



TRAFFIC
SIGNAL PERMIT

Permit No. 06-203-007
Sheet 1 of 3

In accordance with the Vehicle Code, the Secretary of Transportation hereby approves the installation and operation of a traffic signal at the intersection of:

SR 422 (Benjamin Franklin Highway)

and SR 2025 (Monocacy Creek Road)

in the Township of Amity, County of Berks

This permit is issued to, and accepted by the Township of Amity
hereinafter known as the Permittee, as follows:

This installation shall be in accordance with the Vehicle Code and the Regulations for traffic signs, signals and markings of the Department of Transportation, and shall conform to the following requirements and those contained on the attached sheets.

Type of Controller Fully-Actuated

Type of Signal Mounting Post Mounted & Overhead

Hours of Operation as "Stop" and "Go" As indicated on the attached diagram.

Hours of Operation as "Flashing" As indicated on the attached diagram.

Controller Operation Controller to provide the phasing, timing and signal display as indicated on the attached diagram.

Preemption for emergency vehicles (fire apparatus) to provide the operation indicated on the attached diagram.

All work performed by the Permittee in the erection of the traffic signal shall be under and subject to the direction of the Secretary of Transportation or their authorized representatives. The said Permittee shall use due diligence in the execution of the work authorized under this permit and shall not obstruct or endanger travel along the said road. All operations must be conducted so as to permit safe and reasonable free travel at all times over the road within the limits of the work herein permitted.

The Permittee covenants and agrees to fully indemnify and save harmless the Department of Transportation and assume all liability for damages or injury, occurring to any person, persons or property through or in consequence of any act or omission of anyone working on the construction, or from faulty maintenance or operation of such traffic signal.

The Secretary of Transportation, by law, reserves the right to revoke and annul this permit if the Permittee shall at any time willfully or negligently fail to comply with the conditions contained in this permit, or, upon changes in the traffic conditions, fail to make any changes in the construction or operation of this signal, or to remove it, when so ordered by the Secretary of Transportation; or if this installation is not in operation within twenty-four (24) months of the receipt of this permit. The Permittee shall maintain the signal in a safe condition at all times. The Permittee shall not make any change in the construction or operation of this traffic signal without prior written approval of the Secretary of Transportation.

This permit cancels and supersedes all previous permits issued for this location upon completion of the installation specified herein.

INITIAL DATE: September 16, 1991

REVISION DATE: July 6, 1999

June 20, 2012

November 27, 2012

April 11, 2016

March 14, 2018

April 30, 2019

January 25, 2021

October 27, 2021

APPROVED

Yassmin Gramian P.E.

Secretary of Transportation

BY

Jack Hubbard

For District Executive

SIGN TABULATION**				
SYMBOL	SERIES	DESCRIPTION	SIZE (IN.)	QTY.
	R4-7	KEEP RIGHT	24 X 30	1
	OM1-3	OBJECT MARKER	18 X 18	1
	R10-10L	LEFT TURN SIGNAL	30 X 36	2
	R3-7L	LEFT LANE MUST TURN LEFT	30 X 30	2
	D3-4	Benjamin Franklin Hwy	96 X 16	2
	D3-4	Monocacy Creek Rd	96 X 16	2
	R10-3E	EDUC. PUSH BUTTON FOR WALK SIGNAL W/COUNTDOWN TIMER	9 X 15	2
	R10-3E	EDUC. PUSH BUTTON FOR WALK SIGNAL W/COUNTDOWN TIMER	9 X 15	6
	R10-7	DO NOT BLOCK INTERSECTION	24 X 30	1
	R3-4	NO U-TURN	30 X 30	2

* OVERHEAD STREET NAME SIGNS TO BE STRUCTURE-MOUNTED FLAT SHEET ALUMINUM WITH STIFFENERS. OVERHEAD STREET NAME SIGNS TO CONSIST OF WHITE LEGEND AND BORDER ON GREEN BACKGROUND.
** ALL SIGNS TO UTILIZE RETROREFLECTORIZED TYPE III, IV, VI, VII, VIII, IX OR X SHEETING FOR LEGEND, BORDER AND BACKGROUND.

NORTH
MONOCACY
CREEK ROAD
(T-727)

SR 0422 SEG 0610 OFF 0837
SR 0422 SEG 0611 OFF 0862
SR 2025 SEG 0312 OFF 0318

WEEKLY PROGRAM CHART

EVENT	DAY OF WEEK							TIME			CYCLE (SEC)	OFFSET (SEC)	COMMENTS
	M	T	W	T	F	S	S	HR	MIN	SEC			
1	X	X	X	X	X			06	00	00	—	—	MAX 1, FREE
2*	X	X	X	X	X			07	00	00	110	—	PROGRAM 1
3	X	X	X	X	X			07	30	00	—	—	MAX 2, FREE
4	X	X	X	X	X	X	X	15	00	00	—	—	MAX 3, FREE

*TO RUN DURING THE SCHOOL YEAR (AUGUST 30TH TO JUNE 20TH).

SR 0422 (BENJAMIN
FRANKLIN HIGHWAY)

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	BERKS	0422		
AMITY TOWNSHIP				
PERMIT NO: 06-203-007		SHEET 2 OF 3		
DATE ISSUED: 09/16/91		DATE REVISED: 10-27-21		

GENERAL NOTES

INSTALLATION, OPERATION AND MAINTENANCE OF THIS TRAFFIC SIGNAL TO BE IN ACCORDANCE WITH PENN-SYLVANIA 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 2 FEET BEHIND THE FACE OF THE CURB OR EDGE OF THE SHOULDER.

INSTALL TRAFFIC SIGNAL SUPPORTS IN ACCORDANCE WITH PUBLICATION 149, CHAPTER 5.

THE BOTTOM OF SIGNAL HEADS AND SIGNS ERECTED OVER THE ROADWAY ARE NOT TO BE LESS THAN 15 FEET NOR MORE THAN 19 FEET ABOVE THE ROADWAY. THE BOTTOM OF POST MOUNTED SIGNAL HEADS ARE TO BE NOT LESS THAN 8 FEET NOR MORE THAN 15 FEET ABOVE THE SIDEWALK OR PAVEMENT GRADE.

THE MINIMUM HORIZONTAL DISTANCE BETWEEN SIGNAL HEADS MEASURED AT RIGHT ANGLES TO THE APPROACH IS TO BE 8 FEET.

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 PERMITTEE COMPLIES WITH THE PROVISIONS OF ACT 287-1974 AS AMENDED, 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 TRAFFIC SIGNAL TO BE IN ACCORDANCE WITH PUBLICATION 213, TEMPORARY TRAFFIC CONTROL GUIDELINES.

THREADED PLATE MAST ARM CONNECTIONS WILL NOT BE PERMITTED FOR THIS TRAFFIC SIGNAL PERMIT.

County: BERKS
Municipality: AMITY TOWNSHIP
Intersection: SR 0422 (BENJAMIN FRANKLIN HWY.) & SR 2025 (MONOCACY CREEK RD)/ N. MONOCACY CREEK ROAD (T-727)

Reviewed: Troy S. Bingham 10/21/2021
Municipal Official Date

Reviewed: 10/21/21
District Traffic Signals Div. Date

Recommended: 10/25/21
District Traffic Engineer Date

Scale: 25 0 25 50

SR 0422 (BENJAMIN FRANKLIN HIGHWAY)
PHASING, TIMING AND SEQUENCE CHART

PHASE	1+5			2+5				1+6				2+6				4+8				EMERGENCY FLASHING OPERATION
SIGNALS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
1																				
2,3	R	R	R	R	R	R	R	G	G	Y	R	G	G	Y	R	R	R	R	R	Y
4																				
5,6	R	R	R	G	G	Y	R	R	R	R	R	G	G	Y	R	R	R	R	R	Y
7,8	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	R
9,10	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	R
13,17	H	H	H	M	FH	H	H	H	H	H	H	M	FH	H	H	H	H	H	H	OFF
14,18	H	H	H	H	H	H	H	M	FH	H	H	H	H	H	H	H	H	H	H	OFF
11,15	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	M	FH	H	H	OFF
12,16	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	M	FH	H	H	OFF
FIXED	4.5	3.0			4.5	3.0			4.5	3.0			4.5	3.0			3.5	3.5		
MINIMUM	3			3				3				15				4				
SEC/ACT												1.5								
MAX INITIAL												35								
PASSAGE	3			3				3				++				3				
MAX 1	22			22				22				47				14				
MAX 2	17			17				17				47				14				
MAX 3	17			17				17				49				12				
PROGRAM 1	38			38				38				32				18				
PEDESTRIAN																				
MEMORY	NON-LOCKING			NON-LOCKING				NON-LOCKING				MIN RECALL				NON-LOCKING				

++ADVANCED DILEMMA ZONE NOTES
EST. TIME OF ARRIVAL: MIN. 2.5 - MAX. 5.5 SEC.
RANGE OF DETECTION: MIN. 0 - MAX. 450 FT. FROM STOP BAR
SPEED BOUNDARY: MIN. 27 MPH - MAX. 100 MPH

++ DENSITY ZONE NOTES
RANGE OF DETECTION: MIN. 0 - MAX. 100 FT. FROM STOP BAR
SPEED BOUNDARY: MIN. 1 MPH - MAX. 30 MPH

PHASING NOTES

- IF FOLLOWED BY PHASE 1+6
- IF FOLLOWED BY PHASE 2+5
- G IF FOLLOWED BY PHASE 2+6
- UPON PEDESTRIAN ACTUATION ONLY, OTHERWISE H AT ALL TIMES
- TIMING MAY BE STARTED IN THIS PHASE AND BE COMPLETED IN PHASE 2+6
- M IF FOLLOWED BY PHASE 2+6
- PHASE 1+5 TO FOLLOW PHASE 2+6 OR 4+8 ONLY
- PHASE 2+5 TO FOLLOW PHASE 1+5, 2+6 OR PHASE 4+8 ONLY
- PHASE 1+6 TO FOLLOW PHASE 1+5, 2+6 OR PHASE 4+8 ONLY
- G IF FOLLOWED BY PHASE 1+6
- G IF FOLLOWED BY PHASE 2+5

SIGNAL INDICATIONS

12" LENS	12" LENS	9" SYMBOLS
		11,12,13,14
		15,16,17,18
2,3,5,6	1,4	
7,8,9,10		

SIGNALS 1-10 EQUIPPED WITH BACKPLATES WITH RETROREFLECTIVE BORDERS

LEGEND

- Luminaire
- Conduit
- Mast Arm
- Strain Pole
- Pedestal
- Emergency Preemption Flashing Beacon
- Emergency Preemption Device
- Phase Number
- Radio Antenna
- Advance Dilemma Zone Detection
- Video Detector
- Sign
- Loop Sensor/Size

Vehicular Signal Head

Pedestrian Signal Head

Pedestrian Push Button/Sign

Junction Box

Controller Assembly

Solid White Line/Width

Broken White Line/Width

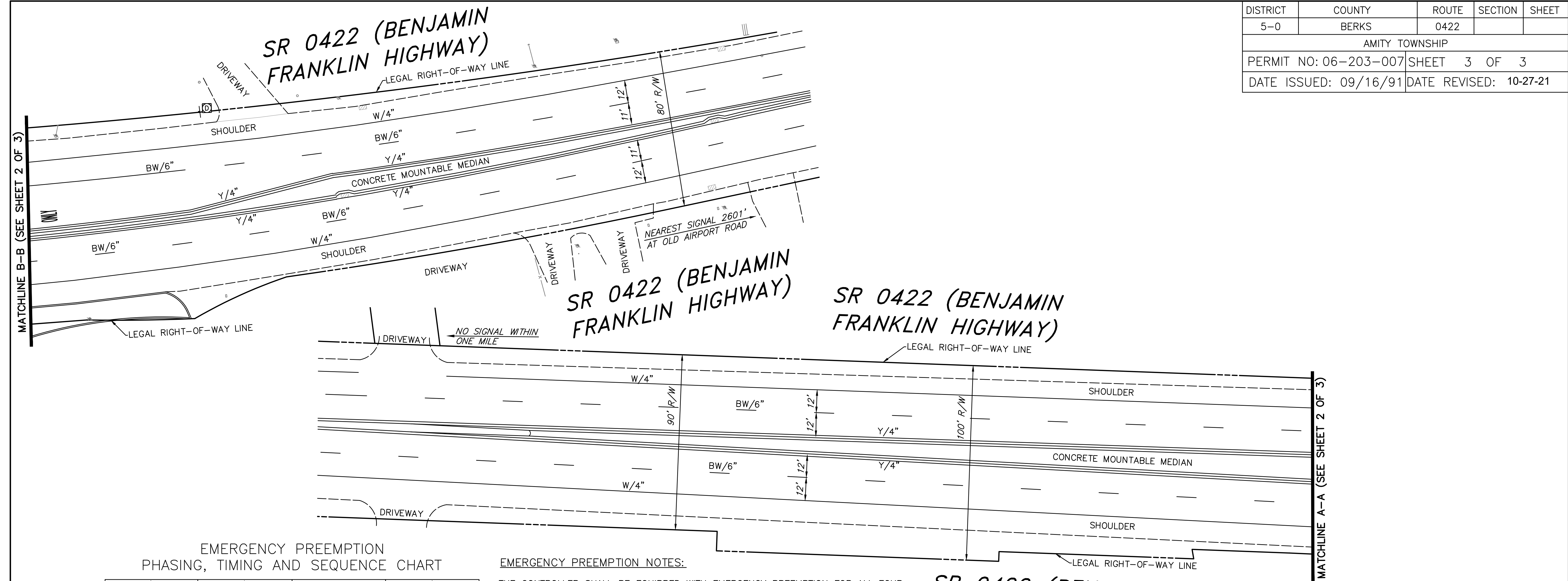
Solid Yellow Line/Width

Broken Yellow Line/Width

Double Solid Yellow Line/Width

Detectable Warning Surface (DWS)

i:\eng\918297.dwg 2/27/2021 dwg



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	BERKS	0422		
AMITY TOWNSHIP				
PERMIT NO: 06-203-007		SHEET	3	OF 3
DATE ISSUED: 09/16/91		DATE REVISED: 10-27-21		

EMERGENCY PREEMPTION
PHASING, TIMING AND SEQUENCE CHART

PHASE		2+5				1+6				4				8						
SIGNALS \ INTERVAL		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35			
1		SELECTIVE CLEARANCE				SELECTIVE CLEARANCE				SELECTIVE CLEARANCE				SELECTIVE CLEARANCE						
2,3			R	R	R		G	Y				R	R		R	R	R	R	R	
4																				
5,6			G	Y			R	R	R		R	R	R		R	R	R	R	R	R
7,8			R	R	R		R	R	R		R	R	G		Y	R	R	R	R	R
9,10			R	R	R		R	R	R		R	R	R		R	R	R	G	Y	R
13,17			H	H	H		H	H	H		H	H	H		H	H	H	H	H	H
14,18			H	H	H		H	H	H		H	H	H		H	H	H	H	H	H
11,15			H	H	H		H	H	H		H	H	H		H	H	H	H	H	H
12,16			H	H	H		H	H	H		H	H	H		H	H	H	H	H	H
FIXED			**	4.5	3.0		**	4.5	3.0		**	3.5	3.5		**	3.5	3.5			

** FOR DURATION OF PREEMPTION

EMERGENCY PREEMPTION OPERATION NOTES

⓪ SIGNALS TO INDICATE G WHEN RETURNING TO NORMAL OPERATION.
IF THE PREEMPTION EQUIPMENT HAS ENCODING CAPABILITIES FOR VEHICLE IDENTIFICATION AND THERE IS THE NEED TO ALLOW PREEMPTION BY EMERGENCY VEHICLES FROM NEARBY MUNICIPALITIES WITH DIFFERENT EMITTERS, IT IS RECOMMENDED TO HAVE THE ZERO "00" FEATURE ON TO GIVE UNCODED EMITTERS THE ABILITY TO ACTIVATE THE EMERGENCY PREEMPTION.

EMERGENCY PREEMPTION NOTES:

THE CONTROLLER SHALL BE EQUIPPED WITH EMERGENCY PREEMPTION FOR ALL FOUR APPROACHES WITH AN INDICATOR LIGHT FOR EACH APPROACH. THE INDICATOR LIGHT SHALL CONSIST OF A FLASHING WHITE LIGHT AND, IT SHALL FLASH FOR THE APPROPRIATE APPROACH DURING THE GREEN INTERVAL IN THE PREEMPTION PHASE TO CONFIRM THAT THE EMERGENCY VEHICLE HAS CONTROL OF THE INTERSECTION.

THE SIGNALS, WHEN ACTIVATED BY AN EMERGENCY VEHICLE, SHALL IMMEDIATELY TERMINATE ALL GREEN INDICATIONS, EXCEPT THE GREEN INDICATIONS FOR THE PHASE GOVERNED BY THE APPROACHING EMERGENCY VEHICLE, FOLLOWED BY SELECTIVE CLEARANCES DEPENDENT UPON THE PHASE IN WHICH THE PREEMPTION OCCURS. THE GREEN INDICATIONS FOR THE PREEMPTED APPROACH SHALL REMAIN GREEN FOR THE DURATION OF SIGNAL PREEMPTION WITH RED INDICATIONS DISPLAYED FOR ALL OTHER APPROACHES.

THE SIGNALS, WHEN ACTIVATED BY AN EMERGENCY VEHICLE, DURING ANY CLEARANCE INTERVAL SHALL TIME OUT ALL YELLOW AND RED INTERVALS, FOLLOWED BY THE GREEN INTERVAL OF THE PREEMPTION PHASE GOVERNED BY THE APPROACHING EMERGENCY VEHICLE.

IF THE SIGNALS HAVE BEEN ACTUATED BY A PEDESTRIAN PUSHBUTTON, AND THE SIGNAL IS SUBSEQUENTLY PREEMPTED BY AN APPROACHING EMERGENCY VEHICLE, THE PEDESTRIAN WALK (WALKING PERSON) INTERVAL SHALL TERMINATE IMMEDIATELY, FOLLOWED BY THE PEDESTRIAN CLEARANCE INTERVAL. THIS INTERVAL SHALL TIME OUT, FOLLOWED BY THE APPROPRIATE SELECTIVE CLEARANCES, BEFORE GOING INTO EMERGENCY PREEMPTION.

IF THE SIGNALS ARE FLASHING WHEN ACTIVATED BY AN EMERGENCY VEHICLE, ALL SIGNALS SHALL REMAIN FLASHING.

WHEN RETURNING TO NORMAL OPERATION GO TO PHASE 2+6 INTERVAL 12.

TRAIN PREEMPTION SHALL TAKE PRECEDENCE OVER EMERGENCY VEHICLE PREEMPTION. EMERGENCY VEHICLES SHALL BE SERVED ON A "FIRST COME, FIRST SERVED" BASIS, UNLESS ANOTHER MODE OPERATION IS APPROVED BY PENNDOT. NO OTHER TYPES OR CLASSES OF VEHICLES SHALL BE PERMITTED TO PREEMPT THE TRAFFIC SIGNAL UNLESS APPROVED BY PENNDOT.

SR 0422 (BENJAMIN
FRANKLIN HIGHWAY)

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Reviewed: Troy S. Bingaman 10/21/2021
Municipal Official Date

Reviewed: District Traffic Signals Div. Date

Recommended: District Traffic Engineer Date

Scale: 25 0 25 50