

TRAFFIC SIGNAL NOTES

ALL TRAFFIC SIGNAL INSTALLATIONS SHALL CONFORM TO UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE WITH IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, VOLUMES I AND II, THE LATEST ADOPTED VERSION BY THE REGIONAL TRANSPORTATION COMMISSION, WITH ALL SUBSEQUENT REVISIONS.

LINE SIDE OF METER TO BE WIRED WITH THREE #2 AWG. LOAD SIDE SHALL BE WIRED WITH FOUR #4 AWG (3 BLACK, 1 WHITE) AND ONE #4 AWG (GREEN).

LUMINAIRES ON POLES SHALL BE 400 WATT HIGH PRESSURE SODIUM CUTOFF (G.E. M400A) WITH MC-111 DISTRIBUTION. EACH LUMINAIRE SHALL HAVE AN INDIVIDUAL 1000 WATT P.E. CONTROL AND BUILT IN BALLAST (120 V.A.C.). EACH STREET LUMINAIRE SHALL BE FUSED IN THE CABINET USING IN-LINE FUSE HOLDERS. THE NORTHEAST AND SOUTHEAST LUMINAIRES SHALL BE WIRED TO ONE 40 AMP SINGLE POLE CIRCUIT BREAKER, THE SOUTHWEST AND NORTHWEST LUMINAIRES SHALL BE WIRED TO THE SECOND 40 AMP SINGLE POLE CIRCUIT BREAKER.

THE INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL BE WIRED TO THE LUMINAIRE PHOTO CELL FOR CONTROL.

TRAFFIC SIGNAL CABLE SHALL BE 15 OR 25 CONDUCTOR #14 AWG CABLE AND SHALL CONFORM TO IMSA SPEC. NO. 20-1, ALL SIGNAL DETECTION WILL BE BY VIDEO. INTERCONNECT CABLE SHALL BE 25 PAIR OF #22 AWG SHIELD REA SPEC. PE 39.

ALL PEDESTRIAN PUSH BUTTON SIGNS SHALL BE 9"x 12" WITH FULL MOUNTING BRACKETS. ALL PUSH BUTTONS TO BE ADA COMPATIBLE.

THE ROUTING AND TERMINATION OF CONDUITS AND THE PLACING OF POLES AND CABINETS SHALL BE AS INDICATED ON THE PLANS. ALL CHANGES SHALL BE APPROVED BY THE TRAFFIC ENGINEER. MAST ARM R 10-12 SIGNS TO BE ADJACENT (NO GAP) TO THE M-5 SIGNAL HEADS.

PULLBOX LOCATIONS AND CONDUIT ROUTINGS ARE SCHEMATIC ONLY AND MAY BE FIELD ADJUSTED AS NEEDED, WITH PRIOR APPROVAL BY THE TRAFFIC ENGINEER.

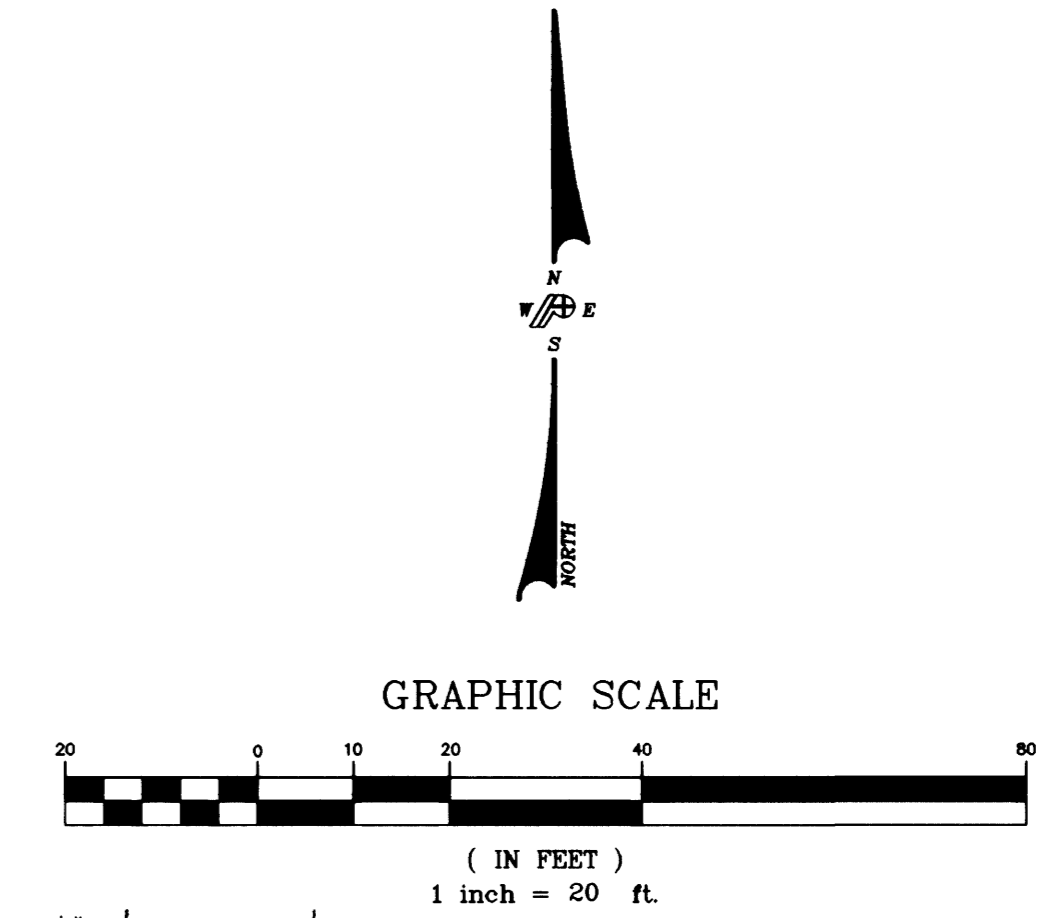
NO.	STATION	TYPE	POLE		SIGNALS (VEH)		SIGNALS (PED)		PUSHBUTTON	FOUNDATION TYPE	REMARKS			
			SIGNAL ARM QUAD.	LENGTH	LUM. ARM QUAD.	LENGTH	QUAD.	TYPE				QUAD.	TYPE	
A	STA 19+36.4 48.5' LT JONES	XX-30	2	45'	2	15'	MA	M-5			EXISTING	1 2 3 4		
							MA	M-2						
							MA	M-2						
							4	B-1T						
B	STA 78+42.9 52' RT GOWAN	XX-30	3	40'	3	15'	MA	M-5			EXISTING	1 2 4		
							MA	M-2						
							MA	M-2						
							1	B-1T						
C	STA 266+80 60' RT LAKE MEAD	XX-30	4	40'	4	15'	MA	M-5			EXISTING	1 2 4		
							MA	M-2						
							MA	M-2						
							2	B-1T						
D	STA 266+67.5 68.5' RT LAKE MEAD	XX-30	1	35'	1	15'	MA	M-5			EXISTING	1 2 3 4		
							MA	M-2						
							MA	M-2						
							3	B-1T						
E	STA 219+55 45' LT ANASAZI	1-B							4	W-3T	2	RIGHT	EXISTING	
											1	LEFT		
F	STA 219+75 47' LT ANASAZI	1-B							1	W-3T	3	RIGHT	EXISTING	
											2	LEFT		
G	STA 264+89 60' LT LAKE MEAD	1-B							2	W-3T	4	RIGHT	EXISTING	
											3	LEFT		
H	STA 264+97 65' LT LAKE MEAD	1-B							3	W-3T	1	RIGHT	EXISTING	
											4	LEFT		

UTILITY NOTE

UTILITY LOCATION SHOWN HEREON ARE APPROXIMATE ONLY, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

Avoid cutting underground utility lines. It's costly.
Call before you Dig.
1-800-227-2600

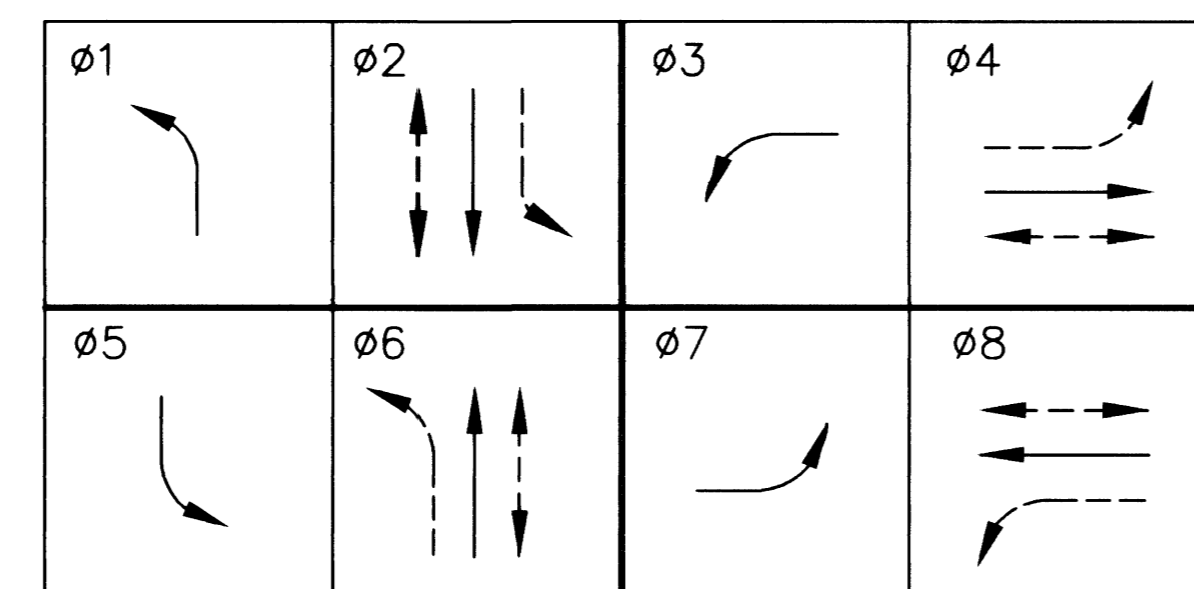
POLE	INTERNALLY ILLUMINATED STREET NAME SIGN	SIGN WIDTH	BLOCK NUMBER SIGN LEGEND
A	GOWAN	8'	6000W
B	JONES	8'	3600N
C	GOWAN	8'	5900W
D	JONES	8'	3500N



CONSTRUCTION NOTES

- INSTALL R10-12 REGULATORY SIGN ON MAST ARM ADJACENT TO M-5 SIGNAL HEAD PER U.S.D. No. 404.418.
- INSTALL STREET NAME SIGN (INTERNALLY ILLUMINATED) PER U.S.D. 404.417 (MODIFIED). REFER TO CITY OF LAS VEGAS, TRAFFIC/ELECTRICAL FIELD OPERATIONS FOR DETAILS. SEE SIGN SCHEDULE THIS SHEET.
- OPTICAL DETECTORS TO BE MOUNTED ON SIGNAL HEADS AS SHOWN FOR PRIORITY EMERGENCY VEHICLE PREEMPTION SYSTEM PER C.C.A.S.S.
- VIDEO SYSTEM CAMERAS TO BE MOUNTED ON LUMINAIRE MAST ARMS PER CITY OF LAS VEGAS SPECIFICATIONS.
- SPOOL 25' OF FUTURE INTERCONNECT WIRE IN CABINET.
- REMOVE EXISTING STREETLIGHT. RETURN SALVAGED EQUIPMENT TO CITY YARD AT 3100 E. BONANZA ROAD. CALL 229-6331 PRIOR TO DELIVERY.

PHASE DIAGRAM (TYP.)



NEMA PHASE DIAGRAM

OVERLAP A = PHASES 1+2+5+6
(USE FOR BOTH N + S PERMISSIVE LEFT TURN DISPLAYS)

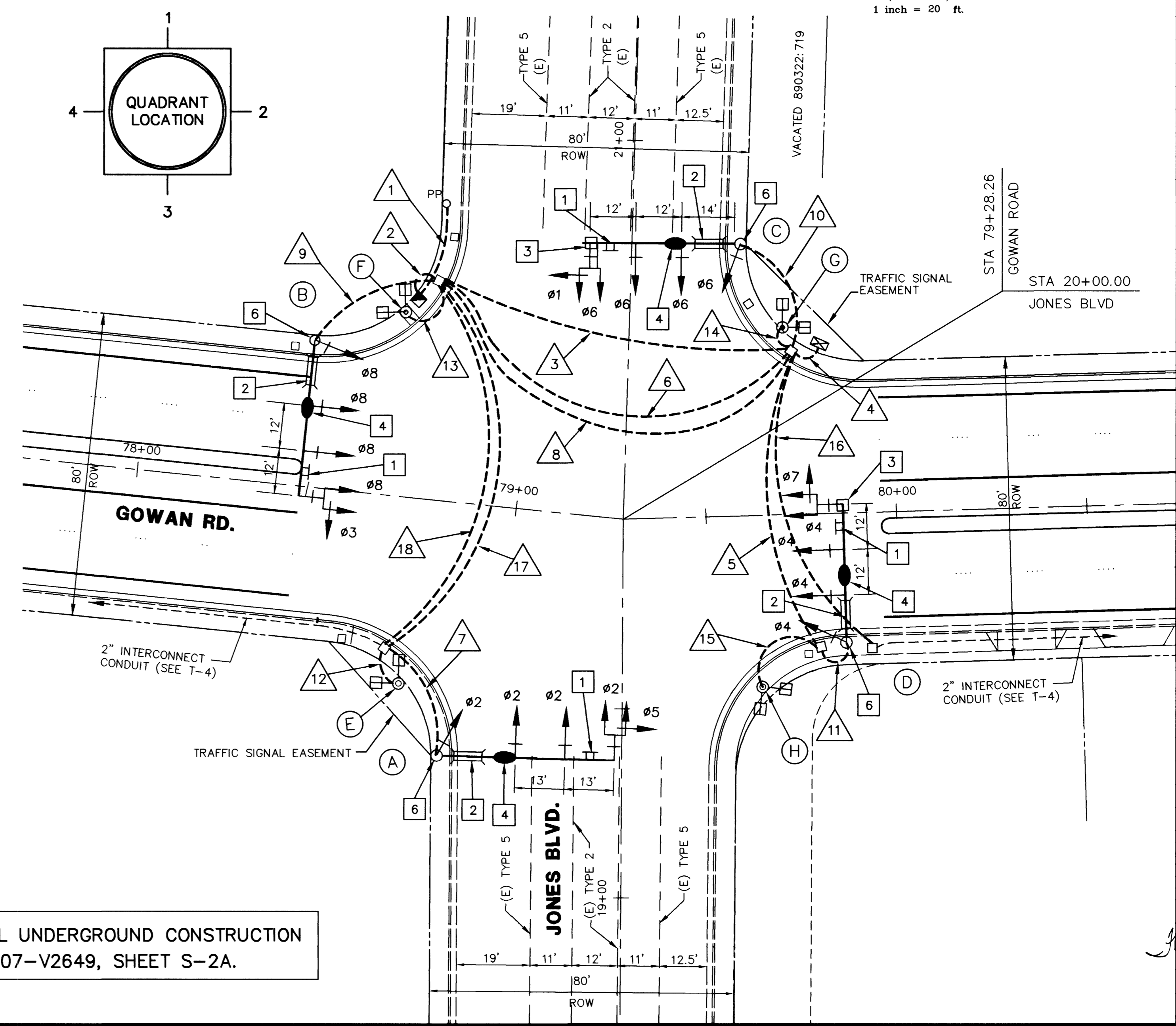
OVERLAP B = PHASES 3+4+7+8
(USE FOR BOTH E + W PERMISSIVE LEFT TURN DISPLAYS)

ALL LEFT TURNS ARE PROTECTED/PERMISSIVE CONFLICT FLASH SHALL BE ALL RED.

NOTE: UNDER THIS CONTRACT, SIGNAL CONDUITS WITH PULL STRING ONLY WILL BE INSTALLED. USE THIS TABLE FOR CONDUIT SIZES ONLY. WIRE CALLOUTS FOR INFORMATION ONLY.

WIRE & CABLE	FROM	TO	VIA CONDUIT																	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
(E) 3-#4/0 AWG THW	(E) N.P.Co. SERVICE PT.	(E) SERVICE PEDESTAL	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
3-#4, 1-#8 GRD.	(E) SERVICE PEDESTAL	CONTROLLER	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
25 C. #14, 2 #10 THW 2-#12, COAXIAL	CONTROLLER	POLE A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
20 C. #14, 2 #10 THW 2-#12, COAXIAL	CONTROLLER	POLE B	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
25 C. #14, 2 #10 THW 2-#12, COAXIAL	CONTROLLER	POLE C	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
25 C. #14, 2 #10 THW 2-#12, COAXIAL	CONTROLLER	POLE D	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
15 C. #14, 1 #8 THW	CONTROLLER	POLE E	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
15 C. #14, 1 #8 THW	CONTROLLER	POLE F	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
15 C. #14, 1 #8 THW	CONTROLLER	POLE G	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
15 C. #14, 1 #8 THW	CONTROLLER	POLE H	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
EMERGENCY VEHICLE PRIORITY CONTROL	CONTROLLER	POLE A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
EMERGENCY VEHICLE PRIORITY CONTROL	CONTROLLER	POLE D	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
INTERCONNECT	CONTROLLER TORREY PINES	CONTROLLER JONES	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CONDUIT SIZE - (EXISTING)			2"	2"	2"	4-3"	3"	2"	2"	2-3"	2"	2"	2"	2"	2"	2"	3"	2"		

A NO. 8 GREEN GROUNDING WIRE SHALL BE RUN FROM THE CONTROLLER CABINET TO EACH SIGNAL POLE BASE.



NOTE: FOR TRAFFIC SIGNAL UNDERGROUND CONSTRUCTION SEE DRAWING NO. 107-V2649, SHEET S-2A.

DATE	
REVISIONS	
SCALE (V)	SCALE (H) 1"=20'
DATE	04/29/99
DESIGN BY	MDS
ENGINEERING DESIGN SECTION	
CITY ENGINEER: DENNIS ANDERSON, P.E. PROJECT MANAGER: MARVIN D. STINE, P.E.	
DEPARTMENT OF PUBLIC WORKS	
TRAFFIC INTERSECTION IMPROVEMENTS FROM US 95 TO DECATUR BOULEVARD	
TRAFFIC INTERSECTION PLAN JONES BLVD. & GOWAN ROAD	
ENGINEER	THESEAN MARRAHAN No. 5068
DRAWING NO.	1
SHEET	1