ORIGINATOR Director, Bureau of Highway Operations	7-1-6
CHAPTER 7	Sequence of Operations
SECTION 1	General
SUBJECT 6	Other Charts

The Sequence of Operations Sheet contains several tables and charts. A complete description of the Detector Logic Chart and Controller Logic Chart is covered in TSDM 8-2-1, and the Sequence of Operations Chart is discussed in TSDM 7-1-5. Five tables have been created for special purposes; these are shown in Figure 1 below.

TYPE OF INTERCONNECT COMMUNICATION	
NONE	
TBC	
CLOSED LOOP TWISTED PAIR*	
CLOSED LOOP FIBER OPTIC*	
RADIO*	
*LOCATION OF MASTER CONTROLLER #: S-_____	
SIGNAL SYSTEM #: SS-__-___	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	
3M	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF COORDINATION	
NONE	
TBC	
TRAFFIC RESPONSIVE	
ADAPTIVE	

EVP SEQUENCE				
EMERGENCY VEHICLE DETECTOR	A	B	C	D
MOVEMENT				
PHASE				

Figure 1
Sequence of Operations - Other Tables

The main purpose of these tables is to indicate what additional equipment *may* be installed at the intersection. These charts *should* always be filled in.

TYPE OF COORDINATION

Coordinating traffic signals requires several additional coordination settings to be made in the controller. The type of coordination *should* be indicated with an "X." If the type of coordination is other than TBC, then the master signal controller location **shall** be identified by the signal number.

If tone frequency coordination is used, the actual tone frequency(s) *should* also be listed.

TYPE OF PRE-EMPT

Use of a pre-empt device at some locations provides additional safety for both the motorist and pre-empt authority (i.e. railroad, emergency vehicle). The type of pre-empt *should* be indicated with an "X."

If pre-emption is installed at the intersection, in addition to filling out the Type of Pre-empt Device Table, one *should* include a general note on the Sequence of Operations Sheet. The note *should* describe the pre-empt sequence beginning at the cross street or mainline green through the pre-empt cycle. The note *should* describe what indications *should* be displayed for each phase at the intersection when the signal is pre-empted. A sample note is shown below:

> *IN THE EVENT OF A RAILROAD PRE-EMPTION CALL, PHASE 8* ***SHALL*** *RECEIVE A GREEN INDICATION TO CLEAR THE SOUTH APPROACH. FOLLOWING THE TRACK CLEARANCE INTERVAL, THE CONTROLLER* ***SHALL*** *ADVANCE TO PHASES 2 & 6 GREEN AND HOLD FOR THE DURATION OF THE PRE-EMPTION. AT THE END OF THE PRE-EMPTION, THE CONTROLLER* ***SHALL*** *RETURN TO PHASES 4 & 8 GREEN.*

Additional discussion of pre-emption of State signals, including eligibility, request procedure, review/approval, installation, and cost, is covered in the TEOpS 4-2-22.1.

TYPE OF LIGHTING

Designate with an "X" the lighting service installed at the intersection. It is important to indicate whether lighting is wired into the controller cabinet or to a separate cabinet. If state and local lighting exist at same intersection, multiple boxes **shall** be checked to reflect maintaining authority for all lighting.