

Appendix C:

Traffic Signal Data

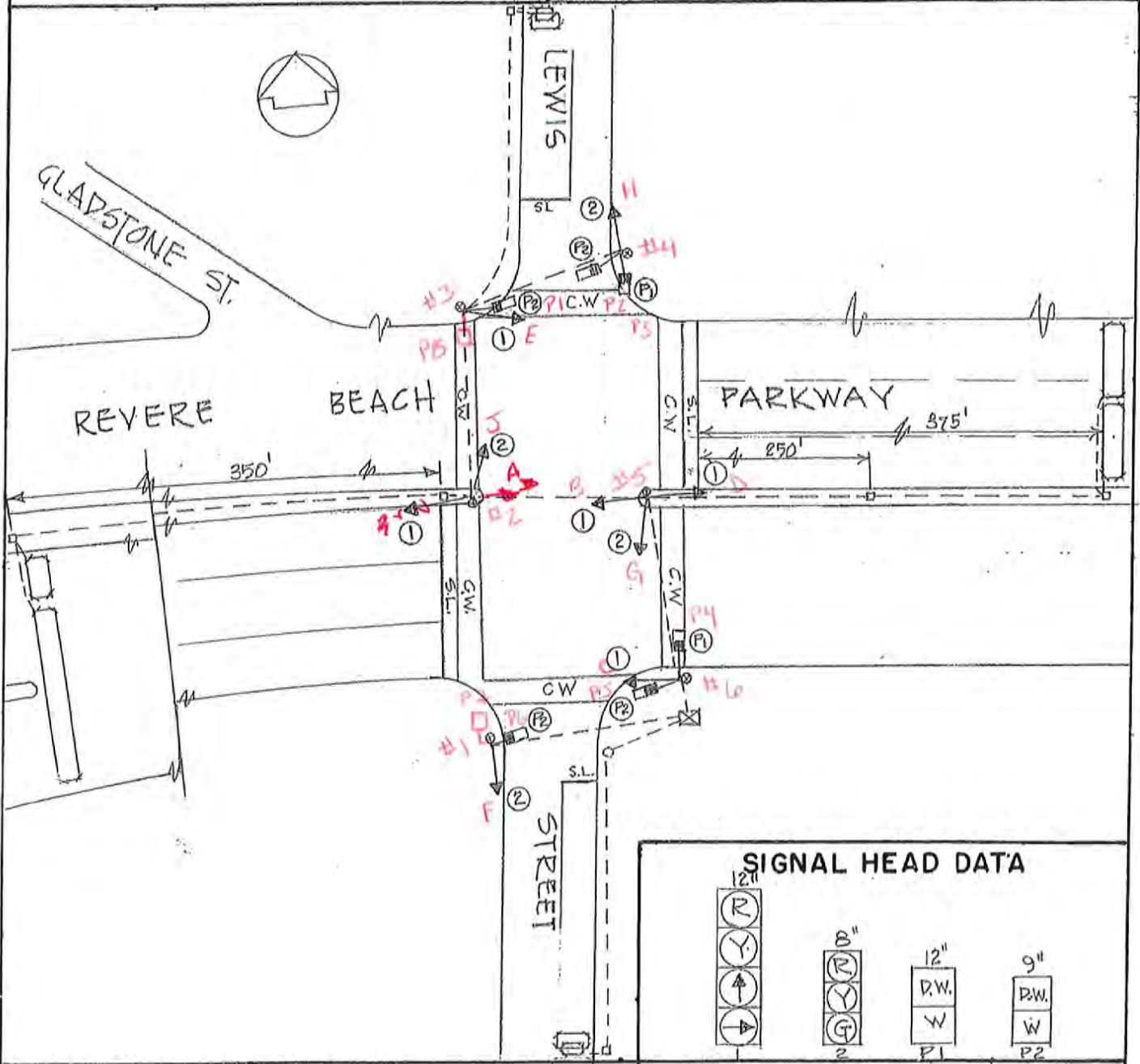
Existing Signal Timing Plans

Existing Signal Timing Plans

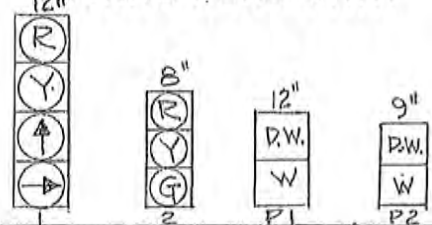
TRAFFIC SIGNAL LAYOUT

REVERE BEACH PARKWAY AND LEWIS STREET, EVERETT

SCALE: 1" = 40' Traffic Control Device No. 212 DATE: MAY 27, 1976



SIGNAL HEAD DATA



LEGEND

VEHICLE SIGNAL	→	WOODEN POLE	○
PEDESTRIAN SIGNAL	■	SIGNAL POST	•
CONTROL CABINET	⊠	MAST ARM	┆
LOOP DETECTOR	○	PULL BOX	□
MAGNETIC DETECTOR	⊠	CONDUIT	---
PED. PUSH BUTTON	⊙	OVERHEAD CABLE	-.-.-
TRAFFIC SIGNAL ASSESSMENT SECTION	⊙	ELECTRIC MANHOLE	⊙

NOTES



Traffic Signal Inventory

2. Controller Data

Eagle
Epac 300 M41
115402/OSS #090906

Manufacturer
Model No.
Serial No.

TYPE	CONDITION	CONTROLLER PHASE CAPABILITY
<input type="checkbox"/> Electromechanical <input type="checkbox"/> Non-NEMA <input type="checkbox"/> NEMA-Modular <input checked="" type="checkbox"/> NEMA-Keyboard	<input type="checkbox"/> Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> 2 Phase <input type="checkbox"/> 4 Phase <input checked="" type="checkbox"/> 8 Phase

CONTROLLER TYPE	SETTING TYPE
<input type="checkbox"/> Pretimed <input type="checkbox"/> Actuated <input checked="" type="checkbox"/> Semi-Actuated	<input type="checkbox"/> Pin <input type="checkbox"/> Thumbwheel <input type="checkbox"/> Dial <input checked="" type="checkbox"/> Keyboard

BACKPANEL SIZE	LOAD SWITCHES INSTALLED/TYPE	FLASH TRANSFER RELAYS INSTALLED
12P	3 – SSS-87-I/O	2 – Struthers-Dunn

SOFTWARE LEVEL SIZE	CONFLICT MONITOR MODEL/SIZE
3.33e May 2006	EDI MMU – 16E

FLASHER	INTERCONNECT CABLE (If Yes, List Size)	COORDINATED (If Yes, complete section 9)
PDC 204	No	Yes

DETECTOR/AMPLIFIERS	QUANTITY/TYPE
1 – EDI LMD 622t (2-channel)	

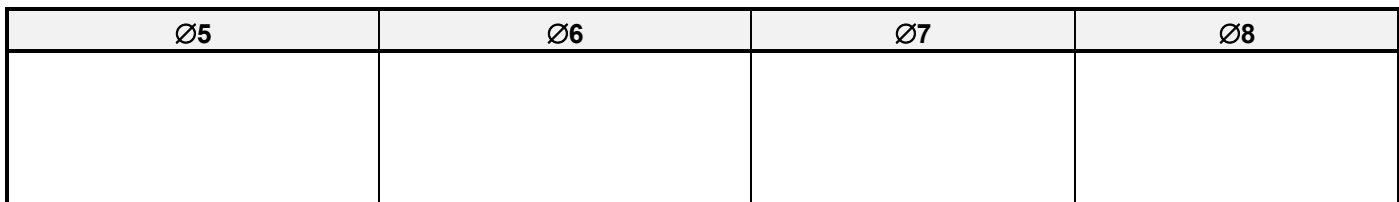
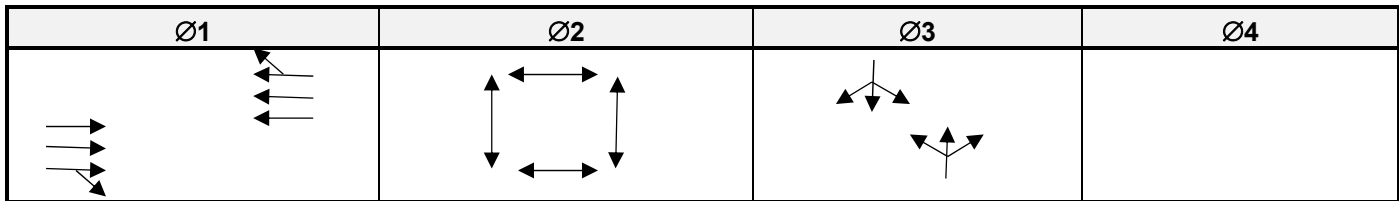


Traffic Signal Inventory

7. Signal Timing Sheet

Ø1 Route 16 EB/WB	Ø2 Pedestrian	Ø3 Lewis Street NB/SB
Ø4	Ø5	Ø6
Ø7	Ø8	OLA
OLB	OLC	OLD

PHASE	Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8
Minimum Green (initial)	20		12					
Extension (passage)	5		5					
Vehicle Interval								
Yellow	4	3	4					
Red Clear	2	1	1					
Maximum Green I	50		20					
Maximum Green II	50		20					
Pedestrian Walk		7						
Pedestrian Clear		28						
Seconds Per Act								
Time to Reduce								
Before Reduction								
Minimum Gap								
Pedestrian Gap								
Walk (flash/steady)								
Recall	MAX		Off					
Memory	Lock		Lock					
Delay								
FDW thru Vehicle Clearance		1						





Traffic Signal Inventory

9. Coordination Data for Eagle Controllers

SET-UP	CODE	0	1	2	3
Operation	1	FREE	AUTO	MANUAL	---
Mode (Normal)	0	PERM	YIELD	PM YLD	PM OMIT
Maximum	0	M INH	MAX 1	MAX 2	---
Correction	2	DWELL	MX DW	SH WAY	SW+
Offset	0	BEGIN	END	---	---
Force	0	PLAN	CYCLE	---	---

CYCLE LENGTH	1	2	3	4
Split 1	110	150		
Split 2				
Split 3				
Split 4				

CYCLE/OFFSET	1	2	3	4	5	6
1	55	80				
2						
3						
4						

Cycle/Split Modes: 0=Actuated; 1=Coord Phase; 2=Min Rec; 3=Max Rec; 4=Ped Rec; 5=Max+Ped Rec
6=Phase Omitted; 7=Dual Coord Phase

Cycle 1/Split 1	1	2	3	4	5	6	7	8	9
Time	52	37	21						
Mode	1								

Cycle 2/Split 1	1	2	3	4	5	6	7	8	9
Time	80	37	33						
Mode	1								

Cycle /Split	1	2	3	4	5	6	7	8	9
Time									
Mode									

Cycle /Split	1	2	3	4	5	6	7	8	9
Time									
Mode									

Cycle /Split	1	2	3	4	5	6	7	8	9
Time									
Mode									



Traffic Signal Inventory

2. Controller Data

Eagle
Epac 300 M51
134722/OSS #130807

Manufacturer
Model No.
Serial No.

TYPE	CONDITION	CONTROLLER PHASE CAPABILITY
<input type="checkbox"/> Electromechanical <input type="checkbox"/> Non-NEMA <input type="checkbox"/> NEMA-Modular <input checked="" type="checkbox"/> NEMA-Keyboard	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> 2 Phase <input type="checkbox"/> 4 Phase <input checked="" type="checkbox"/> 8 Phase

CONTROLLER TYPE	SETTING TYPE
<input type="checkbox"/> Pretimed <input checked="" type="checkbox"/> Actuated <input type="checkbox"/> Semi-Actuated	<input type="checkbox"/> Pin <input type="checkbox"/> Thumbwheel <input type="checkbox"/> Dial <input checked="" type="checkbox"/> Keyboard

BACKPANEL SIZE	LOAD SWITCHES INSTALLED/TYPE	FLASH TRANSFER RELAYS INSTALLED
12P	1 – TSC Cube 200 2 – SSS-87-I/O	2 – Struthers Dunn

SOFTWARE LEVEL SIZE	CONFLICT MONITOR MODEL/SIZE
3.34g Feb 2010	EDI MMU-16E

FLASHER	INTERCONNECT CABLE (If Yes, List Size)	COORDINATED (If Yes, complete section 9)
PDC 204	No	Yes

DETECTOR/AMPLIFIERS	QUANTITY/TYPE
2 – EDI LMD 622t (2-channel)	

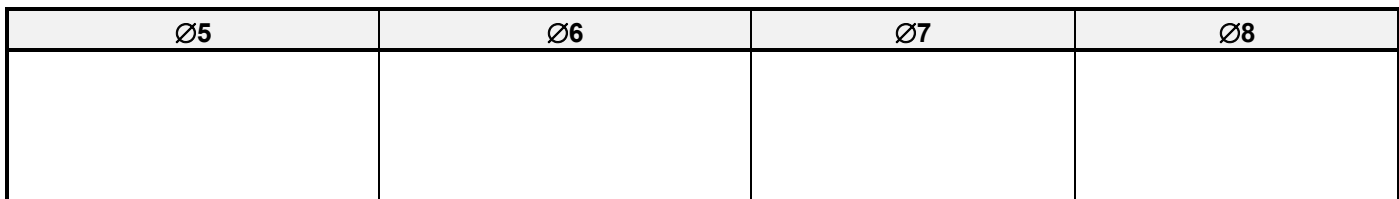
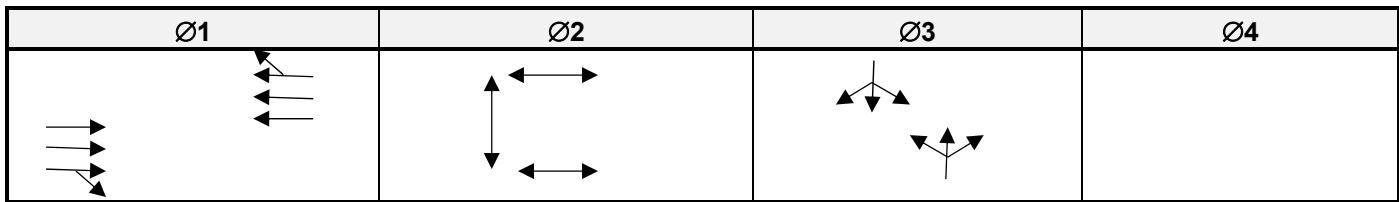


Traffic Signal Inventory

7. Signal Timing Sheet

Ø1 Route 16 EB/WB	Ø2 Pedestrian	Ø3 Second Street NB/SB
Ø4	Ø5	Ø6
Ø7	Ø8	OLA
OLB	OLC	OLD

PHASE	Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8
Minimum Green (initial)	15		8					
Extension (passage) Vehicle Interval	1.2		4					
Yellow	4	3	4					
Red Clear	1	1	1					
Maximum Green I	60		40					
Maximum Green II	60		40					
Pedestrian Walk		7						
Pedestrian Clear		29						
Seconds Per Act								
Time to Reduce Before Reduction								
Minimum Gap Pedestrian Gap								
Walk (flash/steady)								
Recall	MAX		Off					
Memory	NL		NL					
Delay								
FDW thru Vehicle Clearance		1						





Traffic Signal Inventory

9. Coordination Data for Eagle Controllers

SET-UP	CODE	0	1	2	3
Operation	1	FREE	AUTO	MANUAL	---
Mode (Normal)	0	PERM	YIELD	PM YLD	PM OMIT
Maximum	0	M INH	MAX 1	MAX 2	---
Correction	2	DWELL	MX DW	SH WAY	SW+
Offset	0	BEGIN	END	---	---
Force	0	PLAN	CYCLE	---	---

CYCLE LENGTH	1	2	3	4
Split 1	110	150		
Split 2				
Split 3				
Split 4				

CYCLE/OFFSET	1	2	3	4	5	6
1	47	68				
2						
3						
4						

Cycle/Split Modes: 0=Actuated; 1=Coord Phase; 2=Min Rec; 3=Max Rec; 4=Ped Rec; 5=Max+Ped Rec
6=Phase Omitted; 7=Dual Coord Phase

Cycle 1/Split 1	1	2	3	4	5	6	7	8	9
Time	44	38	28						
Mode	1								

Cycle 2/Split 1	1	2	3	4	5	6	7	8	9
Time	64	38	48						
Mode	1								

Cycle /Split	1	2	3	4	5	6	7	8	9
Time									
Mode									

Cycle /Split	1	2	3	4	5	6	7	8	9
Time									
Mode									

Cycle /Split	1	2	3	4	5	6	7	8	9
Time									
Mode									

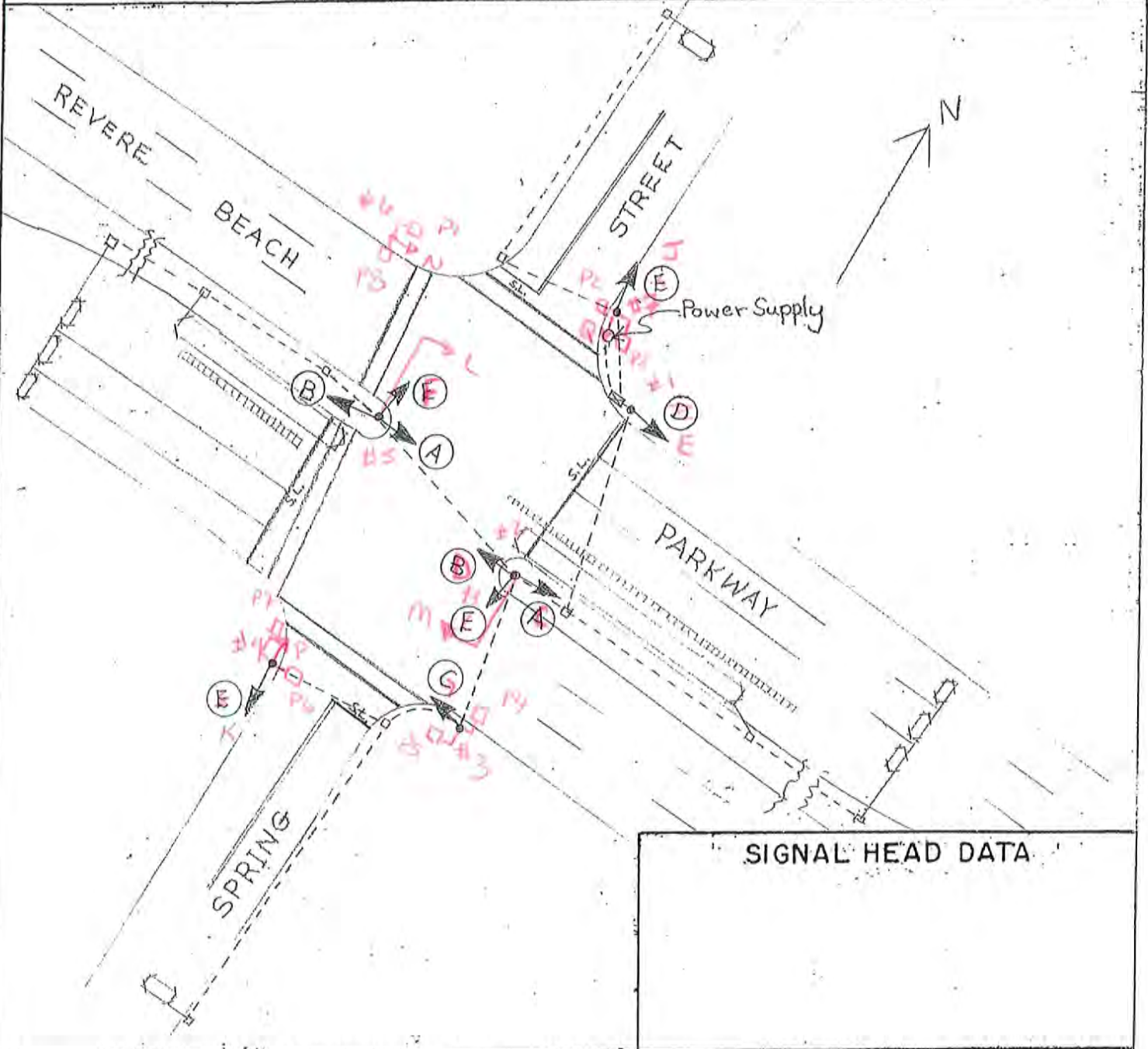
TRAFFIC SIGNAL LAYOUT

REVERE BEACH PARKWAY AND SPRING STREET, EVERETT

SCALE: 1" = 40'

Traffic Control Device No. 217

DATE: _____



SIGNAL HEAD DATA

LEGEND

- | | | | |
|-------------------|---|------------------|-------|
| VEHICLE SIGNAL | → | WOODEN POLE | ⊙ |
| PEDESTRIAN SIGNAL | ⊠ | SIGNAL POST | • |
| CONTROL CABINET | ⊠ | MAST ARM | —• |
| LOOP DETECTOR | ⊙ | PULL BOX | □ |
| MAGNETIC DETECTOR | ⊠ | CONDUIT | - - - |
| PED. PUSH BUTTON | ⊙ | OVERHEAD CABLE | ⋯ |
| TRAFFIC SIGN | ⊙ | ELECTRIC MANHOLE | ⊙EMH |

NOTES



Traffic Signal Inventory

2. Controller Data

Eagle
Epac 300 M41
111894 (OSS#010802)

Manufacturer
Model No.
Serial No.

TYPE	CONDITION	CONTROLLER PHASE CAPABILITY
<input type="checkbox"/> Electromechanical <input type="checkbox"/> Non-NEMA <input type="checkbox"/> NEMA-Modular <input checked="" type="checkbox"/> NEMA-Keyboard	<input type="checkbox"/> Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> 2 Phase <input type="checkbox"/> 4 Phase <input checked="" type="checkbox"/> 8 Phase

CONTROLLER TYPE	SETTING TYPE
<input type="checkbox"/> Pretimed <input checked="" type="checkbox"/> Actuated <input type="checkbox"/> Semi-Actuated	<input type="checkbox"/> Pin <input type="checkbox"/> Thumbwheel <input type="checkbox"/> Dial <input checked="" type="checkbox"/> Keyboard

BACKPANEL SIZE	LOAD SWITCHES INSTALLED/TYPE	FLASH TRANSFER RELAYS INSTALLED
12P	5 – PDC 200 1 – SSS-87-I/O	4

SOFTWARE LEVEL SIZE	CONFLICT MONITOR MODEL/SIZE
3.34g Feb 2010	EDI – MMU – 16E

FLASHER	INTERCONNECT CABLE (If Yes, List Size)	COORDINATED (If Yes, complete section 9)
1 – PDC 204	No	Yes

DETECTOR/AMPLIFIERS	QUANTITY/TYPE
3 - EDI LM 622t	

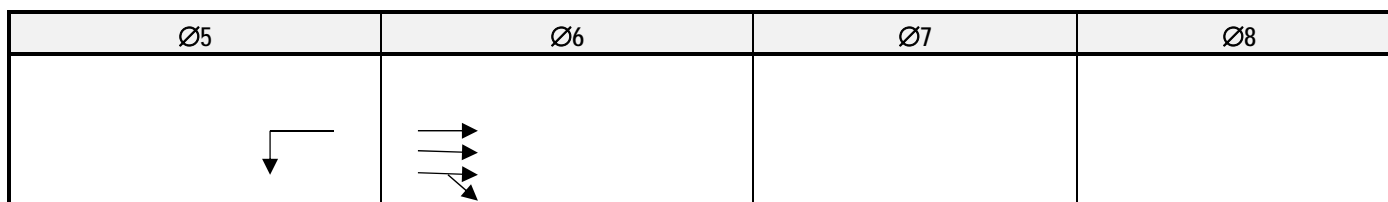
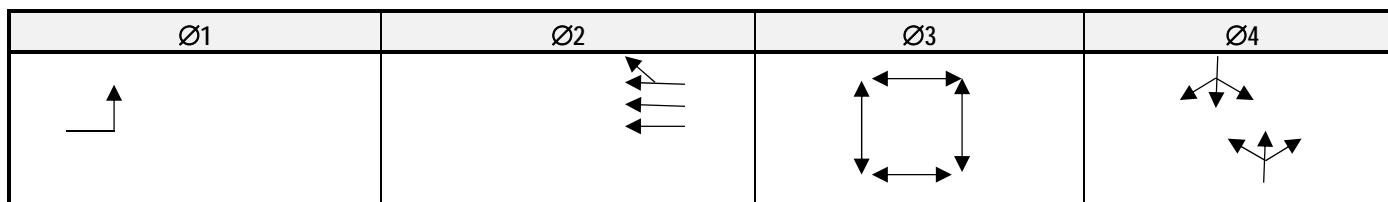


Traffic Signal Inventory

7. Signal Timing Sheet

Ø1 Route 16 EB Left	Ø2 Route 16 WB	Ø3 Pedestrian
Ø4 Spring Street NB/SB	Ø5 Route 16 WB Left	Ø6 Route 16 EB
Ø7	Ø8	OLA
OLB	OLC	OLD

PHASE	Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8
Minimum Green (initial)	8	12		8	8	12		
Extension (passage) Vehicle Interval	1	7		7	1	7		
Yellow	4	4	4	4	4	4		
Red Clear	1	1	1	2	1	1		
Maximum Green I	15	55		18	10	55		
Maximum Green II	15	40		25	15	40		
Pedestrian Walk			7					
Pedestrian Clear			29					
Seconds Per Act								
Time to Reduce								
Before Reduction								
Minimum Gap								
Pedestrian Gap								
Walk (flash/steady)								
Recall	Off	Soft		Off	Off	Soft		
Memory	NL	Lock		Lock	NL	Lock		
Delay								
FDW thru Vehicle Clearance			1					





Traffic Signal Inventory

9. Coordination Data for Eagle Controllers

SET-UP	CODE	0	1	2	3
Operation	1	FREE	AUTO	MANUAL	---
Mode (Normal)	0	PERM	YIELD	PM YLD	PM OMIT
Maximum	0	M INH	MAX 1	MAX 2	---
Correction	2	DWELL	MX DW	SH WAY	SW+
Offset	0	BEGIN	END	---	---
Force	0	PLAN	CYCLE	---	---

CYCLE LENGTH	1	2	3	4
Split 1	110	150		
Split 2				
Split 3				
Split 4				

CYCLE/OFFSET	1	2	3	4	5	6
1	44	71				
2						
3						
4						

Cycle/Split Modes: 0=Actuated; 1=Coord Phase; 2=Min Rec; 3=Max Rec; 4=Ped Rec; 5=Max+Ped Rec
6=Phase Omitted; 7=Dual Coord Phase

Cycle 1/Split 1	1	2	3	4	5	6	7	8	9
Time	15	39	38	18	14	40			
Mode		1				1			

Cycle 2/Split 1	1	2	3	4	5	6	7	8	9
Time	20	68	38	24	15	73			
Mode		1				1			

Cycle __/Split__	1	2	3	4	5	6	7	8	9
Time									
Mode									

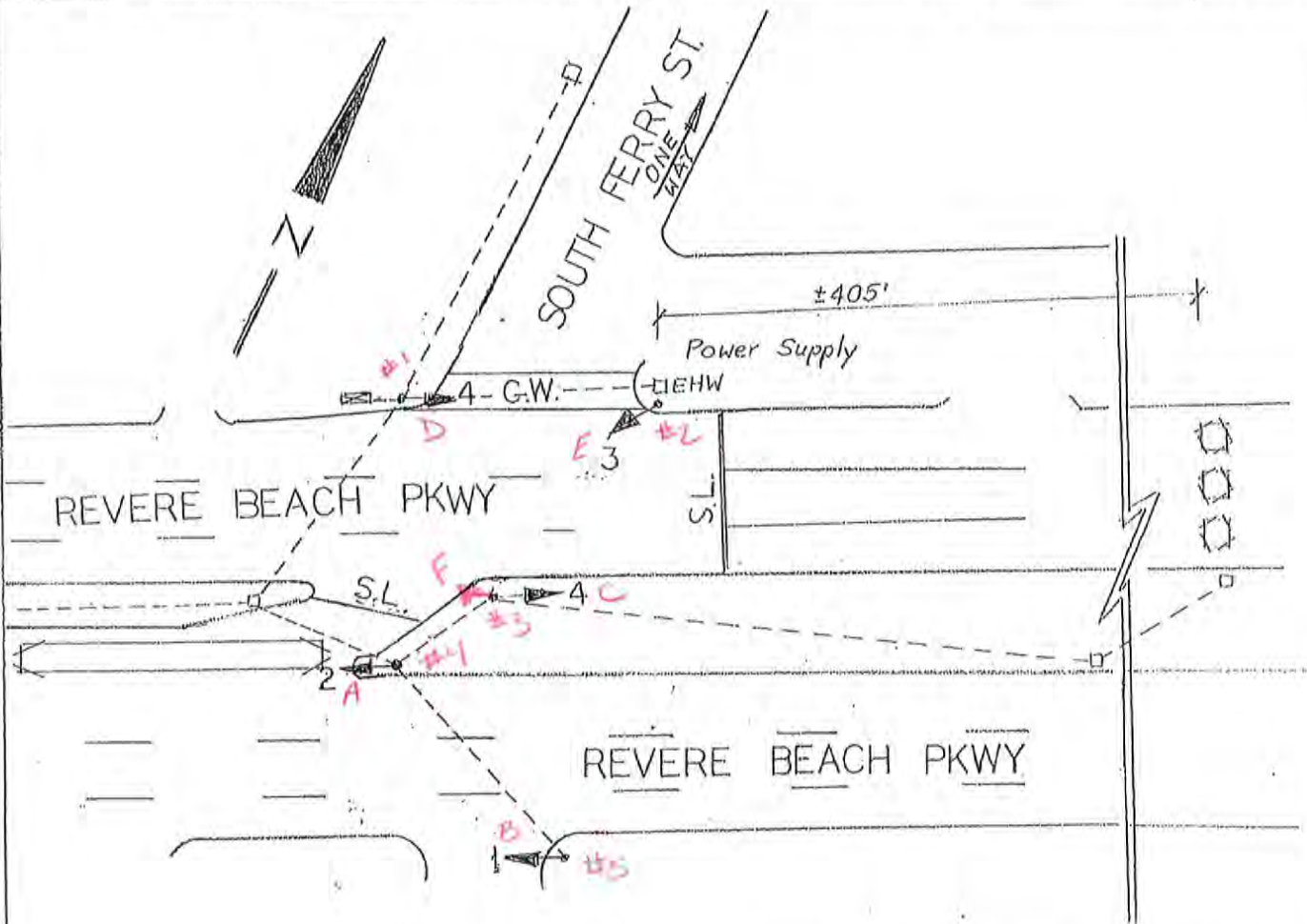
Cycle __/Split__	1	2	3	4	5	6	7	8	9
Time									
Mode									

Cycle __/Split__	1	2	3	4	5	6	7	8	9
Time									
Mode									

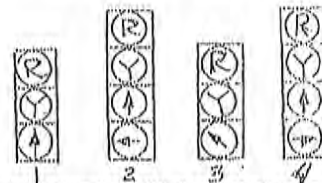
TRAFFIC SIGNAL LAYOUT
 REVERE BEACH PKWY AND SOUTH FERRY ST.

SCALE: 1" = 40'

DATE: December 10, 2000



SIGNAL HEAD DATA



LEGEND

VEHICLE SIGNAL	→	WOODEN POLE	◇
PEDESTRIAN SIGNAL	—■	SIGNAL POST	•
CONTROL CABINET	⊠	MAST ARM	—
LOOP DETECTOR	⊙	PULL BOX	□
MAGNETIC DETECTOR	⊠	CONDUIT	---
PED. PUSH BUTTON	⊙	OVERHEAD CABLE	— · —
TRAFFIC SIGN	⊠	ELECTRIC MANHOLE	⊙ E.M.H.

NOTES



Traffic Signal Inventory

2. Controller Data

Eagle
Epac 300 M51
#123149/OSS #110207

Manufacturer
Model No.
Serial No.

TYPE	CONDITION	CONTROLLER PHASE CAPABILITY
<input type="checkbox"/> Electromechanical <input type="checkbox"/> Non-NEMA <input type="checkbox"/> NEMA-Modular <input checked="" type="checkbox"/> NEMA-Keyboard	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> 2 Phase <input type="checkbox"/> 4 Phase <input checked="" type="checkbox"/> 8 Phase

CONTROLLER TYPE	SETTING TYPE
<input type="checkbox"/> Pretimed <input checked="" type="checkbox"/> Actuated <input type="checkbox"/> Semi-Actuated	<input type="checkbox"/> Pin <input type="checkbox"/> Thumbwheel <input type="checkbox"/> Dial <input checked="" type="checkbox"/> Keyboard

BACKPANEL SIZE	LOAD SWITCHES INSTALLED/TYPE	FLASH TRANSFER RELAYS INSTALLED
12P	3 – SSS-87-I/O	1 – STRUTHERS DUNN

SOFTWARE LEVEL SIZE	CONFLICT MONITOR MODEL/SIZE
3.35a Oct '09	EDI MMU-16E

FLASHER	INTERCONNECT CABLE (If Yes, List Size)	COORDINATED (If Yes, complete section 9)
1 – PDC 204	No	Yes

DETECTOR/AMPLIFIERS	QUANTITY/TYPE
2 – LMD 622t	



Traffic Signal Inventory

7. Signal Timing Sheet

Ø1 Route 16 EB/WB	Ø2 Route 16 EB Left & Thru	Ø3
Ø4	Ø5	Ø6
Ø7	Ø8	OLA
OLB	OLC	OLD

PHASE	Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8
Minimum Green (initial)	7	7						
Extension (passage)	8	1						
Vehicle Interval								
Yellow	4	4						
Red Clear	2	1						
Maximum Green I	55	37						
Maximum Green II	55	37						
Pedestrian Walk								
Pedestrian Clear								
Seconds Per Act								
Time to Reduce								
Before Reduction								
Minimum Gap								
Pedestrian Gap								
Walk (flash/steady)								
Recall	Min	Off						
Memory	NL	NL						
Delay								
FDW thru Vehicle Clearance								

Ø1	Ø2	Ø3	Ø4

Ø5	Ø6	Ø7	Ø8



Traffic Signal Inventory

9. Coordination Data for Eagle Controllers

SET-UP	CODE	0	1	2	3
Operation	1	FREE	AUTO	MANUAL	---
Mode (Normal)	0	PERM	YIELD	PM YLD	PM OMIT
Maximum	0	M INH	MAX 1	MAX 2	---
Correction	2	DWELL	MX DW	SH WAY	SW+
Offset	0	BEGIN	END	---	---
Force	0	PLAN	CYCLE	---	---

CYCLE LENGTH	1	2	3	4
Split 1	110	150		
Split 2				
Split 3				
Split 4				

CYCLE/OFFSET	1	2	3	4	5	6
1	20	147				
2						
3						
4						

Cycle/Split Modes: 0=Actuated; 1=Coord Phase; 2=Min Rec; 3=Max Rec; 4=Ped Rec; 5=Max+Ped Rec
6=Phase Omitted; 7=Dual Coord Phase

Cycle 1/Split 1	1	2	3	4	5	6	7	8	9
Time	75	35							
Mode	1								

Cycle 2/Split 1	1	2	3	4	5	6	7	8	9
Time	89	61							
Mode	1								

Cycle __/Split __	1	2	3	4	5	6	7	8	9
Time									
Mode									

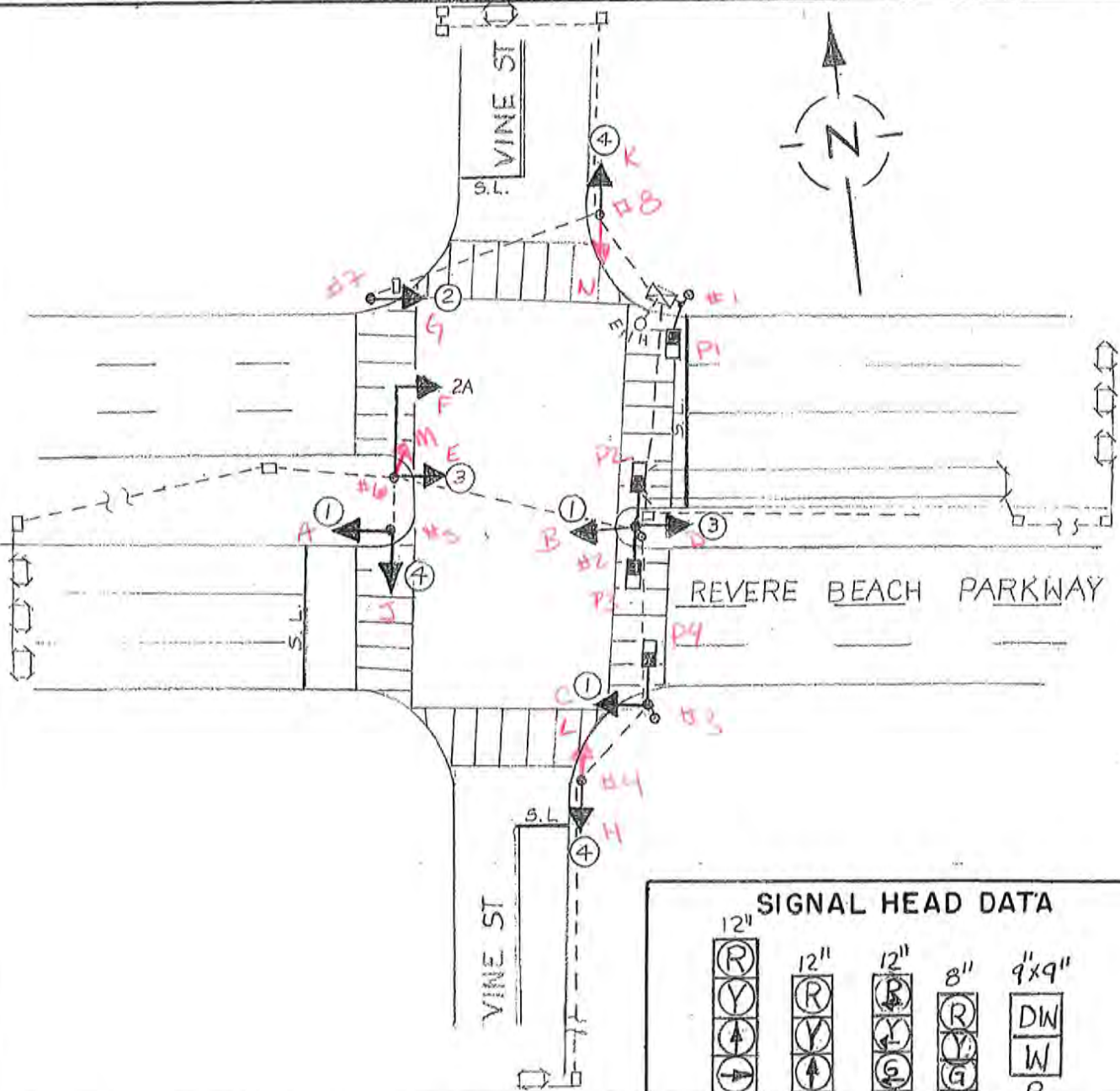
Cycle __/Split __	1	2	3	4	5	6	7	8	9
Time									
Mode									

Cycle __/Split __	1	2	3	4	5	6	7	8	9
Time									
Mode									

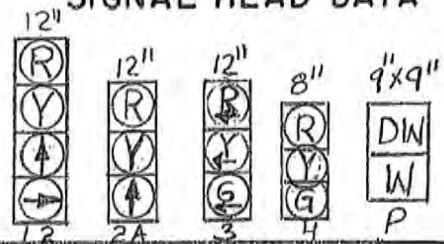
TRAFFIC SIGNAL LAYOUT

REVERE BEACH PARKWAY AND VINE STREET, EVERETT

SCALE: 1" = 40' TRAFFIC CONTROL DEVICE NO 219 DATE: FEBRUARY 12, 1982



SIGNAL HEAD DATA



LEGEND

VEHICLE SIGNAL	→	WOODEN POLE	⊙
PEDESTRIAN SIGNAL	—■	SIGNAL POST	•
CONTROL CABINET	⊠	MAST ARM	—
LOOP DETECTOR	⊙	PULL BOX	□
MAGNETIC DETECTOR	⊠	CONDUIT	---
PED. PUSH BUTTON	⊙	OVERHEAD CABLE	— —
TRAFFIC SIGN	⊙	ELECTRIC MANHOLE	⊙ E.M.H.

NOTES



Traffic Signal Inventory

2. Controller Data

Eagle
Manufacturer
Epac 300 M41
Model No.
86761 (OSS#041008)
Serial No.

TYPE	CONDITION	CONTROLLER PHASE CAPABILITY
<input type="checkbox"/> Electromechanical <input type="checkbox"/> Non-NEMA <input type="checkbox"/> NEMA-Modular <input checked="" type="checkbox"/> NEMA-Keyboard	<input type="checkbox"/> Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor *Controller has a Coviello Electric sticker (loaner?)	<input type="checkbox"/> 2 Phase <input type="checkbox"/> 4 Phase <input checked="" type="checkbox"/> 8 Phase

CONTROLLER TYPE	SETTING TYPE
<input type="checkbox"/> Pretimed <input checked="" type="checkbox"/> Actuated <input type="checkbox"/> Semi-Actuated Faults shown on Loop Amps	<input type="checkbox"/> Pin <input type="checkbox"/> Thumbwheel <input type="checkbox"/> Dial <input checked="" type="checkbox"/> Keyboard

BACKPANEL SIZE	LOAD SWITCHES INSTALLED/TYPE	FLASH TRANSFER RELAYS INSTALLED
12P	5 – SSS-87-I/O	3

SOFTWARE LEVEL SIZE	CONFLICT MONITOR MODEL/SIZE
3.33e May 2006	EDI MMU-16E

FLASHER	INTERCONNECT CABLE (If Yes, List Size)	COORDINATED (If Yes, complete section 9)
1 – PDC 204	NO	YES

DETECTOR/AMPLIFIERS	QUANTITY/TYPE
3 – EDI LM622t	

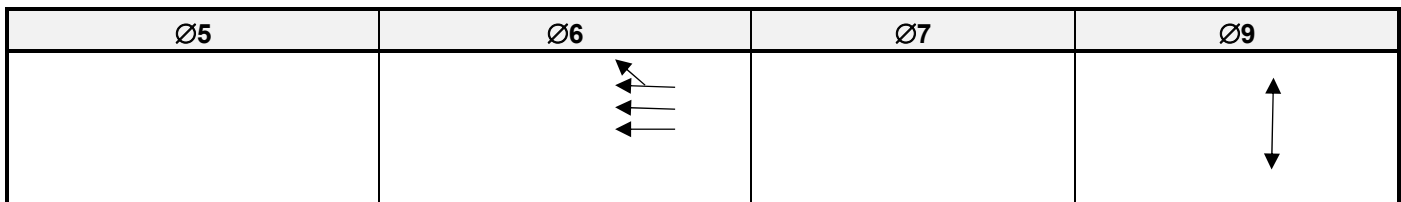
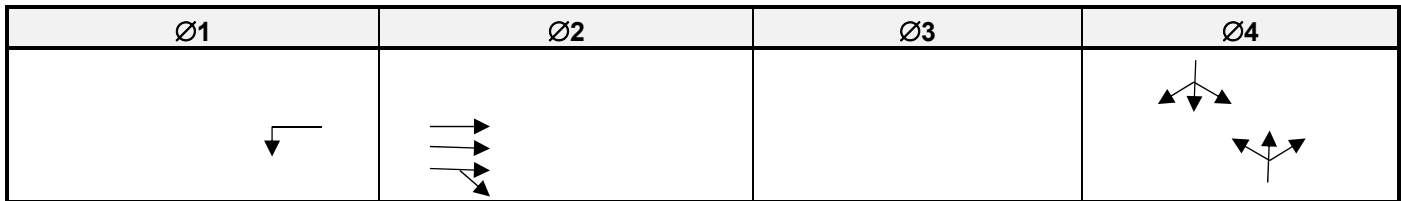


Traffic Signal Inventory

7. Signal Timing Sheet

Ø1 Route 16 WB Left	Ø2 Route 16 EB	Ø3
Ø4 Vine Street NB/SB	Ø5	Ø6 Route 16 WB
Ø7	Ø8	Ø9 Pedestrian
OLA	OLB	OLC

PHASE	Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8	Ø9
Minimum Green (initial)	8	12		8		12			
Extension (passage)	1	10		5		10			
Vehicle Interval									
Yellow	4	4		4		4			3
Red Clear	2	2		2		2			1
Maximum Green I	30	50		30		50			
Maximum Green II	30	50		30		50			
Pedestrian Walk		7		7		7		7	7
Pedestrian Clear		8		8		8		8	28
Seconds Per Act									
Time to Reduce									
Before Reduction									
Minimum Gap									
Pedestrian Gap									
Walk (flash/steady)									
Recall	Off	MAX		Off		MAX			
Memory	NL	Lock		Lock		Lock			
Delay									
FDW thru Vehicle Clearance									1





Traffic Signal Inventory

9. Coordination Data for Eagle Controllers

SET-UP	CODE	0	1	2	3
Operation	1	FREE	AUTO	MANUAL	---
Mode (Normal)	0	PERM	YIELD	PM YLD	PM OMIT
Maximum	0	M INH	MAX 1	MAX 2	---
Correction	2	DWELL	MX DW	SH WAY	SW+
Offset	0	BEGIN	END	---	---
Force	0	PLAN	CYCLE	---	---

CYCLE LENGTH	1	2	3	4
Split 1	110	150		
Split 2				
Split 3				
Split 4				

CYCLE/OFFSET	1	2	3	4	5	6
1	1	0				
2						
3						
4						

Cycle/Split Modes: 0=Actuated; 1=Coord Phase; 2=Min Rec; 3=Max Rec; 4=Ped Rec; 5=Max+Ped Rec
6=Phase Omitted; 7=Dual Coord Phase

Cycle 1/Split 1	1	2	3	4	5	6	7	8	9
Time	27	29		29		56			25
Mode		1				1			

Cycle 2/Split 1	1	2	3	4	5	6	7	8	9
Time	15	72		38		87			25
Mode		1				1			

Cycle __/Split __	1	2	3	4	5	6	7	8	9
Time									
Mode									

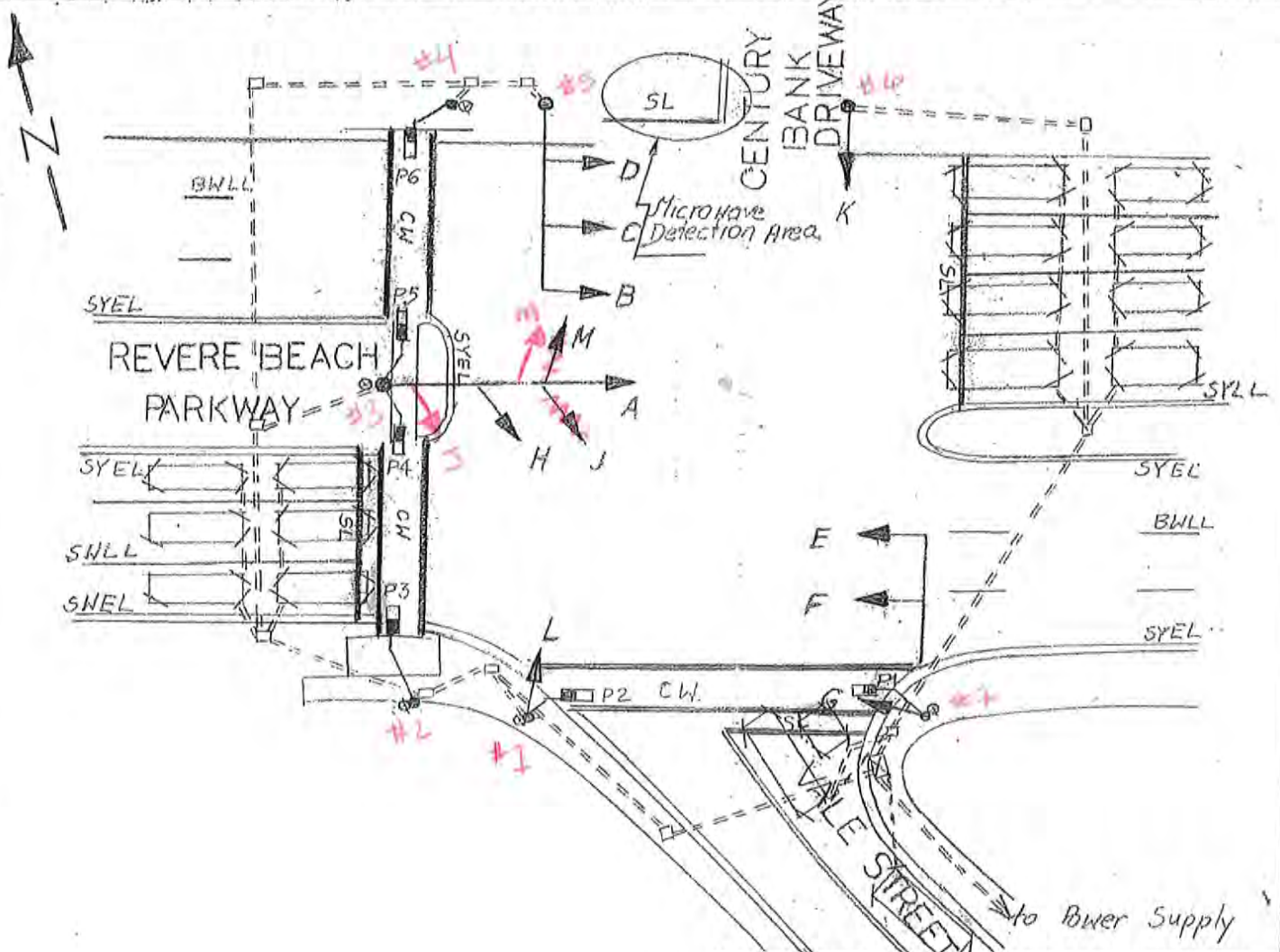
Cycle __/Split __	1	2	3	4	5	6	7	8	9
Time									
Mode									




Cycle __/Split __	1	2	3	4	5	6	7	8	9
Time									
Mode									















TRAFFIC SIGNAL LAYOUT

REVERE BEACH PARKWAY AT VALE STREET, EVERETT

SCALE: 1" = 40' Traffic Control Device No. 239 DATE: 1/11/02



SIGNAL HEAD DATA		
BCDEFGH	A	P1 - P6
JKLM		
		
All 12" Lens		

LEGEND			
VEHICLE SIGNAL		WOODEN POLE	
PEDESTRIAN SIGNAL		SIGNAL POST	
CONTROL CABINET		MAST ARM	
LOOP DETECTOR		PULL BOX	
MAGNETIC DETECTOR		CONDUIT	
PED. PUSH BUTTON		OVERHEAD CABLE	
TRAFFIC SIGN		ELECTRIC MANHOLE	

NOTES



Traffic Signal Inventory

2. Controller Data

Eagle
Manufacturer
Epac 300 M51
Model No.
138908/OSS#011028
Serial No.

TYPE	CONDITION	CONTROLLER PHASE CAPABILITY
<input type="checkbox"/> Electromechanical <input type="checkbox"/> Non-NEMA <input type="checkbox"/> NEMA-Modular <input checked="" type="checkbox"/> NEMA-Keyboard	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> 2 Phase <input type="checkbox"/> 4 Phase <input checked="" type="checkbox"/> 8 Phase

CONTROLLER TYPE	SETTING TYPE
<input type="checkbox"/> Pretimed <input checked="" type="checkbox"/> Actuated <input type="checkbox"/> Semi-Actuated	<input type="checkbox"/> Pin <input type="checkbox"/> Thumbwheel <input type="checkbox"/> Dial <input checked="" type="checkbox"/> Keyboard

BACKPANEL SIZE	LOAD SWITCHES INSTALLED/TYPE	FLASH TRANSFER RELAYS INSTALLED
12P	6 – PDC 200	4

SOFTWARE LEVEL SIZE	CONFLICT MONITOR MODEL/SIZE
3.51b JAN 2013	EDI MMU-16E

FLASHER	INTERCONNECT CABLE (If Yes, List Size)	COORDINATED (If Yes, complete section 9)
1 – PDC 204	NO	YES

DETECTOR/AMPLIFIERS	QUANTITY/TYPE
4 – EDI LM622t	

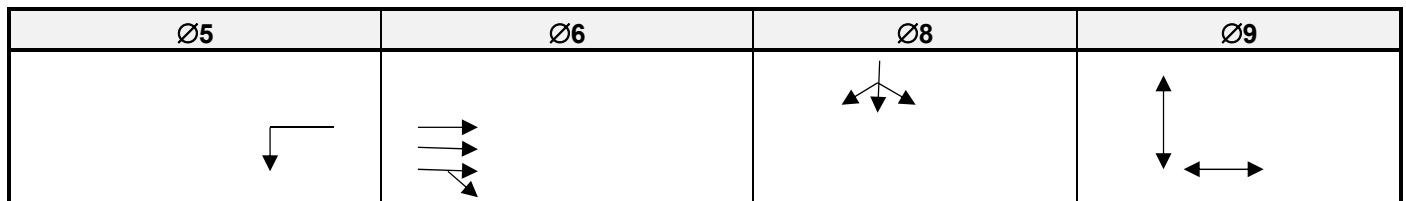
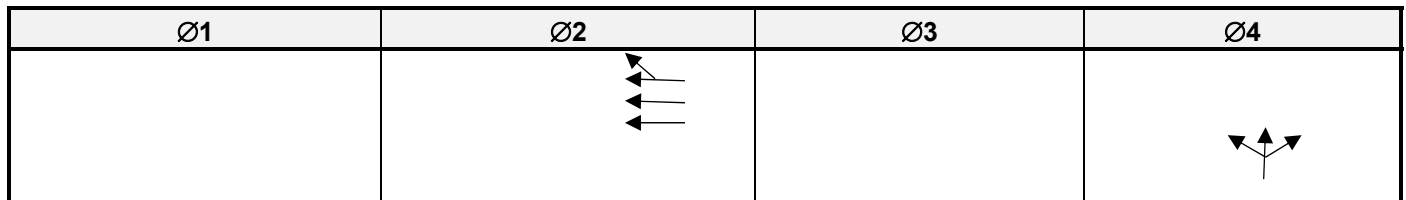


Traffic Signal Inventory

7. Signal Timing Sheet

Ø1	Ø2 Route 16 WB	Ø3
Ø4 Vale Street NB	Ø5 Route 16 WB Left	Ø6 Route 16 EB
Ø7	Ø8 Bank Driveway SB	Ø9 Pedestrian
OLA	OLB	OLC

PHASE	Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8	Ø9
Minimum Green (initial)		10		6	6	10		6	
Extension (passage)		2		2	2	2		1	
Vehicle Interval									
Yellow		4		4	4	4		4	4
Red Clear		1		1	1	1		1	1
Maximum Green I		50		25	10	50		10	
Maximum Green II									
Pedestrian Walk									7
Pedestrian Clear									26
Seconds Per Act									
Time to Reduce									
Before Reduction									
Minimum Gap									
Pedestrian Gap									
Walk (flash/steady)									
Recall		Soft		Off	Off	Soft		Off	
Memory		NL		NL	NL	NL		Lock	
Delay									
FDW thru Vehicle Clearance									1





Traffic Signal Inventory

9. Coordination Data for Eagle Controllers

SET-UP	CODE	0	1	2	3
Operation	1	FREE	AUTO	MANUAL	---
Mode (Normal)	0	PERM	YIELD	PM YLD	PM OMIT
Maximum	0	M INH	MAX 1	MAX 2	---
Correction	2	DWELL	MX DW	SH WAY	SW+
Offset	0	BEGIN	END	---	---
Force	0	PLAN	CYCLE	---	---

**Coordination
Program/Splits not
programmed**

CYCLE LENGTH	1	2	3	4
Split 1				
Split 2				
Split 3				
Split 4				

CYCLE/OFFSET	1	2	3	4	5	6
1						
2						
3						
4						

Cycle/Split Modes: 0=Actuated; 1=Coord Phase; 2=Min Rec; 3=Max Rec; 4=Ped Rec; 5=Max+Ped Rec
6=Phase Omitted; 7=Dual Coord Phase

Cycle 1/Split 1	1	2	3	4	5	6	7	8	9
Time									
Mode									

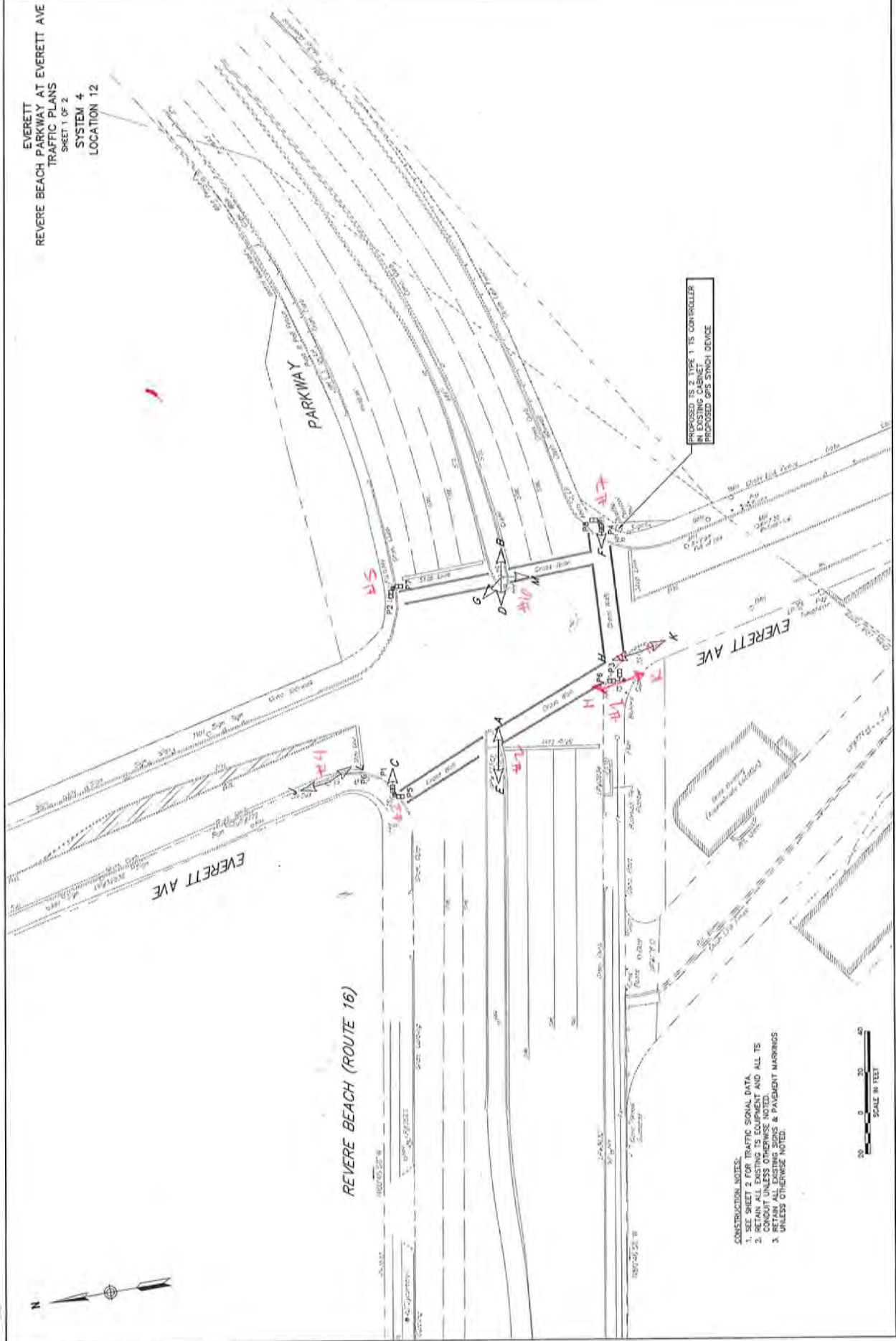
Cycle 2/Split 1	1	2	3	4	5	6	7	8	9
Time									
Mode									

Cycle /Split	1	2	3	4	5	6	7	8	9
Time									
Mode									

Cycle /Split	1	2	3	4	5	6	7	8	9
Time									
Mode									

Cycle /Split	1	2	3	4	5	6	7	8	9
Time									
Mode									

EVERETT
 REVERE BEACH PARKWAY AT EVERETT AVE
 TRAFFIC PLANS
 SHEET 1 OF 2
 SYSTEM 4
 LOCATION 12



\\vha\proj\166-251226\101\166-251226-101.dwg (10/16/2014) 10:40:00 AM

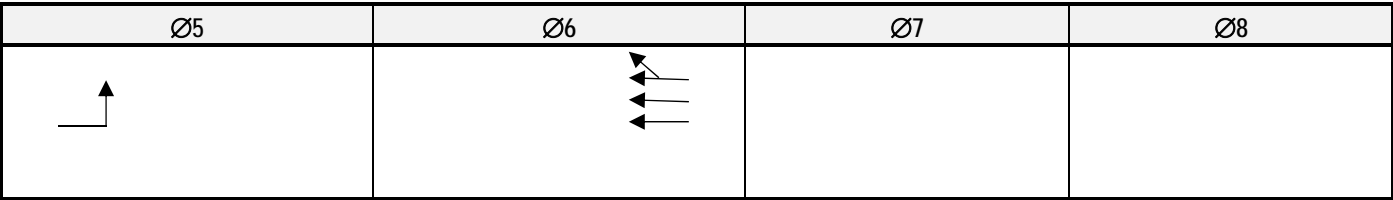
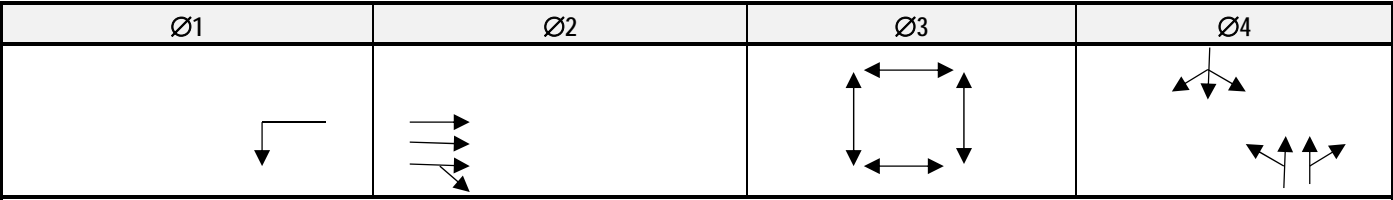


Traffic Signal Inventory

7. Signal Timing Sheet

Ø1 Route 16 WB Left	Ø2 Route 16 EB	Ø3 Pedestrian
Ø4 Everett Avenue NB/SB	Ø5 Route 16 EB Left	Ø6 Route 16 WB
Ø7	Ø8	OLA
OLB	OLC	OLD

PHASE	Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8
Minimum Green (initial)	15	23		10	5	23		
Extension (passage) Vehicle Interval	2	4		5	2	4		
Yellow	3	4	3	4	3	4		
Red Clear	2	2	1	2	2	2		
Maximum Green I	25	47		30	25	47		
Maximum Green II	30	50		50	30	50		
Pedestrian Walk			7					
Pedestrian Clear			28					
Seconds Per Act								
Time to Reduce Before Reduction								
Minimum Gap								
Pedestrian Gap								
Walk (flash/steady)								
Recall	Off	On		Off	On	MIN		
Memory	NL	NL		NL	NL	NL		
Delay								
FDW thru Vehicle Clearance			1					





Traffic Signal Inventory

9. Coordination Data for Eagle Controllers

SET-UP	CODE	0	1	2	3
Operation	1	FREE	AUTO	MANUAL	---
Mode (Normal)		PERM	YIELD	PM YLD	PM OMIT
Maximum		M INH	MAX 1	MAX 2	---
Correction		DWELL	MX DW	SH WAY	SW+
Offset		BEGIN	END	---	---
Force		PLAN	CYCLE	---	---

CYCLE LENGTH	1	2	3	4
Split 1	110	150		
Split 2				
Split 3				
Split 4				

CYCLE/OFFSET	1	2	3	4	5	6
1	82	145				
2						
3						
4						

Cycle/Split Modes: 0=Actuated; 1=Coord Phase; 2=Min Rec; 3=Max Rec; 4=Ped Rec; 5=Max+Ped Rec
6=Phase Omitted; 7=Dual Coord Phase

Cycle 1/Split 1	1	2	3	4	5	6	7	8	9
Time	21	48	10	31	19	50			
Mode		1				1			

Cycle 2/Split 1	1	2	3	4	5	6	7	8	9
Time	21	72	10	47	27	66			
Mode		1				1			

Cycle_/Split_	1	2	3	4	5	6	7	8	9
Time									
Mode									

Cycle_/Split_	1	2	3	4	5	6	7	8	9
Time									
Mode									

Cycle_/Split_	1	2	3	4	5	6	7	8	9
Time									
Mode									



Traffic Signal Inventory

2. Controller Data

Eagle
Epac 300 M41
102695 OSS#070503

Manufacturer
Model No.
Serial No.

TYPE	CONDITION	CONTROLLER PHASE CAPABILITY
<input type="checkbox"/> Electromechanical <input type="checkbox"/> Non-NEMA <input type="checkbox"/> NEMA-Modular <input checked="" type="checkbox"/> NEMA-Keyboard	<input type="checkbox"/> Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> 2 Phase <input type="checkbox"/> 4 Phase <input checked="" type="checkbox"/> 8 Phase

CONTROLLER TYPE	SETTING TYPE
<input type="checkbox"/> Pretimed <input type="checkbox"/> Actuated <input checked="" type="checkbox"/> Semi-Actuated	<input type="checkbox"/> Pin <input type="checkbox"/> Thumbwheel <input type="checkbox"/> Dial <input checked="" type="checkbox"/> Keyboard

BACKPANEL SIZE	LOAD SWITCHES INSTALLED/TYPE	FLASH TRANSFER RELAYS INSTALLED
12P	2 – SSS-87-I/O	1 - Midtex

SOFTWARE LEVEL SIZE	CONFLICT MONITOR MODEL/SIZE
3.33e May '06	EDI MMN-16E

FLASHER	INTERCONNECT CABLE (If Yes, List Size)	COORDINATED (If Yes, complete section 9)
PDC 204	No	Yes

DETECTOR/AMPLIFIERS	QUANTITY/TYPE
1 - EDI LMD622t	

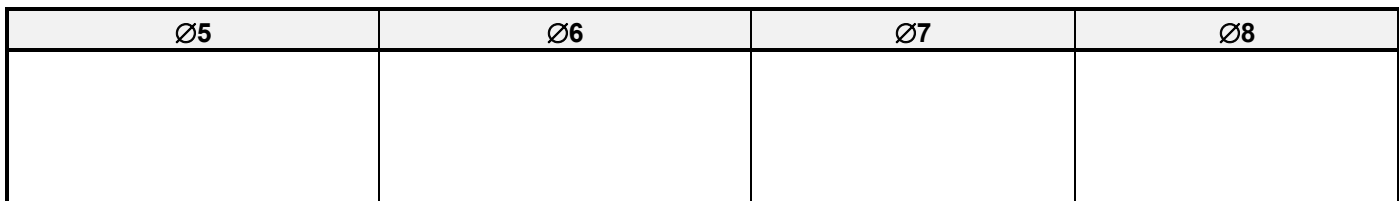
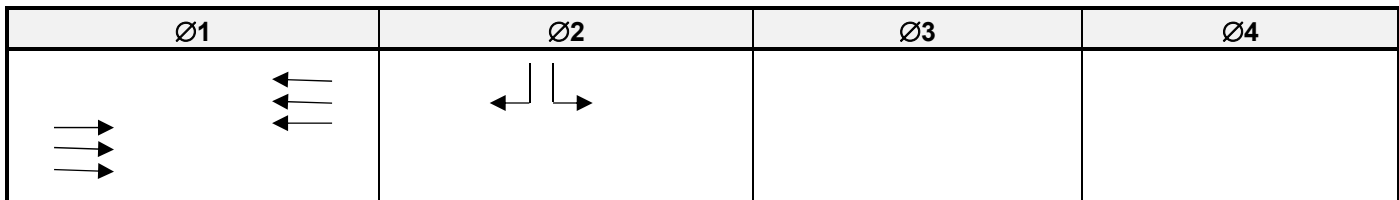


Traffic Signal Inventory

7. Signal Timing Sheet

Ø1 Route 16 EB/WB	Ø2 Union Street SB	Ø3
Ø4	Ø5	Ø6
Ø7	Ø8	OLA
OLB	OLC	OLD

PHASE	Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8
Minimum Green (initial)	10	8						
Extension (passage)	1	2						
Vehicle Interval								
Yellow	4	4						
Red Clear	1	2						
Maximum Green I	40	30						
Maximum Green II	40	30						
Pedestrian Walk								
Pedestrian Clear								
Seconds Per Act								
Time to Reduce								
Before Reduction								
Minimum Gap								
Pedestrian Gap								
Walk (flash/steady)								
Recall	Max	None						
Memory	-	NL						
Delay								
FDW thru Vehicle Clearance								





Traffic Signal Inventory

9. Coordination Data for Eagle Controllers

SET-UP	CODE	0	1	2	3
Operation	1	FREE	AUTO	MANUAL	---
Mode (Normal)	0	PERM	YIELD	PM YLD	PM OMIT
Maximum	0	M INH	MAX 1	MAX 2	---
Correction	2	DWELL	MX DW	SH WAY	SW+
Offset	0	BEGIN	END	---	---
Force	0	PLAN	CYCLE	---	---

CYCLE LENGTH	1	2	3	4
Split 1	100	110		
Split 2				
Split 3				
Split 4				

CYCLE/OFFSET	1	2	3	4	5	6
1	89	77				
2						
3						
4						

Cycle/Split Modes: 0=Actuated; 1=Coord Phase; 2=Min Rec; 3=Max Rec; 4=Ped Rec; 5=Max+Ped Rec
6=Phase Omitted; 7=Dual Coord Phase

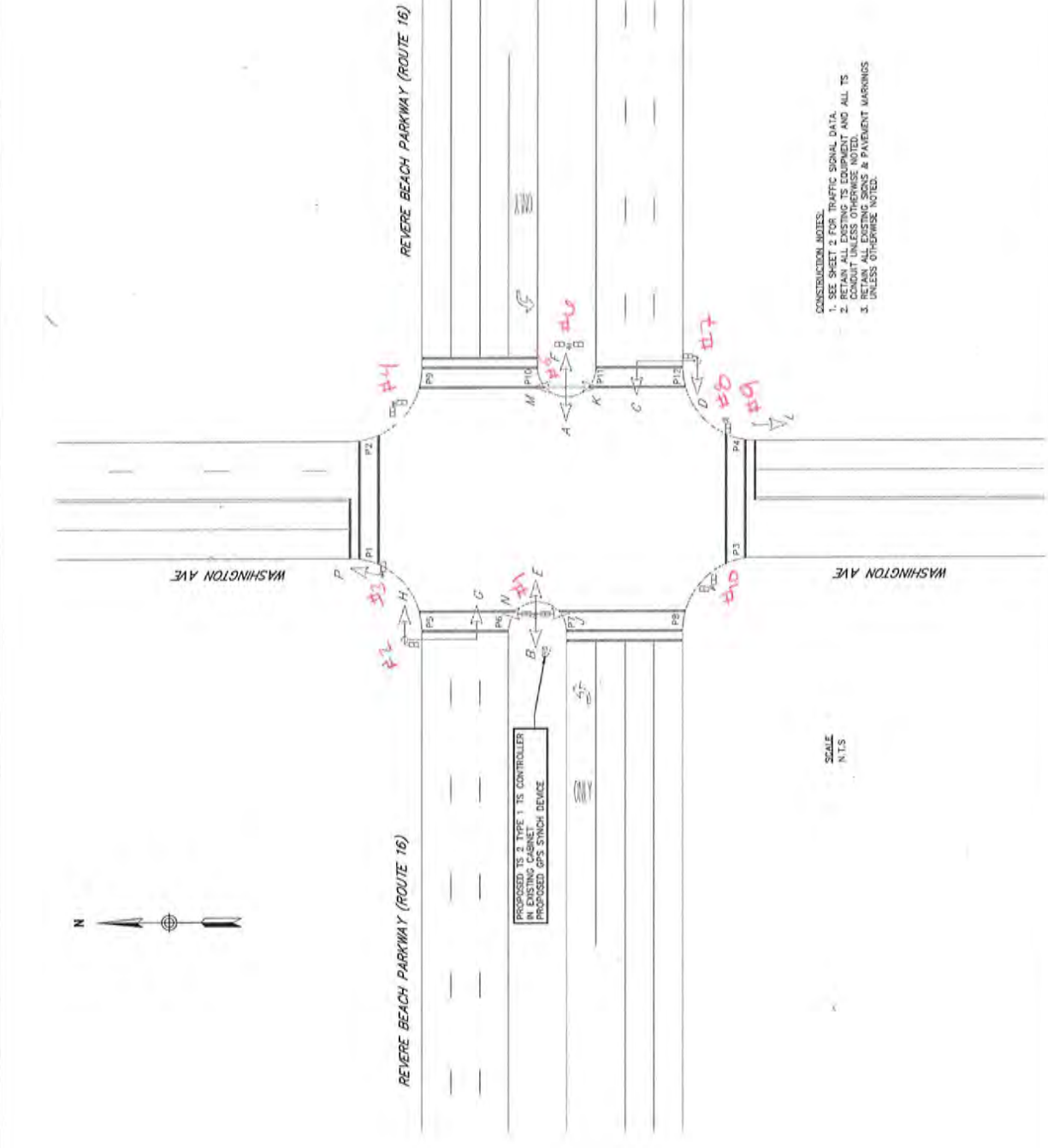
Cycle 1/Split 1	1	2	3	4	5	6	7	8	9
Time	70	30							
Mode	1								

Cycle 2/Split 1	1	2	3	4	5	6	7	8	9
Time	85	25							
Mode	1								

Cycle /Split	1	2	3	4	5	6	7	8	9
Time									
Mode									

Cycle /Split	1	2	3	4	5	6	7	8	9
Time									
Mode									

Cycle /Split	1	2	3	4	5	6	7	8	9
Time									
Mode									



- CONSTRUCTION NOTES:
1. SEE SHEET 2 FOR TRAFFIC SIGNAL DATA.
 2. RETAIN ALL EXISTING IS EQUIPMENT AND ALL IS EQUIPMENT UNLESS OTHERWISE NOTED.
 3. RETAIN ALL EXISTING SIGNS & PAVEMENT MARKINGS UNLESS OTHERWISE NOTED.

PROPOSED IS 3 TYPE 1 IS CONTROLLER
 IN EXISTING CABINET.
 PROPOSED GPS SYNCH DEVICE

SCALE
 N.T.S.



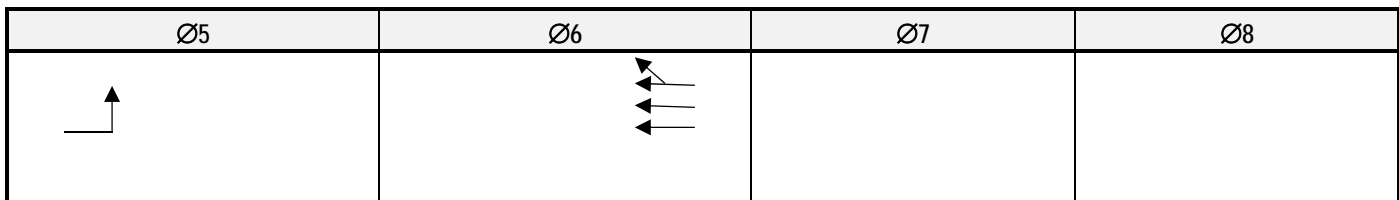
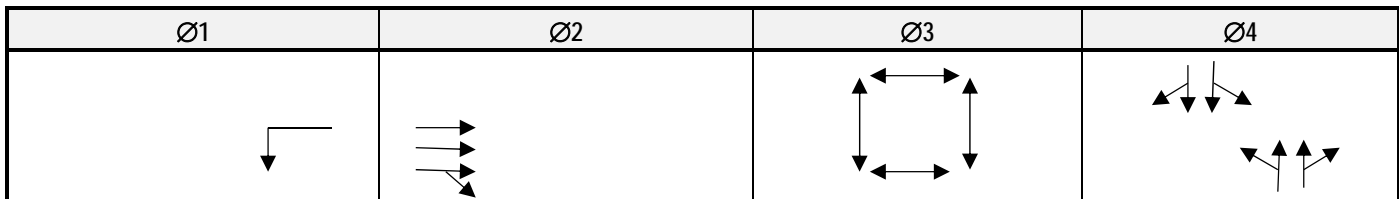


Traffic Signal Inventory

7. Signal Timing Sheet

\emptyset 1 Route 16 WB Left	\emptyset 2 Route 16 EB	\emptyset 3 Pedestrian
\emptyset 4 Washington Avenue NB/SB	\emptyset 5 Route 16 EB Left	\emptyset 6 Route 16 WB
\emptyset 7	\emptyset 8	OLA
OLB	OLC	OLD

PHASE	\emptyset 1	\emptyset 2	\emptyset 3	\emptyset 4	\emptyset 5	\emptyset 6	\emptyset 7	\emptyset 8
Minimum Green (initial)	5	12		12	5	12		
Extension (passage) Vehicle Interval	2	4		2	2	4		
Yellow	3	4	3	4	3	4		
Red Clear	1	1	1	1	1	1		
Maximum Green I	20	60		25	15	35		
Maximum Green II	10	35		20	10	60		
Pedestrian Walk			7					
Pedestrian Clear			19					
Seconds Per Act								
Time to Reduce								
Before Reduction								
Minimum Gap								
Pedestrian Gap								
Walk (flash/steady)								
Recall	Off	MAX		MAX	Off	MAX		
Memory	NL			NL		NL		
Delay								
FDW thru Vehicle Clearance			1					





Traffic Signal Inventory

9. Coordination Data for Eagle Controllers

SET-UP	CODE	0	1	2	3
Operation	1	FREE	AUTO	MANUAL	---
Mode (Normal)		PERM	YIELD	PM YLD	PM OMIT
Maximum		M INH	MAX 1	MAX 2	---
Correction		DWELL	MX DW	SH WAY	SW+
Offset		BEGIN	END	---	---
Force		PLAN	CYCLE	---	---

CYCLE LENGTH	1	2	3	4
Split 1	100	110		
Split 2				
Split 3				
Split 4				

CYCLE/OFFSET	1	2	3	4	5	6
1	0	0				
2						
3						
4						

Cycle/Split Modes: 0=Actuated; 1=Coord Phase; 2=Min Rec; 3=Max Rec; 4=Ped Rec; 5=Max+Ped Rec
6=Phase Omitted; 7=Dual Coord Phase

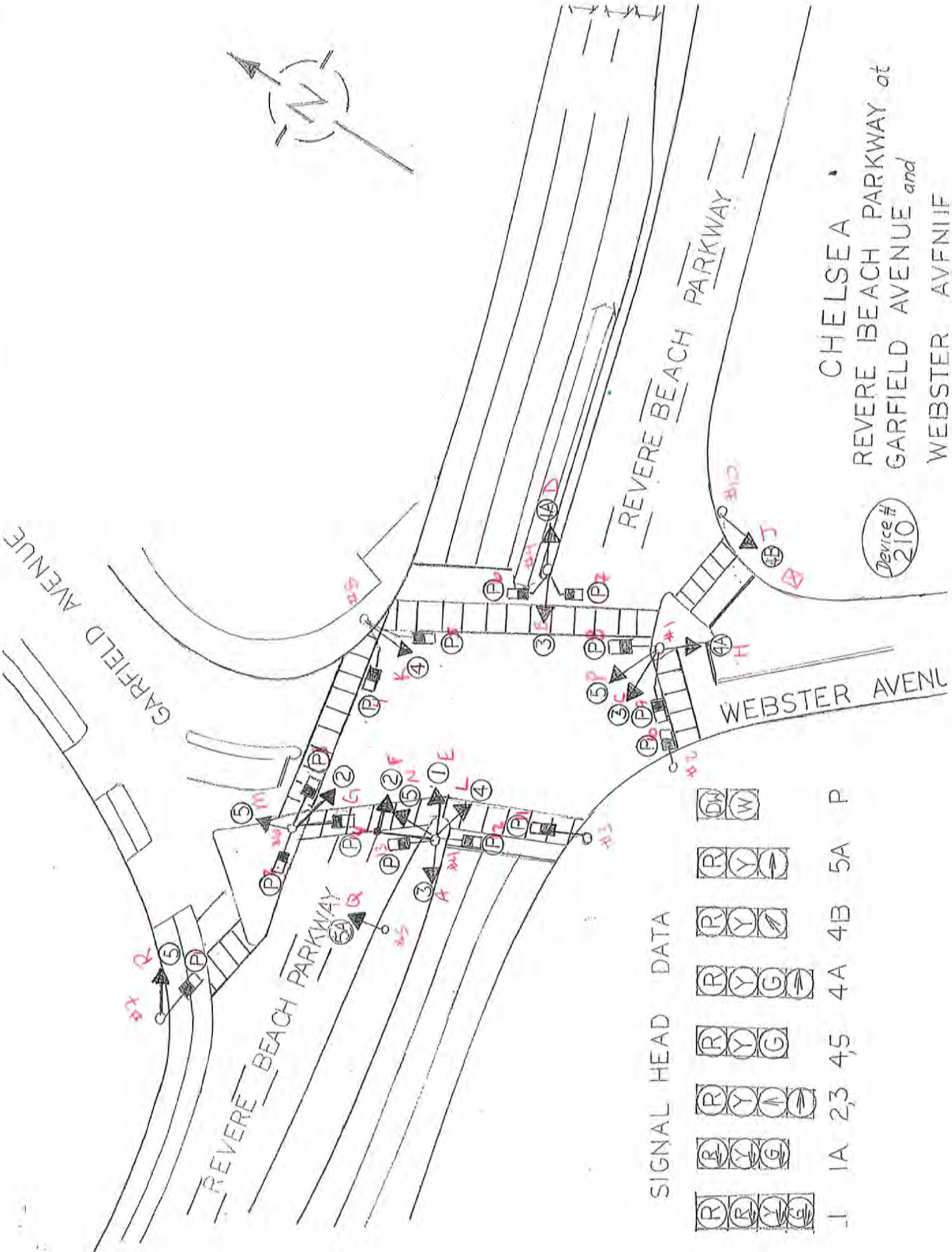
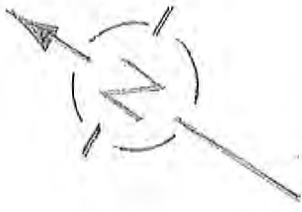
Cycle 1/Split 1	1	2	3	4	5	6	7	8	9
Time	14	36	28	22	14	36			
Mode		1				1			

Cycle 2/Split 1	1	2	3	4	5	6	7	8	9
Time	23	37	28	22	12	48			
Mode		1				1			

Cycle_/Split_	1	2	3	4	5	6	7	8	9
Time									
Mode									

Cycle_/Split_	1	2	3	4	5	6	7	8	9
Time									
Mode									

Cycle_/Split_	1	2	3	4	5	6	7	8	9
Time									
Mode									



CHELSEA
 REVERE BEACH PARKWAY at
 GARFIELD AVENUE and
 WEBSTER AVENUE

Device # 210

SIGNAL HEAD DATA

Signal Head	1A	23	45	4A	4B	5A	P
1	R	R	Y	G	Y	G	
2	R	Y	G				
3	R	Y	G				
4	R	Y	G				
5	R	Y	G				
A	R	Y	G				
B							
C							
D							
E							
F							
G							
H							
I							
J							



Traffic Signal Inventory

3. Cabinet Data

Manufacturer

Model No.

Serial No.

OUTSIDE DIMENSIONS				TYPE OF SUPPORT	CONDITION
HEIGHT (inches)	WIDTH (inches)	DEPTH (inches)	HEIGHT OF BOTTOM OF CABINET (inches)		
P	P	P		<input type="checkbox"/> Side of Pole <input type="checkbox"/> Pedestal <input checked="" type="checkbox"/> Ground	<input type="checkbox"/> Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor

DOOR	VENT	FAN / THERMOSTAT	MANUAL CONTROL	TEST BUTTONS (If Yes, List Type)
<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input checked="" type="checkbox"/> Police <input type="checkbox"/> Other	YES	YES	NONE	NONE

POLICE DOOR SWITCHES	DOCUMENTATION IN CABINET
Timer/Off Signal/Off Auto/Manual Signal/Flash Police Button	

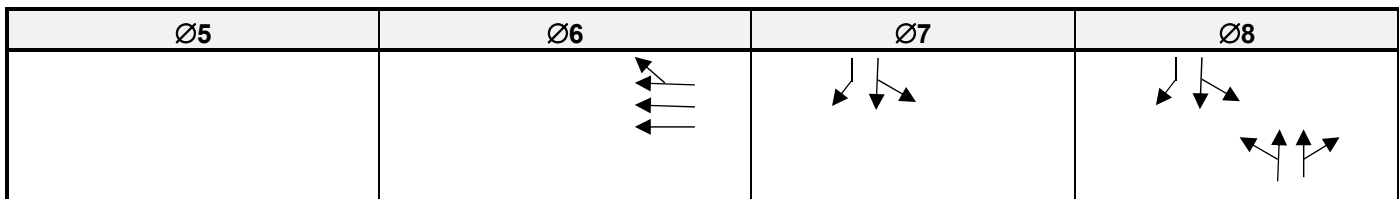
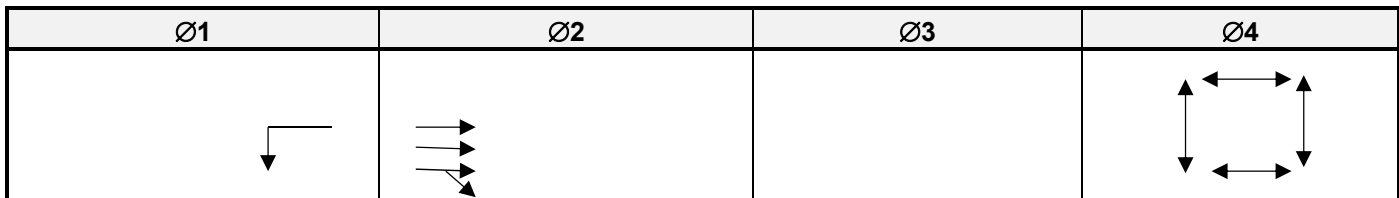


Traffic Signal Inventory

7. Signal Timing Sheet

Ø1 Route 16 WB Left	Ø2 Route 16 EB	Ø3
Ø4 Pedestrian	Ø5	Ø6 Route 16 WB
Ø7 Webster NB	Ø8 Garfield/Webster NB/SB	OLA
OLB	OLC	OLD

PHASE	Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8
Minimum Green (initial)	9	15				15	20	10
Extension (passage)	2	4				4	1	4
Vehicle Interval								
Yellow	3	4		3		4	4	4
Red Clear	1	1		1		1	1	1
Maximum Green I	35	55				55	10	35
Maximum Green II	35	50				50	12	30
Pedestrian Walk				5				
Pedestrian Clear				23				
Seconds Per Act								
Time to Reduce		30				30		30
Before Reduction		20				20		20
Minimum Gap		5				5		0
Pedestrian Gap								
Walk (flash/steady)								
Recall	EXT	EXT				EXT	Off	Off
Memory		On				On	NL	NL
Delay								
FDW thru Vehicle Clearance				0				





Traffic Signal Inventory

9. Coordination Data for Eagle Controllers

SET-UP	CODE	0	1	2	3
Operation	0	FREE	AUTO	MANUAL	---
Mode (Normal)		PERM	YIELD	PM YLD	PM OMIT
Maximum		M INH	MAX 1	MAX 2	---
Correction		DWELL	MX DW	SH WAY	SW+
Offset		BEGIN	END	---	---
Force		PLAN	CYCLE	---	---

CYCLE LENGTH	1	2	3	4
Split 1				
Split 2				
Split 3				
Split 4				

CYCLE/OFFSET	1	2	3	4	5	6
1						
2						
3						
4						

Cycle/Split Modes: 0=Actuated; 1=Coord Phase; 2=Min Rec; 3=Max Rec; 4=Ped Rec; 5=Max+Ped Rec
6=Phase Omitted; 7=Dual Coord Phase

Cycle_/Split_	1	2	3	4	5	6	7	8	9
Time									
Mode									

Cycle_/Split_	1	2	3	4	5	6	7	8	9
Time									
Mode									

Cycle_/Split_	1	2	3	4	5	6	7	8	9
Time									
Mode									

Cycle_/Split_	1	2	3	4	5	6	7	8	9
Time									
Mode									

Cycle_/Split_	1	2	3	4	5	6	7	8	9
Time									
Mode									