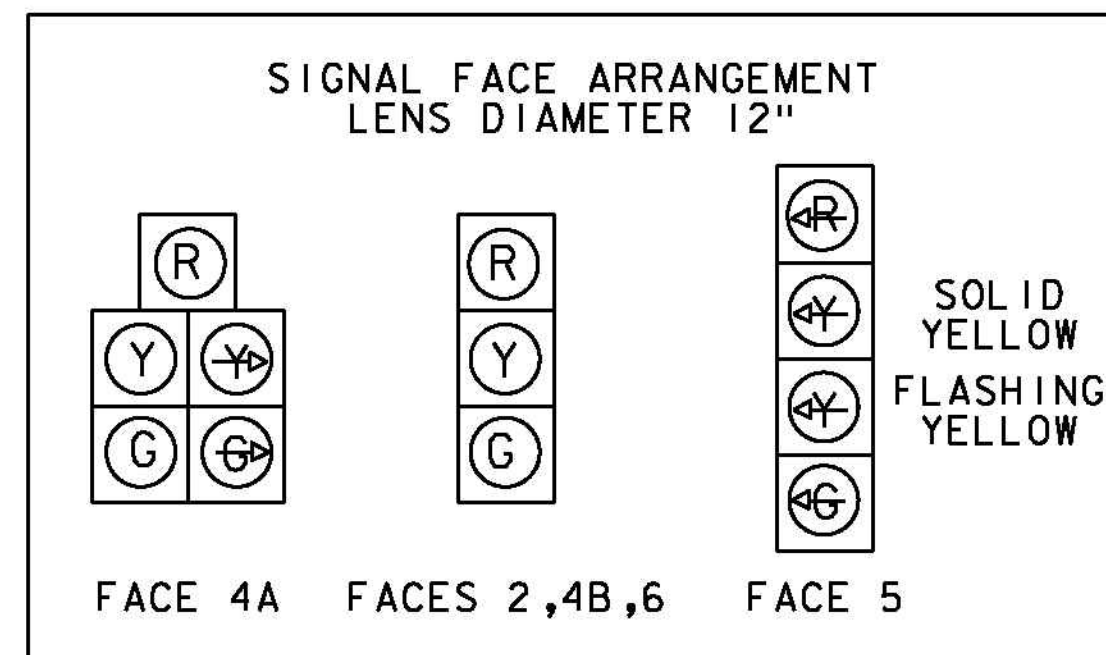


LIST OF MAJOR EQUIPMENT

EQUIPMENT ITEM 678J5 (VT I17 & TH 4)	QUANTITY
POWER METER ON STANCHION	1
TRAFFIC SIGNAL CONTROLLER (NEMA TS2)	1
NEMA "P44" BASE MOUNTED CONTROLLER CABINET WITH 15-INCH EXTENDED BASE ON A CONCRETE FOUNDATION, PAINTED FLAT BLACK WITH ANCILLARY CONTROL EQUIPMENT	1
FLAT BLACK PAINTED STEEL MAST ARM SIGNAL POLE WITH 45 FOOT MAST ARM AND 28 FOOT MAST ARM (MAP1)	1
ONE WAY, 3-SECTION, 12-INCH POLYCARBONATE MAST ARM MOUNTED LED TRAFFIC SIGNAL HEAD WITH TUNNEL VISORS AND 5" LOUVERED BACKPLATES WITH ALL PIECES PAINTED FLAT BLACK	5
ONE WAY, 4-SECTION, 12-INCH POLYCARBONATE MAST ARM MOUNTED LED TRAFFIC SIGNAL HEAD WITH TUNNEL VISORS AND 5" LOUVERED BACKPLATES WITH ALL PIECES PAINTED FLAT BLACK	1
ONE WAY, 5-SECTION, 12-INCH POLYCARBONATE MAST ARM MOUNTED LED TRAFFIC SIGNAL HEAD WITH TUNNEL VISORS AND 5" LOUVERED BACKPLATES WITH ALL PIECES PAINTED FLAT BLACK	1
ASTRO-BRACKETS	7
VIDEO VEHICLE DETECTION CAMERA	3
OPTICAL PREEMPTION DETECTORS	3
OPTICAL SIGNAL PROCESSOR CARD	1
AC STROBE - RED	2



ALL HEADS TO BE LED'S
NOTE: FLASHING YELLOW SHALL NOT BE DISPLAYED WHEN OPERATING IN PROTECTED ONLY MODE

678.23 - WIRED CONDUIT	CONDUIT SIZE		DESCRIPTION
	2"	4"	
POWER TO STANCHION		55'	*POWER
STANCHION TO CONTROLLER		26'	POWER
CONTROLLER TO JBI	22'		SIGNAL/LIGHTING
CONTROLLER TO JBI	22'		VIDEO
CONTROLLER TO JBI	22'		FUTURE USE
JBI TO MAP1	62'		SIGNAL/LIGHTING
JBI TO MAP1	62'		VIDEO
MAP1 STUB (OPPOSITE SIDE)	5'		FUTURE USE
SUBTOTALS	195'	81'	
ROUNDING	5'	4'	
TOTALS	200'	85'	

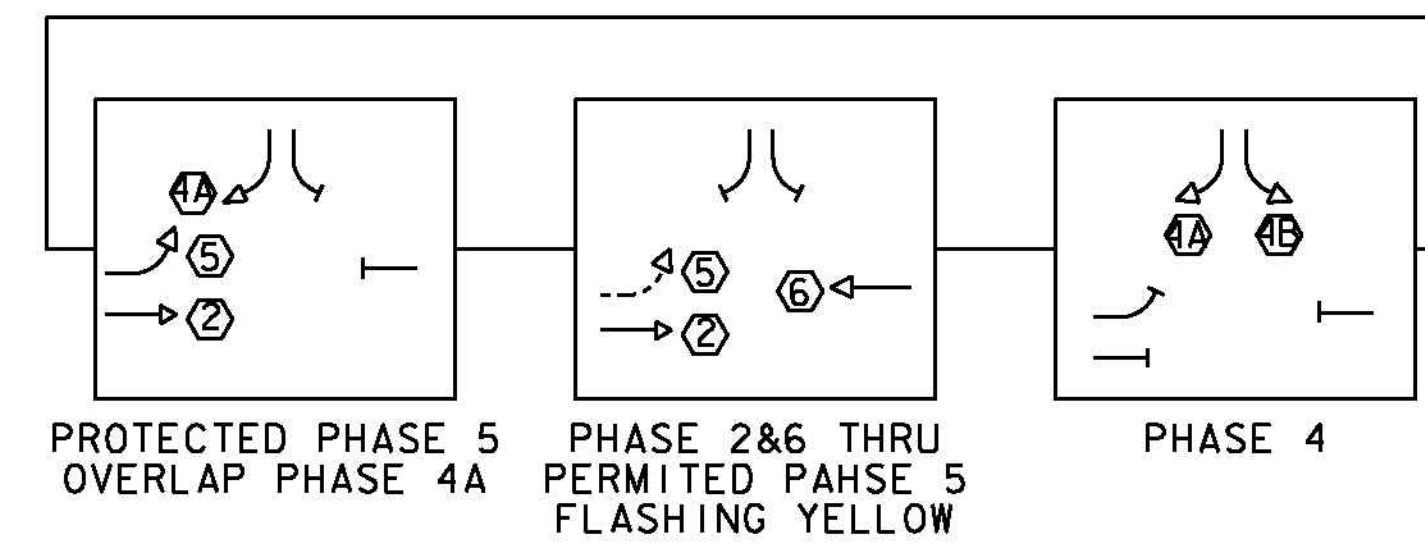
*-CONDUIT QUANTITY INCLUDES PVC RUN ON UTILITY POLE #1

CONTROLLER TIMING CHART

VT ROUTE I17 & SAND HILL ROAD (TH#4)								
PHASE	1	2	3	4	5	6	7	8
TRAFFIC MOVEMENT	->			↓	↖	<		
MINIMUM GREEN	8			5	5	8		
MAXIMUM 1 GREEN	39			9	7	26		
MAXIMUM 2 GREEN	32			16	5	21		
MAXIMUM 3 GREEN	42			6	5	31		
YELLOW CLEARANCE	4			4	4	4		
ALL RED CLEARANCE	2			2	2	2		
VEH. EXTENSION	2			2	2	2		
RECALL MODE		MIN				MIN		

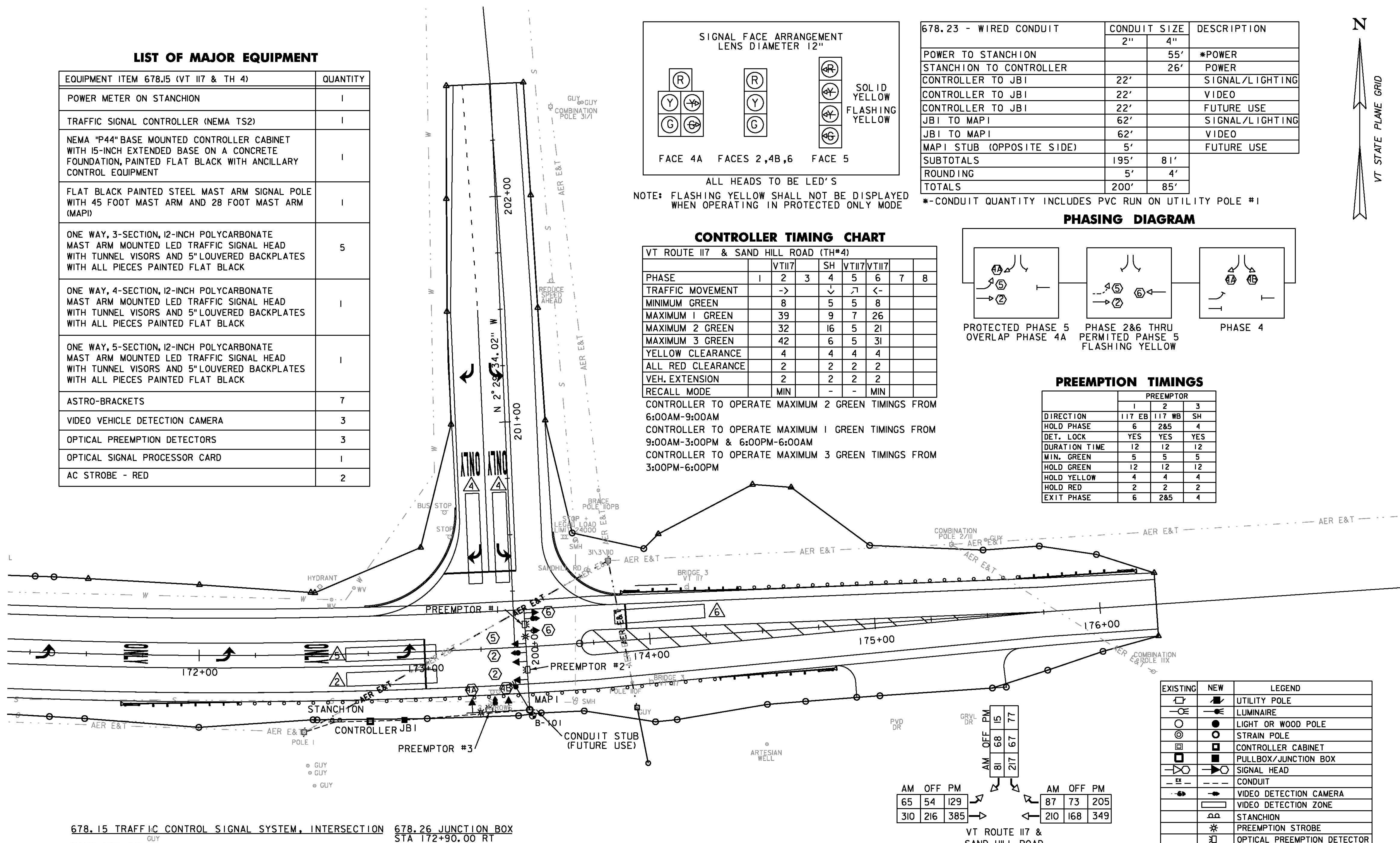
CONTROLLER TO OPERATE MAXIMUM 2 GREEN TIMINGS FROM 6:00AM-9:00AM
CONTROLLER TO OPERATE MAXIMUM 1 GREEN TIMINGS FROM 9:00AM-3:00PM & 6:00PM-6:00AM
CONTROLLER TO OPERATE MAXIMUM 3 GREEN TIMINGS FROM 3:00PM-6:00PM

PHASING DIAGRAM



PREEMPTION TIMINGS

DIRECTION	PREEMPTOR		
	1	2	3
HOLD PHASE	6	2&5	4
DET. LOCK	YES	YES	YES
DURATION TIME	12	12	12
MIN. GREEN	5	5	5
HOLD GREEN	12	12	12
HOLD YELLOW	4	4	4
HOLD RED	2	2	2
EXIT PHASE	6	2&5	4



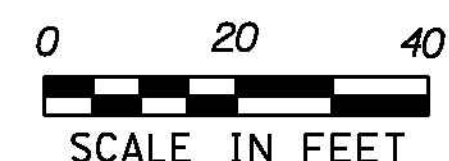
678.15 TRAFFIC CONTROL SIGNAL SYSTEM, INTERSECTION
MAST ARM POLE
STA 173+45.00 RT (28.00' RT)
CABINET/CONTROLLER
STA 172+75.00 RT (30.00' RT)
POWER STANCHION
STA 172+60.00 RT (30.00' RT)

678.26 JUNCTION BOX
STA 172+90.00 RT
679.47 BRACKET ARM
STA 173+45.00 RT - 250W - HPS SEMI-CUTOFF (MAP1)
679.50 LUMINAIRE
STA 173+45.00 RT - 250W - HPS SEMI-CUTOFF (MAP1)

AM	OFF	PM
65	54	129
310	216	385

AM	OFF	PM
87	73	205
210	168	349

VT ROUTE I17 & SAND HILL ROAD
2013
AVERAGE WEEKDAY TRAFFIC



EXISTING	NEW	LEGEND
○	●	UTILITY POLE
○	○	LUMINAIRE
○	○	LIGHT OR WOOD POLE
○	○	STRAIN POLE
□	□	CONTROLLER CABINET
□	□	PULLBOX/JUNCTION BOX
○	○	SIGNAL HEAD
---	---	CONDUIT
○	○	VIDEO DETECTION CAMERA
□	□	VIDEO DETECTION ZONE
○	○	STANCHION
*	*	PREEMPTION STROBE
□	□	OPTICAL PREEMPTION DETECTOR

PROJECT NAME: ESSEX TOWN
PROJECT NUMBER: STP 5400 (5)

FILE NAME: t97d002traf.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: D. LYMAN
TRAFFIC LAYOUT SHEET

PLOT DATE: 24-AUG-2012
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 37 OF 64

