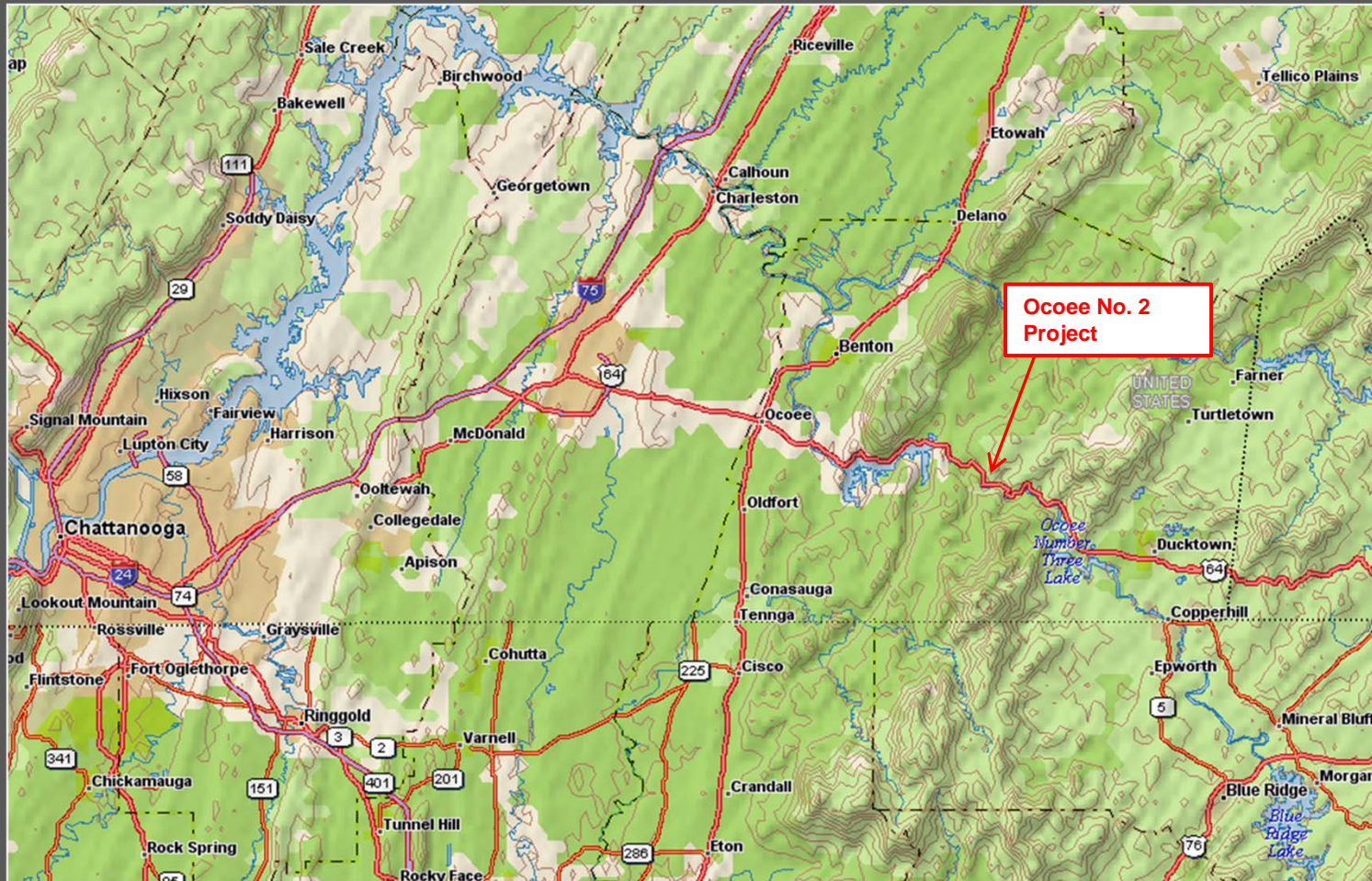


# Ocoee No. 2 Flume Rockslide Stabilization



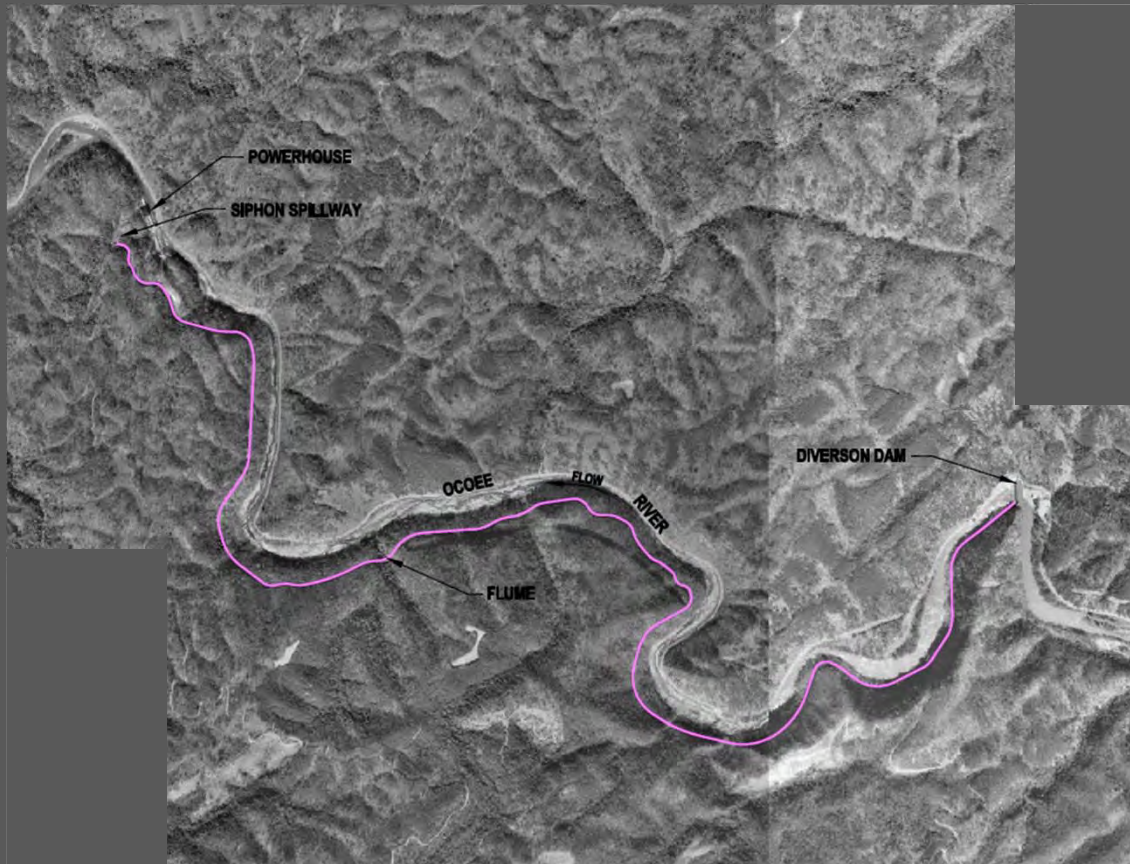
# Ocoee No. 2 Flume Rockslide Stabilization

## Project Location



# Ocoee No. 2 Flume Rockslide Stabilization

## Project Location



# Ocoee No. 2 Flume Rockslide Stabilization

## Diversion Dam



# Ocoee No. 2 Flume Rockslide Stabilization



# Ocoee No. 2 Flume Rockslide Stabilization

## Emergency Response- Stability Evaluation



# Ocoee No. 2 Flume Rockslide Stabilization



# Ocoee No. 2 Flume Rockslide Stabilization

## Stabilization Design

- **Limited field data was collected from site:**
  - **Wilhite Formation of the Walden Creek Group, Ocoee Super Group (Phyllite)**
  - **Structural data of rock mass including cleavage planes and joints**
- **This data was used to develop assumptions for stabilization design**
- **Design calculations based on USACE EM 1110-1-2907, “Engineering and Design: Rock Reinforcement”**
- **Initial Stabilization Scope of Work included:**
  - **Scaling and Grubbing**
  - **Rock Bolting**



# Ocoee No. 2 Flume Rockslide Stabilization



# Ocoee No. 2 Flume Rockslide Stabilization

## Scaling and Grubbing



# Ocoee No. 2 Flume Rockslide Stabilization



# Ocoee No. 2 Flume Rockslide Stabilization

## Drilling



# Ocoee No. 2 Flume Rockslide Stabilization



# Ocoee No. 2 Flume Rockslide Stabilization

## Initial Stabilization



# Ocoee No. 2 Flume Rockslide Stabilization



# Ocoee No. 2 Flume Rockslide Stabilization

## Mechanical Anchors





# Ocoee No. 2 Flume Rockslide Stabilization

## Grouted Anchors



# Ocoee No. 2 Flume Rockslide Stabilization

## Grouted Anchors



# Ocoee No. 2 Flume Rockslide Stabilization

## Grouting



# Ocoee No. 2 Flume Rockslide Stabilization

## Testing and Post Tensioning



# Ocoee No. 2 Flume Rockslide Stabilization



# Ocoee No. 2 Flume Rockslide Stabilization

April 29, 2010



# Ocoee No. 2 Flume Rockslide Stabilization

July 19, 2010



# Ocoee No. 2 Flume Rockslide Stabilization

August 13, 2010





# Ocoee No. 2 Flume Rockslide Stabilization

August 28, 2010 Debris Monitoring



# Ocoee No. 2 Flume Rockslide Stabilization

November 18, 2010



# Ocoee No. 2 Flume Rockslide Stabilization



# Ocoee No. 2 Flume Rockslide Stabilization

## Foundation Grade Beams



# Ocoee No. 2 Flume Rockslide Stabilization

## Lower Bluff



# Ocoee No. 2 Flume Rockslide Stabilization

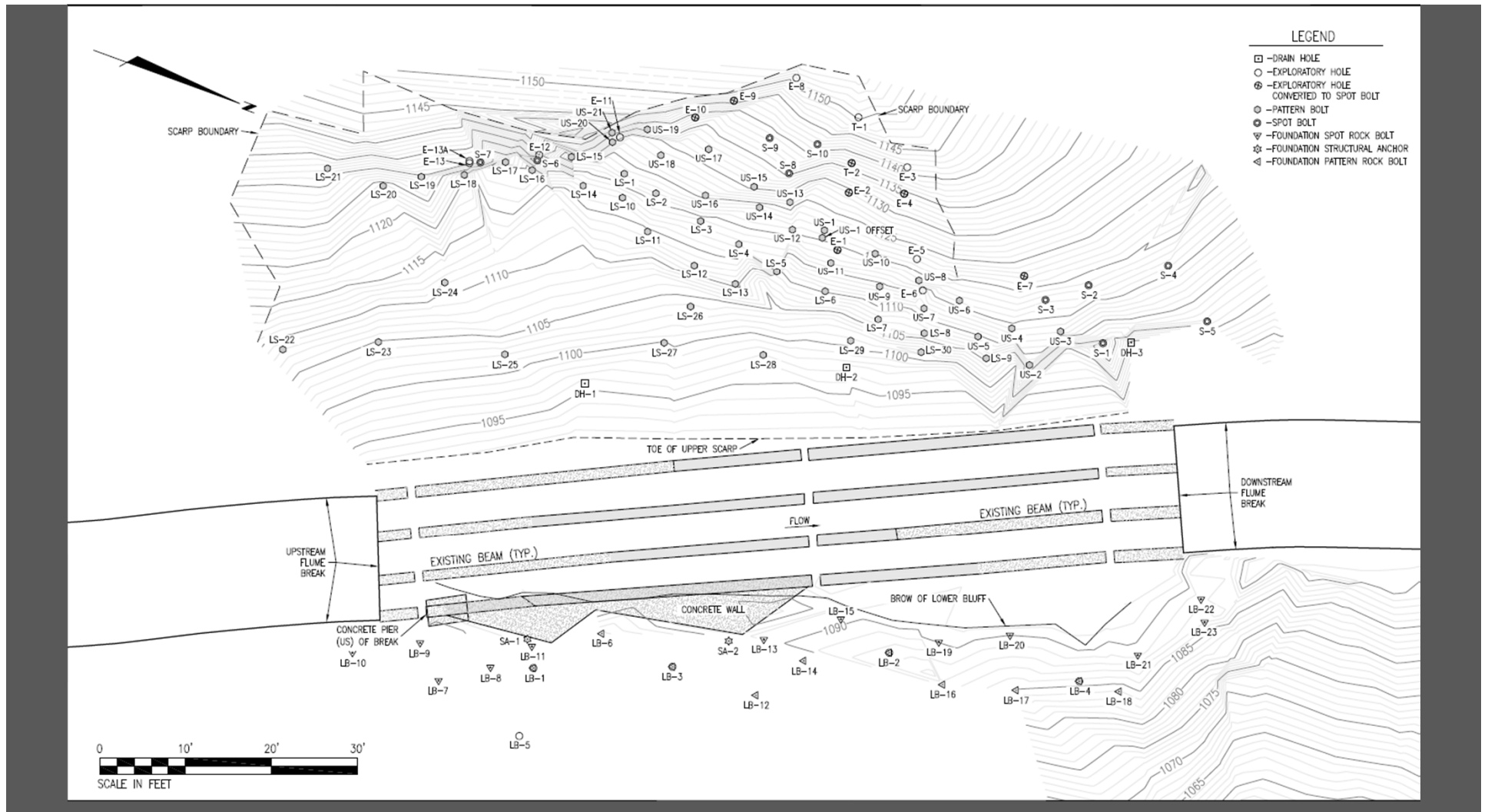
## Lower Bluff Reinforcement



# Ocoee No. 2 Flume Rockslide Stabilization



# Ocoee No. 2 Flume Rockslide Stabilization





# Ocoee No. 2 Flume Rockslide Stabilization

Snow



# Ocoee No. 2 Flume Rockslide Stabilization Scenic

