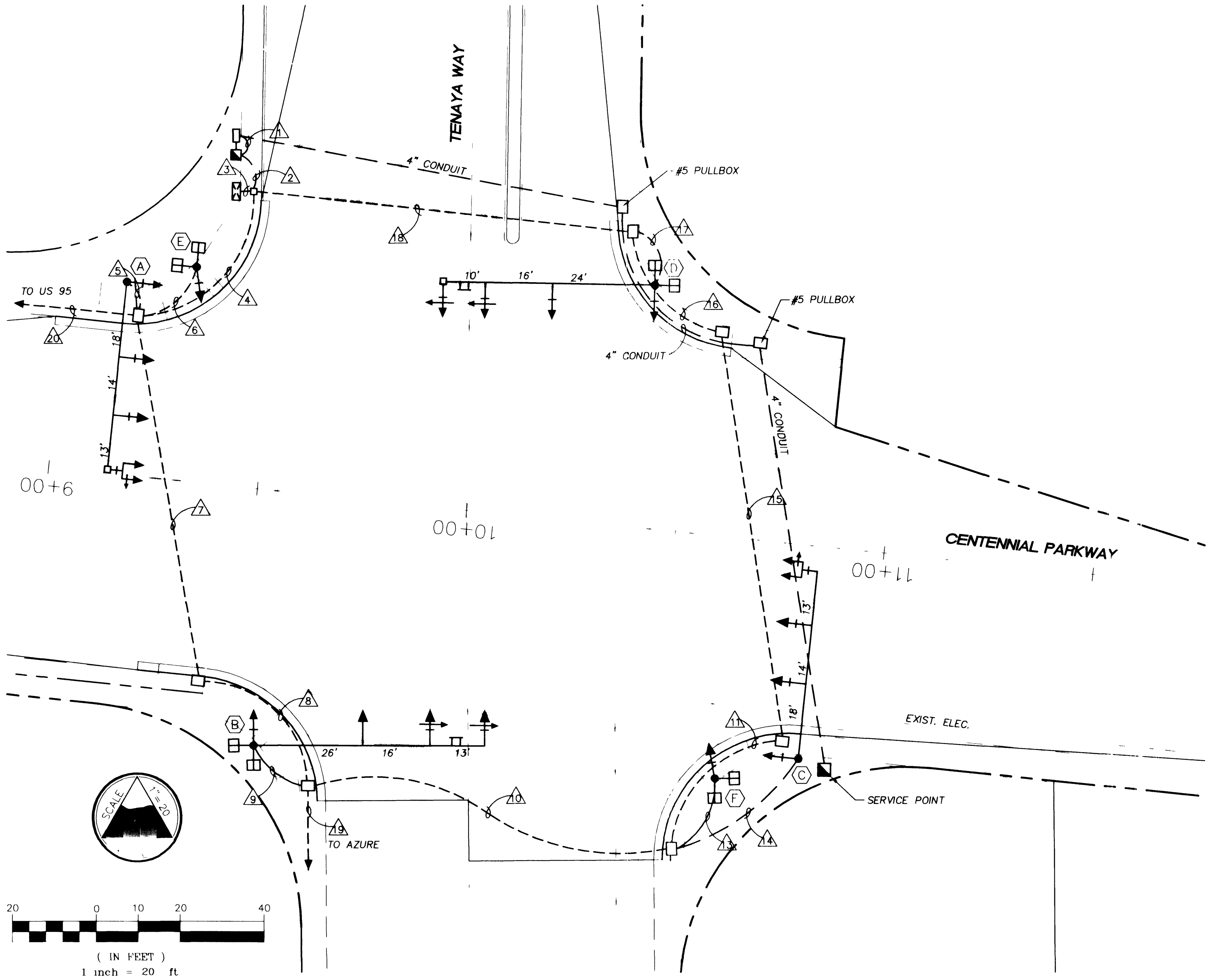
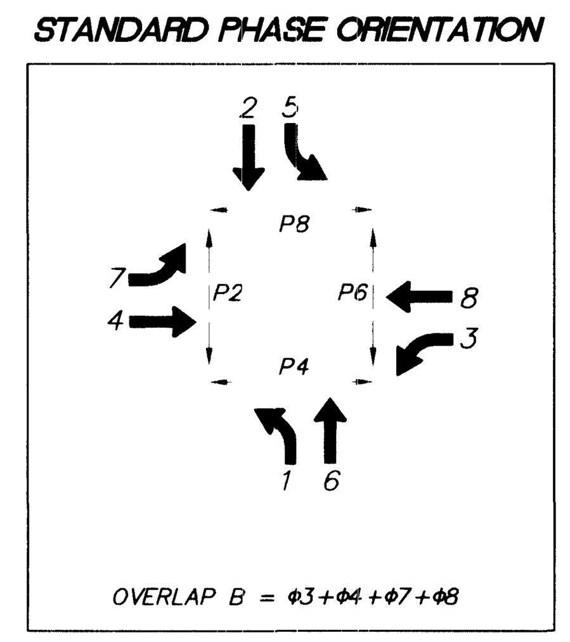
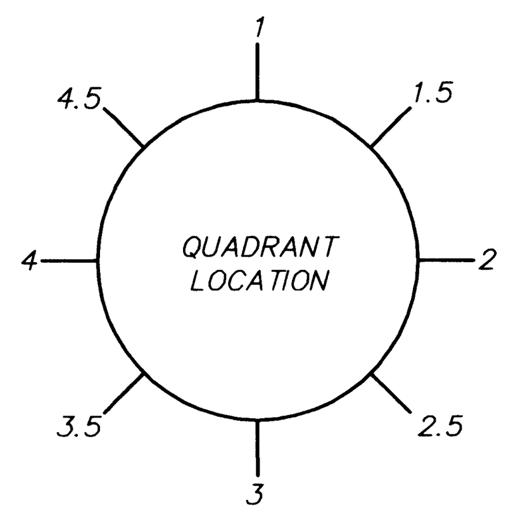


STANDARD PHASE ORIENTATION





POLE NO.	POLE TYPE LENGTH	POLE FOUNDATION	SIGNALS (VEH) QUAD/LOC	SIGNALS (VEH) TYPE	LUMINAIRE QUAD	LUMINAIRE LENGTH	SIGNALS (PED) QUAD	SIGNALS (PED) TYPE	PUSH-BUTTON QUAD	PUSH-BUTTON ARROW	REMARKS
POLE AND EQUIPMENT SCHEDULE											
A	XX 45'	H	1 / MA/18' / MA/32' / EOMA	B-1T / M-2 / M-2 / M-5	3	15'		(SEE POLE E)			POLE STATION: 9+14.18 45.94' LT. / R10-12 SIGN, LOUVER GB + YB
B	XX-A 55'	L	4 / MA/26' / MA/42' / EOMA	B1-T / M-2 / M-2** / M-2	2	15'	1	W-3T	1 / 2	LEFT / RIGHT	POLE STATION: 9+55.29 61.11' RT. / ALL ARROW LENSES, R3-8L (SPL) (SHARED SIGN / ALL ARROW LENSES, R3-8L (SPL) BETWEEN)
C	XX 45'	H	3 / MA/18' / MA/32' / EOMA	B1-T / M-2 / M-2 / M-5	1	15'		(SEE POLE F)			POLE STATION: 10+84.65 51.00' RT. / R10-12 SIGN, LOUVER GB + YB
D	XX-A 50'	L	2 / MA/24' / MA/40' / EOMA	B1-T / M-2 / M-2 / M-2	4	15'	3	W-3T	3 / 4	LEFT / RIGHT	POLE STATION: 10+39.11 58.00' LT. / ALL ARROW LENSES, R3-8L (SPL) (SHARED SIGN / ALL ARROW LENSES, R3-8L (SPL) BETWEEN)
E	1-A	C		A-2T	—	—	4.5	W-3T	2 / 3	LEFT / RIGHT	POLE STATION: 9+30.20 51.07' LT.
F	1-A	C		A-2T	—	—	2.5	W-3T	1 / 4	RIGHT / LEFT	POLE STATION: 10+65.30 57.64' RT.

*LOC=DISTANCE FROM FACE OF MAST ARM MOUNTING PLATE
EOMA=END OF MAST ARM
** BAG HEAD – INTERIM CONDITION

CONDUIT AND CABLE SCHEDULE

CONTINUOUS PULL	FROM	TO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
			CONDUIT RUN #																				
3 #3/0 AWG THW ELECTRICAL SERVICE	POWER SOURCE	ELECT. SVC. PEDESTAL	X																				
4 #4 AWG THW 2WHT/2 BLK 1 #8 AWG THW GREEEN (GND)	ELEC. SVC. PEDESTAL	CONTROLLER CABINET		X																			
25 COND #14, 2 #10, 1 #8 8281 COAX VIDEO EMERG. VEH. PREEMPT CABLE 3 #16 COND. PVC JACKETED	CONTROLLER CABINET	A			X	X	X																
25 COND #14, 2 #10, 1 #8 8281 COAX VIDEO 3 #16 COND. PVC JACKETED	CONTROLLER CABINET	B			X	X			X	X	X												
25 COND #14, 2 #10, 1 #8 8281 COAX VIDEO 3 #16 COND. PVC JACKETED	CONTROLLER CABINET	C			X								X			X	X	X		X			
25 COND #14, 2 #10, 1 #8 8281 COAX VIDEO EMERG. VEH. PREEMPT CABLE 3 #16 COND. PVC JACKETED	CONTROLLER CABINET	D			X														X	X			
15 COND. #14	A	E					X	X															
15 COND. #14	C	F													X	X							
INTERCONNECT (SEE NOTE 16)	CONTROLLER CABINET	TENAYA/AZURE			X	X			X	X											X		
INTERCONNECT (SEE NOTE 16)	CONTROLLER CABINET	CENTENNIAL/US95			X	X																X	
NUMBER & SIZE OF CONDUITS FOR SIGNAL CIRCUITS (NOTE: CONTROLLER CABINET TO NO. 7 PULL BOX=2", 3@3")			3"	3"	3"	3" 2@3"	2@3"	3"	3"	3" 3"	3"	3" 3"	3"	3"	3"	3"	3"	3"	3"	2@3"	3"	3"	
2" CONDUIT FOR STREET LIGHTING CIRCUITS (NOTE: STREET LIGHT CONDUIT MAY BYPASS UPS CABINET)				X	X	X	X		X	X	X	X	X			X	X	X	X	X			

*CONDUIT RUNS WHICH TERMINATE AT A SIGNAL POLE, BUT WHICH PASS THRU A TRAFFIC SIGNAL PULL BOX IMMEDIATELY ADJACENT TO THAT SIGNAL POLE, ARE NOT SEPARATED INTO TWO DISTINCT CONDUIT RUN NUMBERS.

R3-8L (SPL)
30"x36"

DISCLAIMER NOTE

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL 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.

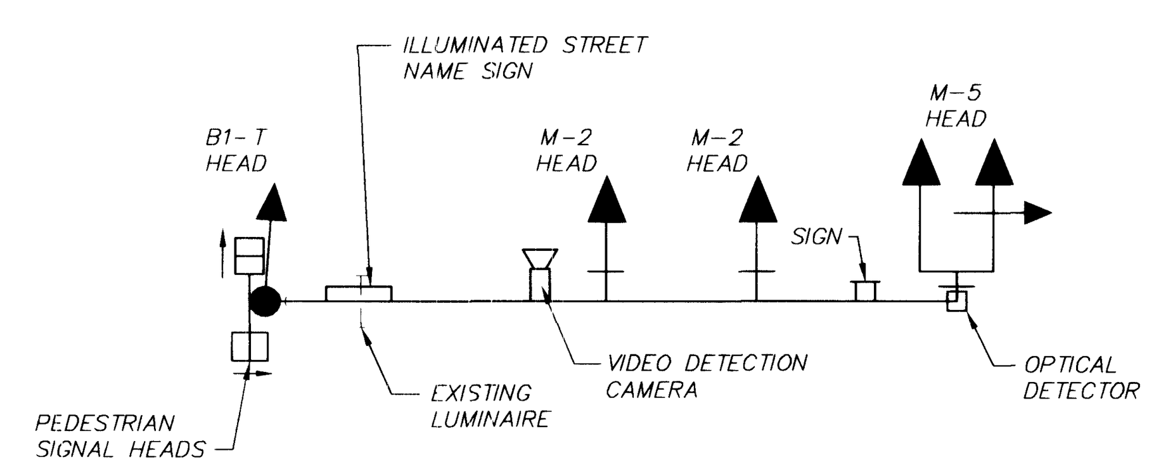
CITY OF LAS VEGAS STANDARD TRAFFIC SIGNAL NOTES

1 THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ALL EXISTING UTILITIES. THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES TO VERIFY IN THE FIELD THE LOCATIONS OF THEIR INSTALLATIONS 72 HOURS PRIOR TO CONSTRUCTION.

CALL-BEFORE-YOU-OVERHEAD 1-702-593-6111
CALL-BEFORE-YOU-DIG 1-800-227-2600

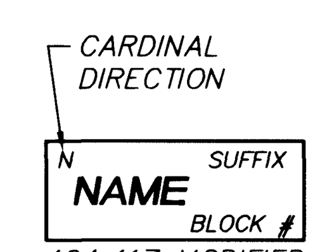
2. ALL TRAFFIC SIGNAL INSTALLATIONS SHALL CONFORM TO THE UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, VOLUMES I AND II, ADOPTED BY THE REGIONAL TRANSPORTATION COMMISSION APRIL 8, 1992 WITH ALL SUBSEQUENT REVISIONS (REVISIONS THRU OCTOBER, 1999)
3. SERVICE SHALL HAVE 1-60 AMP SINGLE POLE BREAKER FOR SIGNAL, AND ONE 40 AMP SINGLE POLE BREAKER FOR STREET LIGHTS SERVICE SHALL BE 200 AMP PADMOUNT
4. LINE SIDE OF METER TO BE WIRED WITH THREE #3/0 AWG THW. LOAD SIDE SHALL BE WIRED WITH FOUR #4 AWG THW (2 BLACK, 2 WHITE) AND ONE #8 AWG THW (GREEN).
5. LUMINAIRES ON ALL SIGNAL 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. FOR LUMINAIRES THERE SHALL BE 2(TWO)-#4 AWG THW CONDUCTOR FROM THE SERVICE TO THE CABINET. IN THE CABINET, THE #4 AWG THW CONDUCTORS SHALL BRANCH OFF INTO #10 AWG THW CONDUCTORS INDIVIDUALLY FUSED WITH 10 AMP FUSES THERE SHALL BE NO SPLICES BETWEEN THE CABINET AND LUMINAIRES FIXTURES.
6. EACH INTERNALLY ILLUMINATED STREET NAME SIGN SHALL BE WIRED TO THE LUMINAIRE'S PHOTO CELL FOR CONTROL WITH #10 AWG THW COPPER STRANDED WIRE (TYPICAL). IN THE EVENT THERE IS NO LUMINAIRE ON THE TRAFFIC SIGNAL POLE, THE 1000 WATT P.E. CONTROL SHALL BE MOUNTED ON THE POLE CAP
7. CHECK CONDUIT AND CABLE SCHEDULE FOR CONDUIT, CABLE, AND WIRE SIZE. VERIFY ALL EXISTING CONDUIT RUNS
8. ALL PULLBOXES SHALL BE IN ACCORDANCE WITH UNIFORM STANDARD DRAWINGS NO. 404.110, NO 404 120, AND NO 404.130
9. TRAFFIC SIGNAL CABLE SHALL BE 15 OR 25 CONDUCTOR #14 AWG SOLID (TYPICAL) CABLE AND SHALL CONFORM TO IMSA SPEC. NO. 20-1. ALL VEHICLE DETECTION WILL BE BY VIDEO IMAGE DETECTION
10. ALL PEDESTRIAN PUSH BUTTON SIGNS SHALL BE 9" X 12" WITH FULL MOUNTING BRACKETS. ALL PUSH BUTTONS TO BE MOUNTED 36" ABOVE SIDEWALK. THE MAXIMUM HORIZONTAL REACH DISTANCE IS TO BE 24". PUSH BUTTONS ARE TO BE IN COMPLIANCE WITH A D.A. PER SUPPLEMENTAL SPECIFICATIONS 623 T02.12. SIDEWALK RAMPS WILL BE ACCORDING TO U S D NO 235 (1-4) DATED 6-13-96
11. 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 ENGINEER
12. MAST ARM R10-12 SIGNS TO BE ADJACENT (NO GAP) TO THE M-5 SIGNAL HEAD.
13 INSTALL 8ϕ CONTROLLER IN TYPE VIII, 'R' CABINET BUILT TO UNIFORM STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS INSTALL CABINET NEAR R O.W. LINE AS SHOWN ON THE PLANS
14. ODETICS VANTAGE PLUS OR, VIDEOTRAC 900 SERIES, AUTO SCOPE 2004 (CLASS A), OR ODETICS ADVANTAGE PLUS VIDEO DETECTION SYSTEM MUST BE INSTALLED. EACH VIDEO CAMERA WILL HAVE POWER (3/16 COND PVC JACKETED) AND 8281 COAXIAL CABLE DIRECTLY FROM THE CABINET. CAMERAS WILL BE MOUNTED PER THE MANUFACTURER'S RECOMMENDATION AND PER CLV TRAFFIC ENGINEER APPROVAL. "BNC" CONNECTORS ARE THE ONLY ACCEPTABLE TERMINATION OF CABLES.
15. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY CONSTRUCTION, TEMPORARY REMOVAL, OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE CITY
16. INTERCONNECT CABLE SHALL BE 25 PAIR #22 AWG SHIELDED SPECIFICATION REA PE 39.
17 THE CONTRACTOR SHALL INSTALL CROSSWALKS, STOP BARS AND SIGNS AS IDENTIFIED ON THE PLANS

37669



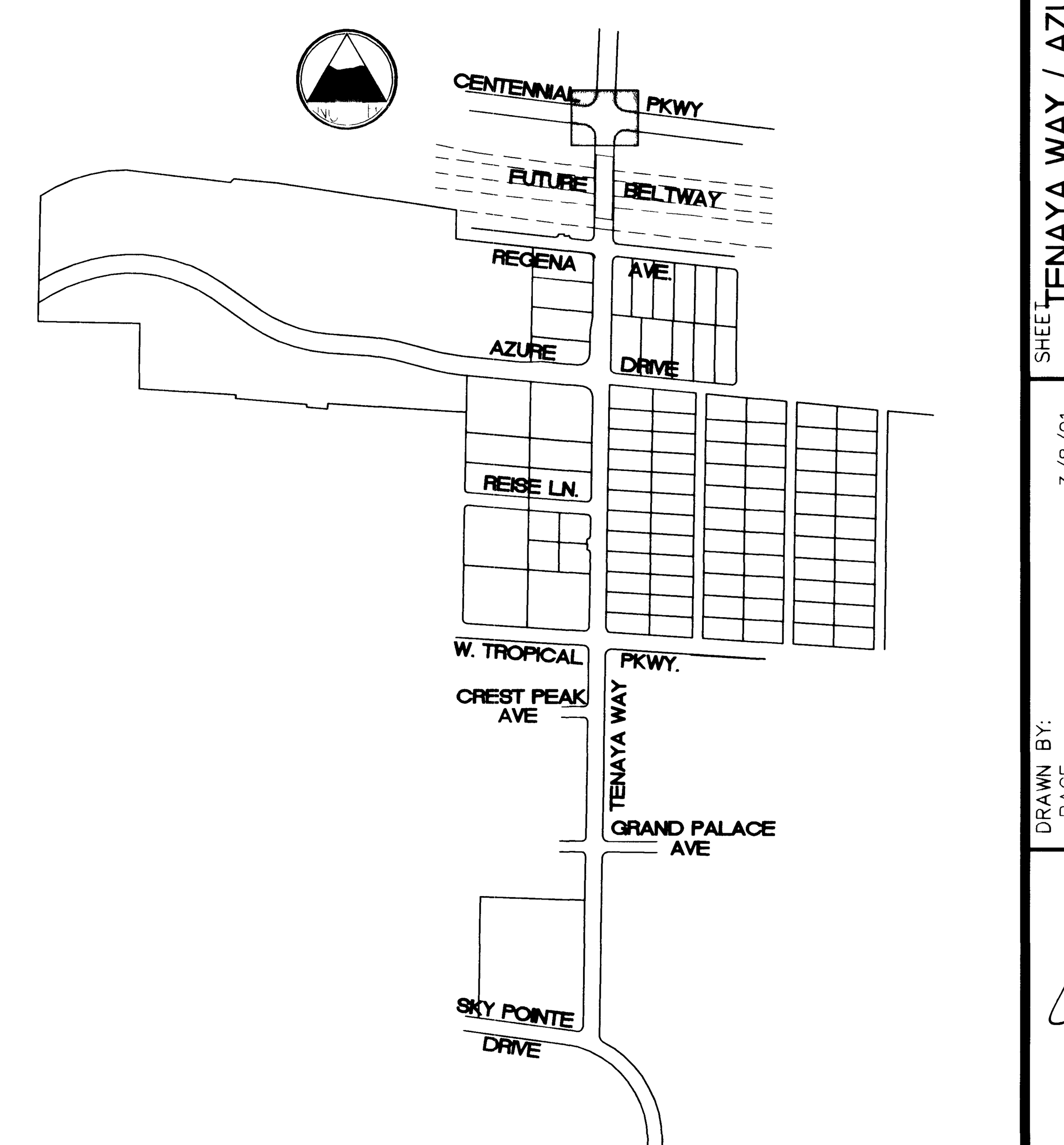
TRAFFIC SIGNAL ASSEMBLY (TYPICAL)

POLE	STREET NAME FRONT/BACK	SUFFIX/CARDINAL	SIGN WIDTH	BLOCK #
INTERNALLY ILLUMINATED STREET SIGN SCHEDULE				
A	TENAYA	WAY / N	8'	6400
B	CENTENNIAL	PKY / W	8'	7200
C	TENAYA	WAY / N	8'	6300
D	CENTENNIAL	PKY / W	8'	7100



404.417 MODIFIED

NOTE:
CONTRACTOR TO OBTAIN APPROVAL OF STREET NAME SIGN FROM CURENT PLANNING 229-6301, PRIOR TO ORDERING SIGNS



KEY MAP

REV	DATE	BY	REVISION

DEPARTMENT OF PUBLIC WORKS ENGINEERING DESIGN SECTION
400 EAST STEWART
LAS VEGAS NV, 89101
(702) 229-5276
CITY ENGINEER: CHARLES KAJKOWSKI, JR., P.E.
PROJECT MANAGER: THERESA M. HANRAHAN, P.E.

PRIMAS AND ASSOCIATES
CONSULTING ENGINEERS
1091 CIMARRON ROAD, SUITE A-3
LAS VEGAS, NV 89145
PHONE (702) 228-8183
FAX (702) 228-8194

SHEET: TENAYA WAY / AZURE DRIVE TRAFFIC SIGNAL PLAN TENAYA WAY/CENTENNIAL PKWAY

TITLE: TENAYA WAY / AZURE DRIVE ROADWAY IMPROVEMENTS

DRAWN BY: PACE 3/8/01
DESIGNED BY: GG 3/8/01
CHECKED BY:
SCALE: 1"=20' HORZ VERT
PROJECT NO: 907.01001

SEAL
GLEN CRAY No. 8 CIVIL

SHEET T5
61 OF 70 SHEETS
DRAWING NO. 107-V3145

BID NO. 02.1730.04 DWG NO. 107-V3145