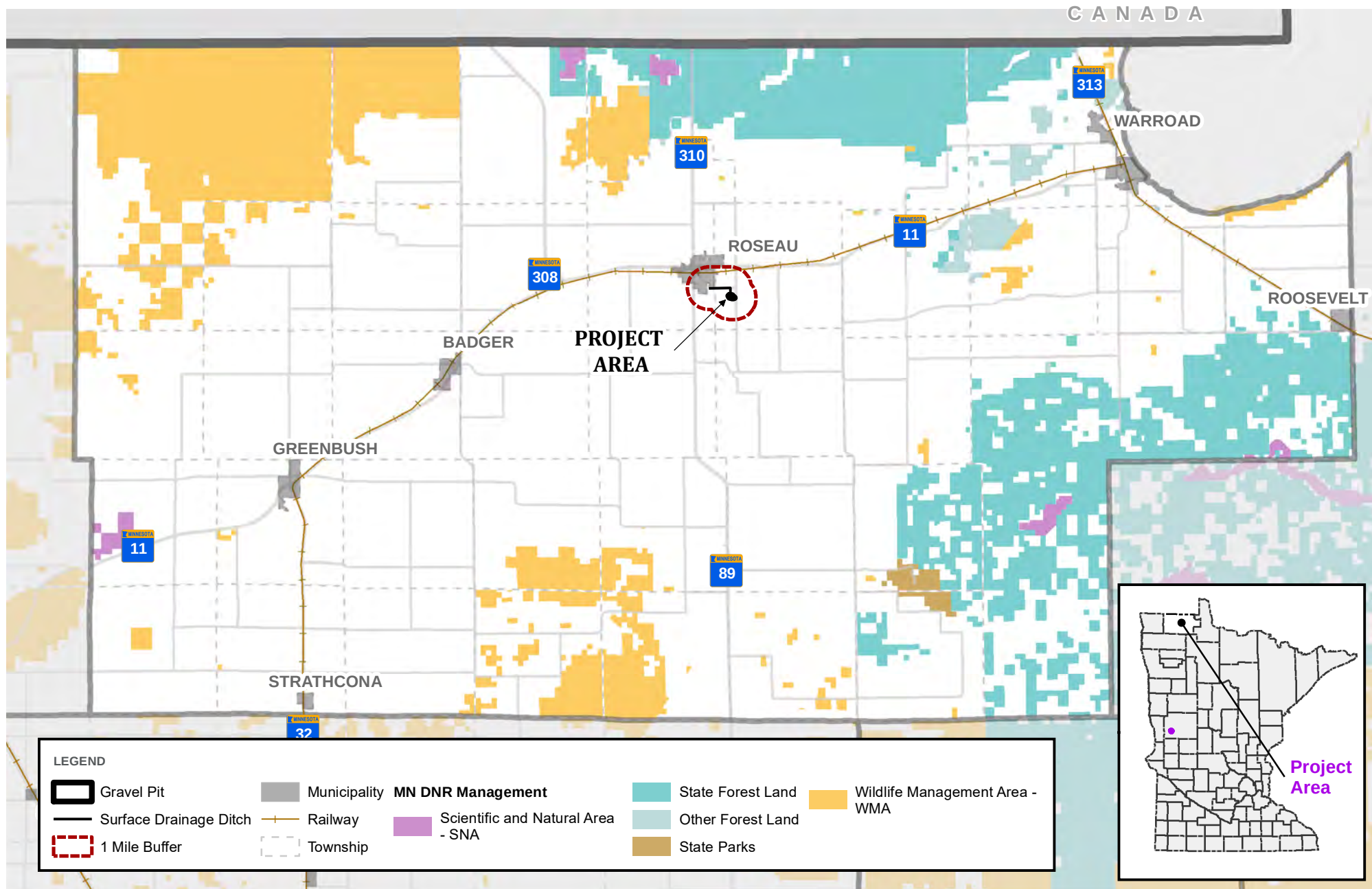


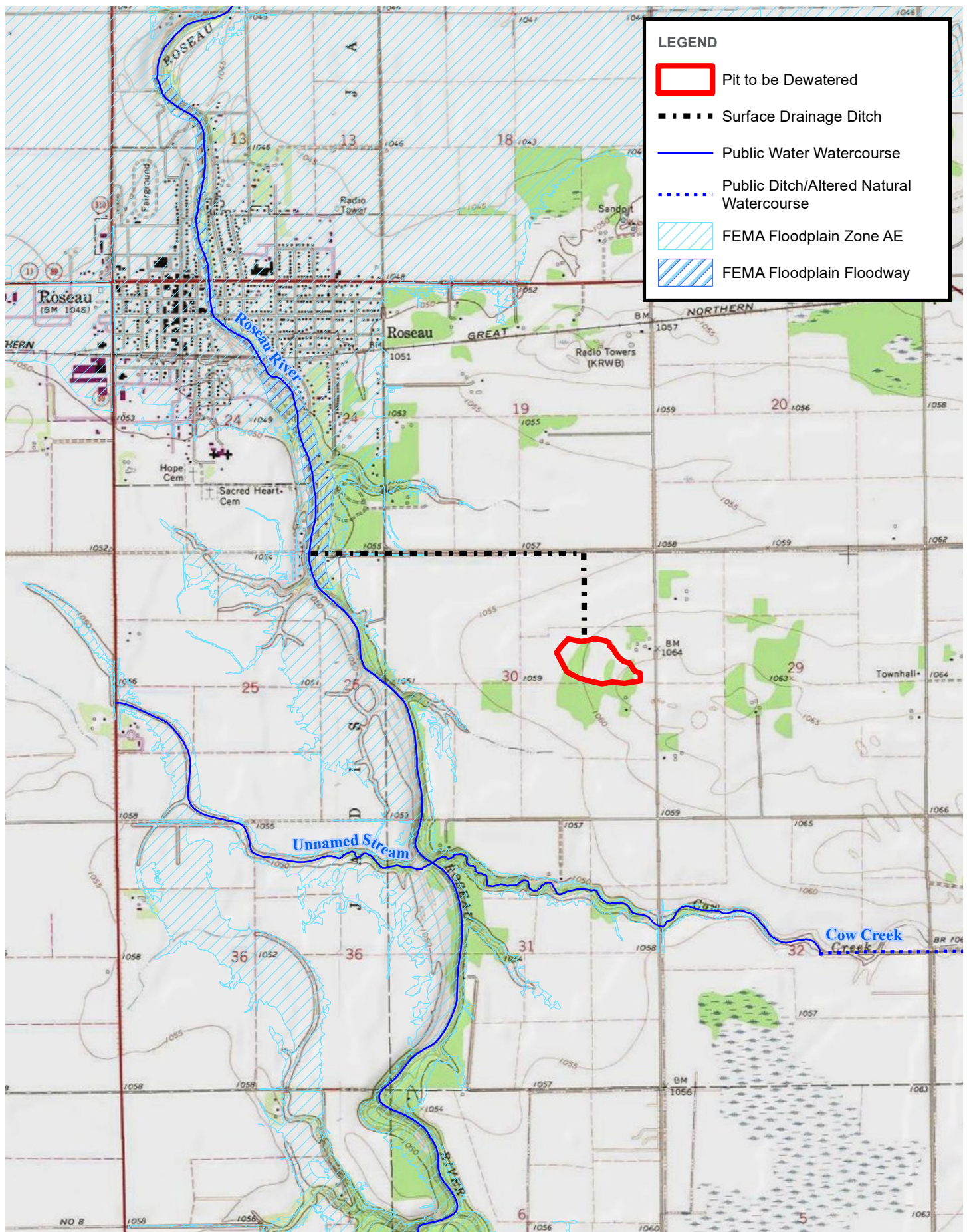
Spruce Valley Sehlstrom Gravel Pit
Dewatering Project
Figures

Figure 1 - Project Location Map



PROJECT LOCATION
ROSEAU COUNTY, MN
(FIGURE 1)

Figure 2 - 24k USGS Topographic Map



LEGEND

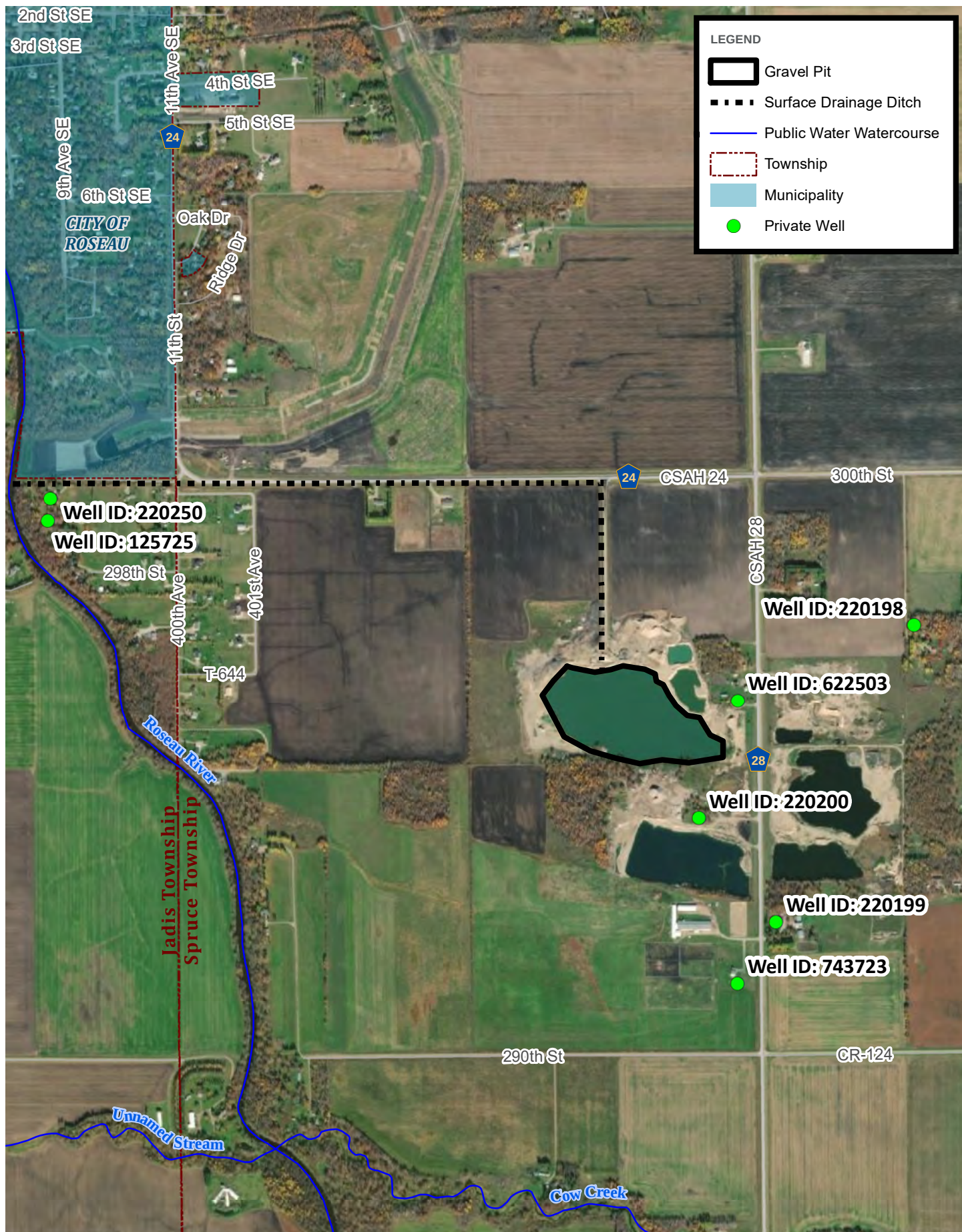
- Pit to be Dewatered
- Surface Drainage Ditch
- Public Water Watercourse
- Public Ditch/Altered Natural Watercourse
- FEMA Floodplain Zone AE
- FEMA Floodplain Floodway



USGS 24K TOPOGRAPHIC

(FIGURE 2)

Figure 3 - Project Detail Map

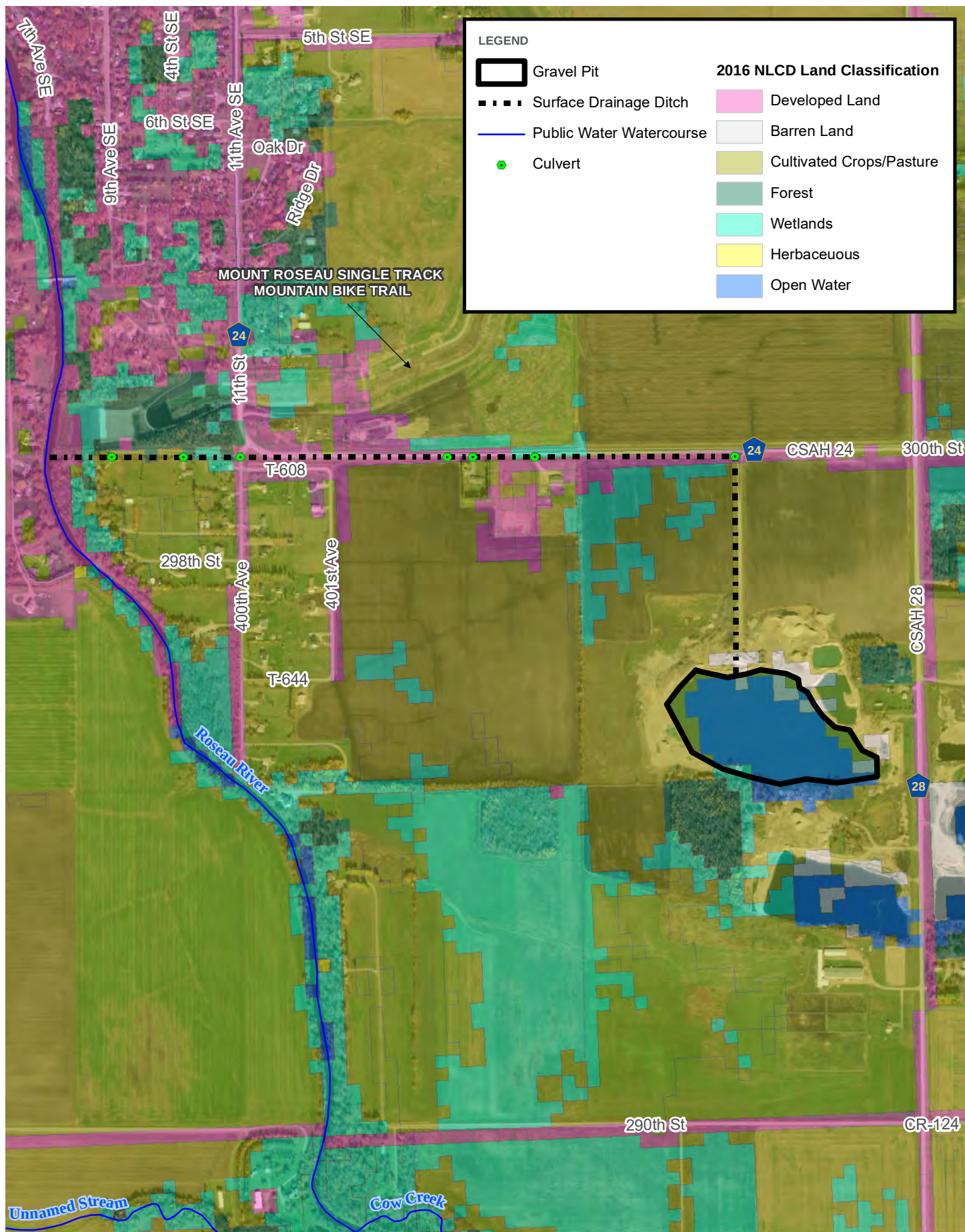


PROJECT DETAIL

(FIGURE 3)

Figure 4 - County Ditch 11 Plan and Profile

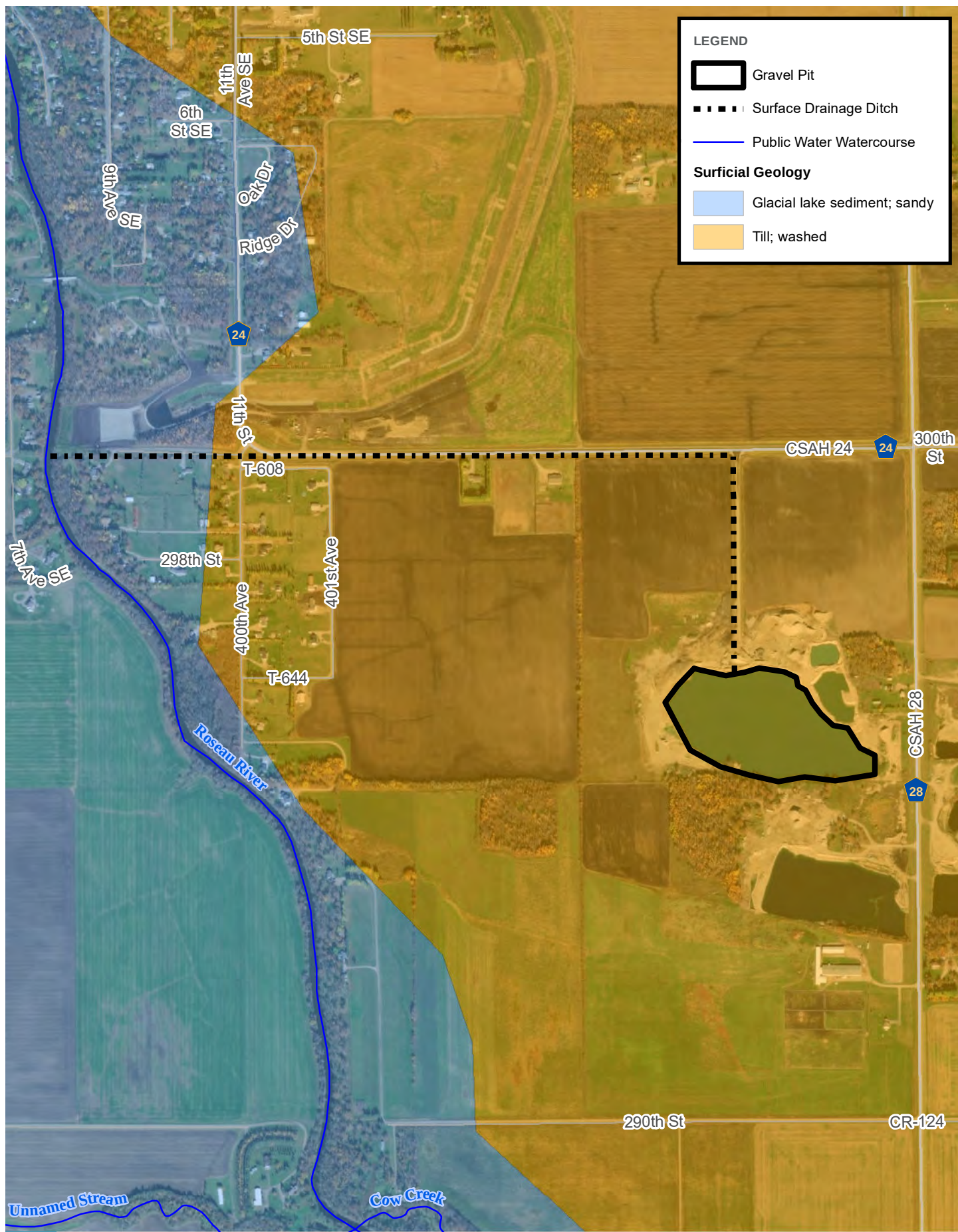
Figure 5 - Land Use and Site Plan Map



LAND USE AND SITE PLAN

(FIGURE 5)

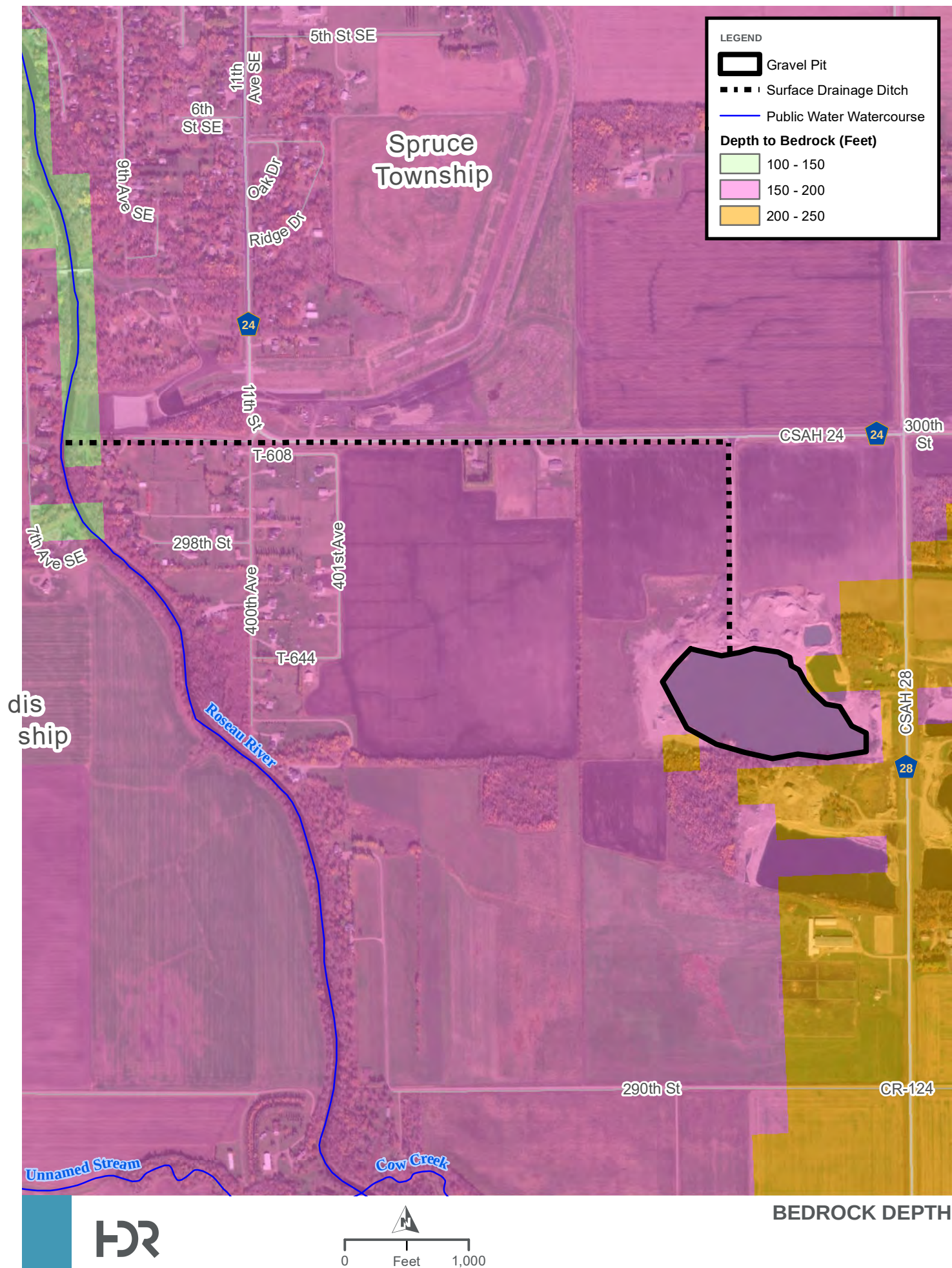
Figure 6 - Surficial Geology Map



SURFICIAL GEOLOGY

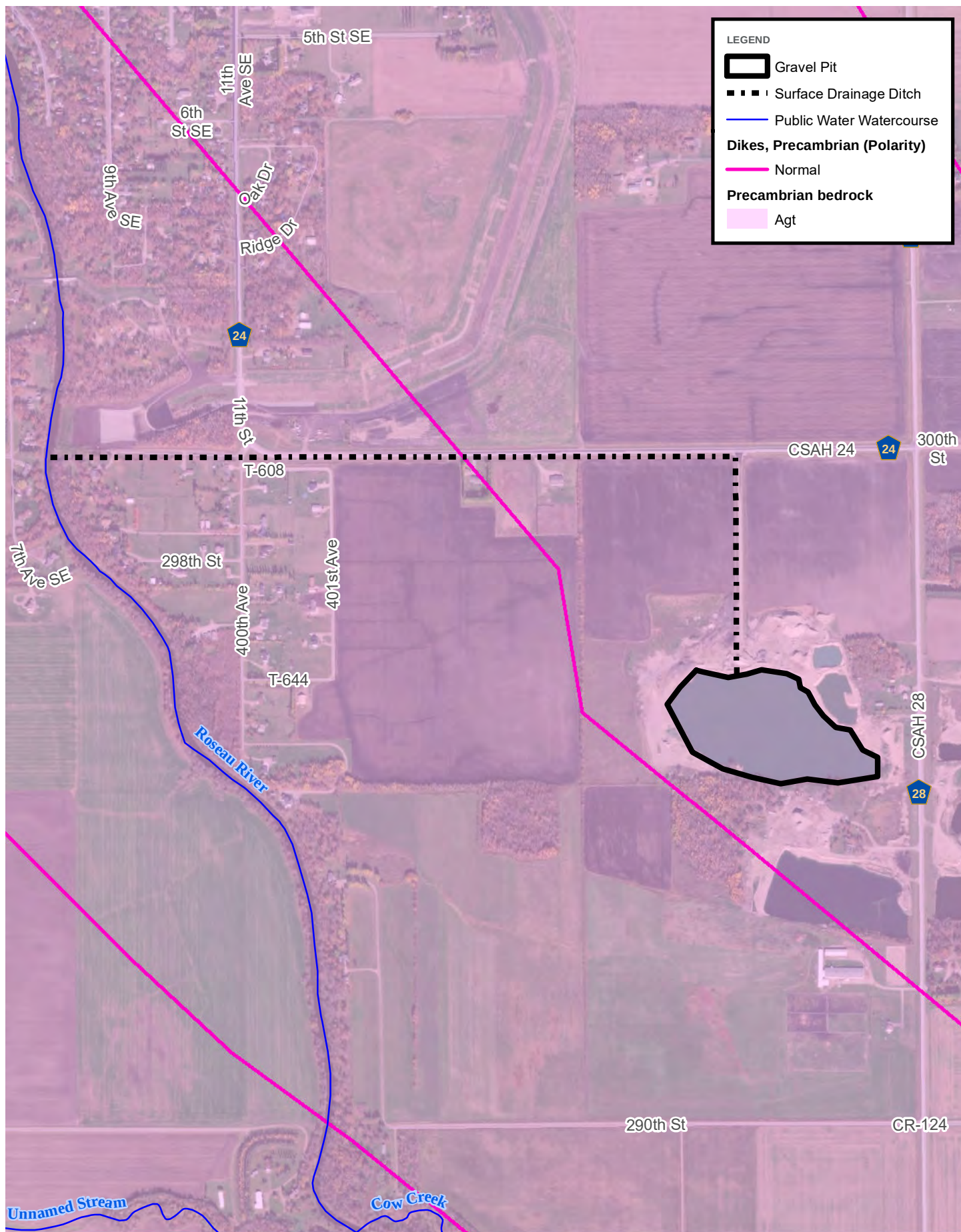
(FIGURE 6)

Figure 7 - Bedrock Depth Map



(FIGURE 7)

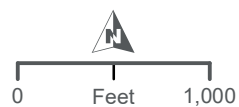
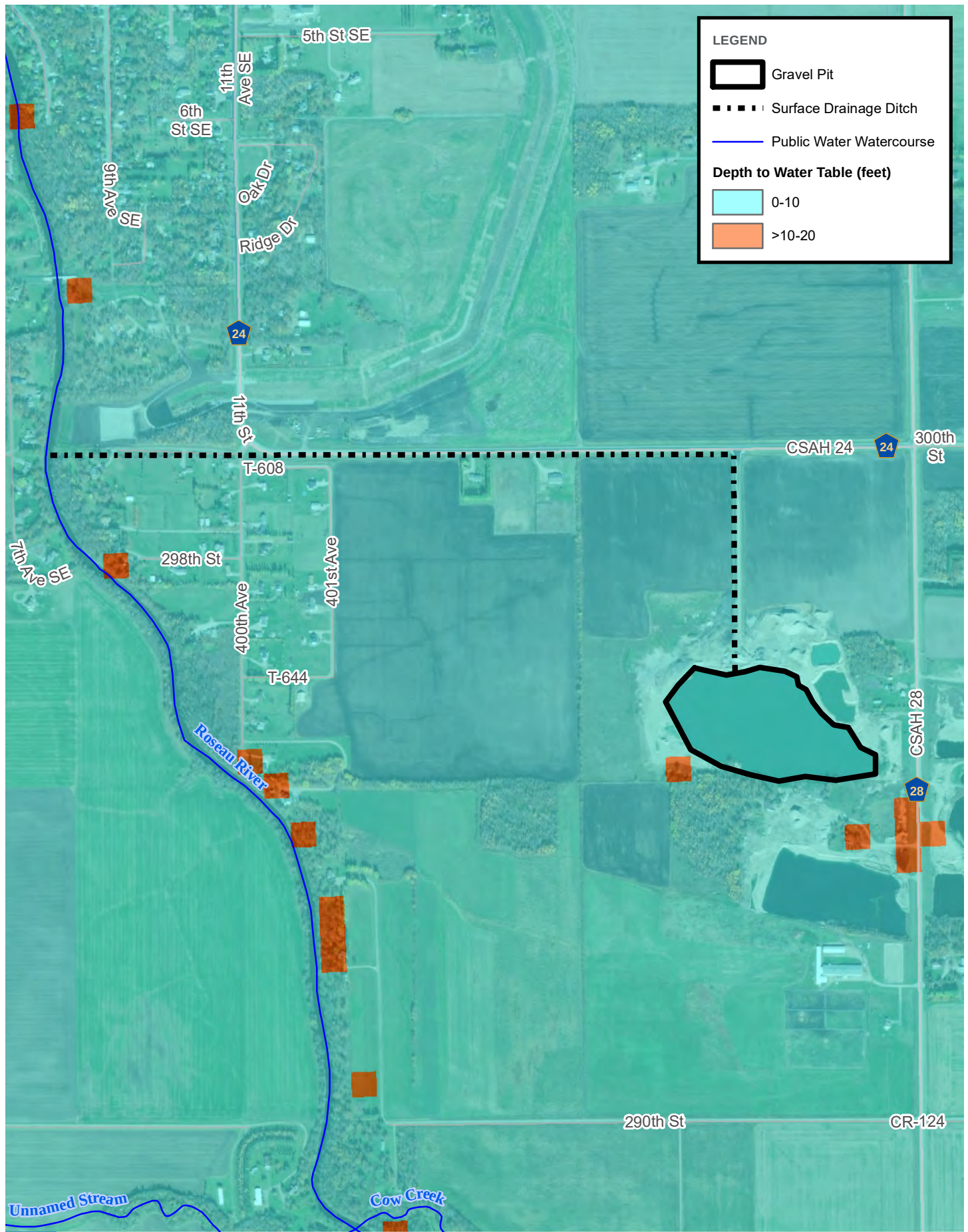
Figure 8 - Bedrock Geology Map



BEDROCK GEOLOGY

(FIGURE 8)

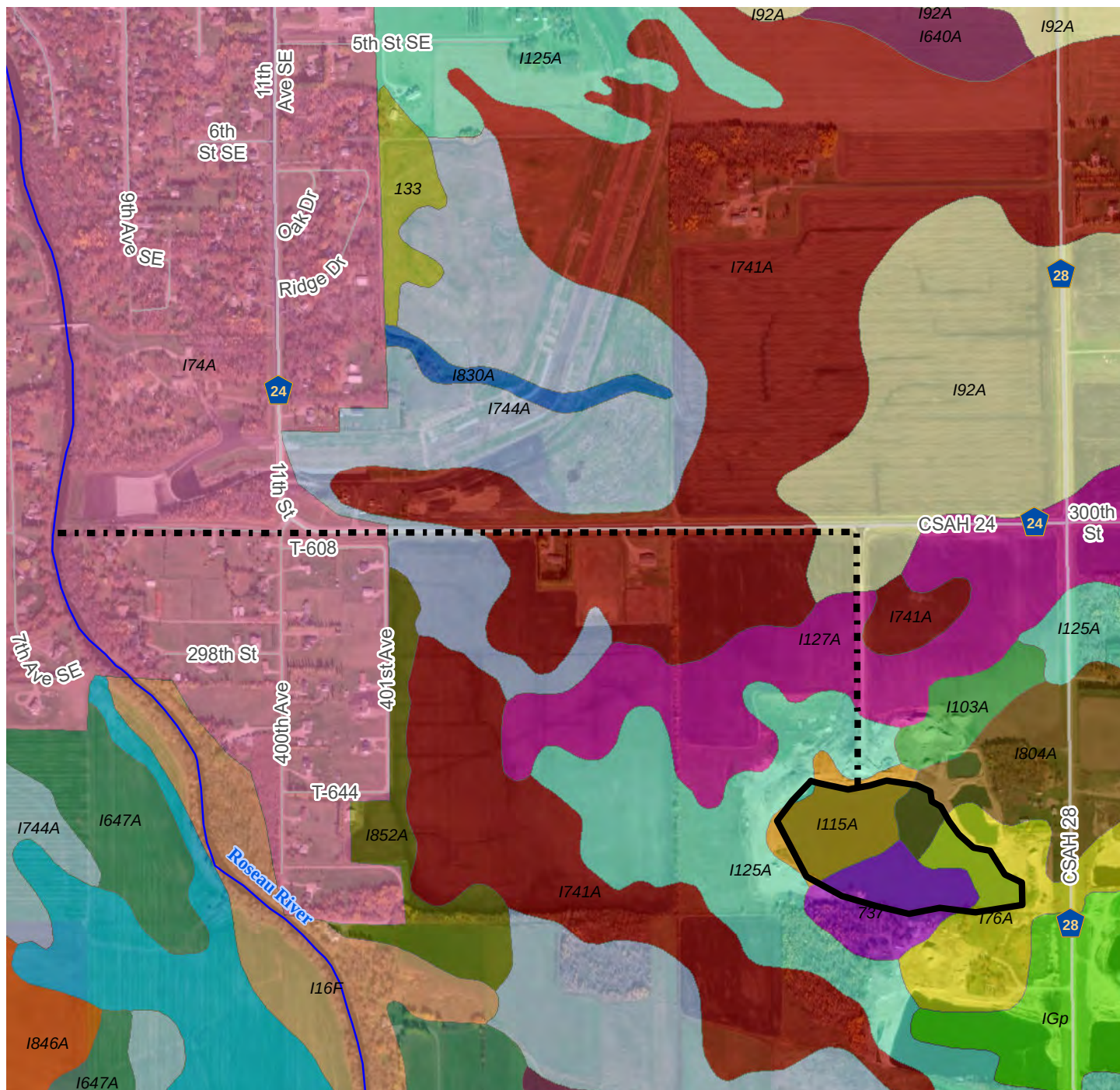
Figure 9 - Depth to Water Table Map



DEPTH TO WATER TABLE

(FIGURE 9)

Figure 10 - SSURGO Soils Map



LEGEND

- Gravel Pit
- Surface Drainage Ditch
- Public Water Watercourse

Mapunit Name

- Augsburg loam, dense till, 0 to 2 percent slopes
- Boash clay loam, dense till, 0 to 2 percent slopes

- Borup silt loam, Aspen Parkland, 0 to 1 percent slopes
- Croke very fine sandy loam, Aspen Parkland, 0 to 2 percent slopes
- Dalbo loam, 0 to 3 percent slopes
- Eckvold loamy fine sand, dense till, 0 to 3 percent slopes

- Fluvaquents, frequently flooded-Hapludolls complex, 0 to 30 percent slopes
- Garnes fine sandy loam, dense till, 0 to 3 percent slopes, very stony
- Grano clay, 0 to 1 percent slopes
- Grano loam, 0 to 1 percent slopes
- Karlstad loamy sand, 0 to 3 percent slopes

- Kratka fine sandy loam, dense till, 0 to 2 percent slopes
- Mahkonce fine sandy loam, 0 to 3 percent slopes
- Mustinka clay loam, 0 to 1 percent slopes
- Percy loam, 0 to 1 percent slopes
- Pits, gravel and sand
- Skagen loam, 0 to 3 percent slopes

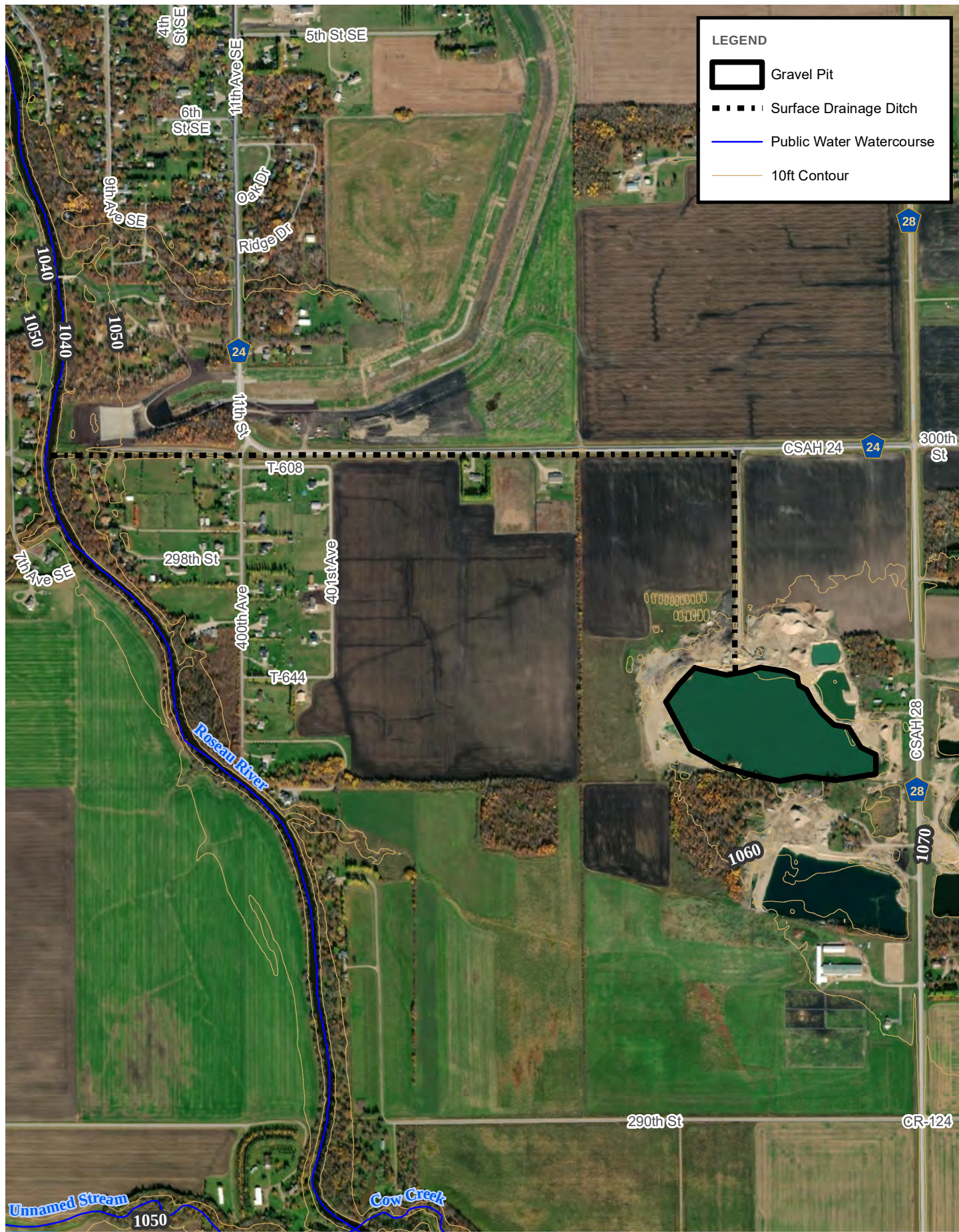
- Urban land-Endoaquents complex, 0 to 3 percent slopes
- Wheatville loam, dense till, 0 to 3 percent slopes
- Woodslake clay, 0 to 1 percent slopes
- Zippel very fine sandy loam, 0 to 2 percent slopes



SSURGO SOILS

(FIGURE 10)

Figure 11 - Elevation Map



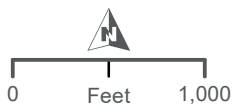
LEGEND

Gravel Pit

Surface Drainage Ditch

Public Water Watercourse

10ft Contour



ELEVATION

(FIGURE 11)

Figure 12 - Natural Resources Map

