

Chapter 1: Introduction

- 1.1 Purpose** -- This *Advanced Traffic Management System (ATMS) Design Manual of Instruction* (DMOI) is intended for use by designers producing construction plans for ATMS infrastructure in the State of Utah. It documents policies, philosophies, methods, and design criteria for developing the design of ATMS devices and communications infrastructure. It is intended to provide information and guidance for use in the development of plans advertised for construction. This DMOI provides guidance that is entrained in institutional knowledge but is not recorded in any existing documents.
- 1.2 Design Guidelines** -- The design guidelines included in this DMOI are intended to provide basic guidance on ATMS design and are not intended to be all encompassing. ATMS device sites vary and one design will not fit all cases. The designer must show critical thinking and judgement to adapt the guidelines herein to the specific geometric situation.
- 1.3 Scope** -- This design manual covers all commonly used ATMS devices by the Traffic Management Division (TMD). It includes the design of the physical site with the placement of the device, the electrical design, the design of communication infrastructure to connect the device to the Traffic Operations Center (TOC), and the operations and maintenance considerations. This document does not cover uncommon or infrequent installations such as Variable Speed Limit signs or solar powered installations.
- 1.4 Collaboratory Documents** -- This MOI is not intended to duplicate information that is found in written form in other UDOT documents. It is intended to provide design criteria that is not found elsewhere. As such it should be used in conjunction with other documentation. A comprehensive listing of applicable UDOT documents with related information is found in the Table 1.0 below.

Table 1.0 -- Related UDOT documents with external reference links

Document Title	Link to Document
UDOT Project Delivery Network	Link
UDOT QC/QA Procedures	Link
UDOT CADD Standards	Link
UDOT Plan Preparation Guidelines	Link
UDOT ATMS Design QC Checklist	Link
UDOT Roadway Manual of Instruction	Link
UDOT Standard Drawings (AT Series)	Link
UDOT Standard Specifications (ATMS Series)	Link
UDOT Plan Sheet Development Standards	Link

- 1.5 Assumptions** -- This DMOI assumes that the user is familiar with the UDOT plan preparation and bidding process and with the standard meetings, forms, Quality Control (QC)/ Quality Assurance (QA) processes and deadlines.