



ITS Quality Checklist Surge Arrestor & Transient Voltage Surge Suppressors Installation



ITSFM020
Rev. 11/16

Date:		Contract ID:		Financial Project ID:		Quality Inspector:		
Plan Sheet			MP or Sta.			Site Identification Name		
CONFORMED	NCR*	N/A	INSPECTION REQUIRED					
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Review power system diagrams and schematic to determine what type of surge arrestors or transient voltage surge suppressors (TVSS) are in the plans and specifications and carry copy to the field.					
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Review approved traffic maintenance and protection plan and carry copy to the field.					
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Monitor traffic control setups and recommend adjustment if necessary.					
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Verify all locations where surge arrestors or transient voltage surge suppressors are required per the approved plans and specification. Generally, all metal conductors connected to ITS field equipment must be protected including AC power, signal lines, video lines, telephone lines, microwave communication lines. Fiber optic lines are not conductive and do not require surge arrestor or transient voltage surge protection					
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Verify the TVSS is specified and installed at ITS equipment connected at the top of the ITS.					
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Verify the AC power surge arrestor or TVSS conductor leads are connected to all hot legs, neutral or grounding conductor per the approved plans and specifications.					
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Verify the surge arrestor grounding conductor is connected to one of the following; grounded service conductor (white neutral wire), grounding electrode conductor (conductor used to connect to the driven earth ground), or equipment grounding terminal in the service equipment (grounding bus)					
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Document all changes from the approved plans and specification to the as-built drawings.					
<p>*Complete and Attach a Nonconformance Report for all Nonconforming items noted.</p>								
QUALITY INSPECTOR			DATE			DOC CONTROL NO.		