

ITS SUBMITTALS LIST

Air-Blown Fiber-Optic (ABF) Tube & Cable Infrastructure
Air Blown Fiber Infrastructure, 7-Tube - Drop & Insert
Air Blown Fiber Infrastructure, 2-Tube - Drop & Insert
Air Blown Fiber, Single Mode, 18-Strand
Air Blown Fiber, Single Mode, 6-Strand
Fiber Distribution Units (FTU)
Tube Distribution Units (TDU)
Splice Enclosure Assemblies
Tube Couplers

Backbone Communications Network
Network Configuration Plan
Uninterruptible Power Supply (UPS)
Security via IP Filtering (Capability/Feature)
Gigabit Ethernet Switch
Application Server
Workstation Class Computer
Laptop Class Computer

Basic Materials and Methods for ITS Work
Equipment Installation Plan
Hardware and Software Installation Configuration Plans
Acceptance Test Plan (ATP) *Note: A plan is required to verify that all devices function properly. The Acceptance Test Plan should encompass Component Level Testing, Local Device Assembly Testing (LDAT) where applicable, and Final System Testing.
Application Software
Asset Management Database (.mdb format or .xls format)
Equipment Warranty Statements
Material Handling & Storage Plan
As-Built Documents including configuration diagrams, connection details, etc.
Equipment Manuals
Work Plan
Site Evaluation Report

Cellular Modem
Cellular Modem

Cable Internet Modem Integration
Cable Internet Modem Integration - To be covered by Shop Drawings, the Equipment Installation Plan, and the Acceptance Test Plan

Cellular, Wireless Link
Cellular Modem
Service Contract

Communications Tower and Fdn
Shop Drawings & Cut Sheets
Foundation Design
Waveguide
Ice Shield
Lightning Rod
Grounding
Safety Climb System
Full Body Harness
Barbed-Wire Fence
FCC Sign

Communications Tower and Fdn, ___ ft
Communications Tower
Communications Tower Foundations
Hub 1 Tower Lighting
Tower Fence and Layout Drawings

Conduit
Conduit, Directional Bore, #, ___ Inch
Conduit, Direct Bury (DB)
Galv Conduit
Fittings

Curve Speed Warning System

ITS SUBMITTALS LIST

System Software
Pavement Sensor (Cut sheets and shop drawings)
Weather Sensor (Cut sheets and shop drawings)
System Controller

Dynamic Message Sign, Large, Install and Integrate
Dynamic Message Sign, Large, Install and Integrate - To be covered under the Equipment Installation Plan and Acceptance Test Plan

Dynamic Message Sign, Large, Rear Access
Auxiliary Control Panel
Dynamic Message Sign, Large, Rear Access
Dynamic Message Sign, Large, Rear Access, Wide Angle

Dynamic Message Sign, Large, Support Structure and Foundation
Dynamic Message Sign, Large, Support Structure
Drilled Shaft Installation Plans
Truss and Walkway Drawings
Dynamic Message Sign, Foundation
Dynamic Message Sign, Ladder

Dynamic Message Sign, Large, Walk-In
Auxiliary Control Panel
Dynamic Message Sign, Large, Walk-In
Electric Cable
Electric Cable

Electrical Power Service and Assembly
Disconnects, Panels, Breakers, Wire, Ground Rods

Environmental Sensor Station (ESS)

Fiber Optic Cable Assembly
Technician credentials
Fiber tools and test equipment
Fiber SOPs
Fiber Optic Cable Assemblies
Connectors
Splice trays
Splice Closures

Fiber Optic Specifications
Fiber Optic 12 Strand Cable
Fiber Optic 36 Strand Cable
Fiber Optic Fusion Splice
Fiber Optic Patch Cords
Fiber Optic Splice Enclosure
Fiber Optic Splice Enclosure, Small
Rack Mounted Interconnect Center
Rack Mounted Patch Panel Enclosure
Rack Mounted Splice Enclosure
Wall Mounted Interconnect System
Fiber Optic Pig-Tails

Grounding and Bonding
Equipment Grounding Wire
Ground Rods, Ground Bus, CAD Welding
Ground Cable
Wire RHW-2

Ground Mounted ITS Cabinet
Ground Mounted
Cabinet Lighting (LED)
Cabinet Monitoring System with Door Alarm
DIN Rail
Uninterruptible Power Supply (UPS)
Surge Protection
MFES
Breakers (30A, 20A, 10A)
Transfer Switch

ITS SUBMITTALS LIST

Receptacles
Fans
Thermostat

Handholes

Type-D Hh
Round Hh

ITS Building Modifications

Detailed Installation Plan

LCD Monitor

LCD Monitor and Mounting bracket

Lightning Protection

Installer Qualifications
Air Terminals and Lightning Protection
Down Conductor
UL Master Label & LPI Certification

Lockable Equipment Rack

Lockable Equipment Rack

Meter and Service Disconnect, ITS

Ground Rods, wire, meter socket, etc.
Disconnect and fuses

Microwave Vehicle Detection System (MVDS)

Microwave Vehicle Detection System
Composite Cable, Power Cable

Microwave Vehicle Detection System (MVDS), High Definition
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Microwave Vehicle Detection System, High Definition
Composite Cable, Power Cable

Miscellaneous

Concrete (D & S2)
Cabinet Foundation

NTCIP Portable Changeable Message Sign (PCMS)

NTCIP Portable Changeable Message Sign (PCMS)

NTCIP Portable Changeable Message Sign (PCMS), Full Matrix
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NTCIP Portable Changeable Message Sign (PCMS), Full Matrix
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Pole Mounted ITS Cabinet

Pole Mounted ITS Cabinet
Cabinet Lighting (LED)
Cabinet Monitoring System with Door Alarm
DIN Rail
Uninterruptible Power Supply (UPS)
Surge Protection
Digital Video Encoder (DVE)
MFES
Breakers (30A, 20A, 10A)
Transfer Switch
Receptacles
Fans
Thermostat

Power Service

Power Service, Safety Switches, Fuses, etc.
Power Service, Solar-Single MVDS Unit
Solar Panels
Automatic Solar Charger and Batteries
Mounting Hardware and Lockable Disconnect
Power Source, Solar, Single MVDS Unit

Small ITS Cabinet

Cabinet Lighting (LED)
Cabinet Monitoring System
DIN Rail
Surge Protection
MFES- Manual Field Ethernet Switch

ITS SUBMITTALS LIST

Breakers (30A, 20A, 10A)

Digital Video Encoder

Spun Concrete Pole & Drilled Shaft Fdn

Spun Concrete Pole

Drilled Shaft Design

Drilled Shaft Installation Plan

Surveillance Systems, Remote Site
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Camera Dome

Camera Assembly

Camera Lowering Device

Camera Composite Cable

Portable Camera Lowering Device Tool

Surveillance Systems, Tower Mount
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Camera Dome

Camera Assembly

Camera Lowering Device

Camera Composite Cable

Portable Camera Lowering Device Tool

Travel Time System

Dynamic Message Panel (DMP)

Controller Hardware

Power Supply

Power & Communications Cables

Mounting Hardware

Unlicensed Wireless Communications Links

Wireless Link, 900 MHz, Master

Wireless Link, 900 MHz, Subscriber

Wireless Link, 5.8 GHz, Master

Wireless Link, 5.8 GHz, Subscriber

Unlicensed Wireless Link Path Study

Wireless Link, Backhaul

Wireless Link, Backhaul Equipment

Wireless Backhaul Path Study

Wireless, Link, Backhaul Test Plan
