**GPS for Construction**

**2019 SE Region Construction Training**

**RTK GPS Components**

* WISCORS Base Stations
* RTK GPS Rover & Data Collector
* MiFi / phone for internet connection
* Control / HMOD

**Uses of RTK GPS for Construction Management**

* Project Control Checks / perpetuation / Contractor calibration verification
* Verification of contractor staking
* Surface Model and alignment checks (subgrade/base course)
* Quantity measurements
  + EBS
  + Borrow
  + Rip Rap/Silt Fence/E-Mat/etc.
  + \*\*Earthwork\*\*Finals\*\* (discussion needed)
* Construction changes/modifications
* Utility conflicts/verification

**Impacts of RTK GPS uses in Construction**

* Significant time savings
* Cost savings
* Increased safety
* Accurate quantity measurements
* Improved Asbuilt records
* Etc.

**GPS for Construction (needs/challenges/future)**

* Staff training / mentoring / support needed
* Dedicated project staff with survey/GPS experience
* Consultants use of WisDOT GPS equipment
* GPS upgrades / maintenance / warranties
* Construction staff with limited occasional GPS use
* Other