

PROJECT CONTROL

- Everyone on a project should use the same datum.
- Photo control is based on geodetic control.
- Premark status is similar to a strategic point.

PROJECT CONTROL

- Points are measured and adjusted like a network in 3D.
 - BMs included in network
 - Digital levels if needed
- Accuracy varies with requirements
 - for Topo mapping, about .1 ft. XYZ



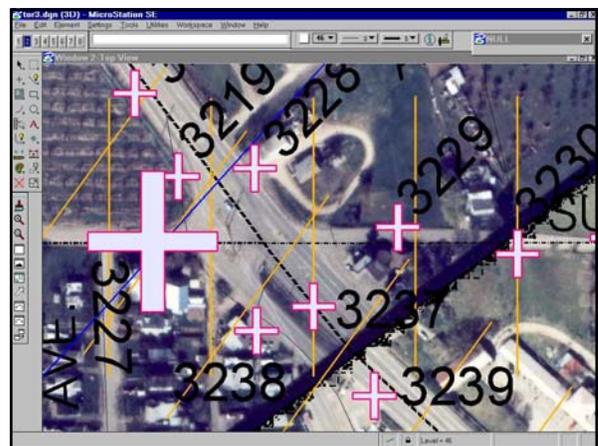
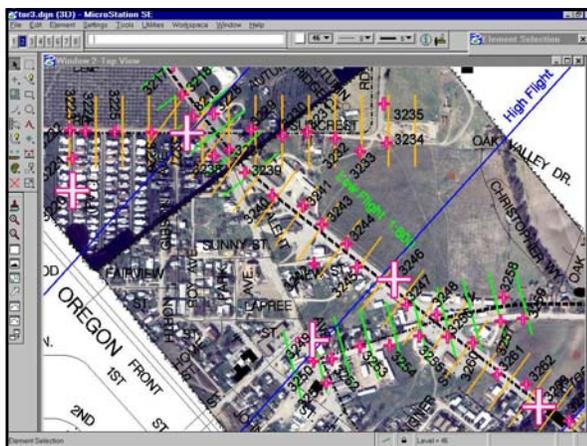
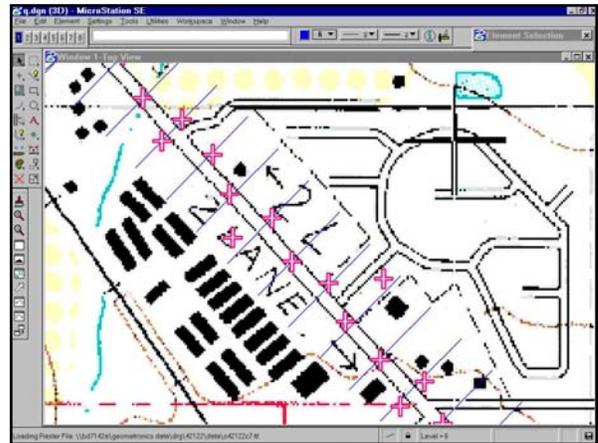
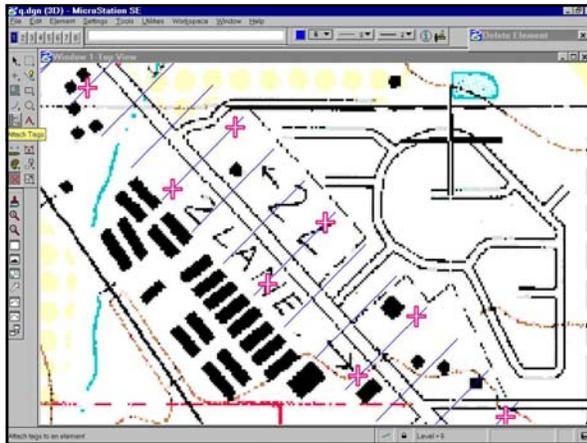
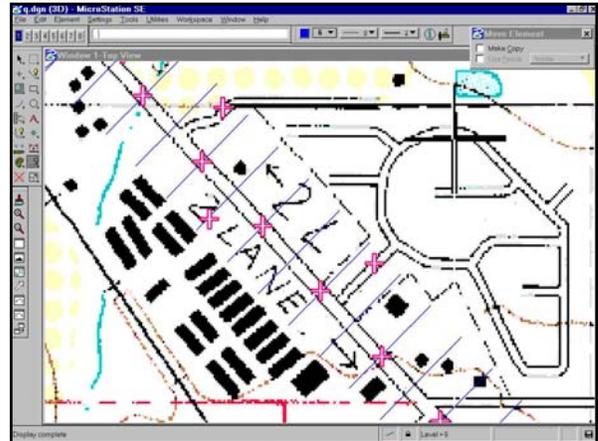
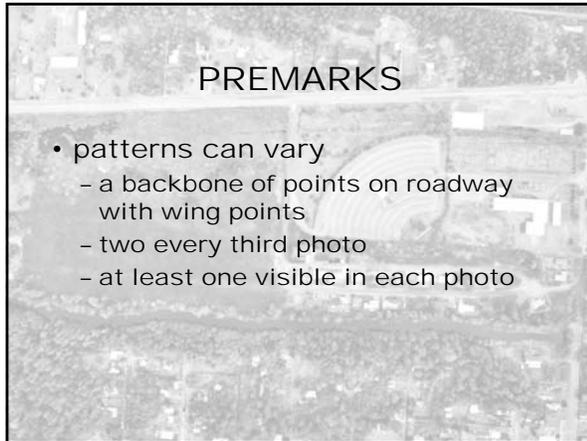
PHOTO OBSERVATIONS

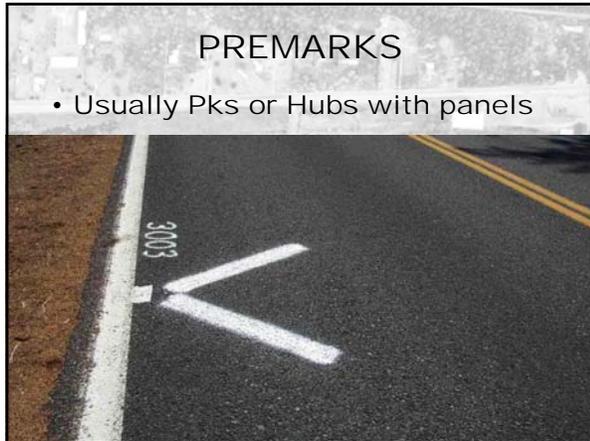
- Points are observed in 3D and measured in photos
- All photo observations are in 2D.

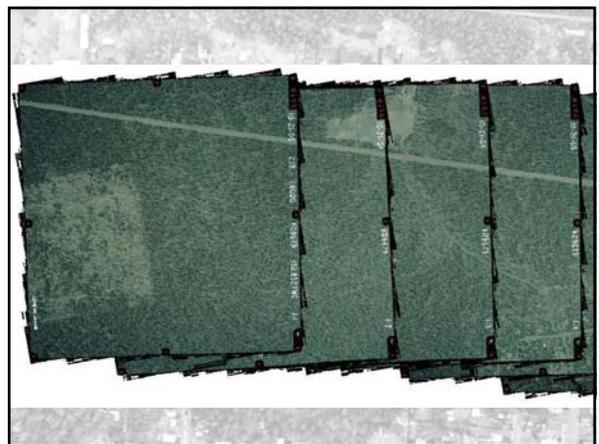
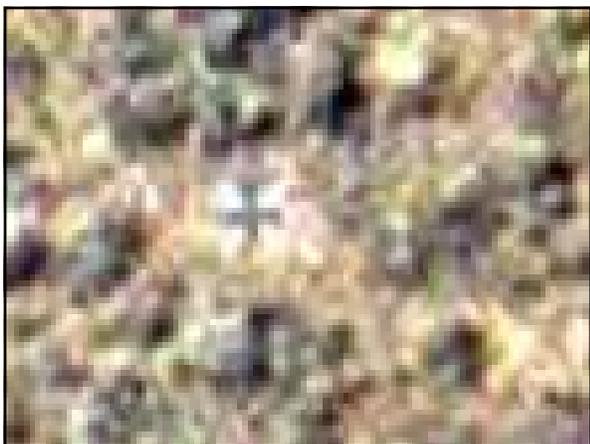
XY Image1 + XY Image2 = XYZ ground

PHOTO OBSERVATIONS

- A least squares adjustment for best fit to coordinates
- Photogrammetry software works with adjusted coordinates
- Checks fit of photo observations with ground survey









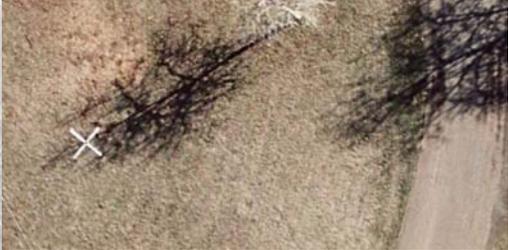
HIGH FLIGHT PANELS

- large panels are painted with an 8" roller and water-based striping paint.



HIGH FLIGHT PANELS

- Sheetrock panels 8"x48" are used off-pavement.



HIGH FLIGHT PANELS

- Plastic panels are used far from roads.

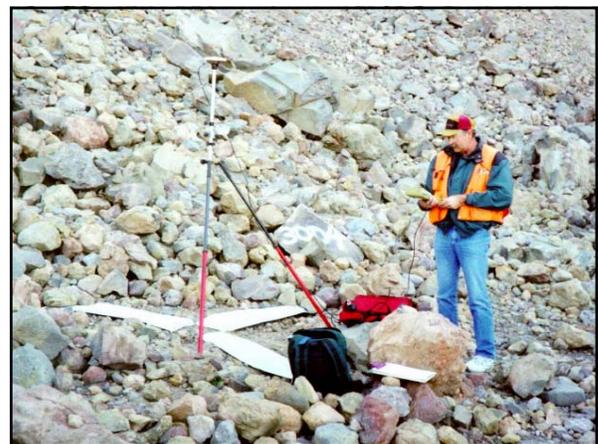


PHOTO ID POINTS

- If premarks are not visible
- or not where we thought they would be on the photo
- points visible in three photos are measured.
 - Inlet corners
 - parking lot stripes
 - pavement joints



WHAT IS IMPORTANT to photogrammetrists

- visible in two photos, three is better
- good geometry, like a network
 - exact location is flexible



WHAT IS IMPORTANT to photogrammetrists

- Premark lasts long enough for photos and survey
- must be measurable
 - not in traffic
 - or behind obstructions



- descriptions or 'to reach' are rarely written
 - we can see them in the photos
- any point (BMs, network) can be premarked and used
 - more is better

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DO THEY LAST?

- photo control can be used for other mapping
 - but it should be planned, precision may be wrong for the purpose
 - Surveys are not usually filed so there is no base of bearing for another project.

PREMARKS

- Must be visible in the pictures
- Layout is flexible
- Must be planned for their intended use