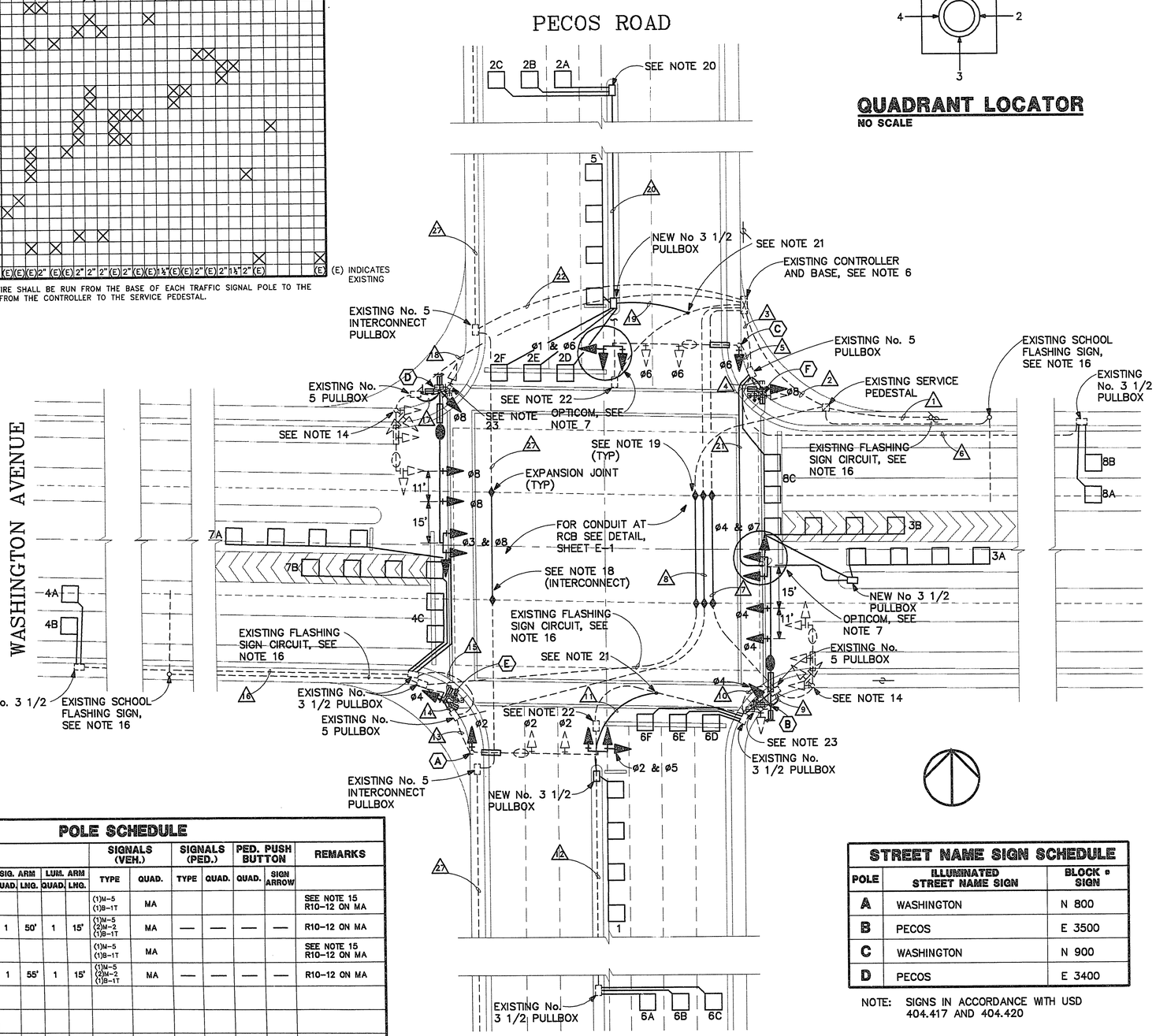
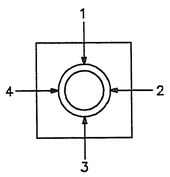
CONDUIT & WIRE SCHEDULE

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	21	22	23	24	25	26	27
SIG. CABLE (#14 AWG)																													
25 COND	CTRLR	POLE A								X	X				X														
		POLE B																											
		POLE C		X		X																							
		POLE D																			X	X							
15 COND		POLE E								X						X													
		POLE F		X	X																								
2#10 THW		LUM @ A								X					X														
		LUM @ B																											
		LUM @ C		X		X																							
		LUM @ D																			X	X							
DET. LOOP CABLES (#12 AWG)																													
3 PR		2A,2B,2C																			X	X							
2 PR		2D-2F, 5								X																			
2 PR		4A, 4B													X														
3 PR		4C,7A,7B								X																			
3 PR		6A,6B,6C																			X	X							
1 PR		6D,6E,6F								X																			
1 PR		1		X																									
2 PR		8A, 8B								X																			
1 PR		8C																											
2 PR		3A, 3B		X		X																							
	SERVICE	CONTROLLER																											
	POWER	SERVICE																											
OPTICOM	CTRLR	POLE B								X	X																		
OPTICOM	CTRLR	POLE C		X		X																							
INTERCONNECT CABLE & CONDUIT																													
CONDUIT SIZE (INCHES)			(E)	(E)	(E)	2"	(E)	(E)	2"	2"	2"	(E)	2"	(E)	(E)	1½"	(E)	(E)	2"	(E)	2"	1½"	2"	(E)					(E)

(E) INDICATES EXISTING

NOTE: A NO. 8 GREEN GROUND WIRE SHALL BE RUN FROM THE BASE OF EACH TRAFFIC SIGNAL POLE TO THE CONTROLLER CABINET AND FROM THE CONTROLLER TO THE SERVICE PEDESTAL.





QUADRANT LOCATOR
NO SCALE

SHEET NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ALL EXISTING UTILITIES.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXACT LOCATION AND DEPTH OF ALL UTILITIES FOR THIS PROJECT. THE UTILITY COMPANIES SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION. CALL BEFORE YOU DIG .... 1-800-227-2600.
3. ALL SIGNAL CABLE SHALL CONFORM WITH I.M.S.A. NO. 19-1 OR NO. 20-1. ALL LOOP CABLE SHALL CONFORM TO I.M.S.A. NO. 19-2 OR NO. 20-2.
4. ALL CABLE AND WIRING SHALL BE INSTALLED TERMINAL TO TERMINAL, NO SPLICES ALLOWED.
5. THE PLACING OF NEW AND RELOCATED POLES SHALL BE AS INDICATED ON THE PLANS. ALL CHANGES SHALL BE APPROVED BY THE TRAFFIC ENGINEER.
6. THE CONTROLLER AND CABINET ARE EXISTING TO BE REMOVED COMPLETE LEAVING BASE IN PLACE. PROVIDE NEW CONTROLLER COMPLETE WITH ALL NECESSARY AMPLIFIER UNITS, MODULES, LIGHT CONTROL UNITS, SWITCHES, OPTICOM, FLASHERS, AREA WIDE COMPUTER CONTROL, ETC. WIRED IN CABINET TO ACTIVATE THE PHASE OPERATION AS SHOWN. MOUNT IN TYPE "R" CABINET WITH EXHAUST FAN AND THERMOSTAT CONTROL. PAINT CABINET WHITE, INSIDE AND OUT.
7. THE OPTICOM SENSOR AT POLES B AND C ARE EXISTING TO BE RELOCATED TO THE NEW TRAFFIC SIGNAL HEADS AS INDICATED. RUN OPTICOM DETECTOR CABLE, 3M MODEL 138, FROM THE CONTROLLER TO POLES B AND C AS SHOWN IN THE CONDUIT AND WIRE SCHEDULE. RECONNECT FOR PRE-EMPTION OPERATION.
8. ALL NEW CONDUITS AND PULLBOXES SHALL BE LOCATED WITHIN THE EXISTING RIGHT-OF-WAY.
9. EXISTING CONDUIT RUNS AS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC ONLY. CONTRACTOR SHALL VERIFY EXACT LOCATIONS BEFORE BEGINNING WORK. NEW MULTIPLE CONDUIT RUNS NOT TERMINATING IN THE SAME PULLBOX SHALL PASS UNDER AND CONTINUE TO THE NEXT TERMINATION POINT. ALL MULTIPLE CONDUIT RUNS SHALL BE PLACED IN THE SAME TRENCH WHENEVER POSSIBLE. MAINTAIN 12" HORIZONTAL CLEARANCE BETWEEN INTERCONNECT CONDUIT AND SIGNAL/STREET LIGHTING CONDUITS.
10. A TEMPORARY TRAFFIC SIGNAL SYSTEM SHALL BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION. TEMPORARY TRAFFIC SIGNAL SHALL UTILIZE SPAN WIRES. REFER TO SPECIAL PROVISIONS SECTION 623.
11. ALL REMOVED STREET LIGHTING AND TRAFFIC SIGNAL EQUIPMENT NOT REUSED SHALL BE RETURNED TO THE ELECTRICAL SHOP, CITY YARDS, 3100 EAST BONANZA ROAD.
12. ALL PLACEMENTS OF NEW AND RELOCATED POLES SHALL PROVIDE 36" MINIMUM CLEAR SIDEWALK WIDTH.
13. LOOP DETECTORS SHALL BE LOCATED IN THE FIELD BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER.
14. REMOVE EXISTING TYPE XX TRAFFIC SIGNAL POLE COMPLETE. CHIP BASE DOWN 9" BELOW SIDEWALK BASE AND BURN OFF ANCHOR BOLTS, REINFORCING, ETC. PATCH TO MATCH EXISTING CONDITIONS.
15. PROVIDE NEW SIGNAL ASSEMBLIES, AS INDICATED.
16. EXISTING SCHOOL FLASHING SIGNS SHALL BE MAINTAINED IN OPERATION AS IS COMPLETE WITH CIRCUITING TO SOURCE.
17. INTERCEPT EXISTING SIGNAL SYSTEM CONDUIT AND EXTEND AS INDICATED TO NEW BASE.
18. CONTRACTOR SHALL MAINTAIN INTERCONNECT TO THE SOUTH DURING CONSTRUCTION. PROVIDE TEMPORARY OVERHEAD/UNDERGROUND FACILITIES AS REQUIRED. PROVIDE INTERCONNECT CABLE AFTER INTERSECTION RECONSTRUCTION TO FIRST CONTROLLER SOUTH. RETERMINATE AT BOTH ENDS AS REQUIRED.
19. INTERCEPT EXISTING SIGNAL SYSTEM CONDUITS AT LIMIT OF EXCAVATION AND EXTEND TO RCB EXPANSION JOINT. SIGNAL SYSTEM CONDUITS SHALL BE COMPLETE AFTER INTERSECTION RECONSTRUCTION FOR PULLING IN OF NEW CABLES AS INDICATED.
20. PROVIDE NEW No 3 1/2 PULLBOX TO REPLACE THAT REMOVED DURING CONSTRUCTION. REFER TO CONDUIT AND WIRE SCHEDULE.
21. INTERCEPT EXISTING SIGNAL SYSTEM CONDUIT AND EXTEND AS INDICATED TO NEW PULLBOX.
22. REMOVE EXISTING No 3 1/2 PULLBOX COMPLETE. ABANDON CONDUITS IN PLACE IF NO INTERFERENCE WITH NEW CONSTRUCTION OCCURS.
23. REMOVE EXISTING TYPE 1-A SIGNAL POLE COMPLETE. CHIP BASE DOWN 9" BELOW SIDEWALK BASE AND BURN OFF ANCHOR BOLTS, REINFORCING, ETC. PATCH TO MATCH EXISTING CONDITIONS.
24. SIGNAL PHASE DESIGNATIONS AS SHOWN ON THESE DRAWINGS ARE FOR REFERENCE ONLY. ACTUAL PHASE DESIGNATIONS SHALL BE DETERMINED IN THE FIELD BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER.

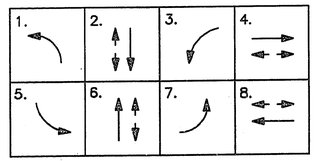
POLE SCHEDULE

POLE	LOCATION-STA.	TYPE	SIG. ARM QUAD.	SIG. ARM LNG.	LUM. ARM QUAD.	LUM. ARM LNG.	SIGNALS (VEH.) TYPE	SIGNALS (VEH.) QUAD.	SIGNALS (PED.) TYPE	SIGNALS (PED.) QUAD.	PED. PUSH BUTTON QUAD.	PED. PUSH BUTTON SIGN ARROW	REMARKS
A	EXISTING TO REMAIN						(1)M-5 (1)B-1T	MA					SEE NOTE 15 R10-12 ON MA
B	STA. 81+95.15 55.96' LEFT	XXA	1	50'	1	15'	(1)M-5 (2)M-2 (1)B-1T	MA	—	—	—	—	R10-12 ON MA
C	EXISTING TO REMAIN						(1)M-5 (1)B-1T	MA					SEE NOTE 15 R10-12 ON MA
D	STA. 83+22.50 56.09 RIGHT	XXA	1	55'	1	15'	(1)M-5 (2)M-2 (1)B-1T	MA	—	—	—	—	R10-12 ON MA
E	RELOCATE TO STA. 83+16 56.8' LEFT												
F	RELOCATE TO STA. 82+01 56.0' RIGHT												

STREET NAME SIGN SCHEDULE

POLE	ILLUMINATED STREET NAME SIGN	BLOCK # SIGN
A	WASHINGTON	N 800
B	PECOS	E 3500
C	WASHINGTON	N 900
D	PECOS	E 3400

NOTE: SIGNS IN ACCORDANCE WITH USD 404.417 AND 404.420



ALL RED WHEN FLASHING

PHASE DIAGRAM
NO SCALE

RECORD DRAWING

These Record Drawings have been prepared based on information provided by others. The Engineer has not verified the accuracy of such information and shall not be responsible for any errors or omissions which may be incorporated herein as a result.

HARRIS ENGINEERS, INC.
MECHANICAL/ELECTRICAL CONSULTANTS
2785 East Desert Inn Road, Suite 260
Las Vegas, Nevada 89121
702/796-0220

AUGUST 1993 VIRGIL STREET TO LENA STREET

REVISIONS

No.	Date	CHKD	APPD

REGISTERED PROFESSIONAL ENGINEER — JAMES A. HARRIS — No. 6719 — STATE OF NEVADA — EXPIRES 6-30-94

DESIGNED: JAT
DRAWN: DEF
CHECKED: PTH
JOB NO. 393-2-91
SCALE: HORIZ. 1" = 20'
VERT. ---

1055 EAST TROPICANA
SUITE 800
LAS VEGAS, NEVADA 89119
(702)798-1007
CONSULTING ENGINEERS

CITY OF LAS VEGAS
WASHINGTON AVENUE CONVEYANCE SYSTEM

PROJECT:
DESCRIPTION:
PECOS ROAD
TRAFFIC SIGNAL

92053.00

SHEET
E-2
23 OF 23

731-54B