

Guidelines for length of longitudinal buffer space (B)	
Speed* (mph)	Length (Feet)
20	35
25	55
30	85
35	120
40	170
45	220

\*Posted speed

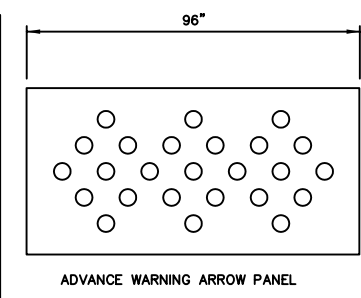
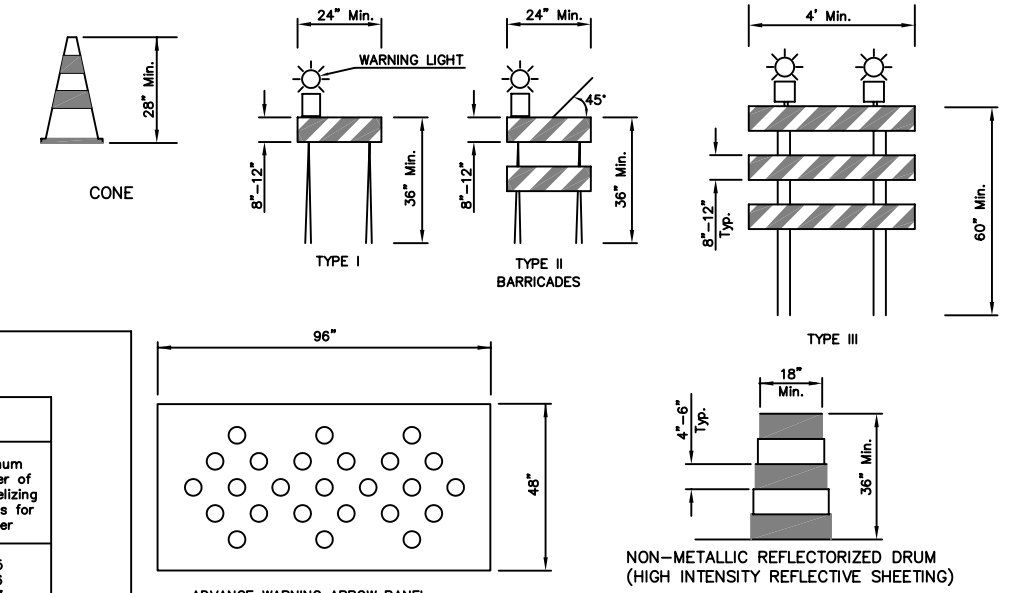
Speed Limit M.P.H.	MAXIMUM CHANNELIZATION SPACING IN FEET *	
	Along Taper	After Taper
20	20	40
25	25	50
30	30	60
35	35	70
40	40	80
45	45	90
50	50	100
55	55	100

Speed Limit M.P.H.	TAPER DETAIL			Minimum Number of Channelizing Devices for Taper
	Minimum Taper Length (L) Lane Width (W)			
	10	11	12	
20	70	75	80	5
25	105	115	125	6
30	150	165	180	7
35	205	225	245	8
40	270	295	320	9
45	450	495	540	13
50	500	550	600	13
55	550	605	660	13

SIGN SPACING(S)	
Speed Limit M.P.H.	Spacing (Feet)
≤ 30	100
35 - 45	350

\* The maximum distance in feet between devices in a taper should not exceed 1.0 times the speed limit in MPH.

- GENERAL NOTES:
- All signs, barricades, drums, markings and other traffic control devices shall conform to the Manual on Uniform Traffic Control Devices (MUTCD).
  - All traffic control devices shall be standard in size, shape, color and message, in good condition, and reflectorized. All signs, and barricades in place at night shall be reflectorized with high intensity sheeting. All signs shall be securely mounted with height and lateral location as described in the MUTCD.
  - Warning lights shall be used on all channelization devices and warning signs in place at night except drums that are fully reflectorized with high intensity sheeting. Type A Low Intensity Flashing Warning lights shall be mounted on warning signs as well as barricades where used singly. Type C Steady-Burn lights shall be mounted on barricades where used in series to delineate the edge of the travel way.
  - Advance Warning Arrow Panels shall be used for all lane closures on multi-lane streets but should not be used in lieu of proper traffic control signs, barricades and channelization devices.
  - Flaggers shall be used where indicated on the plans, where construction vehicles interact with normal traffic or where construction activities impose a restriction on traffic, as directed by the Engineer in charge of construction. Where flaggers are used, advance signing shall be erected as shown above or as specified in the MUTCD. Flaggers shall meet the requirements in the MUTCD in regard to character, training, attire and behavior.
  - Channelization devices used in the street shall be either drums or cones.
  - Traffic control devices not in use or not applicable shall be either covered or removed from the work area.
  - The Contractor shall place as many barricades as needed to effectively shield pedestrians and traffic from exposed objects, excavations and construction activities. Orange mesh pedestrian fence shall be installed around all excavations left open during non-construction times or as directed by the Engineer in charge of construction.
  - Access shall be maintained to all driveways and side streets unless noted otherwise on the plans.
  - Construction materials shall be kept off of sidewalks, consolidated in one location within City right-of-way, and removed daily unless otherwise approved by the Engineer in charge of construction.
  - Dirt, mud and other construction debris on streets and sidewalks shall be removed immediately.
  - The Contractor shall not perform any work that will restrict traffic in any way between the hours of 7:00 a.m. and 8:30 a.m. or 3:30 p.m. and 6:00 p.m.
  - The Contractor shall be responsible for maintaining all traffic control devices on an around-the-clock basis, whether or not work is actively being pursued and any deficiencies noted shall be corrected immediately.
  - The traffic control requirements shown on these plans are minimum requirements only and do not attempt to address in depth the variety of situations that may occur once construction has started. In no way do the requirements shown on these plans relieve the contractor of his responsibility for selecting the proper traffic control devices and implementation procedures that will assure the safety of motorist, pedestrians, and workers at all times. Any additional quantities of traffic control devices necessary to complete the contract or as ordered by the Engineer shall be considered subsidiary to the contract lump sum bid price.
  - Construction vehicles parked along streets and construction signs shall not restrict sight distance for vehicles exiting at streets or any drives.
  - Should the contractor fail to enforce the traffic control plan or fail to clean, replace or otherwise maintain the traffic control devices when directed to do so by the Engineer or representative, the City may take one or more of the following actions:
    - Employ another agency to correct deficiencies in signing or warning devices and deduct the cost from the contractor's pay estimate.
    - Suspend all pay Estimates until deficiencies are corrected.
    - Stop the work until deficiencies are corrected.
    - Place the contractor in default.



DATE	REVISION	BY	APPR

STREET LIGHTING / TRAFFIC SIGNAL INSTALLATION  
TRAFFIC CONTROL DETAIL

PROJECT  
PUBLIC WORKS - ENGINEERING

PROJ. NO.	XX-XXXX	TCDETAIL01.DWG	02 JAN 02
DATE	XX-XX-XXXX	DETAIL 1 of 1	
DESIGNED	XXX		
DESIGN CK	XXX		
DETAILED	XXX		
DETAIL CK	XXX		

SHEET X OF XX

