



PHOTO 1: VIEW TO NORTHEAST AT FORMER RAILROAD BED THAT SEGMENTS THE WETLAND AREA.



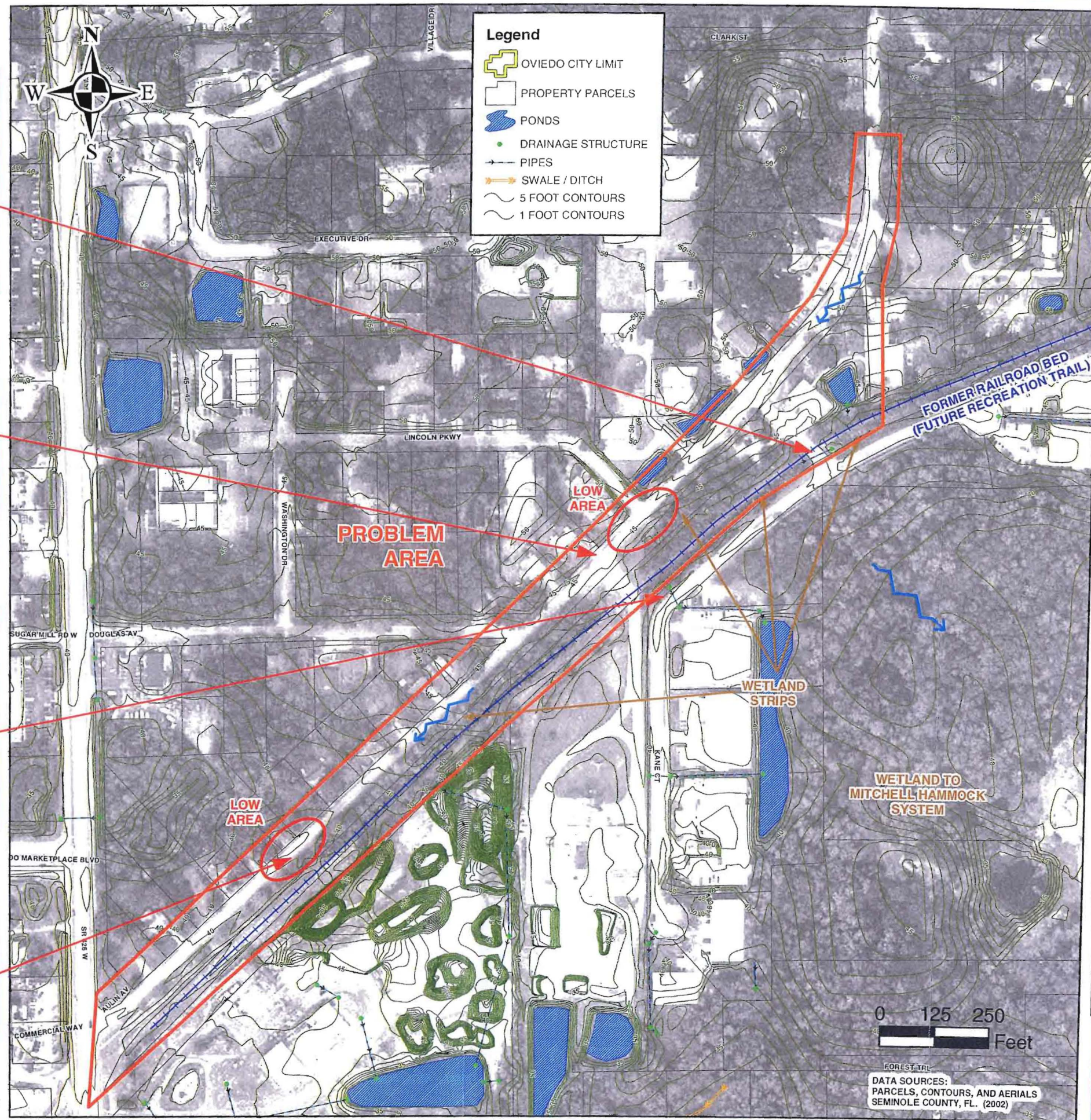
PHOTO 2: VIEW TO SOUTHEAST OF WETLAND AREA BETWEEN AULIN AVENUE AND FORMER RAILROAD CORRIDOR.



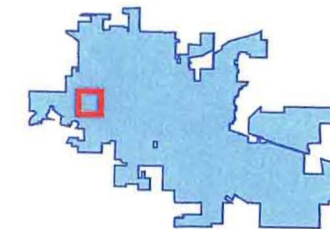
PHOTO 3: VIEW OF SEEPAGE ALONG CURBLANE ALONG KANE COURT NEAR WETLAND.



PHOTO 4: VIEW TO SOUTHEAST AT WETLAND AREA AT LOW SPOT ON AULIN AVENUE - WATER LEVEL ~1-2 FEET BELOW ROAD.



PROBLEM AREA LOCATION



CITY OF OVIEDO

PROBLEM DESCRIPTION

Aulin Avenue has runoff accumulating on the side of the roadway with no defined conveyance system. The resulting effect is localized roadway flooding, standing water, and shoulder & pavement deterioration.

Sediments eroded from the roadside collect in the roadway or are transported to the wetland areas. The wetland areas are bisected by a former railroad bed that inhibits downstream drainage. The wetland areas have no positive discharge other than overtopping onto Aulin Avenue and possibly Kane Court under high stage conditions.

Aulin Avenue has low areas that presently drain to small wetland areas along the southeast side of the road.

There are no defined swales or other drainage infrastructure along Aulin Avenue. Kane Court has some inlets draining to a stormwater pond.

Prolonged wet conditions in the wetland causes seepage over curb along Kane Court, which may accelerate pavement deterioration.

The resulting effect is flooding of roadside areas and the natural low area between Aulin Avenue and Kane Court.

No water quality treatment is being provided for the roadway runoff.

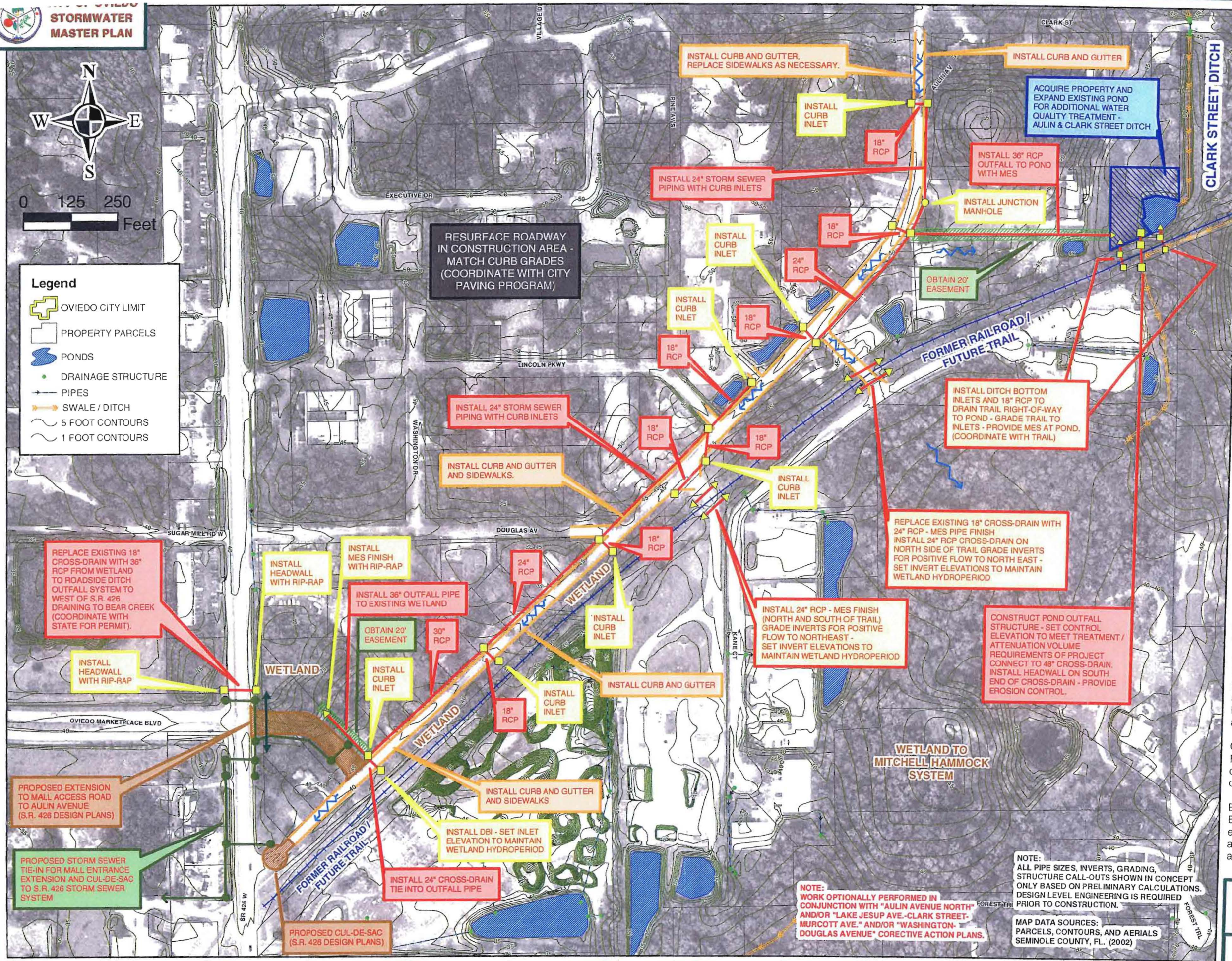
PRIORITY RANK: 4 OUT OF 42

PRIORITIZATION CRITERIA	WEIGHTING	SCORE (Out of 5)
Flood Reduction / Abatement	40%	4
Community Benefit	25%	4
Water Quality Improvement	20%	3
City Maintenance Reduction	10%	3
Aesthetic Improvement	5%	4
WEIGHTED AVERAGE RANK	100%	3.7

**FIGURE 5-3A
AULIN AVENUE SOUTH
PROBLEM AREA**



- Legend**
- OVIEDO CITY LIMIT
 - PROPERTY PARCELS
 - PONDS
 - DRAINAGE STRUCTURE
 - PIPES
 - SWALE / DITCH
 - 5 FOOT CONTOURS
 - 1 FOOT CONTOURS



CORRECTIVE ACTION CONCEPT

Install curb and gutter as shown, and resurface roadway. Replace driveway aprons to match curb grading. Where curbing and sidewalk currently exists, match type and grade where possible, replace as necessary.

Install storm sewer system with curb inlets as shown. Acquire easements for discharge to pond (east) and wetland (west).

Acquire land to expand pond (~0.75 acres total) to provide additional water quality treatment for both Aulin South project and existing flow from Clark Street Ditch. Replace outfall pipe with control structure. Stabilize ditch inflow to pond.

Retrofit existing outfall pipe with headwall at the south end to wetland area - provide erosion control measures.

Retrofit south Trail right-of-way with DBIs draining to pond via 18" RCP and MES. Grade Trail to inlets.

Add cross-drains along Trail at Kane Court and industrial property to promote positive outfall of wetland strips. Work will require coordination with County/ State Trail agencies.

Work to be performed within existing right-of-way (except as noted), temporary construction easements may be necessary in state R-O-W.

Permitting required due to small increase in impervious area and potential increase in peak flow to outfall, and for the pond site.

DESIGN SERVICES

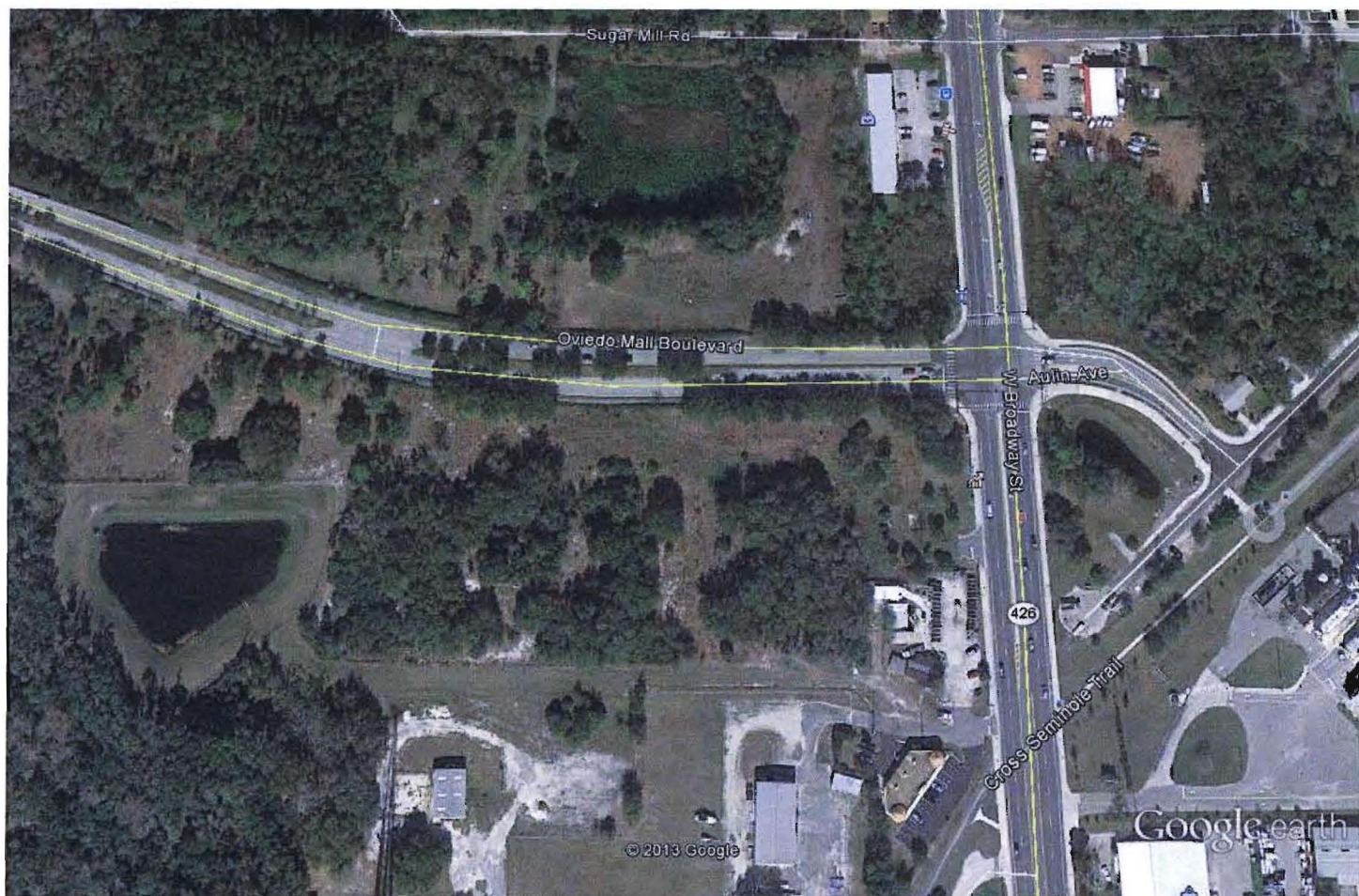
ENGINEERING
Hydraulic design of grading, inlet and piping system, and pond site. Develop construction plans. Prepare permit documents.

SURVEY
Required to verify topo along roadway for grading design and inlet placement and pond for expansion and outfall. Locate utilities. Prepare permanent and temporary construction easements.

GEOTECHNICAL
Required to verify subsurface conditions for pipe support and pond drainage design.

ENVIRONMENTAL
Evaluate wetland hydrology to establish inverts of side drains and control structures and address permit requirements.

**FIGURE 5-3B
AULIN AVENUE SOUTH
CORRECTIVE ACTION PLAN**



Google earth

feet 800
meters 200

