SETTING UP YOUR OWN SIGN INVENTORY

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Why do an Inventory?

- What and where are my current signs?
- What signs do we need to add?
- Are our signs up to code?
- What do our signs look like at night?
- What's the condition of the post & sign(s)?
- How much money should we budget for signs?

Tools you will need

Tablet (GPS)



Retro Reader



ArcOnline

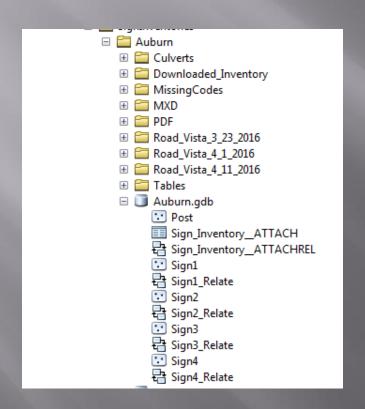


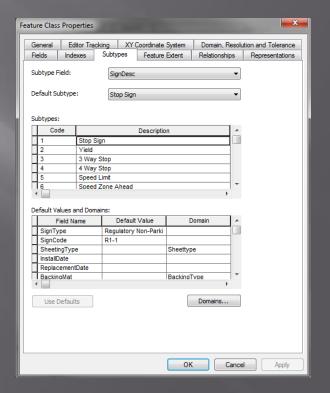
Notebook



Setting up your Project

1. Set up your project folder & relate features:

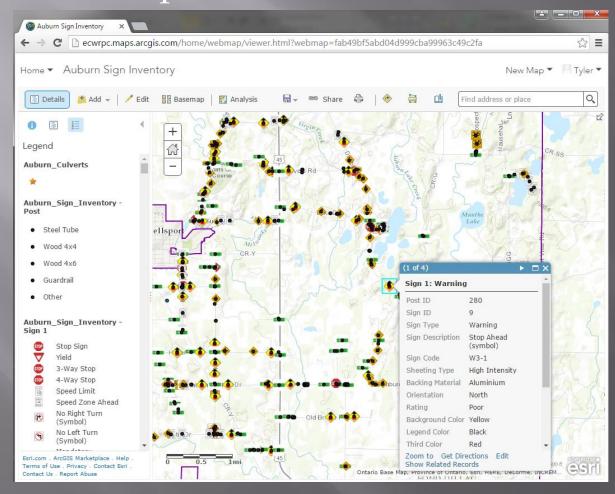




Relate features to features (signs to post by ObjectID). Set up your descriptions and domains

Setting up your Project

2. Set up ArcGIS Online



Upload as a feature service with editing. Set up symbology & test to make sure it is working properly

Post and sign must be related by OBJECTID to edit

Setting up your Project

■ 3. Make sure your retroreflectometer gun is set!





Retrore WHAT???

- Tests reflectivity of sign in dark environments when car lights hit it.
- Part of code requirements to hit certain number

Traffic Sign Retroreflectivity

New MUTCD Table 2A.3 Minimum Maintained Retroreflectivity Levels

Sign Color	Sheeting Type (ASTM D4956-04) ①				1 S. S. S. S.
	Beaded Sheeting			Prismatic Sheeting	Additional Criteria
	1	11	III	III, IV, VI, VII, VIII, IX, X	Ciltoria
White on Green	W* G≥7	W* G ≥ 15	W* G ≥ 25	W ≥ 250; G ≥ 25	Overhead
	W* G≥7	7 W≥120; G≥15			Ground- mounted
Black on Yellow or Black on Orange	Y*; O*	Y ≥ 50; O ≥ 50			0
	Y*; O*	Y ≥ 75; O ≥ 75			3
White on Red	W ≥ 35; R ≥ 7				4
Black on White	W ≥ 50				1112-11

① The minimum maintained retroreflectivity levels shown in this table are in units of cd/lx/m² measured at an observation angle of 0.2° and an entrance angle of -4.0°.
 ② For text and fine symbol signs measuring at least 1200 mm (48 in) and for all sizes of bold

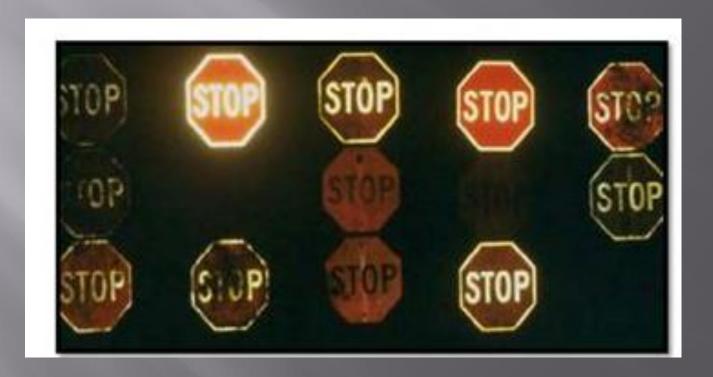
Minimum Sign Contrast Ratio ≥ 3:1 (white retroreflectivity - red retroreflectivity)
 This sheeting type should not be used for this color for this application.



Tribularies
⑤ For text and fine symbol signs measuring less than 1200 mm (48 in)

Why can't I just eye ball it??

■ Reflectometer costs roughly \$10,000



Post Processing

- 1. Offload data from ArcGIS Online
- 2. Join data from Retroreflectometer to points
- 3. Set up your map book (data driven pages)
- 4. Mark poor signs, create cost estimate



Thanks for listening

GIS Department

