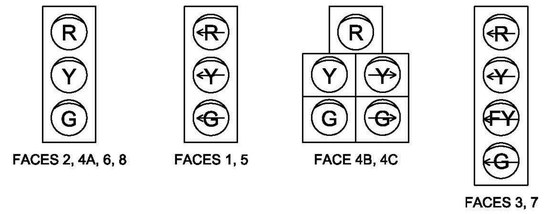
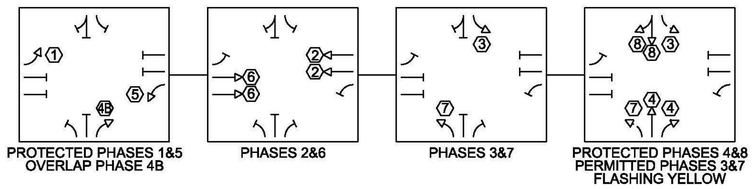
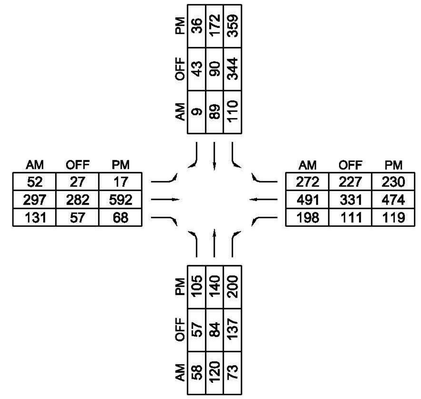
SIGNAL FACE ARRANGEMENT



NOTE: FLASHING YELLOW ARROW SHALL NOT BE DISPLAYED WHEN OPERATING IN PROTECTED ONLY MODE.

PHASING DIAGRAM





LIST OF MAJOR EQUIPMENT

EQUIPMENT ITEM 678.15 - TRAFFIC CONTROL SIGNAL SYSTEM, INTERSECTION	QUANTITY NEW	QUANTITY SALVAGED	REMARKS
FLAT BLACK PAINTED STEEL MAST ARM SIGNAL POLE	4	0	
FLAT BLACK PAINTED STEEL MAST ARMS	4	0	
POWER METER ON STANCHION	1	0	
TRAFFIC SIGNAL CONTROLLER (NEMA TS2)	0	1	SALVAGE AND REINSTALL EXISTING
NEW 12-INCH LED SIGNAL HEADS (ONE-WAY, 3-SECTION, VISORS, DISCONNECT HANGERS, BACKPLATES AND MOUNTING HARDWARE)	9	0	
NEW 12-INCH LED SIGNAL HEADS (ONE-WAY, 4-SECTION, VISORS, DISCONNECT HANGERS, BACKPLATES AND MOUNTING HARDWARE)	2	0	
NEW 12-INCH LED SIGNAL HEADS (ONE WAY, 5-SECTION, VISORS, DISCONNECT HANGERS, BACKPLATES AND MOUNTING HARDWARE)	2	0	
ASTRO-BRACKETS	13	0	
NEMA P44 BASE MOUNTED CONTROLLER CABINET WITH 15-INCH EXTENDED BASE ON A CONCRETE FOUNDATION, PAINTED FLAT BLACK WITH ANCILLARY EQUIPMENT	1	0	
CAMERA EXTENSION BRACKET	4	0	
CAMERA ASSEMBLY	0	4	SALVAGE AND REINSTALL EXISTING
VEHICLE DETECTION PROCESSOR (CARDS)	4	0	
OPTICAL PREEMPTION DETECTORS	3	1	SALVAGE AND REINSTALL ONE EXISTING
OPTICAL PREEMPTION SIGNAL PROCESSOR CARD & CAGE	4	1	SALVAGE AND REINSTALL EXISTING
PREEMPTION AC STROBE - RED	3	1	SALVAGE AND REINSTALL ONE EXISTING
*WAVETRONIX DILEMMA ZONE EQUIPMENT	0	1	SALVAGE AND REINSTALL EXISTING

*ADJUST DILEMA ZONE DETECTION AS NECESSARY TO PROVIDE DETECTION 200-400 FEET FROM SENSOR.

WIRED CONDUIT

EQUIPMENT ITEM 678.23 - WIRED CONDUIT (2")(PVC)(SCH. 80)	CONDUIT SIZE 2"	DESCRIPTION
POWER TO STANCHION	41'	POWER
STANCHION TO CONTROLLER	30'	POWER
CONTROLLER TO MAST ARM POLE 1	26'	SIGNAL\LIGHTING
CONTROLLER TO MAST ARM POLE 1	26'	VIDEO
CONTROLLER TO MAST ARM POLE 1	26'	FUTURE USE
CONTROLLER TO PULLBOX 1	15'	SIGNAL\LIGHTING
CONTROLLER TO PULLBOX 1	15'	VIDEO
CONTROLLER TO PULLBOX 1	15'	FUTURE USE
PULLBOX 1 TO PULLBOX 2	89'	SIGNAL\LIGHTING
PULLBOX 1 TO PULLBOX 2	89'	VIDEO
PULLBOX 1 TO PULLBOX 2	89'	FUTURE USE
PULLBOX 1 TO PULLBOX 2	89'	FUTURE USE
PULLBOX 2 TO MAST ARM POLE 2	10'	SIGNAL\LIGHTING
PULLBOX 2 TO MAST ARM POLE 2	10'	VIDEO
PULLBOX 2 TO MAST ARM POLE 2	10'	FUTURE USE
CONTROLLER TO PULLBOX 3	18'	SIGNAL\LIGHTING
CONTROLLER TO PULLBOX 3	18'	VIDEO
CONTROLLER TO PULLBOX 3	18'	FUTURE USE
PULLBOX 3 TO PULLBOX 4	123'	SIGNAL\LIGHTING
PULLBOX 3 TO PULLBOX 4	123'	VIDEO
PULLBOX 3 TO PULLBOX 4	123'	FUTURE USE
PULLBOX 3 TO PULLBOX 4	123'	FUTURE USE
PULLBOX 4 TO MAST ARM POLE 4	17'	SIGNAL\LIGHTING
PULLBOX 4 TO MAST ARM POLE 4	17'	VIDEO
PULLBOX 4 TO MAST ARM POLE 4	17'	FUTURE USE
PULLBOX 4 TO PULLBOX 5	109'	SIGNAL\LIGHTING
PULLBOX 4 TO PULLBOX 5	109'	VIDEO
PULLBOX 4 TO PULLBOX 5	109'	FUTURE USE
PULLBOX 4 TO PULLBOX 5	109'	FUTURE USE
PULLBOX 5 TO MAST ARM POLE 3	25'	SIGNAL\LIGHTING
PULLBOX 5 TO MAST ARM POLE 3	25'	VIDEO
PULLBOX 5 TO MAST ARM POLE 3	25'	FUTURE USE

CONTROLLER TIMING CHART

PHASE	1	2	3	4	5	6	7	8	9
IN USE	X	X	X	X	X	X	X	X	
TRAFFIC MOVEMENT	EBL	WBT	SBL	NBTR	WBL	EBT	NBL	SBTR	
MIN. GREEN	5	8	5	8	5	8	5	8	
MAX 2 - GREEN (AM)	11	24	11	14	16	19	11	14	
MAX 1 - GREEN (OFF)	11	22	13	14	13	20	11	16	
MAX 3 - GREEN (PM)	11	21	14	14	11	21	11	17	
YELLOW CLEARANCE	4.6	4.6	4.1	4.1	4.6	4.6	4.1	4.1	
ALL RED CLEARANCE	1.6	1.6	2.8	2.8	1.6	1.6	2.8	2.8	
VEHICLE EXTENSION	3	3	3	3	3	3	3	3	
RECALL MODE	NONE	SOFT	NONE	NONE	NONE	SOFT	NONE	NONE	

TIME OF DAY PROGRAM

	WEEKDAY TIMINGS		
MAX 2 - AM PEAK	5:00 AM	TO	9:00 AM
MAX 1 - OFF PEAK	9:00 AM	TO	3:00 PM
MAX 3 - PM PEAK	3:00 PM	TO	7:00 PM
MAX 1 - OFF PEAK	7:00 PM	TO	5:00 AM

PREEMPTION TIMINGS

	PREEMPTOR 1	2	3	4
DIRECTION	EB	WB	SB	NB
HOLD PHASE	1 & 6	2 & 5	3 & 8	4 & 7
DET. LOCK	YES	YES	YES	YES
DURATION TIME	12	12	12	12
MIN. GREEN	5	5	5	5
HOLD GREEN	12	12	12	12
HOLD YELLOW	4	4	4	4
HOLD RED	2	2	2	2

PROJECT NAME: BERLIN
PROJECT NUMBER: STPG SGNL(40)

FILE NAME: t11b358traf.dgn
PROJECT LEADER: P. COBURN
DESIGNED BY: T. SISSON
TRAFFIC SIGNAL PLAN 2

PLOT DATE: 10/20/2014
DRAWN BY: T. SISSON
CHECKED BY: M. LACROIX
SHEET 35 OF 123