

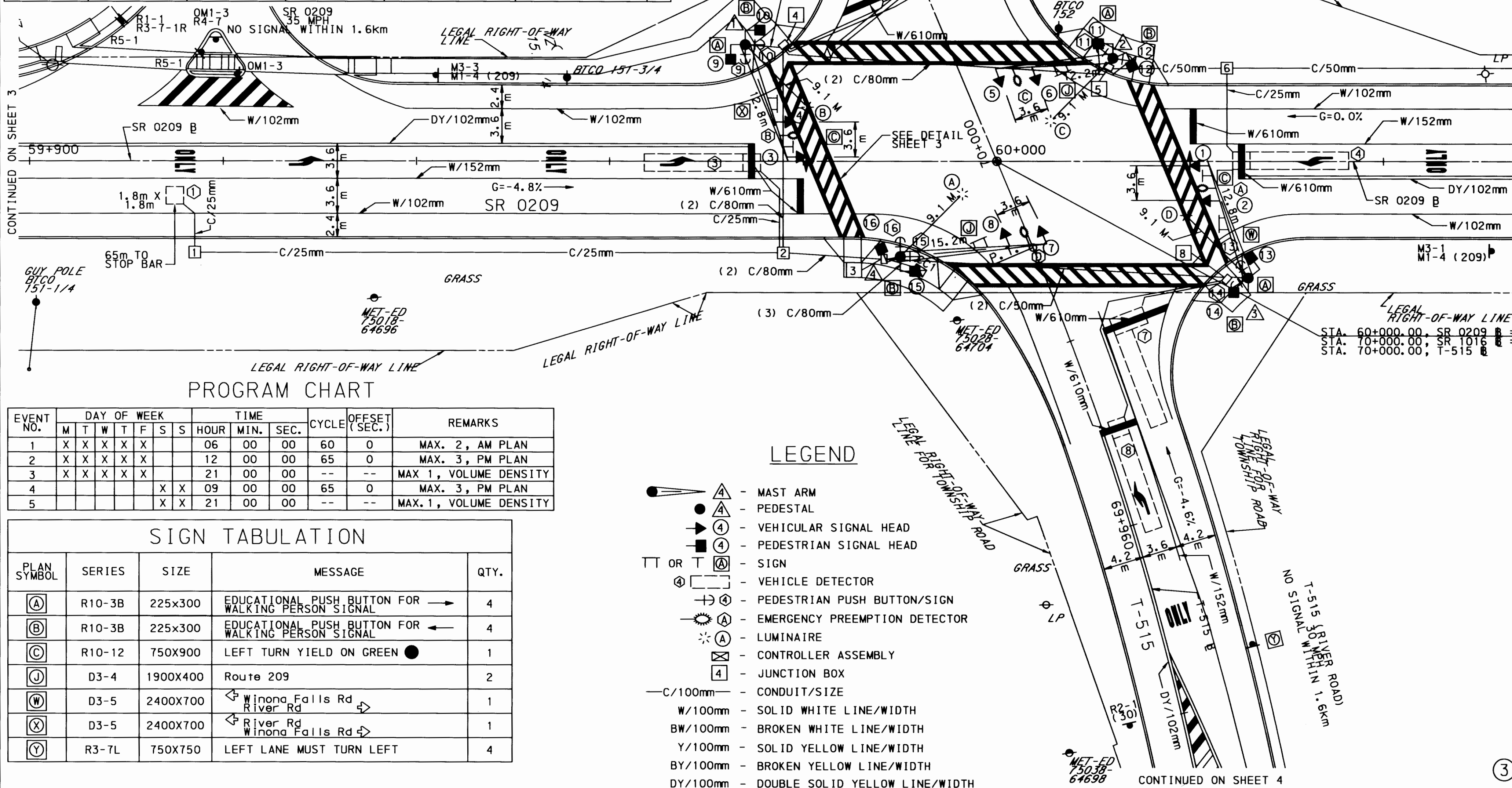
PHASING, TIMING AND COLOR SEQUENCE CHART																		EMERGENCY FLASHING OPERATION	
		PHASE 1 + 5			PHASE 2 + 5			PHASE 1 + 6			PHASE 2 + 6			PHASE 4 + 8					
INTERVAL		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		17
SIGNAL																			
1		R	Y <sup>①</sup>	R <sup>①</sup>	G	Y <sup>④</sup>	R <sup>③</sup>	R	R	R	G	G	Y	R	R	R	R		Y
2		R	R	R	G	Y <sup>③</sup>	R <sup>③</sup>	R	R	R	G	G	Y	R	R	R	R		Y
3		R	Y <sup>②</sup>	R <sup>②</sup>	R	R	R	G	Y <sup>④</sup>	R <sup>③</sup>	G	G	Y	R	R	R	R		Y
4		R	R	R	R	R	R	G	Y <sup>③</sup>	R <sup>③</sup>	G	G	Y	R	R	R	R		Y
5,6,7,8		R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y		R
9,12,13,16		H	H	H	H	H	H	H	H	H	H	H	H	H	M <sup>②</sup>	FH <sup>②</sup>	H <sup>②</sup>	H <sup>②</sup>	
10,11,14,15		H	H	H	H	H	H	H	H	H	M <sup>②</sup>	FH <sup>②</sup>	H <sup>②</sup>	H <sup>②</sup>	H	H	H	H	
FIXED		4	2		4	2		4	2				4	2			4	2	
MINIMUM		6			6			6			12				6				
SEC. /ACT.											3								
MAX. INITIAL											20								
PASSAGE		3			3			3			6				3				
TBR											10								
TTR											10								
MIN. GAP											2.5								
MAX. 1		12			12			12			22				20				
MAX. 2		6			6			6			19				17				
MAX. 3		5			5			5			21				21				
PEDESTRIAN											7	25			7	19			
MEMORY		NL			NL			NL			mR			NL					

- ① VOLUME DENSITY OPERATION NOT TO BEGIN TIMING UNTIL SIDE STREET ACTUATION
- ② UPON PEDESTRIAN ACTUATION ONLY, OTHERWISE INDICATION TO DWELL ON HAND
- ③ G IF FOLLOWED BY PHASE 2 + 6
- ④ ~~Y~~ / G IF FOLLOWED BY PHASE 2 + 6
- ⑤ PHASE TO FOLLOW PHASE 4+8 ONLY
- ⑥ PHASE TO FOLLOW PHASE 4+8 OR 1+5 ONLY
- ⑦ ~~G~~ / R IF FOLLOWED BY PHASE 2 + 6
- ⑧ ~~G~~ / R IF FOLLOWED BY PHASE 1 + 5

300mm LENS	300mm LENS	SYMBOLS
1, 3	2, 4, 5 6, 7, 8	9, 10, 11, 1 13, 14, 15, 1

ALL SIGNAL HEADS SHALL HAVE LEDS

A diagram showing a rectangular area. The top horizontal dimension is 1.8m. The bottom horizontal dimension is 10.2m. The right vertical dimension is 3.6m. The area is defined by dashed lines.



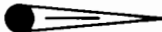





















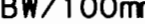



## PROGRAM CHART

EVENT NO.	DAY OF WEEK							TIME			CYCLE	OFFSET (SEC.)	REMARKS
	M	T	W	T	F	S	S	HOUR	MIN.	SEC.			
1	X	X	X	X	X			06	00	00	60	0	MAX. 2, AM PLAN
2	X	X	X	X	X			12	00	00	65	0	MAX. 3, PM PLAN
3	X	X	X	X	X			21	00	00	--	--	MAX 1, VOLUME DENSITY
4							X X	09	00	00	65	0	MAX. 3, PM PLAN
5							X X	21	00	00	--	--	MAX.1, VOLUME DENSITY

## SIGN TABULATION

PLAN SYMBOL	SERIES	SIZE	MESSAGE	QTY.
(A)	R10-3B	225x300	EDUCATIONAL PUSH BUTTON FOR WALKING PERSON SIGNAL →	4
(B)	R10-3B	225x300	EDUCATIONAL PUSH BUTTON FOR WALKING PERSON SIGNAL ←	4
(C)	R10-12	750X900	LEFT TURN YIELD ON GREEN ●	1
(J)	D3-4	1900X400	Route 209	2
(W)	D3-5	2400X700	↖ Winona Falls Rd River Rd ↗	1
(X)	D3-5	2400X700	↖ River Rd Winona Falls Rd ↗	1
(Y)	R3-7L	750X750	LEFT LANE MUST TURN LEFT	4

### LEGEND

-  - MAST ARM  
  - PEDESTAL  
  - VEHICULAR SIGNAL HEAD  
  - PEDESTRIAN SIGNAL HEAD  
 OR   - SIGN  
  - VEHICLE DETECTOR  
  - PEDESTRIAN PUSH BUTTON/SIGN  
  - EMERGENCY PREEMPTION DETECTOR  
  - LUMINAIRE  
 - CONTROLLER ASSEMBLY  
 - JUNCTION BOX  
 - CONDUIT/SIZE  
 - SOLID WHITE LINE/WIDTH  
 - BROKEN WHITE LINE/WIDTH  
 - SOLID YELLOW LINE/WIDTH  
 - BROKEN YELLOW LINE/WIDTH  
 - DOUBLE SOLID YELLOW LINE/WIDTH

PERMIT NO. 45-207-003 SHEET 2 OF 4  
DATE ISSUED 11-17-94 DATE REVISED 12-4-09 △

**GENERAL NOTES**

INSTALLATION, OPERATION AND MAINTENANCE OF THIS TRAFFIC SIGNAL TO BE IN ACCORDANCE WITH PENNSYLVANIA DEPARTMENT OF TRANSPORTATION REGULATIONS ON OFFICIAL TRAFFIC CONTROL DEVICES. NO MODIFICATIONS OF THIS INSTALLATION ARE PERMITTED UNLESS PRIOR APPROVAL IS GRANTED, IN WRITING, BY THE DEPARTMENT.

ALL MAINTENANCE NECESSARY FOR PROPER VISIBILITY OF THE SIGNALS, INCLUDING TRIMMING TREES, IS THE RESPONSIBILITY OF THE PERMITTEE.

ALL SIGNS AND PAVEMENT MARKINGS INDICATED ON THIS DRAWING ARE CONSIDERED PART OF THE PERMIT AND ARE TO BE INSTALLED AND MAINTAINED BY THE PERMITTEE, UNLESS OTHERWISE INDICATED, EXCEPT THE LONGITUDINAL PAVEMENT MARKINGS ON STATE HIGHWAYS WHICH WILL BE MAINTAINED BY THE DEPARTMENT.

INSTALL POST MOUNTED SIGNALS WITH THE SIGNAL HEADS A MINIMUM OF 0.6 M BEHIND THE FACE OF THE CURB OR EDGE OF THE SHOULDER. SUPPORT POLES FOR OVERHEAD SIGNALS WILL HAVE A MINIMUM HORIZONTAL CLEARANCE OF 0.6 M.

THE BOTTOM OF SIGNAL HEADS AND SIGNS ERECTED OVER THE ROADWAY ARE NOT TO BE LESS THAN 4.5 M NOR MORE THAN 5.8 M ABOVE THE ROADWAY. THE BOTTOM OF POST MOUNTED SIGNAL HEADS ARE TO BE NOT LESS THAN 2.4 M NOR MORE THAN 4.5 M ABOVE THE SIDEWALK OR PAVEMENT GRADE.

THE MINIMUM HORIZONTAL DISTANCE BETWEEN SIGNAL HEADS MEASURED AT RIGHT ANGLES TO THE APPROACH IS TO BE 2.4 M.

IN ADDITION TO THIS SIGNAL PERMIT, THE PERMITTEE WILL OBTAIN A HIGHWAY OCCUPANCY PERMIT PRIOR TO ANY OPENINGS BEING MADE IN OR UNDER ANY PORTION OF A STATE HIGHWAY, IF APPLICABLE.

THIS DRAWING CANNOT BE USED AS A CONSTRUCTION DRAWING UNLESS THE PERMITEE COMPLIES WITH THE PROVISIONS OF ACT 121, PREVENTION OF DAMAGE TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION CONSULT WITH UTILITY COMPANIES TO RESOLVE ANY PROBLEMS WHICH MAY BE CREATED DUE TO THE LOCATION OF UTILITIES.

PLACE PAVEMENT MARKINGS IN ACCORDANCE WITH THE  
DEPARTMENT OF TRANSPORTATION PAVEMENT MARKING,  
TC-8600 SERIES STANDARDS.


MAINTENANCE AND PROTECTION OF TRAFFIC FOR THE  
INSTALLATION AND MAINTENANCE OF THIS SIGNAL TO BE  
IN ACCORDANCE WITH PUBLICATION 213, WORK ZONE  
TRAFFIC CONTROL.

COUNTY : MONROE  
MUNICIPALITY : MIDDLE SMITHFIELD TOWNSHIP  
INTERSECTION : SR 0209 & RIVER RD (T-515) /  
SR 1016 (WINONA FALLS RD)

REVIEWED : *[Signature]* 9-4-09  
MUNICIPAL OFFICIAL DATE

REVIEWED Charles J. [Signature] 12/1/09  
DISTRICT TRAFFIC SIGNAL DIVISION DATE

RECOMMENDED : *Devin Dooney* 12/1/09  
DISTRICT TRAFFIC ENGINEER DATE

SCALE :  1:250 METRIC