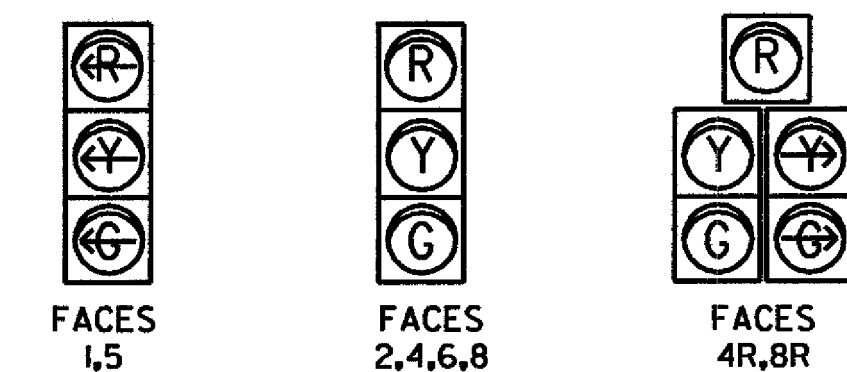


VEHICLE LOOP DETECTORS						INDUCTANCE (μH)		RESISTANCE Ω @ 25°C		LEAKAGE TO GROUND
LANE	LOOP NO.	SIZE	TYPE & NO. TURNS	CALL Ø	MODE	CALCULATED	MEASURED	CALCULATED	MEASURED	(M Ω)
NB LEFT	1	1.8 m X 12 m	QUAD-2	Ø 1	PRESENCE	381		1.12		
SB THRU	2A,2B*	1.8 m X 1.8 m	2 RECT-4	Ø 2	PULSE	351		1.28		
WB RIGHT	4A	1.8 m X 12 m	QUAD-2	Ø 4	DELAY-5s	346		0.66		
WB RIGHT	4R	1.8 m X 1.8 m	RECT-4	Ø 4	DELAY-5s	143		0.22		
WB LEFT	4B	1.8 m X 12 m	QUAD-2	Ø 4	PRESENCE	349		0.71		
SB LEFT	5	1.8 m X 12 m	QUAD-2	Ø 5	PRESENCE	357		0.80		
NB THRU	6A,6B*	1.8 m X 1.8 m	2 RECT-4	Ø 6	PULSE	370		1.53		
EB RIGHT	8A	1.8 m X 12 m	QUAD-2	Ø 8	DELAY-5s	406		1.44		
EB RIGHT	8R	1.8 m X 6 m	RECT-3	Ø 8	DELAY-5s	243		1.09		
EB LEFT	8B	1.8 m X 12 m	QUAD-2	Ø 8	PRESENCE	410		1.49		

\*LOOPS 2A & 2B, AND LOOPS 6A & 6B SHALL BE SPICED TOGETHER IN SERIES AT THE CONNECTION TO THE LEAD-IN CABLE.

ALL CALCULATED VALUES ARE AT THE CONTROLLER. MEASURED VALUES MUST BE FILLED IN PRIOR TO TEST PERIOD.

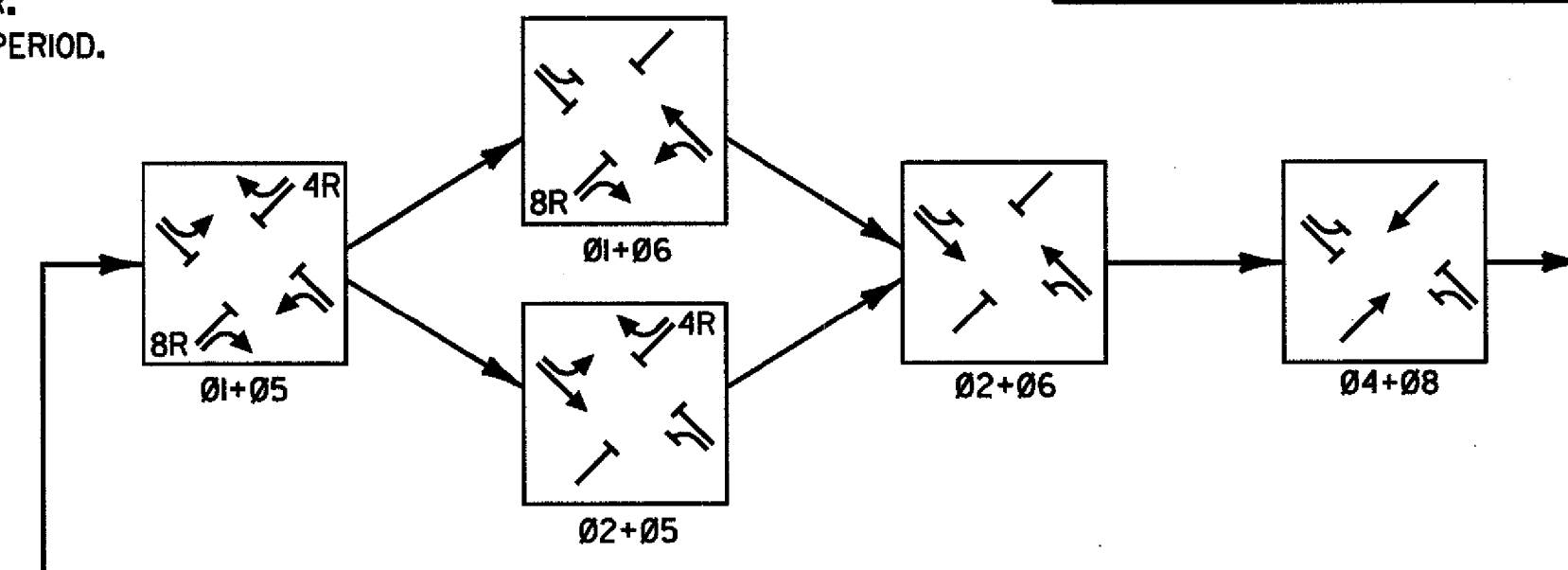
**SIGNAL FACE ARRANGEMENT**  
300mm LENSES



**LEGEND**

EXISTING	NEW	DESCRIPTION
⊠	⊠	UTILITY POLE
⊠	⊠	LUMINAIRE
○	○	LIGHT OR WOOD POLE
⊙	⊙	STRAIN POLE
⊠	⊠	CONTROLLER CABINET
⊠	⊠	PULLBOX/JUNCTION BOX
⊠	⊠	SIGNAL HEAD
---	---	CONDUIT
---	---	VEHICLE LOOPS
⊙	⊙	PEDESTAL POST
⊙	⊙	OVERHEAD TRAFFIC SIGN
⊠	⊠	STANCHION

**PHASING DIAGRAM**



**CONTROLLER TIMING CHART**

LOCAL PROGRAMMING	PHASE							
	1	2	3	4	5	6	7	8
MINIMUM GREEN	8	17		12	8	17		12
EXTENSION	2.0	5.0		2.0	2.0	5.0		2.0
YELLOW CLEARANCE	4.0	4.0		4.0	4.0	4.0		4.0
ALL RED CLEARANCE	2.0	2.0		2.0	2.0	2.0		2.0
MAX. GREEN I	14	34		24	14	34		24
WALK	-	-		-	-	-		-
FLASHING DON'T WALK	-	-		-	-	-		-
RECALL	OFF	MINIMUM		OFF	OFF	MINIMUM		OFF
MEMORY	LOCK	LOCK		NON-LOCK	LOCK	LOCK		NON-LOCK

**YEAR 2000 - AVERAGE WEEKDAY TRAFFIC VOLUMES**  
\*DESIGN HOUR VOLUMES FOR THE YEAR 2020

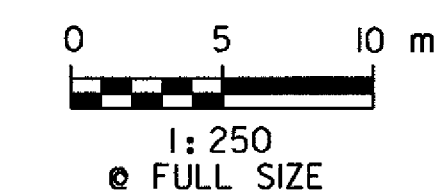
AM	OFF	PM	DIV#
14	19	23	43
202	347	394	446
-	-	-	535

**COORDINATION DATA CHART**

CYCLE	SPLIT								OFFSET
	1	2	3	4	5	6	7	8	
CYCLE 1 - 90 SEC. 6:00 AM - 9:00 AM	20s/22%	40s/45%		30s/33%	20s/22%	40s/45%		30s/33%	48s/53%
CYCLE 2 - 90 SEC. 9:00 AM - 10:00 PM	20s/22%	40s/45%		30s/33%	20s/22%	40s/45%		30s/33%	4s/4%
FREE OPERATION 10:00 PM - 12:00 AM									
FLASHING MODE 12:00 AM - 6:00 AM									

**TABLE OF CHANGE SEQUENCE**

FACE	R/W	Ø1+Ø5		Ø1+Ø6		Ø2+Ø5		Ø2+Ø6				Ø4+Ø8	FLASHING OPERATION	
		CLEAR TO	CLEAR TO	CLEAR TO	CLEAR TO	ALL OTHERS	CLEAR TO	CLEAR TO	CLEAR TO	CLEAR TO				
1	←	←	←	←	←	←	←	←	←	←	←	←	←	FR
2	R	R	R	R	R	R	R	G	G	G	G	Y	R	FR
4	R	R	R	R	R	R	R	R	R	R	R	R	R	FR
4R	R	R	R	R	R	R	R	R	R	R	R	R	R	FR
5	←	←	←	←	←	←	←	←	←	←	←	←	←	FR
6	R	R	R	R	R	R	R	G	G	G	G	Y	R	FR
8	R	R	R	R	R	R	R	R	R	R	R	R	R	FR
8R	R	R	R	R	R	R	R	R	R	R	R	R	R	FR

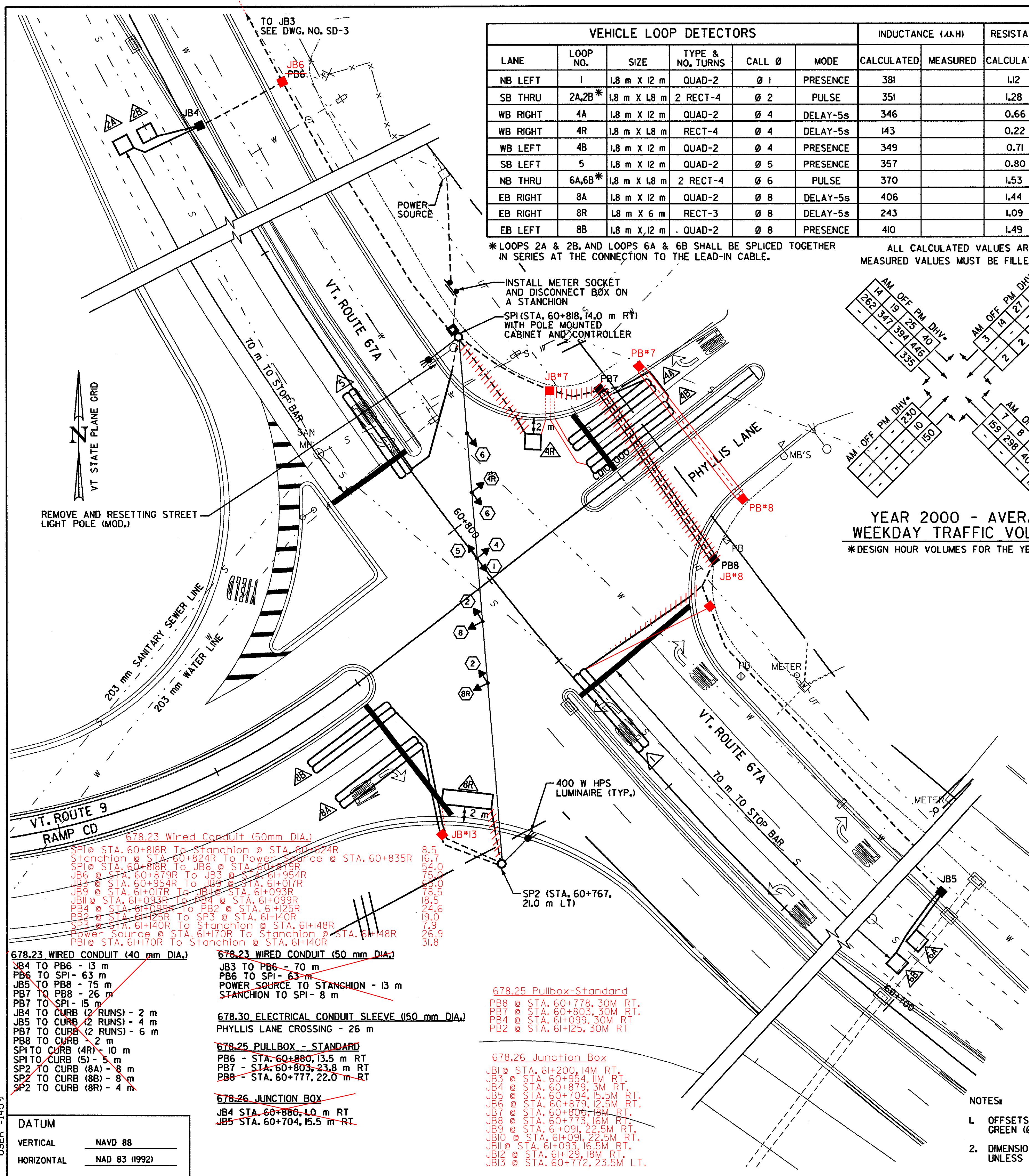


- NOTES:**
- OFFSETS ARE REFERENCED TO BEGINNING OF VT. ROUTE 67A GREEN (Ø2+Ø6)
  - DIMENSIONS ARE MEASURED TO FACE OF CURB UNLESS SPECIFIED OTHERWISE.

**TRAFFIC SIGNAL PLAN**

SURVEYED BY C.H.A. & V.S.E. DATE 12/93  
 DESIGNED BY M.R.W. DATE 9/00  
 DRAWN BY K.H.D. DATE 9/00  
 CHECKED BY T.R.J. DATE 9/00

DESIGN FILE NO. TSD-CD.DGN  
 PROJ. NAME BENNINGTON - HOOSICK D.P.I. 014611) C/4  
 PROJ. NO. P.I.N. 1306.60  
 DWG. NO. SD-1 SHEET 168 OF 385



**DATUM**

VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

FILE NAME =u:\5116\vaot\contract4\tsd-cd.dgn  
 DATE/TIME =07 SEP 2000  
 USER =1459