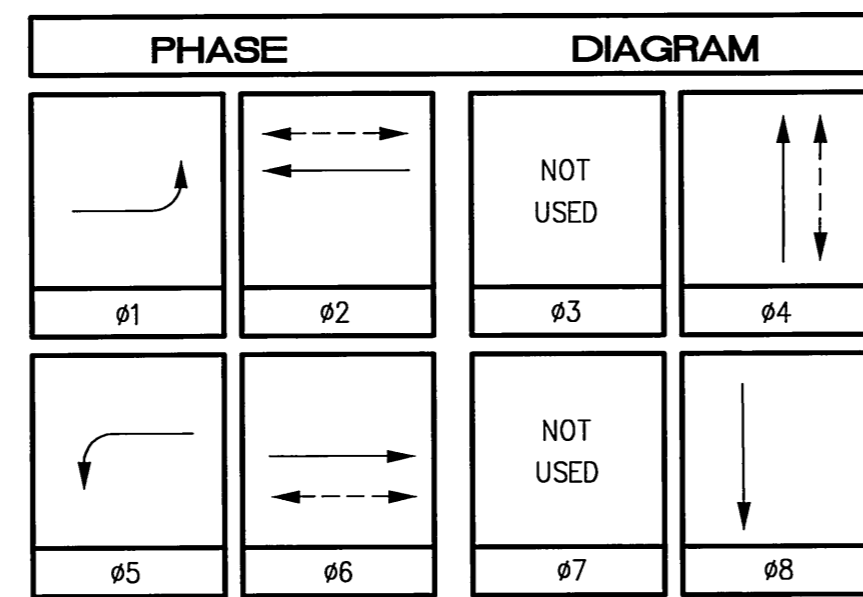


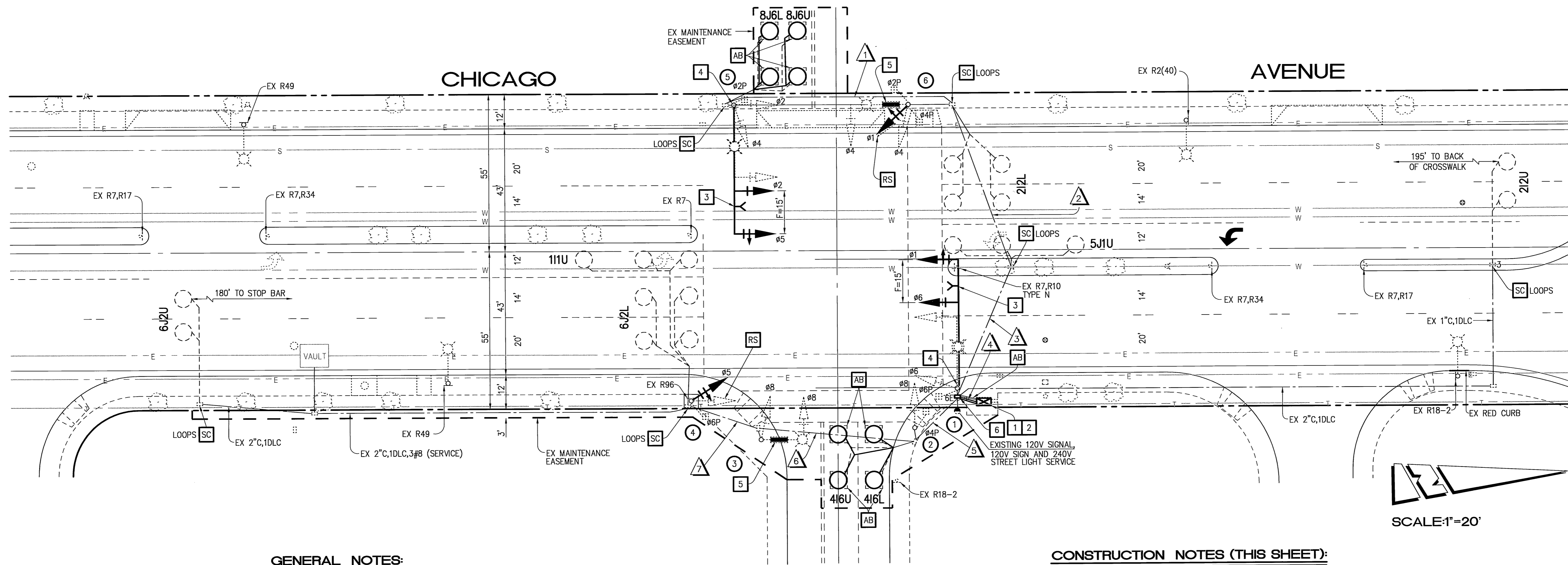
CONDUCTOR		TABLE						
CONTROL FUNCTION	CONDUCTORS	CONDUCTOR				RUNS		
		1	2	3	4	5	6	7
VEHICLE & PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, SPARES & COMMONS	12 CONDUCTOR IMSA	1	2	2	6	3	2	1
	3 CONDUCTOR IMSA	1	3	3	6	2	1	-
DETECTOR CABLE #16/2		-	-	-	1	1	1	1
PHASE 1		-	1	1	2	-	-	-
PHASE 2		-	-	-	2	2	-	-
PHASE 4		-	-	-	2	2	-	-
PHASE 5		-	-	1	1	-	-	-
PHASE 6		-	-	-	2	2	2	2
PHASE 8		2	2	2	2	-	-	-
TOTALS		2	3	4	10	5	3	3
EVPE CABLE #20/4		1	1	1	2	-	-	-
IISNS #12		-	2	2	-	2	2	-
LUMINAIRES #B		2	2	2	-	2	2	-
SIGNAL SERVICE #B		-	-	-	2	3	3	3
CONDUIT SIZE		2"(E)	2.5"(E)	2.5"(E)	2-3.5"	3"(E)	2.5"(E)	2.5"(E)



POLE							SCHEDULE						
No.	TYPE	STANDARD			LUMINAIRE HPS	IISNS LEGEND	SIGNAL MOUNTING			PPB PHASE	REMARKS		
		HGT.	SIG. M.A.	LUM. M.A.			VEHICLE	PED	AUDIBLE				
1	26-3-80	30'	45'(N)	12'	250W	-	MAS(N)	MAS(R)	SV-1-T	SP-1-T	((C))(N)	#4(N)	SEE NOTE 4
2	1-A	10'	-	-	-	-	-	-	TV-1-T	SP-1-T	((P))(N)	#6(N)	
3	17-2-80	30'	15'	12'	200W	Chicago Ave 3900 (N)	-	MAS	SV-1-T	-	-	#6(N)	
4	1-A	10'	-	-	-	-	-	-	TV-1-T(N)	SP-1-T	((C))(N)	-	
5	26-3-80	30'	45'(N)	12'	250W	-	MAS(N)	MAS(R)	SV-2-TB	SP-1-T	((C))(N)	#2(N)	SEE NOTE 4
6	17-2-80	30'	20'	12'	200W	Chicago Ave 3900 (N)	-	MAS	SV-2-TB(N)	SP-2-T	((P))(C))(N)	#2/#4(N)	

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

TOWNE SQUARE



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 25" SIGNAL MAST ARM. CONTRACTOR SHALL VERIFY THE MEASUREMENTS OF THE EXISTING SIGNAL ARM CONNECTION IN THE FIELD PRIOR TO FABRICATING AND INSTALLING THE NEW SIGNAL MAST ARM.
- REPLACE EXISTING IISNS WITH NEW IISNS.
- REPLACE EXISTING PULL BOX WITH NEW PULL BOX.

SCALE: 1"=20'



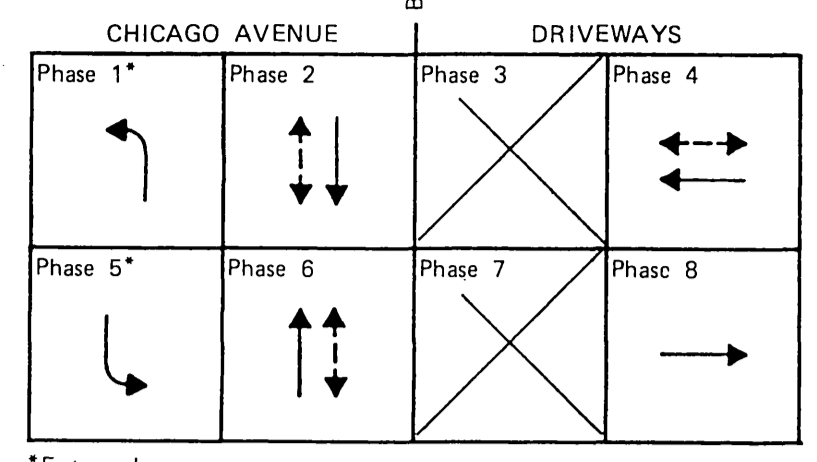
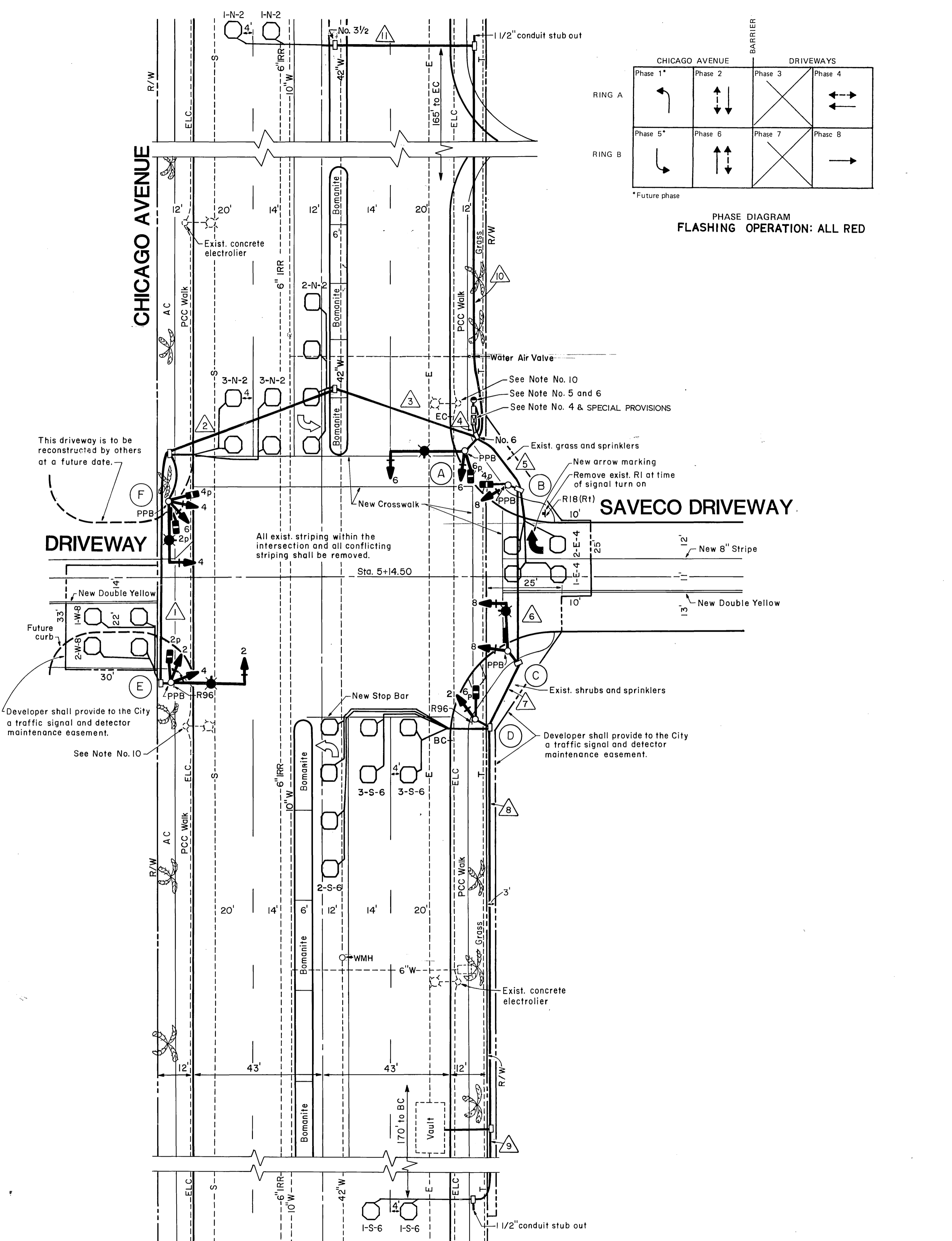
TRAFFIC No. 1575
 DATE: 6-8-04
 AGA Job No.: 134-006
 AGA File Name: CHICAGOPLAZA
 Print Date: 6/8/04
 Last Revision: 5/19/04

ALBERT GROVER & ASSOCIATES
 TRANSPORTATION CONSULTING ENGINEERS
 211 E. Imperial Hwy., Suite 208 Fullerton, CA 92835
 (714) 922-2990
 FAX 922-2983

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:		CHICAGO AVENUE AND CHICAGO PLAZA (515' SOUTH OF UNIVERSITY AVE.) X-131A	
MARK: REVISIONS: APPR. DATE:		SHEET 3 OF 9	
DESIGNED BY: JAT DRAWN BY: TRB/DMS CHECKED BY: JAT		HORIZ. SCALE: 1"=20' VERT. SCALE: 1"= -	

Underground Service Alert
 Call: TOLL FREE 1-800-227-2600
 TWO WORKING DAYS BEFORE YOU DIG



PHASE DIAGRAM
FLASHING OPERATION: ALL RED

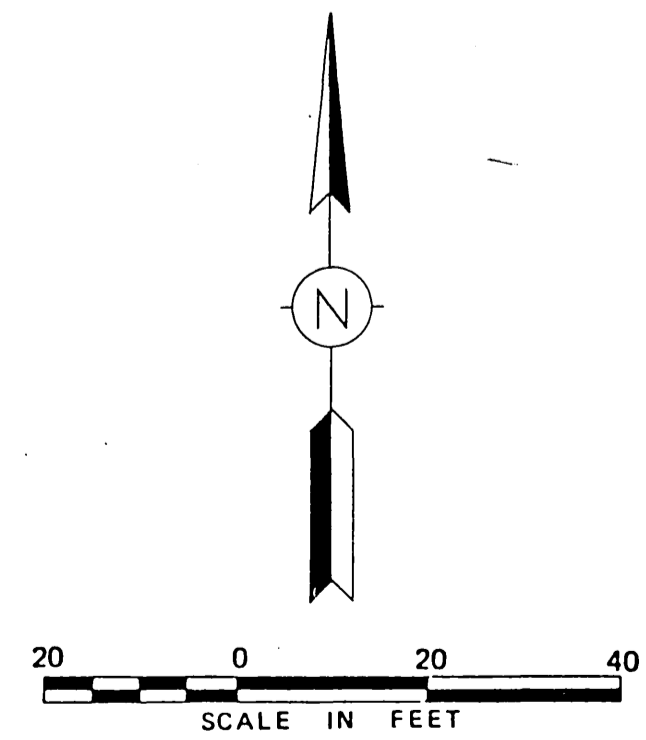
CONDUIT AND CONDUCTOR SCHEDULE		RUN											
A.W.G.	PHASE	CIRCUIT	1	2	3	4	5	6	7	8	9	10	11
	1*	Signal	-	-	-	3	-	-	-	-	-	-	-
	2**	Signal	3	3	3	9	3	3	3	-	-	-	-
	4	Signal	3	3	3	-	-	-	-	-	-	-	-
	5*	Signal	3	3	3	-	-	-	-	-	-	-	-
	6**	Signal	-	3	3	6	-	-	-	-	-	-	-
	8	Signal	-	-	-	3	3	3	-	-	-	-	-
No. 14	2p	Signal	2	2	2	2	-	-	-	-	-	-	-
	4p	Signal	-	2	2	4	2	-	-	-	-	-	-
	6p	Signal	-	-	-	2	2	2	2	-	-	-	-
	2p	PPB	1	1	1	1	-	-	-	-	-	-	-
	4p	PPB	-	1	1	1	-	-	-	-	-	-	-
	6p	PPB	-	-	-	1	1	1	-	-	-	-	-
	12 V. Common		1	1	1	2	1	1	-	-	-	-	-
	Spares		3	3	3	6	3	3	3	-	-	-	-
TOTAL			16	22	22	46	15	13	8	-	-	-	-
No. 12	Sign Lighting		-	2	2	-	2	2	-	-	-	-	-
No. 10	Signal Common		1	1	1	2	1	1	1	-	-	-	-
	2	Loop Detector	-	1	2	3	-	-	-	-	-	1	1
	4	Loop Detector	-	-	-	1	1	-	-	-	-	-	-
	6	Loop Detector	-	-	-	3	3	3	1	1	-	-	-
	8	Loop Detector	2	2	2	2	-	-	-	-	-	-	-
TOTAL			2	3	4	9	4	3	3	1	1	1	1
No. 8	Service		-	-	-	3	3	3	3	3	-	-	-
	Luminaire		2	2	2	-	2	2	-	-	-	-	-
TOTAL			2	2	2	3	5	3	3	3	-	-	-
Conduit Size			2" 2.5" 2.5" 2@3" 3" 2.5" 2.5" 2" 2" 2" 1"										

* Future phase
** Vehicle Phases 2 and 6 at Pole Locations D and F, respectively, shall have color-coded conductor insulation conforming to future Phases 5 and 1. Those conductors shall be labeled for the current phase assignment in all pull boxes and in the controller cabinet.

LOCATION	SIGNAL STANDARD Type	SIGNAL STANDARD		VEHICLE SIGNAL MOUNTING			PEDESTRIAN SIGNAL MOUNTING	PEDESTRIAN PUSH BUTTON PHASE	ILLUMINATED STREET NAME SIGN LEGEND
		Signal Mast Arm	Luminaire Mast Arm	Pole	Interior Mast Arm	End Mast Arm			
A	26-3-80*	25'	12'	SV-1-T	-	MAS	SP-1-T	4p	-
B	1-A	-	-	TV-1-T	-	-	SP-1-T	6p	-
C	17-2-80	15'	12'	SV-1-T	-	MAS	-	6p	Chicago Ave 3900
D	1-A	-	-	TV-1-T	-	-	SP-1-T	-	-
E	26-3-80*	25'	12'	SV-2-TB	-	MAS	SP-1-T	2p	-
F	17-2-80	20'	12'	SV-2-TB	-	MAS	SP-2-T	2p, 4p	Chicago Ave 3900

* Fabricate the pole to accommodate a future 45-foot-long signal mast arm.

- NOTES**
- THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT AND SHALL PERFORM ALL LABOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, DATED JAN. 1988, AND STANDARD PLANS, DATED JAN. 1988, UNLESS NOTED OTHERWISE ON THE PLAN, IN THE SPECIAL PROVISIONS, OR IN THE STANDARD DRAWINGS OF THE CITY OF RIVERSIDE, CALIFORNIA.
 - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND FACILITIES, PUBLIC OR PRIVATE, AND TO PROTECT THEM FROM DAMAGE. AT LEAST TWO WORKING DAYS BEFORE THE START OF EXCAVATION, THE CONTRACTOR SHALL REQUEST UTILITY LOCATIONS FROM UNDERGROUND SERVICE ALERT (TELEPHONE 800/422-4133). THE CONTRACTOR SHALL BEAR THE TOTAL EXPENSE OF REPAIR OR REPLACEMENT OF ANY UNDERGROUND FACILITIES DAMAGED BY HIS OPERATIONS.
 - THE CONTRACTOR SHALL VERIFY WITH THE ENGINEER THE PRECISE INSTALLATION LOCATIONS OF ALL TRAFFIC SIGNAL EQUIPMENT PRIOR TO INSTALLATION.
 - INSTALL AN EIGHT-PHASE TYPE 80 CONTROLLER WITH A TIME-BASED COORDINATOR, AS MANY DETECTOR SENSOR UNITS AS REQUIRED, AND AUXILIARY EQUIPMENT IN A TYPE P CABINET. THE SENSOR UNIT FOR LOOPS 2-E-4 AND 2-W-8 SHALL HAVE A DELAY TIMER. THE TOP OF THE FOUNDATION FOR THE TYPE P CABINET SHALL BE 9 INCHES ABOVE THE SURROUNDING GRADE. A 1-INCH DIAMETER, SCREENED DRAIN PIPE SHALL BE PROVIDED THROUGH THE FOUNDATION. SEE SPECIAL PROVISIONS.
 - INSTALL A 120-VOLT SIGNAL AND STREET NAME SIGN LIGHTING SERVICE AND A 240-VOLT LUMINAIRE SERVICE IN CONFORMANCE WITH CITY OF RIVERSIDE STANDARD DRAWING NO. 667.
 - THE CONTRACTOR SHALL NOTIFY THE CITY OF RIVERSIDE PUBLIC UTILITIES DEPARTMENT (TELEPHONE 714/782-5511) AT LEAST ONE WEEK IN ADVANCE FOR CLEARANCE AND ENTRY TO THE ELECTRICAL UNDERGROUND VAULT. THE CONTRACTOR SHALL PERFORM ALL REQUIRED WORK UNDER THE SUPERVISION OF THE PUBLIC UTILITIES REPRESENTATIVE. THE SPICE CONNECTION IN THE VAULT WILL BE PERFORMED BY UTILITIES PERSONNEL.
 - LUMINAIRES SHALL BE CUTOFF TYPE WITH INTEGRAL BALLASTS AND PHOTOELECTRIC CONTROLS. ALL LUMINAIRES SHALL HAVE HIGH-PRESSURE, SODIUM LAMPS. LUMINAIRES ON POLES A AND E SHALL HAVE 250-WATT LAMPS, AND POLES C AND F SHALL HAVE 200-WATT LAMPS.
 - UNLESS NOTED OTHERWISE, DETECTOR LOOPS SHALL BE CENTERED IN THE LANE AND SHALL BE 6 FEET BY 6 FEET, SPACED 10 FEET APART. IN THE VICINITY OF CROSSWALKS AND STOP BAR, THE FIRST LOOP SHALL BE INSTALLED IN FRONT OF THE STRIPE.
 - INSTALL TYPE A INTERNALLY ILLUMINATED STREET NAME SIGNS ON POLES C AND F IN CONFORMANCE WITH THE SPECIAL PROVISIONS AND STANDARD DRAWING NO. 662B. EACH SIGN WILL HAVE A PHOTOELECTRIC CONTROL.
 - SALVAGE THE EXISTING CONCRETE ELECTROLIER AND DELIVER TO THE CITY OF RIVERSIDE MAINTENANCE YARD AT 8095 LINCOLN AVENUE. REMOVE COMPLETELY THE EXISTING FOUNDATION. INSTALL A PULL BOX AND SPLICE THE EXISTING NO. 8 STREET LIGHTING CONDUCTORS.
 - ALL NEW SIGNING AND STRIPING AND ALL REMOVALS SHALL BE DONE BY THE CONTRACTOR. SEE SPECIAL PROVISIONS.
 - DONALD FRISCHER & ASSOCIATES ASSUMES RESPONSIBILITY FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THIS PLAN. IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCTION, DONALD FRISCHER & ASSOCIATES SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE CITY.



PACIFIC BELL TELEPHONE COMPANY
SOUTHERN CALIFORNIA GAS COMPANY
CITY OF RIVERSIDE WATER DIVISION

APPROVED: *[Signatures]*
DATE: 9-3-86



DONALD FRISCHER & ASSOCIATES
TRAFFIC AND TRANSPORTATION • ENGINEERS AND PLANNERS
14431 HAMLIN STREET • SUITE 1
VAN NUYS, CALIFORNIA • 91401
AREA CODE 818 • PHONE 785-1578

DESIGNED: BB
DRAWN: TK
CHECKED: VJV
PLAN PREPARED UNDER THE SUPERVISION OF:
[Signature]
DONALD FRISCHER
REGISTERED CIVIL ENGINEER NO. 9141

REVISIONS
APPR. DATE
DESIGNED BY: _____
DRAWN BY: _____
CHECKED BY: _____

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY: *[Signature]*
DATE: 2-10-87
DIRECTOR OF PUBLIC WORKS

TRAFFIC SIGNAL PLAN
CHICAGO AVENUE
AND DRIVEWAYS
515 FEET SOUTH OF
UNIVERSITY AVENUE

SCALE: 1" = 20'

ACCOUNT NO.
DRAWING NUMBER
X-131
SHEET 1 OF 1

CONTRACT TE-89-1