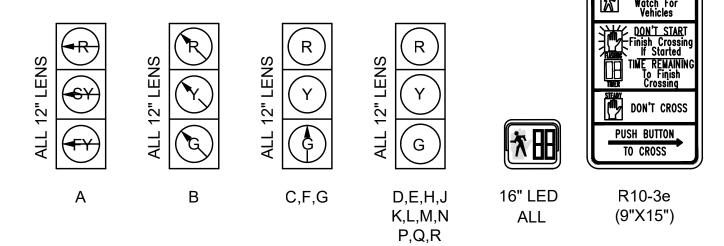


			ф1				ф2			ф3			ф4			PRE	PREEMPT ¢R1		PREEMPT ¢R2		φR2	2 PREEMPT ¢R3		PREEMPT ØR4		φR4	
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Z			, h	→	→		*	*	↑	→	↑ →	→	OL.	}			→	→		→	*			<u> </u>		→	}
SEQUENCE AND TIMING FOR FULL ACTUATED CONTROL (COORDINATED)																											
STREET	DIRECTION	HOUSINGS	1	2	3	4	5	6	7	8	9	10	11	12	FLASH OPER.	13	14	15	16	17	18	19	20	21	22	23	24
ACUSHNET AVENUE	NB	D,E	G	Υ	R	G	Υ	R	R	R	R	R	R	R	FY	R	R	R	G	Υ	R	G	Υ	R	R	R	R
ASHLEY BOULEVARD	NB	P,Q	R	R	R	G	Υ	R	R	R	R	R	R	R	FR	R	R	R	G	Υ	R	R	R	R	R	R	R
ACUSHNET AVENUE	SB	Α	FY	⟨SY	₩	₩	₩	*	₩	₩	*	\	₹	₩	⟨FR	⟨FY	⟨SY	R	*	₩	₩	₩	*	₩	#	\	₩
ACUSHNET AVENUE	SB	В	G	K	R	R	R	R	R	R	R	R	R	R	FY	Œ	K	R	R	R	R	R	R	R	R	R	R
ACUSHNET AVENUE	SB	С	Ĝ	Υ	R		Υ	R	R	R	R	R	R	R	FY	\$	Υ	R	R	R	R	R	R	R	R	R	R
ACUSHNET AVENUE	SB	R	G	Υ	R	G	Υ	R	R	R	R	R	R	R	FY	G	Υ	R	R	R	R	R	R	R	R	R	R
ACUSHNET AVENUE	SB	M,N	G	Υ	R	G	Υ	R	R	R	R	G	Υ	R	FY	G	Υ	R	R	R	R	R	R	R	G	Υ	R
ACUSHNET AVENUE	NWB	F,G	Ĝ	Υ	R	R	R	R	R	R	R	R	R	R	FY	R	R	R	R	R	R	Ĝ	Υ	R	R	R	R
BELAIR STREET	EB	K,L	R	R	R	R	R	R	R	R	R	G	Υ	R	FR	R	R	R	R	R	R	R	R	R	G	Υ	R
SITE DRIVEWAY	WB	H,J	R	R	R	R	R	R	R	R	R	G	Υ	R	FR	R	R	R	R	R	R	R	R	R	R	R	R
PEDESTRIAN	ALL	P1-P10	DW	DW	DW	DW	DW	DW	W	FDW	DW	DW	DW	DW	OUT	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
TIMING IN SECONDS																											
MINIMUM GREEN (INITIAL)			10			10						6															
PASSAGE TIME (VEHICLE)			7			7						6															
MAXIMUM 1 (COORDINATION)			29			28						12				-			-			, - t			-		
MAXIMUM 2 (FREE)			36			31						12			>							l ,					. <u> </u>
YELLOW CLEARANCE				4			4						3.5		, N		4			4			4			4	
RED CLEARANCE					3			3						2.5	GE F			3			3			3			3
WALK (W)									7						A O												
PEDESTRIAN CLEARANCE										14	4				EMERGENCY ONLY												
DECALL					<u> </u>																	 		<u></u>	igsqcup		
RECALL				C-MIN			OFF			OFF			OFF				-			-			-		 	-	
MEMORY			NC	N-LO	CK	I NC	N-LO	CK		LOCK		NC	N-LO	CK			-			-					<u> </u>	-	

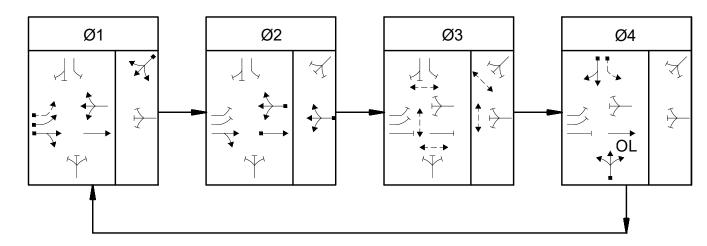
SIGNAL IDENTIFICATION



SIGNAL IDENTIFICATION NOTES:

- 1. ALL SIGNALS SHALL HAVE L.E.D. LENSES.
- 2. ALL SIGNALS SHALL HAVE 3/4 TUNNEL VISORS.
- 3. ALL SIGNALS SHALL HAVE A 5" NON-LOUVERED BACKPLATE WITH A 3"
- YELLOW RETRO-REFLECTIVE TAPE BORDER.
- 4. SIGNAL HEADS D, E, M, AND N SHALL BE PROGRAMMABLE VISIBILITY. ONLY GREEN INDICATIONS SHALL BE PROGRAMMED TO LIMIT VISIBILITY TO AREA BETWEEN BELAIR STREET AND ASHLEY BOULEVARD IN BOTH DIRECTIONS.

PREFERENTIAL PHASING SEQUENCE



DETECTOR CONTROLLING PHASE

PREFERENTIAL PHASING SEQUENCE NOTES: 1. IF THE ASSIGNED RIGHT OF WAY FOR ANY TRAFFIC MOVEMENT IS TO REMAIN IN EFFECT DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT TRAFFIC MOVEMENT SHALL NOT CHANGE DURING THE CHANGE INTERVAL(S) UNLESS OTHERWISE NOTED.

FIRE PREEMPTION SCHEDULE

APPROACH	PREEMPTION PHASE	NEXT PHASE CALLED			
SOUTHBOUND	R1	2			
NORTHBOUND	R2	1			
NORTHWESTBOUND	R3	1			
EASTBOUND	R4	1			

EMERGENCY VEHICLE PREEMPTION OPERATION NOTES:

- 1. EMERGENCY VEHICLE PREEMPTION SHALL BE ACTUATED BY AN OPTICAL SIGNAL FROM AN OPTICAL EMITTER MOUNTED ON AN EMERGENCY VEHICLE AND RECEIVED BY AN OPTICAL DETECTOR LOCATED AT THE INTERSECTION. A SEPARATE RECEIVING DETECTOR IS REQUIRED FOR EACH DETECTED APPROACH. 2. PREEMPTION SIGNALS FROM MULTIPLE APPROACHES SHALL BE SERVICED ON A FIRST DETECTED, FIRST
- SERVED BASIS.
- 3. IN RESPONSE TO A PREEMPTION SIGNAL RECEIVED AT AN INTERSECTION, THE CONTROLLER SHALL TIME THE CLEARANCE INTERVALS OF THE ACTIVE PHASE (IF DIFFERENT THAN THAT TO BE SERVICED) AND ADVANCE TO AND/OR HOLD IN EMERGENCY VEHICLE PREEMPTION PHASE UNTIL PREEMPTION SIGNAL CEASES. THE CONTROLLER SHALL THEN TIME CLEARANCES AND SIMILARLY SERVICE OTHER EMERGENCY VEHICLE PREEMPTION SEQUENCES IN THE ORDER RECEIVED (IF RECEIVED). OTHERWISE, RESUME NORMAL PREFERENTIAL PHASE SEQUENCE.
- 4. PREEMPTION MINIMUM GREENS SHALL BE 10 SECONDS.
- 5. ACTUAL TIMING FOR PREEMPTION SHALL BE DETERMINED IN THE FIELD IN COORDINATION WITH THE FIRE DEPARTMENT AND SHALL BE APPROVED BY CITY OF NEW BEDFORD PRIOR TO OPERATION.

	ı	
		MAJOR ITEMS REQUIRED
PAY ITEM	QUANTITY	ITEM
	1	SERVICE CONNECTION WITH DISCONNECT, TYPE OVERHEAD
	1	UNINTERRUPTED POWER SUPPLY SYSTEM
	1	EVERSOURCE APPROVED HANDHOLE 17 X 30 INCHES
	1	CONTROLLER NEMA 8-PHASE TS2-TYPE 1, CAB, FDN, & CONC PAD
	3	8' SIGNAL POLE, BASE, & FDN
	2	10' SIGNAL POLE, BASE, & FDN
	1	15 FT TYPE II, GALV. STEEL MAST ARM ASSEMBLY (PAINTED POWDER COATED BLACK), BASE & FDN
	1	30 FT TYPE II, GALV. STEEL MAST ARM ASSEMBLY (PAINTED POWDER COATED BLACK), BASE & FDN
	1	35 FT TYPE II, GALV. STEEL MAST ARM ASSEMBLY (PAINTED POWDER COATED BLACK), BASE & FDN
	1	40 FT TYPE II, GALV. STEEL MAST ARM ASSEMBLY (PAINTED POWDER COATED BLACK), BASE & FDN
	12	1 WAY, 3 SECTION, SIGNAL HOUSING (12" LED)
	4	1 WAY, 3 SECTION, SIGNAL HOUSING, PROGRAMMABLE VISIBILITY (12" LED)
_	16	5" NON-LOUVERED SIGNAL BACKPLATES W/ RETROREFLECTIVE BORDERS
816.01	10	PEDESTRIAN SIGNAL HEAD, SINGLE SECTION W/ COUNTDOWN TIMER
ò	10	ACCESSIBLE PEDESTRIAN SIGNAL (APS) PUSH BUTTON ASSEMBLY W/ SIGN & SADDLE
	7	MAST ARM MOUNTED VIDEO DETECTION CAMERA
	1	2-CHANNEL VIDEO PROCESSOR AND APPLIANCES
	1	ENVIRONMENTALLY HARDENED 8 PORT ETHERNET SWITCH
	4	EMERGENCY PREEMPTION RECEIVER-SINGLE CHANNEL
	2	EMERGENCY PREEMPTION PHASE SELECTOR MODULE-DUAL CHANNEL
	2	EMERGENCY PREEMPTION CONFIRMATION BEACON (WHITE)
811.22	1	ELECTRIC HANDHOLE 12 X 24 INCHES - SD2.022
811.31	7	PULL BOX 12 X 12 INCHES - SD2.031

PLUS ALL NECESSARY DUCT, CABLE, LABOR, MISCELLANEOUS MATERIAL AND EQUIPMENT TO COMPLETE INSTALLATION.

CONSTRUCTION NOTES:

1. PER MASSDOT STANDARD DRAWINGS AND ENGINEERING DIRECTIVE E-16-001, USE MAST ARM FOUNDATION DESIGN WIND SPEED OF 130 MPH.

VIDEO DETECTOR DATA

				•	
DETECTOR NUMBER	Ø CALLED	Ø EXT	MODE A=PULSE B=PRES	SIZE	DELAY
1	1	1	В	6'x40'	-
2	1	1	В	6'x40'	-
3	1	1	В	6'x40'	-
4	2	2	В	6'x40'	-
5	1	1	В	6'x40'	-
6	2	2	В	6'x40'	-
7	4	4	В	6'x40'	5
8	4	4	В	6'x40'	-
9	4	4	В	6'x40'	5
(10)	2	2	В	6'x40'	-
11)	1	1	В	6'x40'	-

PROJECT #:	Y18285.11	350 N
DATE:	5/13/2020	
DESIGNER:	NRW	TE FA
DRAFTER:	NRW	14
REVIEWER:	PV	Ti

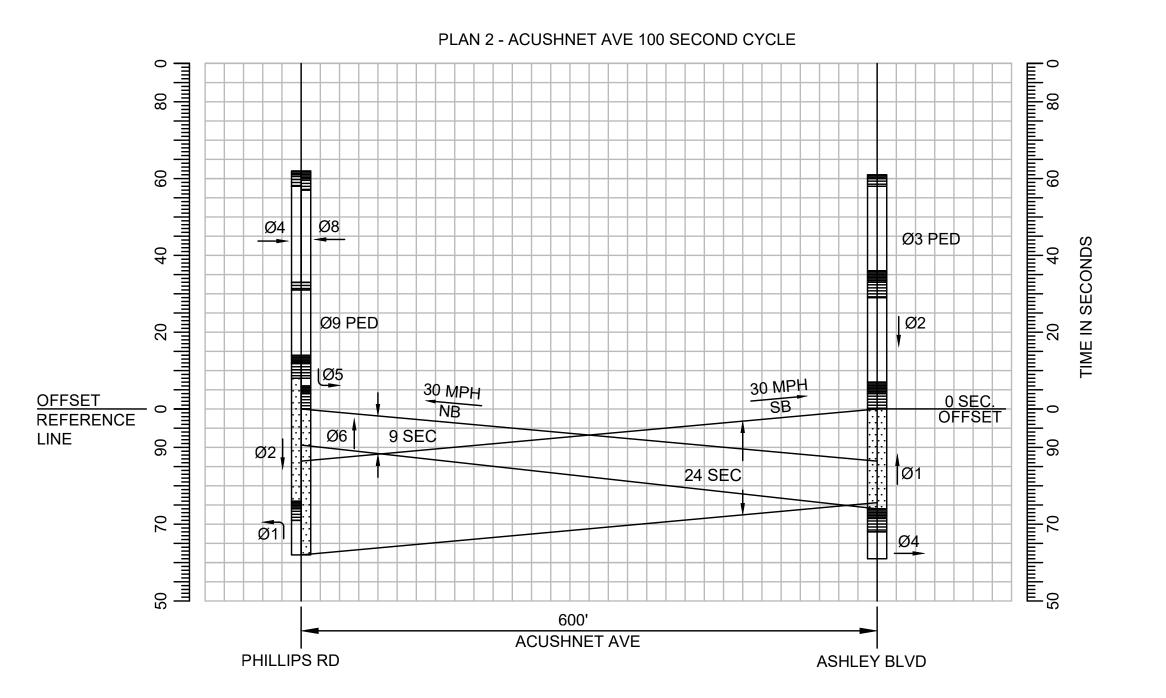
LINCOLN, RI 02865 TELE: (401) 648 - 7200

MYLES STANDISH BLVD 120 WATER ST 4TH FLOOR SUITE 103 TAUNTON, MA BOSTON, MA 02109 TELE: (508) 823 - 2245 TELE: (617) 556 - 0020 FAX: (508) 823 - 2246 FAX: (617) 556 - 0025 BREAKNECK HILL RD SUITE 201

94 NORTH ELM STREET SUITE 308 WESTFIELD, MA TELE: (413) 875 - 8855

-			
	REVISIONS	REV#	DATE
	AS-BUILT PLANS		TOTAL
		SHEET#	SHEETS
	CUMBERLAND FARMS		
	ACUSHNET AVE AT ASHLEY BLVD	2	3
	NEW BEDFORD, MA		

PLAN 1 - ACUSHNET AVE 90 SECOND CYCLE PHILLIPS RD PLAN 1 - ACUSHNET AVE 90 SECOND CYCLE OR OFFSET OR OFFSE



ACUSHNET AVENUE AT ASHLEY BOULEVARD <u>COORDINATION DATA</u> (ALL ENTRIES IN SECONDS)

	PLAN 1	PLAN 2
CYCLE LENGTH	90 SEC	100 SEC
OFFSET	88	0
Ø1	27	33
Ø2	25	29
Ø3 - PEDESTRIAN	25	25
Ø4	13	13
COORDINATED PHASE	Ø1	Ø1

ACUSHNET AVENUE AT PHILLIPS ROAD <u>COORDINATION DATA</u> (ALL ENTRIES IN SECONDS)

	PLAN 1	PLAN 2
CYCLE LENGTH	90 SEC	100 SEC
OFFSET	0	0
Ø1 & Ø6	11	14
Ø2 & Ø6	31	30
Ø2 & Ø5	8	8
Ø9 - PEDESTRIAN	19	19
Ø4 & Ø8	21	29
COORDINATED PHASE	Ø2 & Ø6	Ø2 & Ø6
·		

COORDINATION NOTES:

- OFFSET TO BEGINNING OF FIRST COORDINATED PHASE TURNING YELLOW.
- 2. ALL COORDINATION PHASE TIMES INCLUDE YELLOW AND RED
- CLEARANCE TIME.
 3. COORDINATED PHASE DETECTORS SHALL BE DISABLED DURING
- COORDINATION.
- 4. COORDINATION MODE SHALL BE PERMISSIVE. FLOATING FORCE OFFS SHALL BE IN EFFECT DURING COORDINATION.
- 5. OFFSET SEEKING SHALL BE THE SHORTWAY METHOD.
- COORDINATION SHALL BE SET AS ABOVE, AND CAN BE FINE TUNED AFTER CONSTRUCTION.
 - PROJECT #: Y18285.1

 DATE: 5/13/202

 DESIGNER: NRV

 DRAFTER: NRV

 REVIEWER: PA

		ATIONI			
		AHON			
		ENGINEERS & PLANNERS			
285.11	350 MYLES STANDISH BLVD	120 WATER ST			
3/2020	SUITE 103	4TH FLOOR	REVISIONS	REV#	DATE
3/2020	TAUNTON, MA TELE: (508) 823 - 2245	BOSTON, MA 02109 TELE: (617) 556 - 0020	AS-BUILT PLANS		TOTAL
NRW	FAX: (508) 823 - 2246	FAX: (617) 556 - 0025		SHEET#	SHEETS
NRW	14 BREAKNECK HILL RD	94 NORTH ELM STREET	CUMBERLAND FARMS		
INICAN	SUITE 201	SUITE 308	ACUSHNET AVE AT ASHLEY BLVD		2
PV	LINCOLN, RI 02865 TELE: (401) 648 - 7200	WESTFIELD, MA TELE: (413) 875 - 8855		3	3
	(.0.) 0 10 7200	() 676 888	NEW BEDFORD, MA		