Earthwork Modeling Step-by-Step
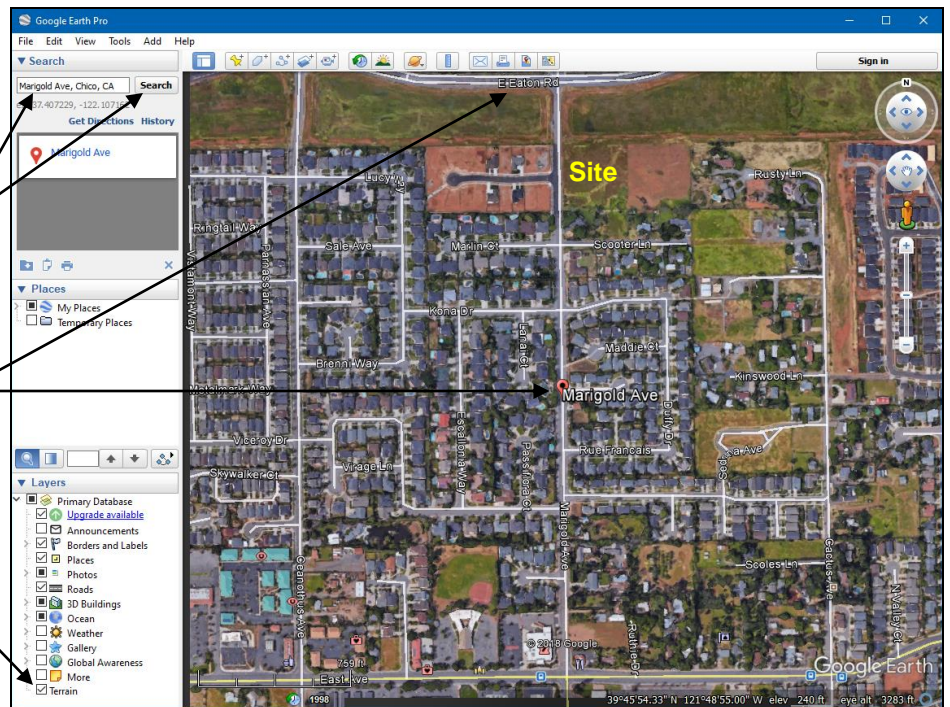# Geo-Reference Job File with Google Earth

Geo-referencing Notes

o Geo-referencing an AGTEK job file is optional but it enables (1) remote site inspection in *Google Earth* (via KMZ export of plan sheets, AGTEK layer data and AGTEK cut-fill maps) and (2) on-site inspection with AGTEK's *SmartPlan* app (see video at *www.agtek.com/video.html?id=418*).

o The geo-referencing function is available in *AGTEK 4D* and *GradeModel 3D* (it was an added-cost option in *SiteModel 3D*).

o Geo-referencing with the steps below requires an internet connection and installation of *Google Earth* on the AGTEK computer (see *www.earthworksoftwareservices.com/ resourcesa.htm#GEPro* for free *Google Earth Pro* download and tutorial links.

o The job file can be geo-referenced at any time after importing and scaling the first PDF plan sheet.

o An example of the PDF geo-referencing procedure and KMZ export is provided in AGTEK's training video at *www.agtek.com/video.html?id=388* (see pages 71 and 305 for links to videos with additional examples and details).

o See pages 75-76 and 305-307 for examples of exporting KMZ data and viewing it in Google Earth.

Site Location Map
(Chico, California)

Step 1: Look at the project's plan sheets to identify the site location (a location map is often provided on the title page). In the *Pine Street* example, a location map is found on the *Existing Conditions* plan (see map above) and we can see that this site is located on Marigold Ave. (just south of Eaton Rd.) in Chico, Calif.

Step 2: Start Google Earth and search for the site. In this example we type "**Marigold Ave, Chico, CA**" in the search field then click the **Search** button. The search gets us very close to the site (the **Placemark** 📍 icon marks Marigold Ave. at center of screen, and Eaton Rd. is at top of screen).

Tip: If **Terrain** in the *Layers* sidebar is checked, elevation at the **Hand** 🖑 cursor position will display at bottom right of screen; however, depending on the site's location, the most recent aerial imagery may not be shown (uncheck **Terrain** to verify—see newer images on next page). *The site images here are from 4/2016 (this page) and 5/17/2018 (pages 70-76).*

Elevation at Hand 🖑 cursor

69