## TRAFFIC SIGNAL DESIGN QUESTIONNAIRE

The intention of this questionnaire is to determine traffic signal design preferences. The information provided will be used to develop traffic signal plans for your agency.

Date:	Return By:				
Project Name:					
Project N	Project No:				
UPC / PPMS No:					
	ment Date:				
Plan Des	gn Contact Information:				
Name:					
	).:				
	E-Mail Address:				
Traffic Si	gnal Preferences:				
a. b. c. d. e. f. g.	Pushbutton type. PA-1, PA-2 or PA-3 Pedestrian signals - type? SP-5, SP-6, SP-7, SP-8, or SP-9 Countdown pedestrian signals? Wire Size Requirements: (Wire gauge is 14 AWG) Pedestrian heads - No. of conductors? Pushbutton - No. of conductors? Pedestrian pushbuttons in medians? (Yes or No): Audible? (Yes or No): CG-12 ramp location preferences? Pedestrian sign preferences?				
3. a.	Intersection Markings:  Pedestrian crosswalk: (If combination, give explanation for guidance)  Marked; Unmarked; Combination  Crosswalk line width preferences:  Traverse lines? (inches/mm)  Longitudinal lines "Crossbars"? (inches/mm)  Width of crosswalk? (VDOT standard width is 10-feet)				

	b.	Stop Bars: Stagger stop bars in accordance with VDOT Standard PM-4?
		Orient stop hare parallel to crosswalk?
		Orient stop bars parallel to closswalk?  Orient stop bars perpendicular to centerline or median?
	C.	Solid Lane Lines:
		Use VDOT Standard PM-3 or PM-4?
		If there is a local standard, specify.
	d.	Arrow and Message Markings:
		Use MUTCD Standards when applying?
		If there is a local standard, specify.
4.	Si	gnal Heads:
	a.	Incandescent lamps, LED or Combination of both? Specify
	b.	Tunnel visors? (Yes or No):
		Half visor or Full visor
	C.	Back plates? (Yes or No):
		Louvered, or Solid, Material preference
		Signal head assembly color preference?
		Permissive/Protected phasing permitted, (5-section)? (Yes or No):
		Signal Head Mountings? SW-1, or SW-2, SM-3
	g.	Wiring/Cable Size: (Wire gauge is AWG 14)
		3-section head assembly – No. of conductors?
		5-section head assembly – No. of conductors?
		Other (specify)
5.	Si	gnal Head Alignment: (Choose one)
· .		Lane line extended?
	_	Center of lane?
	C.	Other?
_	٥.	
6.	,	gnal Phasing:
		Right Turn Overlaps? (Yes or No):
		Main-line Minimum Recall? (Yes or No):
	C.	Use standard NEMA phasing? (Yes or No):
7.	Si	gns:
		Metro Street Name Signs? (Yes or No):
		Dimensions?
		Message lettering size?
		Color combinations?
		Location on Pole?
		Who will supply signs?

	b. Internally Illuminated Street Name Signs? (Yes or No):     Dimensions?
	Message lettering size?
	Color combinations?
	Location on Pole?
	Wiring requirements?
	Mounting bracket type?
	Who will supply signs?
	c. Existing School or Fire Station Flashing Signs? (Yes or No):
	Sign Details?
	Wire size?
	Location?
	Lettering size?
	Pole Type/Style?
8.	Pedestal Mounted Signals:
	Permitted in Median? (Yes or No):
	Mounting height to bottom of signal?
	Pole set-back from median nose?
9.	Detection:
<b>J</b> .	a. Video Detection? (Yes or No):
	Wiring requirements? Camera location preference?
	b. Loop Detectors? (Yes or No):
	1) Wiring requirements:
	Loop?
	Lead-in?
	2) Main line thru lanes:
	Stop bar detection?
	Extension loops?
	3) Loop Dimensions:
	Stop bar detection?
	Enterpier Leane?
	4) Loop detector installation? TD-1 A, TD-1B, or TD-1C
	5) Extension loop distance from stop bar?
	6) Stop bar loop located:
	-feet forward of; or
	feet behind stop bar
	7) Count stations? (Yes or No):
	Locations?
10.	Loop Detector Amplifiers:
	Where applicable, can loop detectors share amplifier? (Yes or No):
	(VDOT Cabinet Specs accommodate max. 20 amplifiers within the controller
	cabinet).

11.	Conduits:			
	a. Minimum conduit sizes?			
	b. Preferred crossings configuration?			
	c. Metal? (Yes or No):			
	When or where metal conduit applied?			
	(Specs provide contractor the choice of Metal, PVC or Fiberglass).			
	d. Installation? (ECI-1), Jacking or Boring			
12.	Junction Boxes:			
	a. Preferred Sizes? JB-1, JB-2, JB-3, JB-4, JB-5			
	b. Preferred Type? Type A, Type B, Type C, Type D			
	c. Preferred Spacing?			
13.	Controller Cabinet:			
	a. Ground or Pole mounted?			
	b. Location?			
	c. New of reuse existing:			
	d. Re-use equipment inside cabinet?			
	e. Special color?			
14.	Electrical Service:			
	a. Type? SE-1, SE-2, SE-3, SE-4, or SE-5			
	b. Overhead or underground?			
	c. Any modifications?			
	d. Metered?			
4-				
15.	Signal Poles:			
	a. Mast arm? (MP-1) (Yes or No):			
	Special Treatments? (Color, Style)			
	Maximum mast arm length?			
	b. Combination luminaire mast arm poles? (MP-1) (Yes or No):			
	Maximum mast arm length?			
	Maximum luminaire arm length?			
	Luminaire mounting height? (min. or max. restrictions):			
	(Note: When luminaire arms are to be installed by the VDOT contractor and			
	luminaires are to be installed by others compatibility must be ensured. Provide			
	specifications for the luminaire to be used.			
	On an Mina O (MID O) (Man and Na)			
	c. Span Wire? (MP-2) (Yes or No):			
	d. Combination luminaire strain poles? (MP-2) (Yes or No):			
	Mounting height of luminaire? (min. or max. restrictions):			
	e. Dual mast arm poles permitted?			
	f. Architectural or special color?			

16.	Signal Pole Foundation: Foundation PF-1? (Yes or No):
17.	Interconnect System:  a. Hard wire - cable? (Yes or No):  Size?  Location?  Splice enclosures? CTE-1, CTE-2, or CTE-3  b. Radio?  c. Fiber optic?  d. Other?
18.	Preemption:  a. Approaches to be monitored? All, Main-line only Wiring requirements?  b. Confirmation lights? (Yes or No):
	Wiring requirements?
19.	Controller Cabinet Foundation: Cabinet Foundation Type? CF-1, CF-2, or CF-3 Mark conduit locations in foundation surface? Specify if different than VDOT specifications:
20.	Fire hydrant markers (Blue)? (Yes or No):
21.	Signal Timings: Specify who will prepare signal timings? (Contractor or maintaining agency):
22.	Other information needed: a. Existing As-Built drawings available?
	b. Name, address and phone number of signal equipment delivery for salvaged equipment.
	On a sigliar On a sell Natas Assilable O
	<ul><li>c. Special or General Notes Available?</li><li>d. Proprietary Signal Equipment? (Reference TEDM Section I, Chapter 2.6 and submit request to Local Assistance Division)</li></ul>
	e. What is the posted speed limit for the major roadway?

Other issues to be considered in	ues to be considered in the Traffic Signal Plan:		
ant Name			
act Name:			
phone No.:			
il Address:			
ature:	Date:		