



Public Works & Transportation Annex

Primary Agency	Clermont County Engineer's Office Clermont County Water Resources Municipal & Township Service / Road Departments Municipal & Private Water & Sanitation Utilities Utility Providers
Support Agencies	Clermont County Building Department Clermont County Department of Public Safety Services (DPSS) Clermont County Emergency Management Agency (EMA) Clermont County Public Health (PH) Clermont County Sheriff's Office Local Fire Departments Local Law Enforcement Agencies Municipal Zoning Departments Ohio Department of Transportation

I. Purpose, Scope, Situations and Assumption

Clermont County has an extensive transportation network including road, rail, river, air, and pipeline. Interstate 275, State Route 28, State Route 32, State Route 125, U.S. Route 50 and U.S Route 52 are major transportation thoroughfares. Rail lines run on the northern boundary (operated by CSX) and through the center of the County (operated by Norfolk Southern). Commercial barge and boat traffic travel the Ohio River. The County has a regional airport located in Batavia.

A. Purpose

The purpose of this annex is to outline the local organizations, roles, and responsibilities to accomplish coordinated public works and utility response/restoration during and following a significant natural, technological, or human caused disaster in the County.

B. Scope

This annex addresses the critical public works and transportation functions not described in more detail in other annexes or appendices. Activities include:

- Damage assessment roads, highways, culverts, ditches, bridges, signals, guardrails, water supplies, waste water treatment systems, gas and electric utilities, and cellular network infrastructure
- Temporary and permanent repair of critical transportation infrastructure and systems
- Construction of emergency access routes necessary for public safety response
- Emergency repairs and restoration of potable water and wastewater treatment systems
- Inspection and management of storm water systems
- Emergency debris removal and route clearance
- Coordination with public and private partners to ensure prompt restoration of other utility related critical infrastructure and services



C. Situations

Disasters cause property damage to homes, public buildings, roads, bridges, culverts, and other critical facilities. Structures may be destroyed or severely weakened and will have to be repaired, reinforced or demolished to ensure safety. Debris may make streets and highways impassable. Public utilities may be damaged and may be partially or fully inoperable.

As a result of the emergency, public works and utility providers may face additional challenges including flooded roadways, icy roadways, downed utility lines, debris blocking transportation routes, wastewater discharges, contaminated drinking water, and ruptured underground storage tanks and pipelines.

D. Assumptions

- The state, county, township and municipal road departments will assist in the coordination of public works assets to respond to transportation related issues that affect the County
- Public Works agencies will assist with the inspection, repair and restoration of publicly owned critical facilities to the extent possible
- Repairs to transportation systems will be prioritized based on the impact on: disaster response operations, the affected communities, and disaster survivors
- Public Works agencies will perform tasks under their own authorities
- Disasters may overwhelm local entities. Mutual aid resources may be required
- Rapid damage assessment of the disaster area will be necessary to prioritize resources and to implement temporary emergency repairs
- Damage inspections will err on the side of safety. If a structure appears unsafe, it will be vacated until a detailed inspection demonstrates its safety or repairs have been completed

II. Concept of Operations

The County Engineer representative assigned to the EOC will be the Public Works Liaison to coordinate, track and monitor road and bridge related issues. The Clermont Water Resources will be the liaison for coordinating repair and restoration of water and waste water utilities. As the incident escalates, additional agencies/organizations will assign representatives to the EOC to assist in the coordination of specific function related activities.

Activities include:

- Clearing debris from roadways/right-of-ways
- Providing barricades and signage to restrict access and reroute traffic
- Coordination of road closures and establishing alternate routes in conjunction with public safety officials
- Emergency restoration of critical public services and facilities
- Technical assistance
- Damage assessment of private utility operations

A. Mitigation

To prevent or reduce the impact of disasters, agencies should:

- Develop a system to track resources deployed for disaster response
- Identify high risk areas and develop mitigation actions to reduce potential impact
- Routinely check culverts, right-of-ways, and drainage areas to remove debris
- Routinely monitor landslide prone areas and identify funding to address slips
- Coordinate with utility providers to clear trees that could potentially impact utility transmission
- Identify high water prone locations

B. Preparedness

Agencies should:

- Maintain standard operating guides (SOGs) to handle daily situations
- Maintain emergency call-out lists of critical personnel
- Maintain and update list of local private contractors that can provide support during an emergency
- Participate in the development and exercising of the County EOP
- Develop mutual aid agreements between agencies, as appropriate
- Train personnel on the National Incident Management System (NIMS) and Incident Command System (ICS)
- Designate a Liaison to the EOC, when the EOC is activated
- Assist EMA with updating the County Resource Manual by identifying sources, locations, and availability of earthmoving equipment, dump trucks, road graders, fuel, etc. that could be used to support disaster response and recovery
- Ensure that debris removal equipment is in good repair and that barrier and roadblock materials are available
- Develop contingency plans for providing potable water during long-term water system disruptions
- Maintain maps of county and municipal water, sewer, and utility service areas

C. Response

Agencies agree to:

- Provide heavy equipment resources for emergency operations, if available, when requested
- Provide assistance with emergency clearance of debris for reconnaissance of the damage areas and passage of emergency personnel and equipment for health and safety purposes
- Provide for repair and restoration of water distribution and waste water facilities
- Restrict access to hazardous areas, using barricades, temporary fencing, and signage, upon request.
- Remove debris from right-of-ways
- Survey affected areas, assess damage, and determine the need and priority for repair or protection to prevent further damage. Damage assessments should be reported to the EOC
- Coordinate with Public Health for the provision of potable water
- Provide information to Public Works liaison in the EOC, who will advise decision makers and coordinate response efforts among departments and agencies
- Determine the safety of evacuation routes and bridges

D. Recovery

Agencies agree to:

- Support cleanup and recovery operations
- Coordinate utility repair with utility providers including Public Utilities Commission of Ohio
- Assess damage to equipment, roadways, bridges, culverts, etc. and estimate cost to repair/restore transportation infrastructure
- Maintain records and documentation for all expenses related to the response and recovery activities
- Participate in post-incident after action meetings to identify lessons learned and update emergency plans
- Participate in post-incident structural assessments; develop cost estimates; complete written project proposals; determine priority repair/reconstruction projects

III. Assignment of Responsibilities

A. Primary Agencies

County Engineer (Public Works Liaison)

- Provide a liaison to the EOC, if activated
- Maintain roster of primary and support agencies, make appropriate notifications, activate agencies as necessary, and maintain on-going communications
- Coordinate with Public Works agencies to develop and prioritize countywide missions
- Coordinate mutual aid and private vendor resources through resource request process
- Assist with the impact assessment for county public transportation structures, equipment, and debris in order to prioritize the impacted areas and resource needs
- Provide personnel and equipment for emergency activities including: demolition and/or emergency repairs, or stabilization of unsafe public transportation structures
- Provide briefing and complete daily situation report on the status of transportation infrastructure
- Maintain documentation of personnel, equipment, and expenses

Municipal & Township Service/Road Departments

- Coordinate damage assessment to determine types of damage to and repairs needed for public transportation infrastructure in their respective jurisdiction
- Provide personnel and equipment for emergency activities including: demolition and/or emergency repairs, or stabilization of unsafe public transportation structures
- Provide reports to Public Works Liaison in EOC on the status
- Procure needed equipment and services from private contractors
- Maintain documentation of personnel, equipment, and expenses

County Water Resources

- Coordinate with water providers throughout the county to maintain water and waste water infrastructure, and water pressure
- Determine location and extent of any main breaks
- Coordinate with Public Health and Ohio EPA for water testing support
- Monitor sewage system during floods and hazardous material releases
- Coordinate damage assessment of water utilities including debris removal, protective measures, and damage to facilities and equipment
- Restore treatment plants and potable water distribution system; coordinate with other water providers.
- Contain, direct and treat wastewater.
- Restore water to ensure provision of fire flow
- Provide reports to liaison in EOC on the status of water/waste water infrastructure
- Procure needed equipment and services from private contractors
- Maintain documentation of personnel, equipment, and expenses

Municipal & Private Water Providers

- Coordinate damage assessment to determine types of damage to and repairs needed for restoration of water and waste water systems
- Maintain water and waste water infrastructure, storm sewers and water pressure including provisions for fire flow
- Monitor sewage system during floods and hazardous material releases
- Restore treatment plans and potable water distribution system
- Contain, direct and treat wastewater

- Provide reports to liaison in EOC on the status of transportation infrastructure
- Procure needed equipment and services from private contractors
- Maintain documentation of personnel, equipment, and expenses

Gas/Electric/Cellular Providers

- Provide a liaison to the EOC, if warranted
- Coordinate damage assessment to determine types of damage to and repairs needed for restoration of the utility network
- Coordinate emergency personnel to respond to utility issues that impair access by public safety agencies
- Coordinate the removal and restoration of utility wires impacting roadways
- Provide reports to liaison in EOC on the status of infrastructure
- Procure needed equipment and services from private contractors
- Maintain documentation of personnel, equipment, and expenses

B. Secondary Agencies

Clermont County Building Department & Municipal Zoning Departments

- Coordinate with Utility Providers and local fire departments on utility shut-offs and restorations
- Coordinate with County, Cities, Townships and Villages on damage assessment and debris management process – see Damage Assessment Annex and Debris Management Annex

Clermont County Emergency Management Agency

- Coordinate with County, Cities, Townships and Villages for the collection of Public Assistance (PA) Damages including structures, equipment, and debris clearance

Clermont County Public Health

- Provide testing of private wells for contamination
- Provide testing and permits for water haulers and portable water storage tanks

County Sheriff, Local Police Departments, & Ohio State Highway Patrol

- Provide traffic control and enforcement on highways and roadways
- Coordinate with Public Works agencies on developing/implementing traffic control measures
- Support damage assessment of transportation infrastructure

Local Fire Departments

- Coordinate with Public Works agencies in developing traffic control measures
- Assist with emergency debris removal from roadways

Ohio Department of Transportation

- Coordinate damage assessment to determine types of damage to and repairs needed for transportation infrastructure on state highways
- Provide reports to Liaison in EOC on the status of transportation infrastructure

IV. Administration and Logistics

A. Administration

- The County Engineer is the lead coordinating agency for Public Works activities in the EOC

- Clermont County Water Resources serves as the coordinating agency for water and waste water assessment, repair and restoration
- Agencies may assign a representative to the EOC or they may work remotely and provide information to the designated liaison
- Agencies will document all decisions made, resources needed/used, actions taken, and other important information
- The Board of County Commissioners (BCC) may make an emergency declaration to allow emergency actions not otherwise authorized or to request additional public works/transportation resources from the State and/or federal government

B. Logistics

- Transportation for essential workers to/from the impacted area(s) will be provided by their respective organizations
- Agencies will provide regular reports to the liaison in the EOC

V. Authentication

Jeremy P. Evans

Jeremy P. Evans, P.E., P.S., Clermont County Engineer

April 27, 2022

Date

Lyle Bloom

Lyle Bloom, Clermont County Water Resources

May 10, 2022

Date