

B. CONTROLLER UNIT – Shall retain intersection data and controller unit programming in non volatile EEPROM memory. The Real time clock shall be maintained by a battery backup during power outages and shall include automatic accommodations for daylight savings time.

B. CONTROLLER UNIT – Shall be capable of two through sixteen phase operation and sixteen keyboard programmable overlaps and shall meet or exceed NEMA TS-2 Type 1 standards for fully actuated traffic controller units.

D. CONTROLLER UNIT – Shall be capable of operating with one to four concurrent timing rings on a user programmable ring structure.

E. CONTROLLER UNIT – Shall be capable of operating as a volume density controller and shall be capable of functioning in ever respect as an integrated part of a closed loop traffic control system with internal communication capability and direct access to the data memory.

F. CONTROLLER UNIT – Shall have internal Time Base Coordination (TBC) logic. The coordination control shall have the capabilities to operate as described under the section 815.411 of the Commonwealth of Massachusetts Standard Specifications.

G. CONTROLLER UNIT – Shall use a standard RS232 port provided in or with the local controller to allow for local printing of reports and for interconnecting to a remote master controller through the modem.

H. CONTROLLER UNIT – Shall have a security code function.

I. CONTROLLER UNIT – Shall have internal preemption with the capability of size unique preempt sequences. Each preempt sequence shall be fully user programmable for timing and signal display in response to an individual preempt command input.

J. CONTROLLER UNIT – Shall be provided with all necessary hardware, including cables and internal system modem to operate a closed loop system. The local system intersection controller shall include an internal modem.

LOCAL CONTROLLER CABINET - The local controller cabinet at the intersection of County Street and Union Street shall be a Massachusetts Specifications Type 8DW TS-2 Type 1, Ground Mounted, M aluminum, painted aluminum in and out.

SDLC SERIAL BUS – Per section TS-2 Section 3.3.1 a SDLC (Synchronous Data Link Control) to allow communications between the Controller Unit, MMU and BIUs shall be provided.