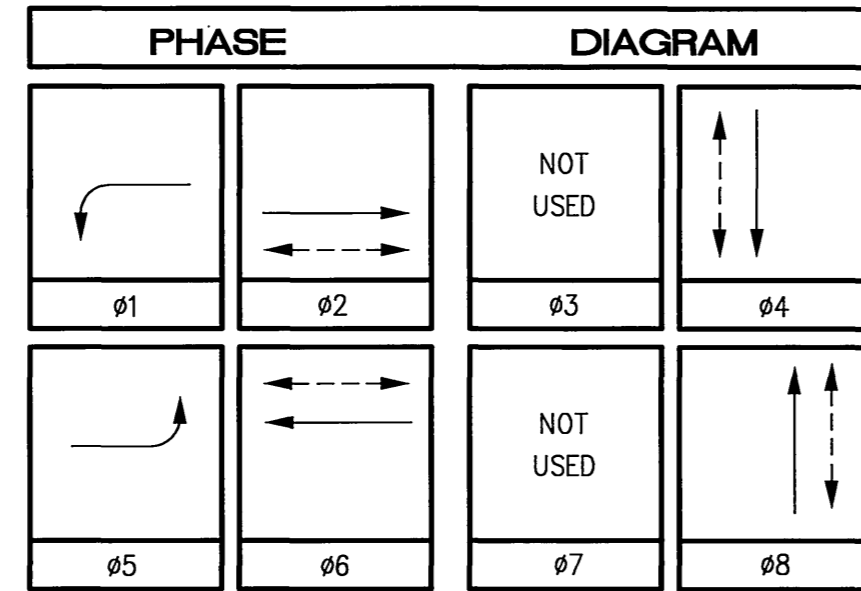


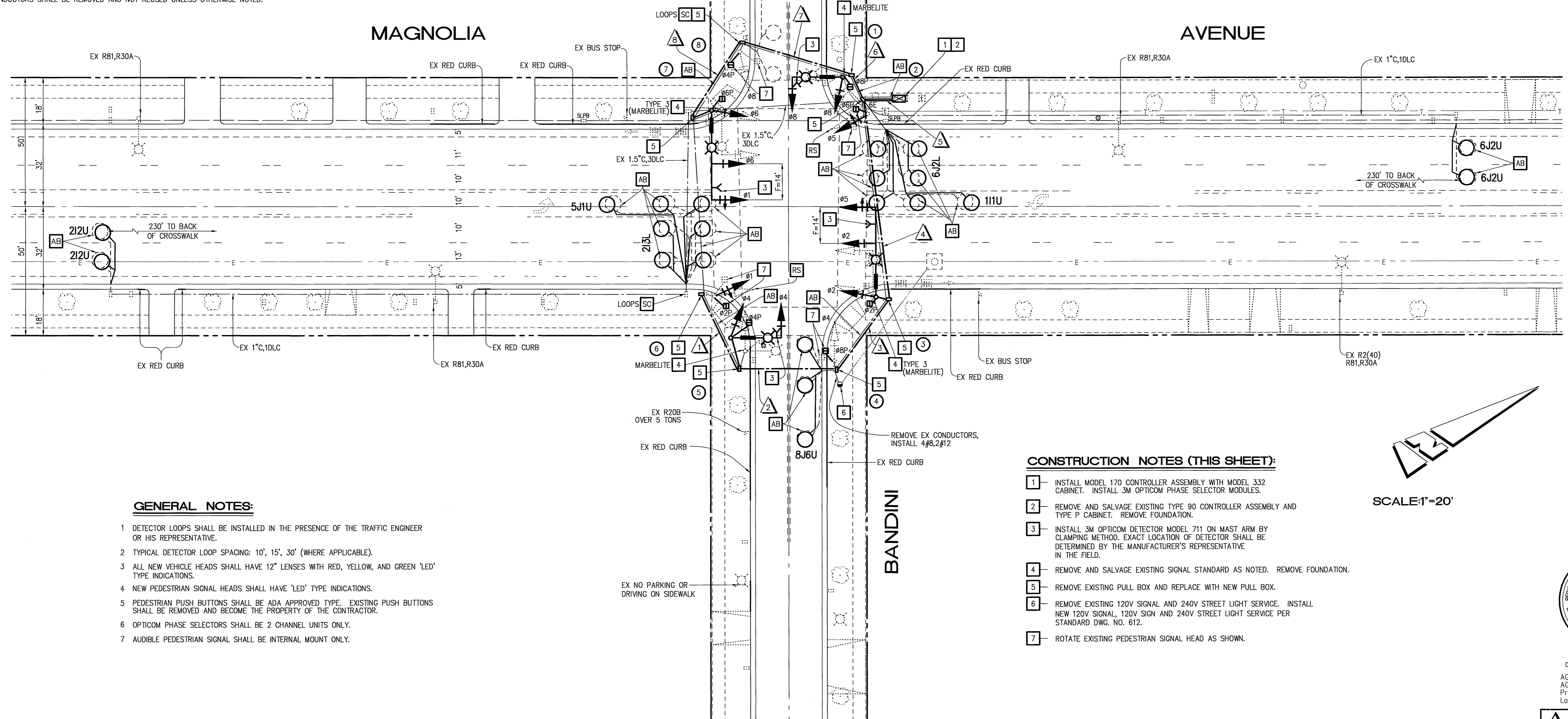
CONDUCTOR		TABLE							
CONTROL FUNCTION	CONDUCTORS	CONDUCTOR RUNS							
		1	2	3	4	8	3	2	1
VEHICLE & PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, SPARES & COMMONS	12 CONDUCTOR IMSA	1	2	3	4	8	3	2	1
	9 CONDUCTOR IMSA	-	-	-	-	-	-	-	-
	5 CONDUCTOR IMSA	-	-	-	-	-	-	-	-
	3 CONDUCTOR IMSA	1	2	3	4	8	3	2	1
DETECTOR CABLE	#16/2	-	-	-	-	1	-	-	-
PHASE 1		-	-	-	-	2	-	-	-
PHASE 2		-	-	-	-	1	1	1	-
PHASE 4		-	-	-	-	1	-	-	-
PHASE 5		-	-	-	-	2	-	-	-
PHASE 6		-	-	-	-	1	-	-	-
PHASE 8		-	-	-	-	1	1	1	-
TOTALS		-	-	1	1	8	1	1	-
EVPE CABLE	#20/4	-	1	1	2	4	2	1	1
ISNS	#12	-	2	2	2	-	2	2	2
LUMINAIRES	#8	-	2	2	2	-	2	2	2
SIGNAL SERVICE	#6	-	2	2	2	-	-	-	-
CONDUIT SIZE		2"	3"	3"	3.5"	2-3.5"	3"	3"	2"

ALL CONDUIT AND CONDUCTORS ARE NEW UNLESS OTHERWISE INDICATED AS (E) EXISTING. EXISTING CONDUCTORS SHALL BE REMOVED AND NOT REUSED UNLESS OTHERWISE NOTED.



No.	TYPE	HGT.	STANDARD		LUMINAIRE HPS	ISNS LEGEND	SCHEDULE				REMARKS		
			SIG. M.A.	LUM. M.A.			SIGNAL MOUNTING		PPB PHASE				
			VEHICLE	PED			VEHICLE	AUDIBLE					
1	17-2-129(N)	30'	20'(N)	12'(N)	250W(N)	Magnolia Ave 3300(N)	-	MAS(N)	SV-1-T(N)	SP-1-T(N)	((C))(N)	#6(N)	
2	1-A	10'	-	-	-	-	-	-	TV-1-T(N)	SP-1-T	((P))(N)	#8(N)	
3	24-4-129(N)	30'	35'(N)	12'(N)	250W(N)	Bandini Ave 3700(N)	MAS(N)	MAS(N)	SV-1-T(N)	SP-1-T(N)	((P))(N)	#8(N)	
4	1-A	10'	-	-	-	-	-	-	TV-1	SP-1-T	((C))(N)	#2(N)	
5	17-2-129(N)	30'	20'(N)	12'(N)	250W(N)	Magnolia Ave 3400(N)	-	MAS(N)	SV-1-T(N)	SP-1-T(N)	((C))(N)	#2(N)	
6	1-A	10'	-	-	-	-	-	-	TV-1-T(N)	SP-1-T	((P))(N)	#4(N)	
7	24-4-129(N)	30'	35'(N)	12'(N)	250W(N)	Bandini Ave 3800(N)	MAS(N)	MAS(N)	SV-1-T(N)	SP-1-T(N)	((P))(N)	#4(N)	
8	1-A	10'	-	-	-	-	-	-	TV-1	SP-1-T	((C))(N)	#6(N)	

ALL EQUIPMENT IS EXISTING UNLESS OTHERWISE INDICATED AS (N) NEW. ((C)) OR ((P)) - INDICATES AUDITORY PEDESTRIAN SIGNAL TO BE INSTALLED; ((C)) INDICATES CUCKOO SOUND; ((P)) INDICATES PEEP-PEEP SOUND.



**GENERAL NOTES:**

- DETECTOR LOOPS SHALL BE INSTALLED IN THE PRESENCE OF THE TRAFFIC ENGINEER OR HIS REPRESENTATIVE.
- TYPICAL DETECTOR LOOP SPACING: 10', 15', 30' (WHERE APPLICABLE).
- ALL NEW VEHICLE HEADS SHALL HAVE 12" LENSES WITH RED, YELLOW, AND GREEN 'LED' TYPE INDICATIONS.
- NEW PEDESTRIAN SIGNAL HEADS SHALL HAVE 'LED' TYPE INDICATIONS.
- PEDESTRIAN PUSH BUTTONS SHALL BE ADA APPROVED TYPE. EXISTING PUSH BUTTONS SHALL BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
- OPTICOM PHASE SELECTORS SHALL BE 2 CHANNEL UNITS ONLY.
- AUDIBLE PEDESTRIAN SIGNAL SHALL BE INTERNAL MOUNT ONLY.

**CONSTRUCTION NOTES (THIS SHEET):**

- INSTALL MODEL 170 CONTROLLER ASSEMBLY WITH MODEL 332 CABINET. INSTALL 3M OPTICOM PHASE SELECTOR MODULES.
- REMOVE AND SALVAGE EXISTING TYPE 90 CONTROLLER ASSEMBLY AND TYPE P CABINET. REMOVE FOUNDATION.
- INSTALL 3M OPTICOM DETECTOR MODEL 711 ON MAST ARM BY CLAMPING METHOD. EXACT LOCATION OF DETECTOR SHALL BE DETERMINED BY THE MANUFACTURER'S REPRESENTATIVE IN THE FIELD.
- REMOVE AND SALVAGE EXISTING SIGNAL STANDARD AS NOTED. REMOVE FOUNDATION.
- REMOVE EXISTING PULL BOX AND REPLACE WITH NEW PULL BOX.
- REMOVE EXISTING 120V SIGNAL AND 240V STREET LIGHT SERVICE. INSTALL NEW 120V SIGNAL, 120V SIGN AND 240V STREET LIGHT SERVICE PER STANDARD DWG. NO. 612.
- ROTATE EXISTING PEDESTRIAN SIGNAL HEAD AS SHOWN.

SCALE: 1"=20'



TRAFFIC No. 1575  
 DATE: 6-8-04  
 AGA Job No.: 134-006  
 AGA File Name: MAGNSBAND  
 Print Date: 6/8/04  
 Last Revision: 6/3/04

**ALBERT GROVER & ASSOCIATES**  
 TRANSPORTATION CONSULTING ENGINEERS  
 211 E. Imperial Hwy., Suite 208 Fullerton, CA 92835  
 (714) 992-2980  
 FAX 992-2983

**CONTRACT TE-04-03**

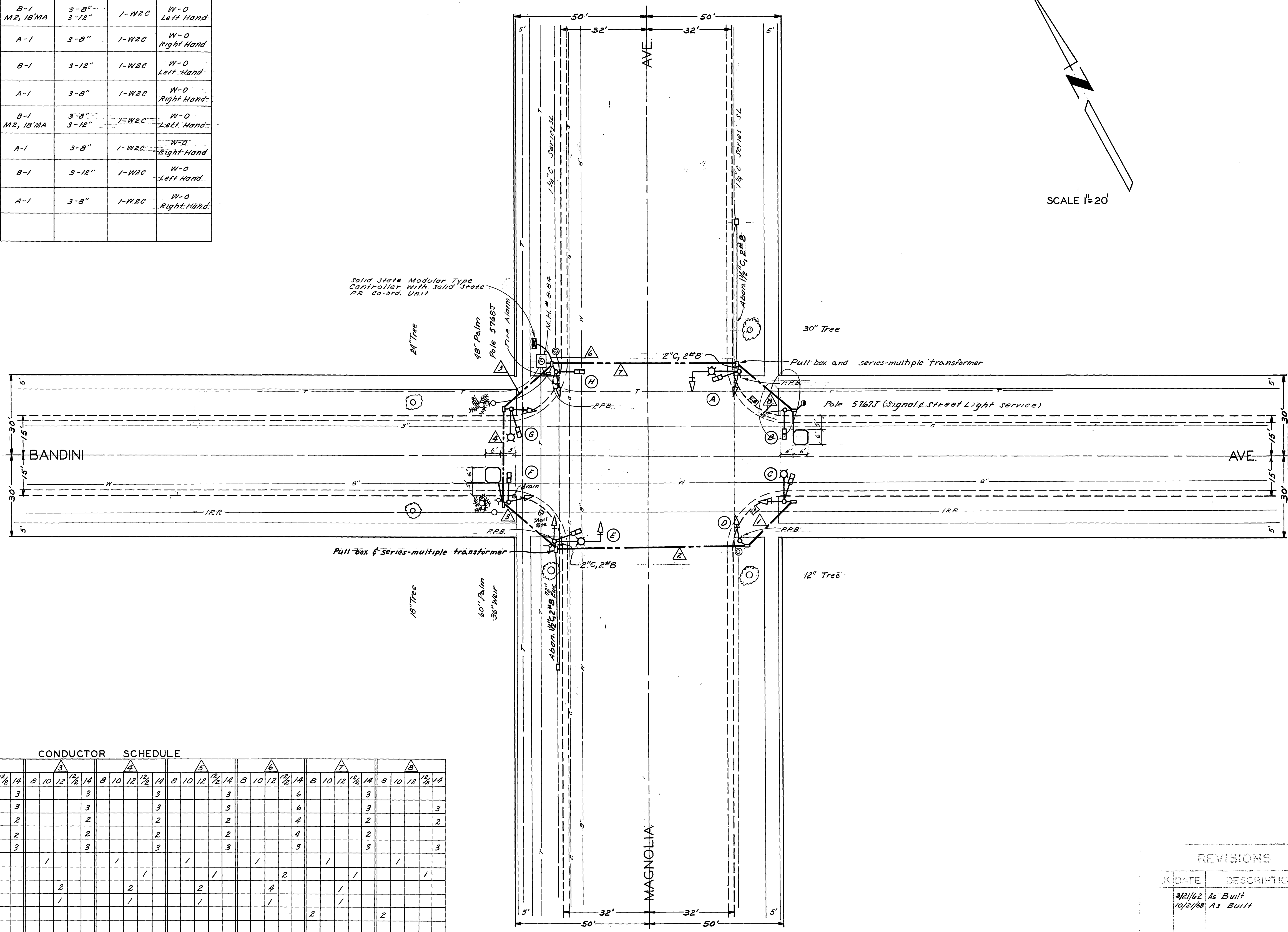
CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS		TRAFFIC SIGNAL PLAN		ACCOUNT NO.
APPROVED BY: <i>[Signature]</i> DATE: 6/10/04 TRAFFIC DIVISION: <i>[Signature]</i>		MAGNOLIA AVENUE AND BANDINI AVENUE		X-203A
APPROVED BY: <i>[Signature]</i> DATE: 6/10/04		HORIZ. SCALE: 1"=20' VERT. SCALE: 1"=		SHEET 6 OF 9



DESIGNED BY: JAT	DRAWN BY: TRB/DMS	CHECKED BY: JAT
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POLE AND SIGNAL SCHEDULE

LOCATION	STANDARD	LUMINAIRE	SIGNALS			WALK-DON'T WALK	
			TYPE	MTG.	LENS SIZE	TYPE	MTG.
A	56J10	20,000 MV	1-W3C 1-W3C	B-1 M2, 18'MA	3-8" 3-12"	1-W2C	W-0 Left Hand
B	10' Type 1		1-W3C	A-1	3-8"	1-W2C	W-0 Right Hand
C	45D6	10,000 MV	1-W3C	B-1	3-12"	1-W2C	W-0 Left Hand
D	10' Type 1		1-W3C	A-1	3-8"	1-W2C	W-0 Right Hand
E	56J10	20,000 MV	1-W3C 1-W3C	B-1 M2, 18'MA	3-8" 3-12"	1-W2C	W-0 Left Hand
F	10' Type 1		1-W3C	A-1	3-8"	1-W2C	W-0 Right Hand
G	45D6	10,000 MV	1-W3C	B-1	3-12"	1-W2C	W-0 Left Hand
H	10' Type 1		1-W3C	A-1	3-8"	1-W2C	W-0 Right Hand



CONDUCTOR SCHEDULE

Conductor Runs	A		B		C		D		E		F		G		H																				
Conductors	8	10	12	1 1/2	14	8	10	12	1 1/2	14	8	10	12	1 1/2	14	8	10	12	1 1/2	14	8	10	12	1 1/2	14	8	10	12	1 1/2	14	8	10	12	1 1/2	14
Ø A																																			
Ø B					3					3					3					3					3					3					3
Ø A W-DW					2					2					2					2					2					2					2
Ø B W-DW					2					2					2					2					2					2					2
Spares					3					3					3					3					3					3					3
120V Neutral					1					1					1					1					1					1					1
Ø B Det.										1					1					1					1					1					1
Ø B PPB										2					2					2					2					2					2
120V Neutral										1					1					1					1					1					1
Signal Service																																			
* 20 C Master Cable																																			
Street Lighting	2					2					2					2					2					2					2				
Total Conductors	2	1			8	2	1			13	2	1			13	2	1			13	2	1			13	2	1			13	2	1			13
Conduit Size					1 1/2"					2"					2"					2"					2"					2"					2"

\* Master cable is in run @ only.

REVISIONS		CITY OF UPLAND CALIFORNIA DEPARTMENT OF PUBLIC WORKS
DATE	DESCRIPTION	
3/2/62	As Built	ADD JMM
10/2/68	As Built	

MAGNOLIA AVE.  
&  
BANDINI AVE.

DESIGNED BY W.D.F.  
DRAWN BY A.D.D.

CHECKED BY  
A.A. School

APPROVED BY  
DATE 4/8/62

X-203