

# Arkansas State Highway and Transportation Department

## Utility Accommodation Policy



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Arkansas State Highway and Transportation Department  
Right of Way Division  
Utilities Section  
10324 Interstate 30  
P.O. Box 2261  
Little Rock, AR 72203  
501-569-2311



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## DEFINITIONS

**AHTD** - The Arkansas State Highway and Transportation Department.

**ADT - Average Daily Traffic** - Average 24-hour volume, being the total volume during a stated period divided by the number of days in that period. Unless otherwise stated, the period is a year. The term is commonly abbreviated as ADT.

**Abandoned Facility** - Facility that is no longer in service and is physically disconnected from a portion of the operating facility that still carries service. An abandoned facility has been deemed abandoned by the utility owner.

**As-Built Drawings** - Depiction of the installed utility facilities within the highway right of way showing the location and elevation, and referenced to highway stationing, and/or state grid system. Also known as record drawings, these plans depict the facility as constructed, incorporating all field changes.

**Backfill** - Material used to replace or the act of replacing material removed during construction; also may denote material placed or the act of placing material adjacent to structures.

**Backslope** - Slope leading away from flow line of ditch.

**Bedding** - Organization of soil or other suitable material to support a pipe, conduit or casing.

**Betterment** – An improvement of property other than by mere repairs.

**Bond** – Document that legally obligates one party to pay money to AHTD for unsatisfactory work.

**Boring** - Operation by which large carriers or casings are jacked through oversize bores. The bores are carved progressively ahead of the leading edge of the advancing pipe as soil is mucked back through the pipe.

**Bridge** - Structure including supports erected over a depression or an obstruction such as water, highway, or railway; having a track or passageway for carrying traffic or other moving loads; and having a length of twenty (20) feet or greater.

**Bury** - Depth of top of pipe or facility below grade of roadway or ditch.

**Cabinet** – Above ground telecommunication cable housing unit in excess of thirty (30) inches in width.

**Carrier**- Pipe directly enclosing a transmitted liquid, gas, or slurry. Also electric or communication cable, wire or line.

**Casing** - Large pipe enclosing a carrier.

**Clear Zone** - Total roadside border area, starting at the edge of the traveled way, available for safe use by errant vehicles. This area may consist of a shoulder, a recoverable slope, a non-recoverable slope, and/or a clear run-out area. The desired width is dependent upon the traffic volumes and speeds, and on the roadside geometry.

**Coating** - Material applied to or wrapped around a pipe.

**Concrete Slab** – Concrete of unified width and thickness.

**Conduit** - Enclosed runway for protecting wires or cables.

**Control of Access** – The regulation of public access rights to and from properties abutting a highway facility.

**Cover** - Depth to top of pipe, conduit, casing, cable or similar line or utility tunnel below the earth or roadway surface.

**Direct Burial** - Installing a utility underground without encasement.

**Directional Bore** - Method of installing underground pipes and conduits from the surface along a prescribed bore path.

**Drain** - Appurtenance to discharge liquid.

**Drainage Structure** - Structure providing drainage for the highway other than a bridge.

**Driving Surface** – Top layer of material intended for vehicular traffic.

**Dry Bore** - Augured or drilled, the use of water may be used as a lubricant not to exceed 10 psi.

**Duct** - Enclosed casing for protecting wires, lines, or cables, often flexible or semi-rigid.

**Emergency** - Unforeseen occurrence or condition, that may cause harm to persons, property, or the integrity of the highway, calling for immediate action.

**Embankment** - Raised platform of earth to confine a waterway or support a road.

**Encasement** - Structural element surrounding a pipe.

**FHWA** - The Federal Highway Administration.

**Fiber Optic Cable** - Communication cable that contains glass fibers.

**Flow Line of Ditch** - Low point of a ditch that runoff water will follow.

**Force Main** - Construction that forces liquid to flow in a certain direction by pressure within a pipe.

**Foreslope** - Slope leading away from the pavement or shoulder of a highway.

**Freeway** – Divided arterial highway with full control of access.

**Frontage Road** – A separate roadway located on the side of a freeway to provide access to abutting property.

**Full Control of Access** – The regulation of public access rights to give preference to through traffic by providing access connections by means of ramps with only selected public roads and by prohibiting crossings at grade and direct private driveway connections.

**Grade Separation** - Crossing of two highways, or a highway and a railroad, at different levels.

**Grounded** - Connected to earth or to some extended conducting body that serves instead of the earth whether the connection is intentional or accidental.

**High Volume Roadway/Highway** - Over 2,000 ADT

**Highway, Street or Road** - General term denoting a public way for purposes of vehicular travel.



**Interchange** - Grade separated intersection where access to the major highway is obtained by ramp connections from the minor crossing highway.

**Intersection** - Area where two or more highways join or cross.

**Interstate Highways** – A freeway that is a part of the National System of Interstate and Defense Highways.

**License** - Permit, or grant of permission by the AHTD to cross, occupy, perform work on, or use highway right of way or property.

**Low Volume Roadway/Highway** - Under 2,000 ADT

**Manhole/Handhold** - Opening in an underground system which workmen or others may utilize for the purpose of making installations, inspections, repairs, connections, and tests.

**Median** - Portion of a divided highway separating the traveled ways for traffic in opposite directions.

**MUTCD** - Manual on Uniform Traffic Control Devices.

**National Highway System (NHS)** - Interconnected system of principle arterial routes serving major population centers, international border crossings, ports, airports, public transportation facilities, and other intermodal transportation facilities and major travel destinations. The NHS includes all highways on the Interstate System, a large percentage of urban and rural principle arterials, the defense strategic highway network, and major strategic highway connectors.

**OSHA** - Occupational Safety & Health Administration

**Out-of-Service Facility** - Facility that is no longer maintained and is not intended for future use, but has not been deemed abandoned. An out-of-service facility may still be connected to a portion of the operating facility that is in use or still carries service. The utility owner retains ownership of such a facility.

**Partial Control of Access** – The regulation of public access rights to give preference to through traffic to a degree that, in addition to access connections

with selected public roads, there may be some crossings at grade and some private driveway connections.

**Pavement Structure** - Combination of subbase, base course, and surface placed on a subgrade to support the traffic load and distribute it to the roadbed.

**Permit** - Documents by which the AHTD regulates and approves the use and occupancy of highway right of way by utility facilities or private lines.

**Pipe** - Tubular product made as a production item for sale as such. Cylinders, formed from plate in the course of the fabrication of auxiliary equipment are not pipe as defined here.

**Pipeline** - Continuous carrier used primarily for the transportation of liquids, gases, and/or solids from one point to another using either gravity or pressure flow.

**Plant betterment** – Optional upgrade to a utility owner’s equipment or facilities when additional improvements are not mandated by regulations, preexisting policies, or required to clear highway construction.

**Plowing** - Direct burial of utility lines by means of a “plow” type mechanism which breaks the ground, places the utility line and closes the break in the ground in a single operation.

**Pressure** - Relative internal pressure.

**Private Lines** - Privately owned facilities that convey or transmit commodities that are devoted exclusively for private use.

**Relocation** – Changing the location of existing facilities to avoid conflict.

**Rest Area** - Roadside area with parking facilities separated from the roadway provided for motorists to stop and rest for short periods. It may include drinking water, toilets, tables and benches, telephones, information, and other facilities for travelers.

**Right of Way** - General term denoting land, property, or interest therein, usually in a strip acquired for or devoted to transportation purposes.

**Rigid Pipe** - Pipe designed for diametric deflection of less than 1%.

**Roadside** - General term denoting the area adjoining the outer edge of the roadway. Extensive areas between the roadways of a divided highway may also be considered roadside.

**Roadway** - Portion of a highway, including shoulders, for vehicular use. A divided highway has two or more roadways.

**Roadway Cross Section** - Area of a highway facility contained between the outside edges of backslopes/foreslopes (For divided facilities, the term applies to each set of roadways).

**Semi-Rigid Pipe** - Pipe designed to tolerate from 1% to 3% diametric deflection.

**Shared Resources** – Placement of utilities (fiber optics) within Control of Access by special agreement and consideration.

**Shoulder** - Portion of the roadway contiguous with the traveled way for accommodation of stopped vehicles, for emergency use, and for lateral support of base and surface course.

**Subbase** - Layers of specified or selected material of designated thickness placed on a subgrade to support a base course.

**Subgrade** - Top surface of an embankment upon which the pavement structure and shoulders are constructed.

**Trenched** - Installed in a narrow open excavation.

**Toe of Slope** - Bottom of a slope of a fill or cut area usually the lowest point of the slope.

**Traffic Control Device** - Sign, signal, marking, barrier or other control mechanism placed or erected under public authority for the purpose of regulating, warning or guiding traffic.

**Traveled Way** - Portion of the roadway for the movement of through traffic.

**Utility Permit or Use and Occupancy Agreement** - Document by which the AHTD regulates and/or gives approval of the use and occupancy of highway right of way for utility facilities or private lines.

**Utility Tunnel** – Underground corridor for one or more utility lines.

**Vent** - Appurtenance to discharge gaseous contaminants from casing.

**Wet Bore** - Hole is sluiced through the roadway embankment by jetting with water pressure in excess of 10 psi.

## **1 OVERVIEW**

### **1.1 PURPOSE**

This Policy prescribes the minimum requirements for the accommodation of public and private utilities within the right of way of the Arkansas State Highway System.

### **1.2 AUTHORITY**

Under Arkansas Statutes, 27-67-218 and 27-67-304, public utility owners may use highway right of way for the purpose of installation of utility facilities, provided such use will not interfere with the use of the right of way for highway purposes. These statutes require the installation of utility facilities to be in accordance with rules and regulations of the Arkansas State Highway Commission (Commission). A utility owner must secure a permit and post a bond with the Arkansas State Highway and Transportation Department (AHTD) prior to performing any work. The bond will be used by the AHTD in restoring the highway right of way to its former condition if the utility owner fails to properly restore the right of way in accordance with the plans, permit conditions, and this Policy.

### **1.3 SCOPE**

The AHTD, through the Districts and the Utilities Section of the Right of Way Division, is authorized to issue permits and enter into agreements to provide for the installation, relocation, maintenance, or removal of utilities on highway right of way and property, and to issue permits for mechanical trimming and for use of chemicals for vegetation control on highway right of way and property. This Policy regulates and prescribes the location, design, and methods for installation, relocation, maintenance, or removal of utility facilities on AHTD highway right of way.

### **1.4 APPLICATION**

This Policy shall apply to the owners and operators of utility facilities, including but not limited to electric power, water, sewer, gas, communications, chemical, oil, petroleum products, steam, storm water not connected with highway drainage, irrigation, and similar facilities. This Policy shall apply to:

- Installation of new utility facilities;
- Addition to or maintenance of existing utility facilities;
- Relocation of utility facilities;
- Removal of utility facilities; and
- Vegetation control related to utility facilities installations and maintenance.

This Policy shall apply to underground, surface or overhead facilities, either singularly or in combination, including attachments to bridges and highway structures.

### **1.5 PRIOR POLICY**

The provisions of this Policy shall supersede and void all prior Commission or Administrative Orders and/or Statements of AHTD Policy relating to the accommodation and/or relocation of utilities and related vegetation control on highway right of way.

### **1.6 EXCEPTIONS**

Exceptions to any provisions of this Policy may be authorized under certain situations where it is shown that extreme hardship and/or unusual conditions provide justification, and where alternate measures can be prescribed in keeping with the intent of this Policy. Any such exceptions must be:

- a. Requested by an authorized person representing the utility owner;
- b. Recommended for approval by District Engineer;
- c. Concurred in by the Federal Highway Administration (FHWA) if the exception applies to a utility facility located on the Interstate Highway System;
- d. Recommended for approval by the Right of Way Division Head;
- e. Approved by the Assistant Chief Engineer-Design.

### **1.7 ENFORCEMENT**

This Policy shall be enforced as provided for in existing Arkansas Statutes. Such enforcement might include, but is not limited to the following:

- Increased bonding levels to recoup potential restoration costs;
- Denial of future permits until past non-compliance is resolved; and
- Litigation.

### **1.8 RIGHT TO REVOKE**

The Director of Highways and Transportation is authorized to revoke or annul a permit or agreement, subject to giving the utility owner reasonable notice.

Justifications for revocation include, but are not limited to the following:

- Failure to comply with the provisions of this Policy.
- Failure to comply with the terms and conditions of the permit or agreement.
- If the utility occupancy becomes an interference to the use of the highway right of way for highway purposes.

## **2 DESIGN AND INSTALLATION**

### **2.1 GENERAL**

The utility owner shall provide plans detailing the proposed work with the permit application. This section provides information on design and installation requirements for the work.

### **2.2 DESIGN**

- 1) All utility installations within the highway right of way shall conform, as a minimum, to 23 CFR Part 645 B and the most recent versions of the following American Association of State Highway and Transportation Officials (AASHTO) publications:
  - a) Roadside Design Guide;
  - b) A Policy on Geometric Design of Highways and Streets;
  - c) A Policy on the Accommodation of Utilities Within Freeway Right of Way;  
and
  - d) A Guide for Accommodation of Utilities within Highway Right of Way.
- 2) Design of utility installations on, over, or under highway right of way or attached to highway structures shall also, as a minimum, conform with:
  - a) 23 CFR Part 645B, Accommodation of Utilities
  - b) 49 CFR Part 192, Transportation of Natural and Other Gas by Pipeline:  
Minimum Federal Safety Standards
  - c) 49 CFR Part 193, Liquefied Natural Gas Facilities: Federal Safety  
Standards
  - d) 49 CFR Part 195, Transportation of Hazardous Liquids by Pipeline
  - e) The current edition of Arkansas State Highway and Transportation  
Department Standard Specifications for Highway Construction
  - f) The current applicable National Electrical Safety Code for electric power  
and communications.



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- g) The applicable specifications of the current American Water Works Association for waterlines.
  - h) The applicable sections of the current Standard Code of Pressure Piping of the American National Standards Institute, and any other applicable industry codes for pressure pipelines.
  - i) The current applicable practices of the American Petroleum Institute for pipeline crossings under railroads and highways for liquid petroleum pipelines.
  - j) The current specifications established by the American Society for Testing and Materials.
  - k) Rules and regulations of the United States Department of Transportation governing the transportation of such materials for any pipeline carrying hazardous materials.
  - l) Applicable Federal, State and local laws and regulations pertaining to environmental issues, including but not limited to storm water pollution prevention, endangered species, and wetland preservation.
- 3) The utility owner shall ensure that the location of utility facilities and appurtenances complies with the Americans with Disabilities (ADA) Act.
  - 4) The utility owner shall ensure that the work complies with the requirements of the National Pollutant Discharge Elimination System (NPDES) program.
  - 5) Acquiring all necessary permits, including the accommodation of utilities on highway right of way and environmental controls, shall be the responsibility of the utility owner.
  - 6) The design and integrity of any utility installation shall be the responsibility of the utility owner. This includes measures to preserve the safe and free flow of traffic, the structural integrity of the roadway or highway structures, minimal interference with highway maintenance, and the appearance of the highway.

The location and manner of installation within the highway right of way must be reviewed and approved by the AHTD.

- 7) Utility facilities shall be located in a manner that will minimize the need for later relocation to accommodate future highway improvements and allow access for servicing the facilities with a minimum of interference to highway traffic.
- 8) Existing underground utility facilities, vulnerable to damage from highway construction or maintenance operations by reason of shallow bury or quality of the materials, may be allowed to remain in place under roadways in urban areas and low volume highways if suitable bridging, concrete slabs, extra depth, or other appropriate measures are used for protection.
- 9) The horizontal and vertical location of utility facilities within the highway right of way must, to the extent practicable, conform with the clear zone policy applicable to the type of highway and specific conditions of highway section involved.
- 10) The integrity of the roadway cross section must be maintained; therefore, no excavation or longitudinal installations will be permitted within this area with the exception of crossings.
- 11) On new installations or relocations of existing utility lines, provisions should be made for known or planned expansion of the utility facilities, particularly those located underground or attached to bridges. They should be planned so as to minimize hazards and interference with highway traffic when additional facilities are installed in the future.
- 12) Above ground utility facilities should be of a design compatible with the visual quality of the specific highway section being traversed.
- 13) All utility installations within highway right of way or attached to highway structures should be of durable materials designed for long service life expectancy and relatively free from routine servicing and maintenance.

## 2.3 SCENIC ENHANCEMENT

The type and size of utility facilities, and the manner and extent to which they are permitted along or within highway right of way can materially alter the scenic quality, appearance, and view of highway roadsides and adjacent areas. For these reasons, additional controls are applicable in certain areas that have been acquired or set aside for their scenic quality. Such areas may include scenic highways, scenic byways, scenic strips, overlooks, rest areas, recreational areas, and the right of way of sections of highways that pass through forests, parks and historic sites.

- 1) Aerial installations will not be approved at such locations when there is a feasible and prudent alternative. The AHTD may permit exceptions under the following conditions:
  - a) New underground installations may be permitted only if extensive removal or alteration of trees or terrain features visible to the highway users is not required.
  - b) New aerial installations may be permitted only when other locations are not available; are unusually difficult or costly; or are less desirable from the standpoint of aesthetic quality; or when placement underground is not technically feasible or is unreasonably costly.
- 2) The proposed installation will be made at a location that will utilize an approved design and suitable materials that will be compatible with the aesthetic qualities of the area affected.
- 3) To protect trees and shrubbery on the highway right of way, the extent and methods of vegetation removal and trimming for overhead or underground utility installations will require the approval of the District Engineer. The District Engineer may require the utility owner to replace removed trees and shrubs with plants approved by the AHTD.

## 2.4 SAFETY

The following items related to safety apply to the utility owner's activities within the highway right of way. By undertaking work within the highway right of way, the utility owner agrees to the following:

- 1) The utility owner shall assume full liability for any hazard to traffic created by their operation and shall maintain use of appropriate traffic control to protect traffic and shall comply with the current edition of the "Manual on Uniform Traffic Control Devices" (MUTCD).
- 2) The utility owner shall assume full responsibility for safeguarding all utilities in the work area during the time of construction and shall notify Arkansas One-Call and have utility facilities located prior to beginning work that would disturb soil.
- 3) The utility owner shall be responsible for maintaining all existing highway, street, and county road regulatory, warning, guide and informational signs in an effective location at all times for the duration of any work while on highway right of way and shall reinstall them at the correct location upon the completion of the work. Any signs damaged during the work shall be replaced at the utility owner's expense.
- 4) The utility owner shall perform all work in accordance with State law, Federal law and regulations, local ordinances and regulations, and in accordance with Occupational Safety and Health Administration (OSHA) standards.
- 5) The utility owner shall indemnify and save harmless the State of Arkansas, the Arkansas State Highway Commission, the Arkansas State Highway and Transportation Department, its officials and employees in all respects from any and all losses, damages or injury to persons or property resulting in any manner from any negligent act or omission in connection with work operations, occupancy or use of AHTD highway right of way or property.

## 2.5 WORK CONDITIONS

The following conditions apply to the utility owner's activities within the highway right of way. By undertaking work within the highway right of way, the utility owner agrees to these conditions. These conditions should be considered in the design and installation of the utility facilities:

- 1) The utility owner shall notify the District Engineer four (4) AHTD business days prior to beginning work on highway right of way.
- 2) Any lane closure or lane width restriction required by the utility work shall comply with the current edition of the MUTCD. The utility owner shall notify the District Engineer in writing a minimum of four (4) AHTD business days prior to any planned lane closure or lane width restriction. This notification shall include the beginning and ending dates for the closure or restriction, the beginning and ending times for the closure or width restriction, a description (inside/outside, traffic direction) of the lane to be closed or width restricted, and the minimum width of the remaining lane or lanes open to traffic. The utility owner shall notify the District Engineer in writing when the lane closure or width restriction is removed.
- 3) The utility owner shall take all means necessary to protect the traveling public and to avoid any hazard or interference to the safe and free movement of traffic on the highway. In some circumstances it may be necessary that the District Engineer establish the hours of work.
- 4) The utility owner shall provide adequate protection on or over any pavement, roadway surfacing, shoulders or highway structure before moving or operating any heavy or steel tracked or cleated equipment thereon. The method of protection must be acceptable to the District Engineer.
- 5) The utility owner shall not use heavy equipment on soft shoulders or unsurfaced right of way areas during wet or inclement weather in the initial construction or during normal servicing when such use could cause excessive damage to the shoulders or unprotected right of way areas.

- 6) The utility owner shall provide for restoration or repair of any portion of a bridge, highway structure, or other highway facility disturbed or damaged by utility installation, maintenance, or use.
- 7) The utility owner shall conduct the work in a manner to avoid tracking mud onto the roadway surface, immediately remove any mud tracked onto the roadway, and take appropriate action to avoid additional tracking.
- 8) The utility owner shall take steps to eliminate dust within the highway right of way and immediately take appropriate action to eliminate and prevent the dust.
- 9) The utility owner shall not use permanent paint for marking within the highway right of way. The utility owner shall not place any markings on bridges or highway structures.
- 10) The utility owner shall backfill excavated areas with the excavated or equivalent/suitable material and outlets shall be provided for entrapped water, to avoid ponding or excess sub-base saturation.
- 11) The utility owner shall provide proper protection for any excavated areas that are to remain open when work is not being performed.
- 12) The utility owner shall not use the highway right of way as a material storage area or for maintenance of vehicles or parking of equipment and/or vehicles.
- 13) The utility owner shall not perform blasting within the highway right of way unless specifically approved by the District Engineer.
- 14) The utility owner shall utilize an approved identification wrap of detectable tape or wire on all non-metallic buried facilities installed within the highway right of way either parallel to or crossing the roadway in order that the facility can be located by metal locators or other suitable devices.
- 15) The utility owner shall protect existing right of way monuments from damage, immediately notify the District Engineer if a monument is damaged, and provide for a Registered Professional Land Surveyor to re-establish any monuments or

markers that are disturbed during the work to the satisfaction of the District Engineer.

- 16) The utility owner may only remove the control of access fence when approved by the District Engineer. When removal is allowed, the fence must be reinstalled as soon as possible and to the satisfaction of the District Engineer.
- 17) The utility owner shall comply with the current edition of AASHTO policy set forth in “A Policy on the Accommodation of Utilities within Freeway Right of way” in the installation and maintenance of utility facilities on both fully and partially controlled access facilities.
- 18) The utility owner shall not service utilities installed solely for operating freeway facilities directly from through traffic lanes or ramps, and the utility owner shall not create a hazard or interfere with the safe and free movement of traffic on the freeway during such utility access and maintenance.
- 19) The utility owner shall keep the area disturbed by utility construction, or maintenance, to a minimum. The utility owner shall restore all highway right of way to as good or better condition than before. Restoration methods shall conform to the AHTD’s standard specifications.
- 20) The utility owner shall be responsible for maintaining flow in and restore the grades on any drainage ditches disturbed by their work. Maintenance and restoration work shall be completed to the satisfaction of the District Engineer.
- 21) The utility owner shall avoid disturbing existing highway drainage pipes, inlets, and other structures. Any structures disturbed shall be restored to the satisfaction of the District Engineer.
- 22) The utility owner shall be responsible for developing and implementing any Storm Water Pollution Prevention Plan (SWPPP) and obtaining a National Pollutant Discharge Elimination System (NPDES) Permit from the Arkansas Department of Environmental Quality (ADEQ) necessitated by their work. The utility owner shall indicate on the plans whether or not a SWPPP was prepared. If a SWPPP was prepared, the utility owner shall indicate if the project is

permitted as an Automatic Coverage Site or is a Large Construction Site. If a Notice of Termination (NOT) is furnished to ADEQ when the work is completed, the utility owner shall provide a copy to the District Engineer.

- 23) The utility owner shall ensure that on-going work and completed work complies with the Americans with Disabilities Act.
- 24) The utility owner shall ensure that all work is conducted in a manner to accommodate and protect pedestrians.
- 25) The utility owner shall not begin work on any buried utility line crossing under a highway bridge until all material and equipment are available for immediate use. When the work is started, it must be completed as soon as practicable. Trenches under highway bridges shall not be left open when work is not being performed.
- 26) The utility owner shall be responsible for placement of their longitudinal lines in a manner to allow placement of other parallel utility lines. If longitudinal lines are not installed parallel to right of way lines and other utilities, the AHTD may require their realignment to facilitate placement of other utilities.
- 27) The utility owner shall restore any rock or concrete riprap disturbed by their operation as soon as practicable. The riprap shall be restored to equal or better condition to the satisfaction of the District Engineer.

## **2.6 MEDIANS AND FRONTAGE ROADS**

- 1) No utility work shall be performed in the median of any highway without prior approval of the AHTD. All work must be accomplished in accordance with any special conditions required by the District Engineer.
- 2) Longitudinal utility installations will not be allowed in medians.
- 3) Longitudinal installations of underground utilities will not normally be allowed in the area between the frontage road and main lanes. Exceptions may be considered upon recommendation of the District Engineer based on extenuating circumstances and where a frontage road is widely separated from



the main lanes, provided there is sufficient clear zone width from the edges of both traveled ways.

- 4) Poles, guys, or other related facilities shall not be located in a highway median or between the main lanes and frontage roads. Exceptions may be considered, upon the recommendation of the District Engineer, for crossings of wide medians and where a frontage road is widely separated from the main lanes, provided there is sufficient clear zone width from the edges of both traveled ways.

### **3 UNDERGROUND INSTALLATIONS**

#### **3.1 CROSSINGS**

##### **A. GENERAL**

- 1) Crossings may be encased or uncased dependent upon the needs and conditions identified by the type of highway facility, utility type, utility owner, or the AHTD.
- 2) The AHTD encourages, and will require when determined necessary by the District Engineer, utility owners to extend encasements from right of way line to right of way line.
- 3) Crossings shall be avoided at deep cuts, bridge footings, retaining walls, cross drains, or at any other location where attaining the minimum depth of cover as required by this Policy would be difficult.
- 4) Crossings shall be perpendicular to the traffic lanes of the highway where practicable. Utility owners shall submit justification, satisfactory to the AHTD, for any utility crossing not perpendicular to the highway alignment.

##### **B. CROSSING METHODS**

- 1) Crossings may involve boring, tunneling, or open cut depending on the highway and conditions.
- 2) Boring shall be by the directional bore method.
- 3) Dry bores shall be conducted in a manner consistent with industry accepted practices that minimize annular voids and over-breaks and protect the integrity of ground cover, surfaces and structures. In no case, shall overbore exceed 5 percent of the pipe diameter. The use of water under pressure greater than 10 pounds per square inch to jet a hole ahead of the bit is not permitted.
- 4) Wet boring is not allowed.
- 5) Bore pits shall be placed outside the highway right of way when practical, otherwise bore pits shall be placed on the edge of the highway right of way as far from the outer edge of the shoulder as possible.

- 6) Bore pits shall be located and constructed in such a manner, as to not interfere with footings of highway structures, safe roadside clearance, pedestrian passage, or traffic operations. If necessary, shoring shall be utilized.
- 7) Excavation for bore pits shall not intrude into the flow line of parallel ditches or the slope of embankment sections.
- 8) Permanent crossings of the highway through drainage structures (box or pipe culverts) are not permitted.

### **C. ENCASED CROSSINGS**

- 1) Encasements shall be designed to support the load of the highway and superimposed loads thereon and, as a minimum, shall equal the structural requirements for highway drainage facilities. Encasements shall be composed of materials of satisfactory durability under conditions to which they may be subjected.
- 2) Encasements shall have a minimum cover of forty-eight (48) inches measured vertically from the flow line of parallel ditches or sixty (60) inches measured vertically from the highway surface; whichever provides the greater cover.
- 3) On non-controlled access highways, encasements should extend from right of way line to right of way line, as practical, and may be required by the District Engineer in some instances. As a minimum, encasements shall extend six (6) feet beyond the toe of the slope in any embankment section, the flow line of any parallel ditches, or back of any curb as applicable for the highway section.
- 4) Encasement shall be provided under medians and the area between frontage roads and the main lanes.
- 5) Encased crossings of partially controlled or fully controlled access highways shall be encased the full width of the control of access.
- 6) All crossings involving frontage roads shall be encased between the control of access and frontage road and the pipe shall extend a minimum of six (6) feet beyond the toe of the slope in any embankment section, the flow line of any

parallel ditch, or the back of any curb as applicable on the side of the frontage road opposite the main lanes.

#### **D. UNCASED CROSSINGS**

- 1) Uncased carrier pipe shall provide sufficient strength to withstand the internal design pressure and the dead and live loads of the pavement structure and traffic. Additional protective measures should include:
  - a) Increased wall thickness/higher strength material
  - b) Adequate coating and wrapping
  - c) Radiograph testing of welds
  - d) Hydrostatic testing
  - e) Cathodic protection
  - f) Other measures as required by 49 CFR, Part 192, or Part 195
- 2) The minimum cover over the uncased carrier pipe shall be forty-eight (48) inches measured vertically from the flow line of parallel ditches or sixty (60) inches measured vertically from the highway surface, whichever provides the greater cover.
- 3) When existing underground facilities are permitted to remain in place, suitable bridging, concrete slabs, or other appropriate measures shall be used for protection, when by reason of shallow bury the facility may be vulnerable to damage from highway construction or maintenance operations.

#### **E. OPEN CUT OF PAVED SURFACES**

Open cutting of paved highways is not permitted except under certain circumstances. Conditions where open cuts of paved highways may be considered are:

- a. Utility relocations related to a highway reconstruction project.
- b. Urban highways where longitudinal lines are located under the pavement.
- c. Crossings of gravel highways.

- d. When the District Engineer determines that boring is not possible or feasible.

## **F. TEMPORARY CROSSINGS**

- 1) The placement of a temporary line to cross a highway right of way shall be permitted through an encasement under the roadway installed in accordance with this Policy, or it may be placed through an existing bridge opening or through an existing drainage structure with a minimum of twenty (20) feet of clear waterway opening if approved by the District Engineer.
- 2) An exception may be granted to place a temporary line through an existing drainage structure with less than twenty (20) feet of clear waterway opening providing a drainage analysis is made by a qualified individual and submitted by the utility owner. The decision whether to allow the use of the drainage structure for a temporary crossing will be made by the AHTD based on the impact of the drainage analysis.
- 3) Regardless of size, if the AHTD allows the use of any existing bridge opening or highway drainage structure for the placement of a temporary line, the utility owner will be required to assume all responsibility for future damages caused by the placement of the line.

## **3.2 LONGITUDINAL INSTALLATIONS**

- 1) Underground utilities installed parallel to the pavement should be installed at/or adjacent to the right of way to minimize interference with highway operations.
- 2) Underground utilities, such as power cable, telephone cable, water, sewer, and gas shall be installed within the outer ten (10) feet of the right of way. Placement of utility lines more than ten (10) feet from the right of way line may be considered upon recommendation by the District Engineer based on extenuating conditions and approval by the Right of Way Division Head. However, longitudinal installations shall not be within the clear zone or ditch lines of the roadway.

- 3) Longitudinal utilities shall be located on uniform alignment as near as practicable to the right of way line and/or parallel with utility lines and outside the clear zone.
- 4) Longitudinal utilities shall have a minimum depth of cover of thirty (30) inches measured vertically over the utility line.
- 5) Longitudinal utilities may be installed by trenching, plowing, or boring. Joint trenching or plowing of underground facilities is encouraged.
- 6) Trenches normally should have vertical sides where soil and depth conditions permit, and should have a maximum width of the outside diameter of the line, pipe or conduit plus two (2) feet. Adequate measures must be taken to prevent cave-ins.
- 7) Backfill shall be compacted to densities equal to that of the surrounding soil.
- 8) Grade on all highway drainage ditches must be maintained, and erosion control provided where necessary, as specified on the plans or as required by the District Engineer. Aggregate, sod or surfacing shall be replaced or restored to its original or equivalent condition to the satisfaction of the AHTD.
- 9) On partially controlled access highways, individual service connections will not be permitted unless no other reasonable alternatives exist.
- 10) On fully controlled access highways, longitudinal installations shall not be permitted with the exception of fiber optic telecommunication lines installed under a Shared Resource Agreement.
- 11) Markers bearing the name of the utility owner must be placed at the right of way line at no greater than 1,000 foot intervals for the full length of the installation.

### **3.3 APPURTENANCES**

- 1) Appurtenances shall be limited to those necessary for installation and maintenance of underground lines.

- 2) All above ground appurtenances, including pedestals, manholes, vents, drains, rigid markers, valve pits, and regulator pits, shall be located outside the clear zone and as close to the right of way line as possible.
- 3) Service meters, master meters, cabinets, meter pits, pressure reducers, lift stations, pad mounted transformers, sprinkler pits, etc. shall not be located within the highway right of way. Meters shall be located on the same side of the highway as the customer being served.
- 4) Utility accesses and valve covers for access to buried utilities shall be located outside the shoulder of the highway.
- 5) Manholes, valve boxes, valve pits, etc. shall be installed so that their uppermost surfaces are flush with the adjacent undisturbed surface and shall have sufficient structural capacity to withstand vehicular traffic.
- 6) Manholes shall not be placed or allowed to remain in the pavement or shoulders of high volume roadways. Exceptions may be allowed at those locations on non-controlled access highways in urban areas where necessary for access to existing lines allowed to remain in place under existing or proposed roadways. Manholes may be placed or allowed to remain in the pavement or shoulders of low volume roadways in urban areas provided measures are taken to minimize such installations. Placement of manhole installations should be avoided in the pavement at highway intersections. Manholes shall not be located in a wheel path.
- 7) Manholes/handholes vary as to size and shape depending on the type of utility they serve. To conserve space, their dimensions should be the minimum acceptable by good engineering and safety standards. In general, the only equipment to be installed in manholes/handholes located on highway right of way is that which is essential to the normal operation of the utility, such as cable splices, relays, etc. Other equipment, pumps, etc. should be located outside the limits of the highway right of way. All manhole/handhole covers shall be flush with the ground or pavement surface, whichever is applicable. All

manholes/handholes shall be designed with sufficient structural capacity for vehicular loading. Where soil conditions require, outside forms shall be used.

### **3.4 BEDDING AND BACKFILL**

- 1) Bedding and backfill shall consist of fine granular material free of lumps, clods, stones or other debris.
- 2) Backfill shall be compacted by mechanical tamping with controlled moisture.
- 3) Bedding shall be placed to a depth of six (6) inches or half the diameter of the pipe whichever is the least.
- 4) Backfill for bore pits shall be thoroughly compacted to match grade and density equal to or exceeding the surrounding undisturbed soil.
- 5) Consolidation of backfill by saturation or ponding with water shall not be permitted.

### **3.5 TYPES OF UNDERGROUND UTILITIES**

This subsection provides additional design and installation requirements for the specific types of underground utilities.

#### **A. GAS AND LIQUID PETROLEUM PIPELINES**

- 1) Only distribution lines providing natural gas service are permitted longitudinally within the highway right of way.
- 2) Crossings for gas or liquid petroleum pipelines may be encased or uncased.
- 3) One or more vents shall be provided for each encasement pipe or series of encasement pipes. For encasement pipes longer than 150 feet, vents shall be provided at both ends. On shorter encasement pipe, a vent should be located at the higher end with a marker placed at the lower end. Vents shall be placed at the right of way line immediately above the pipeline, situated to not interfere with highway maintenance or be concealed by vegetation. Ownership of the lines shall be clearly shown on a sign attached to the vent pipe.



- 4) Markers, bearing the name of the utility owner, shall be placed at each right of way line where gas or petroleum lines crosses except where marked by a vent.

## **B. WATERLINES**

Only water service lines (including crossings) owned and maintained by the utility owner shall be installed within the highway right of way.

- 1) Crossings for waterlines, including services, must be encased.
- 2) Markers, bearing the name of the utility owner, shall be placed at each right of way line where a waterline two (2) inches or larger in diameter crosses.
- 3) In open shoulder areas, fire hydrants or blow-off valves shall be placed as near to the right of way line as practical, but shall not be placed in the roadway cross section.
- 4) In curbed roadway areas, fire hydrants shall be placed as near to the right of way line as practical but shall not be placed closer than five (5) feet to the curb.

## **C. SANITARY SEWER LINES**

Only sewer lines (including crossings) owned and maintained by the utility owner shall be installed within the highway right of way.

- 1) Sewer lines operated under pressure (force mains) and those composed of materials not conforming to material or depth of cover requirements of this Policy shall be encased.
- 2) Markers, bearing the name of the utility owner, shall be placed at each right of way line where a sewer line six (6) inches or larger in diameter crosses.
- 3) Gravity flow sewer lines installed by open trench across proposed highway construction areas, or lines bored across existing highways will not require encasement if other conditions of this Policy are met.
- 4) Manholes for sewer line crossings should be placed outside the highway right of way. If placement outside the highway right of way is not practical, manholes may be placed in the highway right of way provided they are located at or near the right of way line and out of drainage ditches.

**D. UNDERGROUND ELECTRIC LINES**

- 1) Underground electric line crossings shall be encased. An existing facility may be allowed to remain in place under roadways if suitable bridging, concrete slabs, extra depth or other appropriate measures are used for protection.
- 2) Markers, bearing the name of the utility owner, shall be placed at each right of way line where underground electric lines cross, regardless of size.
- 3) Vaults for underground electric facilities should be placed outside the highway right of way, if practical. If placement outside the highway right of way is not practical, the following shall apply:
  - a) Only straight-line vaults shall be allowed.
  - b) Vault dimensions shall be limited to that necessary for equipment and to ensure safety standards for maintenance personnel.
  - c) The top of the vault shall be buried a minimum of four (4) feet below the ground surface.

**E. UNDERGROUND COMMUNICATIONS LINES**

- 1) Underground communications line crossings may be uncased unless the District Engineer determines encasement or other suitable protection is necessary for the protection of the highway facility under the following conditions:
  - a) The minimum depth cannot be attained.
  - b) The installation is near bridge or other highway structures.
  - c) The installation is near other hazards.
- 2) When underground communications line crossings are installed by boring, the hole shall be approximately the same diameter as the line and encasement will not be required. If a hole approximately the same diameter as the line cannot be bored, an encasement shall be provided. The void remaining between the line or encasement and the outer limit of the bored hole shall be filled with a

material suitable to prevent settlement of any part of the highway facility over the line.

- 3) Markers, bearing the name of the utility owner, shall be placed at each right of way line where a carrier line or fiber optic line crosses.

**F. FIBER OPTIC TELECOMMUNICATION LINES WITHIN THE CONTROL OF ACCESS**

- 1) Fiber optic telecommunication lines may be installed longitudinally within the control of access on fully controlled access highways only by execution of a Shared Resource Agreement between the utility owner and the AHTD. All conditions for longitudinal installations elsewhere in this Policy shall apply.
- 2) The utility owner shall not access the work area directly from the main lanes and ramps, except at locations specifically approved by the District Engineer.
- 3) At locations where the control of access does not coincide with the right of way line, fiber optic telecommunication lines may be installed parallel to the control of access line with the same requirements as for placement along the right of way line.
- 4) Fiber optic telecommunication lines shall not be installed parallel to the main lanes between the main lanes and ramps.

#### **4 OVERHEAD INSTALLATIONS**

- 1) Overhead utility line supports (poles) shall be located within one (1) foot wherever possible and no more than five (5) feet from the right of way line.
- 2) Longitudinal utilities shall be located on uniform alignment as near as practicable to the right of way line and/or parallel to utility lines and outside the clear zone. The joint use of pole lines is encouraged and may be required at some locations.
- 3) The minimum vertical clearance for overhead communication and power lines above all driving surfaces within the highway right of way shall not be less than eighteen (18) feet. Greater height may be required by the National Electric Safety Code or any other regulatory agencies having jurisdiction.
- 4) Supports for longitudinal installations shall be limited to single pole construction within the right of way and shall not exceed three (3) feet in diameter.
- 5) On partially controlled access highways, individual service connections will not be permitted unless no other reasonable alternatives exist.
- 6) The angle of crossing for overhead utility crossings shall be as perpendicular to the highway alignment as practicable.
- 7) For overhead utility crossings on highways where access is not controlled, all supporting structures and above ground appurtenances shall be located outside the clear zone.
- 8) For overhead utility crossings on highways with partial and fully controlled access, all supporting structures and above ground appurtenances shall be located outside the highway right of way. Installation and maintenance shall be from frontage roads, crossroads, or streets, whenever practicable, or otherwise from outside the control of access line and preferably outside the highway right of way.
- 9) Overhead power and communication line crossings above or below the decks of bridges or grade separation structures should be avoided. A crossing may be

permitted if alternatives to the crossing are not feasible and adequate minimum horizontal and/or vertical clearances, as determined acceptable by the District Engineer, are provided to ensure adequate safety for construction and maintenance operations.

- 10) Guy wires installed within the highway right of way shall be held to a minimum and should normally be in alignment with the support pole line. Push braces and guy wires shall not be installed from the pole toward the roadway unless specifically approved by the District Engineer.

## 5 BRIDGES AND HIGHWAY STRUCTURES

### 5.1 GENERAL

- 1) The attachment of utility lines to bridge or highway structures is discouraged, as they could materially affect structural characteristics, the safe operation of traffic, the efficiency of maintenance, and the appearance of the structure. Therefore, when it is feasible and reasonable to locate elsewhere, attachment to a bridge or highway structure will not be allowed.
- 2) When it is not feasible or reasonable to locate utility lines elsewhere other than attached to a bridge or highway structure, the utility owner may request permission from AHTD to allow the attachment of the utility.
- 3) If the AHTD determines the bridge or highway structure is not of adequate strength to carry the increased weight or forces resulting from the utility attachment with safety, permission will not be granted.
- 4) When the added load of a utility attachment to an existing or proposed bridge or highway structure is sufficient to require an increase in the strength of the structure or the use of more costly materials or type of construction, the additional cost shall be paid by the utility owner.
- 5) Utility facilities shall be attached to bridges in accordance with the current guidelines established by the AHTD Bridge Division available on the AHTD website, <http://www.arkansashighways.com>.
- 6) The AHTD assumes no responsibility to or for the utility owner in any respect in connection with a bridge or highway structure attachment. The AHTD may cancel any permit for bridge or highway structure attachment for cause, allowing the utility owner a reasonable time to make arrangements to continue utility service. The utility owner shall assume all costs associated with such relocation and/or removal.
- 7) Electrical transmission lines (35 KV or higher) will not be permitted on any bridge or highway structure.

- 8) No vehicles weighing in excess of the legal load, or the load limit posted, and no off road hauling equipment, cranes, or other non-legal highway vehicles or equipment will be allowed to cross or be placed on any bridge deck without the submittal of an engineering analysis for review by AHTD.
- 9) No materials will be permitted to be stored or stockpiled on any bridge deck without the submittal of an engineering analysis for review by the AHTD.
- 10) Each submitted engineering analysis shall be prepared by a Registered Professional Engineer who shall certify the adequacy of all components for the anticipated loads. Inspection records and, when available, design drawings may be obtained from the AHTD for use in the analysis of the structure.

## **5.2 REQUEST GUIDELINES FOR BRIDGE ATTACHMENTS**

- 1) When other arrangements for utility lines to span an obstruction are not feasible, the AHTD may consider an attachment to a bridge or highway structure. Each attachment will be considered on an individual basis and permission to attach will not be considered as establishing a precedent for granting of subsequent requests. The following guides are established for attachment of utilities to bridges or highway structures:
  - a) Sufficient details and information about the proposed attachment shall be furnished to allow a stress analysis to determine the effect of the added load on the structure. Other details of the proposed attachment as they affect safety and maintenance should also be provided.
  - b) When a pipeline is encased, the encasement pipe shall be effectively opened or vented at each end to prevent possible build up of pressure and to detect leakage of gases or fluids.
  - c) Shut-off valves, preferably automatic, shall be installed in lines at or near the ends of structures unless segments of the lines can be isolated by other sectionalizing devices within a reasonable distance.
  - d) When an encasement is not provided for a pipeline, additional protective measures shall be taken, such as employing a higher factor of safety in the

design, construction and testing of the pipeline than would normally be required for cased construction.

- e) Communication and electric power lines shall be suitably insulated, grounded and carried in protective conduit or pipe from the point of exit from the ground to re-entry. The cable shall be carried to a manhole located beyond the backwall of the structure.
- f) Carrier and encasement pipe for other utilities should be suitably insulated from electric power line attachments.
- g) All attachments will be made in such manner as not to interfere with the stream flow, highway traffic or routine maintenance.
- h) The utility owner shall provide for the lineal expansion and contraction of its facility due to temperature differentials between the utility facility and the structure.
- i) Utility mountings shall be of a type, design, and material that will effectively muffle vibration noise.
- j) Any maintenance, servicing or repair of utility lines shall be the responsibility of the utility owner.
- k) An engineering analysis of the load effects of an attachment on the structure shall be submitted when requested.
- l) When a utility tunnel within a bridge or highway structure is utilized, mutually hazardous transmittants, such as fuels and electric energy, must be isolated by compartments or separate encasements.



## **6 UTILITY PERMITS**

### **6.1 GENERAL**

With the exception of District Permits described in Section 6.3.A, the Utilities Section, in cooperation with the District Engineer, is responsible to make all arrangements for the accommodation of utility facilities within AHTD highway right of way. Verbal approvals by the District Engineer will be considered only for emergency or extreme hardship situations.

The AHTD issues three types of utility permits to allow the installation, relocation, maintenance or removal of utility facilities on AHTD highway right of way or property:

- District Utility Permits
- AHTD Utility Permits
- Vegetation Control Permits

### **6.2 PERMIT APPLICATION AND APPROVAL PROCEDURES**

Regardless of the permit type, utility owners are required to secure a permit prior to the commencement of work.

- 1) A written permit application, including plans, shall be submitted to the appropriate District Engineer. The application and plans shall include, at a minimum, the following:
  - a) Two (2) sets of plans with crossing profiles, when applicable. Plans printed on 11x17 sheets are preferable. Plans may be submitted in electronic form utilizing portable document format (PDF), if acceptable to the District Engineer.
  - b) Type and description of the facility.
  - c) Location with reference to centerline stations from AHTD plans or other well-known permanent landmarks.
  - d) The measured distance from the right of way line, the centerline, ditch lines, toe of slopes, and the edge of pavement of the highway.

- e) A traffic control plan.
- 2) The utility owner shall also comply with the provisions of Section 6.4 or 6.5 of this Policy.
- 3) All permits shall constitute a binding contract; therefore, proxy applications, verbal, or unsigned requests will not be valid.

### **6.3 TYPES OF PERMITS**

#### **A. DISTRICT UTILITY PERMIT**

- 1) The utility owner may undertake the following work under a District Utility Permit:
  - Buried highway crossings, excluding those under bridges, of non-interstate primary and secondary highways that do not involve a pavement cut.
  - Aerial crossings of non-interstate highways.
  - Buried or aerial longitudinal installations up to one-quarter ( $\frac{1}{4}$ ) mile on non-interstate highways.
  - Spot repairs of utility facilities, including emergency repairs. Emergency situations may include pavement cuts.
  - Minor work, including pole replacements, pedestal installations, meter taps not requiring pavement cuts, routine maintenance, etc.
  - Temporary crossings as described in Section 7.2.
- 2) Under the District Utility Permit, the District Engineer is responsible to:
  - Review plans to ensure proposed utility facilities will not interfere with existing or planned highway facilities or with highway maintenance and operation.
  - In the absence of a standing bond as described in Section 6.4, determine the amount of the deposit or bond required.
  - Approve the permit.

- Provide inspections as needed to assure that utility installations are done in accordance with the approved permit.
  - Make final inspection of the work area restoration and release the permit.
- 3) A District Utility Permit is valid for a period of four (4) months from the date of issue.

## **B. AHTD UTILITY PERMITS**

- 1) Any utility work not addressed in Section 6.3.A. will be considered under an AHTD Utility Permit.
- 2) Under the AHTD Utility Permit the District Engineer is responsible to:
- Review plans to ensure proposed utility facilities will not interfere with existing or planned highway facilities or with highway maintenance and operation.
  - In the absence of a standing bond as described in Section 6.4, determine the amount of the deposit or bond required.
  - Submit the permit to the Utilities Section for review and approval.
  - Provide inspections as needed to assure that utility installations are done in accordance with the approved permit.
  - Make final inspection of the work area restoration and recommend release of the permit and deposit or bond, when applicable.
- 3) An AHTD Utility Permit is valid for a period of twelve (12) months from the date of issue.

## **C. VEGETATION CONTROL PERMITS**

The Utilities Section, in cooperation with the District, the Maintenance Division, and the Environmental Division, is responsible to make all arrangements for the mechanical and chemical vegetation removal on AHTD highway right of way.

Utility owners may obtain permits to remove vegetation by mechanical or chemical methods subject to the following conditions:

- Vegetation control is necessary for the safe and continuous operation of utility facilities within the highway right of way. Vegetation control may be applicable to either underground or overhead utility installations including appurtenances.
- Vegetation control will not be allowed solely to provide visibility to utility facilities. The limits of trimming or removal shall be held to the minimum necessary for maintenance access, to provide for the continued operations of the facility, and to meet governing laws and regulations.
- The utility owner shall perform vegetation control on a periodic basis to preserve the aesthetics of the area and prevent excessive overgrowth.
- The utility owner shall obtain a permit each time vegetation control is to be undertaken.

A Vegetation Control Permit is valid for a period of four (4) months from the date of issue.

In addition to all other requirements and conditions of this Policy, the following shall also apply to vegetation control permits.

### **1) Mechanical Vegetation Control**

- a) The utility owner shall trim trees in accordance with normal horticultural standards.
- b) The utility owner shall not remove healthy trees having trunks six (6) inches or more in diameter measured twelve (12) inches above the ground without specific approval of the District Engineer.
- c) The utility owner shall remove cut vegetation and debris from the highway right of way and shall be responsible for the proper disposal of all cut vegetation and debris.

- d) The utility owner shall not burn or bury the cut vegetation and debris within the highway right of way.
- e) The utility owner shall cut stumps flush with the ground or grind the stumps to remove them.
- f) The utility owner shall re-vegetate areas of bare ground resulting from their operations.
- g) The utility owner shall be responsible for developing and implementing any Storm Water Pollution Prevention Plan (SWPPP) and obtaining a National Pollutant Discharge Elimination System (NPDES) Permit from the Arkansas Department of Environmental Quality (ADEQ) necessitated by their work. The utility owner shall indicate on the plans whether or not a SWPPP was prepared. If a SWPPP was prepared, the owner shall indicate if the project is permitted as Automatic Coverage Site or is a Large Construction Site. If a Notice of Termination (NOT) is furnished to ADEQ when the work is completed, the utility owner shall provide a copy to the District Engineer.
- h) The utility owner shall assume full responsibility for safeguarding all utilities in the work area during the time of construction and shall notify Arkansas One-Call and have utility facilities located prior to beginning work that would disturb soil.

## **2) Chemical Vegetation Control**

- a) The utility owner shall ensure that all requirements of the Arkansas State Plant Board are met in the use and application of chemicals.
- b) The utility owner shall ensure that all personnel are licensed or /certified by the Arkansas State Plant Board for the type of herbicide application being utilized.
- c) The utility owner may use backpack sprayers or other spot application methods within the highway right of way. Broadcast spraying is not allowed.

- d) The utility owner shall cut and trim over-grown vegetation prior to applying chemicals to avoid dead plants taller than six (6) inches remaining. If dead plants taller than six (6) inches result from the chemical application, the utility owner shall immediately trim the plants.
- e) The utility owner shall take precautions to avoid overspray from the operation. If overspray results in dead limbs or plants, the utility owner shall use mechanical methods to cut or trim the plants.
- f) The utility owner shall utilize only those chemicals, rates of applications, and methods of application approved by the AHTD.
- g) The utility owner shall be responsible for developing and implementing any Storm Water Pollution Prevention Plan (SWPPP) and obtaining a National Pollutant Discharge Elimination System (NPDES) Permit from the Arkansas Department of Environmental Quality (ADEQ) necessitated by their work. The utility owner shall indicate on the plans whether or not a SWPPP was prepared. If a SWPPP was prepared, the owner shall indicate if the project is permitted as Automatic Coverage Site or is a Large Construction Site. If a Notice of Termination (NOT) is furnished to ADEQ when the work is completed, the utility owner shall provide a copy to the District Engineer.
- h) The utility owner shall not use chemicals within 100 yards of any stream, pond, lake, or garden or within 25 yards of any human habitation or livestock feed lot.
- i) The utility owner shall not utilize chemicals in areas where the AHTD has established or is establishing vegetative cover for aesthetic or erosion control purposes.

#### **6.4 STANDING BOND**

The AHTD encourages utility owners to more effectively carry out the installation, relocation, maintenance or removal of their utility facilities on AHTD right of way or property, including vegetation control, by maintaining a standing bond based on the number of customers served in the State of Arkansas. The standing bond will

be used by the AHTD in restoring the highway right of way or property to its former condition if the utility owner fails to do so. The standing bond must be provided in the name of the utility owner.

The following standing bond amounts shall apply:

<b>Number of Arkansas customers</b>	<b>Standing bond required</b>
Over 250,000	\$250,000
100,000 to 249,999	\$100,000
50,000 to 99,999	\$50,000
10,000 to 49,999	\$25,000
Under 10,000	\$10,000

## **6.5 DEPOSIT OR BOND**

In the absence of a standing bond as described in Section 6.4, an individual deposit or bond to guarantee restoration of the highway right of way or property is required prior to the issuance of a permit. The District Engineer will determine the amount of the deposit or bond required. The deposit or bond will be used by the AHTD in restoring the highway right of way or property to its former condition if the utility owner fails to do so. The deposit or bond must be provided in the name of the utility owner.

## **6.6 UTILITY OWNER RESPONSIBILITY**

Regardless of the permit type, the utility owner shall do the following when performing any work on the highway right of way:

- Notify the District Engineer four (4) AHTD business days prior to beginning work.
- Maintain a copy of the Utility Permit on the job site throughout the work period.
- Ensure that work is accomplished in accordance with the approved permit and, unless the District Engineer gives prior approval, any installation, which

deviates from the approved permit, is subject to removal from the highway right of way.

- Notify the District Engineer upon completion of the installation for a final inspection and release of the deposit or bond.

Violation of these requirements may result in the AHTD ordering work to be stopped or forfeiture of bond.

If at any time a change or improvement in the highway necessitates a relocation or removal of the facility installed under a permit, it shall be at the expense of the owner.

### **6.7 ACCEPTANCE OF PERMIT**

Work performed under a permit shall constitute full acceptance of all applicable requirements, laws, rules, regulations and the specific terms and provisions as set forth in, or attached to, the permit.

### **6.8 TRANSFER OF OWNERSHIP**

If a change in ownership takes place, the new owners shall give written notice of such change to the Utilities Section within ninety (90) days.

### **6.9 SAFETY**

By undertaking work within the highway right of way, the utility owner agrees to the applicable requirements and conditions in Section 2.4.

### **6.10 WORKING CONDITIONS**

By undertaking work within the highway right of way, the utility owner agrees to the applicable requirements and conditions in Section 2.5.

### **6.11 EMERGENCY CONDITIONS**

- 1) In the event of conditions where immediate action by the utility owner is necessary for the protection of persons or property, or to minimize damage to or loss of the utility owner's facilities or highway property, a permit is not required prior to the commencement of work.



- 2) The utility owner, at its own responsibility and risk, may undertake the necessary repairs and shall notify the District Engineer and the Utilities Section of such work as soon as practicable but no later than the next AHTD business day.
- 3) If the situation necessitates closure of traffic lanes, the utility owner shall immediately notify the office of the District Engineer.
- 4) The utility owner shall not undertake chemical vegetation control on an emergency basis.

### **6.12 RIGHT TO REVOKE**

The Director of Highways and Transportation is authorized to revoke or annul a permit or agreement, subject to giving the utility owner reasonable notice.

Justifications for revocation include, but are not limited to the following:

- Failure to comply with the provisions of this Policy.
- Failure to comply with the terms and conditions of the permit or agreement.
- If the utility occupancy becomes an interference to the use of the highway right of way for highway purposes.

## **7 MISCELLANEOUS**

### **7.1 PRIVATELY OWNED FACILITIES**

Privately owned facilities are lines that convey or transmit communications, electricity, gas, oil, water, or any other similar commodities, but are devoted exclusively to private use. This includes privately owned lines from gas and oil wells, lines owned by oil companies within refinery and oil storage complexes, irrigation lines and any other private purpose lines or service lines owned by individuals or companies.

#### **A. Permanent Installations**

- 1) Longitudinal installations of permanent private lines are not allowed.
- 2) Permit applications are required for permanent private crossings, and all private installations allowed to cross State highway right of way shall follow the applicable requirements of this Policy.

#### **B. Temporary Installations**

- 1) Longitudinal installations of temporary private lines are not allowed.
- 2) The placement of a temporary line to cross a highway right of way shall be permitted through an encasement under the roadway installed in accordance with this Policy, or it may be placed through an existing drainage structure with a minimum of twenty (20) feet of clear waterway opening if approved by the District Engineer.
- 3) An exception may be granted to place a temporary line through an existing drainage structure with less than twenty (20) feet of clear waterway opening providing a drainage analysis is made by a qualified individual and submitted by the owner. The decision whether to allow the use of the drainage structure for a temporary crossing will be made by the AHTD based on the impact of the drainage analysis.
- 4) Regardless of size, if the AHTD allows the use of any existing bridge opening or highway drainage structure for the placement of a temporary line, the utility

owner will be required to assume all responsibility for any damages or violations of state or federal environmental law or regulations caused by the placement of the line.

## **7.2 UTILITIES NOT SPECIFICALLY COVERED**

Various types of utilities not specifically covered herein will be considered within the provisions of this Policy in accordance with the nature of the utility.

It shall be a general practice to consider all lines carrying caustic, flammable, or explosive materials under the provisions for high-pressure gas and liquid fuel lines.

## **7.3 HIGHWAY LIGHTING**

Requests for permits to install or renovate highway lighting systems by electric utility owners or municipalities shall be treated as special cases. Each request shall be submitted to the District Engineer for further review and recommendation as to acceptability of the design, adequacy of lighting, and safety factors. In addition, the permit must meet the other applicable provisions of this Policy.

## **7.4 CORRECTION OF HAZARDOUS INSTALLATIONS**

When it becomes evident that an existing utility facility has become a hazard to the safe operation of a highway facility, the AHTD will require the utility owner to correct the condition at the utility owner's expense, regardless of when the hazard was discovered.

## **7.5 ABANDONMENT OF FACILITIES**

If a utility owner abandons any portion of its facilities located on highway right of way, it must notify the AHTD of that status in writing and indicate whether the facility will be removed or abandoned in place. The notification must include a statement certifying that the abandoned facility does not contain, or is not composed of, hazardous or contaminated materials.

- 1) The utility owner shall indicate, on the plans, the location, size, and disposition for all utility facilities being abandoned.

- 2) If a utility owner discontinues use of an above ground facility, the facility shall be entirely removed from the highway right of way within six (6) months after its use is discontinued, unless the AHTD grants written approval for a time extension. All removal costs shall be the responsibility of the utility owner.
- 3) If a utility owner discontinues use of an underground facility but desires to leave it in place on the highway right of way, written approval to do so shall be obtained from the AHTD and a record shall be retained in the utility owner's permanent files in order that such facility may be accurately located in the field. The AHTD may, at its sole discretion, require abandoned and out of service pipes and appurtenant facilities (e.g., manholes, pull boxes, etc.) to be filled in or removed. If so required, the utility owner shall fill in or remove the abandoned facilities within six (6) months after its use is discontinued, unless the AHTD grants written approval of a time extension. All necessary removal and related costs shall be the responsibility of the utility owner.
- 4) If a utility owner discontinues use of a facility on a highway bridge or structure, the facility shall be removed within six (6) months, unless the AHTD grants written approval of a time extension. Any abandoned or out of service facilities that are removed from a bridge must be done so utilizing removal procedures approved by the AHTD. All removal costs shall be the responsibility of the utility owner.
- 5) If the owner fails to remove the abandoned utility facilities the AHTD may do so at the expense of the utility owner.
- 6) Abandonment shall not be construed as a change in ownership of the facility.

## **8 REIMBURSEMENT FOR RELOCATION**

### **8.1 PURPOSE**

To prescribe the policies and procedures for reimbursement of eligible costs associated with the relocation of utility facilities on AHTD highway construction projects, and to authorize the Utilities Section to make all contractual arrangements with utility owners.

### **8.2 AUTHORITY**

The Federal-Aid Policy Guide 23 CFR 645A, as amended and supplemented, is adopted by reference herein with the same force and effect as if recited at length. Determination of reimbursement eligibility pursuant to applicable State Law, Statutory, and Case is generally interpreted by the AHTD's Legal Counsel.

### **8.3 APPLICABILITY**

This policy applies to all utility owners with facilities affected by a highway construction project.

### **8.4 REIMBURSEMENT ELIGIBILITY**

A utility owner will be considered eligible for reimbursement if they have the right of occupancy in the existing location because of holding the fee, an easement or other real property interest, the damaging or taking of which is compensable in eminent domain. The general criteria for determining eligibility for reimbursement for relocation costs shall be applied on the basis of the factual location of the existing utility facility in relation to existing highway right of way.

- 1) Existing utility facilities located on private property, street right of way of any incorporated town or city, county road, dedicated urban development road, and/or private road right of way which were not a part of or on the State Highway System at the time the facilities were installed, shall be considered eligible for reimbursement.
- 2) Utility facilities presently located on existing AHTD highway right of way by permit or unwritten consent of the AHTD are not eligible for reimbursement.

**8.5 RIGHT OF WAY**

- 1) A utility facility located on private right of way or easement (outside the existing highway right of way) is considered to be eligible for reimbursement of the cost of replacement right of way. Copies of an easement or affidavit verifying the utility owner's right of occupancy must be submitted with the relocation proposal.
- 2) There will be no charge to the AHTD for that portion of the utility owner's existing private right of way or easement being transferred to the AHTD for highway purposes.

**8.6 PRELIMINARY ENGINEERING**

- 1) Initial authorization on highway projects is for preliminary engineering by the utility owner's personnel (force account), the cost of which will be included in the subsequent relocation agreement.
- 2) When the utility owner is not adequately staffed with technical personnel or the present workload would be prohibitive to perform the necessary preliminary engineering, a consulting engineer may be employed by the utility owner. If any part of the consultant's entire fee is eligible for reimbursement, the utility owner shall submit a written request to the Utilities Section requesting approval for the use of a Consultant.
- 3) Preliminary engineering costs are reimbursable to the utility owner only to the extent that the existing utility facilities that require adjustment are eligible for reimbursement.
- 4) Additional information regarding the use of consultants for preliminary engineering services is contained in Section 10.

## **9 RELOCATION PROCESS**

### **9.1 AGREEMENTS AND AUTHORIZATIONS**

- 1) After notification by the Utilities Section of an impending highway project, the utility owner is obligated to make the necessary arrangements for planning and accomplishing the relocation work required by the highway construction.
- 2) The utility owner is responsible for the design and integrity of the utility facilities to be installed within highway right of way, in accordance with this policy.
- 3) The utility owner's responsibilities include but are not limited to the following functions:
  - a) Determination of any and all conflicts the existing utility facilities have with the proposed highway construction.
  - b) Preparation of detailed cost estimates and plans providing for the relocation work required to clear the highway construction. This information shall include sufficient detail to provide the Utilities Section a reasonable basis for analysis.
  - c) Determination of whether the work will be accomplished by force account, awarded on a continuing contract or let to contract to the lowest qualified bidder.
  - d) Submission of a complete relocation proposal, including the detailed cost estimate and plans, within the time period specified by the AHTD. The utility owner is expected to submit the relocation proposal within the time period specified so as not to delay or interfere with the schedule for the proposed highway construction.
- 4) In some instances a combination of force account and contract labor may be required. Work normally done for a utility owner by a contractor under an existing continuing contract may be acceptable, provided the established rates are reasonable.

- 5) After the Utilities Section has reviewed and approved the plan information and cost estimate (if applicable), work authorization will be given by one of the following methods:
  - a) Nonreimbursable relocation work order issued when the utility relocation work is 100% nonreimbursable.
  - b) Work Order with Utility Relocation Agreement (Relocation Agreement). If the utility owner's relocation work is reimbursable, or partially reimbursable, the Utilities Section will prepare a Relocation Agreement. The Relocation Agreement may be the lump sum method (confirmation by audit is not required) or the actual cost method (subject to audit because billing will be for actual expenditures).

## **9.2 RELOCATION**

- 1) After issuance of a work order by the Utilities Section, the utility owner is expected to begin the relocation work and exercise due diligence to complete the work within the time periods specified in the work order so as not to delay or interfere with the highway contractor's operation.
- 2) All utility work shall be undertaken and completed in accordance with the approved plans, specifications, Relocation Agreement (if applicable) and approved change orders.
- 3) Changes in the work from that shown in the approved relocation plan must be authorized by the Resident Engineer prior to the implementation of the change in order for the cost to be eligible for reimbursement.
- 4) Utility owners shall notify the Resident Engineer not less than four (4) days prior to starting work in order that observation and inspection of the work may be provided.
- 5) The utility owner shall notify the Resident Engineer on the date the work is completed so that a final inspection by the Resident Engineer may be scheduled.



### **9.3 INSPECTION**

The Resident Engineer is responsible for the administration and inspection of utility relocations. Both reimbursable and nonreimbursable relocation work is subject to inspection by the Resident Engineer to ensure proper installation as approved in each utility's work order. The Resident Engineer has the authority to order the stoppage and/or removal of any work not in compliance with the Relocation Agreement or this Policy.

### **9.4 RELOCATION CHANGE ORDERS**

When a change in the planned adjustments, including quantities or types of materials, proposed location of facilities, or additional work is identified, the utility owner shall inform the Resident Engineer of the reason for the requested change along with a detailed estimate of the revised cost, change in quantities or items to be installed, and plan sheets showing the requested changes.

The Resident Engineer will review the requested change and, if recommended, prepare the appropriate documentation, as necessary.

## **10 UTILITY ENGINEERING BY CONSULTANT**

As noted in Section 8.6 2), a utility owner may be unable to perform preliminary or construction engineering work with their own forces. A consultant engineer may be employed by the utility owner under the following conditions:

- 1) For any part of the consultant's fee to be eligible for reimbursement, the utility owner shall submit a written request to the Utilities Section requesting approval for the use of a consultant.
- 2) Consultant engineering cost is reimbursable only to the extent that the cost to relocate existing facilities is determined to be eligible for reimbursement.
- 3) Consultant engineering fees must be based on actual cost with a fixed amount for profit. However, reimbursement will not be allowed for profit in excess of 12% of the total cost for consultant engineering.
- 4) Reimbursement of preliminary engineering fees may be handled on a lump sum basis when the work is clearly defined and the fee is relatively small. However, a breakdown of the fee is required.
- 5) Construction engineering fees shall be handled on an actual cost basis.

### **10.1 PRELIMINARY ENGINEERING PROCEDURES**

- 1) When the use of a consultant has been approved, the utility owner will be authorized to have the consultant proceed with preparing a preliminary engineering fee estimate and contract. The engineer's fee shall not be based on a percentage of the cost of relocation.
- 2) The preliminary fee estimate, contract documents and the consulting engineer's certification, in the form designated by the AHTD, shall be submitted for Utilities Section approval.
- 3) The Utilities Section will then prepare a Preliminary Engineering Agreement (PE Agreement) to be executed by the AHTD and the utility owner. The consultant will be required to begin and complete the preliminary engineering contractual obligations within a specified number of days.

- 4) Following proper execution of the PE Agreement, the Utilities Section will issue a preliminary engineering work order to the utility owner authorizing the consultant to begin the preliminary engineering of the work encompassing the following:
  - a) Field surveys and investigations, including any and all work to secure the proper information to prepare plans, specifications, cost estimates and necessary easements.
  - b) Preparation of complete and detailed plans of the existing and proposed facilities with an itemized cost estimate for the relocation work.
  - c) Preparation of contract documents and specifications incident to the advertisement of bids. One (1) copy of the specifications is required in the initial submittal.
  - d) Submission of all necessary documents through the utility owner to the Utilities Section and to other agencies having jurisdiction when required.
- 5) After approval of the cost estimate and plans, a Relocation Agreement will be prepared and submitted to the utility owner for execution.
- 6) After receiving the fully executed Relocation Agreement, the Utilities Section will authorize the utility owner to proceed with advertising for bids and/or acquisition of necessary right of way.
- 7) After the bids have been opened, the utility owner will submit one copy of each bid received and the bid tabulation sheet to the Utilities Section with a request for the AHTD's concurrence in award of the contract to the lowest qualified bidder.
- 8) After concurrence, the utility owner shall submit two (2) copies of the executed contract and two (2) sets of the completed specifications to the Utilities Section. After these documents have been approved, the Utilities Section will issue a contract work order to the utility owner.

## **10.2 CONSTRUCTION ENGINEERING PROCEDURES**

Supervision and inspection by the consultant during the construction work will be considered as a part of the Relocation Agreement and reimbursed separately from the PE Agreement. These activities will consist of, but not be limited to, the following:

- 1) Field staking for locations and grades of the relocated work.
- 2) Supervision and inspection of the construction work.
- 3) Preparation and calculation of periodic estimates (if requested).
- 4) Preparation and submission of change orders (if required).
- 5) Coordination with AHTD and utility owner representatives.
- 6) Preparation and submission of billings and one (1) complete set of as-built plans.

## **10.3 ENGINEERING COSTS**

Utility owners utilizing consulting engineers for design or construction engineering services shall comply with the following requirements.

### **1) OVERHEAD RATES**

Overhead rates must be computed in accordance with Federal Acquisition Regulations, 48 CFR 31 and AASHTO Uniform Audit and Accounting Guide for Audits of Architectural and Engineering (A/E) Consulting Firms.

23 CFR Part 645.117(d) states in part, "Overhead and indirect construction costs not charged directly to work order or construction accounts may be allocated to the relocation provided the allocation is made on an equitable basis. All costs included in the allocation shall be eligible for Federal reimbursement, reasonable, actually incurred by the utility, and consistent with the provisions of 48 CFR Part 31."

### **2) PROFIT**

Total profit to be reimbursed for consultant engineering services cannot exceed 12% of the total contract engineering expenditures.

### 3) DIRECT JOB EXPENSE

These types of expenses must be itemized, i.e. mileage, copies, postage, meals, lodging, etc.

- a. **Mileage** – Rate per mile must not exceed current reimbursement rate for private vehicle use authorized in the AHTD Accounting Manual.
- b. **Meals and lodging** – Daily rates must not exceed current reimbursement rates authorized in the AHTD Accounting Manual.

### 4) INVOICES

Must include:

- a. AHTD job number
- b. Project Location/Description
- c. Time period for the work included in the invoice
- d. Name, telephone number and email address of a contact person
- e. Signature of a consultant's representative and signature date
- f. Summary comparison of actual project preliminary engineering costs to the estimated costs for each category from beginning of work to date
- g. Detail of costs incurred
- h. Total previous payments
- i. Supporting documentation for overhead and indirect expense rates (initial invoice)
- j. Explanation for any overruns of hours, rates, direct costs, additional items of work or changes in scope of work

### 5) FINAL CERTIFICATION OF INDIRECT COST RATE

The following Certificate of Final Indirect Costs must be signed by the Consultant's Chief Financial Officer or Vice President and submitted with the Final Invoice.

## Certificate of Final Indirect Costs

AHTD Job No. \_\_\_\_\_

Utility Name: \_\_\_\_\_

This is to certify that I have reviewed this proposal to establish final indirect cost rates and to the best of my knowledge and belief:

1. All costs included in this proposal dated \_\_\_\_\_ to establish final indirect cost rates for (identify period covered by rate) are allowable in accordance with the cost principles of the Federal Acquisition Regulation (FAR) and its supplements applicable to the contracts to which the final indirect cost rates will apply; and

2. This proposal does not include any costs which are expressly unallowable under applicable cost principles of the FAR or its supplements.

Firm: \_\_\_\_\_

Signature: \_\_\_\_\_

Name of Certifying Official: \_\_\_\_\_

Title: \_\_\_\_\_

Date of Execution: \_\_\_\_\_

**10.4 ENGINEERING CHANGE ORDERS**

When the utility owner identifies a need for change to the quantity, type or scope of preliminary or construction engineering, the utility owner shall inform the Utilities Section Head or Resident Engineer, as applicable, of the reason for the requested change along with a detailed estimate of the revised cost.

The Utilities Section Head or Resident Engineer will review the requested change and, if recommended, prepare the appropriate documentation, as necessary.

## **11 RELOCATION PROPOSAL STANDARDS**

### **11.1 REIMBURSABLE PROPOSALS**

When all or part of the cost of required relocation of a utility owner's facilities is determined to be reimbursable, the Utilities Section shall be furnished the following:

- 1) One (1) copy of a detailed cost estimate.
- 2) Three (3) sets of detailed relocation plans.
- 3) A letter transmitting the cost estimate and plans which includes statements to indicate:
  - a. How many calendar days, after being authorized, it will take to begin the work.
  - b. The number of working days required for completion of the relocation work.
  - c. A statement that no arbitrary percentages or amounts have been added to cover assumed costs.

### **11.2 MINIMUM REQUIREMENTS FOR A COST ESTIMATE**

A utility owner shall use an accounting system prescribed by the Federal or State regulatory body under which it operates to accumulate costs as required in Section 12.4.

- 1) The elements or components of a cost estimate should, at a minimum, include the following:
  - a) Preliminary Engineering costs
  - b) Right of way cost
  - c) Cost of replacement facility, with betterments
  - d) Cost of removal of replaced facility
  - e) Cost of restoring removed material to usable condition (if applicable).

- f) Credit for material returned to stores or salvageable material.
  - g) Credit for plant betterments (improvements in the utility facility not necessitated by the highway construction). In the respective components, all items of labor, material, and equipment should be itemized to show quantity, type, unit cost, and extended cost, and be summarized by the various categories and recapitulated to produce the net estimated cost of the relocation for betterments.
- 2) Preliminary engineering costs, right of way costs (including clearing), and construction supervision and inspection costs are to be shown as separate items.
  - 3) If overhead cost amounts are determined by using percentage factors, labor loadings, or some other similar method, an analysis of the basis for overhead cost computations setting forth the elements of overhead costs accumulated in the computations must be furnished.
  - 4) Generally, the relocation of a utility owner's facilities will be accomplished by company forces (force account). When certain items of the relocation are to be performed by contract forces, costs covering these items shall be shown separately in their respective categories.
  - 5) The reimbursement eligibility ratio, if relocation costs are less than 100% eligible for reimbursement, should be developed, explained, and then applied in the estimate to show the proportionate costs of the relocation to be borne by the utility owner and the AHTD.

### **11.3 NONREIMBURSABLE RELOCATION PROPOSALS**

For fully nonreimbursable relocations, the utility owner shall submit:

- 1) A statement that the utility owner is not seeking reimbursement for the relocation.
- 2) Three (3) sets of the detailed relocation plans.
- 3) The number of calendar days required to begin relocation work.



4) Number of working days required to complete the relocation work.

#### **11.4 MINIMUM INFORMATION FOR RELOCATION PLANS**

- 1) Plans, whether for reimbursable or nonreimbursable relocations, shall, as a minimum, contain the following elements:
  - a) Be drawn to scale. (Utility owners shall utilize electronic files or reproduce the applicable portions of the plans and profile print furnished by the AHTD and add the necessary detail and notations to portray accurately the proposed relocation in the facilities as directly oriented with the highway construction plans).
  - b) Show the existing and proposed highway right of way and distances from the centerline of survey.
  - c) Show highway centerline stations at 100-foot intervals and station number designations at 500-foot intervals.
  - d) Show the existing and proposed facilities clearly referenced by distance from and to exact highway survey centerline stations.
  - e) Show quantity, size, class, and dimensions of all major items of material.
  - f) Show, in appropriate symbol and plan location, all major facilities existing, relocated and retired or abandoned, and indicate reimbursement eligibility status of each existing facility.
  - g) Have a legend indicating the symbol used for the various types of facilities, work to be done, and reimbursable status.
  - h) Show proposed plant betterments to be made for the convenience of the utility owner either by work or symbol at the appropriate locations.
  - i) Show control of access lines as well as right of way lines on fully or partially controlled access facility projects.

- j) Show a “North Arrow” to indicate true cardinal directions, and show in a title block the utility owner’s name, the highway project designation by Job Number and Job Name as indicated on the title sheet of the AHTD plans.
  - k) Show, where facilities are jointly used, such as power and telephone poles, the ownership of the structures as well as the “joint user(s)”.
  - l) Show, for an underground crossing, a profile of the crossing.
  - m) Show, for overhead crossings, the minimum clearance after relocation above the new road surface.
- 2) Describe by narrative, work to be done.
- 3) Provide a traffic control plan, as appropriate.

## **12 ACCOUNTING AND RECORD REQUIREMENTS**

### **12.1 PURPOSE**

If the relocation of a utility owner's facilities is determined to be reimbursable, the process for reimbursement shall be in accordance with the following policies and procedures. These are the minimum requirements for requesting reimbursement, documenting expenditures and processing payments.

### **12.2 PRELIMINARY ENGINEERING AGREEMENT**

An executed PE Agreement establishes the estimated cost for preliminary engineering services if a utility owner is not adequately staffed to carry out the necessary preliminary engineering required for the relocations. Reimbursement will be made at the same ratio as the relocation of the facilities is eligible. The PE Agreement may be on an actual cost or lump sum basis.

### **12.3 UTILITY RELOCATION AGREEMENT**

The executed Relocation Agreement establishes the estimated cost and reimbursement factor for the relocation of a utility owner's facilities for a highway project. The Relocation Agreement may be on an actual cost or lump sum basis.

### **12.4 ACCOUNTING SYSTEM**

A utility owner shall use an accounting system prescribed by the Federal or State regulatory body under which it operates, or in cases where a utility owner does not use a prescribed accounting system, it shall use its established system of accumulating specific work order costs or establish a system of accounts which will provide for accumulating direct and related cost of the relocation. In any case, the system of accounts used must be in form and detail as will identify each claimed item of cost with the particular project. Costs for which all or partial reimbursement will be claimed must be completely documented and clearly identified with the specific highway project.

## **12.5 CONFORMITY OF ESTIMATE AND INVOICES**

The preliminary cost estimate and actual cost invoices must be prepared in conformity with the same accounting procedure and use comparable unit descriptions, quantities and price structure by cost categories such as labor, equipment, overheads, materials used and recovered, etc. A comparison of the actual costs as billed will be made with the cost estimate used to prepare the Relocation Agreement to determine the invoice was prepared in the same manner as the estimate, and that all factors of cost are similarly itemized.

## **12.6 AVAILABILITY OF RECORDS**

Utility owners, their consultants and/or contractors shall maintain all books, documents, papers, accounting records and other evidence pertaining to costs incurred and make such material available at their respective offices at all reasonable times during the contract period and for three (3) years from the date of final payment under the contract for inspection by the AHTD or Federal Highway Administration and copies thereof shall be furnished if requested.

## **12.7 BILLING INVOICES**

The utility owner's records must fully support the invoiced amounts. The invoice must contain only those costs actually incurred as direct or related costs in the relocation or removal of the utility owner's facilities related to the specific highway project covered in the PE Agreement or Relocation Agreement. The invoice must reference the AHTD highway project number for which costs are incurred.

## **12.8 CONTROLLING DATES FOR INCURRING REIMBURSABLE COSTS**

Costs incurred for work accomplished prior to receiving written authorization as noted below will not be eligible for reimbursement.

- 1) Preliminary Engineering - Date of the AHTD's written authorization to the utility owner to begin preparation of the preliminary plans and estimate of cost.
- 2) Relocation – Date of the AHTD's written authorization to the utility owner to begin its relocation work.

The utility owner will be notified, in writing, of the date(s) that preliminary engineering or utility relocation costs may be incurred.

## **13 REIMBURSABLE EXPENSES**

### **13.1 DOCUMENTATION OF COST**

All cost records must be identified in the utility owner's records with the specific relocation project. Guidelines for determining actual eligible costs shall be those contained in 23 CFR 645, Subpart A. Following are normal types of costs incurred for highway projects and the type of supporting documentation needed to support each.

### **13.2 DIRECT EXPENSES FOR LABOR**

Salary and/or wage rates shall be calculated by classes on a monthly basis or labor hours by rate and amount for project. Overtime must be approved in advance by the AHTD and reported separately. This includes labor associated with preliminary engineering, construction engineering, right of way acquisition and force account construction.

The following direct labor additives may be included in direct expenses:

- Social Security
- Holiday Pay
- Vacation
- Sick Leave
- Retirement and Pension
- Unemployment Taxes
- Compensation
- Hospitalization and Liability Insurance

Such additives must be shown as a percent of direct labor expense and listed as a separate item. Utility owners may compute a cost rate including these additives or a prorated version, but must provide the items and base factors of the computation.

Approval will not be given for fees paid to engineers, architects, and others for required technical services when such fees are determined on the basis of a percentage of the total actual or estimated cost of the relocation. These types of work shall not be undertaken until approval is given by the AHTD.

### 13.3 OVERHEAD COSTS

- 1) **Utility Owners** - Overhead costs include expenses for general engineering and supervision, general office services, legal services, insurance and other items. Overhead charges must be stated in detail.
  - a) Costs not eligible for reimbursement include, but are not limited to, the costs associated with: advertising, sales promotion, interest on borrowings, the issuance of stock, bad debts, uncollectible accounts receivable, contributions, donations, entertainment, fines, penalties, sale and rate studies, lobbying, and research programs.
  - b) Overhead and indirect construction costs not charged directly to work order or construction accounts may be allocated to the relocation provided the allocation is made on an equitable basis. All costs included in the allocation shall be eligible for Federal reimbursement, reasonable, actually incurred by the utility owner, and consistent with the provisions of 48 CFR Part 31.
  - c) Rates shall be established on the basis of the prior year cost experience to avoid the fluctuations that occur with a month-to-month method. Once established and confirmed, the utility owner shall use the annual report for all billings in that year and include a schedule that shows the base figures and computations with the relocation proposal. If the rate changes prior to beginning relocation work, an updated schedule must be submitted with the first invoice.
  - d) The records supporting the entries for overhead and indirect construction costs shall show the total amount, rate, and allocation basis for each additive, and shall be provided upon request and are subject to audit by AHTD and/or Federal representative(s).
- 2) **Consultants** – See Section 10 for information related to consultant overhead costs.

### 13.4 GENERAL INDIRECT EXPENSE

- 1) **Utility Owners** - A rate may be developed from actual experience or a rate of five (5) percent of total project costs may be used.
  - a) Include a schedule that shows the base figures and computations with the relocation proposal.
  - b) If the rate changes prior to beginning relocation work, an updated schedule must be submitted with the first invoice.
  - c) The records supporting the entries for overhead and indirect construction costs shall show the total amount, rate, and allocation basis for each additive, and shall be provided upon request and are subject to audit by AHTD and/or Federal representative(s).
- 2) **Consultants** – See Section 10 for information related to consultant indirect expense rates.

### 13.5 MATERIALS EXPENSE

The utility owner shall, as necessary and appropriate:

- 1) Itemize all materials issued from stock for installation by type and show the number of items, average unit costs and amount. Items of new materials and supplies shall be billed at current stock prices when furnished from the utility owner's stock or at actual cost to the utility owner delivered to the project site when such materials must be purchased.
- 2) Itemize excess materials issued out but not used and show them as returned to stock for credit.
- 3) Provide a list, by vendor, of materials purchased directly for the project with a general description of the materials and total amount paid. Copies of invoices showing discounts, rebates, allowances and inter-company profits are to be attached.
- 4) Provide a list of salvaged materials returned to stores for reuse, less a consideration for loss in service life at ten (10) percent.



**13.6 EQUIPMENT EXPENSE**

- 1) In the accumulation of utility relocation costs necessitated by a highway project, costs incurred in the operation and use of equipment and transportation vehicles are reimbursable when properly supported. Vehicle number, description, size, date of use, per hour or per mile rates and total use, and the method for time and rate determination must be included with the invoice.
- 2) Expenses cleared through transportation and heavy equipment accounts may include depreciation; fuel and lubricants for vehicles (including sales and excise taxes); freight and express on fuel and repair parts; heat, light, and power for garage and garage office; insurance (including public liability and property damage insurance) on garage equipment, transportation equipment and heavy work equipment; license fees for vehicles and drivers; maintenance of transportation and garage equipment; operation of garages; and rent on garage buildings and grounds.
- 3) Equipment costs may include the costs of supervision, labor and expenses incurred in the operation and maintenance of heavy equipment and transportation equipment of the utility owner, including direct taxes and depreciation.
- 4) A particular class or type of equipment or vehicle may be charged to an individual account on an hourly rate or mileage depending upon the company's standard operating procedure in recording such costs.
- 5) Reimbursement of transportation and equipment costs will be limited to charges to an appropriate account for the cost of equipment used for the specific relocation project. Arbitrary or otherwise unsupported equipment use charges will not be reimbursed.

**13.7 RENTAL OF EQUIPMENT**

- 1) Where the utility owner does not have equipment available of the kind or type required to perform the necessary utility relocation, reimbursement will be

limited to the amount of rental paid to the lowest bidder following an appropriate solicitation for quotations from owner of the required kind or type of equipment.

- 2) In the event of an emergency, such as a breakdown of utility-owned equipment or there is a need for equipment not originally contemplated, reimbursement will be allowed for rental of equipment at the lowest rate available under the prevailing conditions. Such need must be approved by the Resident Engineer and documented in the diary.
- 3) Equipment rates should be based upon actual cost to the utility owner. Standard rates such as those published by the Associated Equipment Distributor may not be applied to utility-owned equipment since an increment of profit is included in the published rates, which is not reimbursable.

### **13.8 SMALL TOOL EXPENSE**

Reimbursement for the use of small tools on a project will be made on the basis of tool expenses accumulated in and distributed through the utility owner's clearing accounts or other equitable and supportable allocation basis; otherwise, it will be limited to actual loss or damage during the period of use. In the latter case, the loss or damage shall be billed in detail and supported to the satisfaction of the AHTD.

### **13.9 CONTRACT LABOR**

#### 1) Utilization

Contracts may be entered into by the utility owner for facility relocation when it is clearly shown that it is in the best interest of the AHTD, or that the utility owner is not adequately staffed or equipped to perform the work with its own forces. Such contracts must have the prior approval of the AHTD before execution.

#### 2) Reimbursement

If reimbursement is requested, any contract to perform work in connection with the utility relocation shall be accomplished by a contract secured under a fully competitive bidding process in accordance with the utility owner's normal bidding

process as required in 23 CFR 645.115. The contract shall be awarded to the lowest qualified bidder submitting a proposal in conformity with the requirements and specifications as set forth in an appropriate solicitation for bids that is approved by the Utility Section prior to advertisement. If a utility owner chooses to utilize other than the lowest qualified bidder, reimbursement will be allowed only for the amount of the low bid.

### 3) Continuing Contract

With prior approval by the AHTD, an existing written continuing contract may be used for relocation work where it is demonstrated that such work is regularly performed for the utility owner under such contracts at reasonable costs. A copy of the continuing contract must be submitted with the utility owner's proposal. This may include existing continuing contracts with another utility owner. Where such other utility owner has an ownership interest in the facility to be relocated, the inter-company profit will not be reimbursed.

### 4) Combined Contract and Force Account Work

When work is to be done by both company forces and by contract labor, the Relocation Agreement shall specifically describe the portion of the work to be accomplished by each. For example: Where right of way clearing is to be performed by contract forces, the name of the contractor and the items of work covered by the contract should be clearly set forth in the Relocation Agreement or attachments thereto.

### 5) Contract Work of a Minor Nature

Where the utility owner proposes to contract outside the foregoing requirements for work of relatively minor cost or nature, the utility owner will be reimbursed provided it is demonstrated that such requirements are impractical and the utility owner's action did not result in an expenditure in excess of that justified by the prevailing conditions. Approval for this type of contract shall be approved by the AHTD prior to incurring cost.

### **13.10 BETTERMENTS AND BETTERMENT CREDIT**

#### 1) General

In some cases, the utility owner may upgrade its facility during relocation.

Betterments increase the facility capacity or improve transmission, including function and quality.

The AHTD only pays for a functional equivalent replacement of the impacted utility facility.

- The AHTD shall receive credit for the difference between the cost of the functional replacement of the original facility and the cost of the facility as constructed.
- The utility owner shall submit an estimate including any betterment for approval by the AHTD.

#### 2) Exceptions

Some exceptions as outlined in CFR 23 645, Subpart A, Section 645.117(h), exist to the general rule.

The AHTD may reimburse for the following types of betterment:

- Those required by the transportation project or by State or Federal law or regulation
- Replacement devices or materials that are equivalent but not identical standards
- Replacement of devices or materials no longer regularly manufactured with next higher grade or size
- Those required by current highway or industry design practices and offering direct benefit to the transportation project

#### 3) Amount of Betterment

The overall scope of the betterment will be determined when the Relocation Agreement is prepared and the utility owner's calculation of the betterment credit will be verified.

Betterment credit includes the cost of materials and the increased costs of engineering and installing the betterment facilities, such as additional engineering, special construction methods, and increased overhead.

## 14 SUBMITTAL OF INVOICES

### 14.1 PREPARATION AND PROCESSING OF PARTIAL INVOICES

Costs submitted for reimbursement must have actually been expended by the utility owner prior to including the expense on an invoice, unless the AHTD has previously given approval in writing for an alternate procedure. If expenses have been incurred but not paid, the expense should not be included on the invoice.

- 1) **Frequency** - Utility owners may submit periodic invoices for reimbursement of expenditures totaling \$5,000.00 or more, no more often than once a month. One original invoice and supporting documentation must be submitted for progress billings.
- 2) **Method of Billing** – All progress invoices must include:
  - a) AHTD job number
  - b) Project Location/Description
  - c) Utility owner work order number
  - d) Time period for the work included in the invoice
  - e) Name, telephone number and email address of a contact person
  - f) Signature of a utility owner representative and signature date
  - g) Summary comparison of actual project costs to the estimated costs for each category from beginning of work to date
  - h) Detail of costs incurred with comparison to original contract or approved change order quantities
  - i) Total previous payments
  - j) Copies of canceled checks or other documentation of payment to contractors or consultants for costs included in the current billing
  - k) Supporting documentation for overhead and indirect expense rates (initial invoice)

- l) Explanation for any overruns of item quantities/amounts, additional items of work or changes in scope of work
- 3) **Payment** – The AHTD will review the invoice and supporting documentation upon receipt. Properly prepared and itemized invoices will be paid promptly upon verification. Any questioned cost may necessitate an explanation or additional documentation from the utility owner before payment can be made. Partial payment for the supported cost may be processed pending resolution of the questioned amount(s). Under no circumstances can accumulated payments or a single payment exceed the total amount of the Relocation or PE Agreement and any modifications or change orders.

#### **14.2 PREPARATION AND PROCESSING OF FINAL INVOICES**

Costs submitted for reimbursement must have actually been expended by the utility owner prior to including the expense on an invoice, unless the AHTD has previously given approval in writing for an alternate procedure. If expenses have been incurred but not paid, the expense should not be included on the invoice.

- 1) **Timing** – The utility owner must submit one original of the final invoice and an itemized statement of costs to the AHTD no later than one (1) year after completion of the relocation work.
- 2) **Method of Billing** – All final invoices must include:
  - a) AHTD job number
  - b) Project Location/Description
  - c) Utility owner work order number
  - d) Time period for the work included in the invoice
  - e) Name, telephone number and email address of a contact person
  - f) Signature of a utility owner representative and signature date

- 
- g) Summary comparison of actual project costs to the estimated costs for each category (construction, engineering, right of way, etc.) from beginning of work to date
  - h) Detail of costs incurred with comparison to original contract or approved change order quantities
  - i) Total previous payments
  - j) Recomputation of any reimbursable percentage in accordance with the Relocation Agreement
  - k) Copies of canceled checks or other documentation of payment to contractors or consultants for current claim
  - l) Supporting documentation for overhead and indirect expense rates
  - m) Explanation for any overruns of item quantities/amounts, additional items of work or changes in scope of work
  - n) As-built plans
- 3) **Certification** – Final bills, for other than lump sum agreements, shall contain a certification by an appropriate official of the utility owner (i.e. Controller, Chief Financial Officer, Accounting Department Manager, Facility Manager, Mayor, County Judge, etc.) that all items billed reflect actual expenditures by the utility owner for the relocation of its facilities. An acceptable form of certification follows:
- “This is to certify that the costs for labor, equipment, materials, supplies, contractor payments and other items included in this final bill reflect actual expenditures incurred by the utility owner for the relocation of its facilities under the Agreement for which the bill is submitted and that records to support all charges are on file in the utility owner’s offices at *(insert utility owner’s address)*.”
- The AHTD job number, job name, utility owner name, printed name of official, signature and date shall be shown on the certification form.
- 4) **Payment** – The AHTD will review the invoice and supporting documentation upon receipt. Properly prepared and itemized invoices will be paid promptly



upon verification. Any questioned cost will necessitate an explanation from the utility owner before payment can be made. Partial payment for the supported cost may be processed pending resolution of the questioned amount(s). Under no circumstances can accumulated payments or a single payment exceed the total amount of the Agreement and any modifications or change orders.

### **14.3 INVOICES FOR LUMP SUM AGREEMENTS**

- 1) **Timing** – The utility owner shall submit one original of the final invoice in the exact amount of the agreed lump sum reimbursement to the AHTD no later than one (1) year after completion of the relocation work.
- 2) **Method of Billing** – All final invoices must include:
  - a) AHTD job number
  - b) Project Location/Description
  - c) Utility owner work order number
  - d) Time period for the work included in the invoice
  - e) Name, telephone number and email address of a contact person
  - f) Signature of a utility owner representative and signature date
  - g) As-built plans
- 3) **Certification** – Final bills for lump sum agreements shall contain a certification by an appropriate official of the utility owner (i.e. Controller, Chief Financial Officer, Accounting Department Manager, Facility Manager, Mayor, County Judge, etc.) that the relocation work was done in accordance with the provisions of the approved agreement. An acceptable form of certification follows:

“This is to certify that the relocation of (include utility owner’s name) facilities required under the Lump Sum Agreement dated \_\_\_\_\_ was completed in accordance with the approved agreement.”
- 4) The AHTD job number, job name, utility owner name, printed name of official, signature and date shall be shown on the certification form.

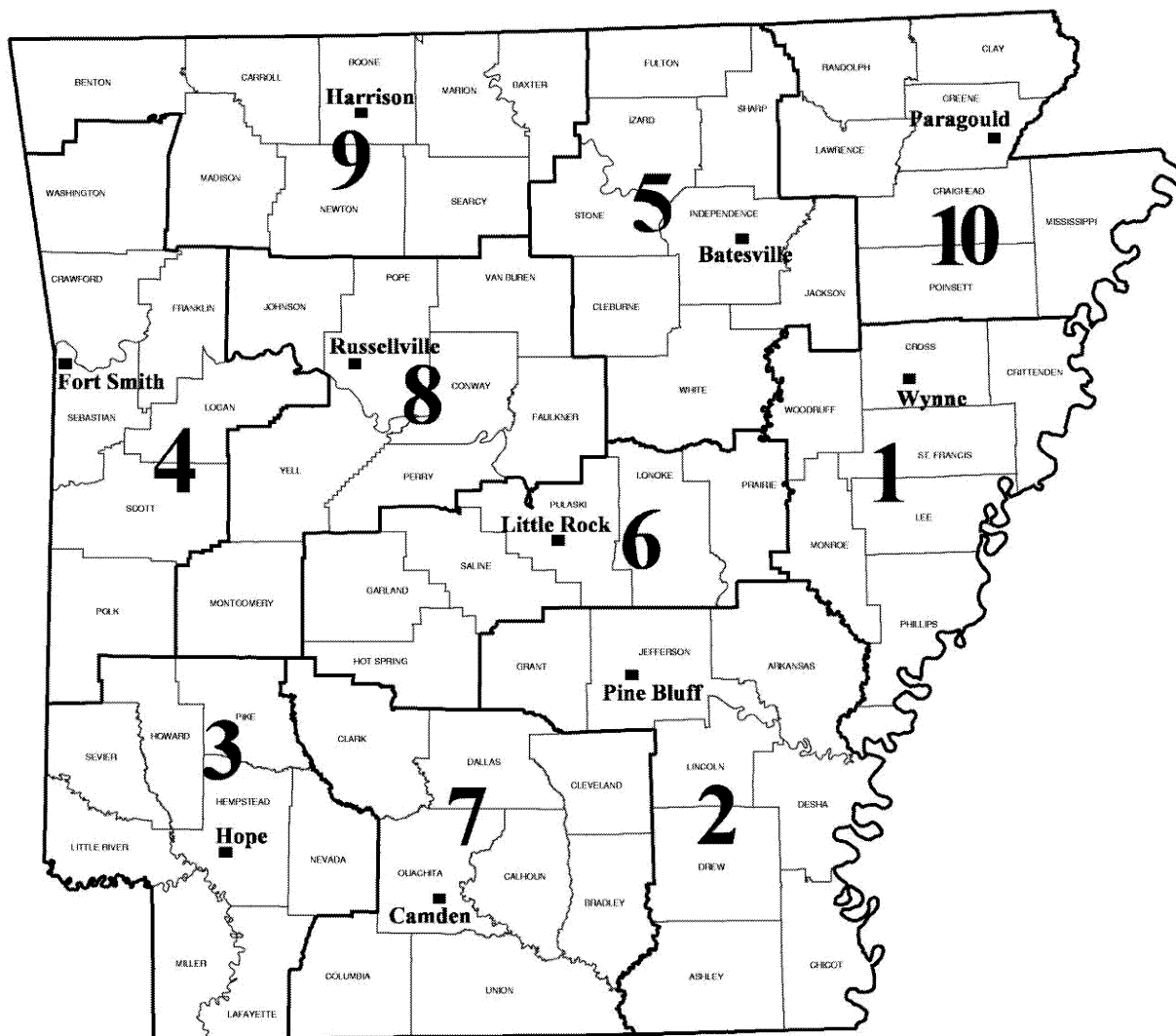
**14.4 AUDIT BY THE AHTD**

Invoices, time sheets, and other source documents supporting the utility owner's work performed under an agreement or contract with the AHTD will be subject to an audit by the AHTD to determine or validate the actual eligible cost of the relocation as provided for herein. Progress and Final Invoices are subject to audit.

- After the AHTD audit of the invoice, a notification will be sent to the utility owner advising of any adjustment needed.
- If the utility owner was overpaid, the owner shall reimburse the AHTD for the amount overpaid.
- After making final payment or receiving a refund from the utility owner in cases of overpayment, the AHTD will close the file.
- The utility owner shall maintain supporting records for a minimum of three (3) years from payment or completion of the job, whichever is greatest.

**14.5 CHANGE ORDERS**

Change orders must be prepared and approved in accordance with Sections 9.4 and 10.4 for applicable costs to be reimbursed.



**Utilities Section, Right of Way Division, Room 709**  
**Central Office - P.O. Box 2261**  
**Little Rock, AR 72203**  
**Telephone: 501-569-2321    FAX: 501-569-2018**

**Arkansas State Highway and Transportation Department**  
**HIGHWAY DISTRICTS**

District	Mailing Address	City	Zip Code	Telephone	Fax
District 1	P.O. Box 278	Wynne	72396-0278	(870) 238-8144	(870) 238-2994
District 2	P.O. Box 6836	Pine Bluff	71611-6836	(870) 534-1612	(870) 534-2038
District 3	P.O. Box 490	Hope	71802-0490	(870) 777-3457	(870) 777-3489
District 4	P.O. Box 1424	Fort Smith	72902-1424	(479) 646-5501	(479) 646-8286
District 5	P.O. Box 2376	Batesville	72503-2376	(870) 251-2374	(870) 251-2393
District 6	P.O. Box 190296	Little Rock	72219-0296	(501) 569-2266	(501) 569-2366
District 7	P.O. Box 897	Camden	71711-0897	(870) 836-6401	(870) 836-4864
District 8	P.O. Box 70	Russellville	72811-0070	(479) 968-2286	(479) 968-4006
District 9	P.O. Box 610	Harrison	72602-0610	(870) 743-2100	(870) 743-4630
District 10	P.O. Box 98	Paragould	72451-0098	(870) 239-9511	(870) 236-1156