CONDUCTOR SCHEDULE

CONTROL FUNCTION	CONDUCTORS SIZE	CONDUCTORS INSULATION	RUNS 1	2	3	4	5	6	7	8
VEHICLE HEADS	#14	T.W.	–	–	–	–	–	–	–	–
PHASE 2					3	3	3			
PHASE 4				3	3					
PHASE 6			3	3	6	3	3	3	3	3
PHASE 8					3	3	3	3		
PED. HEADS										
PHASE 2			2	2	4	2				
PHASE 4				2	4	2	2	2	2	
PHASE 6					2	2	2	2	2	2
PHASE 8					2	2	2	2		
PED. PUSH BUTTON										
PHASE 2				1	2					
PHASE 4			1	1	2	1	1	1	1	1
PHASE 6					1	1	1	1	1	
PHASE 8					1	1	1			
SPARES			3	3	6	3	3	3	3	3
12V COMMON			1	1	2	1	1	1	1	1
DETECTORS	#12/2	P.E.								
PHASE 2			3	3	3					
PHASE 4					1	1	1	1	1	
PHASE 6					3	3	3			
PHASE 8					1					
I.I.S.N.S.	#12	T.W.		2		2	2	2	2	2
120V COMMON	#10	T.W.	1	1	2	1	1	1	1	1
LUMINAIRES	#8	T.H.W.		2		2	2	2	2	2
SIGNAL SERVICE	#6	T.H.W.			2					
INTERCONNECT (fut.)	#19/2	P.E.			1					
TOTAL	#14	T.W.	10	16	41	24	22	18	13	10
	#12	T.W.		2		2	2	2	2	2
	#10	T.W.	1	1	2	1	1	1	1	1
	#8	T.H.W.		2		2	2	2	2	2
	#12/2	P.E.	3	3	8	4	4	1	1	
	#19/2	P.E.								
#14 EQUIV.			21	34	65	45	43	30	25	19
CONDUIT SIZE			2"	2 1/2"	3"	3"	2 1/2"	2"	2"	2"

Interconnect = 3 pairs of #19/2 (FUTURE)

DETECTOR SCHEDULE

CHANNELS	LOOP DESIGNATION	NUMBER OF LOOPS	FEATURES
1	1–W–2	2	●■
2	2–W–2	4	▲
1	3–W–2	3	
2	1–N–4	3	
1	1–E–6	2	●■
2	2–E–6	4	▲
1	3–E–6	3	
2	1–S–8	3	

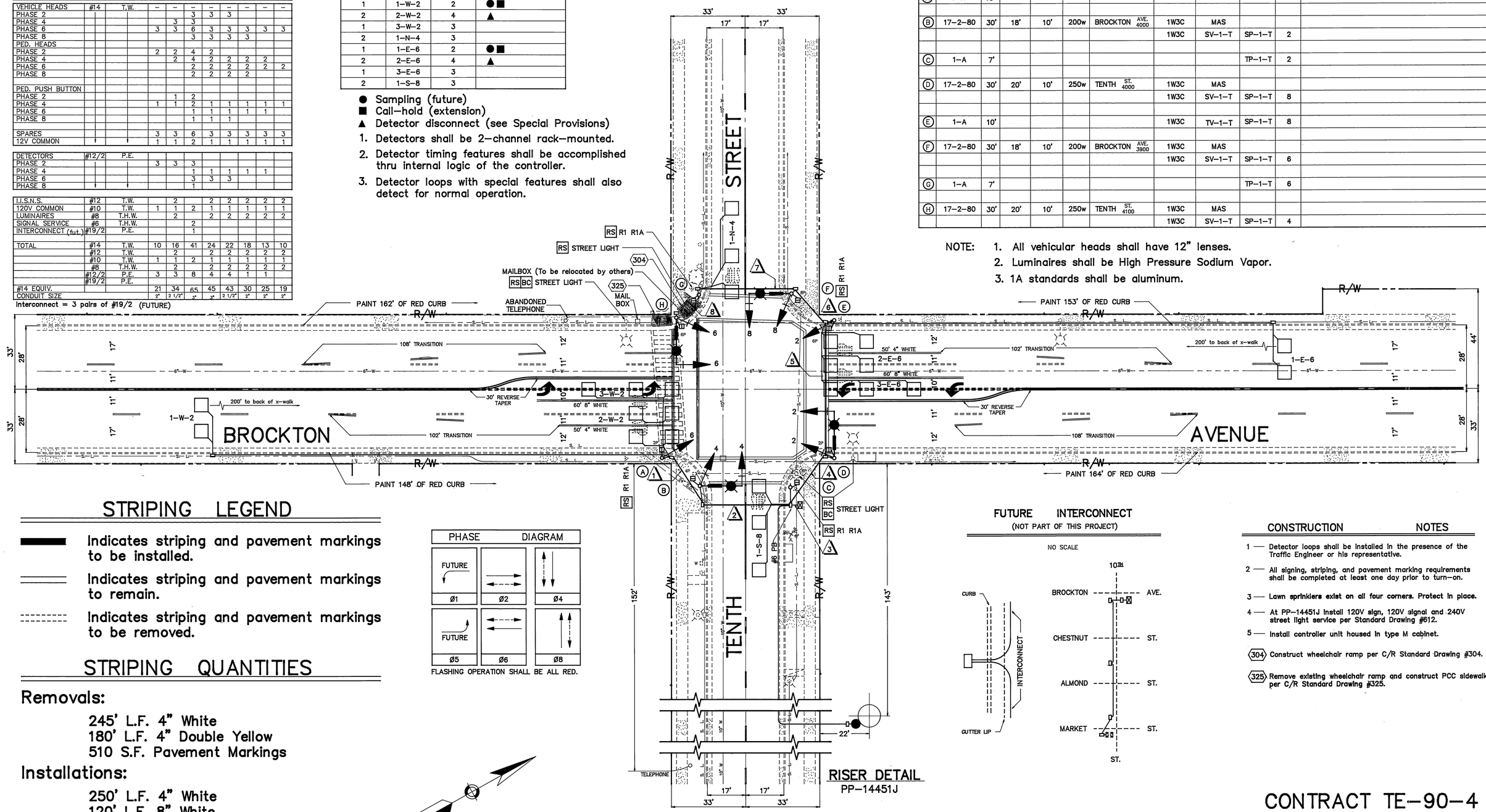
● Sampling (future)
■ Call–hold (extension)
▲ Detector disconnect (see Special Provisions)

1. Detectors shall be 2–channel rack–mounted.
2. Detector timing features shall be accomplished thru internal logic of the controller.
3. Detector loops with special features shall also detect for normal operation.

POLE SCHEDULE

No.	STANDARD TYPE	HGT.	SIG. M.A.	LUM. M.A.	LUM. HPSV	I.S.N.S. LEGEND	SIGNAL HEAD	SIGNAL MOUNTING VEHICLE	PED	PPB PHASE	REMARKS
(A)	1–A	10'					1W3C	TV–1	SP–1–T	4	
(B)	17–2–80	30'	18'	10'	200w	BROCKTON AVE. 4000	1W3C	MAS			
							1W3C	SV–1–T	SP–1–T	2	
(C)	1–A	7'							TP–1–T	2	
(D)	17–2–80	30'	20'	10'	250w	TENTH ST. 4000	1W3C	MAS			
							1W3C	SV–1–T	SP–1–T	8	
(E)	1–A	10'					1W3C	TV–1–T	SP–1–T	8	
(F)	17–2–80	30'	18'	10'	200w	BROCKTON AVE. 3900	1W3C	MAS			
							1W3C	SV–1–T	SP–1–T	6	
(G)	1–A	7'							TP–1–T	6	
(H)	17–2–80	30'	20'	10'	250w	TENTH ST. 4100	1W3C	MAS			
							1W3C	SV–1–T	SP–1–T	4	

NOTE:
1. All vehicular heads shall have 12" lenses.
2. Luminaires shall be High Pressure Sodium Vapor.
3. 1A standards shall be aluminum.



STRIPING LEGEND

Indicates striping and pavement markings to be installed.

Indicates striping and pavement markings to remain.

Indicates striping and pavement markings to be removed.

STRIPING QUANTITIES

Removals:

245' L.F. 4" White
180' L.F. 4" Double Yellow
510 S.F. Pavement Markings

Installations:

250' L.F. 4" White
120' L.F. 8" White
180' L.F. 4" Double Yellow
140 S.F. Pavement Markings
627' L.F. Red Curb

PHASE DIAGRAM

FLASHING OPERATION SHALL BE ALL RED.

RISER DETAIL
PP–14451J

FUTURE INTERCONNECT
(NOT PART OF THIS PROJECT)

NO SCALE

CONSTRUCTION NOTES

1 — Detector loops shall be installed in the presence of the Traffic Engineer or his representative.

2 — All signing, striping, and pavement marking requirements shall be completed at least one day prior to turn–on.

3 — Lawn sprinklers exist on all four corners. Protect in place.

4 — At PP–14451J install 120V sign, 120V signal and 240V street light service per Standard Drawing #612.

5 — Install controller unit housed in type M cabinet.

(304) Construct wheelchair ramp per C/R Standard Drawing #304.

(325) Remove existing wheelchair ramp and construct PCC sidewalk per C/R Standard Drawing #325.

CONTRACT TE–90–4

ENGINEER IN RESPONSIBLE CHARGE
BARRY BECK
R.C.E. No. 20900 expires 9/30/93
DATE 5/29/90

REGISTERED PROFESSIONAL ENGINEER BARRY BECK No. 20900 Exp. 9-30-93 CIVIL STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY ___ DRAWN BY BRM CHECKED BY ___

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
P.W. INSPECTION		
TRAFFIC DIVISION		
CHIEF P.W. ENGR.		
PUBLIC UTILITIES		

APPROVED BY ___ DIRECTOR OF PUBLIC WORKS
DATE 5/29/90

TRAFFIC SIGNALS

BROCKTON AVE. AND TENTH ST.

HORIZ. SCALE: 1" = 20'

PROJECT NO. 30–576–380–15

X–159

SHEET 1 OF 1

FILE NO.

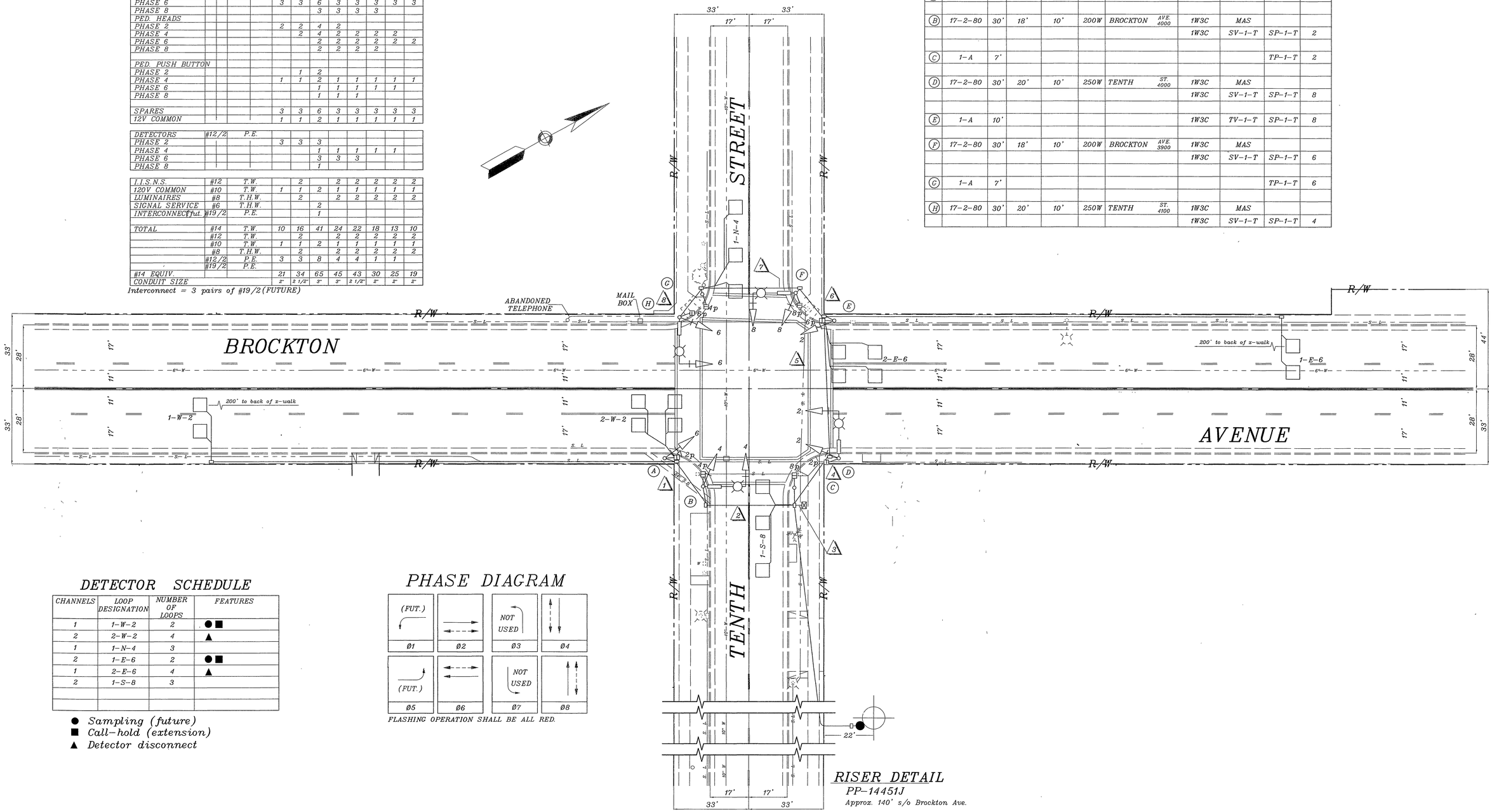
CONDUCTOR SCHEDULE

CONTROL FUNCTION	CONDUCTORS SIZE	CONDUCTORS INSULATION	RUNS 1	2	3	4	5	6	7	8
VEHICLE HEADS	#14	T.W.	–	–	–	–	–	–	–	–
PHASE 2					3	3	3			
PHASE 4				3	3					
PHASE 6			3	3	6	3	3	3	3	3
PHASE 8					3	3	3	3		
PED. HEADS										
PHASE 2			2	2	4	2				
PHASE 4				2	4	2	2	2	2	
PHASE 6					2	2	2	2	2	2
PHASE 8					2	2	2	2		
PED. PUSH BUTTON										
PHASE 2				1	2					
PHASE 4			1	1	2	1	1	1	1	1
PHASE 6					1	1	1	1	1	
PHASE 8					1	1	1			
SPARES			3	3	6	3	3	3	3	3
12V COMMON			1	1	2	1	1	1	1	1
DETECTORS	#12/2	P.E.								
PHASE 2			3	3	3					
PHASE 4					1	1	1	1	1	
PHASE 6					3	3	3			
PHASE 8					1					
I.I.S.N.S.	#12	T.W.		2		2	2	2	2	2
120V COMMON	#10	T.W.	1	1	2	1	1	1	1	1
LUMINAIRES	#8	T.H.W.		2		2	2	2	2	2
SIGNAL SERVICE	#6	T.H.W.			2					
INTERCONNECT(ful.	#19/2	P.E.			1					
TOTAL	#14	T.W.	10	16	41	24	22	18	13	10
	#12	T.W.		2		2	2	2	2	2
	#10	T.W.	1	1	2	1	1	1	1	1
	#8	T.H.W.		2		2	2	2	2	2
	#12/2	P.E.	3	3	8	4	4	1	1	
	#19/2	P.E.								
#14 EQUIV.			21	34	65	45	43	30	25	19
CONDUIT SIZE			2"	2 1/2"	3"	3"	2 1/2"	2"	2"	2"

Interconnect = 3 pairs of #19/2 (FUTURE)

POLE SCHEDULE

No.	STANDARD TYPE	HGT.	SIG. M.A.	LUM. M.A.	LUM. HPSV	I.S.N.S. LEGEND	SIGNAL HEAD	SIGNAL MOUNTING VEHICLE	PED	PPB PHASE
A	1-A	10'					1W3C	TV-1	SP-1-T	4
B	17-2-80	30'	18'	10'	200W	BROCKTON AVE. 4000	1W3C	MAS		
							1W3C	SV-1-T	SP-1-T	2
C	1-A	7'							TP-1-T	2
D	17-2-80	30'	20'	10'	250W	TENTH ST. 4000	1W3C	MAS		
							1W3C	SV-1-T	SP-1-T	8
E	1-A	10'					1W3C	TV-1-T	SP-1-T	8
F	17-2-80	30'	18'	10'	200W	BROCKTON AVE. 3900	1W3C	MAS		
							1W3C	SV-1-T	SP-1-T	6
G	1-A	7'							TP-1-T	6
H	17-2-80	30'	20'	10'	250W	TENTH ST. 4100	1W3C	MAS		
							1W3C	SV-1-T	SP-1-T	4



DETECTOR SCHEDULE

CHANNELS	LOOP DESIGNATION	NUMBER OF LOOPS	FEATURES
1	1-W-2	2	● ■
2	2-W-2	4	▲
1	1-N-4	3	
2	1-E-6	2	● ■
1	2-E-6	4	▲
2	1-S-8	3	

● Sampling (future)
■ Call-hold (extension)
▲ Detector disconnect

PHASE DIAGRAM

(FUT.) Ø1	Ø2	NOT USED Ø3	Ø4
(FUT.) Ø5	Ø6	NOT USED Ø7	Ø8

FLASHING OPERATION SHALL BE ALL RED.

RISER DETAIL

PP-14451J

Approx. 140' s/o Brockton Ave.

MARK	REVISIONS	APPR.	DATE
	AS-BUILT PER TE-90-04	MAC	2/03

DESIGNED BY MAC DRAWN BY MAC CHECKED BY

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
ENGINEERING MANAGER		
PRINCIPAL ENGINEER		
P.W. INSPECTION		
TRAFFIC DIVISION		
PUBLIC UTILITIES		

APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE

TRAFFIC SIGNAL

BROCKTON AVENUE AND TENTH STREET

SCALE: 1" = 20'

ACCT. NO.

X-159

SHEET 1 OF 1

FILE NAME: X159AS.DWG