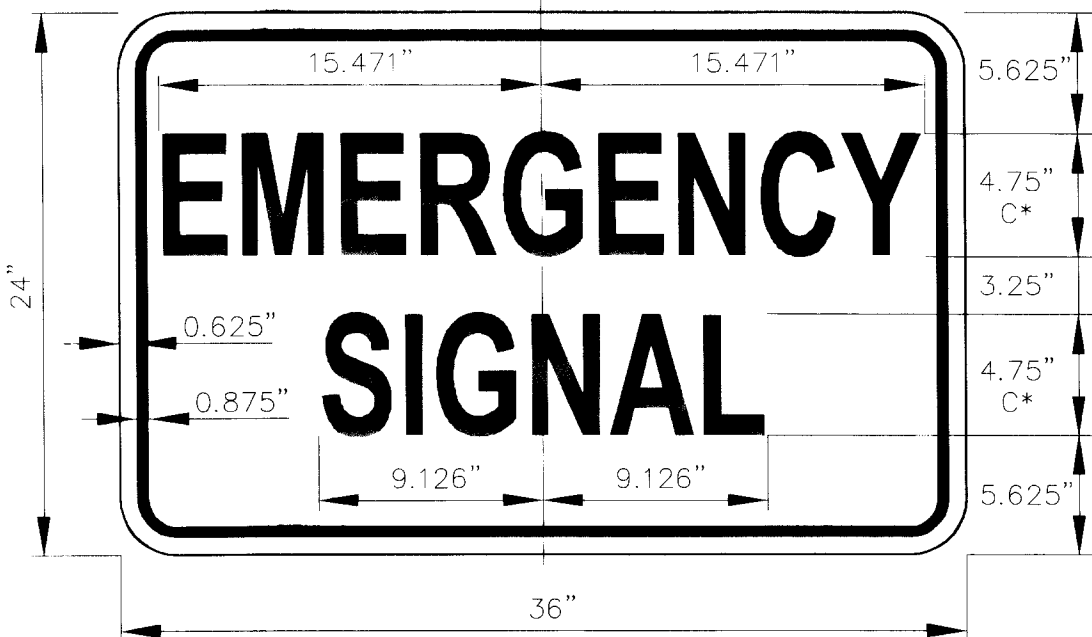
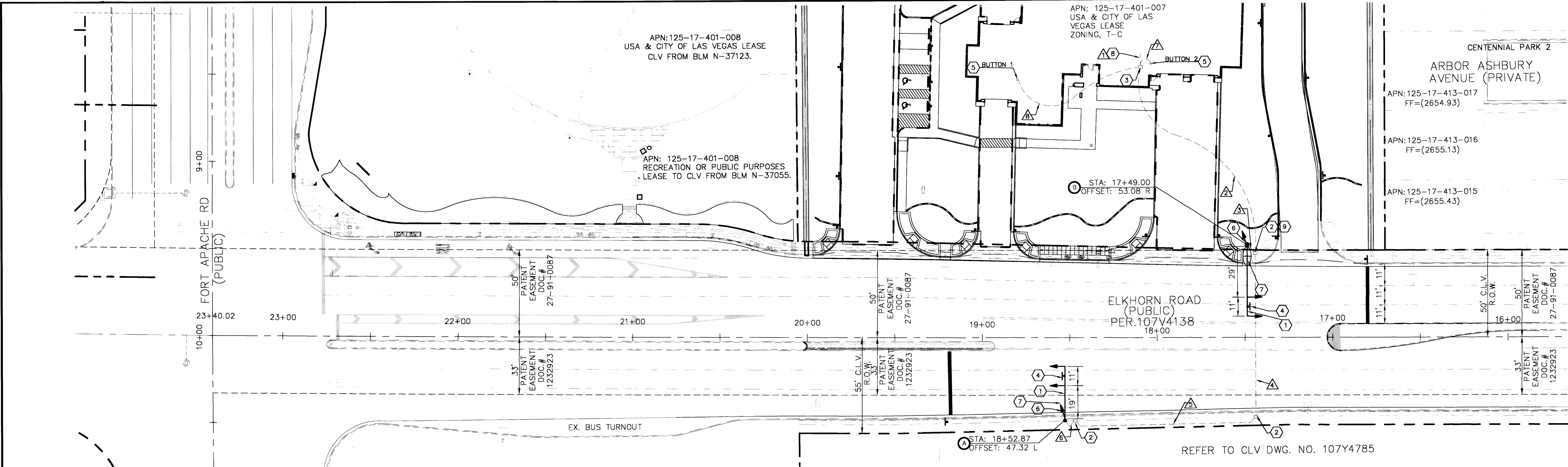


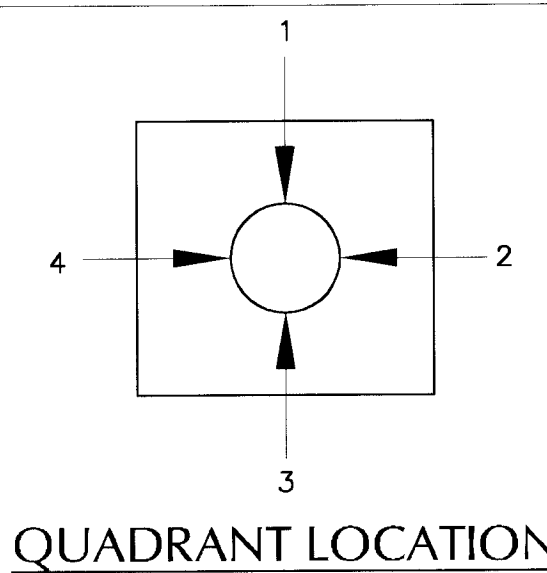


SEQUENCE OF OPERATION (AT POLE A & B)

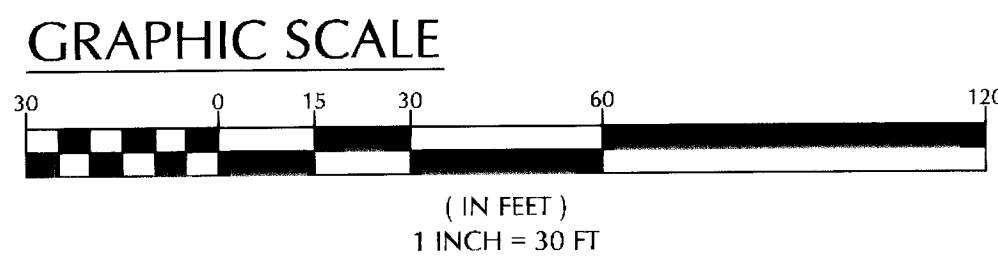
WHEN THE SYSTEM IS UNDER NORMAL OPERATION, THE MAST ARM SIGNAL HEAD ASSEMBLIES WILL CONTINUALLY FLASH YELLOW, AND THE CUSTOM SIGNALS WILL CONTINUALLY FLASH RED. ACTIVATION FROM ANY OF THE CONTROL STATIONS WILL START A TIMED SEQUENCE THAT WILL CHANGE THE SYSTEM FROM FLASHING YELLOW TO SOLID YELLOW TO SOLID RED FOR THE MAST ARM SIGNAL HEAD ASSEMBLIES. ONE SECOND AFTER THE MAST ARM SIGNAL HEAD ASSEMBLIES HAVE CHANGED TO SOLID RED, THE CUSTOM SIGNALS WILL BE ILLUMINATED. THE SYSTEM WILL REMAIN IN THE EMERGENCY PHASE (SOLID RED FOR CROSS TRAFFIC AND GREEN FOR FIRE DEPARTMENT STAFF) FOR A PREDETERMINED TIME BEFORE REVERTING BACK TO NORMAL OPERATION. THE DURATION OF THE EMERGENCY PHASE IS TO BE ADJUSTABLE, AND WILL BE SET BY THE CLV FIRE DEPARTMENT IN COOPERATION WITH THE CLV TRAFFIC ENGINEERING STAFF. WHEN WIRING SEQUENCE OF OPERATION, CONTRACTOR SHALL CONTACT TIM ARMSTRONG AS NOTED IN SIGNAL NOTE #13 PRIOR TO COMMENCING WORK TO BE DONE BY THE CITY OF LAS VEGAS.

**CITY OF LAS VEGAS
TRAFFIC SIGNAL NOTES**

- 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
CALL-BEFORE-YOU-DIG
CITY OF LAS VEGAS TRAFFIC
ENGINEERING & FIELD OPERATIONS
NEVADA POWER
1-702-227-2929
1-800-227-2600
229-6531
367-5307
- ALL CABLE AND WIRING SHALL BE INSTALLED FROM TERMINAL TO TERMINAL WITHOUT SPLICES.
- TRAFFIC SIGNAL CABLE SHALL BE 10 CONDUCTOR, EXCEPT AS NOTED. #14 AWG CABLE AND SHALL CONFORM TO IMSA SPEC. NO. 20-1.
- ALL PULL BOXES SHALL HAVE NON-CONDUCTIVE COVERS MARKED "TRAFFIC SIGNALS" FOR TRAFFIC SIGNAL WIRING.
- 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.
- THE FINAL LOCATION OF POLES SHALL BE DETERMINED AT THE TIME OF CONSTRUCTION BY THE TRAFFIC ENGINEER.
- EACH NEW MAST ARM SHALL BE SET PERPENDICULAR TO THE INTERSECTION APPROACH THAT FACES THE TRAFFIC SIGNALS ON THE MAST ARM.
- LUMINAIRE ARM SHALL PROVIDE FOR 35' MOUNTING HEIGHT.
- ALL TRAFFIC SIGNAL HEADS SHALL HAVE 12" DIAMETER LENSES, AND LOUVERED BACKPLATES. ALL SIGNAL BULBS SHALL BE LED'S PER CITY OF LAS VEGAS LATEST STANDARDS.
- THE SIGNAL HEAD TENON PLACEMENT SHALL BE VERIFIED BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER PRIOR TO MANUFACTURE OF THE MAST ARMS.
- EMERGENCY SIGNAL POLE LIGHTING SHALL CONSIST OF ONE (1) 220V-250 WATT HPS LUMINAIRE PER POLE.
- CONTRACTOR TO OBTAIN AND INSTALL FIRE STATION SIGNAL CONTROL CIRCUIT AND CABINET PROVIDED FROM CITY OF LAS VEGAS TRAFFIC SIGNAL SHOP. CITY OF LAS VEGAS TRAFFIC SIGNAL SHOP TO DETERMINE FINAL LOCATION OF CONTROLLER ENCLOSURE. ENCLOSURE TO BE INSTALLED PRIOR TO INSTALLATION OF CONDUIT AND CONDUCTORS. CITY OF LAS VEGAS WILL MAKE FINAL TERMINATIONS OF CONDUCTORS WITHIN CONTROL CABINET. CONTACT TIM ARMSTRONG AT THE CITY OF LAS VEGAS TRAFFIC SIGNAL SHOP, 229-6075, PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ALL WORK TO BE COMPLETED IN ACCORDANCE WITH UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA (USDCCA) LATEST EDITION.



EXACT LOCATION OF ALL FLASHER EQUIPMENT (I.E. SIGNAL POLES) ARE TO BE DETERMINED IN THE FIELD BY THE CITY OF LAS VEGAS (CLV) INSPECTOR, REPRESENTATIVES OF CLV TRAFFIC ENGINEERING AND CLV FIRE DEPARTMENT.



BASIS OF BEARING

SOUTH 89°48'12" EAST, BEING THE BEARING OF THE CENTERLINE OF SEVERANCE LANE AS SHOWN IN THAT CERTAIN RECORD OF SURVEY IN FILE 114, PAGE 57 OF SURVEYS, OFFICIAL RECORDS, CLARK COUNTY, NEVADA.

BENCHMARK

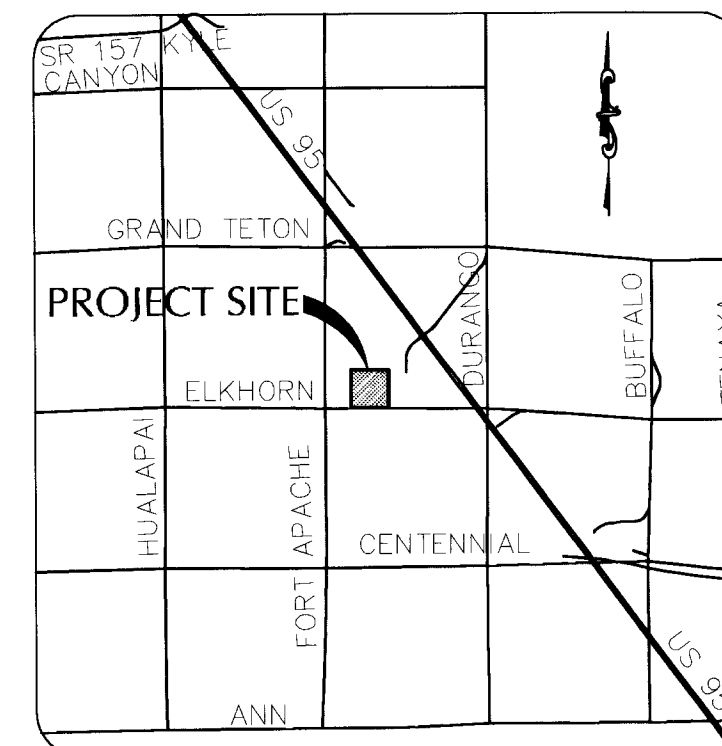
DESC.	NAVD 88 DATUM	NAVD 88 DATUM
FOUND RIVET & PLATE, LOCATED IN THE TOP OF CURB AT THE NORTH WEST CORNER OF EL CAPITAN AND RACEL, MARKED BLV90 856 WITH A PUBLISHED ELEVATION OF 2600.16 PER CITY OF LAS VEGAS BENCHMARKS 6-02.	2600.16 (FEET)	792.5309 (METERS)

CONSTRUCTION NOTES

- CONSTRUCT EMERGENCY FLASHER PER SCHEDULES AND DETAILS, THIS SHEET.
- INSTALL NO. 5 PULL BOX PER CCAUSD NO. 326 (SEE SHEET C-15).
- INSTALL FIRE STATION SIGNAL CONTROL CABINET(SEE TRAFFIC SIGNAL NOTE 13).
- MOUNT SIGN PER CCAUSD NO. 404.418 (SEE SHEET C-13).
- SEE ELECTRICAL PLANS, FOR EXACT LOCATION OF TRAFFIC CONTROL BUTTON.
- MOUNT CUSTOM SIGNAL HEAD B-1T PER CCAUSD NO. 404.1024 (SEE SHEET C-13).
- INSTALL 1 1/2" CONDUIT FROM NO. 3 1/2 STREETLIGHT PULLBOX TO #5 TRAFFIC SIGNAL PULLBOX AND PULL WIRE (2-#4, 1-#8 THW).
- 2" CONDUIT TO ELEC. PANEL B SEE SHEET E3.1 FOR CONTINUATION
- PROVIDE (2) #10 THW WIRES FROM INTERCEPTION TO TOP OF POLE FOR LUMINAIRE AND (1) #8 GROUND (GREEN) FROM GROUND POINT TO BOTTOM OF POLE GROUND.

NOTE:

ALL CONDUIT RUNS ARE SHOWN SCHEMATICALLY FOR CLARITY. CONTRACTOR SHALL DETERMINE THE ACTUAL LOCATION OF ALL CONDUITS AND PULLBOXES IN THE FIELD WHILE MAINTAINING CITY OF LAS VEGAS STANDARDS.

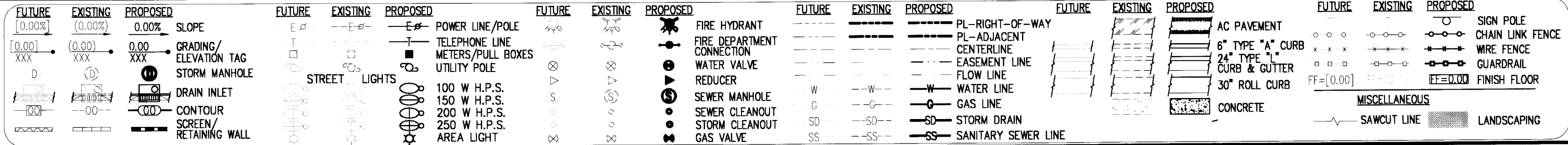


CONDUIT AND WIRE SCHEDULE									
WIRE	FROM	TO	2"	3"	3"	3"	3"	3"	3/4"
(2) #10 THW & (1) #8 GRND (GREEN)	ELEC. PANEL B	FIRE STATION CONTROL CABINET	X						
10 CONDUCTOR #14 AWG (1) #8 GRND (GREEN)	FIRE STATION CONTROL CABINET	PULLBOX		X					
10 CONDUCTOR #14 AWG (1) #8 GRND (GREEN)	PULLBOX	POLE B			X				
10 CONDUCTOR #14 AWG (1) #8 GRND (GREEN)	PULLBOX	PULLBOX				X			
10 CONDUCTOR #14 AWG (1) #8 GRND (GREEN)	PULLBOX	PULLBOX					X		
10 CONDUCTOR #14 AWG (1) #8 GRND (GREEN)	PULLBOX	PULLBOX						X	
(2) #14 (1) #12 GRND	FIRE STATION CONTROL CABINET	CONTROL BUTTON 2							X
(2) #14 (1) #12 GRND	FIRE STATION CONTROL CABINET	CONTROL BUTTON 1							X
CONDUIT SIZE			2"	3"	3"	3"	3"	3/4"	3/4"

POLE SCHEDULE											
POLE	LOCATION	FOUNDATION	POLE TYPE	SIGNAL ARM		LUMINAIRE		VEHICLE SIGNAL HEAD ASSEMBLIES		PEDESTRIAN SIGNAL ASSEMBLIES/PUSH BUTTONS	REMARKS
				QUAD	LENGTH	QUAD	ARM	TYPE	TYPE		
A	ELKHORN ROAD 18+52.87 47.32 L	TYPE "H"	XX-30'	1	30'	1	15'	(2) M-2 (1) CUSTOM B-1T	M-ARM 3 3	N/A	REMOVE EXISTING STREETLIGHT. REMOVE AND REPLACE EXISTING FOUNDATION 24" MIN., CUT ANCHOR BOLTS. RETURN STREETLIGHT POLE/S TO CITY OF LAS VEGAS YARDS. CALL 24 HOURS BEFORE RETURNING AT 229-6331. MOUNT M-2 SIGNAL HEAD ASSEMBLIES ON MAST ARM PER USDCCA 404.1023 (SEE SHEET C-14). INSTALL 250W LUMINAIRE, SEE NOTE 12. B-1T TO BE BALL INDICATIONS, NOT ARROWS (AIM HEAD TOWARD RESCUE BAY)
B	ELKHORN ROAD 17+49.00 53.08 R	TYPE "H"	XX-30'	3	40'	3	15'	(2) M-2 (1) CUSTOM B-1T	M-ARM 3 3	N/A	REMOVE EXISTING STREETLIGHT. REMOVE AND REPLACE EXISTING FOUNDATION 24" MIN., CUT ANCHOR BOLTS. RETURN STREETLIGHT POLE/S TO CITY OF LAS VEGAS YARDS. CALL 24 HOURS BEFORE RETURNING AT 229-6331. MOUNT M-2 SIGNAL HEAD ASSEMBLIES ON MAST ARM PER USDCCA 404.1023 (SEE SHEET C-14). INSTALL #3 1/2 PULLBOX OVER EXISTING CONDUIT AND WIRE. INSTALL 250W LUMINAIRE, SEE NOTE 12. B-1T TO BE BALL INDICATIONS, NOT ARROWS (AIM HEAD TOWARD ENGINE BAY)



MARTIN & MARTIN ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS, HOWEVER, THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR TO FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN WHAT IS SHOWN ON THESE DRAWINGS AND WHAT EXISTS IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE ARCHITECT OR ENGINEER IMMEDIATELY.



PROJ NO: 2193.00
DESIGN: JL
PLOT DATE: 10/12/07
SCALE: AS SHOWN

PROF. ENGINEER
THOMAS D. MILLER
EXP. 12-31-07
CIVIL
NO. 151776

STAMP DATE: 10/12/07

CITY OF LAS VEGAS
FIRE STATION NO. 48
EMERGENCY SIGNAL FLASHER

SHEET
C-8
8 OF 26 SHTS
CLV DWG. NO.
24423
630-104