REFERENCES


American National Standards Institute, ANSI/EIA 633, standard, n.d.


Cronin, B.P., “Design/Build: Turning the Key to Effective Intelligent Transportation System (ITS) Procurements,” Compendium of Technical Papers for the 66th Institute of Transportation Engineers Annual Meeting, Minneapolis, Minn., 1996, pp. 28–32.


Improved Traffic Signal Process (flow chart), Arizona Department of Transportation, Phoenix, 1996.


Joint Committee on the ATC, Advanced Transportation Controller Standards Overview Version 1.0, Web Site of the Joint Committee on the Advanced Transportation Controller, 2000.


National Transportation Communications for ITS Protocol, City of Phoenix, Arizona, Phoenix Advanced Transportation Management System, Report NTCIP 9004, V1.05, website of the Joint Committee on the NTCIP, 1999.

National Transportation Communications for ITS Protocol, The NTCIP Guide, Report NTCIP 9001, V. 2.05 (Draft), website of the Joint Committee on the NTCIP, 1999.


Pre-emption of Traffic Signals at our Near Railroad Grade Crossings with Active Warning Devices, Publication No. RP-025A, Institute of Transportation Engineers (ITE), Traffic Engineering Council Committee TENC-44-35, ITE, Washington, D.C.


## ABBREVIATIONS

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSI</td>
<td>American National Standards Institute</td>
</tr>
<tr>
<td>ATC</td>
<td>Advanced Transportation Controller</td>
</tr>
<tr>
<td>ATSAC</td>
<td>Automatic Traffic Surveillance and Control</td>
</tr>
<tr>
<td>BER</td>
<td>bit rate error</td>
</tr>
<tr>
<td>CBD</td>
<td>central business district</td>
</tr>
<tr>
<td>CCTV</td>
<td>closed-circuit television</td>
</tr>
<tr>
<td>CIC</td>
<td>critical intersection control</td>
</tr>
<tr>
<td>CITE</td>
<td>Consortium for ITS Training and Education</td>
</tr>
<tr>
<td>CW</td>
<td>continuous wave</td>
</tr>
<tr>
<td>GPS</td>
<td>Global Positioning System</td>
</tr>
<tr>
<td>HRI</td>
<td>Highway Research Institute</td>
</tr>
<tr>
<td>IMSA</td>
<td>International Municipal Signal Association</td>
</tr>
<tr>
<td>INCOSE</td>
<td>International Council on Systems Engineering</td>
</tr>
<tr>
<td>ISTEA</td>
<td>Intermodal Surface Transportation Efficiency Act of 1991</td>
</tr>
<tr>
<td>ITE</td>
<td>Institute of Transportation Engineers</td>
</tr>
<tr>
<td>MOE</td>
<td>measure of effectiveness</td>
</tr>
<tr>
<td>MUTCD</td>
<td>Manual on Uniform Traffic Control Devices</td>
</tr>
<tr>
<td>NEMA</td>
<td>National Electrical Manufacturers Association</td>
</tr>
<tr>
<td>NICET</td>
<td>National Institute for Certification in Engineering Technologies</td>
</tr>
<tr>
<td>NTCIP</td>
<td>National Transportation Communications for ITS Protocol</td>
</tr>
<tr>
<td>PDF</td>
<td>platoon dispersion factor</td>
</tr>
<tr>
<td>RF</td>
<td>radio frequency</td>
</tr>
<tr>
<td>TBC</td>
<td>time base coordination</td>
</tr>
<tr>
<td>TMC</td>
<td>traffic management center</td>
</tr>
<tr>
<td>TOD</td>
<td>time of day</td>
</tr>
<tr>
<td>TR</td>
<td>traffic responsive</td>
</tr>
<tr>
<td>UTCS</td>
<td>Urban Traffic Control System</td>
</tr>
</tbody>
</table>