

CONDUCTOR SCHEDULE									
AWG	CONDUCTOR	CONDUIT RUN							
		①	②	③	④	⑤	⑥	⑦	⑧
ø1									
ø2				3	3	3	3	3	
ø3				③	③	③			
ø4		③	③	③	③	③			
ø5				3	3	3	3	3	
ø6				3	3				
ø7		③	③	③	③	③	③	③	③
ø8				③	③	③	③	③	③
ø2PED		②	②	②	②	②	②	②	
ø4PED		②	②	②	②	②	②	②	
ø6PED				2	2	2	2	2	
ø8PED				②	②	②	②	②	②
ø2PPB		①	①	①	①	①	①	①	①
ø4PPB		①	①	①	①	①	①	①	①
ø6PPB				2	2	1			
ø8PPB				②	②	②	②	②	②
PPB COMMON		①	①	①	①	①	①	①	①
SPARE		③	③	③	③	③	③	③	③
TOTAL #14		⑬	⑱	⑳	④①	②①	③①	②①	③①
#12	I.I.S.N.S.	②	②	②	②	②	②	②	②
#10	SIGNAL COMMON	①	①	①	①	①	①	①	①
#8	LUMINAIRE	②	②	②	②	②	②	②	②
#6	SERVICE				2				
DLC									
ø1				1	1	1	1	1	
ø2		2	2	2	①	①	①	①	①
ø3				2	2				
ø4				1	1				
ø5		1	1	2	2	2	2	2	
ø6				2	2	2	2	2	
ø7				1	1				
ø8				②	②	②	②	②	②
TOTAL DLC		3	3	9	③	③	③	③	③
INTERCONNECT CABLE (I.C.)		1	1	1					
CONDUIT SIZE		2"	3"	3"	2-3"	3"	3"	3"	3"

DETECTOR SCHEDULE			
CHANNELS	LOOP DESIGNATION	NUMBER OF LOOPS	FEATURES
1	1-S-2	2(E)	○ □
2	2-S-2	4(E)	
1	1-S-5	3(E)	○ □
2	1-N-6	2(E)	○ □
1	2-N-6	4(E)	
2	1-N-1	3(E)	○ □
1	1-W-4	1(E)	○ □
2	2-W-4	2(E)	
1	1-W-7**	3(E)	
2	1-E-3(N)	③	
1	1-E-8(N)	②	
2	2-E-8(F)	2(F)	

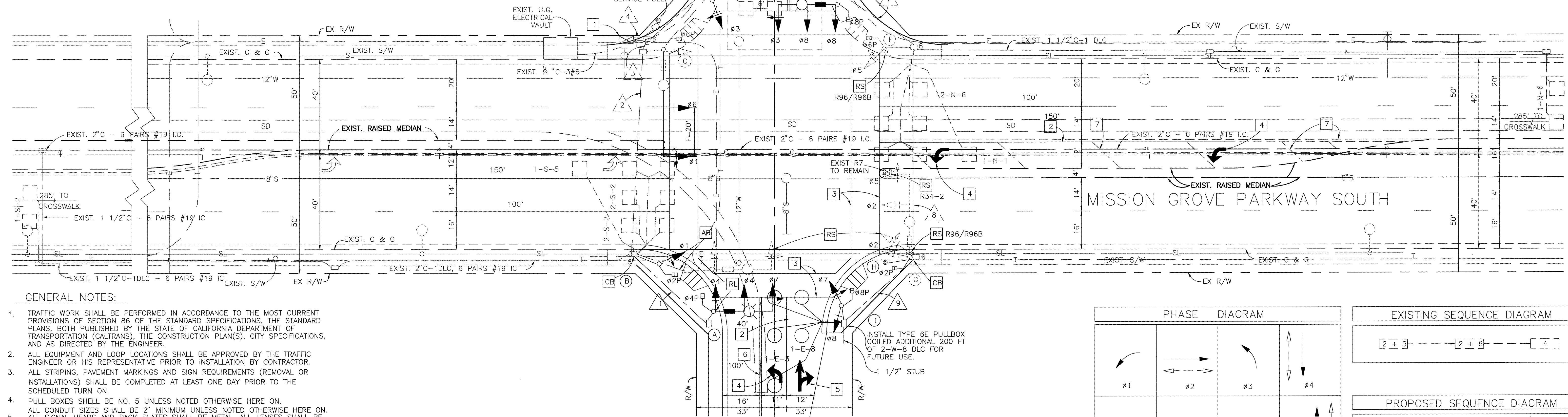
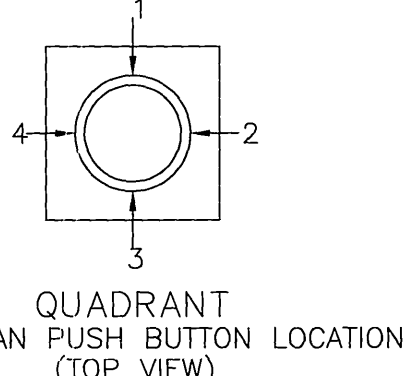
DETECTOR SHALL BE RACK-MOUNTED 2-CHANNEL  
 (E) EXISTING LOOP - PROTECT IN PLACE  
 (F) FUTURE LOOP  
 ○ INSTALL NEW 6" CIRCULAR LOOP AS SHOWN  
 \*\* CHANGE CONNECTION FROM 3-W-4 TO 1-W-7.  
 ● CALL-HOLD (EXTENSION)  
 ■ FOR SAMPLING

ALL CONDUCTORS AND CONDUITS EXISTING IN PLACE UNLESS OTHERWISE NOTED:  
 (N) = INSTALL NEW CONDUIT (SIZE PER CONDUCTOR TABLE)  
 ○ - INSTALL NEW CONDUCTORS AS SHOWN WITHOUT SPLICING.

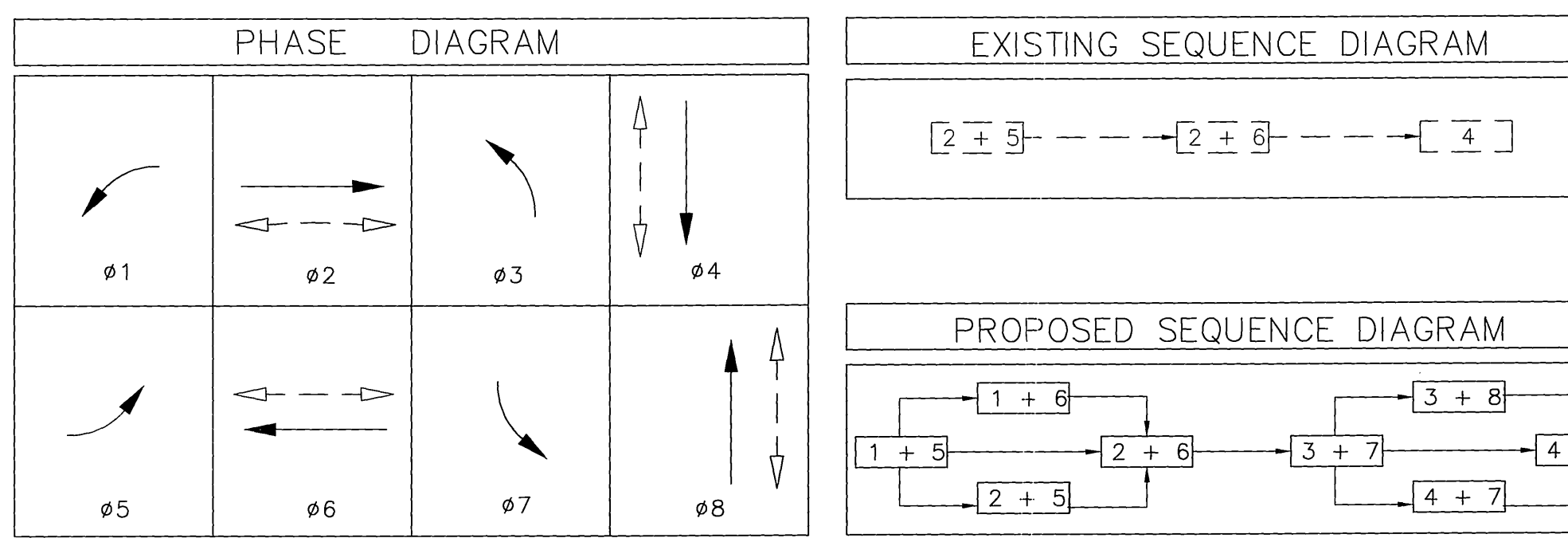
POLE SCHEDULE												
NO.	POLE TYPE	HEIGHT	MAST ARM LENGTH		SIGNAL MOUNTING			PPB	H.P.S.V.	I.I.S.N.S. LEGEND	REMARKS	
			SIGNAL	LUMINAIRE	MA	POLE	PED					
A	19A-4-80 (R)	35'	25'(E)	15'(E)	MAS+ MAS(N)	SV-1-T(E)	SP-1-T(E)	2(R)	1	250 W(E)	Mission Grove Pkwy. S (E) 7600	PERFORM WORK AS SHOWN
B	1-A(N)	10'				TV-1-T(N)	SP-1-T(N)	4(N)	2			
C	26A-4-80 (E)	35'	45'(N)	15'(E)	MAS(R) MAS(N)	SV-1-T(E)	SP-1-T(E)	4(E)	2	250 W(E)	Mission Village Dr. 300 E (E)	SALVAGE EXISTING 25' M.A. INSTALL NEW 45' AS SHOWN
D	1-A (E)	10'				TV-1-T(S) TV-2-T(N)	SP-1-T(E)	6(E)	3			SALVAGE EXISTING TV-1-T MOUNTING, INSTALL NEW TV-2-T. REUSE EXISTING ø4 HEAD
E	19A-4-80 (E)	35'	25'(N)	15'(E)	2-MAS (N)	SV-1-T(N)	SP-1-T(N)	6(E)	3	250 W(E)	Mission Grove Pkwy. S (N) 7500	
F	1-A (E)	10'				TV-1-T(E)	SP-1-T(N)	8(N)	4			
G	24A-4-80 (E)	35'	35'(E)	15'(E)	2-MAS (E)	SV-2-T(S) SV-1-T(N)	SP-1-T(N)			250 W(E)	Mission Village Dr. 400 E (E)	SALVAGE EXISTING SV-2-T MOUNTING, INSTALL NEW SV-1-T. REUSE EXISTING ø2 HEAD
H	PPB POST (N)	3'-10"						8(N)	4			
I	1-A (N)	10'				TV-2-T(N)	SP-1-T(N)	2(N)	1			

EXACT POLE LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER  
 ALL TYPE 1-A STANDARDS SHALL BE SPUN ALUMINUM  
 (N) = NEW  
 (E) = EXISTING  
 (R) = RELOCATE AS SHOWN  
 (S) = REMOVE AND SALVAGE TO CITY YARD  
 \* REMOVE EXISTING 4-SECTION HEAD AND REPLACE WITH 3-SECTION HEAD, ALL ARROW LENSES FOR EASTBOUND LEFT-TURN MOVEMENT.

- CONSTRUCTION NOTES:
- EXISTING TYPE 90 CONTROLLER, PROTECT IN PLACE. INSTALL ADDITIONAL SENSOR UNIT AND LOAD SWITCH FOR INTENDED OPERATIONS
  - PAINT NEW 8" SOLID WHITE (DETAIL 38)
  - PAINT NEW 12" SOLID WHITE (CROSSWALK)
  - PAINT NEW TYPE IV ARROW MARKING
  - PAINT NEW TYPE VII (R) ARROW MARKING
  - PAINT NEW 4" / 4" DOUBLE YELLOW (DETAIL 22)
  - REMOVE EXISTING STRIPING BY SAND BLASTING



- GENERAL NOTES:
- TRAFFIC WORK SHALL BE PERFORMED IN ACCORDANCE TO THE MOST CURRENT PROVISIONS OF SECTION 86 OF THE STANDARD SPECIFICATIONS, THE STANDARD PLANS, BOTH PUBLISHED BY THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS), THE CONSTRUCTION PLAN(S), CITY SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER.
  - ALL EQUIPMENT AND LOOP LOCATIONS SHALL BE APPROVED BY THE TRAFFIC ENGINEER OR HIS REPRESENTATIVE PRIOR TO INSTALLATION BY CONTRACTOR.
  - ALL STRIPING, PAVEMENT MARKINGS AND SIGN REQUIREMENTS (REMOVAL OR INSTALLATIONS) SHALL BE COMPLETED AT LEAST ONE DAY PRIOR TO THE SCHEDULED TURN ON.
  - PULL BOXES SHALL BE NO. 5 UNLESS NOTED OTHERWISE HERE ON.
  - ALL CONDUIT SIZES SHALL BE 2" MINIMUM UNLESS NOTED OTHERWISE HERE ON. ALL SIGNAL HEADS AND BACK PLATES SHALL BE METAL. ALL LENSES SHALL BE GLASS. LEFT-TURN HEADS SHALL HAVE RED, YELLOW AND GREEN ARROWS. ALL VEHICLE INDICATIONS SHALL BE 12". PEDESTRIAN INDICATION SHALL BE INTERNATIONAL SYMBOL TYPE "C".
  - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES, PUBLIC OR PRIVATE, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR THE TOTAL EXPENSE OF REPAIR OR REPLACEMENT OF ANY UNDERGROUND FACILITY DAMAGED BY HIS OPERATIONS.
  - UNLESS SHOWN OTHERWISE, ALL INDUCTIVE LOOPS SHALL BE 6" CIRCULAR WITH 10' SPACING IN THE DIRECTION OF TRAVEL NECESSARY STRIPING SHALL BE LOCATED PRIOR TO POSITIONING DETECTORS.
  - SPLICING OF THE CONDUCTORS IS NOT ALLOWED.
  - THIS WORK REQUIRES A "STREET OPENING" PERMIT OBTAINED AT THE PUBLIC WORKS COUNTER.
  - INSPECTION FEE WILL BE AT THE RATE OF \$38.50 PER HOUR; MOBILIZATION FEE IS \$49.50 CONTACT SIGNAL MAINTENANCE AT (909) 351-6096
  - THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE WORK HEREON. IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE CITY.
  - ALL SALVAGE MATERIALS SHALL BE DELIVERED TO CITY YARD AT 8095 LINCOLN AVENUE.
  - ABANDONED FOUNDATIONS SHALL BE COMPLETELY REMOVED.
  - FOR ROADWAY CONSTRUCTION DETAILS SEE STREET IMPROVEMENT PLAN R-3383.
  - HOT-MELT RUBBERIZED ASPHALT SEALANT SHALL BE USE FOR DETECTOR LOOP INSTALLATION.



Underground Service Alert Call: TOLL FREE 1 - 800 422 - 4133 <b>TWO WORKING DAYS BEFORE YOU DIG</b>	<b>PRIVATE ENGINEERING NOTE</b> CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.	PREPARED UNDER THE DIRECTION OF  REGISTERED CIVIL ENGINEER NO. 17550 EXPIRATION DATE: 6/30/97 DATE: 11/04/96 RECOMMENDED BY: DATE:	 <b>J.F. Davidson Associates, Inc.</b> ENGINEERING PLANNING SURVEYING LANDSCAPE ARCHITECTURE Corporate Headquarters 1777 Atlanta Avenue, Suite G5 P.O. BOX 493 Riverside, CA 92502 (909) 686-0844 FAX (909) 686-5954	CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS APPROVED BY: BY DATE: APPROVED BY: BY DATE: PRINCIPAL ENGINEER: <i>[Signature]</i> 3/24/97 INSPECTION: <i>[Signature]</i> 3/14/97 TRAFFIC DIVISION: <i>[Signature]</i> 3/14/97 CHIEF P.W. ENGINEER: <i>[Signature]</i> 4/1/97 PUBLIC UTILITIES:	SIGNAL MODIFICATION PLAN <b>MISSION GROVE PKWY SOUTH</b> AT <b>MISSION VILLAGE DRIVE</b> FOR: KAUFMAN AND BROAD	PROJECT NO. 921281 <b>X-364A</b> SHEET 1 OF FILE NO:

INDEX 4-24-97 4th  
 File W/ R-3383

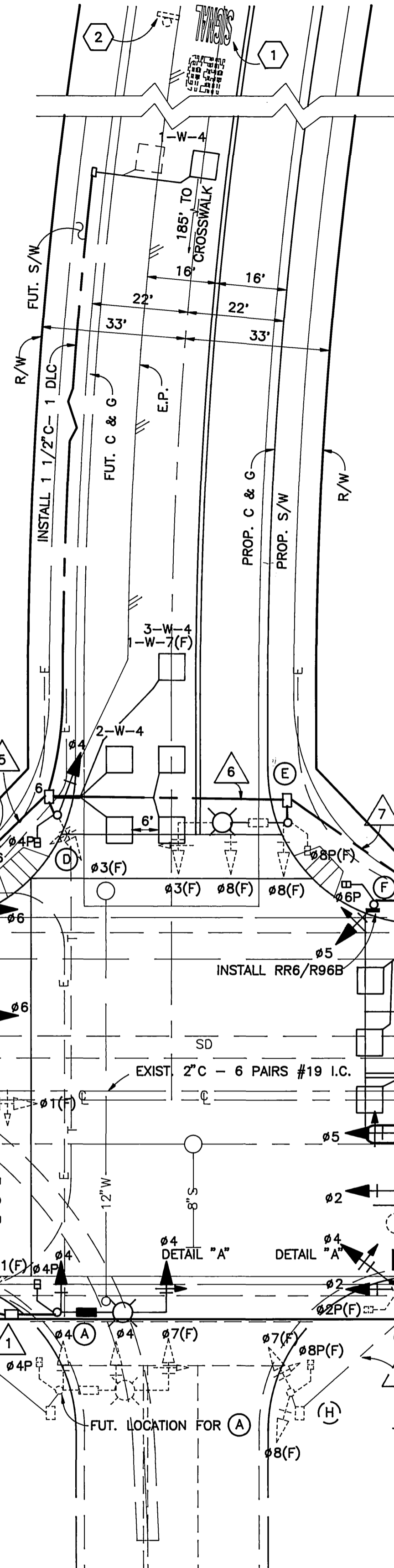


CONDUCTOR SCHEDULE												
AWG	CONDUCTOR	CONDUIT RUN										
		1	2	3	4	5	6	7	8	9	10	11
#14	Ø1(F)			3	3	3	3	3	3	3	3	3
	Ø2			3	3	3	3	3	3	3	3	3
	Ø3			3	3	3	3	3	3	3	3	3
	Ø4	3	3	3	3	3	3	3	3	3	3	3
	Ø5			3	3	3	3	3	3	3	3	3
	Ø6			3	3	3	3	3	3	3	3	3
	Ø7		3	3	3	3	3	3	3	3	3	3
	Ø8(F)			3	3	3	3	3	3	3	3	3
	Ø2PED (F)		2	2	2	2	2	2	2	2	2	2
	Ø4PED		2	2	2	2	2	2	2	2	2	2
	Ø8PED (F)		2	2	2	2	2	2	2	2	2	2
	Ø2PPB (F)		1	1	1	1	1	1	1	1	1	1
	Ø4PPB		1	1	1	1	1	1	1	1	1	1
	Ø6PPB		1	1	1	1	1	1	1	1	1	1
Ø8PPB (F)		1	1	1	1	1	1	1	1	1	1	
PPB COMMON	1	1	1	1	1	1	1	1	1	1	1	
SPARE	3	3	3	3	3	3	3	3	3	3	3	
TOTAL #14	9	10	16	22	27	33	40	47	54	61	68	

DETECTOR SCHEDULE			
CHANNELS	LOOP DESIGNATION	NUMBER OF LOOPS	FEATURES
1	1-S-2	2	● ■
2	2-S-2	4	● ■
1	1-S-5	3	● ■
2	1-N-6	2	● ■
1	2-N-6	4	● ■
2	1-N-1	3	● ■
1	1-W-4	1	● ■
2	2-W-4	2	● ■
1	3-W-4	3	● ■
2	1-E-8(F)	1	● ■
1	2-E-8(F)	2	● ■
2	1-E-3(F)	3	● ■

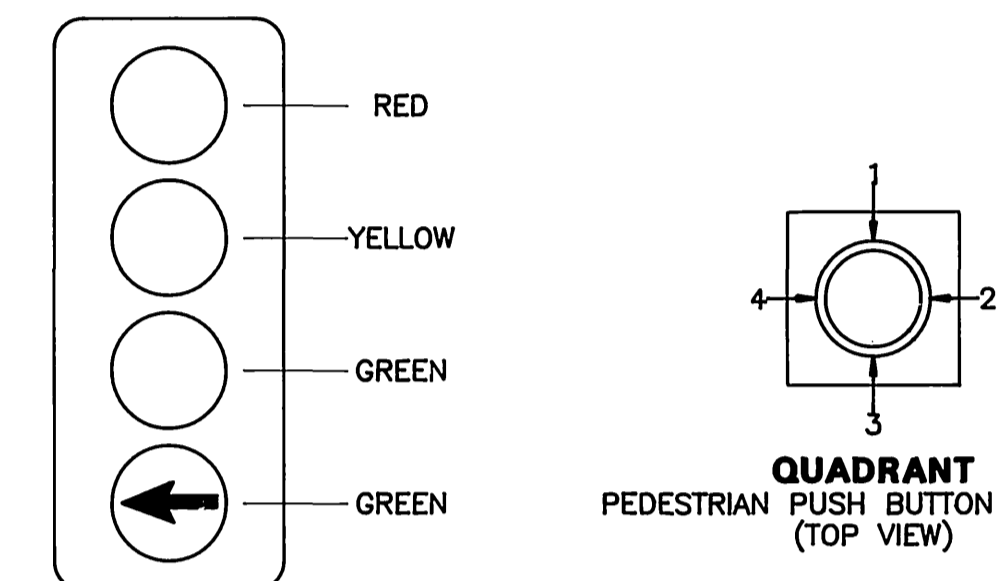
○ FUTURE INSTALLATION  
 ⊗ INSTALL FOR FUTURE USE  
 ● CALL-HOLD (EXTENSION)  
 ■ FOR SAMPLING  
 DETECTOR SHALL BE RACK-MOUNTED 2-CHANNEL (ALSO SEE SPECIAL PROVISIONS)  
 NOTES:  
 1. DETECTOR TIMING AND SAMPLING FEATURE MAY BE ACCOMPLISHED THROUGH INTERNAL LOGIC OF THE CONTROLLER UNIT.  
 2. SEE SPECIAL PROVISIONS REGARDING DETECTOR DISCONNECT.  
 3. DETECTOR LOOPS DESIGNATED FOR SAMPLING SHALL ALSO PERFORM NORMAL OPERATION.

MISSION VILLAGE DRIVE

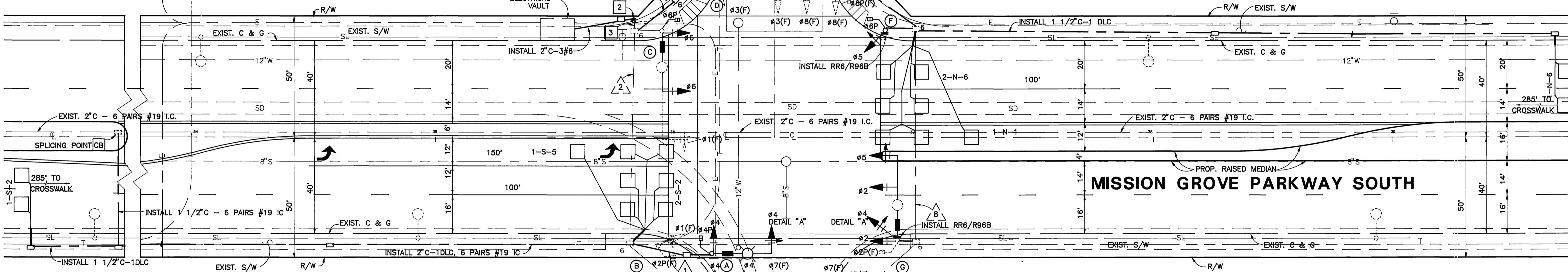


POLE SCHEDULE												
NO.	TYPE	HEIGHT	MAST ARM LENGTH		SIGNAL MOUNTING			PPB	H.P.S.V. LUMINAIRE	I.I.S.N.S. LEGEND	REMARKS	
			SIGNAL	LUMINAIRE	MA	POLE	PED					
(A)	19A-4-80	35'	25'	15'	MAS MAS(F)	SV-1-T	SP-1-T	4 2(F)	4 1	250 W.	Mission Grove Pkwy. S 7600	
(B)	1-A(F)	10'(F)				TV-1-T(F)	SP-1-T(F)	4(F)	2		FUTURE LOCATION	
(C)	26A-4-80 (E)	35'(E)	25' 45'(F)	15'(E)	MAS MAS(F)	SV-1-T	SP-1-T	4	2	250 W.(E)	Mission Village Dr. 300 E	
(D)	1-A	10'				TV-1-T	SP-1-T	6	3			
(E)	19A-4-80	35'	25'(F)	15'	2-MAS MAS(F)	SV-1-T(F)	SP-1-T	6	3	250 W.	Mission Grove Pkwy. S 7500 (F)	
(F)	1-A	10'				TV-1-T	SP-1-T	8(F)	4			
(G)	24A-4-80 (E)	35'(E)	35'	15'(E)	2-MAS	SV-2-T	SP-1-T	8(F)	4	250 W.(E)	Mission Village Dr. 400 E	
(H)	1-A	10'				TV-2-T	SP-1-T	2	1		FUTURE LOCATION	

EXACT POLE LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER  
 ALL TYPE 1-A STANDARDS SHALL BE SPUN ALUMINUM  
 INSTALL ALL NEW STANDARDS UNLESS OTHERWISE NOTED AND/OR SEE REMARKS.  
 (F) = FUTURE  
 (E) = EXISTING



INSTALL ALL NEW CONDUIT & CONDUCTOR UNLESS OTHERWISE NOTED:  
 (E) = EXISTING  
 (F) = FUTURE  
 ⊗ = INSTALL FOR FUTURE USE  
 ○ = FUTURE INSTALLATION  
 SEE SPECIAL PROVISIONS FOR INTERCONNECT CABLE REQUIREMENTS.



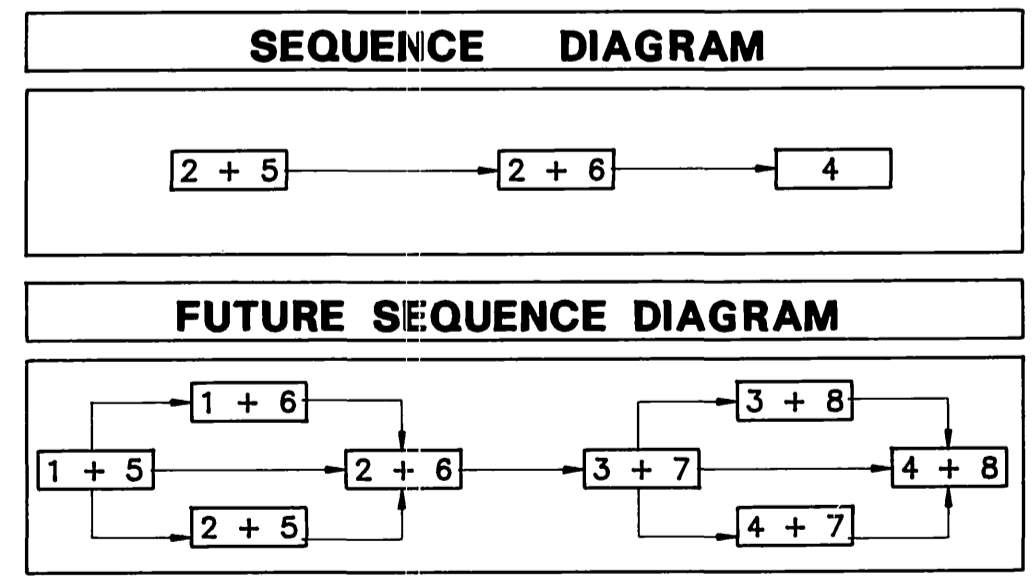
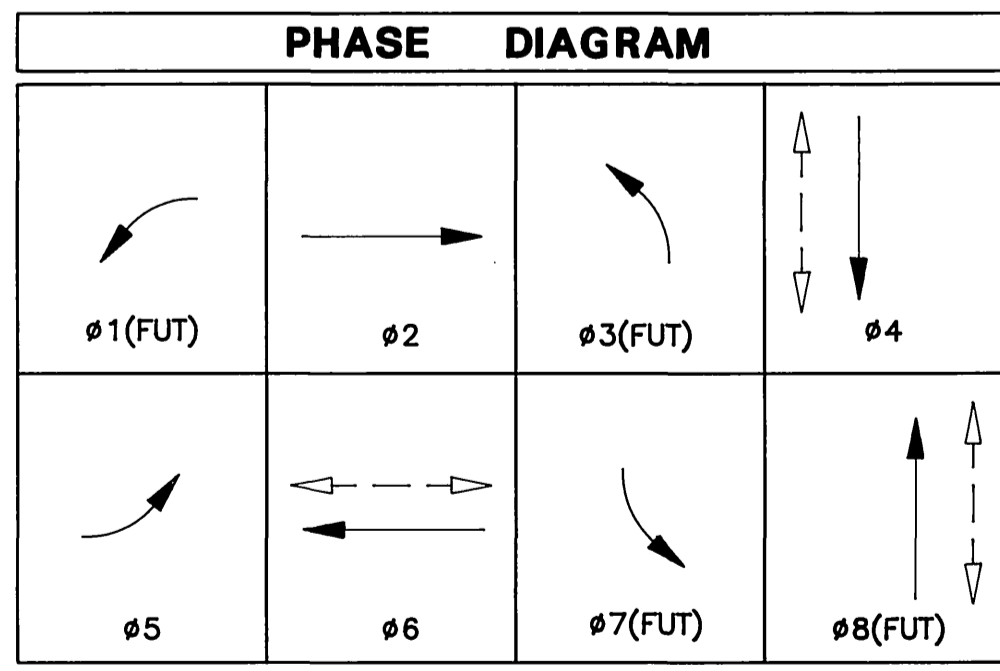
**SPECIAL NOTE:**  
 ALL CONTRACTORS WORKING ON OR AROUND PUBLIC UTILITIES' UNDERGROUND ELECTRICAL FACILITIES MUST HAVE THE PROPERLY QUALIFIED PERSONNEL AND EQUIPMENT TO PERFORM THE SPECIFIED WORK. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE TO ESTABLISH AND MAINTAIN A SAFE WORK ENVIRONMENT INCLUDING BUT NOT LIMITED TO WORK AROUND ENERGIZED HIGH VOLTAGE FACILITIES, GAS TESTING OF CONFINED SPACES, TRAFFIC AND PROTECTION PUBLIC UTILITIES' POLICY IS TO PROVIDE ONE QUALIFIED OBSERVER, AFTER 24 HOURS NOTICE (CALL 714-351-6100), TO STAND BY DURING WORK AND PROVIDE RADIO CONTACT WITH THEIR OPERATIONS CONTROL.

THE UTILITIES' OBSERVER HAS THE AUTHORITY TO STOP THE CONTRACTOR'S WORK IF HE DETERMINES THAT ADEQUATE SAFETY PRECAUTIONS ARE NOT BEING TAKEN. HOWEVER, THE PRESENCE OF THE OBSERVER DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR INSURING SAFE AND APPROPRIATE WORK PRACTICES.

**GENERAL NOTE:**  
 ALL UTILITIES SHOWN CONFORM TO UTILITIES ON STREET IMPROVEMENT PLAN NO. R-3056

**STRIPING AND SIGN LEGEND**  
 1 REMOVE EXIST. "STOP" PAVEMENT MARKING  
 2 REMOVE EXIST. W17, INSTALL NEW W41 (STD)

**CONSTRUCTION NOTES:**  
 1 INSTALL TYPE 90 CONTROLLER IN TYPE 'P' CABINET (SEE SPECIAL PROVISIONS)  
 2 INSTALL TYPE 1-A SERVICE POLE WITH 120V. SIGN, 120V. SIGNAL AND 240V. LUMINAIRE PER CITY STD. DWG. # 667  
 3 INSTALL 2" C - 2#6, 2#8, 2#12



**Underground Service Alert**  
 Call: TOLL FREE  
 1 - 800  
 422 - 4133  
 TWO WORKING DAYS BEFORE YOU DIG

**PRIVATE ENGINEERING NOTE**  
 CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.



PREPARED UNDER THE DIRECTION OF  
 REGISTERED CIVIL ENGINEER NO. 44521  
 EXPIRATION DATE: 3/31/94 DATE: 8/13/91  
 RECOMMENDED BY: DATE: 8/13/91  
 James B. Dobbins RTE: 18

**J.F. Davidson Associates, Inc.**  
 ENGINEERING PLANNING SURVEYING LANDSCAPE ARCHITECTURE  
 MUNICIPAL ENGINEERING DIVISION  
 3426 TENTH STREET  
 P.O. BOX 493  
 RIVERSIDE, CA 92502  
 (714) 683-0209 FAX (714) 686-5807  
 SCALE: 1"=20'-0" BENCH MARK:  
 DATE: JUNE, 1991

DESIGNED BY KTO/CMM DRAIN BY KTO/CMM CHECKED BY  
 MARK REVISIONS APPR. DATE

**CITY OF RIVERSIDE, CALIFORNIA**  
**DEPARTMENT OF PUBLIC WORKS**  
 APPROVED BY: BY DATE: 8/30/91  
 PRINCIPAL ENGINEER: [Signature]  
 INSPECTION: [Signature] 8/21/91  
 TRAFFIC DIVISION: [Signature] 8/17/91  
 CHIEF P.W. ENGINEER: [Signature] 8/17/91  
 PUBLIC UTILITIES: [Signature] 8/22/91

**TRAFFIC SIGNAL PLAN**  
 MISSION GROVE PKWY SOUTH  
 AT  
 MISSION VILLAGE DRIVE  
 FOR: REGIONAL PROPERTIES  
 PROJECT NO. 8911101  
**X-364**  
 SHEET 1 OF 1  
 FILE NO: