

Appendix D

Drainage and Sidewalk Field Assessment

Chenoweth Lane Corridor Study
Jefferson County, KY
Item No. 5-531.00
Existing Drainage Conditions

The following is an existing drainage inventory of the Chenoweth Lane corridor. The overview is based on a site review taken on 9-25-15 as well as review of storm sewer plans obtained from the City of St. Matthews:

West Side of Chenoweth Lane

1. From just north of Druid Hills Road (high point) to the US 42 intersection, no drainage swale or ditch exists along the roadway. Runoff from the adjacent properties appears to drain to the roadway and flow along the edge of pavement toward US 42.
2. No defined ditches or swales are located between just north of Druid Hills Road (high point) and Napanee Road (high point). Roadside catch basins exist in the sag area between Druid Hills Road and Elfin Avenue. These structures drain northward toward US 42 with a 12" PVC pipe, but it was not determined where they connect.
3. From just north of Ormond Road to just north of Washington Square, a defined roadside ditch with heavily silted entrance and roadway pipes are present. The pipes range in size from 12" to 18" and some of the structures have headwalls.
4. An existing storm sewer trunk line begins just north of Washington Square and extends southward to Staebler Avenue. The trunk line ranges from 24" to 54". Flow along this portion of Chenoweth Lane is drained by yard basins and drop box inlets. The trunk line extends eastward along Staebler Avenue toward an existing retention basin at Kennison Avenue and St. Matthews Avenue.

East Side of Chenoweth Lane

1. Flow from the small drainage swale between Olympic Avenue and the Chenoweth Lane/US 42 intersection is intercepted into a drop box inlet behind the curb line.
2. No defined ditches or swales are between Olympic Avenue to Napanee Road (high point). A roadside catch basin exists in the sag area between Druid Hills Road and Elfin Road. This structure connects to a catch basin on the west side of Chenoweth Lane.
3. A shallow swale exists from Napanee Road to a 12" pipe under Leland Road. A number of power poles are located in the ditch line.
4. Between Leland Road and Brookfield Avenue a shallow swale with silted driveway pipes, power poles, and guy wires are in the ditch line. No apparent pipe is under Brookfield Avenue.
5. From Brookfield Avenue to Elmwood Avenue a shallow swale drains to a silted pipe under Elmwood Avenue. Note: From Elmwood Avenue to Kennison Avenue the existing sidewalk has been constructed closer to the existing edge of pavement. The existing ditch slopes are steep near the Massie Avenue intersection.
6. From Elmwood Avenue to just south of the St. Matthews Feed and Seed parking lot a small drainage swale is drained by a 12" pipe under the parking lot that connects to a manhole near the Chenoweth Lane/Gillman Avenue intersection. The manhole is connected to the trunk line on the west side of Chenoweth Lane.

7. From Gillman Avenue to Massie Avenue a drainage swale drains to an existing 18" pipe under Massie Avenue. The 18" pipe connects to the trunk line on the west side of Chenoweth Lane.
8. Between Massie Avenue and Kennison Avenue, a few 12" driveway pipes and a few catch basins drain this area. The catch basin near 151 Chenoweth Lane connects to the trunk line on the west side of Chenoweth Lane.
9. Between Kennison Avenue and Staebler Avenue, the existing sidewalk is adjacent to the roadway. Runoff from the adjacent properties appears to drain to the roadway and flows along the existing edge of pavement.

In summary, many or most of the entrance and roadway pipes along Chenoweth Lane are silted. A determination has not been made as to whether these structures were sized correctly to meet the latest design standards. Many power poles and guy wires were placed in the center of the ditch line on the east side of Chenoweth Lane. Portions of the corridor do not have defined ditches or swales. Areas along the east side of Chenoweth Lane, the size and depth of the ditches are restricted by the proximity of the existing sidewalk. The existing storm sewer trunk line on the west side (from Washington Square to Staebler Avenue) provides a potential outfall if Chenoweth Lane is constructed curb and gutter. In addition, curb and gutter section has the potential to eliminate the existing swales and insure the proper pipe size for conveyance of runoff within the corridor.

Chenoweth Lane
Field Assessment Points
25 September 2015



Name	Descript
POI 1	Chenoweth and Westport intersection
POI 2	Chenoweth and Brownsboro intersection; Crosswalks exist on all legs, thermo stripe with decorative patterned/colored crosswalks, with color fading. Compliant accessible ramps in all directions, with ped signals and actuated button controllers. Bad utilit
POI 3	Water meters and steep shoulder conditions with large trees near R/w.
POI 4	End of curb and gutter, no roadside ditch to south.
POI 5	Loop driveway in R/w
POI 6	Sanitary manhole in shoulder.
POI 7	Large tree in shoulder, hackberry.
POI 8	Druid Hills Road, no sidewalk improvements.
POI 9	24" square drainage inlet, with 12" PVC outlet toward south.
POI 10	24" square yard drainage inlet, 12" pipe continues south.
POI 11	18" dia. Yard inlet, outlet condition undetermined. Still no defined roadside ditch.
POI 12	Napanee Road, 4' sidewalk on south side, terminates in dirt path at CL.
POI 13	Shallow roadside ditch begins north of Ormund Road.
POI 14	Ormund Road, no sidewalks. Corner drainage basins in mixed condition, north side covered/obscured; south 15" pipe heavily silted; west yard inlet shallow make-shift 12" pipe inlet.
POI 15	Roadside ditch continues south. Hydrant along R/w fence.
POI 16	12-15" rcp driveway pipe heavily silted with creek stone headwalls.
POI 17	18" rcp driveway pipe half silted with creek stone headwalls.
POI 18	18" cmp driveway pipe half silted with concrete headwalls.
POI 19	Leland Road, no sidewalks. 12" clay/12x15 trench box crossing with metal covers.
POI 20	18" rcp driveway pipe with creek stone headwalls.
POI 21	18" rcp driveway pipe with concrete headwalls.
POI 22	Abandon driveway entrance, 15" cmp heavily silted
POI 23	Washington Square, no sidewalks. 18" rcp cross drain with combo Dropbox/headwall inlet on north side. Pipe continues south beyond intersection.
POI 24	Dbl grate yard inlet, 18x36" grate over 48" manhole, with 30" pipe continuing south.
POI 25	Single grate yard inlet, 12x15" grate over small box, with 15" rcp outlet to east.
POI 26	Single grate yard inlet, 12x15" grate over small box, with 15" rcp outlet to east.
POI 27	Elmwood Avenue, no sidewalks. Custom drainage inlet on south side
POI 28	Single grate yard inlet, 12x15" grate over small box, with 15" rcp outlet to east.
POI 29	Single grate yard inlet, 12x15" grate over small box, with 15" rcp outlet to east.
POI 30	Single grate yard inlet, 12x15" grate over small box, with 15" rcp outlet to east.
POI 31	Chenoweth Court, no street sidewalks, only interior connects from street. Standard curb inlets on either side at back of radius. 12" rcp to east.
POI 32	Single grate yard inlet, 12x15" grate over small box, with 15" rcp outlet to east.
POI 33	36" dia grate over manhole, pipes undetermined.
POI 34	Massie Avenue, no sidewalks.
POI 35	4' Sidewalk along Chenoweth begins and continues south.
POI 36	36" dia grate over manhole, pipes undetermined.
POI 37	36" dia grate over manhole, pipes undetermined.
POI 38	36" dia grate over manhole, pipes undetermined.
POI 39	36" dia grate over manhole, in paved shoulder, pipes undetermined.
POI 40	4' sidewalk continues in generally good condition, but with areas of broken joints, settling, and non compliant slopes resulting.
POI 41	36" dia grate over manhole, in paved shoulder, pipes undetermined.
POI 42	36" dia grate over manhole, in paved shoulder, pipes undetermined.
POI 43	Staebler Avenue, no sidewalks, accessible ramps for walk along Chenoweth recently installed.
POI 44	36" square grate over manhole, at edge of third lane, pipes undetermined.
POI 45	Three lane section begins.
POI 46	36" square grate over manhole, at edge of third lane, in paved shoulder, next to curb inlet structure, pipes undetermined.
POI 47	Accessible ramps at Chenoweth Square entrance. 5' sidewalk continues north.
POI 48	6' total sidewalk with curb and decorative paver strip along Heine Brothers frontage.
POI 49	Staebler Avenue, 4' sidewalk along north side, 4' sidewalk continues north from from north accessible ramp. 24" square grate over manhole, within westbound lane, pipes undetermined.
POI 50	Curb inlet.
POI 51	4' sidewalk flush with paved shoulder.
POI 52	4' sidewalk flush with shallow concrete gutter.
POI 53	Kennison Avenue, sidewalks on both north and south sides; 4' south side intersects Chenoweth sidewalk with two steps (inaccessible) whereas north side is new 5' sidewalk intersecting in accessible transition to Chenoweth walk.
POI 54	Area of low broken sidewalk, asphalt overlay and broken settled areas.
POI 55	Silted abandon driveway pipe
POI 56	Silted 12" driveway pipe.
POI 57	12" square inlet.
POI 58	12" rcp driveway pipe.
POI 59	12" square inlet over manhole.
POI 60	12" silted driveway pipe. 4' Sidewalk in mixed quality but overall average condition, some areas of asphalt drive overlay and older sections of exposed aggregate.

Name	Descript
POI 61	Begin drainage ditch continuing north.
POI 62	Massie Avenue, 4' sidewalk on north side only, new accessible ramps along Chenoweth. 18" cross drain with broken concrete head walls.
POI 63	12" driveway entrance pipe no headwall.
POI 64	Gilman Avenue, 4' sidewalks on both sides between stone column signature pilasters. 15-18" cmp roadway cross drain.
POI 65	No walk across open parking lot for St Matthews Feed and Seed.
POI 66	12" yard inlet with 12" PVC to north. 12" cmp across parking lot frontage.
POI 67	12" cmp driveway pipe, silted.
POI 68	Elmwood Avenue, 4' sidewalks both sides, new accessible ramps along Chenoweth sidewalk. Undetermined roadway cross pipe.
POI 69	Brookfield Avenue, no sidewalks. New accessible ramps along Chenoweth sidewalk. No visible cross pipe.
POI 70	Undetermined driveway pipes, cmp silted.
POI 71	Leland Road, no sidewalks, new accessible ramps along Chenoweth. 12" rcp roadway cross pipe, with no head walls.
POI 72	Napanee Road, no sidewalks, new accessible ramps along Chenoweth.
POI 73	Elfin Avenue, no sidewalks, new accessible ramps along Chenoweth. 12" cmp roadway cross pipe. Sidewalks in much better condition from Napanee north.
POI 74	36" square drainage inlet, 8" and 24" pipes from north, 24" from west.
POI 75	8" clay driveway pipe with concrete headwall.
POI 76	Druid Hills Road, no sidewalks, new accessible ramps along Chenoweth.
POI 77	Olympic Avenue, no sidewalks, new accessible ramps along Chenoweth.
POI 78	8" correlated/PVC driveway pipe.
POI 79	8" cast iron driveway pipe across two driveways.