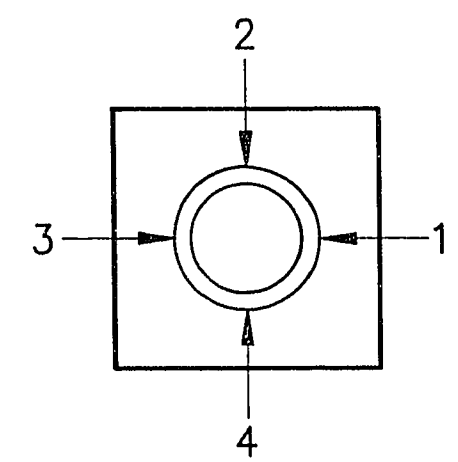


CONDUIT & WIRE SCHEDULE																				
WIRE & CABLE	FROM	TO	VIA CONDUIT																	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
2 #6, 2 #10 1 #4 GRD. THW	METER PEDESTAL	CONTROLLER	•																	
25 COND.	CONTROLLER	POLE A		•	•															
25 COND.	CONTROLLER	POLE B											•	•						
10 COND.	CONTROLLER	POLE C										•		•						
10 COND.	CONTROLLER	POLE D			•			•												
10 COND.	CONTROLLER	POLE E			•			•												
2-10 THW	CONTROLLER	POLE A		•	•															
2-10 THW	CONTROLLER	POLE B											•	•						
3 EACH LOOP CABLES	CONTROLLER	DETECTORS 6A, 6B, 6C											•	•						
2 EACH LOOP CABLES	CONTROLLER	DETECTORS 4A, 4B			•															
3 EACH LOOP CABLES	CONTROLLER	DETECTORS 2A, 2B, 2C			•	•														
2 EACH LOOP CABLES	CONTROLLER	DETECTORS 5A, 5B			•															
OPTICOM CABLE	CONTROLLER	POLE A		•	•															
12 COND. #18	CONTROLLER	RAMP 3, 4 & 5 CONTROLLER																		
CONDUIT SIZE			2"	3"	3"	2"	1 1/2"	2"	2"	1 1/2"	2"	1 1/2"	3"	3"						

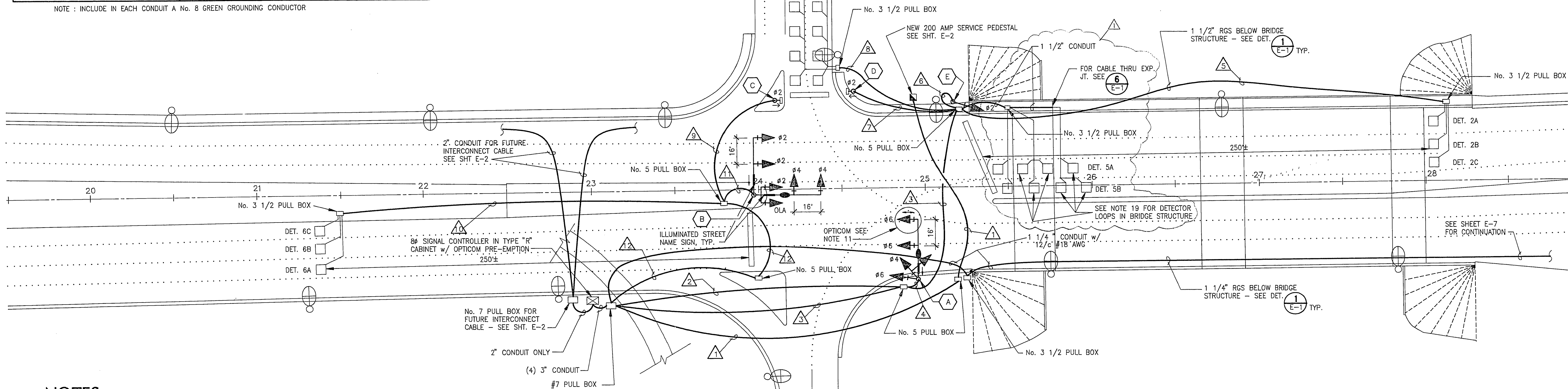
NOTE : INCLUDE IN EACH CONDUIT A No. 8 GREEN GROUNDING CONDUCTOR

POLE SCHEDULE													
POLE	LOCATION STATION	POLE				SIGNALS VEHICLE		SIGNALS PEDESTRIAN		PED. PUSH BUTTON		REMARKS	
		TYPE	SIG. QUAD.	ARM LNG.	LUM. QUAD.	ARM LNG.	TYPE	QUAD.	TYPE	QUAD.	SIGN ARROW		
A	STA. 23+97 3.5' RT.	XX	2	35'	2	15'	(2)M-2 B-2T	MA 4	-	-	-	4# RED BALL Y & G ARROWS	
B	STA. 24+84.62 62.93' RT.	XX	2	35'	-	-	(2)M-2 ①	MA ①	-	-	-		
C	STA. 24+10.00 58.00' LEFT	1B	-	-	-	-	-	W-1T	POLE TOP	4	RT		
D	STA. 24+60.00 58.00' LEFT	1B	-	-	-	-	-	W-1T	POLE TOP	4	LT		
E	STA. 25+20.00 55.00' LEFT	1A	-	-	-	-	A-2T	POLE TOP	-	-	-		

- ① (2) TYPE M-2 SIGNALS ON MAST ARM & ONE(1) TYPE B-1A(S) ON POLE SHAFT, QUAD 4
② ALL TYPE XX POLES SHALL HAVE 19 INCH ANCHOR BOLT CIRCLE AND TYPE "L" FOUNDATION

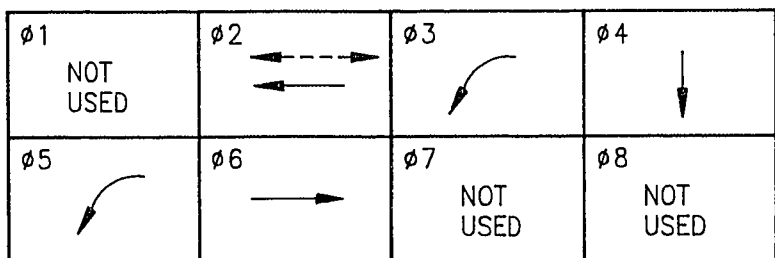


QUADRANT LOCATOR
NOT TO SCALE



NOTES :

- CHECK CONDUIT & WIRE SCHEDULE FOR CONDUIT, CABLE AND WIRE SIZE.
- ALL CONDUCTORS SHALL BE COPPER.
- 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.
- SIGNAL CABLE SHALL BE A 10 & 25 CONDUCTOR #14 AWG CABLE, I.M.S.A. SPEC 20-1.
- LOOP LEAD-IN CABLE SHALL BE ONE TWISTED PAIR OF #12 AWG CABLE, I.M.S.A. SPEC 19-2.
- ALL SIGNAL LENSES SHALL BE 12 INCH GLASS.
- CONTROLLER SHALL BE HOUSED IN A TYPE "R" CABINET WITH TWO (2) EXHAUST FANS AND THERMOSTAT CONTROL.
- CABINET SHALL BE PAINTED WHITE INSIDE AND OUT.
- EACH LOOP DETECTOR LEAD-IN REPRESENTS A SEPARATE AMPLIFIER UNIT REQUIRED.
- ALL NECESSARY AMPLIFIER UNITS, MODULES, LIGHT CONTROL UNITS, SWITCHES, OPTICOM, AREA-WIDE COMPUTER CONTROL, ETC. SHALL BE WIRED IN CABINET TO ACTIVATE THE FOUR PHASE OPERATION AS SHOWN IN DIAGRAM. ALL WIRING FOR FUTURE PHASING SHALL BE INCLUDED.
- INSTALL THE OPTICOM SENSOR ON THE TRAFFIC SIGNAL HEAD AS SHOWN ON THIS DRAWING.
- EACH INTERSECTION LUMINAIRE SHALL BE FUSED IN CABINET USING IN-LINE FUSE HOLDERS.
- ALL PEDESTRIAN PUSH BUTTON SIGNS SHALL BE 9" X 12" WITH FULL MOUNTING BRACKET.
- ALL CABLE & WIRING SHALL BE INSTALLED TERMINAL TO TERMINAL, NO SPLICES ALLOWED.
- POLES "A" & "B" SHALL HAVE INTERNALLY ILLUMINATED STREET NAME SIGNS INSTALLED. SIGNS SHALL BE WIRED TO THE LUMINAIRE PHOTOCELL FOR CONTROL.
- STREET NAME SIGNS ON POLES "A" & "B" SHALL BE DOUBLE FACED w/ ARROW AND READ "SUMMERLIN PKWY" AND SIGN ON POLE "B", QUADRANT 1 SHALL BE SINGLE FACED AND READ "BUFFALO".
- ALL SIGNAL POLES SHALL CONFORM TO C.L.V. STANDARD SPEC. 404.402 & 404.406 SHEETS 1 & 2.
- LOOP DETECTORS TO BE LOCATED IN THE FIELD BY C.L.V.
- ALL DETECTOR LOOPS IN THE CONCRETE BRIDGE STRUCTURE SHALL BE CABLE-IN-DUCT.
- INTERSECTION LIGHTING LUMINAIRES SHALL BE 400 W HPS WITH MC111 DISTRIBUTION, INDIVIDUAL PHOTOCELL CONTROL AND BUILT-IN BALLAST (120 VAC) G.E. M400A2 CUTOFF TYPE.
- ALL WORK SHALL BE DONE IN CONFORMANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENTS", THE "TRAFFIC SIGNAL STANDARD DRAWINGS" AND "THE UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION".



PHASE DIAGRAM

SCALE : NONE

SIGNAL PLAN @ RAMPS 1 and 2

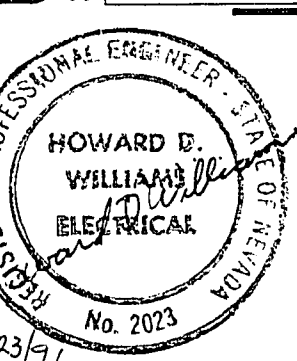
SCALE : 1" = 30'



89072E106 PLOTTED BY: KHO DATE: 03/20/92 TIME: 14:55 SCALE FACTOR: 1=30

GB&L CONSULTING ENGINEERS

3650 S. EASTERN AVE. • SUITE 220 • LAS VEGAS, NEVADA 89109



SIGNAL PLAN - RAMPS 1 and 2
BUFFALO INTERCHANGE
WITH SUMMERLIN PARKWAY
AND BUFFALO DRIVE ROADWAY BETWEEN WESTCLIFF AND WASHINGTON
CITY OF LAS VEGAS, NEVADA

