

**NOTE**

COORDINATION TIMING SHOULD BE OBTAINED FROM EXISTING CONTROLLER

**REMOVALS**

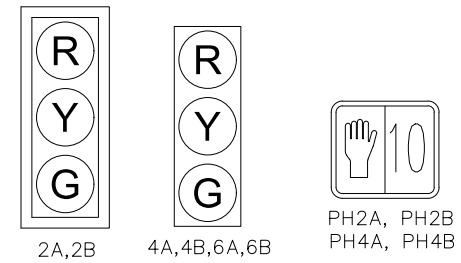
1. CONTROLLER
2. VEHICULAR SIGNAL HEADS (6)
3. PEDESTRIAN SIGNAL HEADS (4)
4. PEDESTRIAN PUSHBUTTONS (2)

**PROPOSED WORK**

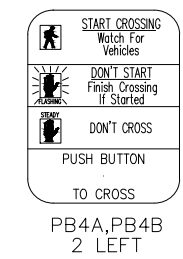
1. REPLACE CONTROLLER
2. REPLACE VEHICULAR SIGNALS
3. REPLACE PEDESTRIAN SIGNALS
4. REPLACE PUSH BUTTONS
5. INSTALL GPS TIME CLOCK

AFTER REMOVAL, THESE ITEMS ARE TO BE RETURNED TO MT. HEALTHY FOR STORAGE.

**EXISTING SIGNALS  
(TO BE REPLACED)**



**PROPOSED SIGN**



ITEM	DESCRIPTION	UNIT	QUANT
632	VEHICULAR SIGNAL HEAD, MISC.: 3-SECTION VEH SIGNAL HEAD, (LED), 12" LENS, 1-WAY, W/ BACKPLATE	EACH	2
632	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN	EACH	4
632	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN	EACH	4
632	PEDESTRIAN PUSHBUTTON, AS PER PLAN	EACH	2
632	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM, CONTROLLER	EACH	1
632	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM, VEHICULAR SIGNAL HEADS	EACH	6
632	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM, PEDESTRIAN SIGNAL HEADS	EACH	4
632	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM, PEDESTRIAN PUSH BUTTON	EACH	2
633	CONTROLLER UNIT, TYPE 2070E WITH 2070-1C CPU, AS PER PLAN	EACH	1
633	GPS (GLOBAL POSITIONING SYSTEM) CLOCK ASSEMBLY	EACH	1
633	CONTROLLER ITEM MISC; DC ISOLATOR	EACH	2
633	CONTROLLER ITEM MISC; LOAD SWITCH	EACH	5
633	CONTROLLER ITEM MISC; MERCURY RELAY	EACH	1
633	CONTROLLER ITEM MISC; CONFLICT MONITOR	EACH	1

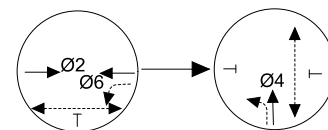
**TRAFFIC SIGNAL CONTROLLER TIMING CHART**

INTERSECTION: COMPTON RD. & FOREST AVE.  
MAINTAINING AGENCY: MT. HEALTHY

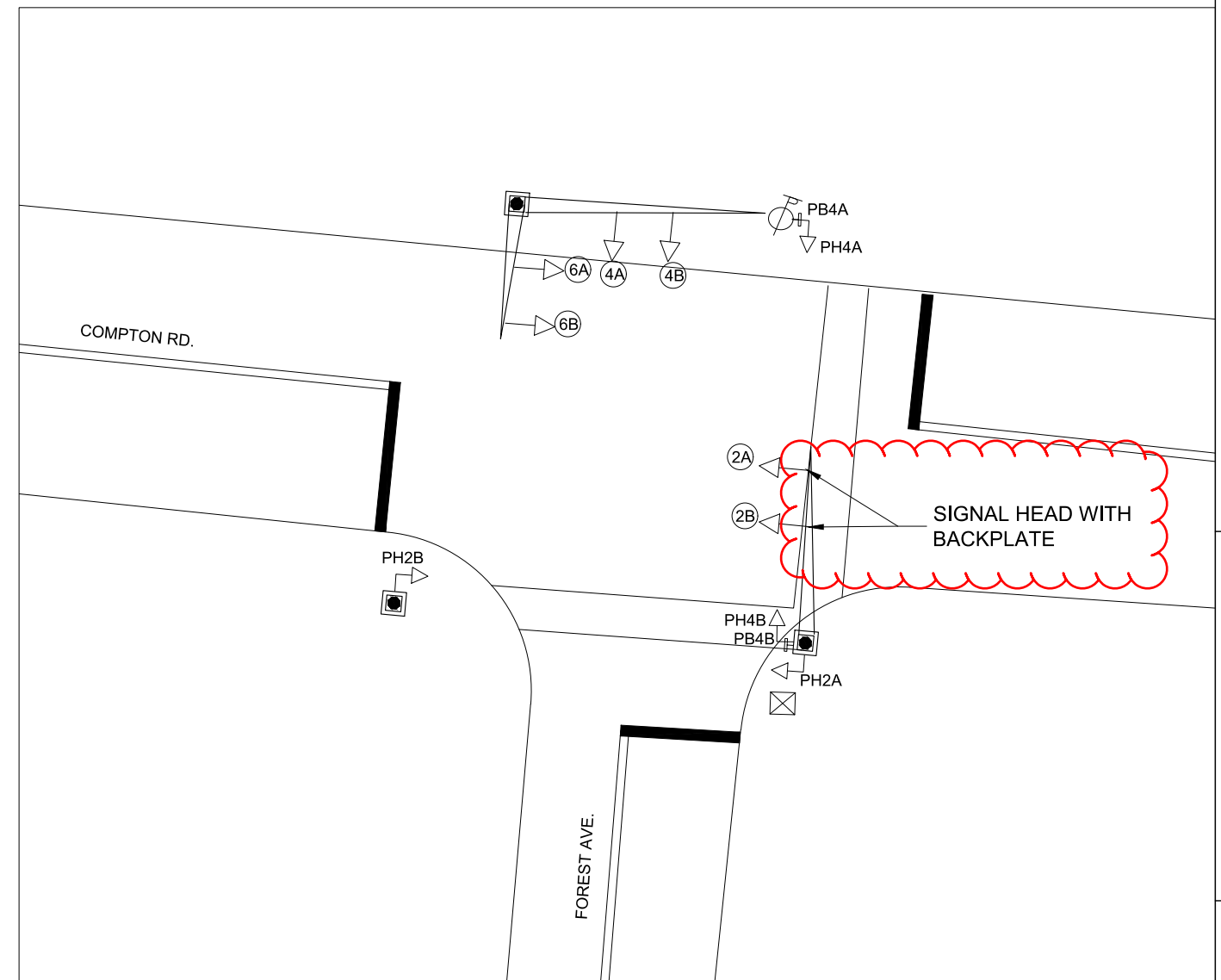
START UP  
START IN: Y/R FLASH ⊗; ALL RED ○  
TIME FOR FLASH OR ALL RED 10 SEC.  
FIRST PHASE 2+6  
COLOR DISPLAYED: GREEN ⊗; YELLOW ○

DUAL ENTRY ⊗ 2+6, 4+8  
REST IN RED: R1○; R2○

INTERVAL OR FEATURE	CONTROLLER MOVEMENT			
	2	4	6	8
INTERSECTION MOVEMENT	EB	NB	WB	
MINIMUM GREEN (INITIAL) (SEC.)	20	7	20	
ADDED INITIAL (sec./actuation)				
PASSAGE TIME (PRESET GAP)	3	3	3	
MINIMUM GAP (SEC.)	0	0	0	
TIME TO REDUCE (SEC.)				
MAXIMUM GREEN I (SEC.)	60	40	60	
MAXIMUM GREEN II (SEC.)				
YELLOW CHANGE (SEC.)	3.0	3.0	3.0	
ALL RED CLEARANCE (SEC.)	2.5	2.5	2.5	
WALK (SEC.)	7	7		
PEDESTRIAN CLEARANCE (SEC.)	9	8		
RECALL	MAXIMUM (ON/OFF)	ON	OFF	ON
	MINIMUM (ON/OFF)	OFF	OFF	OFF
	PEDESTRIAN (ON/OFF)	ON	OFF	OFF
MEMORY (ON/OFF)	OFF	OFF	OFF	
CALL TO NON-ACTUATED	No 1			
	No 2			



PHASING DIAGRAM



CALCULATED EAS  
CHECKED JW

TRAFFIC SIGNAL PLAN  
COMPTON RD. & FOREST AVE.

HAM-MT HEALTHY SIGNALS

**NOTE**

COORDINATION TIMING SHOULD BE OBTAINED FROM EXISTING CONTROLLER

**REMOVALS**

1. CONTROLLER
2. VEHICULAR SIGNAL HEADS (8)
3. PEDESTRIAN SIGNAL HEADS (8)
4. PEDESTRIAN PUSHBUTTONS (4)

**PROPOSED WORK**

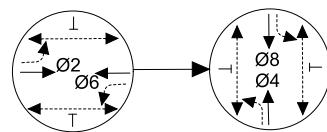
1. REPLACE CONTROLLER
2. REPLACE VEHICULAR SIGNALS
3. REPLACE PEDESTRIAN SIGNALS
4. REPLACE PUSH BUTTONS
5. INSTALL GPS TIME CLOCK

AFTER REMOVAL, THESE ITEMS ARE TO BE RETURNED TO MT. HEALTHY FOR STORAGE.

ITEM	DESCRIPTION	UNIT	QUANT
632	VEHICULAR SIGNAL HEAD, MISC.: 3-SECTION VEH SIGNAL HEAD, (LED), 12" LENS, 1-WAY, W/ BACKPLATE	EACH	2
632	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN	EACH	6
632	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN	EACH	8
632	PEDESTRIAN PUSHBUTTON	EACH	4
632	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM, CONTROLLER	EACH	1
632	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM, VEHICULAR SIGNAL HEADS	EACH	8
632	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM, PEDESTRIAN SIGNAL HEADS	EACH	8
632	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM, PEDESTRIAN PUSHBUTTONS	EACH	4
633	CONTROLLER UNIT, TYPE 2070E WITH 2070-1C CPU, AS PER PLAN	EACH	1
633	GPS (GLOBAL POSITIONING SYSTEM) CLOCK ASSEMBLY	EACH	1
633	CONTROLLER ITEM MISC; DC ISOLATOR	EACH	3
633	CONTROLLER ITEM MISC; LOAD SWITCH	EACH	9
633	CONTROLLER ITEM MISC; MERCURY RELAY	EACH	1
633	CONTROLLER ITEM MISC; CONFLICT MONITOR	EACH	1

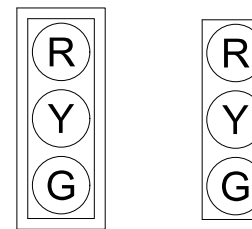
**TRAFFIC SIGNAL CONTROLLER TIMING CHART**

INTERSECTION: COMPTON RD. & HARRISON AVE. MAINTAINING AGENCY: MT. HEALTHY					
INTERVAL OR FEATURE	CONTROLLER MOVEMENT				
	2	4	6	8	
INTERSECTION MOVEMENT	EB	NB	WB	SB	
MINIMUM GREEN (INITIAL) (SEC.)	20	7	20	7	
ADDED INITIAL (sec./actuation)					
PASSAGE TIME (PRESET GAP)	3	3	3	3	
MINIMUM GAP (SEC.)	0	0	0	0	
TIME TO REDUCE (SEC.)					
MAXIMUM GREEN I (SEC.)	60	40	60	40	
MAXIMUM GREEN II (SEC.)					
YELLOW CHANGE (SEC.)	3.0	3.0	3.0	3.0	
ALL RED CLEARANCE (SEC.)	2.5	2.5	2.5	2.5	
WALK (SEC.)	7	7	7	7	
PEDESTRIAN CLEARANCE (SEC.)	14	15	15	13	
RECALL	MAXIMUM (ON/OFF)	ON	OFF	ON	OFF
	MINIMUM (ON/OFF)	OFF	OFF	OFF	OFF
	PEDESTRIAN (ON/OFF)	ON	OFF	ON	OFF
MEMORY (ON/OFF)	OFF	OFF	OFF	OFF	
CALL TO NON-ACTUATED	No 1				
	No 2				



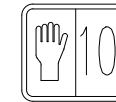
PHASING DIAGRAM

**EXISTING SIGNALS  
(TO BE REPLACED)**



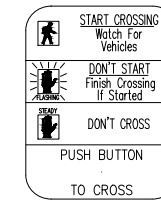
2A,2B

4A,4B,6A,6B,  
8A,8B

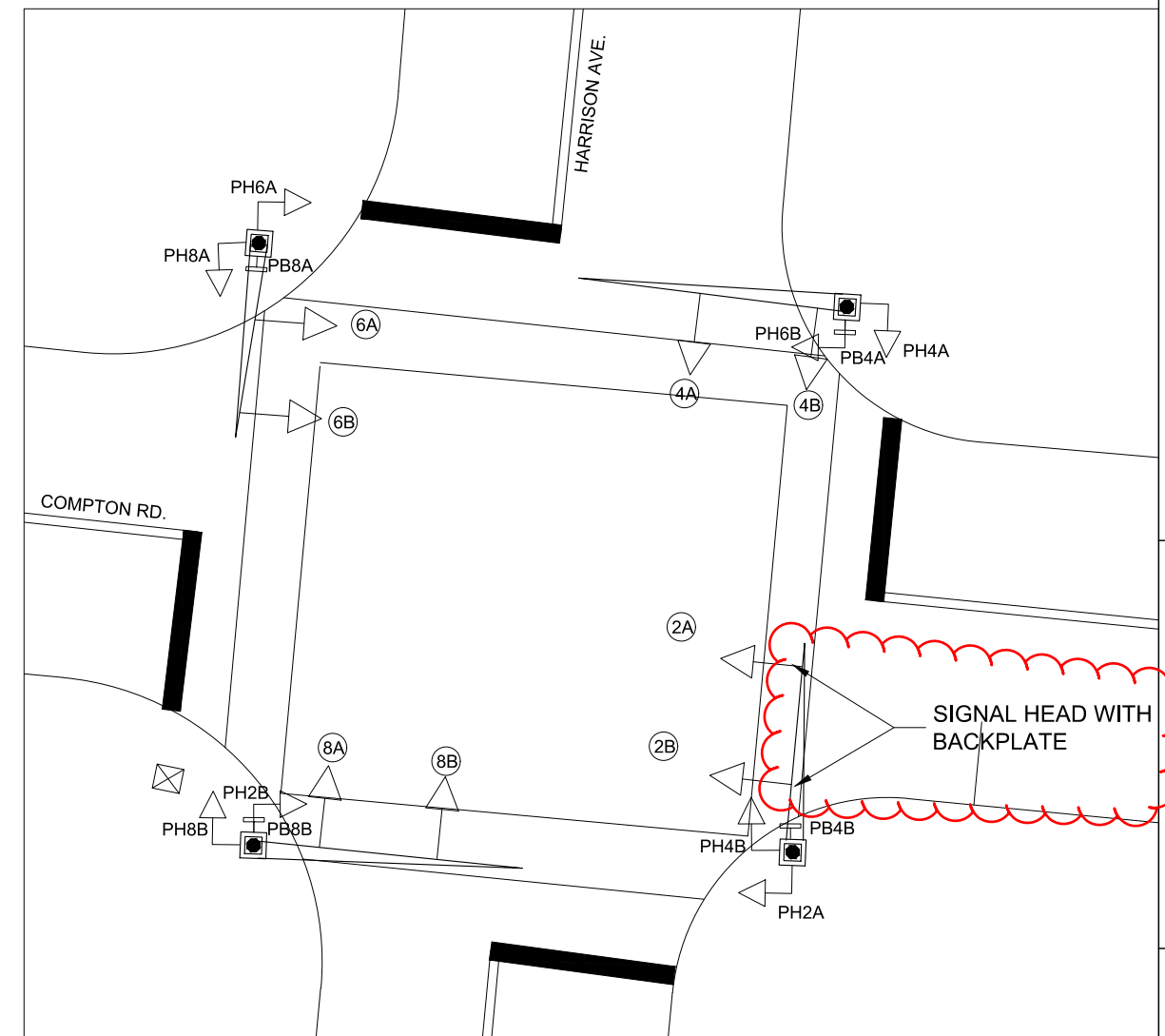


PH2A,PH2B,PH4A,PH4B,  
PH6A,PH6B,PH8A,PH8B

**PROPOSED SIGN**



PH4A, PH4B, PH8A, PH8B  
2 LEFT, 2 RIGHT



0 10 20  
HORIZONTAL SCALE IN FEET  
CALCULATED EAS  
CHECKED JW

TRAFFIC SIGNAL PLAN  
COMPTON RD. & HARRISON AVE

HAM-MT HEALTHY SIGNALS

**NOTE**  
COORDINATION TIMING SHOULD BE OBTAINED FROM EXISTING CONTROLLER

**REMOVALS**

1. CONTROLLER
  2. VEHICULAR SIGNAL HEADS (8)
  3. PEDESTRIAN SIGNAL HEADS (8)
  4. PEDESTRIAN PUSHBUTTONS (4)
- AFTER REMOVAL, THESE ITEMS ARE TO BE RETURNED TO MT. HEALTHY FOR STORAGE.

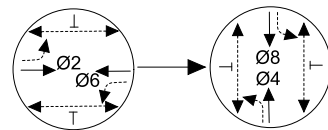
**PROPOSED WORK**

1. REPLACE CONTROLLER
2. REPLACE VEHICULAR SIGNALS
3. REPLACE PEDESTRIAN SIGNALS
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5. INSTALL GPS TIME CLOCK

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632	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN	EACH	6
632	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN	EACH	8
632	PEDESTRIAN PUSHBUTTON, AS PER PLAN	EACH	4
632	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM, CONTROLLER	EACH	1
632	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM, VEHICULAR SIGNAL HEADS	EACH	8
632	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM, PEDESTRIAN SIGNAL HEADS	EACH	8
632	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM, PEDESTRIAN PUSHBUTTONS	EACH	4
633	CONTROLLER UNIT, TYPE 2070E WITH 2070-1C CPU, AS PER PLAN	EACH	1
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633	CONTROLLER ITEM MISC; DC ISOLATOR	EACH	3
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633	CONTROLLER ITEM MISC; MERCURY RELAY	EACH	1
633	CONTROLLER ITEM MISC; CONFLICT MONITOR	EACH	1

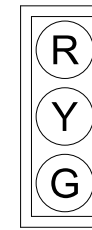
**TRAFFIC SIGNAL CONTROLLER TIMING CHART**

INTERSECTION: COMPTON RD. & ELIZABETH ST. MAINTAINING AGENCY: MT. HEALTHY						
START UP		DUAL ENTRY ⊗ 2+6, 4+8 REST IN RED: R1○; R2○				
START IN: Y/R FLASH ⊗; ALL RED ○		OVERLAP				
TIME FOR FLASH OR ALL RED 10 SEC.		PHASES				
FIRST PHASE 2+6						
COLOR DISPLAYED: GREEN ⊗; YELLOW ○						
INTERVAL OR FEATURE	CONTROLLER MOVEMENT					
	2	4	6	8		
INTERSECTION MOVEMENT	EB	NB	WB	SB		
MINIMUM GREEN (INITIAL) (SEC.)	20	7	20	7		
ADDED INITIAL (sec./actuation)						
PASSAGE TIME (PRESET GAP)	3	3	3	3		
MINIMUM GAP (SEC.)	0	0	0	0		
TIME TO REDUCE (SEC.)						
MAXIMUM GREEN I (SEC.)	20	40	20	40		
MAXIMUM GREEN II (SEC.)						
YELLOW CHANGE (SEC.)	3.0	3.0	3.0	3.0		
ALL RED CLEARANCE (SEC.)	2.5	2.5	2.5	2.5		
WALK (SEC.)	7.0	7	7.0	7		
PEDESTRIAN CLEARANCE (SEC.)	6.0	10	7.0	10		
RECALL	MAXIMUM (ON/OFF)	OFF	OFF	OFF	OFF	
	MINIMUM (ON/OFF)	OFF	OFF	OFF	OFF	
	PEDESTRIAN (ON/OFF)	ON	OFF	ON	OFF	
MEMORY (ON/OFF)	OFF	OFF	OFF	OFF		
CALL TO NON-ACTUATED	No 1					
	No 2					



PHASING DIAGRAM

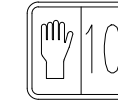
**EXISTING SIGNALS  
(TO BE REPLACED)**



2A, 2B

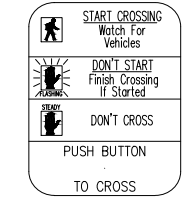


4A, 4B, 6A, 6B,  
8A, 8B

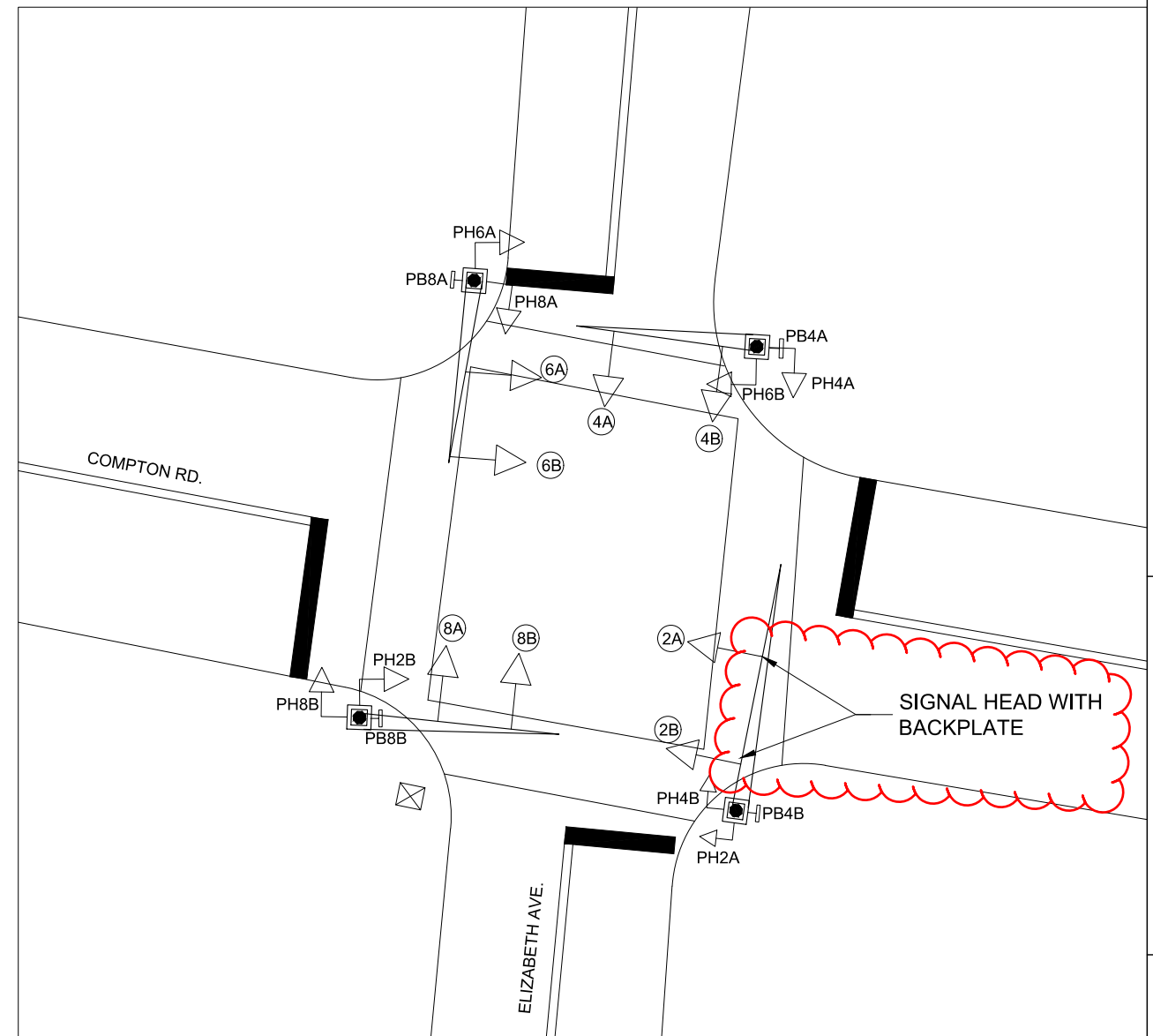


PH2A, PH2B, PH4A, PH4B,  
PH6A, PH6B, PH8A, PH8B

**PROPOSED SIGN**



PB4A, PB4B, PB8A, PB8B  
3 RIGHT, 1 LEFT



0 10 20  
HORIZONTAL SCALE IN FEET

CALCULATED EAS  
CHECKED JWW

TRAFFIC SIGNAL PLAN  
COMPTON RD. & ELIZABETH ST.

HAM-MT HEALTHY SIGNALS