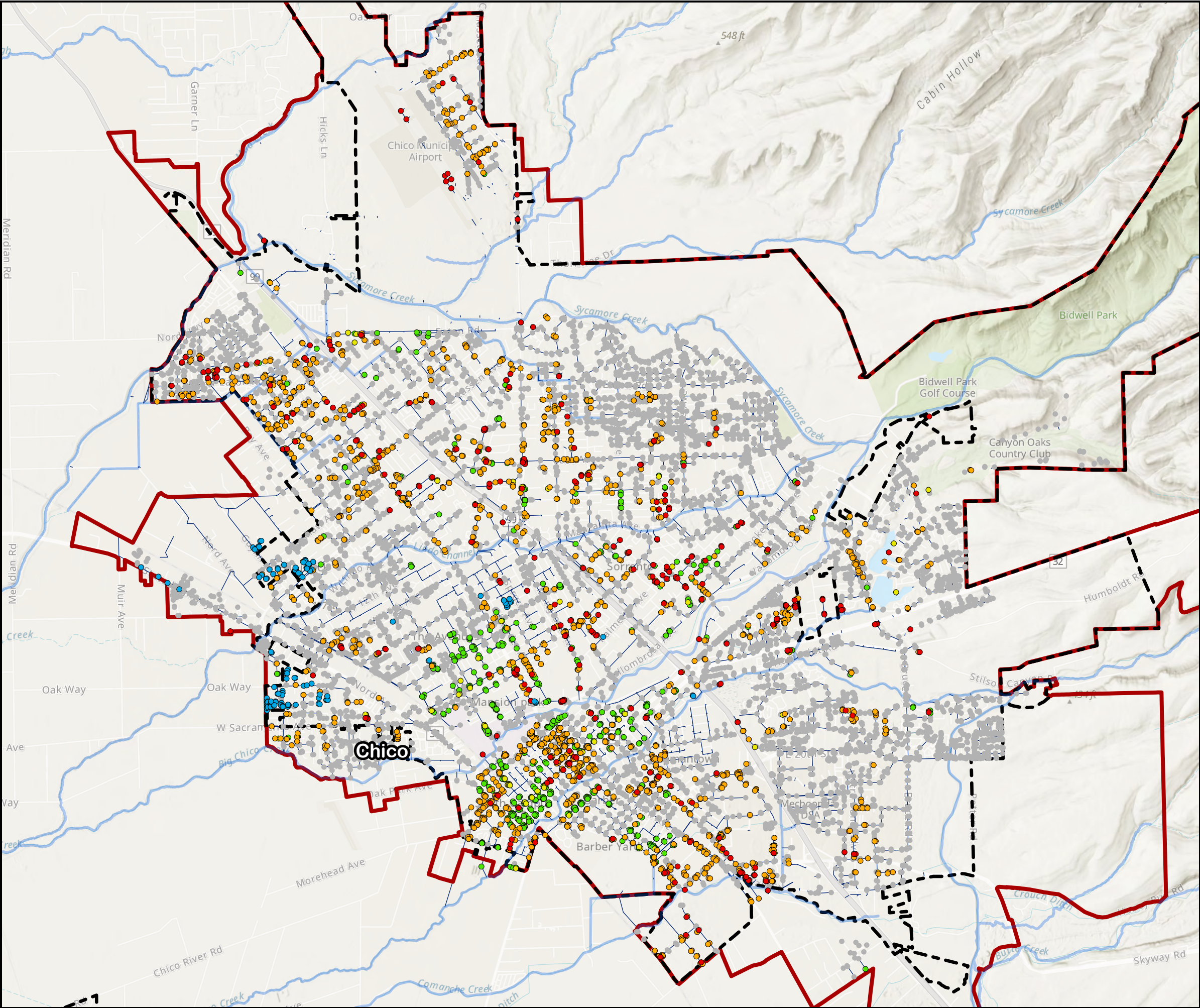
Sources:
For layers used, sources of specific drainage feature information are available in the SWMP GIS



NOTES

1. The modeled storm drainage system map is a schematic representation of the drainage system for modeling purposes.
2. Many detention basins are modeled as points, but the basins are presented using polygons for illustrative purposes. Pipes cross basins in the schematic because the pipes connect to the point that represents the basin in the model.
3. The line segment lengths shown in the schematic do not necessarily match the modeled or actual pipe lengths.
4. Barber Yard Basin and Outlet are shown, but associated costs for these facilities are not included in the SWMP planning costs.

FIGURE 32-5

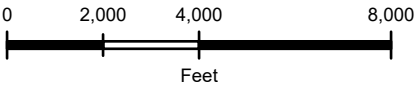
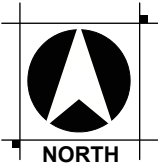


EVALUATION OF IMPACTS
OF PROPOSED PROJECTS

STORM WATER MASTER PLAN

CITY OF CHICO

DECEMBER 2024



Legend

- Modeled Link
- Streams/Channel
- Chico City Limits
- Sphere of Influence

Node HGL

- Below Curb and Decrease
- Above Curb and Decrease
- Below Curb and Increase
- Above Curb and Increase
- See Note
- Below Ground

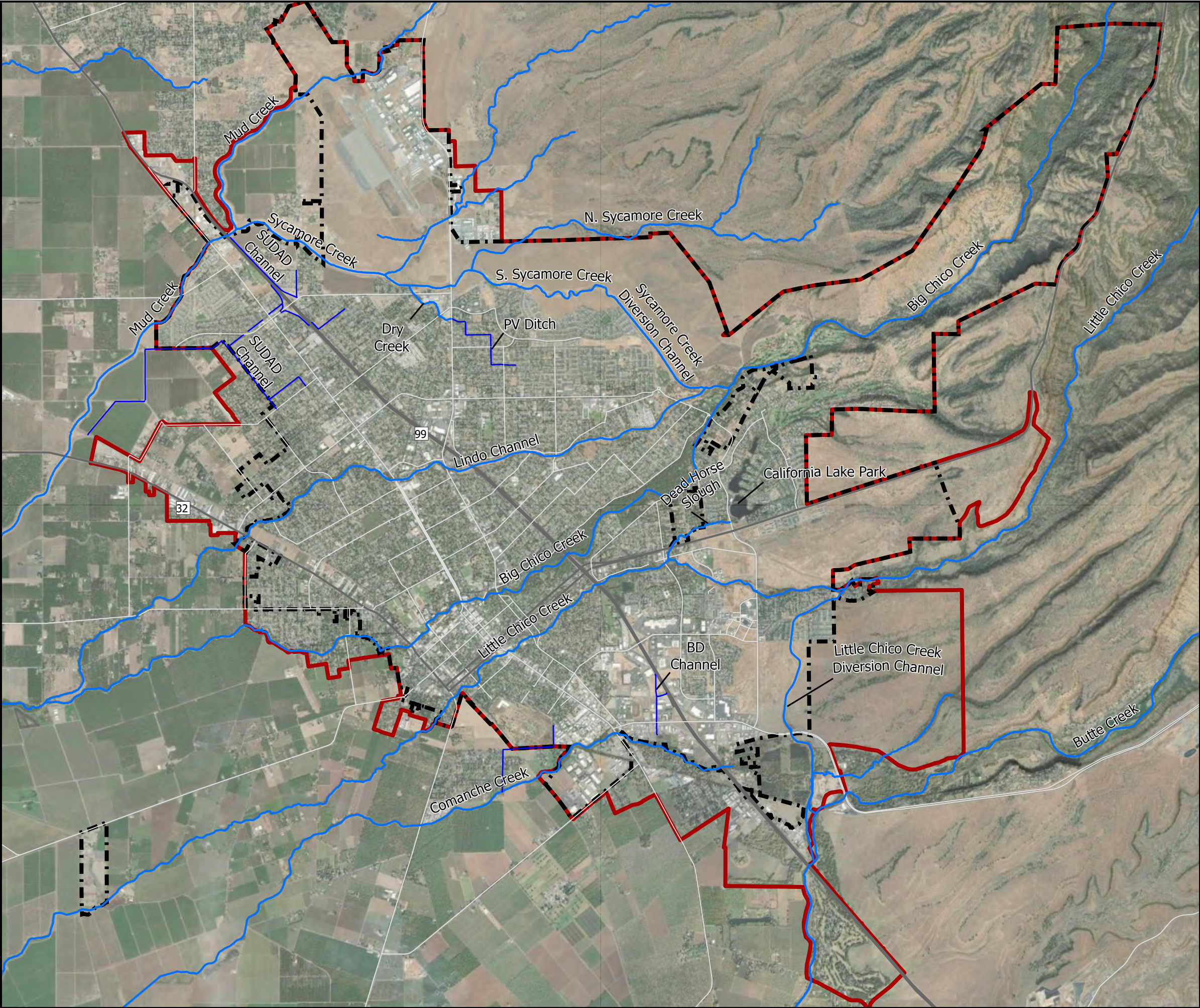
NOTES:

1. Blue dots represent locations where inlets are connected to infiltration systems. These infiltration systems were not included in the buildout model. Connections to the currently capped systems could cause model flows to increase due to changes in modeling assumptions rather than the increase being due to increase runoff from development.

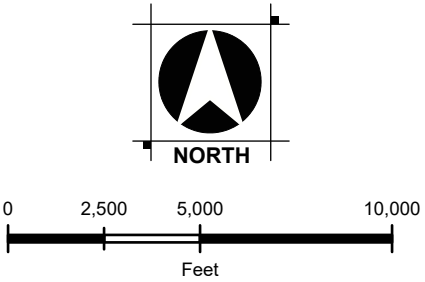
2. Comparison is between 10-year existing conditions Hydrology with the existing drainage system and 10-year build-out Hydrology with recommended drainage system improvements.



FIGURE 33



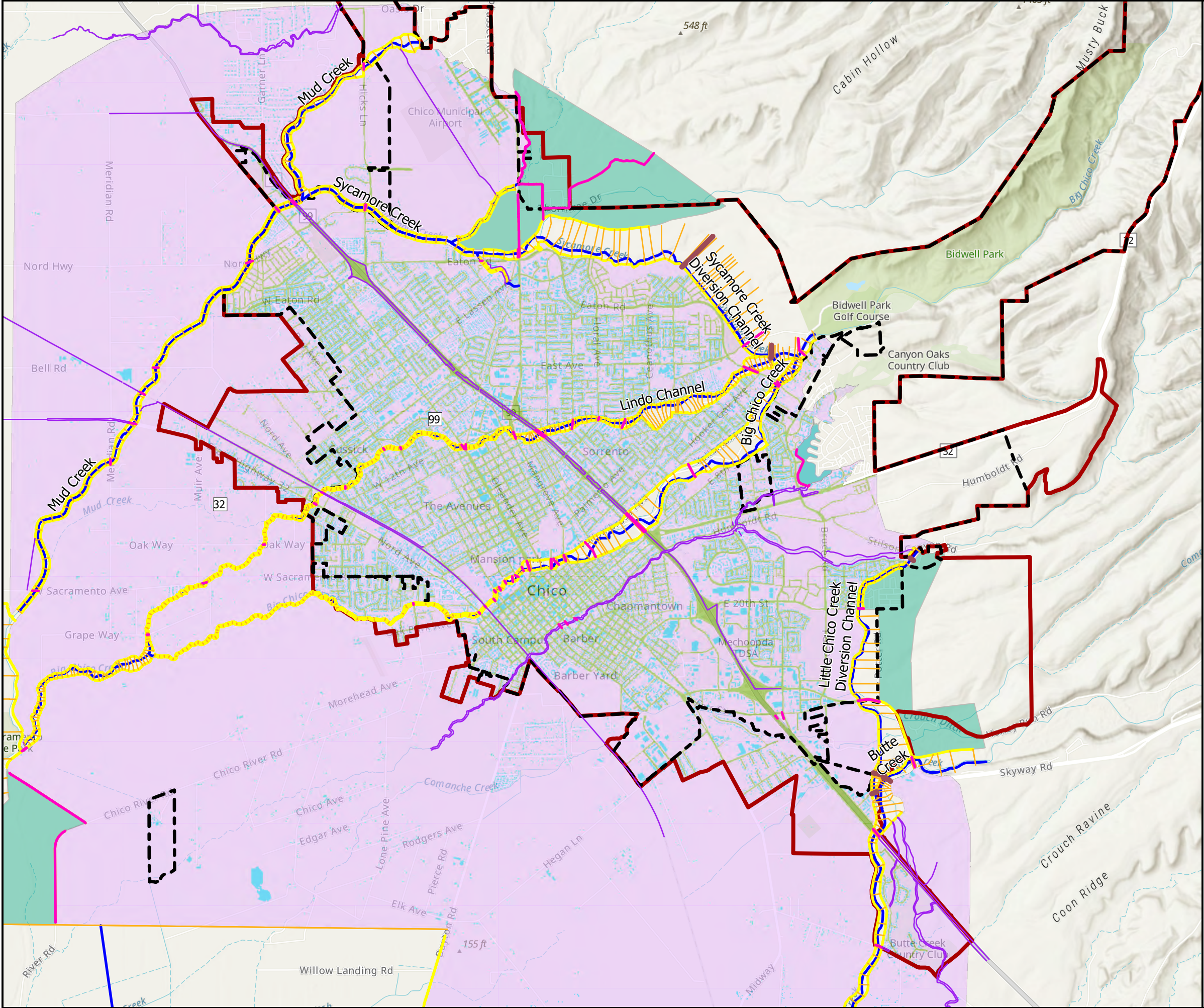
**STREAMS AND CHANNELS IN THE
CITY'S SPHERE OF INFLUENCE**
STORM WATER MASTER PLAN
CITY OF CHICO
DECEMBER 2024



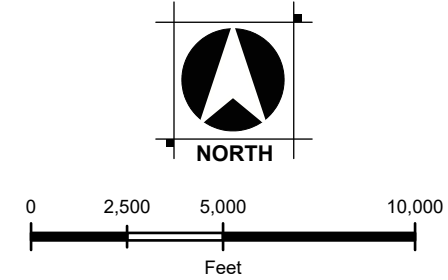
- Legend
- Streams
 - In-City Tributaries
 - City Limits
 - Sphere of Influence



FIGURE 34



HEC-RAS MODEL FEATURES
STORM WATER MASTER PLAN
CITY OF CHICO
DECEMBER 2024

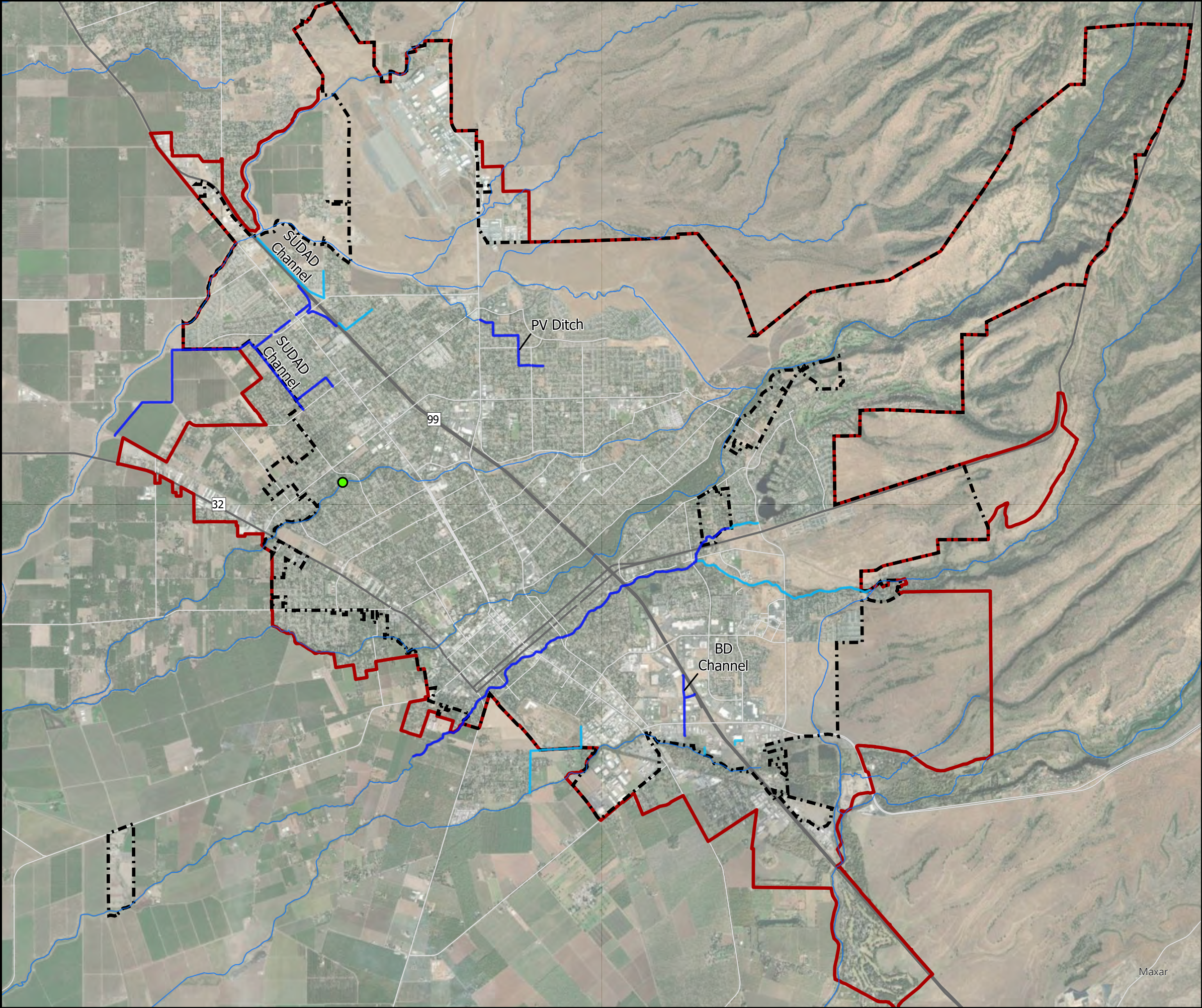


- Legend
- 1-D HEC-RAS Modeled Channel
 - 2-D Area Breaklines
 - Cross-Sections
 - Lateral Structures
 - Inline Structures
 - Bridges/ Culverts
 - 1-D Storage Areas
- 2D n-values
- 0.25
 - 0.016
 - 0.03
 - 0.06
- Sphere of Influence
- City Limits

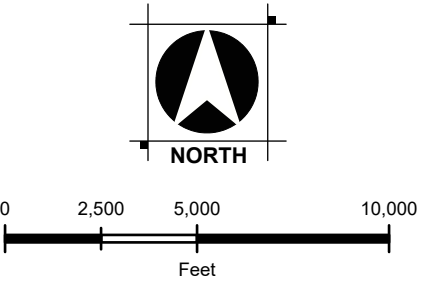
SOURCES: WR HEC-RAS Data



FIGURE 35



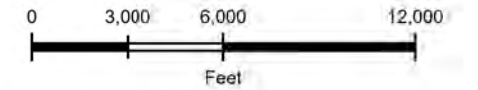
**INFOWORKS ICM
MODELED CHANNELS**
STORM WATER MASTER PLAN
CITY OF CHICO
DECEMBER 2024



- Legend
- 1-D ICM Modeled Channel
 - 2-D ICM Modeled Channel
 - Streams
 - Lindo Channel Gage
 - City Limits
 - Sphere of Influence

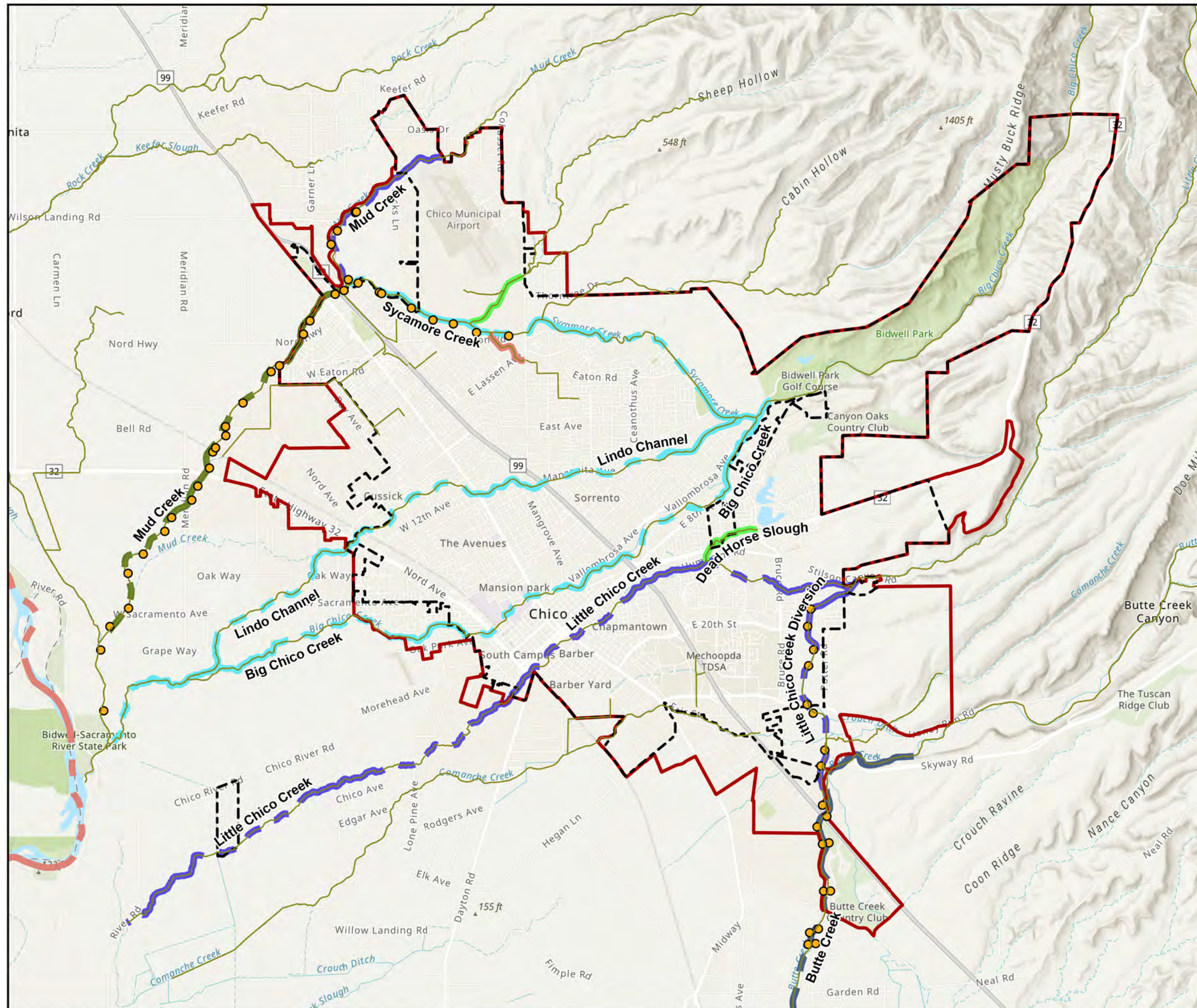


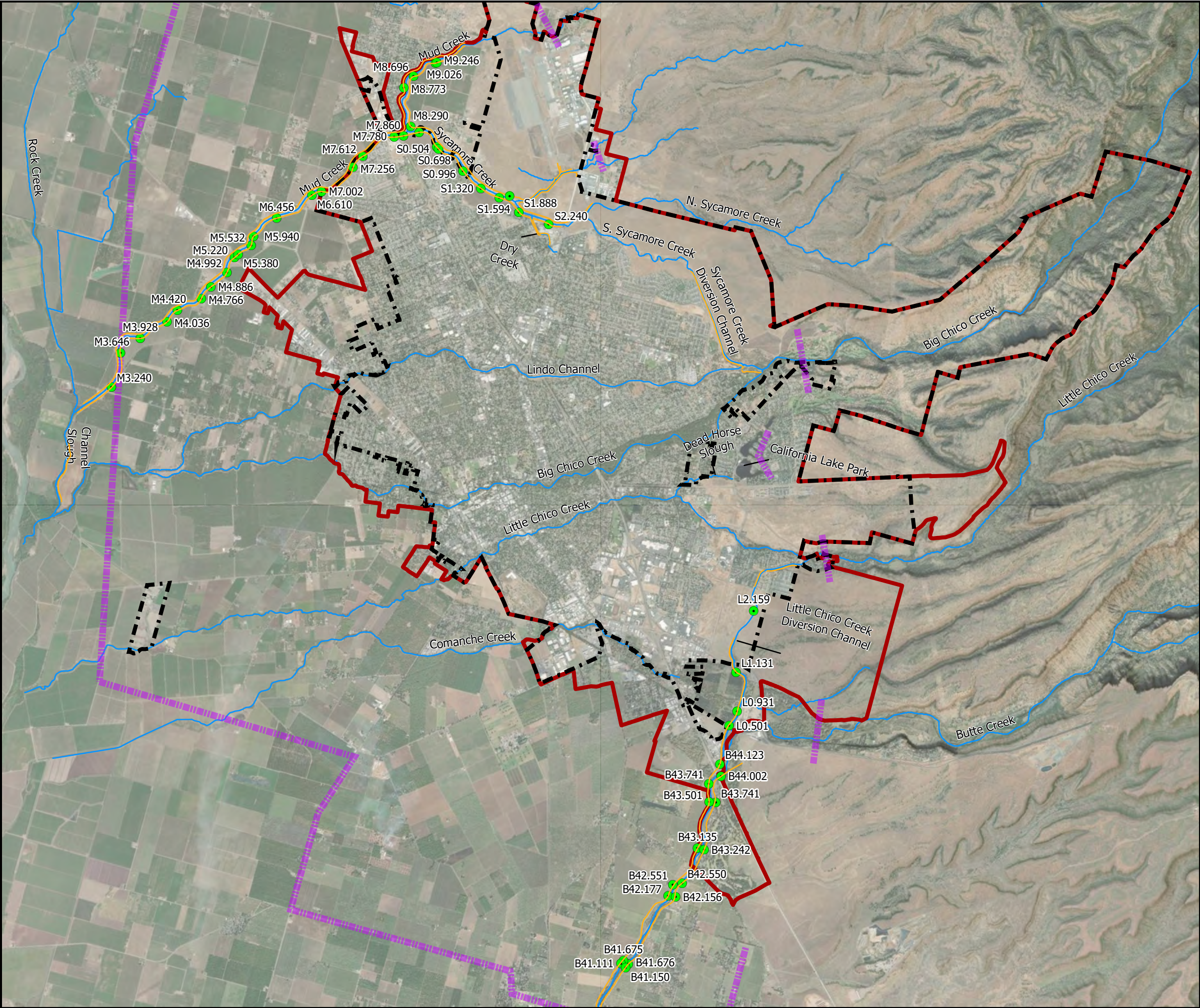
APPLICATION OF AREAL REDUCTION FACTORS STORM WATER MASTER PLAN CITY OF CHICO DECEMBER 2024



Legend

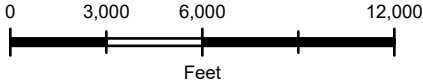
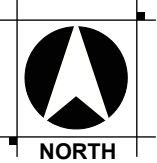
- CVFED Breach Locations
- Streams
- Chico City Limits
- Sphere of Influence
- Areal Reduction Factor
 - NA
 - 2.8
 - 24.4
 - 74
 - 124.3
 - 183.1





HEC-RAS STREAM MODEL 200-YEAR,
FLOODPLAIN BREACH LOCATIONS

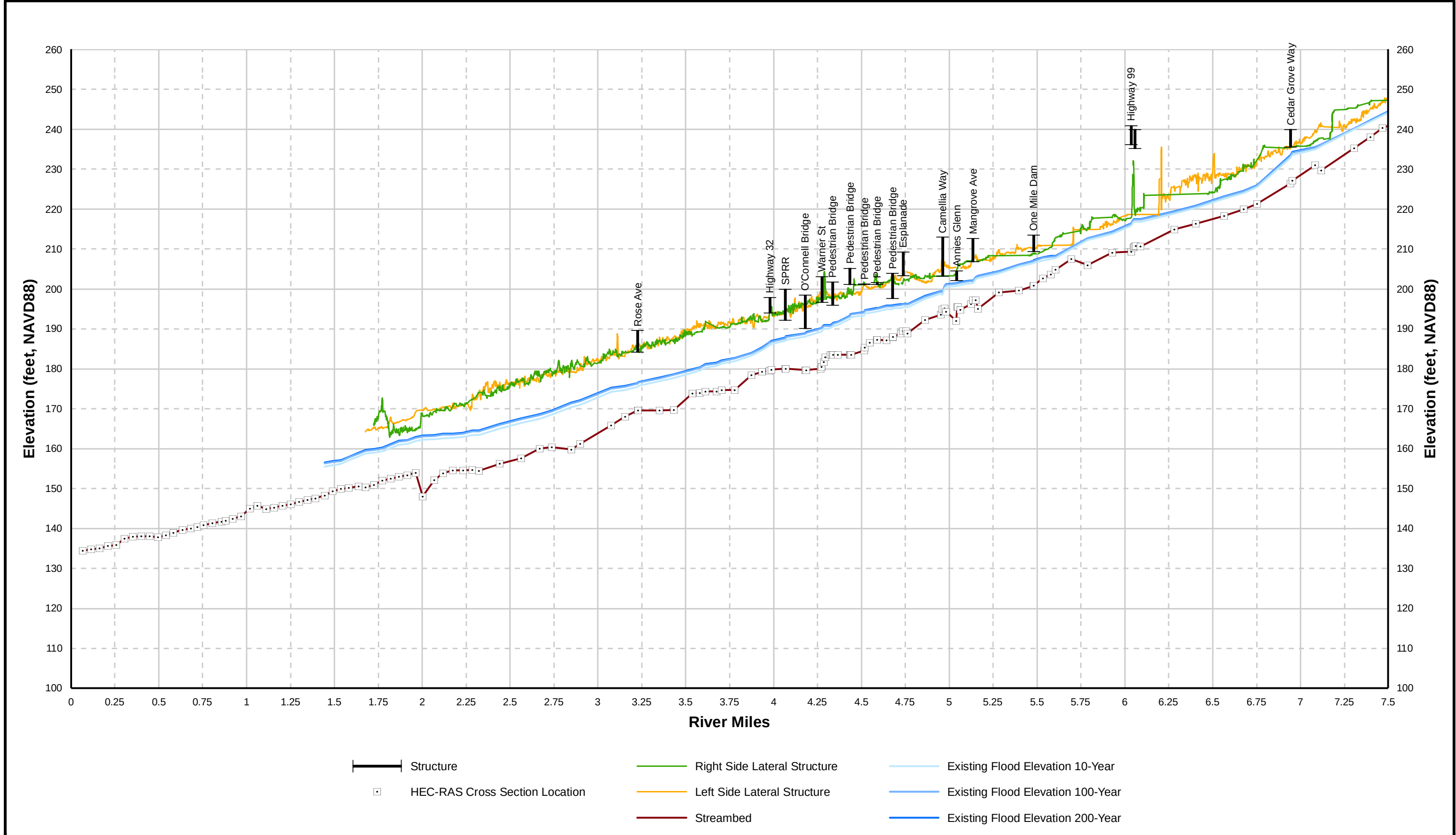
CITY OF CHICO
DECEMBER 2024



Legend

- Breach Locations
- Streams
- SPFC Levee
- Study Limits
- City Limits
- Sphere of Influence





Horizontal Scale: 1 inch = 0.5 miles
Vertical Scale: 1 inch = 20 Feet



WOOD RODGERS
DEVELOPING INNOVATIVE DESIGN SOLUTIONS
3301 C Street, Bldg. 100-B Tel: 916.341.7700
Sacramento, CA 95816 Fax: 916.341.7197

Chico Area Streams Model for Review of Creeks and Channels in the System
HEC-RAS based on CVFED, CVFPP and CVHS

BIG CHICO CREEK
RIVER MILES 0.07 to 7.5

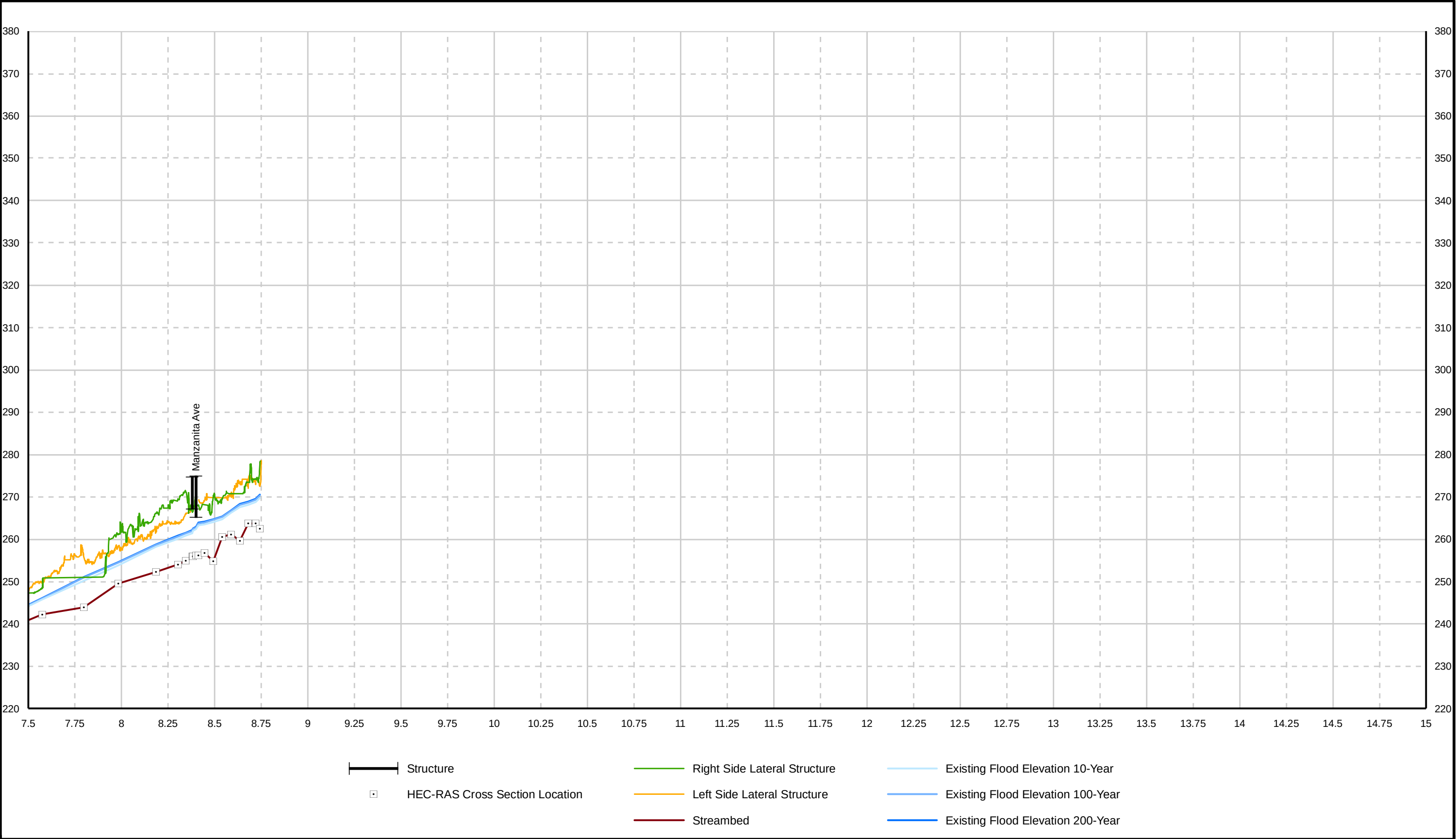
CITY OF CHICO
STORM WATER MASTER PLAN

Prepared By: Wood Rodgers
Job No. 8835.001

Figure: 39-1
Date: Dec 09, 2024

File: Chico_V010_Profile_BIG_20241206_F.mxd

C:\Jobs\8835001\GIS\Tasks\Chico_V010_Freeboard_Profile_BIG_20241209_F.mxd 12/09/2024 10:22:28 AM stan



Horizontal Scale: 1 inch = 0.5 miles
Vertical Scale: 1 inch = 20 Feet



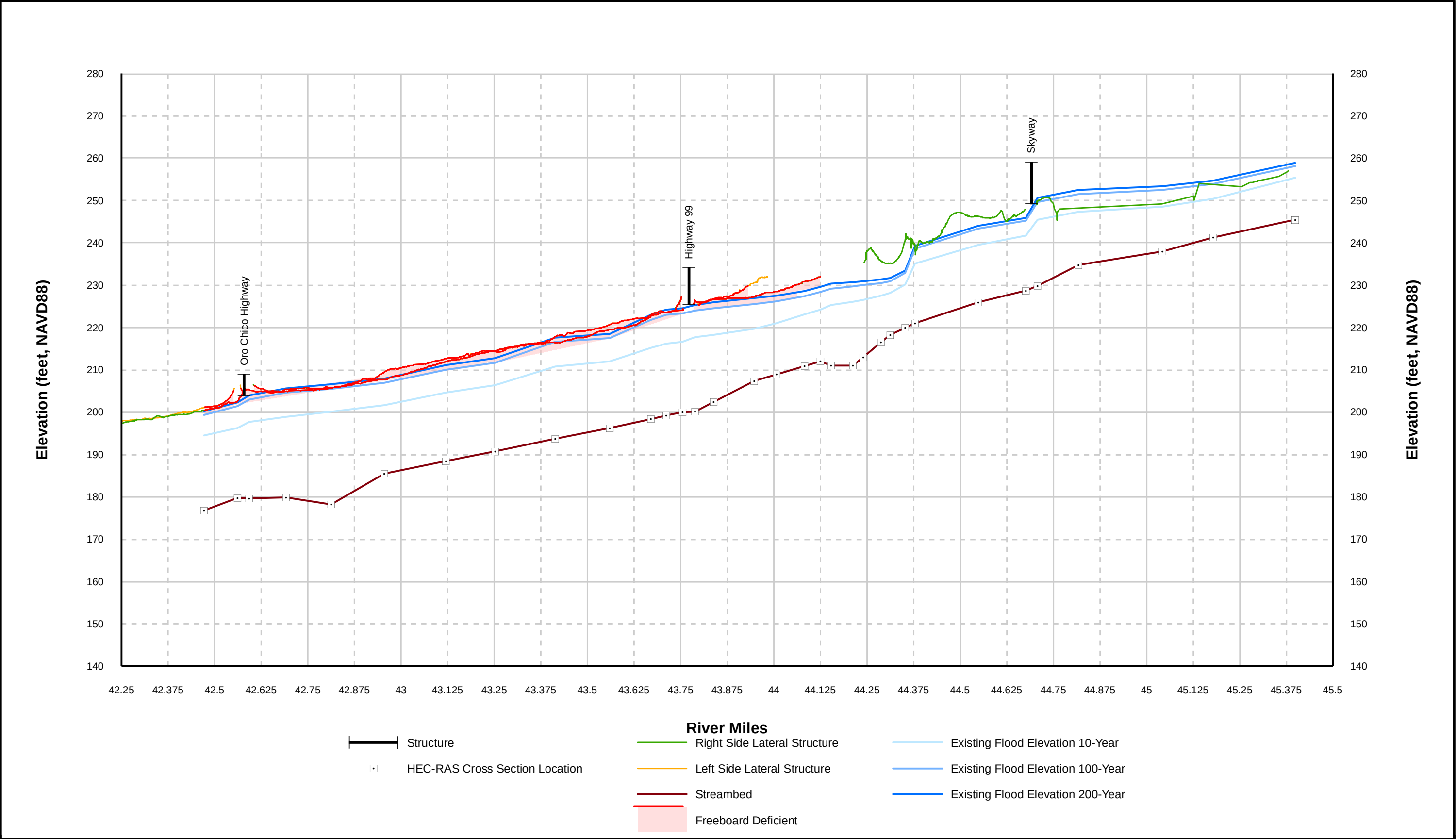
Chico Area Streams Model for Review of Creeks and Channels in the System
HEC-RAS based on CVFED, CVFPP and CVHS

BIG CHICO CREEK
RIVER MILES 7.5 to 8.74

CITY OF CHICO
STORM WATER MASTER PLAN

Prepared By: Wood Rodgers	Figure: 39-2
Job No. 8835.001	Date: Dec 09, 2024

File: Chico_V010_Profile_BIG_20241206_F.mxd



Horizontal Scale: 1 inch = 0.25 miles
Vertical Scale: 1 inch = 20 Feet



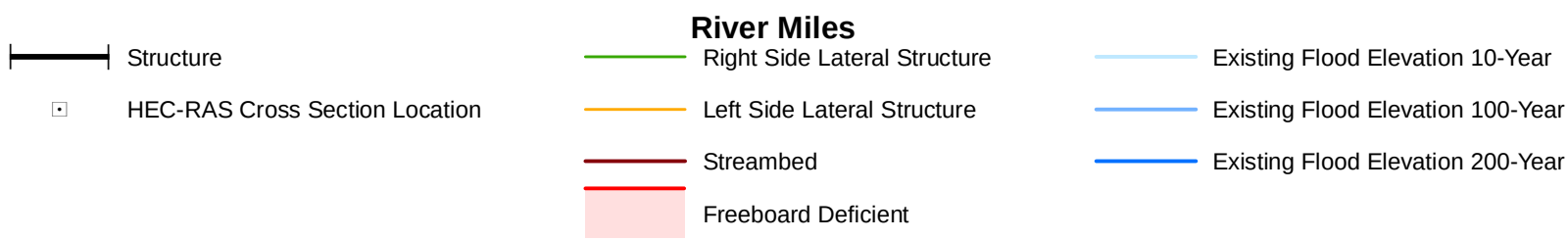
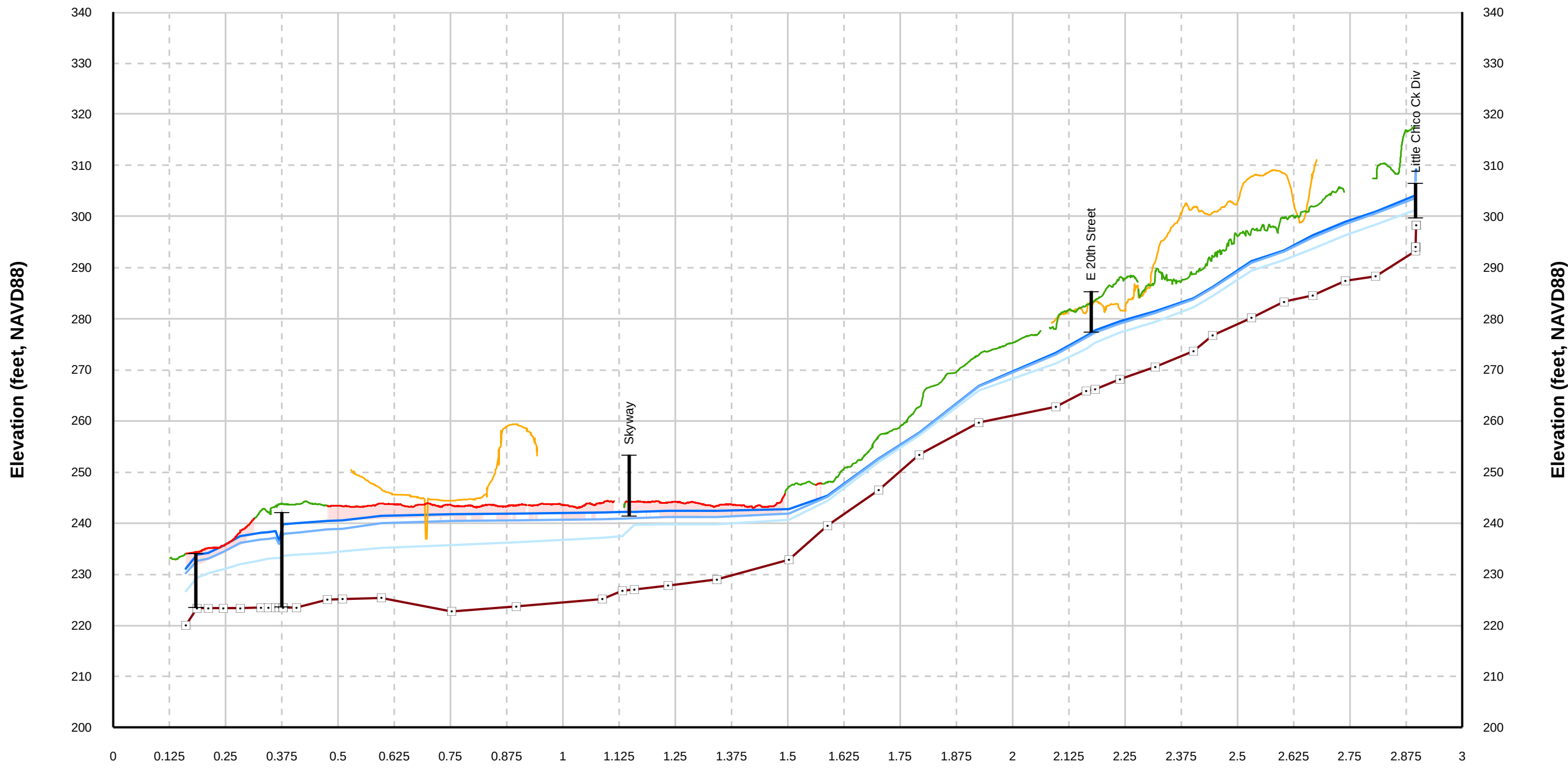
Chico Area Streams Model for Review of Creeks and Channels in the System
HEC-RAS based on CVFED, CVFPP and CVHS

BUTTE CREEK
RIVER MILES 42.47 to 45.4

CITY OF CHICO
STORM WATER MASTER PLAN

Prepared By: Wood Rodgers	Figure: 40
Job No. 8835.001	Date: Dec 09, 2024

File: Chico_V010_Profile_BUC_20241206_F.mxd



Horizontal Scale: 1 inch = 0.25 miles
Vertical Scale: 1 inch = 20 Feet



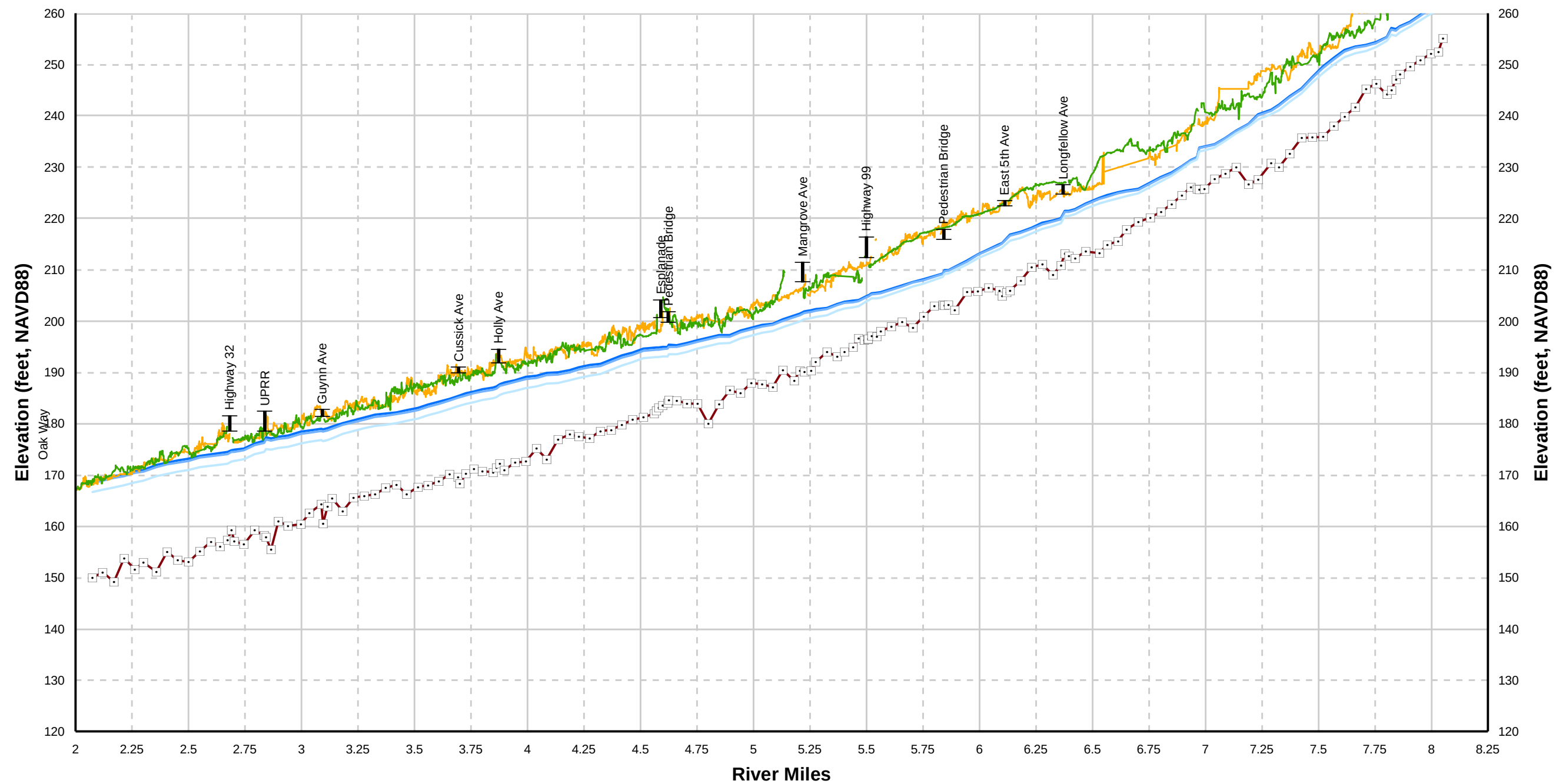
Chico Area Streams Model for Review of Creeks and Channels in the System
HEC-RAS based on CVFED, CVFPP and CVHS

LITTLE CHICO CREEK DIVERSION CHANNEL
RIVER MILES 0.16 to 2.9

CITY OF CHICO
STORM WATER MASTER PLAN

Prepared By: Wood Rodgers	Figure: 41
Job No. 8835.001	Date: Dec 09, 2024

File: Chico_V010_Profile_LBC_20241206_F.mxd



- | | | | | | |
|--|--------------------------------|--|------------------------------|--|-----------------------------------|
| | Structure | | Right Side Lateral Structure | | Existing Flood Elevation 10-Year |
| | HEC-RAS Cross Section Location | | Left Side Lateral Structure | | Existing Flood Elevation 100-Year |
| | | | Streambed | | Existing Flood Elevation 200-Year |

Horizontal Scale: 1 inch = 0.5 miles
Vertical Scale: 1 inch = 20 Feet



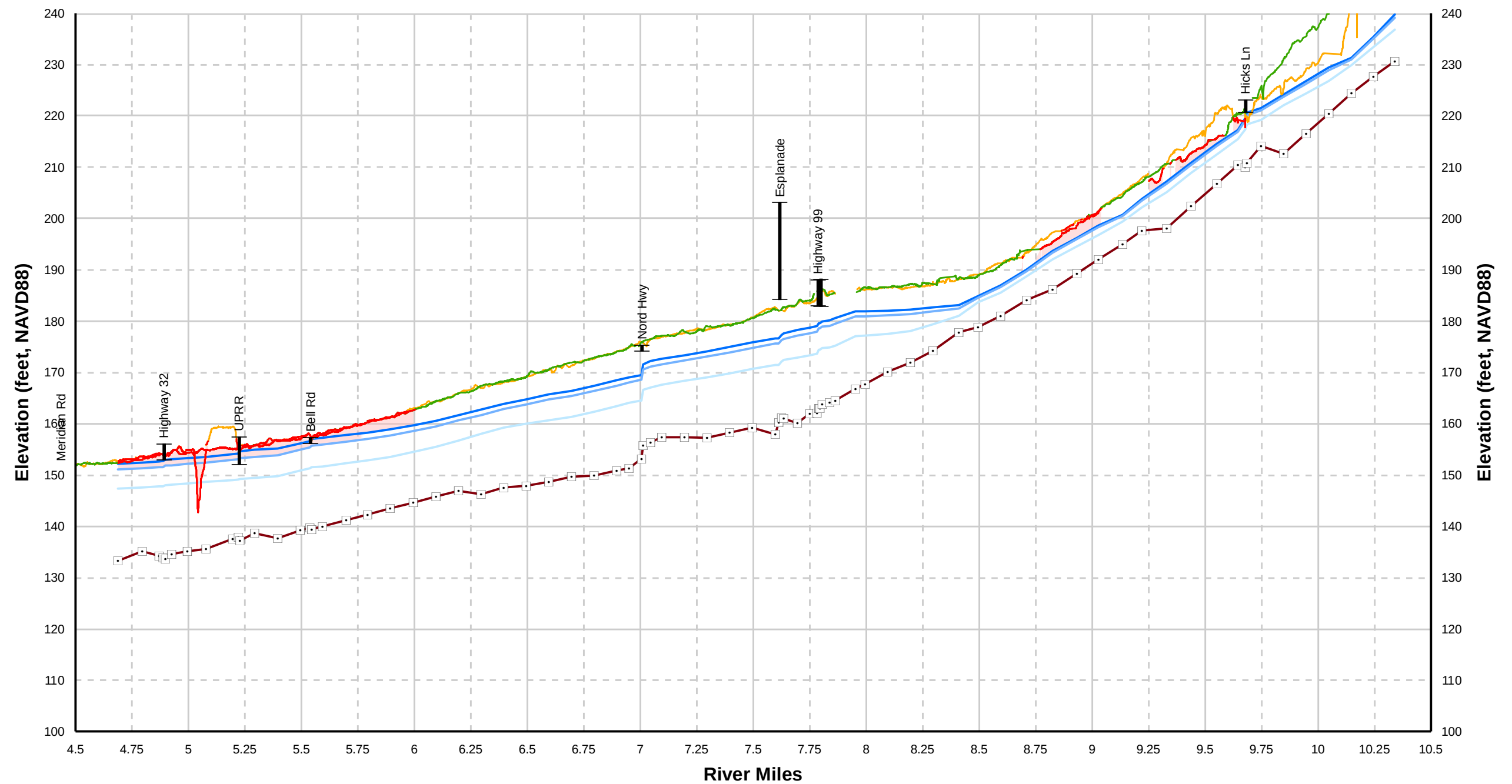
Chico Area Streams Model for Review of Creeks and Channels in the System
HEC-RAS based on CVFED, CVFPP and CVHS

LINDO CHANNEL
RIVER MILES 2.07 to 8.05

CITY OF CHICO
STORM WATER MASTER PLAN

Prepared By: Wood Rodgers	Figure: 42
Job No. 8835.001	Date: Dec 09, 2024

File: Chico_V010_Profile_LID_20241206_F.mxd



Horizontal Scale: 1 inch = 0.5 miles
Vertical Scale: 1 inch = 20 Feet



Chico Area Streams Model for Review of Creeks and Channels in the System
HEC-RAS based on CVFED, CVFPP and CVHS

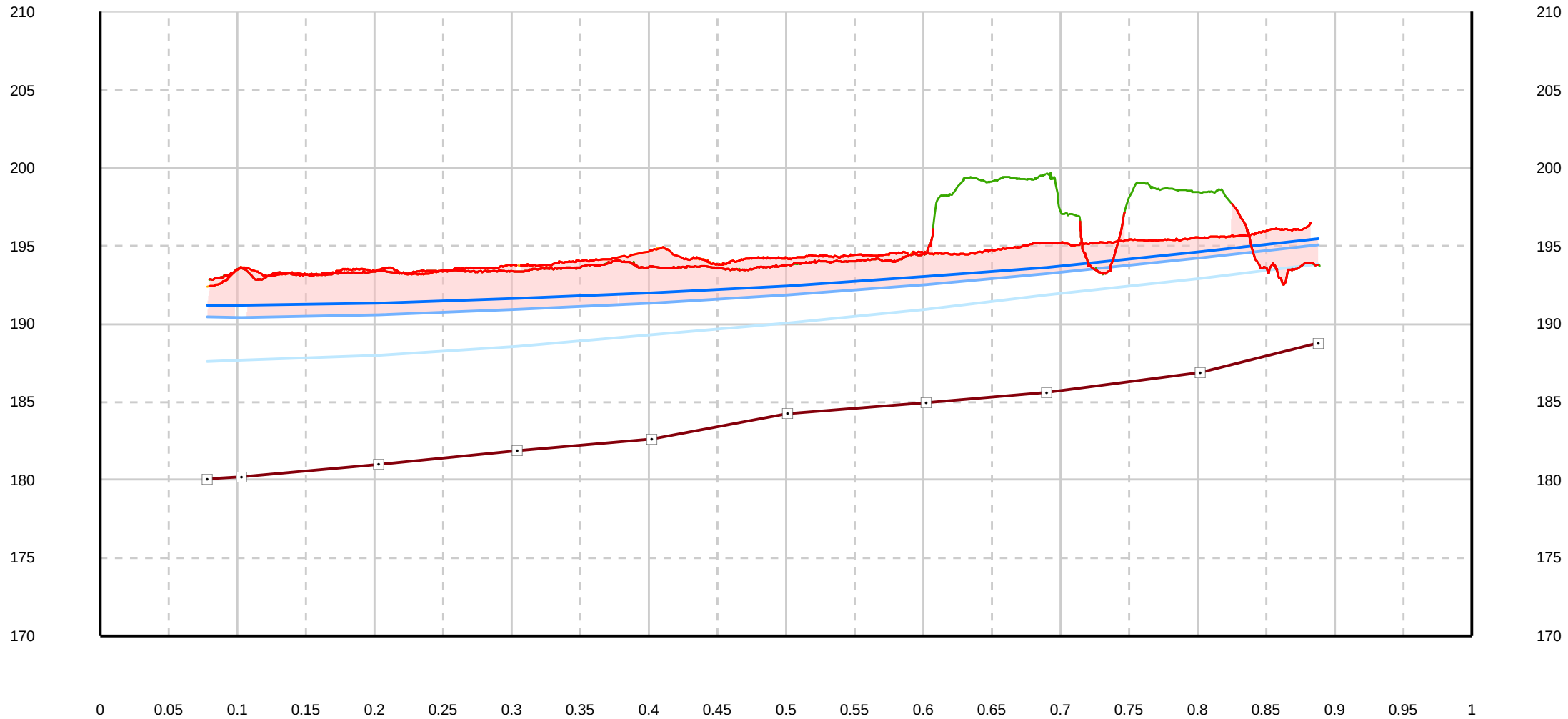
MUD CREEK
RIVER MILES 4.69 to 10.34

CITY OF CHICO
STORM WATER MASTER PLAN

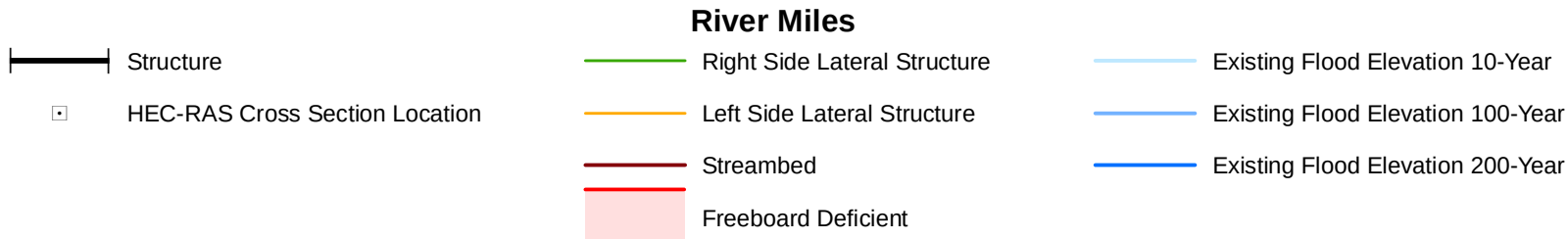
Prepared By: Wood Rodgers	Figure: 43
Job No. 8835.001	Date: Dec 09, 2024

File: Chico_V010_Profile_MUC_20241206_F.mxd

Elevation (feet, NAVD88)



Elevation (feet, NAVD88)



Horizontal Scale: 1 inch = 0.1 miles
Vertical Scale: 1 inch = 10 Feet



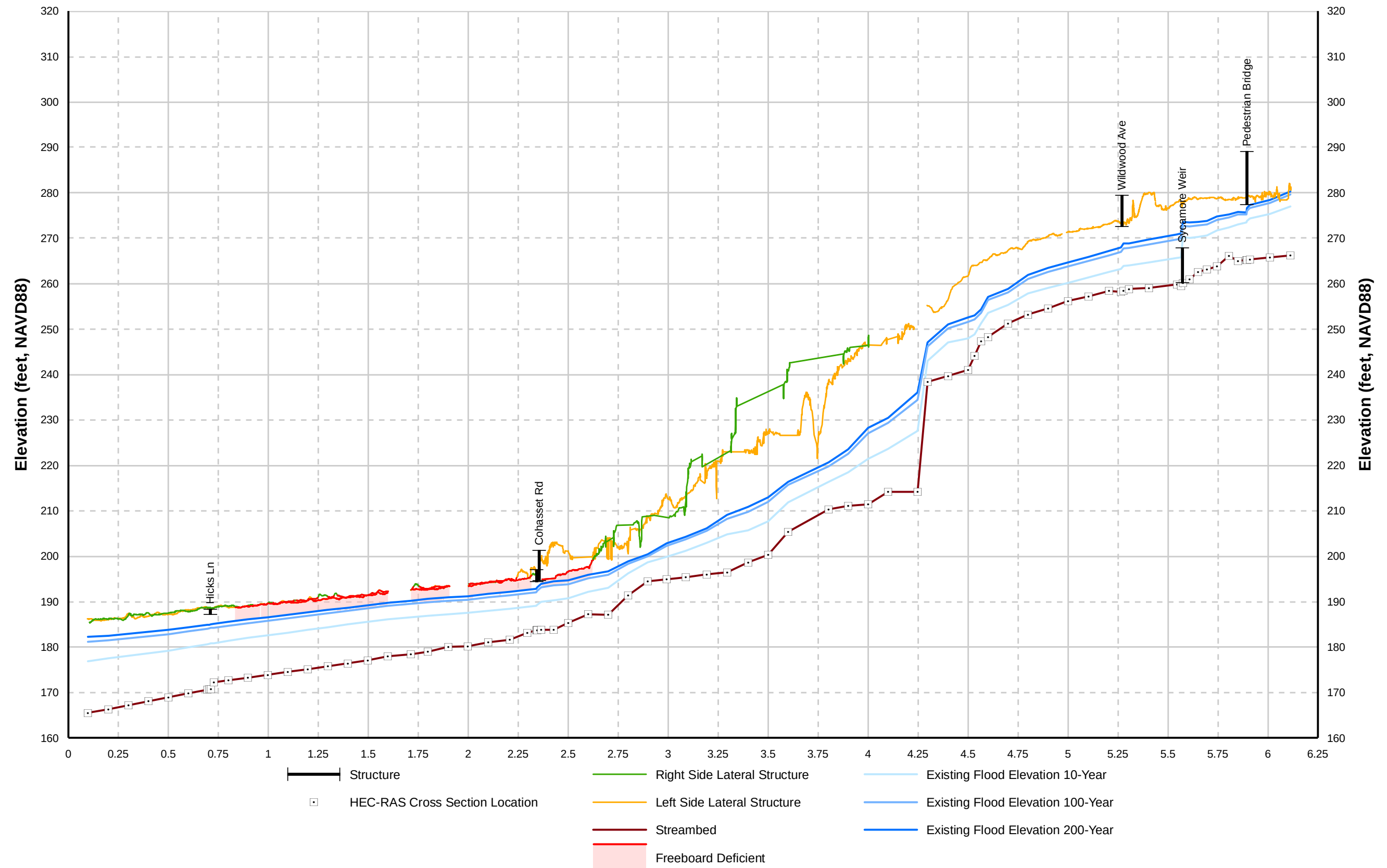
Chico Area Streams Model for Review of Creeks and Channels in the System
HEC-RAS based on CVFED, CVFPP and CVHS

SHEEP HOLLOW CREEK
RIVER MILES 0.08 to 0.89

CITY OF CHICO
STORM WATER MASTER PLAN

Prepared By: Wood Rodgers	Figure: 44
Job No. 8835.001	Date: Dec 09, 2024

File: Chico_V010_Profile_SHE_20241206_F.mxd



Horizontal Scale: 1 inch = 0.5 miles
Vertical Scale: 1 inch = 20 Feet



Chico Area Streams Model for Review of Creeks and Channels in the System
HEC-RAS based on CVFED, CVFPP and CVHS

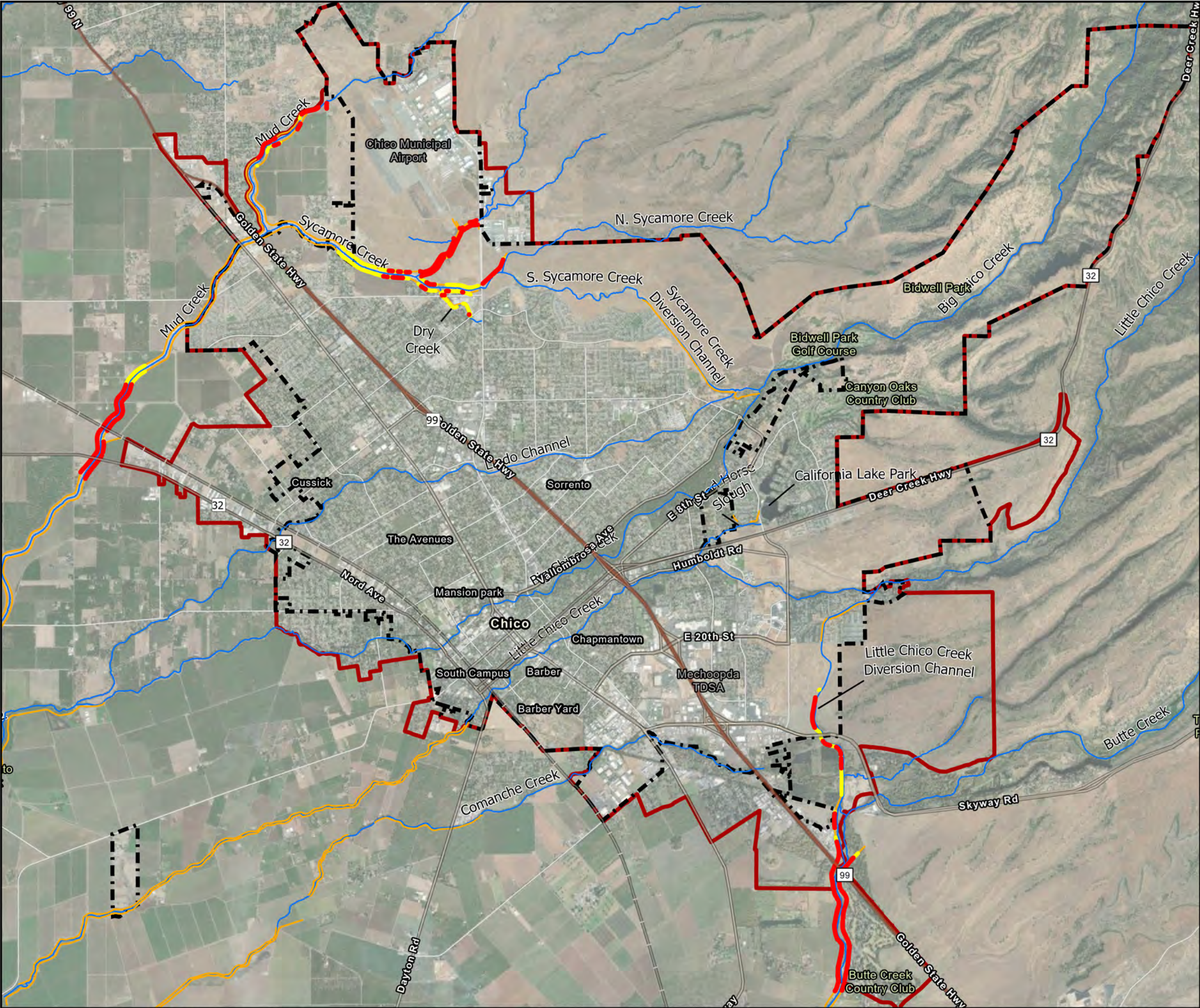
SYCAMORE CREEK AND BYPASS

RIVER MILES 0.1 to 6.11

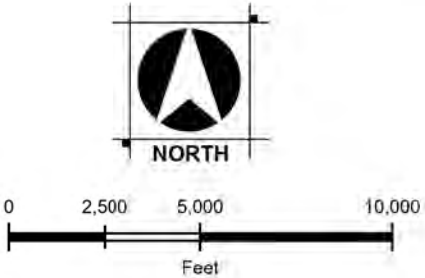
CITY OF CHICO
STORM WATER MASTER PLAN

Prepared By: Wood Rodgers	Figure: 45
Job No. 8835.001	Date: Dec 09, 2024

File: Chico_V010_Profile_SYC_20241206_F.mxd



LEVEE FREEBOARD
DEFICIENCY LOCATIONS
STORM WATER MASTER PLAN
CITY OF CHICO
DECEMBER 2024

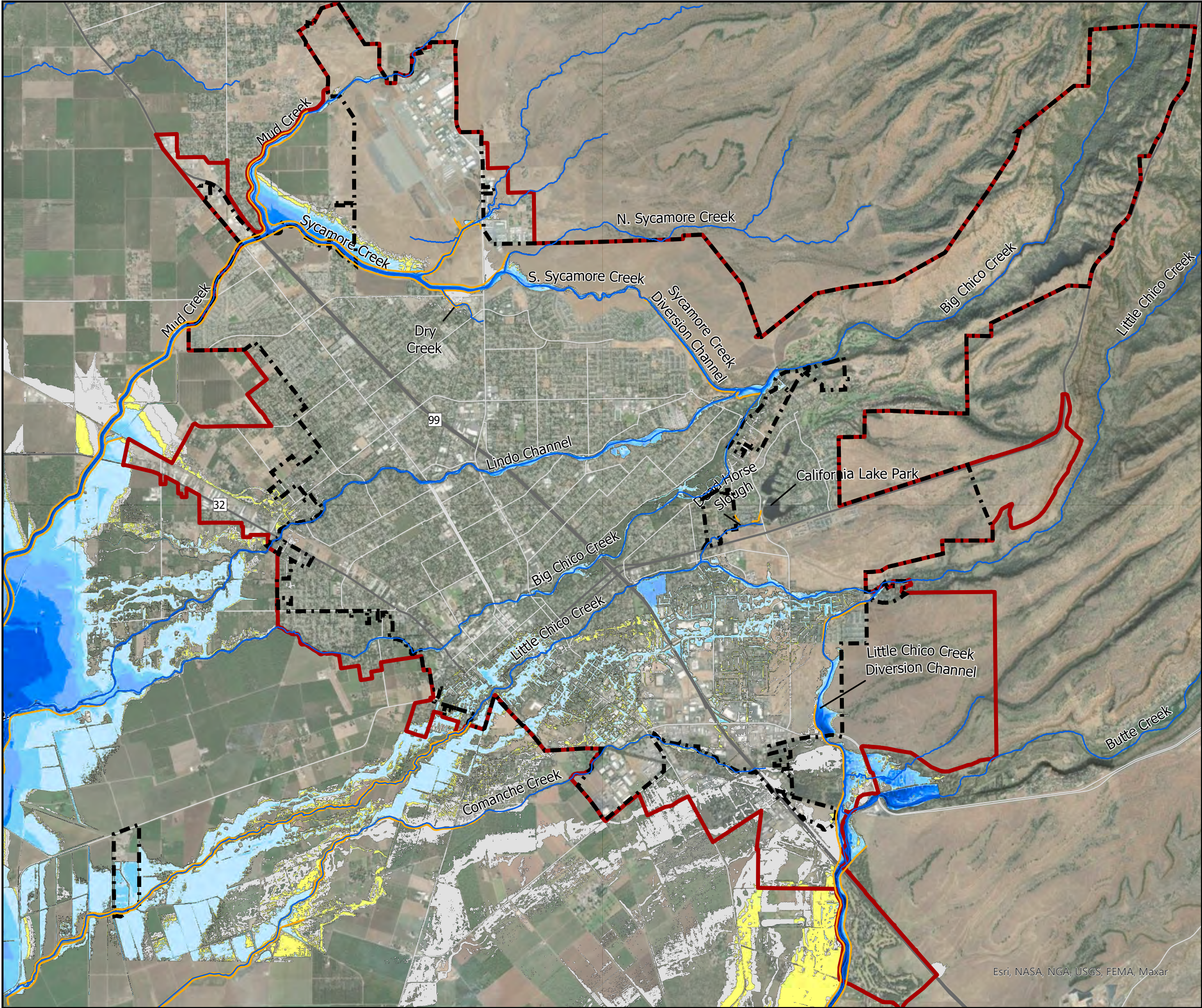


- Legend
- Streams
 - Levee
 - 100-year Levee Freeboard Deficiency
 - 200-year Levee Freeboard Deficiency
 - Sphere of Influence
 - City Limits

NOTE:
1. Levee freeboard was not evaluated for the levees downstream from California Park Lake.

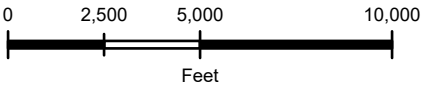
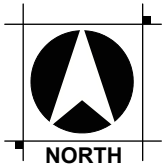


FIGURE 46



HEC-RAS CHICO AREA STREAM MODEL
FLOODPLAIN INUNDATION RESULTS

STORM WATER MASTER PLAN
CITY OF CHICO
DECEMBER 2024



Legend

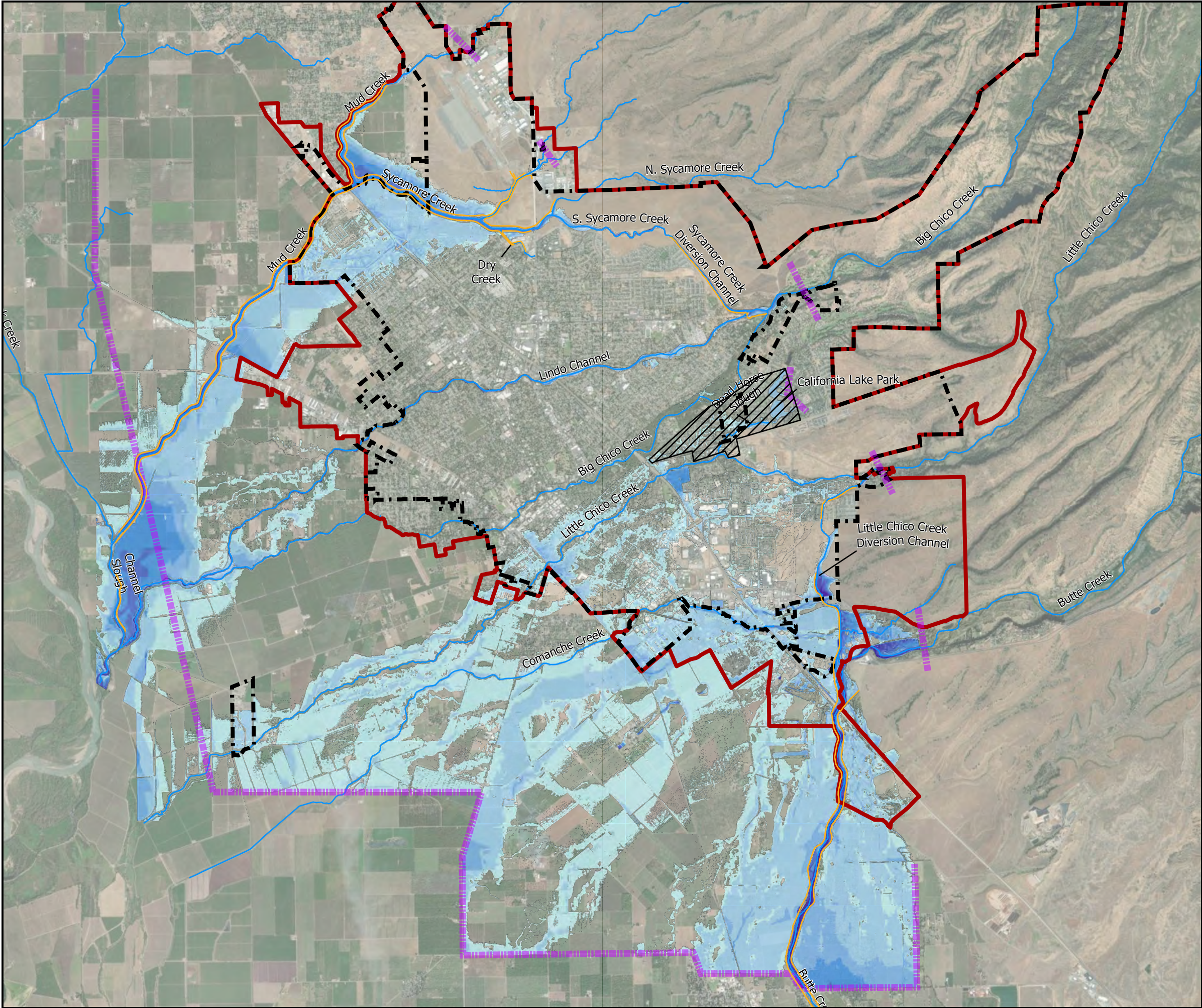
- Streams
- Levee
- City Limits
- Sphere of Influence
- 100-year Flood Depth
 - 0 - 1 foot
 - 1 foot - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 8 feet
 - 8 feet - 11 feet
 - 11 feet - 15 feet
 - Greater than 15 feet
- 200-year Flood Depth
- 500-year Flood Depth

NOTE:
This map does not show flooding
from local rainfall or levee failures.



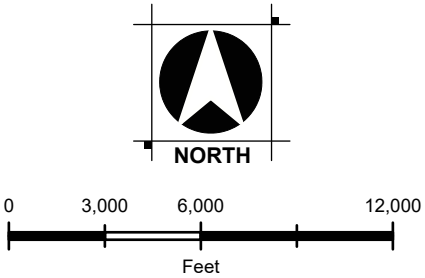
Esri, NASA, NGA, USGS, FEMA, Maxar

FIGURE 47



HEC-RAS STREAM MODEL 200-YEAR
FLOODPLAIN INUNDATION RESULTS

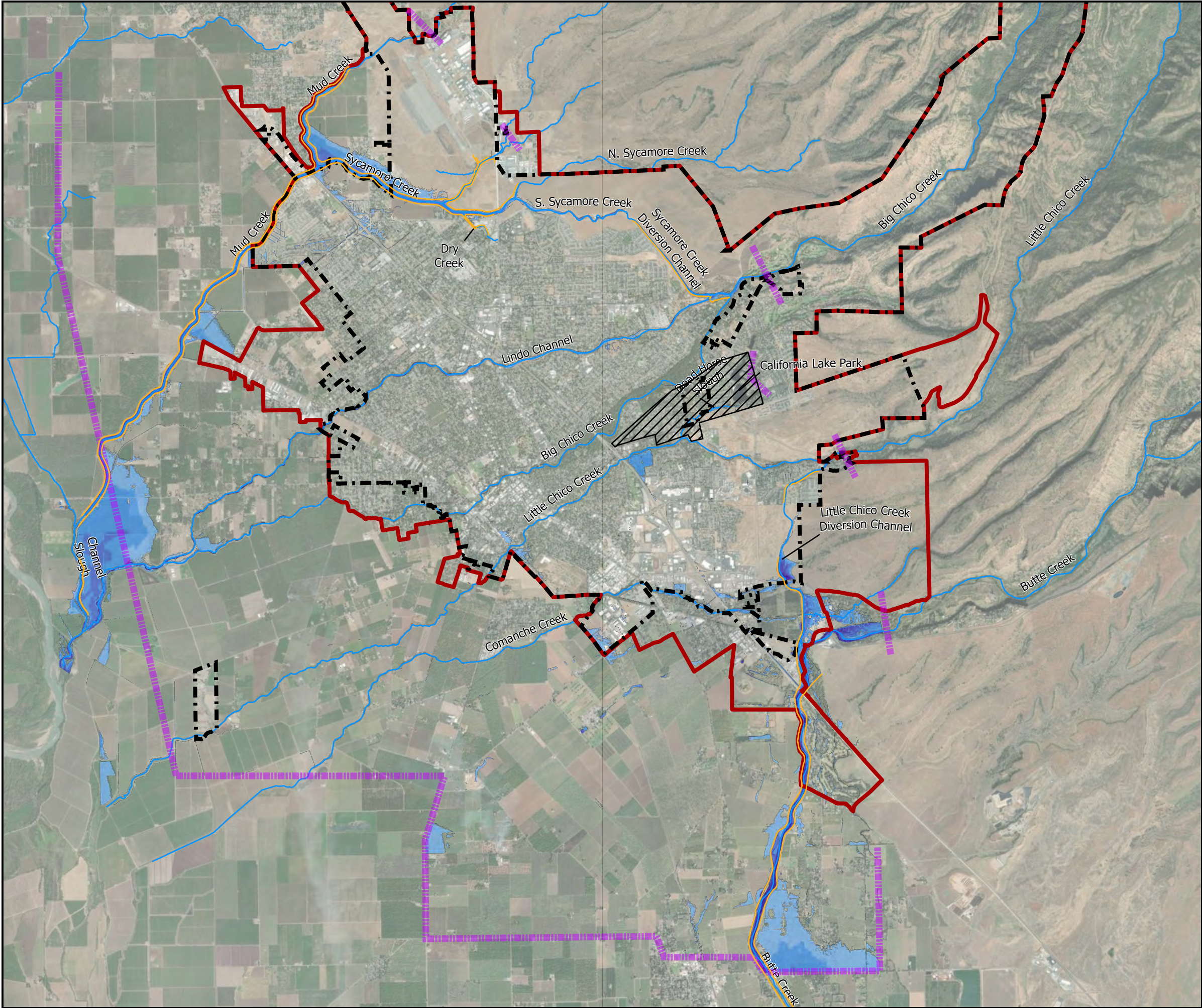
CITY OF CHICO
DECEMBER 2024



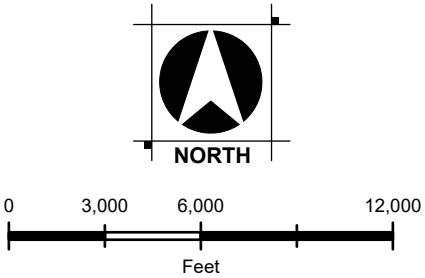
- Legend
- Streams
 - SPFC Levee
 - Study Limits
 - City Limits
 - Sphere of Influence
 - < 10 sq mi Watershed Flooding
- 200-Year Inundation Area
- 0 - 1 foot
 - 1 foot - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 8 feet
 - 8 feet - 11 feet
 - 11 feet - 15 feet
 - Greater Than 15 feet

- NOTES:
1. This map shows flooding resulting from breaches at identified locations.
 2. This map does not show flooding from local rainfall.





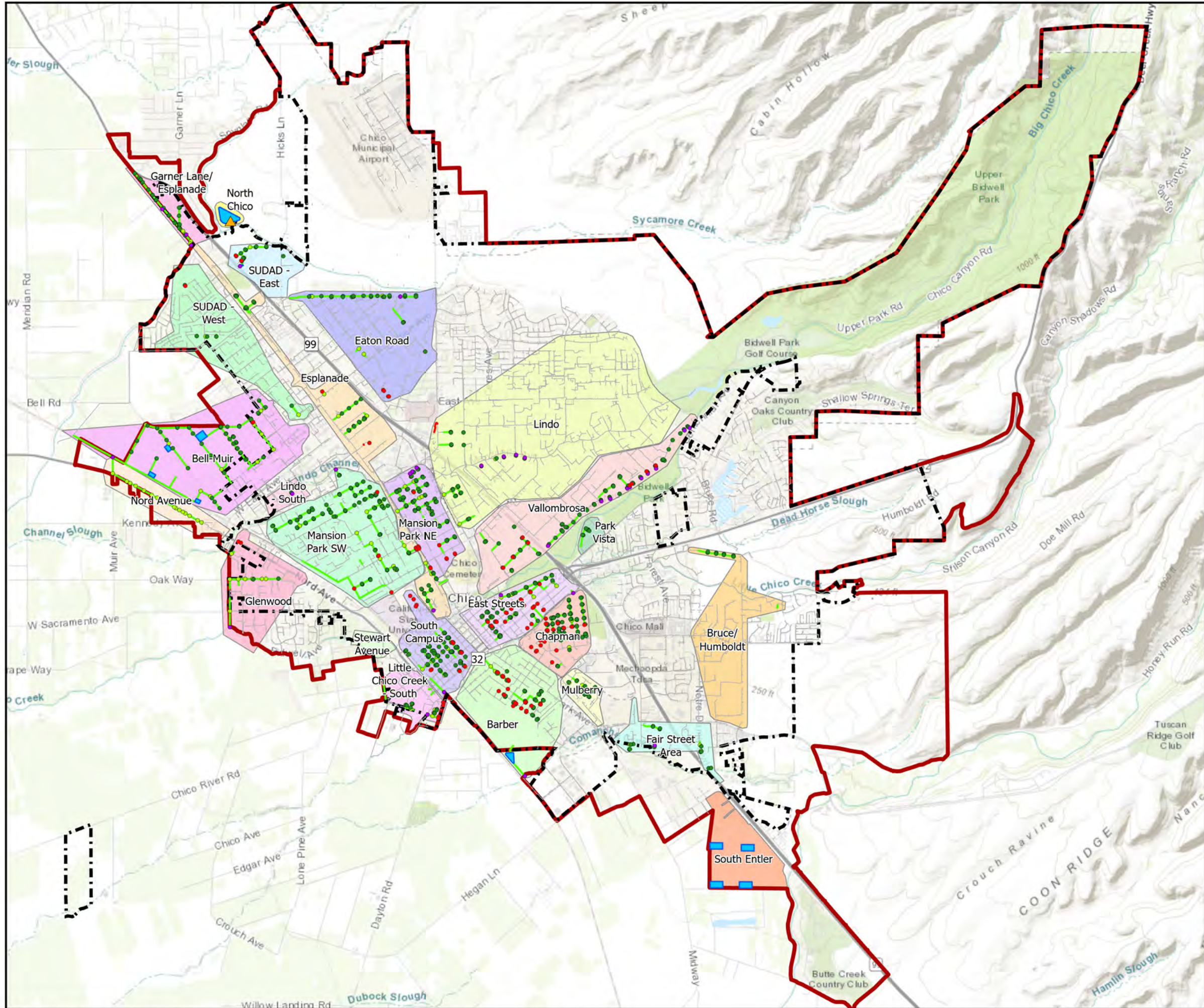
**HEC-RAS STREAM MODEL 200-YEAR
FLOODPLAIN INUNDATION RESULTS
GREATER THAN 3 FEET**
CITY OF CHICO
DECEMBER 2024



- Legend
- Streams
 - SPFC Levee
 - Study Limits
 - Sphere of Influence
 - City Limits
 - < 10 sq mi Watershed Flooding
- 200-Year Inundation Area
- 0 feet - 3 feet
 - 3 feet - 5 feet
 - 5 feet - 8 feet
 - 8 feet- 11 feet
 - 11 feet - 15 feet
 - Greater than 15 feet

NOTES:
1. This map shows flooding resulting from breaches at identified locations.
2. This map does not show flooding from local rainfall.

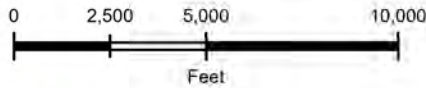




STORM DRAIN CIP GROUPINGS

STORM WATER MASTER PLAN

CITY OF CHICO
OCTOBER 2025



- Proposed Manhole
- Proposed Drop Inlet
- Proposed Outfall
- Remove/ Replace Inadequate Drop Inlet
- Proposed Pump
- Proposed Pipe
- Remove/Replace Inadequate Pipe
- Existing Pipe
- Proposed Detention Basin
- City Limits
- Sphere of Influence

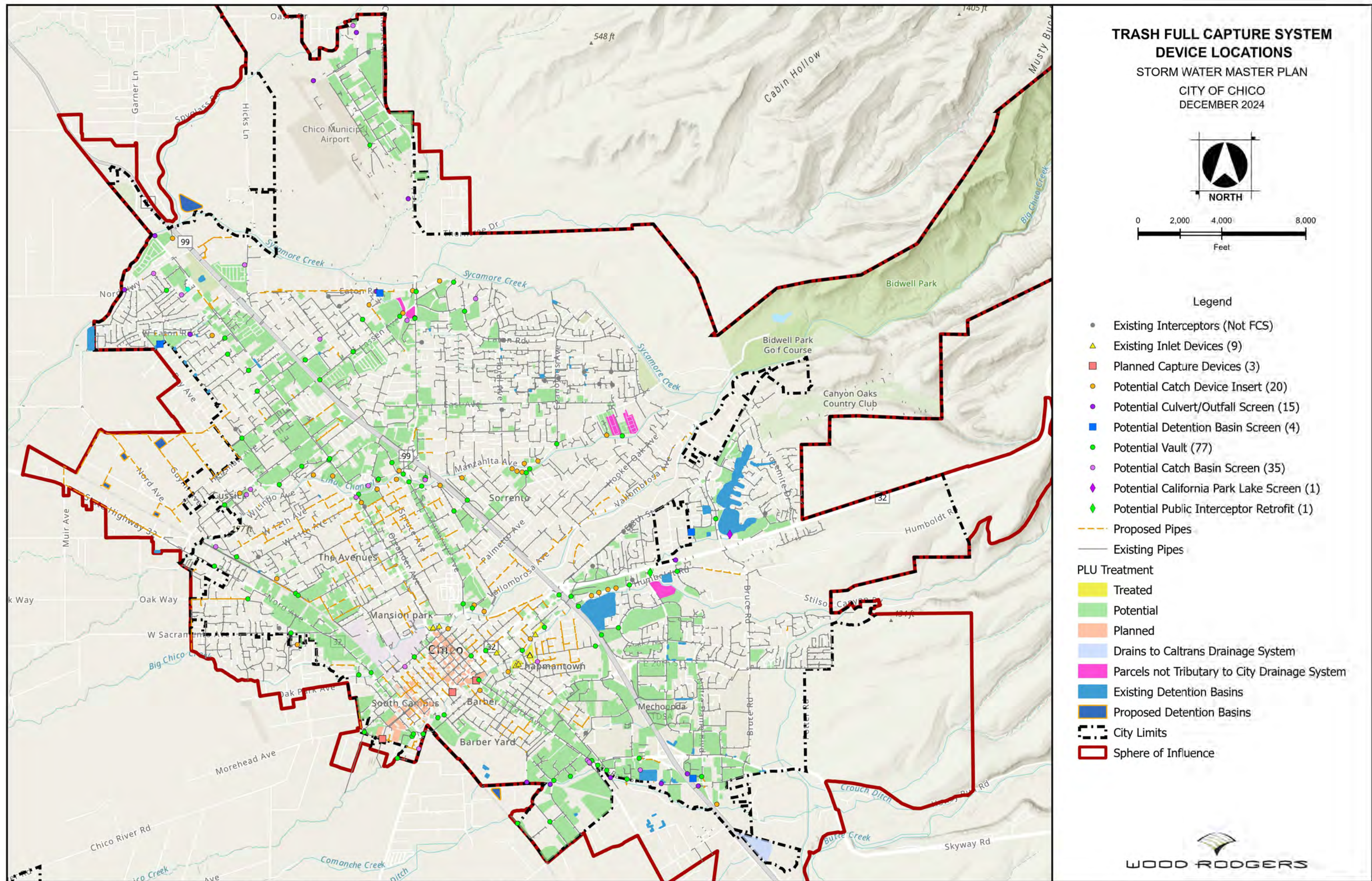
Project Groups

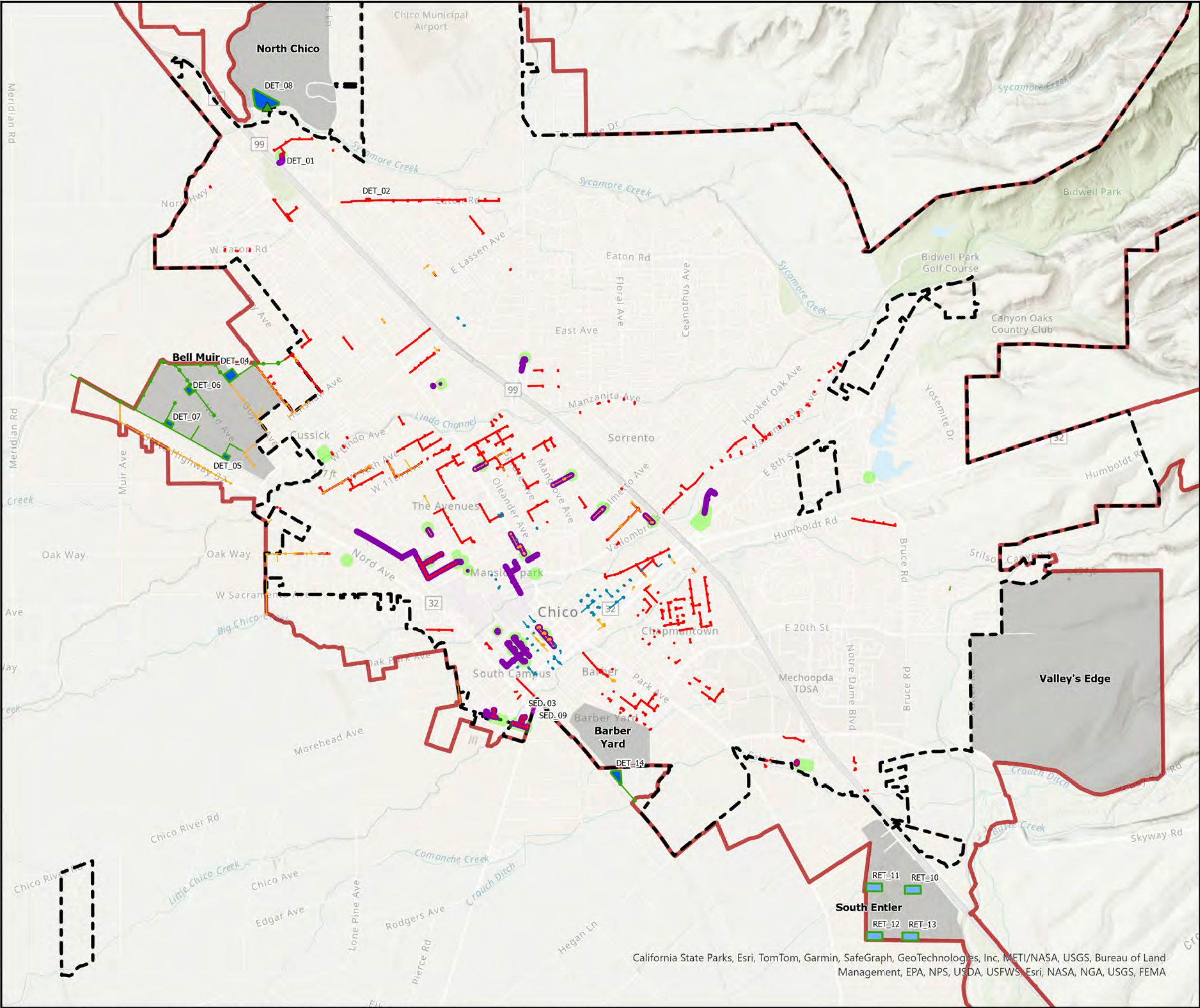
- Barber
- Bell-Muir
- Bruce/ Humboldt
- Chapman
- East Streets
- Eaton Road
- Esplanade
- Fair Street Area
- Glenwood
- Lindo
- Lindo - South
- Little Chico Creek - South
- Mans on Park NE
- Manson Park SW
- Mulberry
- Nord Avenue
- North Chico
- Park Vista
- SUDAD - East
- SUDAD - West
- South Campus
- Stewart Avenue
- South Entler
- Vallombrosa
- Garner Lane/Esplanade

NOTES:
1. Barber Yard Basin and Outlet are shown, but associated costs for these facilities are not included in the SWMP planning costs.
2. Basins proposed to accommodate future development are conceptual. Alternative configurations of regional basins, and/or project-specific basins, could be constructed in order to meet the objective of the SWMP.

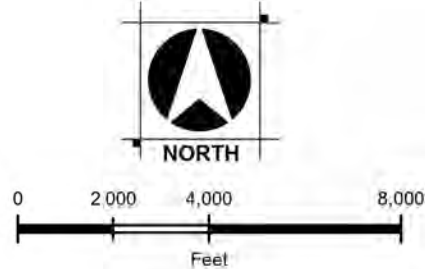


FIGURE 50





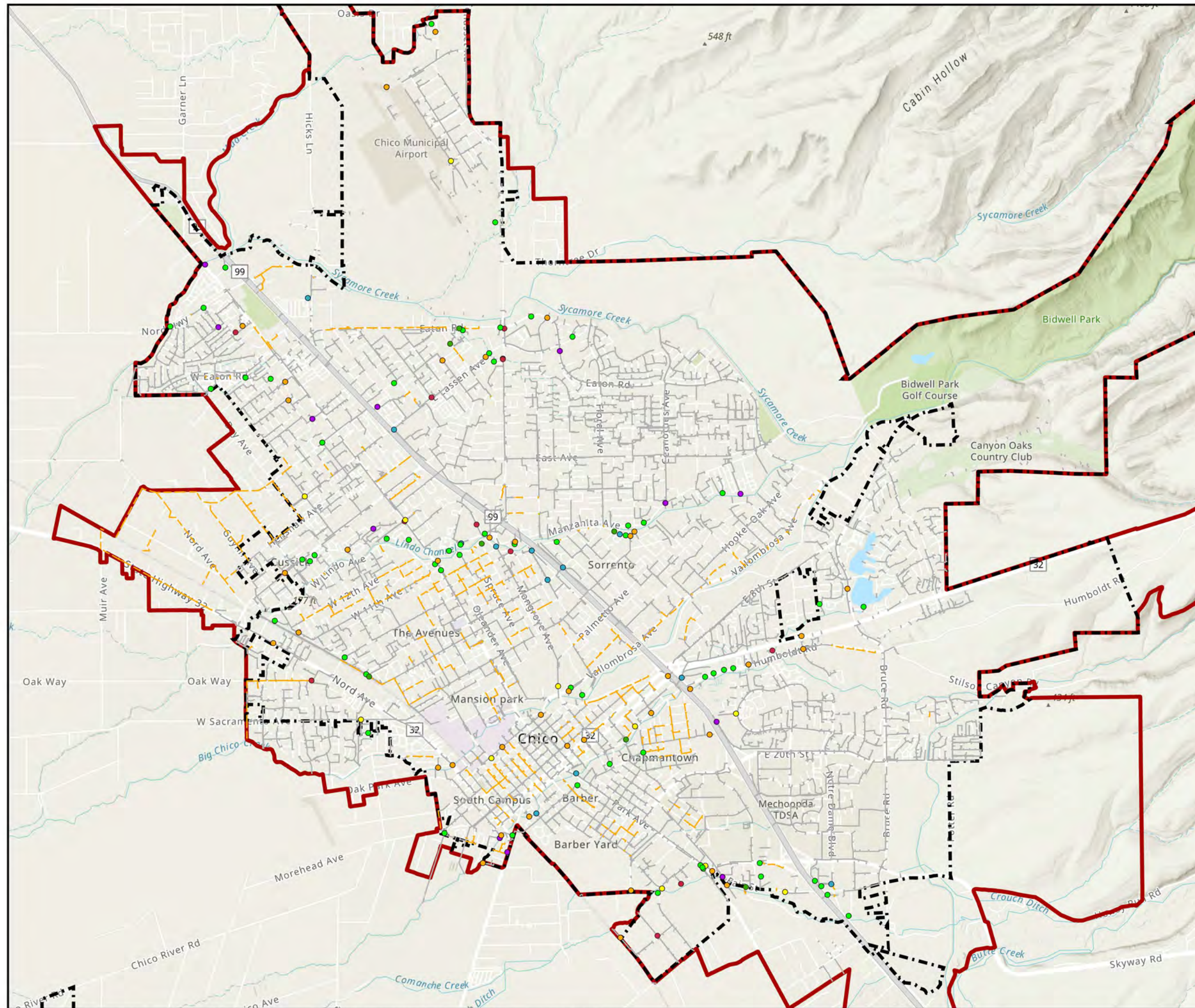
PROJECT CATEGORIES
STORM WATER MASTER PLAN
CITY OF CHICO
DECEMBER 2024



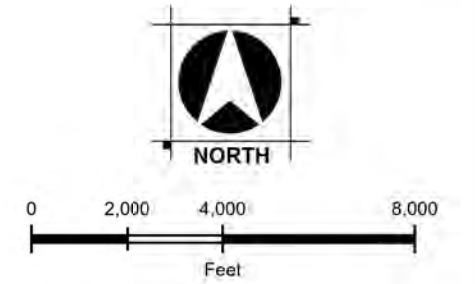
- Legend**
- ▲ Pump to Accommodate Future Development
 - To Alleviate High Priority Deficiencies
 - To Accommodate Curb and Gutter
 - Connects to Capped/Drywell/Bubble-up Systems
 - To Accommodate Future Development
 - To Alleviate Other Deficiencies
 - Known Existing Deficiencies (Excluding Maintenance)
 - Retention Basin to Accommodate Future Development
 - Sedimentation Basin to Alleviate High Priority Deficiencies
 - Detention Basin to Accommodate Curb and Gutter
 - Detention Basin to Accommodate Future Development
 - Detention Basin to Alleviate High Priority Deficiencies
 - Special Planning Areas
 - Sphere of Influence
 - Chico City Limits

California State Parks, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, USDA, USFWS, Esri, NASA, NGA, USGS, FEMA





TRASH FULL CAPTURE SYSTEM IMPLEMENTATION YEARS STORM WATER MASTER PLAN CITY OF CHICO DECEMBER 2024



- Legend**
- Proposed Pipes
 - Existing Pipes
 - Sphere of Influence
 - City Limits
- Implementation Year Based on Efficiency**
- 1
 - 2
 - 3
 - 4
 - 5
 - FCS Requires Value Engineering
 - FCS on Proposed Storm Drain

