



Carson City Planning Division

108 E. Proctor Street
Carson City, Nevada 89701
(775) 887-2180 – Hearing Impaired: 711
planning@carson.org
www.carson.org/planning

LATE INFORMATION

MEMORANDUM

Historic Resource Commission Meeting of September 11, 2014

TO: Historic Resource Commission **Item J-3**

FROM: Susan Dorr Pansky, AICP
Planning Manager

DATE: September 11, 2014

SUBJECT: **HRC-14-056 – Updated Report and Modification to Recommended Conditions of Approval for Wastewater Treatment Plant Rehabilitation/Upgrades, Sewer Line Replacement and Stormwater Improvements**

On September 5, 2014, staff received an updated report from Great Basin Consulting that was completed as a result of clarification from Public Works on the scope of the work for the above-referenced project. Public Works clarified that the proposed improvements in Vicee Canyon had been eliminated and further clarified that the extent of the Lakeview stormwater improvements includes only minor additions of curb and gutter in previously disturbed right-of-ways. The Lakeview improvements no longer include detention basin maintenance. A copy of the revised report has been attached for your reference.

In light of these clarifications, the following recommended conditions of approval are no longer applicable:

5. A construction fence shall be placed along the north bank of Vicee Canyon to restrict access to the construction camp above the drainage.
6. The following conditions are required to address potential adverse effects to the Virginia and Truckee Railroad Grade associated with proposed detention basin maintenance:
 - a. An archaeological monitor shall be present during maintenance activities adjacent to the railroad grade;
 - b. Any features such as culverts or construction materials associated with the railroad grade shall be documented;
 - c. The document narrative shall be appended to existing site records for the Carson City portion of the railroad grade and submitted to SHPO.

Staff requests that these conditions be removed from the current recommendation for approval of the project. If you have any questions, please contact Susan Dorr Pansky at (775) 283-7076 or spansky@carson.org. Thank you.

Attachment

**A Cultural Resources Report for Proposed Clean Water State Revolving
Fund 2014 Sewer Replacement and Storm Water Improvements, Carson
City, Nevada**

Prepared By:
Michael Drews
Project Archaeologist
Great Basin Consulting Group, LLC
Project Number:

Submitted To:
David Bruketta
Carson City Public Works

September 3, 2014



TABLE OF CONTENTS

Table of Contents	i
List of Attachments	i
Project Description.....	1
Project Background	1
Environmental Background	3
Area of Potential Effect Definition	3
Methods.....	3
Results of the Inventory	4
Visual Effects.....	5
Management recommendations.....	5
Inadvertent Discovery.....	8

List of Attachments

Attachment 1 – Figures

PROJECT DESCRIPTION

Project Background

Carson City proposes to utilize State Revolving Funds to upgrade portions of the Carson City Wastewater Reclamation Facility (WRF), replace aging sewer lines and upgrade storm water drainage. The majority of the loan funding will be used for rehabilitation of the WRF. This project includes rehabilitation of the preliminary/primary treatment, secondary treatment, and solids handling and effluent pumping as well as overall site improvements. Funding will also be used to repair or replace aging sewer main in the vicinity of Winnie and Fleischmann Streets, Minnesota Street, and along Pheasant Drive to reduce infiltration.

The remaining loan funds will be used for storm water drainage and quality improvements throughout Carson City. Improvements are proposed in the Kings Canyon, West Washington Street, Western Nevada Community College, Timberline Drive, King Street, Lower Goni Wash, Lakeview Road, Carson Street, Curry Street, and South Edmonds Drive areas. Various improvements at these locations may include: the addition of curb and gutter, limited underground storm drain piping, restoration of catchment basins and channels, and minor storm drain improvements. The new and replacement storm water improvements will be installed in already disturbed areas and existing street rights-of-way. Storm water projects should help minimize inflow and help the City maintain compliance with its National Pollution Discharge System permit.

NDEP has previously assessed the potential environmental effects of the proposed project and determined that the project is eligible for a finding of no significant impact because it is unlikely to have a negative effect on the quality of the environment and an environmental impact statement is not required. To comply with section 106 of the National Historic Preservation Act, NDEP forwarded their findings to Nevada SHPO for review. For the most part, SHPO concurred that the proposed project would have no effect on historic properties, with the following conditions:

1. All rehabilitated facilities, structures, and the sewer main replacements are under 50 years of age.
2. The Rehabilitation of the wastewater reclamation facility will not significantly alter the current visual landscape.
3. SHPO reviews of the design plans for the additional curb and gutters, restoration of catchment basins and channels, as well as Storm Water Improvement Projects prior to construction for the following project components in order to ensure that the undertaking does not result in an adverse effect to historic properties:
 - a. Citywide Minor Storm Water Improvement Projects at W. Ann Street and N. Curry Street, which is noted to include "install pipe, inlets and related items within right-of-way."
 - b. King Street Drainage Improvements at West of Ormsby

Boulevard, which is noted to include "install curb/gutter sidewalk and small berm within right-of-way."

- c. West Washington Storm Drain Pipe Project at Ormsby Boulevard to Richmond, which is noted to include "install pipe, inlets, manholes and related items within the right-of-way."
4. There is an archaeological monitor present on location during ground disturbing activities for the following project locations:
- a. Western Nevada Community College Storm improvements Vicee Landscaping at the Combs Canyon Road and Large Basin South of Western Nevada Community College, which is noted to include "Install pipe, inlets and curb/gutter within right-of-way" as well as "Natural landscaping around inside slope of basin."
 - b. South Carson Street Storm Water System Improvements at Rhodes Street to USFS, which is noted to include "install pipe, resize existing basin and related items."
 - c. Citywide Minor Storm Water Improvement Projects at Snyder Avenue and S. Edmonds Drive, which is noted to include "install valley gutter with trench drain."
5. The following project components have no conditions for a determination of no adverse effect:
- a. Timberline Sediment Control Project at Various Streets, which is noted to include "Install pipe, inlets and curb/gutter within right-of-way."
 - b. Lower Goni Wash Water Quality Improvements at N. Lompa Lane, which is noted to include "Improve existing berms and install outlet control."
 - c. Citywide Minor Storm Water Improvements Projects at E. Clearview Drive and S. Edmonds Drive, which is noted to include "Install pipe, inlets and related items within right-of-way."

The SHPO did not concur with the EPA's determination that the following actions under the proposed undertaking will not pose an adverse effect to historic properties:

- 1. Kings Canyon Channel Maintenance Project at South Roop Street East. This is because this channel is over 50 years of age and other segments of this historic ditch have been determined eligible for the National Register of Historic Places. Additional identification work by a

cultural resource professional is needed for the SHPO to review this portion of the undertaking.

2. Lakeview Storm Drain Upgrade Improvements at Various Locations. This is because it is currently unclear where these upgrades will occur.

SHPO also directed NDEP and the Carson City Public Works Department to solicit comments from the Carson City Historic Resources Commission regarding the project.

To comply with SHPO's conditional approval, the Carson City Public Works Department engaged Great Basin Consulting Group, LLC. to conduct a Class I Cultural Resource Inventory in the vicinity of the proposed projects for the purpose of providing a staff report to the Carson City Historic Resources Commission, and addressing and clarifying SHPO's concerns.

Environmental Background

The project area is scattered within the developed urban area of Carson City. The West Side Historic District and several individual properties are listed on the National Register of Historic Places. The Nevada State Prison and portions of the Virginia and Truckee Railroad are considered eligible to the National Register, but not currently listed.

Area of Potential Effect Definition

All proposed development will occur within previously disturbed areas. A 15 foot buffer defines areas of direct construction effects. Several sewer lines scheduled for replacement are more than 50 years old and will be effected by the proposed actions. Since the Nevada State Prison lies within the view shed of above ground improvements to the WRF, the Area of Direct Potential Effect (APE) is defined as a ¼ mile view shed surrounding that property. The remaining sewer and storm water treatments are will replace or repair existing facilities. Replacement of existing buried sewer lines will have no visual effect on surrounding properties.

METHODS

A search of architectural and archaeological records available within the Nevada Cultural Resource Inventory System (NCVRIS), and architectural records archived at SHPO and Carson City Community Development were checked historic properties and previous inventories within the project area. Historic aerial photographs, topographic maps, and GLO plats were also reviewed. Field photography was utilized for an assessment of visual effects.

RESULTS OF THE INVENTORY

Wastewater Reclamation Facility

The Wastewater Reclamation Facility is located along the north side of 5th Street between Airport Road and Fairview Drive. Structures within the facility are one cinderblock buildings and two story tall treatment tanks located behind an eight foot tall cinderblock fence (Figure 1). Prior to development of the treatment plant in the 1960s, 5th Street extended along an east/west line north of the Nevada State Prison. By 1967, a curve was placed in the road (Figure 2). The old road alignment would have been located atop the eastbound travel lane of the current roadway. An 1150 foot long rock wall separates the barrier fence from 5th Street (see Figures 3-6). The wall lies 40 feet from the existing road shoulder and approximately 60 feet north of the original road alignment. It stands 3-4 feet tall, three feet wide, and is constricted of loose sandstone rubble. A driveway into the WRF breaks the alignment. The western section stands three feet tall with dirt filling an opening between single width walls. The eastern section is capped with concrete slabs. It stands 4 feet tall. A taller angled wall lies 75 feet north of the rock wall. It is 7 feet tall, four feet wide and 100 feet long. Three courses of concrete slab are interspersed with the dominant sandstone rubble.

No documentation exists on the date of wall construction, but some repair work was completed by city crews during the 1990s. A 1953 aerial photograph shows open ground and no wall in the vicinity of the WRF location (Figure 7). By 1967, a hint of the taller wall is visible near the entrance to the new treatment facility (Figure 8). Remnant portions of the straight 5th Street alignment are visible on Nevada State Prison property near the 5th Street bend, and no evidence of the rock wall occurs in that area. From historic aerial photographs and physical evidence, it is assumed that the wall dates to the construction of the treatment facility and is less than 50 years of age.

Sewer Replacement Lines

Four sewer lines are recommended for replacement as part of the project (Figure 9-12). Three of the lines are located on the west side of Carson City, but outside of the West Side Historic District. Remaining lines are located on the east side of Carson City near Pheasant Drive. Figures 9-12 show replacement lines that are 50 years of age or older. None of the lines near Pheasant Drive meet that criteria.

Storm Water Drainage Upgrades

Storm water drainage upgrades are proposed for eleven locations in Carson City (Figure 13-23). Modifications include installation of various treatments including curb and gutter, corrugated pipe, detention basin cleaning, and vegetation enhancements. One improvement at Ann and Curry Street (Figure 13) lies within the West Side Historic District. It consists of installing a gutter across Ann Street. The Ann and Curry Street project will be placed underground and have no effect historic properties.

Placement of corrugated pipe in the vicinity of Western Nevada Community College and near Silver Oak (Figure 14). All work will be confined to existing right-of-way. No historic properties are located in the project vicinity. Silver Oak and the Virginia and Truckee right-of-way located behind WNCC were previously inventoried. Improvements within the vicinity of WNCC will have no effect historic properties.

Storm Water improvements in the Lakeview area consist of installing corrugated pipe and curb/gutter in various locations, as well as channel restoration (Figure 15). The Marlette Waterline and water masters house are located in Lakeview, but improvements will not occur within those areas. The Lakeview storm water improvements will have no effect historic properties.

Storm water upgrades in the vicinity of Rhodes Street lie adjacent to the Nevada State Railroad Museum (Figure 16). Several pieces on display at the museum as well as the Wabuska Station are listed on the National Register of Historic Places. Maintenance activities will occur within existing detention basins and culverts. The proposed activities will have no effect on listed properties.

The remaining areas proposed for storm water drainage upgrades are not associated with historic properties. The Kings Canyon maintenance project adjacent to Governor's field (Figure 17) is less than 50 years of age, and undergoes routine cleaning. No modification of the current alignment is anticipated. Figures 18-23 show improvements along West Washington Street, Kings Canyon Road, Clearview and South Edmonds, Snyder and South Edmonds, Lower Goni Wash, and the Timberline area. The proposed activities will have no effect on historic properties.

Visual Effects

An assessment of visual effects was completed for proposed additions to the WRF. The view shed from the Nevada State Prison includes existing WRF facilities and the Carson City Corporate Yard. Proposed additions conform to the scale and mass of existing buildings and structures and will have no effect the Nevada State Prison view shed (Figure 24).

MANAGEMENT RECOMMENDATIONS

In a preliminary review of the proposed project, Nevada SHPO concurred with a determination of no effect with several conditions. The current review has clarified several questions posed by SHPO and poses some revision to their conditions and findings. We recommend the following modifications and additions to SHPO conditions:

1. All rehabilitated facilities, structures, and the sewer main replacements are under 50 years of age. - *The rock wall associated with the WRF does not meet National Register age criteria. Several sewer mains have been identified as older than 50 years of age. The following conditions are required to address potential adverse effects to sewer lines older than 50 years of age:*
 - a. *A monitor should be present during replacement of older sewer lines to document representative portions of those alignments.*
 - b. *Documentation will consist of a narrative that describes construction materials and design of the sewer alignment to be replaced;*
 - c. *A map depicting those alignments;*

d. Photographs of representative sections of each historic alignment.

2. The Rehabilitation of the wastewater reclamation facility will not significantly alter the current visual landscape. - *Concur*
3. SHPO reviews of the design plans for the additional curb and gutters, restoration of catchment basins and channels, as well as Storm Water Improvement Projects prior to construction for the following project components in order to ensure that the undertaking does not result in an adverse effect to historic properties:
 - a. Citywide Minor Storm Water Improvement Projects at W. Ann Street and N. Curry Street, which is noted to include "install pipe, inlets and related items within right-of-way."
 - b. King Street Drainage Improvements at West of Ormsby Boulevard, which is noted to include "install curb/gutter sidewalk and small berm within right-of-way."
 - c. West Washington Storm Drain Pipe Project at Ormsby Boulevard to Richmond, which is noted to include "install pipe, inlets, manholes and related items within the right-of- way."

Proposed improvements noted above are confined to existing disturbance and those improvements are less than 50 years old. The project will have no effect on historic properties.

4. There is an archaeological monitor present on location during ground disturbing activities for the following project locations:
 - a. Western Nevada Community College Storm improvements Vicee Landscaping at the Combs Canyon Road and Large Basin South of Western Nevada Community College, which is noted to include "Install pipe, inlets and curb/gutter within right-of-way" as well as "Natural landscaping around inside slope of basin."
Project was modified in August 2014 and landscaping in Vicee Canyon was eliminated. Placement of corrugated pipe will occur within disturbed right-of-way; archaeological monitoring is no longer required.
 - b. South Carson Street Storm Water System Improvements at Rhodes Street to USFS, which is noted to include "install pipe, resize existing basin and related items."

Activities are confined to existing detention basins and culverts. The project will have no effect on historic properties.

- c. Citywide Minor Storm Water Improvement Projects at Snyder Avenue and S. Edmonds Drive, which is noted to include "install valley gutter with trench drain."
Minor improvement proposed for disturbed road shoulders along Snyder and Edmonds. The project will have no effect on historic properties.

5. The following project components have no conditions for a determination of no adverse effect:

- a. Timberline Sediment Control Project at Various Streets, which is noted to include "Install pipe, inlets and curb/gutter within right-of-way."
- b. Lower Goni Wash Water Quality Improvements at N. Lompa Lane, which is noted to include "Improve existing berms and install outlet control."
- c. Citywide Minor Storm Water Improvements Projects at E. Clearview Drive and S. Edmonds Drive, which is noted to include "Install pipe, inlets and related items within right-of-way."

Concur with a, b, and c.

The SHPO did not concur with the EPA's determination that the following actions under the proposed undertaking will not pose an adverse effect to historic properties:

- 1. Kings Canyon Channel Maintenance Project at South Roop Street East. This is because this channel is over 50 years of age and other segments of this historic ditch have been determined eligible for the National Register of Historic Places. Additional identification work by a cultural resource professional is needed for the SHPO to review this portion of the undertaking.
Linear ditch is less than 50 years old and subject to routine maintenance. Project will have no effect on historic properties.
- 2. Lakeview Storm Drain Upgrade Improvements at Various Locations. This is because it is currently unclear where these upgrades will occur.
Project locations were clarified in August 2014. Minor additions of curb and gutter in disturbed right-of-way. Detention basin maintenance was removed from proposed activities. Project will have no effect on historic properties.

Inadvertent Discovery

If any buried or previously unidentified resources are located during the project activities, the SHPO recommends that all work in the vicinity of the find cease and this office be contacted for additional consultation per 36 CFR 800.13.b.3.

ATTACHMENT 1

Figures



Aerial View of Wastewater Reclamation Facility (Google Earth)



Wastewater Reclamation Facility from Airport and 5th Street, view east.

Figure 1. Wastewater Reclamation Facility.



Aerial View of Wastewater Reclamation Facility (1956 Aerial Photo)



Aerial View of Wastewater Reclamation Facility (1967 Aerial Photo)

Figure 2. Aerial View of 5th Street Curve.



Figure 3. Rock wall along 5th Street. East Segment at WRF Driveway. View East



Figure 4. Rock wall along 5th Street. West Segment at WRF Driveway. View West



Figure 5. Rock wall adjacent to WRF view West.



Figure 6. East and North Side of Rock wall adjacent to WRF view West.



Figure 7. Aerial View of Wastewater Reclamation Facility (1953 Aerial Photo)



Figure 8. Aerial View of Wastewater Reclamation Facility Showing Rock Walls (1967 Aerial Photo)

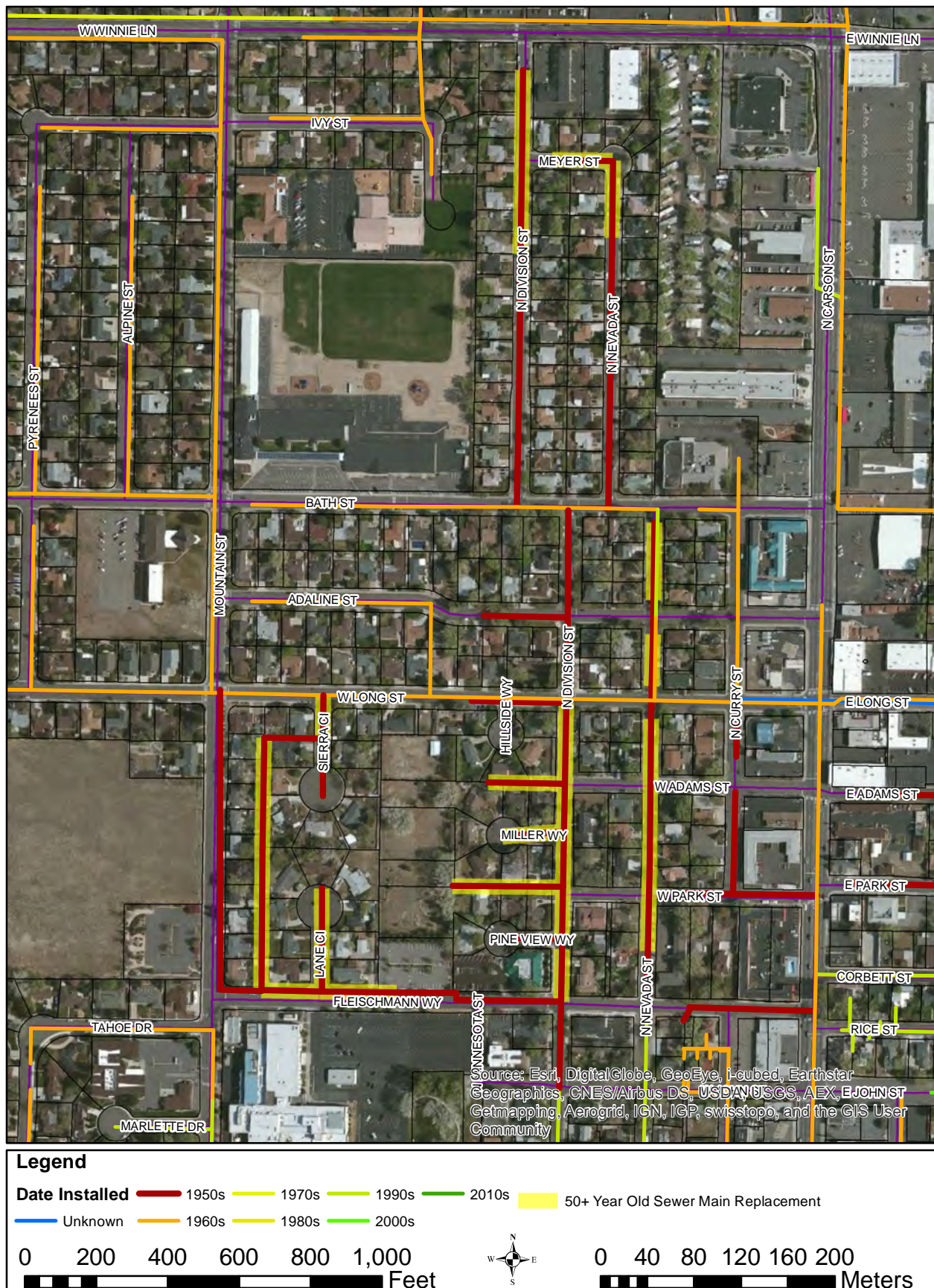


Figure 9. Sewer Main Replacement (Division Street Area)

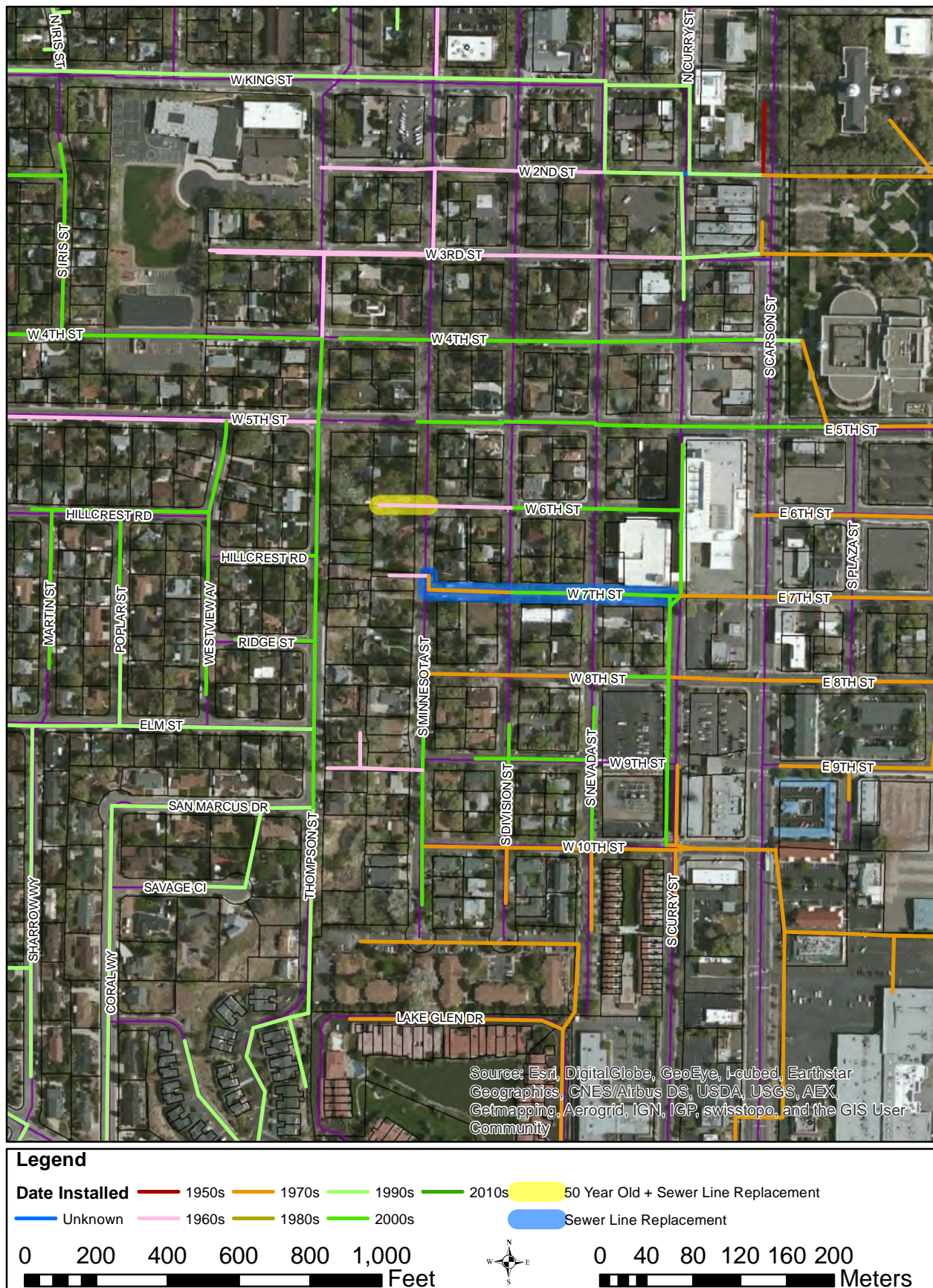


Figure 10. Sewer Main Replacement (Minnesota Street Area)

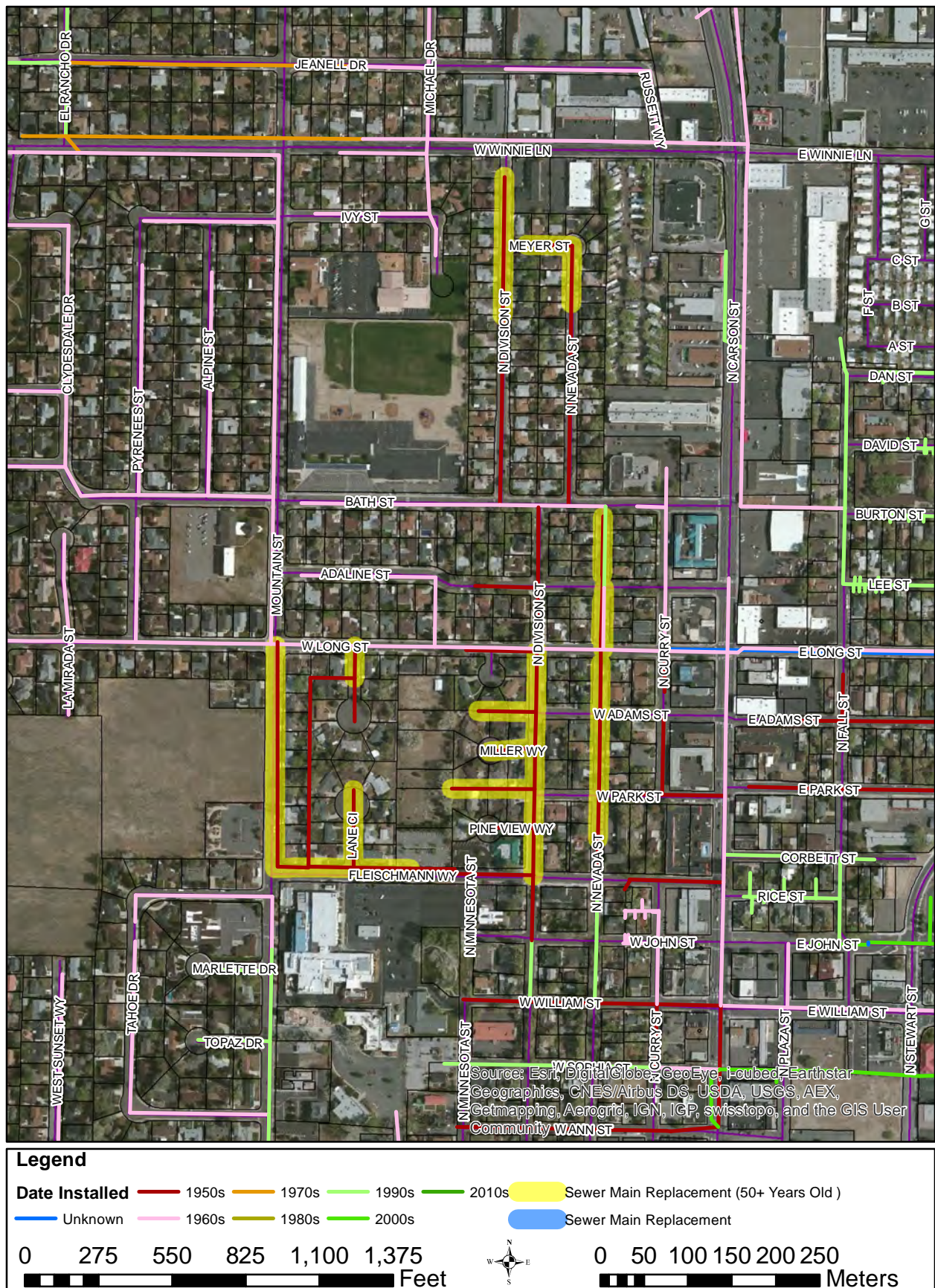


Figure 11. Sewer Main Replacement (Winnie Fleischman Area)

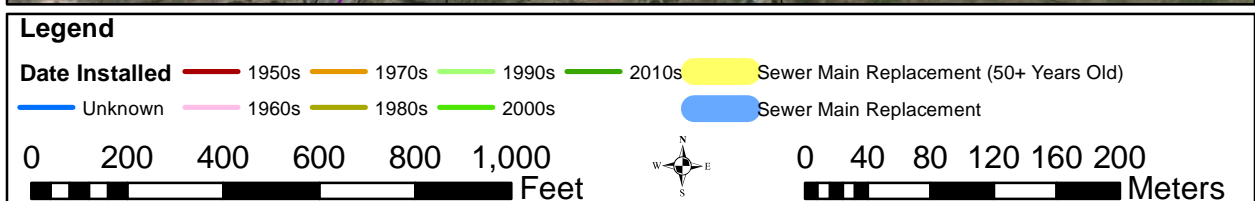


Figure 12, Sewer Main Replacement (Pheasant Drive Slipline)



Figure 13. West Ann and North Curry Stormwater Improvements.

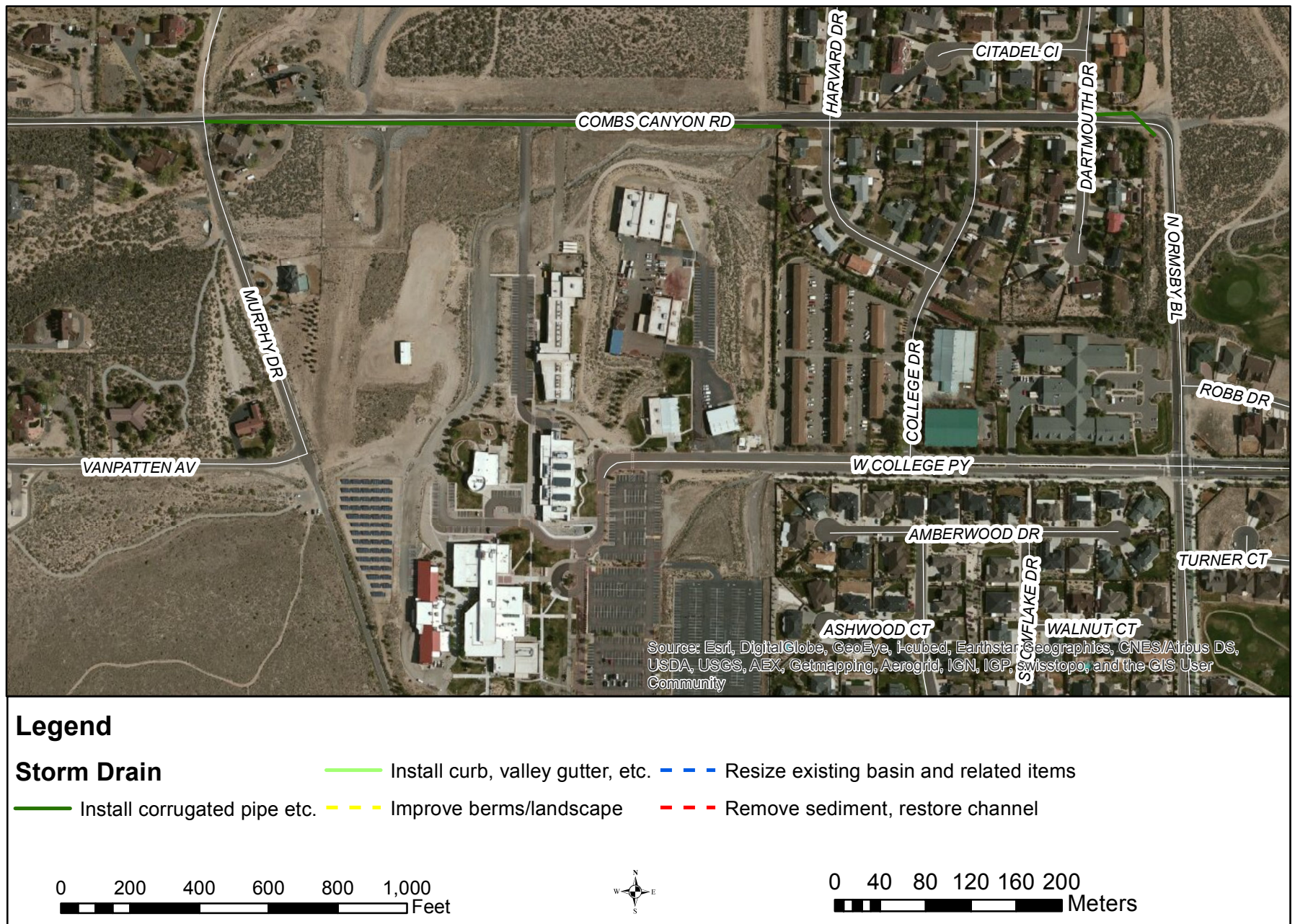


Figure 14. WNCC Storm Improvements and Landscaping Drain.

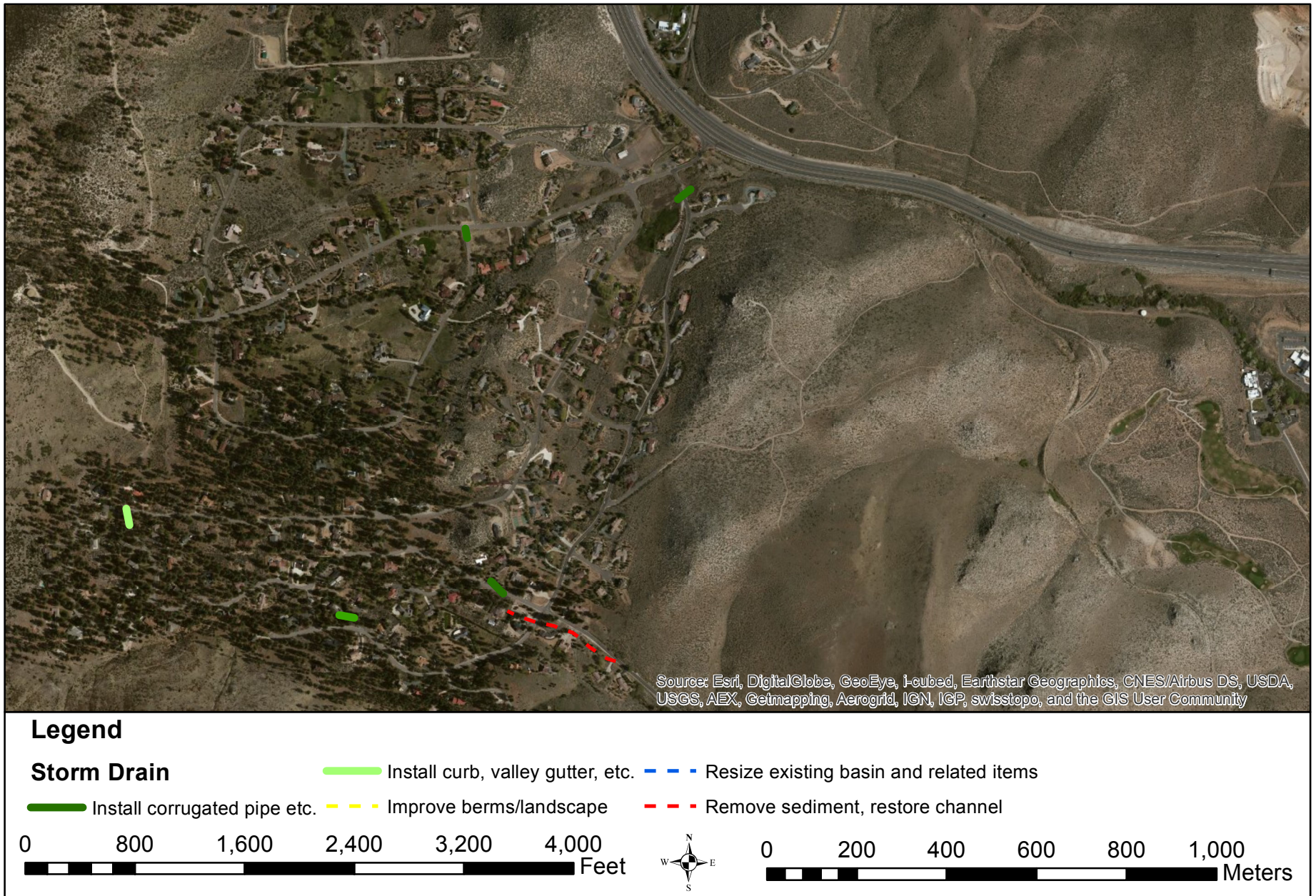


Figure 15. Lakeview Stormwater Improvements



Figure 16. South Carson Street Stormwater Improvements.

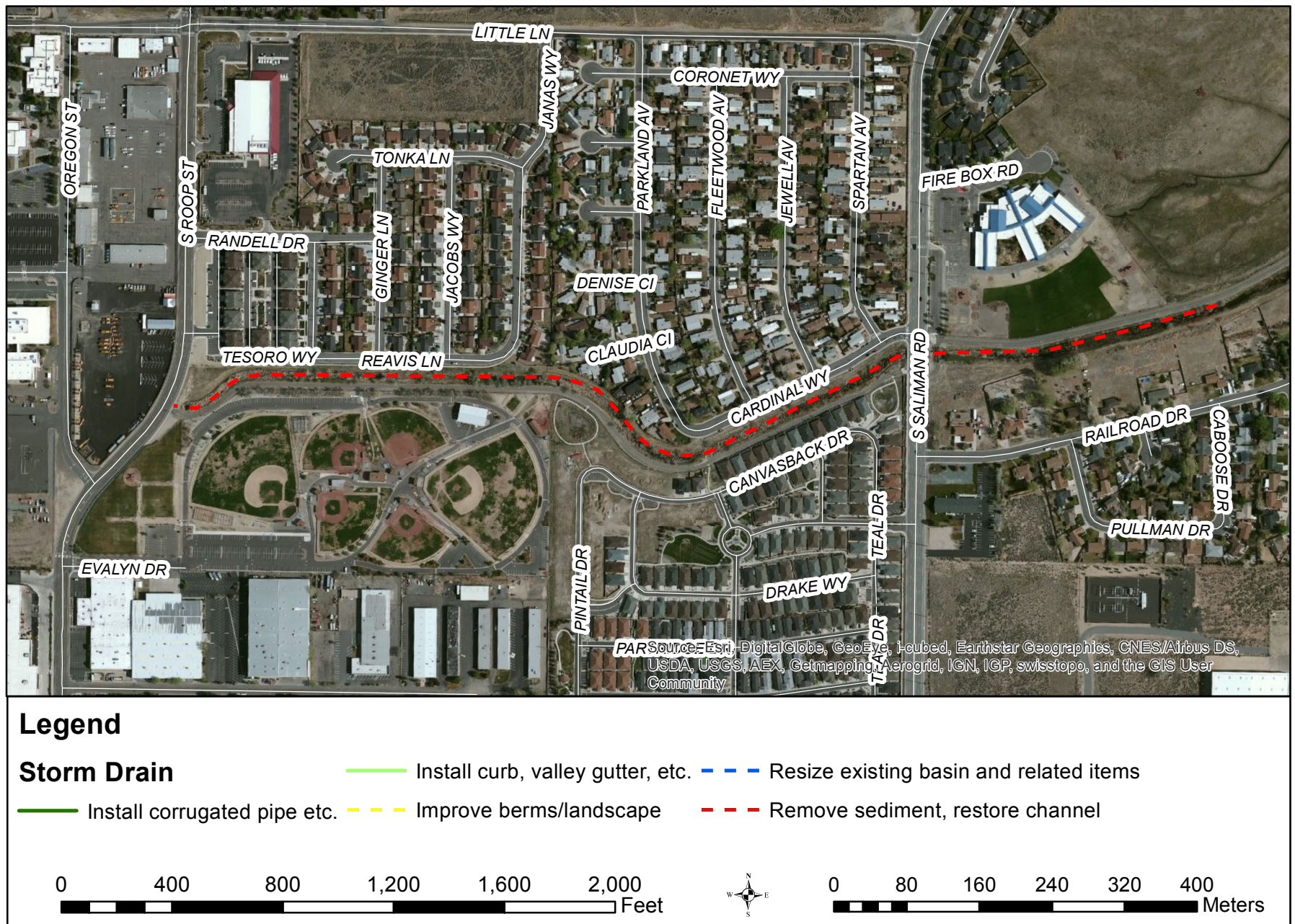
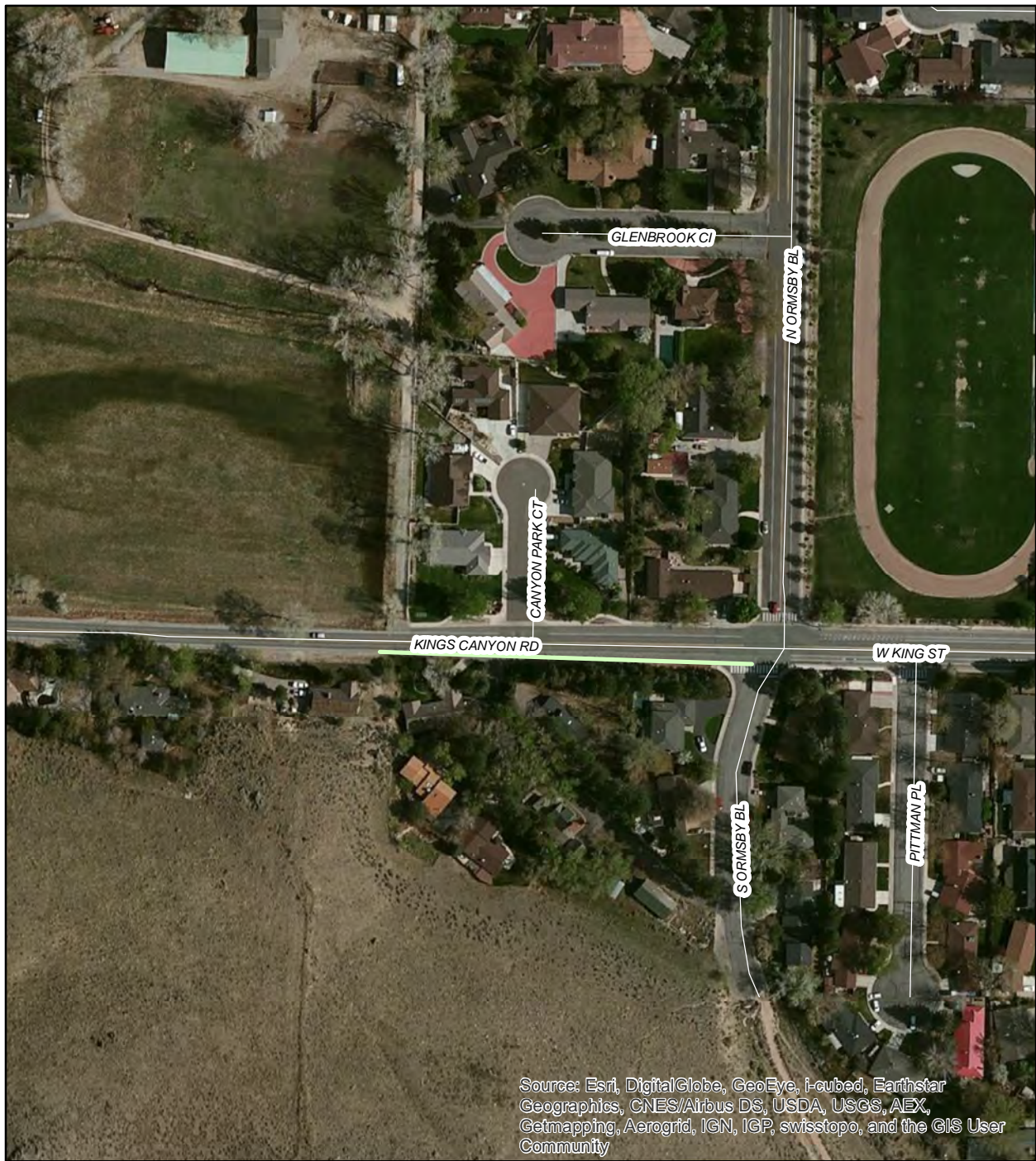


Figure 17. Kings Canyon Channel Maintenance and Berm Improvements.



Figure 18. West Washington Storm Drain.



Legend

Storm Drain

- Install corrugated pipe etc.
- Install curb, valley gutter etc.
- Improve berms/landscape
- Resize existing basin and related items
- Remove sediment, restore channel shape, and related items

0 100 200 300 400 500
 Feet



0 20 40 60 80 100
 Meters

Figure 19. Kings Street Drainage Improvements.



Legend

Storm Drain

- Install corrugated pipe etc.
- Install curb, valley gutter etc.
- Improve berms/landscape
- Resize existing basin and related items
- Remove sediment, restore channel shape, and related items

0 250 500 750 1,000 Feet



0 40 80 120 160 200 Meters

Figure 20. East Clearview and South Edmonds Stormwater Improvements.



Legend

Storm Drain

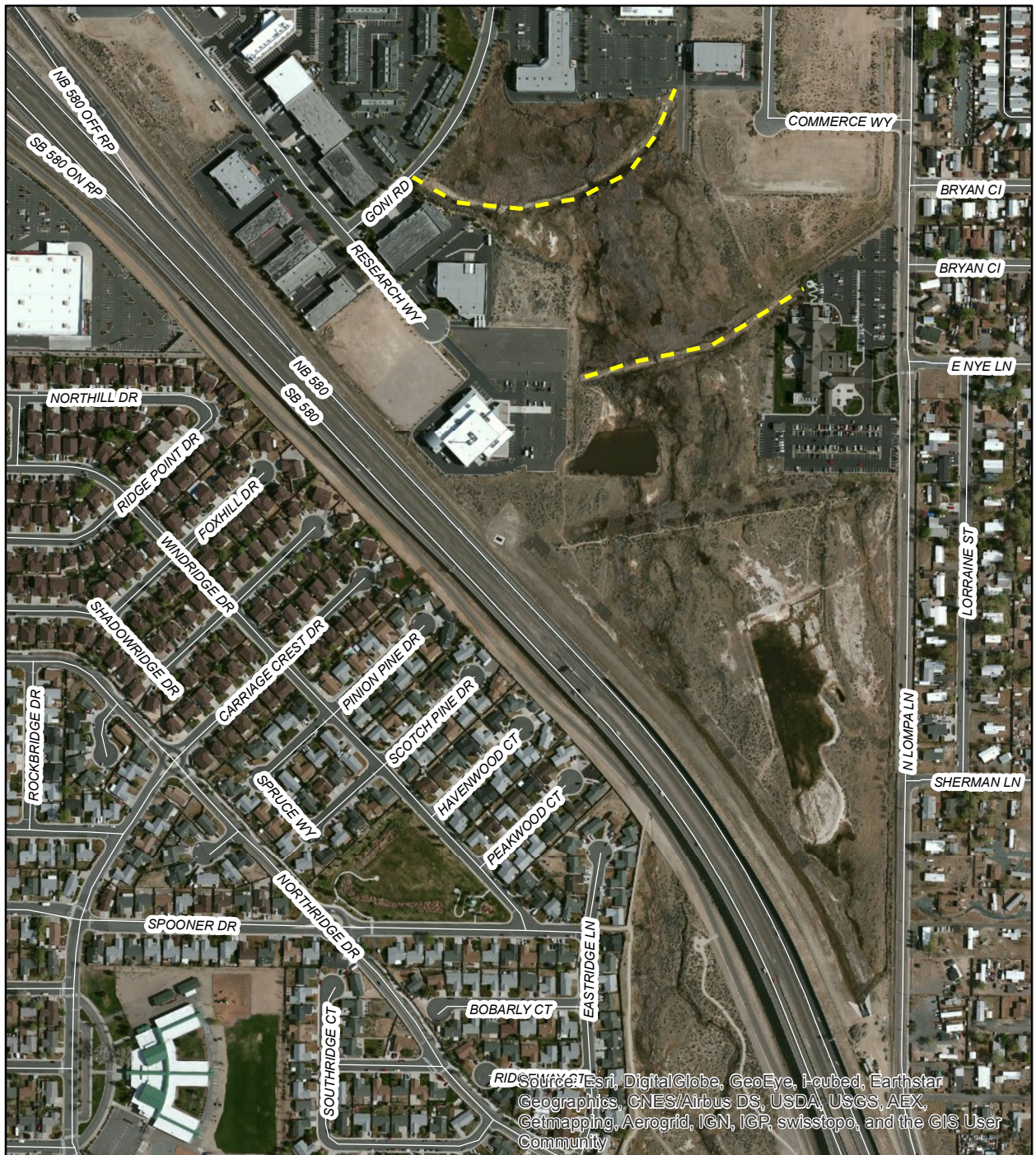
- Install corrugated pipe etc.
- Install curb, valley gutter etc.
- Improve berms/landscape
- Resize existing basin and related items
- Remove sediment, restore channel shape, and related items

0 100 200 300 400 Feet



0 20 40 60 80 100 Meters

Figure 21. Snyder and South Edmonds Stormwater Improvements.



Legend

Storm Drain

- Improve berms/landscape
- Install corrugated pipe etc.
- Resize existing basin and related items
- Install curb, valley gutter, etc.
- Remove sediment, restore channel

0 200 400 600 800 1,000
Feet



0 60 120 180 240 300
Meters

Figure 22. Lower Goni Wash Improvements

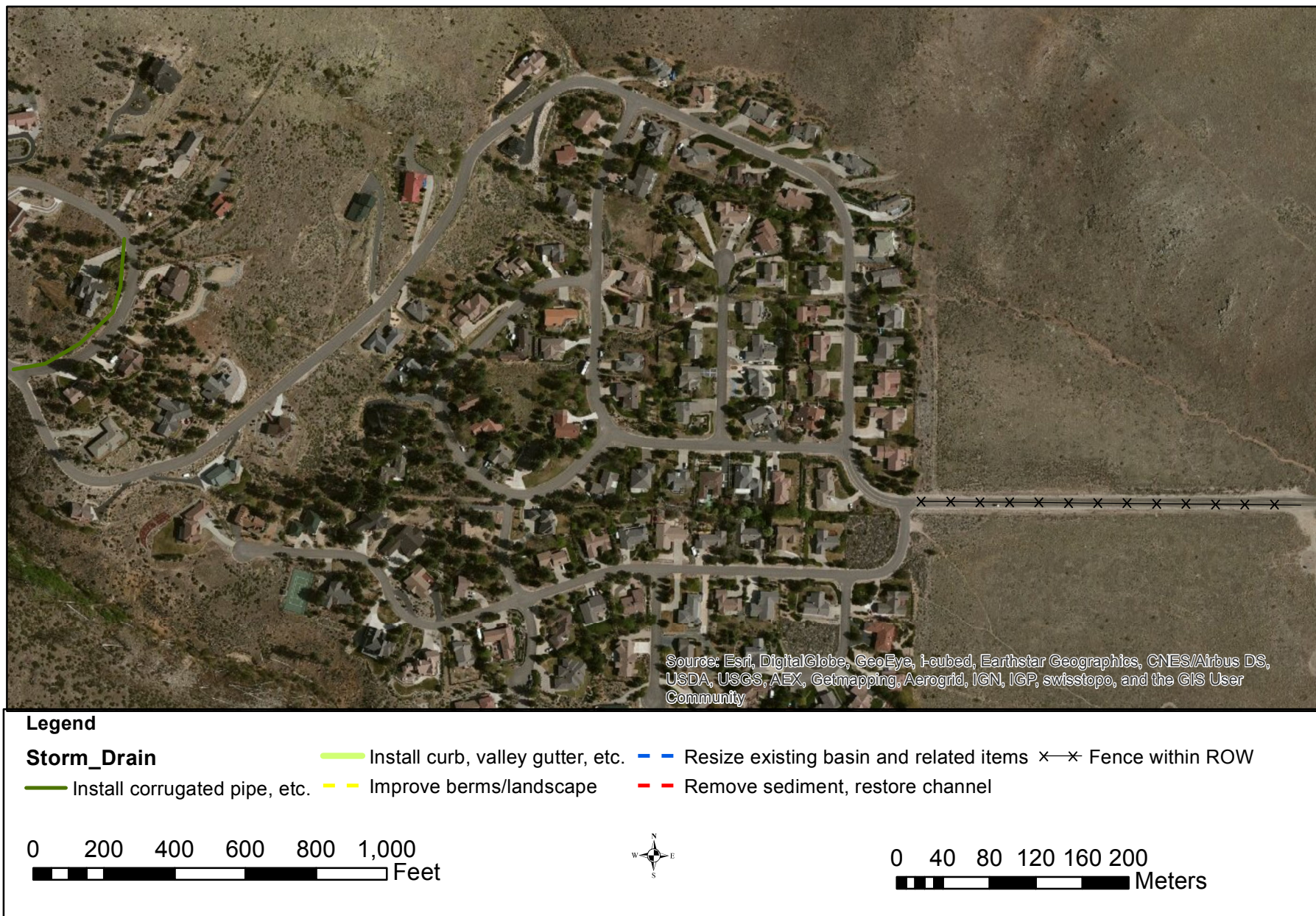
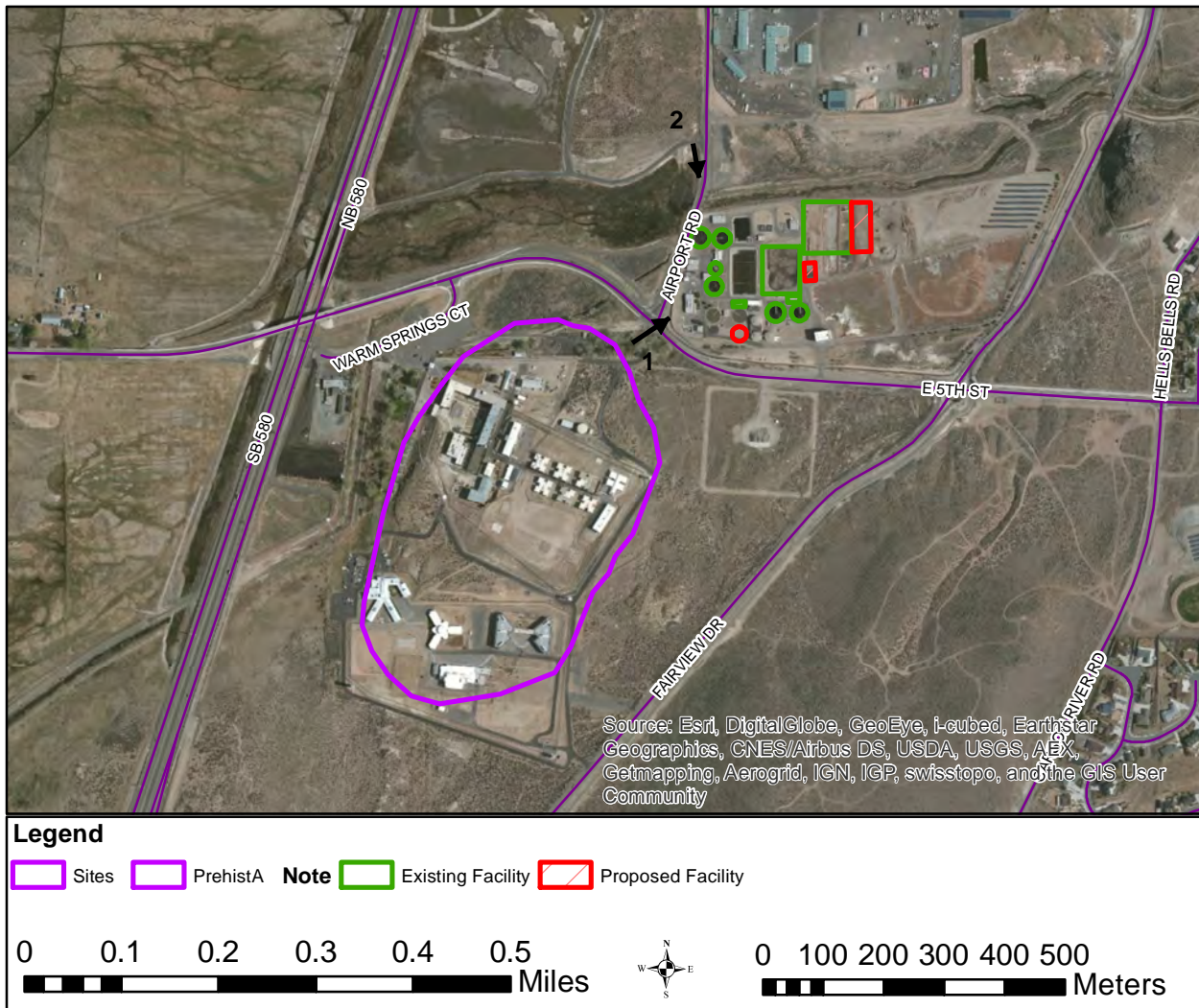


Figure 23. Timberline Sediment Control.



Wastewater Reclamation Facility (WRF) Rehabilitation.



View from E. 5th Street and Airport Road, Point 1
(Nevada State Prison)

View from Airport Road, Point 2
(SE corner 26OR131)

Figure 24. Wastewater Reclamation Facility View shed.