

Drainage District:

#123

Repair Summary:

- Landowner reported tile sinkhole/blowout and 2 depressions on the Main tile located in the NW¼ of Section 34, Township 88 North, Range 22 West.
- Visually inspected area and found two depressions with a planter stuck in one at 350'± east of E Avenue. Also found collapsed 36" VCP Main tile at 840'± east of E Avenue. The District Trustees authorized CCTV inspection of existing main tile to determine its overall condition.
- Using the location of the 36" VCP Main tile collapse (700'± downstream of downstream end of 2015 replacement) as the insertion point for CCTV camera.
 - Televised downstream and key issues found (all defects are tabulated in attached sheet):
 - 3 locations with partial or imminent collapse for a total length of 80'±
 - 22 joint offsets
 - Televised upstream and key issues found (all defects are tabulated in attached sheet):
 - 1 location with partial or imminent collapse for a total length of 40'±
 - 7 joint offsets
- Temporarily repaired insertion point with 30" dual wall HPDE tile and fabric wrapped joints.

Contractor Time and Materials (spent while CGA was on-site):

See attached Tabulated Contractor Time and Materials Sheet.

Additional Actions Recommended:

The Main VCP tile is cracked for much of the extent of the CCTV inspection. It is our opinion that most of the cracked tile is not deformed enough to indicate imminent failure. However, there are 4 locations that pipe failure appears to be imminent and the temporary repair at the insertion point needs replaced (5 locations for 140'± total). Based on this, it is our recommendation that spot repairs on the Main tile be performed with Class IV or V RCP where collapse is imminent or has occurred. It is our opinion that the total construction cost of these repairs would be \$20,000 to \$25,000 (assuming that no additional tile will need replaced after the tile is uncovered). This cost is low enough that neither a hearing nor an engineer's report would be required for said repairs.

