

Road Construction

- I. Topographic Survey of Project Site (ACTIVITY)
 1. Use Vehicles Off-Road (ACTIVITY)
 2. Place Geomarkers (ACTIVITY)
 3. Conduct Theodolite/GPS Survey (ACTIVITY)
 4. Prepare the Project Site (ACTIVITY)
 - A. Remove Vegetation (ACTIVITY)
 1. Cutting Vegetation (ACTIVITY)
 2. Stockpile Vegetation (ACTIVITY)
 3. Dispose of Vegetation (ACTIVITY)
 - a. Burn Vegetation Onsite (ACTIVITY)
 - b. Redistribute Vegetation Onsite (ACTIVITY)
 - c. Haul Vegetation Offsite (ACTIVITY)
 1. Use of Disposal Areas (terrestrial) (ACTIVITY)
 4. Use Heavy Equipment (ACTIVITY)
 - B. Remove Rock and Rock out Crops (ACTIVITY)
 1. Remove Rocks (ACTIVITY)
 2. Stockpile Rocks (ACTIVITY)
 3. Dispose of Rocks (ACTIVITY)
 - a. Bury Rocks Onsite (ACTIVITY)
 - b. Sidecast Rocks Onsite (ACTIVITY)
 - c. Crush Rocks Onsite (ACTIVITY)
 1. Redistribute Rocks Onsite (ACTIVITY)
 2. Stockpile Crushed Rock (ACTIVITY)
 - d. Haul Rocks Offsite (ACTIVITY)
 1. Use of Disposal Areas (terrestrial) (ACTIVITY)
 4. Use Heavy Equipment (ACTIVITY)
 5. Blasting (ACTIVITY)
 - C. Excavation of Soils/Sediments (ACTIVITY)
 1. Dispose of Soils/Sediments (ACTIVITY)
 - a. Haul Soils Offsite (ACTIVITY)
 1. Use of Disposal Areas (terrestrial) (ACTIVITY)
 - b. Leave Soils Onsite (ACTIVITY)
 1. Redistribute Soils (ACTIVITY)
 2. Stockpile Soils (ACTIVITY)
 2. Remove Soils (ACTIVITY)
 3. Stockpile Soils (ACTIVITY)
 4. Use Heavy Equipment (ACTIVITY)
 - D. Remove Debris (ACTIVITY)
 1. Dispose of Debris (ACTIVITY)

- a. Bury Debris Onsite (ACTIVITY)
 - b. Haul Debris Offsite (ACTIVITY)
 - 1. Use of Disposal Areas (terrestrial) (ACTIVITY)
 - 2. Stockpile Debris (ACTIVITY)
 - 3. Use Heavy Equipment (ACTIVITY)
 - E. Addition of Fill (ACTIVITY)
 - 1. Redistribute Soils (ACTIVITY)
 - 2. Use of Borrow Areas (ACTIVITY)
 - 3. Deposit Imported Soil (ACTIVITY)
 - 4. Use Heavy Equipment (ACTIVITY)
 - F. Grading (ACTIVITY)
 - 1. Redistribute Soils (ACTIVITY)
 - 2. Use Heavy Equipment (ACTIVITY)
 - 5. Walk Through Habitat (ACTIVITY)
- II. Biological Surveys (ACTIVITY)
 - 1. Use Vehicles Off-Road (ACTIVITY)
 - 2. Walk Through Habitat (ACTIVITY)
 - 3. Dive/Snorkel (ACTIVITY)
- III. Geotechnical Investigation (ACTIVITY)
 - 1. Use Vehicles Off-Road (ACTIVITY)
 - 2. Soil Core Sampling (ACTIVITY)
 - A. Take Soil Cores (ACTIVITY)
 - 1. Use Hand-Coring Tools (ACTIVITY)
 - 2. Use Vehicle Mounted-Coring Tools (ACTIVITY)
 - B. Backfill Soil Core Holes (ACTIVITY)
 - 3. Walk Through Habitat (ACTIVITY)
 - 4. Geophysical Survey (ACTIVITY)
 - A. Use Hand-Coring Tools (ACTIVITY)
 - B. Use Vehicle Mounted-Coring Tools (ACTIVITY)
 - C. Blasting (ACTIVITY)
 - D. Ground Penetrating Radar (ACTIVITY)
- IV. Staging Area Construction (ACTIVITY)
 - 1. Prepare the Project Site (ACTIVITY)
 - A. Remove Vegetation (ACTIVITY)
 - 1. Cutting Vegetation (ACTIVITY)
 - 2. Stockpile Vegetation (ACTIVITY)
 - 3. Dispose of Vegetation (ACTIVITY)
 - a. Burn Vegetation Onsite (ACTIVITY)
 - b. Redistribute Vegetation Onsite (ACTIVITY)
 - c. Haul Vegetation Offsite (ACTIVITY)
 - 1. Use of Disposal Areas (terrestrial) (ACTIVITY)

4. Use Heavy Equipment (ACTIVITY)
 - B. Remove Rock and Rock out Crops (ACTIVITY)
 1. Remove Rocks (ACTIVITY)
 2. Stockpile Rocks (ACTIVITY)
 3. Dispose of Rocks (ACTIVITY)
 - a. Bury Rocks Onsite (ACTIVITY)
 - b. Sidecast Rocks Onsite (ACTIVITY)
 - c. Crush Rocks Onsite (ACTIVITY)
 1. Redistribute Rocks Onsite (ACTIVITY)
 2. Stockpile Crushed Rock (ACTIVITY)
 - d. Haul Rocks Offsite (ACTIVITY)
 1. Use of Disposal Areas (terrestrial) (ACTIVITY)
 4. Use Heavy Equipment (ACTIVITY)
 5. Blasting (ACTIVITY)
 - C. Excavation of Soils/Sediments (ACTIVITY)
 1. Dispose of Soils/Sediments (ACTIVITY)
 - a. Haul Soils Offsite (ACTIVITY)
 1. Use of Disposal Areas (terrestrial) (ACTIVITY)
 - b. Leave Soils Onsite (ACTIVITY)
 1. Redistribute Soils (ACTIVITY)
 2. Stockpile Soils (ACTIVITY)
 2. Remove Soils (ACTIVITY)
 3. Stockpile Soils (ACTIVITY)
 4. Use Heavy Equipment (ACTIVITY)
 - D. Remove Debris (ACTIVITY)
 1. Dispose of Debris (ACTIVITY)
 - a. Bury Debris Onsite (ACTIVITY)
 - b. Haul Debris Offsite (ACTIVITY)
 1. Use of Disposal Areas (terrestrial) (ACTIVITY)
 2. Stockpile Debris (ACTIVITY)
 3. Use Heavy Equipment (ACTIVITY)
 - E. Addition of Fill (ACTIVITY)
 1. Redistribute Soils (ACTIVITY)
 2. Use of Borrow Areas (ACTIVITY)
 3. Deposit Imported Soil (ACTIVITY)
 4. Use Heavy Equipment (ACTIVITY)
 - F. Grading (ACTIVITY)
 1. Redistribute Soils (ACTIVITY)
 2. Use Heavy Equipment (ACTIVITY)
2. Construct Runoff/Sedimentation Control Structure (ACTIVITY)
 - A. Control Runoff/Sedimentation (ACTIVITY)

1. Create Berms (ACTIVITY)
 - a. Redistribute Soils (ACTIVITY)
 - b. Use Heavy Equipment (ACTIVITY)
 - c. Berm structure (STRUCTURE)
 2. Create Drainage Ditches (ACTIVITY)
 3. Install Drainage Pipes (ACTIVITY)
 - a. Dig Trenches (ACTIVITY)
 1. Excavation of Soils/Sediments (ACTIVITY)
 - Dispose of Soils/Sediments (ACTIVITY)
 - Haul Soils Offsite (ACTIVITY)
 - Use of Disposal Areas (terrestrial) (ACTIVITY)
 - Leave Soils Onsite (ACTIVITY)
 - Redistribute Soils (ACTIVITY)
 - Stockpile Soils (ACTIVITY)
 - Remove Soils (ACTIVITY)
 - Stockpile Soils (ACTIVITY)
 - Use Heavy Equipment (ACTIVITY)
 2. Fill Trench (ACTIVITY)
 - Use Hand Tools (ACTIVITY)
 - Use Heavy Equipment (ACTIVITY)
 3. Remove Vegetation (ACTIVITY)
 - Cutting Vegetation (ACTIVITY)
 - Stockpile Vegetation (ACTIVITY)
 - Dispose of Vegetation (ACTIVITY)
 - Burn Vegetation Onsite (ACTIVITY)
 - Redistribute Vegetation Onsite (ACTIVITY)
 - Haul Vegetation Offsite (ACTIVITY)
 - Use of Disposal Areas (terrestrial) (ACTIVITY)
 - Use Heavy Equipment (ACTIVITY)
 4. Trench (STRUCTURE)
 - b. Lay Pipes (ACTIVITY)
 - c. Cover Pipes (ACTIVITY)
 4. Use Heavy Equipment (ACTIVITY)
- B. Dispose of Runoff/Sedimentation (ACTIVITY)

1. Connect to Sewer System (ACTIVITY)
2. Outflow into Natural Drainage (ACTIVITY)
3. Detention Basin Construction (ACTIVITY)
 - a. Detention Basin Structure (STRUCTURE)
4. Use Heavy Equipment (ACTIVITY)
- C. Runoff/Sedimentation Control Structure (STRUCTURE)
- D. Silt Fence Structure (STRUCTURE)
- E. Ditch Check Structure (STRUCTURE)
3. Outdoor Lighting Construction (ACTIVITY)
 - A. Erect Supports (ACTIVITY)
 1. Dig Footings (ACTIVITY)
 - a. Dispose of Soils/Sediments (ACTIVITY)
 1. Haul Soils Offsite (ACTIVITY)
 - Use of Disposal Areas (terrestrial) (ACTIVITY)
 2. Leave Soils Onsite (ACTIVITY)
 - Redistribute Soils (ACTIVITY)
 - Stockpile Soils (ACTIVITY)
 - b. Use Heavy Equipment (ACTIVITY)
 - c. Use Vehicles Off-Road (ACTIVITY)
 - d. Remove Vegetation (ACTIVITY)
 1. Cutting Vegetation (ACTIVITY)
 2. Stockpile Vegetation (ACTIVITY)
 3. Dispose of Vegetation (ACTIVITY)
 - Burn Vegetation Onsite (ACTIVITY)
 - Redistribute Vegetation Onsite (ACTIVITY)
 - Haul Vegetation Offsite (ACTIVITY)
 - Use of Disposal Areas (terrestrial) (ACTIVITY)
 4. Use Heavy Equipment (ACTIVITY)
 2. Install Support (ACTIVITY)
 - a. Use Hand Tools (ACTIVITY)
 - b. Use Heavy Equipment (ACTIVITY)
 - c. Use Vehicles Off-Road (ACTIVITY)
 3. Support Structure (STRUCTURE)
 - B. String Overhead Powerlines (ACTIVITY)
 1. Use Vehicles Off-Road (ACTIVITY)
 - C. Bury Powerlines (ACTIVITY)
 1. Cover Cables (ACTIVITY)
 2. Lay Cables (ACTIVITY)

3. Dig Trenches (ACTIVITY)
 - a. Excavation of Soils/Sediments (ACTIVITY)
 1. Dispose of Soils/Sediments (ACTIVITY)
 - Haul Soils Offsite (ACTIVITY)
 - Use of Disposal Areas (terrestrial) (ACTIVITY)
 - Leave Soils Onsite (ACTIVITY)
 - Redistribute Soils (ACTIVITY)
 - Stockpile Soils (ACTIVITY)
 2. Remove Soils (ACTIVITY)
 3. Stockpile Soils (ACTIVITY)
 4. Use Heavy Equipment (ACTIVITY)
 - b. Fill Trench (ACTIVITY)
 1. Use Hand Tools (ACTIVITY)
 2. Use Heavy Equipment (ACTIVITY)
 - c. Remove Vegetation (ACTIVITY)
 1. Cutting Vegetation (ACTIVITY)
 2. Stockpile Vegetation (ACTIVITY)
 3. Dispose of Vegetation (ACTIVITY)
 - Burn Vegetation Onsite (ACTIVITY)
 - Redistribute Vegetation Onsite (ACTIVITY)
 - Haul Vegetation Offsite (ACTIVITY)
 - Use of Disposal Areas (terrestrial) (ACTIVITY)
 4. Use Heavy Equipment (ACTIVITY)
 - d. Trench (STRUCTURE)
4. Use Vehicles Off-Road (ACTIVITY)
- D. Use of Portable Lighting Equipment (ACTIVITY)
 1. Use Vehicles Off-Road (ACTIVITY)
 2. Walk Through Habitat (ACTIVITY)
- E. Lighting Structure (STRUCTURE)