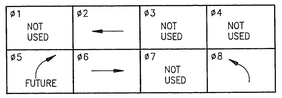
CONDUIT & WIRE SCHEDULE

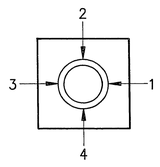
WIRE & CABLE	FROM	TO	VIA CONDUIT 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
2 #2, 2 #6 1 #4 GRD. THW	METER PEDESTAL	CONTROLLER	⊘																			
20 COND.	CONTROLLER	POLE A				●				●												
20 COND.	CONTROLLER	POLE B		●	●																	
10 COND.	CONTROLLER	POLE C				●							●									
2–10 THW	CONTROLLER	POLE A				●				●												
2–10 THW	CONTROLLER	POLE B		●	●																	
3 EACH LOOP CABLES	CONTROLLER	DETECTORS 6A, 6B, 6C			●		●	●														
3 EACH LOOP CABLES	CONTROLLER	DETECTORS 2A, 2B, 2C									●	●										
2 EACH LOOP CABLES	CONTROLLER	DETECTORS 7A, 7B							●													
2 OPTICOM CABLES	CONTROLLER	POLE B		●	●																	
CONDUIT SIZE			2"	2"	3"	3"	1½"	2"	1¼"	2"	1½"	2"	2"									

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



PHASE DIAGRAM

SCALE : NONE



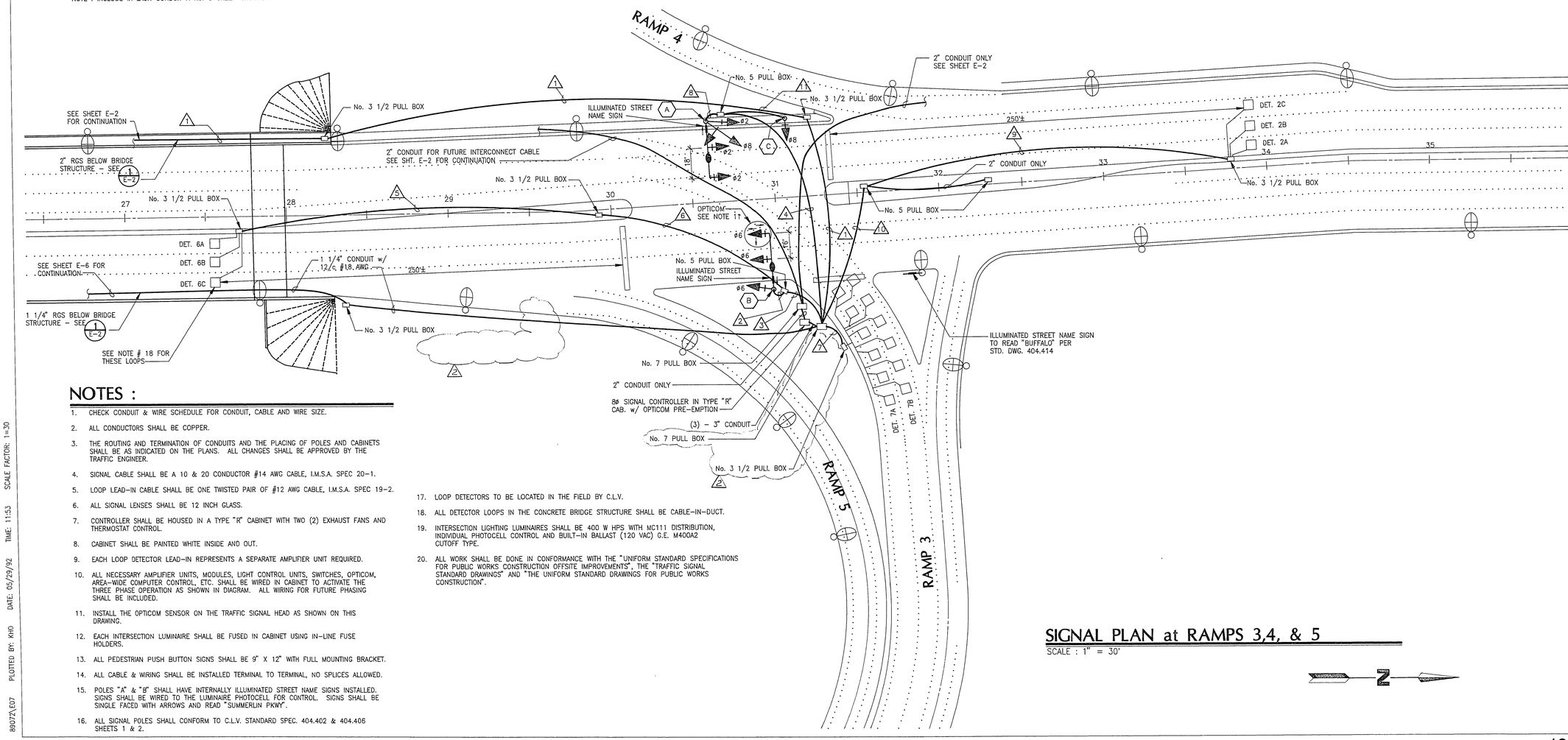
QUADRANT LOCATOR

SCALE : NONE

POLE SCHEDULE

POLE	LOCATION STATION	TYPE	POLE SIG. ARM QUAD.	POLE SIG. ARM LNG.	POLE LUM. ARM QUAD.	POLE LUM. ARM LNG.	SIGNALS VEHICLE TYPE	SIGNALS VEHICLE QUAD.	SIGNALS PEDESTRIAN TYPE	SIGNALS PEDESTRIAN QUAD.	PED. PUSH BUTTON QUAD.	PED. PUSH BUTTON SIGN ARROW	REMARKS
A	STA. 30+62.83 59.12' LEFT	XX	4	35'	4	15'	(2)M–2 B–2T	MA 2	–	–	–	–	ø8 GREEN & YELOW ARROWS, RED BALL
B	STA. 30+79.82 57.72' RIGHT	XX	2	35'	2	15'	(2)M–2 B–1T	MA 4	–	–	–	–	
C	STA. 31+10.83 51.84' LEFT	1–A	–	–	–	–	1 A–2T	POLE TOP	–	–	–	–	

(1) TYPE XX POLES SHALL HAVE 19 INCH ANCHOR BOLT CIRCLE & TYPE "L" FOUNDATIONS



NOTES :

1. CHECK CONDUIT & WIRE SCHEDULE FOR CONDUIT, CABLE AND WIRE SIZE.
2. ALL CONDUCTORS SHALL BE COPPER.
3. 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.
4. SIGNAL CABLE SHALL BE A 10 & 20 CONDUCTOR #14 AWG CABLE, I.M.S.A. SPEC 20–1.
5. LOOP LEAD–IN CABLE SHALL BE ONE TWISTED PAIR OF #12 AWG CABLE, I.M.S.A. SPEC 19–2.
6. ALL SIGNAL LENSES SHALL BE 12 INCH GLASS.
7. CONTROLLER SHALL BE HOUSED IN A TYPE "R" CABINET WITH TWO (2) EXHAUST FANS AND THERMOSTAT CONTROL.
8. CABINET SHALL BE PAINTED WHITE INSIDE AND OUT.
9. EACH LOOP DETECTOR LEAD–IN REPRESENTS A SEPARATE AMPLIFIER UNIT REQUIRED.
10. ALL NECESSARY AMPLIFIER UNITS, MODULES, LIGHT CONTROL UNITS, SWITCHES, OPTICOM, AREA–WIDE COMPUTER CONTROL, ETC. SHALL BE WIRED IN CABINET TO ACTIVATE THE THREE PHASE OPERATION AS SHOWN IN DIAGRAM. ALL WIRING FOR FUTURE PHASING SHALL BE INCLUDED.
11. INSTALL THE OPTICOM SENSOR ON THE TRAFFIC SIGNAL HEAD AS SHOWN ON THIS DRAWING.
12. EACH INTERSECTION LUMINAIRE SHALL BE FUSED IN CABINET USING IN–LINE FUSE HOLDERS.
13. ALL PEDESTRIAN PUSH BUTTON SIGNS SHALL BE 9" X 12" WITH FULL MOUNTING BRACKET.
14. ALL CABLE & WIRING SHALL BE INSTALLED TERMINAL TO TERMINAL, NO SPLICES ALLOWED.
15. POLES "A" & "B" SHALL HAVE INTERNALLY ILLUMINATED STREET NAME SIGNS INSTALLED. SIGNS SHALL BE WIRED TO THE LUMINAIRE PHOTOCELL FOR CONTROL. SIGNS SHALL BE SINGLE FACED WITH ARROWS AND READ "SUMMERLIN PKWY".
16. ALL SIGNAL POLES SHALL CONFORM TO C.L.V. STANDARD SPEC. 404.402 & 404.406 SHEETS 1 & 2.
17. LOOP DETECTORS TO BE LOCATED IN THE FIELD BY C.L.V.
18. ALL DETECTOR LOOPS IN THE CONCRETE BRIDGE STRUCTURE SHALL BE CABLE–IN–DUCT.
19. 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.
20. 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".

SIGNAL PLAN at RAMPS 3,4, & 5

SCALE : 1" = 30'

GB&L CONSULTING ENGINEERS
3650 S. EASTERN AVE. • SUITE 220 • LAS VEGAS, NEVADA 89109
CONSULTANT

JOB NO.	89072		
DESIGNED BY	HW	BY	DATE	DESCRIPTION
DRAWN BY	LWA	2	1-9-92	RELEASED FOR BIDDING
CHECKED BY	HW	1	6-3-92	CHANGE ORDER #1
DATE	4/23/91			

SIGNAL PLAN – RAMPS 3,4,5
BUFFALO INTERCHANGE
with SUMMERLIN PARKWAY and BUFFALO DRIVE/ROADWAY BETWEEN WESTCLIFF AND WASHINGTON
CITY of LAS VEGAS, NEVADA

SHEET NUMBER E-7 OF 8

PLOTTED BY: KHO DATE: 05/29/92 TIME: 11:53 SCALE FACTOR: 1=30
89072\E07

107–V1753