

TOWN OF PARADISE VALLEY

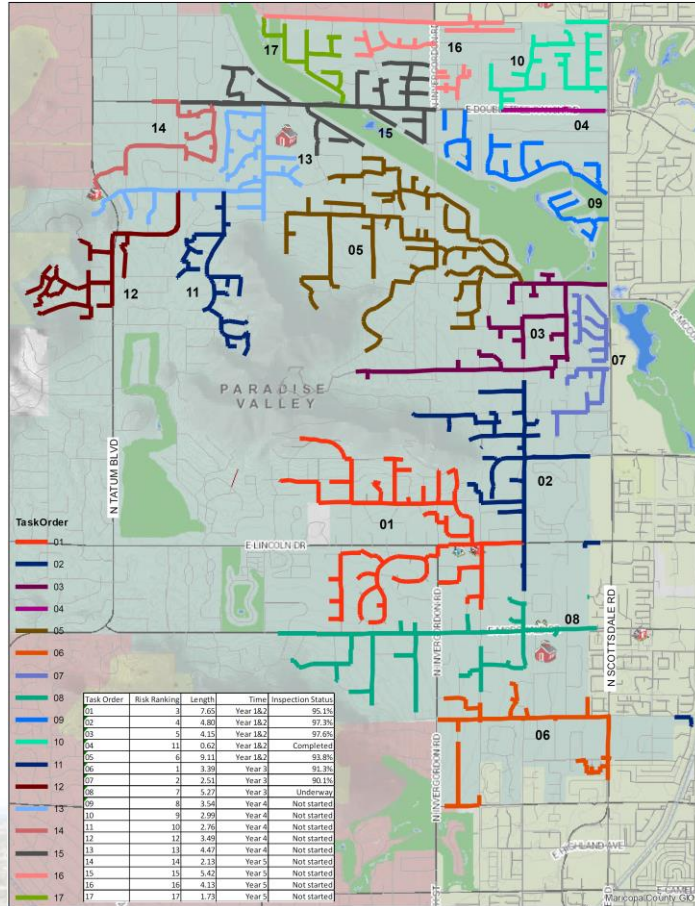
Sanitary Sewer Repair Contracts

June 10, 2021



SANITARY SEWER ASSESSMENT PROGRAM

2



Sewer Assessment Program

- Required per IGA with City of Scottsdale
- 5 Year Program with 17 Task Orders
- Currently in Year 5
- Making Repairs As Identified
- Pipes & Manholes Inspected, Videos Taken and Numerically Ranked
- Any Ductile Iron Pipe Identified to be Lined
- Consultation with City of Scottsdale
- Typical Defects Found
 - a. Offset Joints
 - b. Structural Pipe Defects
 - c. Manhole Corrosion
 - d. Buried Manholes & Cleanouts



CAST IN PLACE PIPE (CIPP) LINING INSTALLATION ³



UV Light Installation

Previous Sewer Lining Projects

- FY18-19: 650'
- FY19-20: 2,618'
- FY20-21: 1,273'
- FY20-21: 921'
- FY21-22: 743' (Proposed)
4 Point Repairs



CAST IN PLACE PIPE (CIPP) LINING INSTALLATION

4



Pre-Lining



Post-Lining



PROJECT SCOPE

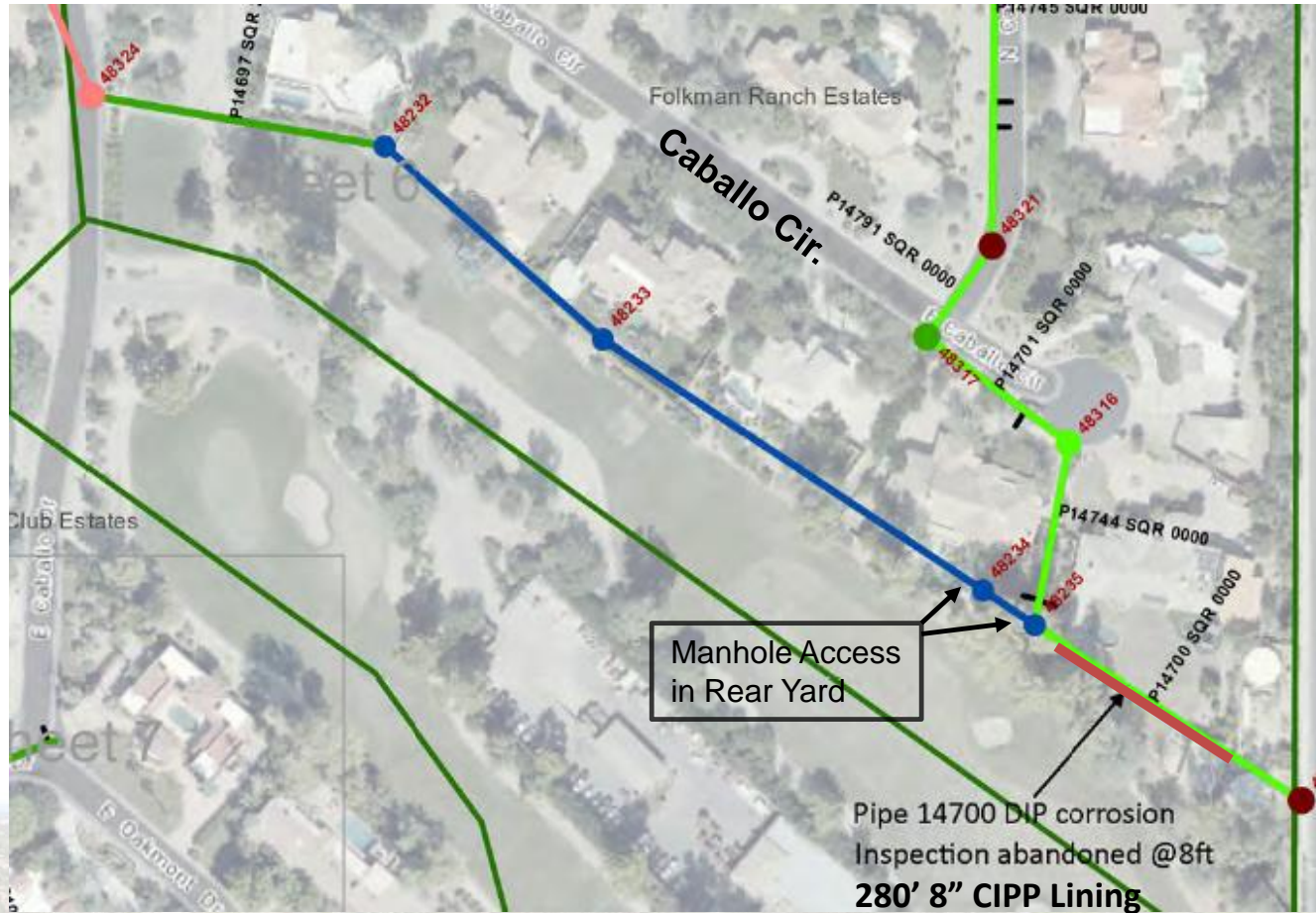
- Repair Structural Defects Identified By Sewer Assessment
 - 7 Locations with Structural Defects
 - 743' of sewer lining (3 sewer segments)
 - 4 point repairs
 - \$303,168.56 Cooperative Use Construction Contract
 - \$23,017.79 Design & Construction Administration Contract
- Repair Process Includes:
 - Resident Notification
 - Pre-Installation Video & Cleaning
 - Bypass Pumping and/or Vacuum Truck
 - Cast In Place Pipe (CIPP) Lining Technology
 - Restore Residential Connections



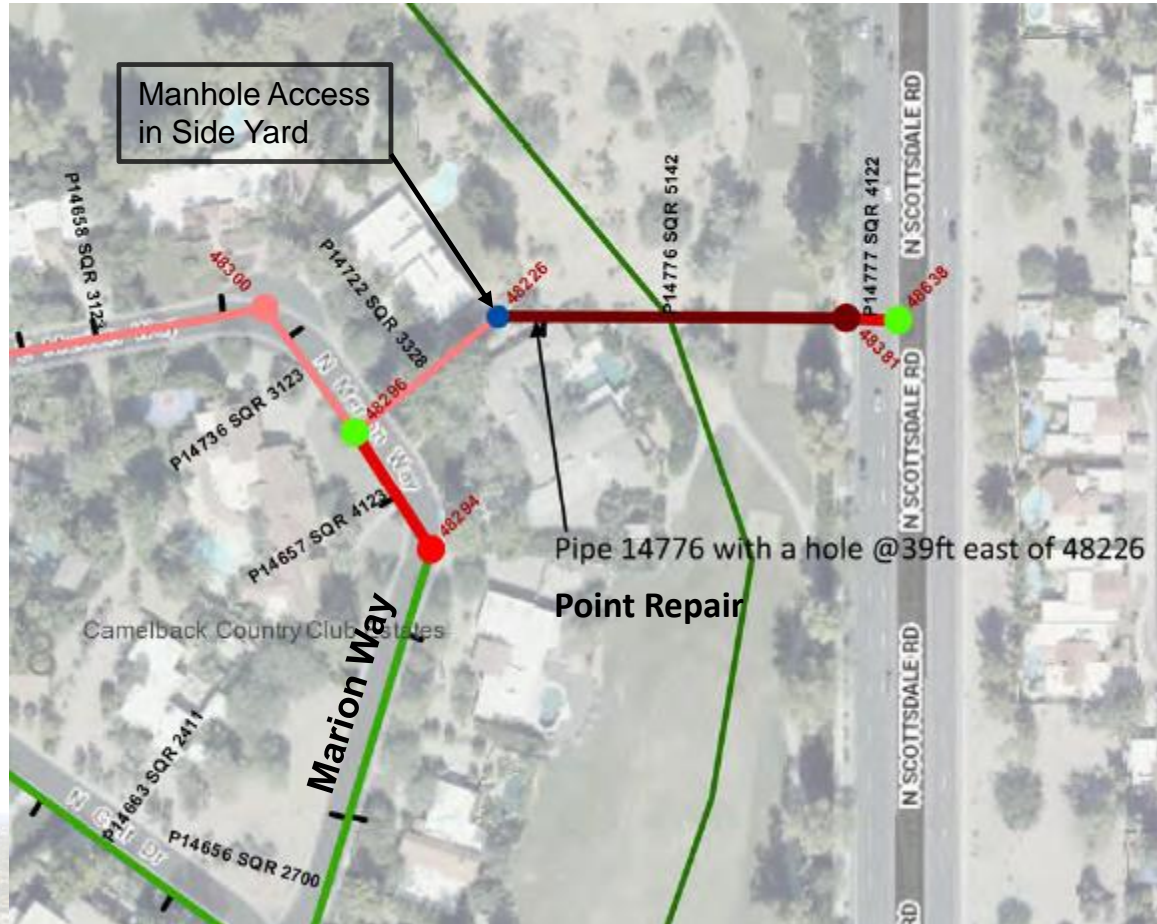
Liner Installation



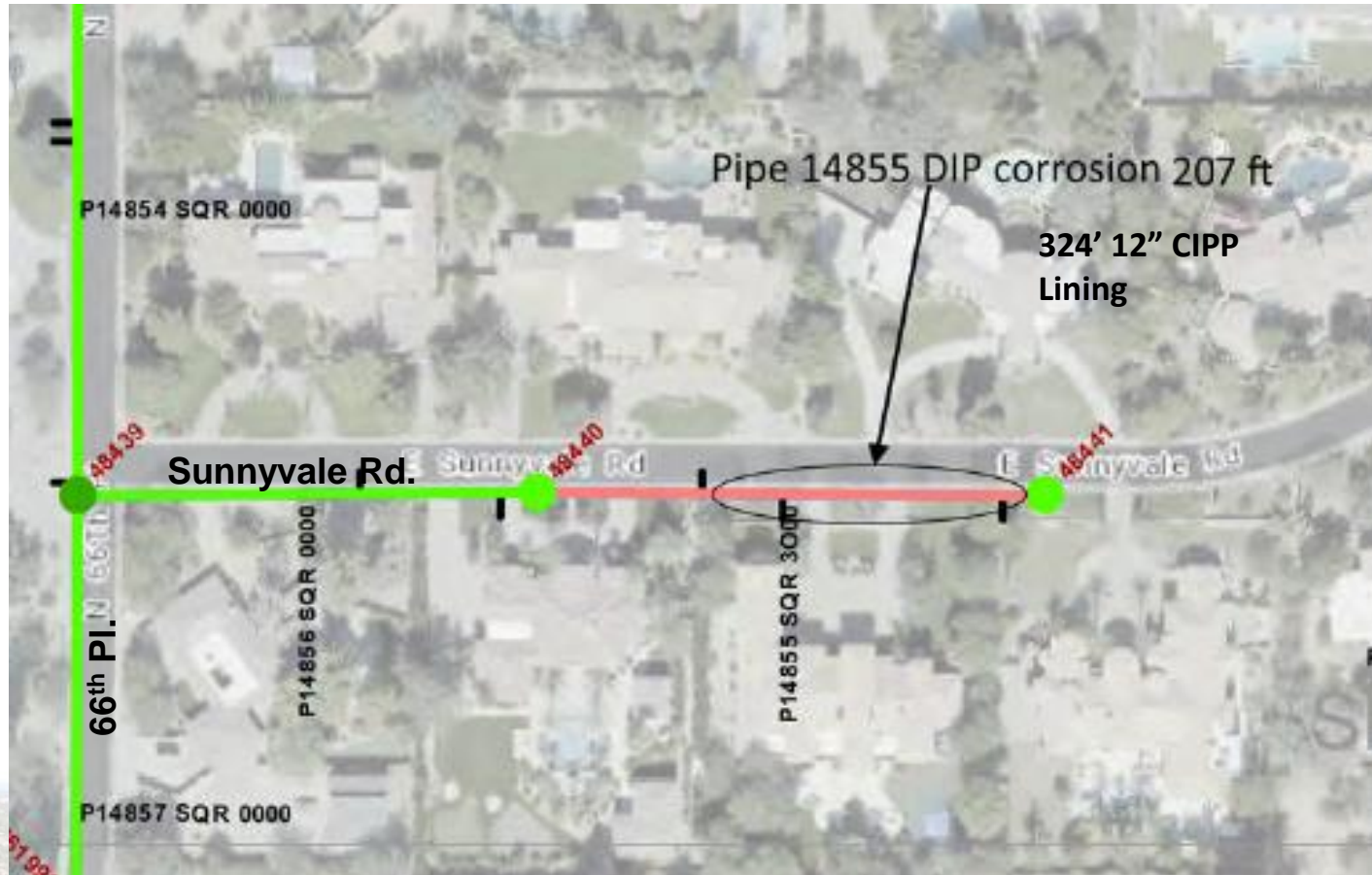
PROJECT LOCATION #1



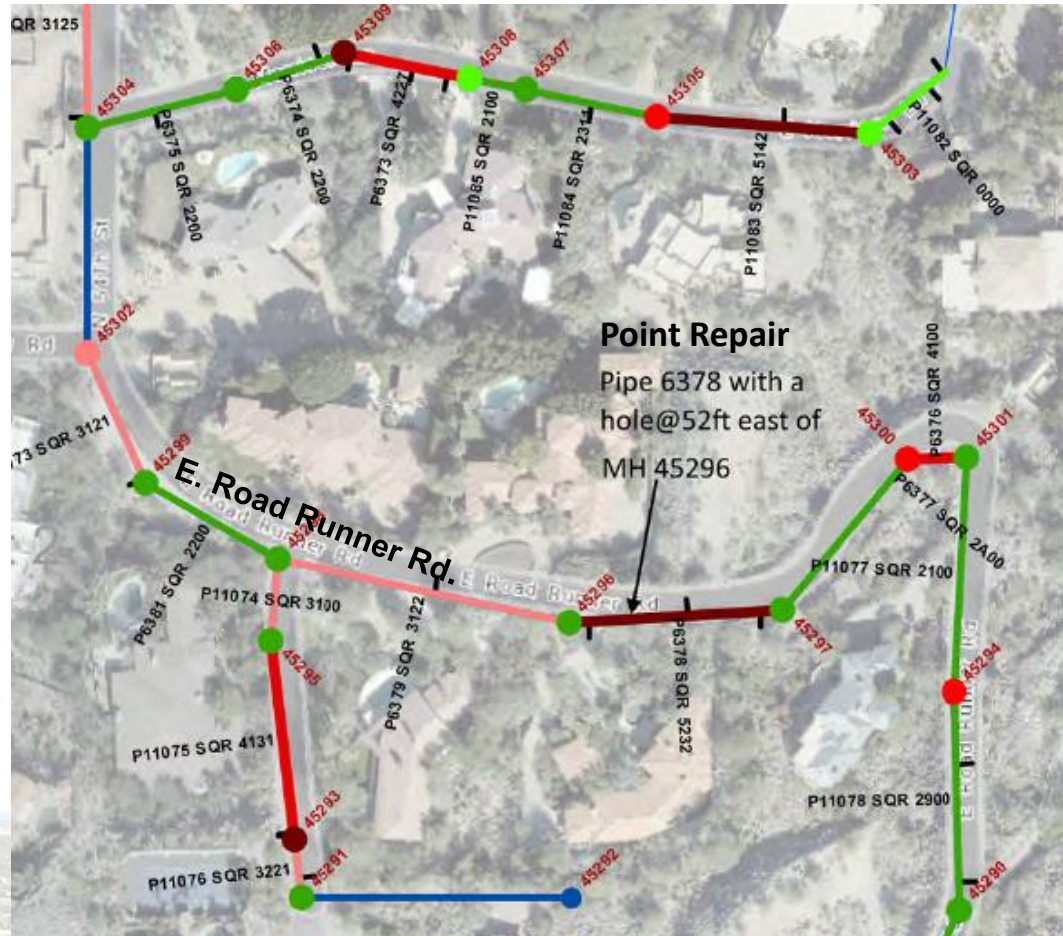
PROJECT LOCATION #2



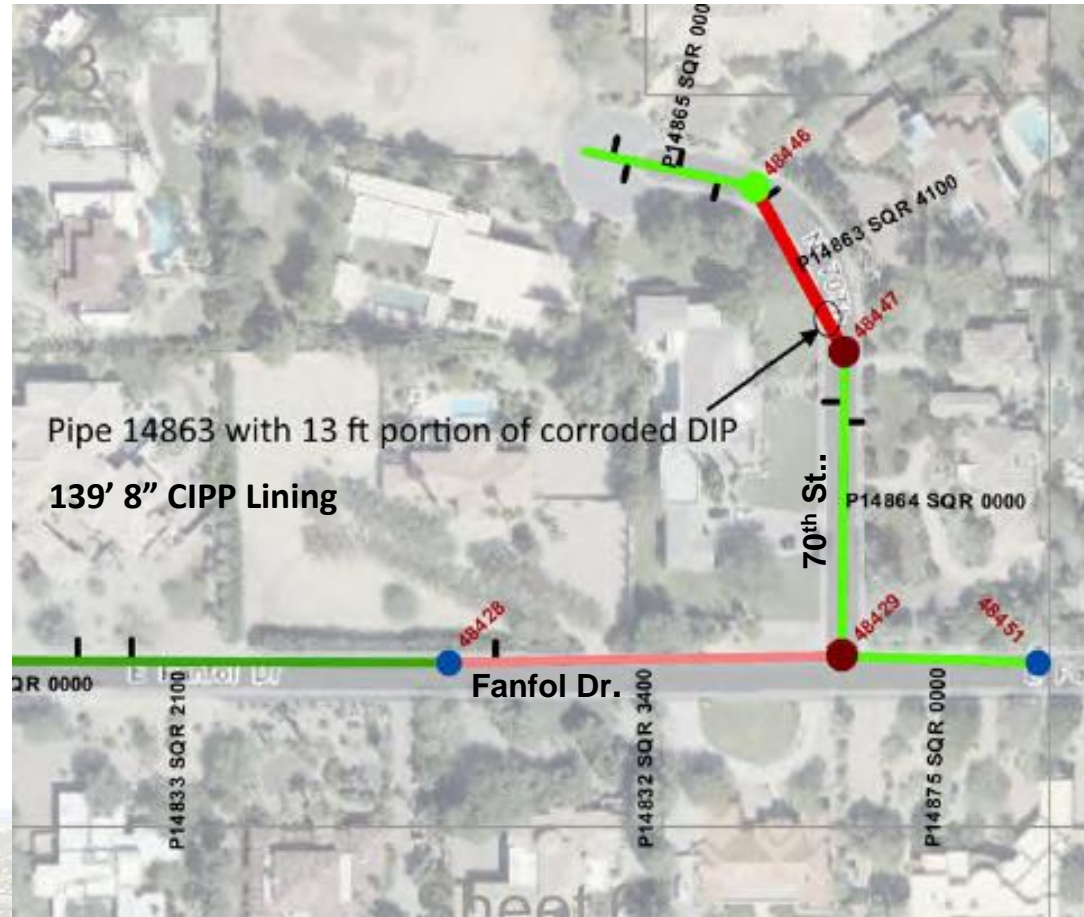
PROJECT LOCATION #3



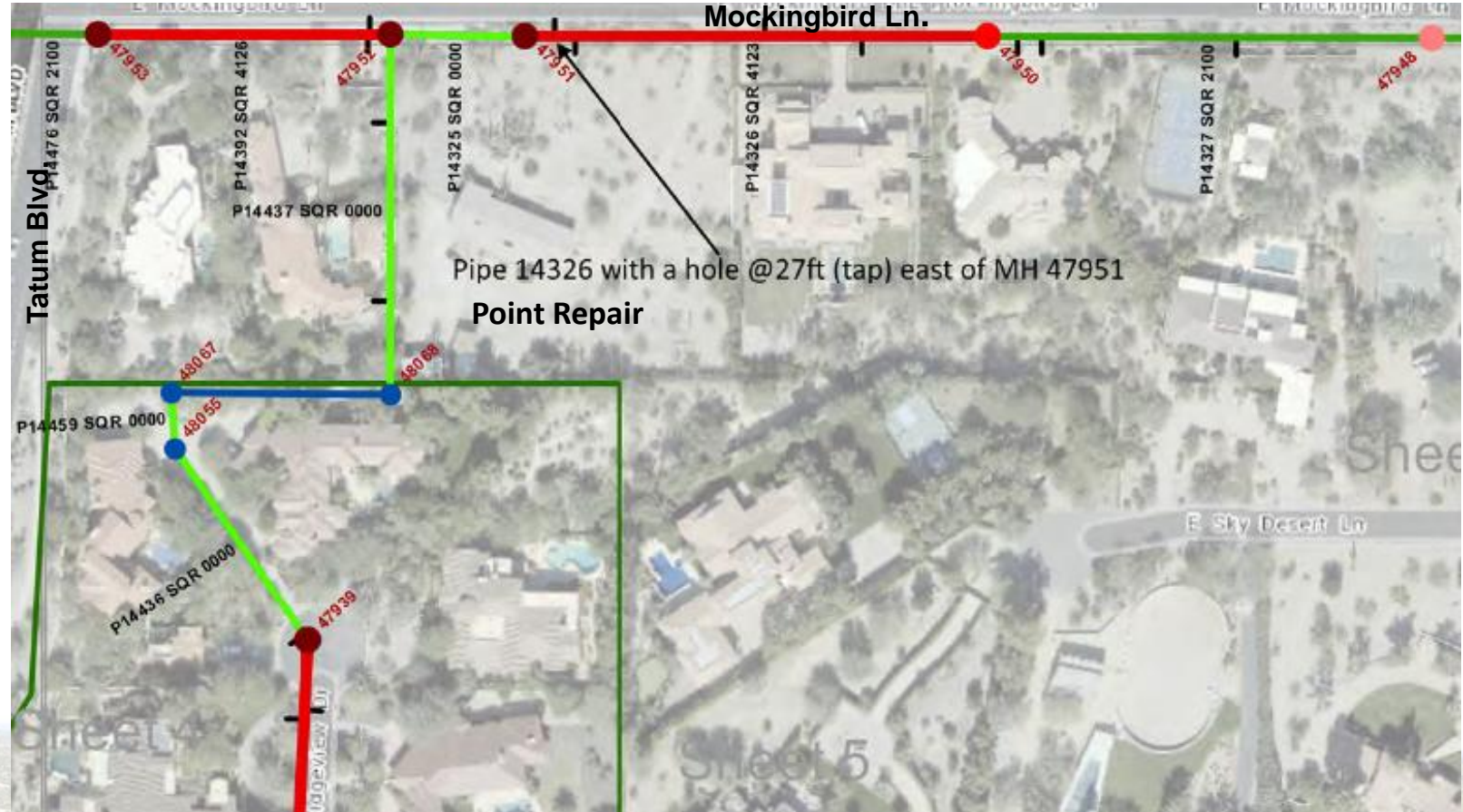
PROJECT LOCATION #4



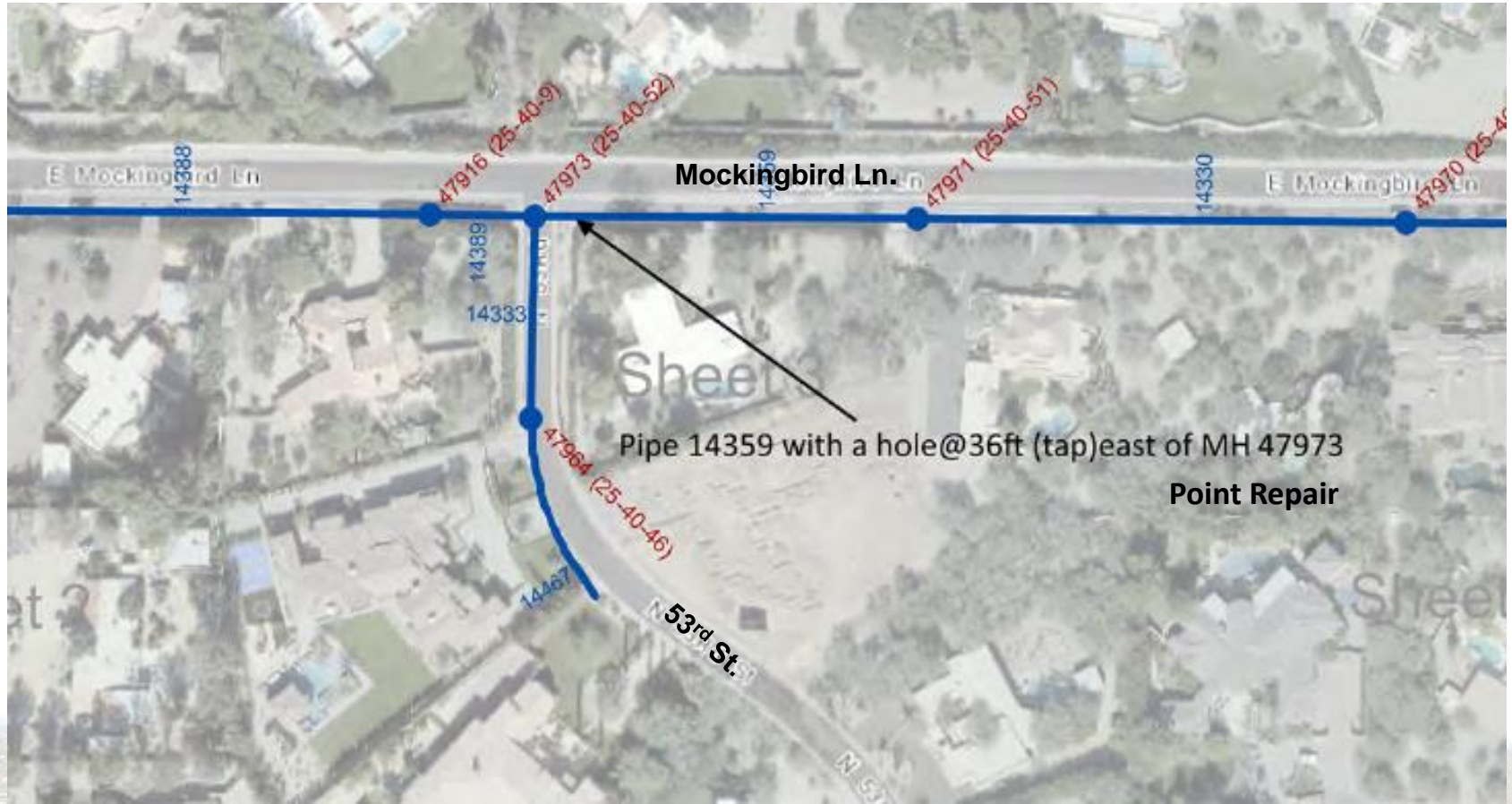
PROJECT LOCATION #5



PROJECT LOCATION #6



PROJECT LOCATION #7



SEWER REPAIR CONSTRUCTION CONTRACT

The proposed construction contract in the amount of \$303,168.56 with Achen-Gardner Construction and design and construction administration contract in the amount of \$23,017.79 with Project Engineering Consultants are within the Town's proposed FY21-22 sanitary sewer repair budget of \$455,000

Achen-Gardner Construction has successfully completed similar sewer lining and point repair projects for the Town in FY18-19, FY19-20 and FY20-21.

Project Engineering Consultants provided similar design and construction management services for the prior sewer lining and point repair projects.

Staff recommends approval of the proposed contracts as well as waiving the 14-day wait period to execute the contract.

SANITARY SEWER REPAIRS

QUESTIONS?

