



OPTIONS FOR RELIEF FROM ONGOING SEWER ISSUES TO RESIDENTS ON BEMIS AVENUE

OPTION 1. Add SCADA capabilities to control flow along Bemis Avenue

- Purpose: Will provide pre-programmed control of flow levels along Bemis Avenue
- Work involved:
 - Add Mission SCADA unit with level transducer to manhole north of Bemis to measure flow
 - Add Mission SCADA units to lift stations that flow to Bemis Avenue
 - Add Variable Frequency Drives (VFD) and PLC to one (1) pump at each lift station that flows through Bemis Avenue
- Cost: Approximate cost \$75,000

OPTION 2: Install grinder pump systems at the critical residences along Bemis Avenue

- Purpose: Will allow most critical residences (6) to use wastewater facilities during rainfall events when gravity main along Bemis Avenue is flowing full
- Work involved:
 - Install grinder pump systems to pump wastewater from the residences to the gravity main along Bemis
- Cons: Residents cannot use grinder pumps during power outage; residents will have to maintain grinder pump systems and pay power costs to run the system
- Cost: Approximate cost \$30,000 (\$5,000 per system)

OPTION 3: Replace Gravity Main along Bemis Avenue and Convert Existing 21" to Force Main

- Purpose: Will take residents off of existing gravity main along Bemis Avenue so that they can use their wastewater facilities during rainfall events and the main is flowing full and eliminate overflows from the existing 21" gravity main
- Work involved:
 - Install a new 8" gravity main along Bemis Avenue to the Stonegate Subdivision lift station; Convert existing 21" gravity main along Bemis Avenue to a true force main
- Cons: Does not address actual cause of the problems along Bemis Avenue; could move odor issue to manhole north of Bemis along Old Spanish Trail; could also move overflows from Bemis Avenue to another part of the system; requires a permanent utility easement to reach the Stonegate Subdivision LS (cost not included in estimate)
- Cost: Approximate cost \$500,000