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UNDERGROUND SERVICE (USA)

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BENCHMARK

CITY OF LAS VEGAS VERTICAL CONTROL #2LV01
25S4 RIVET AND PLATE IN THE TOP OF CURB AT THE NORTHEAST CORNER OF BONANZA ROAD AND MOJAVE ROAD.
ELEVATION 1812.97 FEET NAVD88
552.594 METERS NAVD88

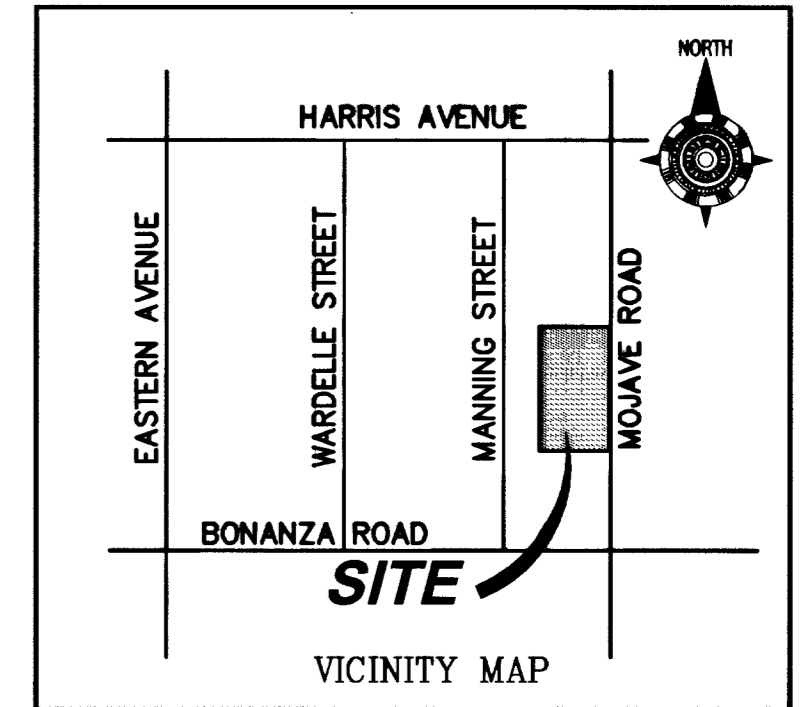
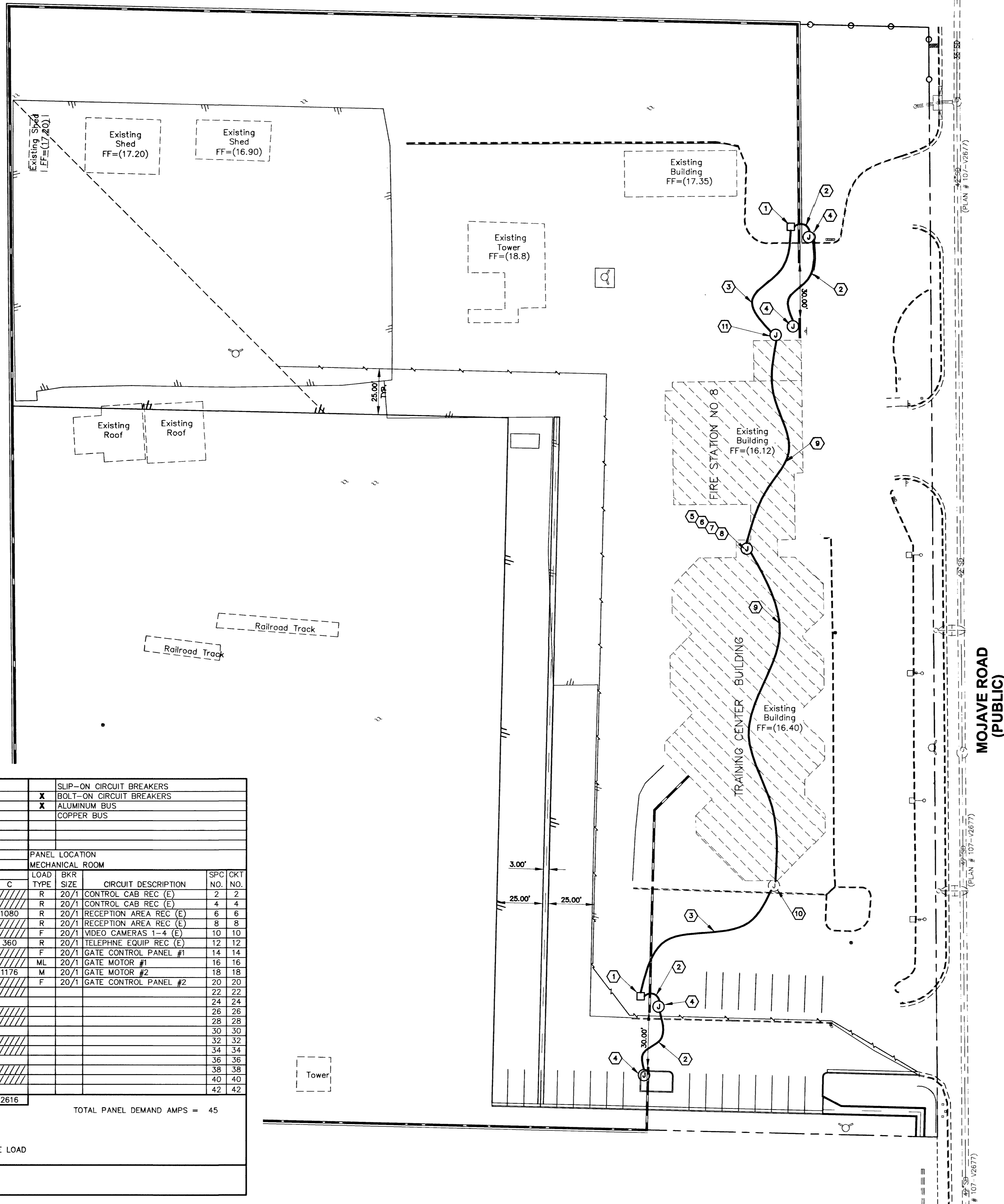
BASIS OF BEARING

NORTH 00°30'53" WEST, BEING THE CENTERLINE OF MOJAVE ROAD AS SHOWN ON A RECORD OF SURVEY RECORDED IN FILE 82, PAGE 99 OF SURVEYS, IN THE COUNTY RECORDER'S OFFICE, CLARK COUNTY, NEVADA.

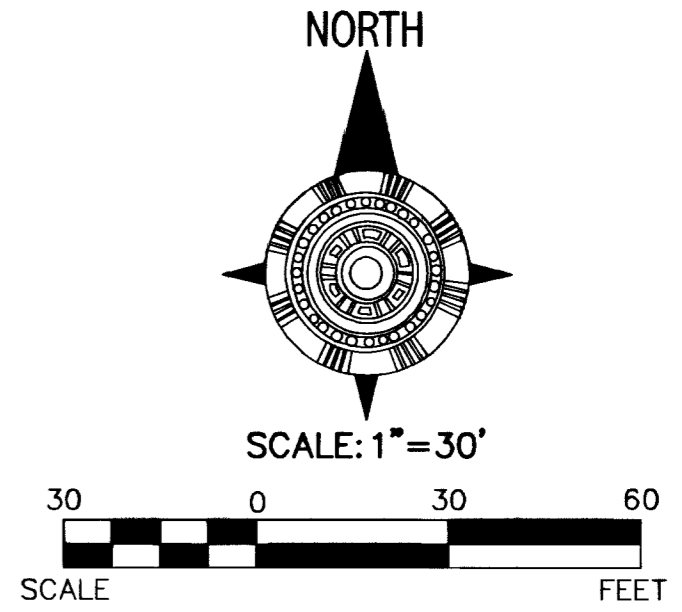
PANEL D		SERVICE ENTRANCE		SLIP-ON CIRCUIT BREAKERS					
VOLTS: 208Y/120		METER		<input checked="" type="checkbox"/>					
PANEL AMP RATING: 100		NEMA 1		<input checked="" type="checkbox"/>					
MAIN BREAKER AMP RATING: MLO		SURFACE MOUNT		<input checked="" type="checkbox"/>					
MINIMUM KAIC: 22		FLUSH MOUNT		<input type="checkbox"/>					
PHASE: 3		HINGE DOOR		<input type="checkbox"/>					
WIRE: 41		DOOR IN DOOR		<input type="checkbox"/>					
NEUTRAL: FULL SIZE		LATCH/LOCK DOOR		<input checked="" type="checkbox"/>					
GROUND: CU-SOLID				<input type="checkbox"/>					
PANEL LOCATION		MECHANICAL ROOM		PANEL LOCATION					
NO.	NO.	CIRCUIT DESCRIPTION	BKR SIZE	LOAD TYPE	LOAD SIZE	CIRCUIT DESCRIPTION	SPC NO.	CKT NO.	
1	1	NIGHT LIGHTS (E)	20/1	L	1000	CONTROL CAB REC (E)	2	2	
3	3	NIGHT LIGHTS (E)	20/1	L	1000	CONTROL CAB REC (E)	4	4	
5	5	DRILL TOWER LIGHTS (E)	20/1	L	1000	RECEPTION AREA REC (E)	6	6	
7	7	DRILL TOWER LIGHTS (E)	20/1	L	1000	RECEPTION AREA REC (E)	8	8	
9	9	FIRE CONTROL RM REC (E)	20/1	R	1080	VIDEO CAMERAS 1-4 (E)	10	10	
11	11	FIRE CONTROL RM REC (E)	20/1	R	360	TELEPHONE EQUIP REC (E)	12	12	
13	13	911 REC (E)	20/1	R	1080	GATE CONTROL PANEL #1	14	14	
15	15					GATE MOTOR #1	16	16	
17	17					GATE MOTOR #2	18	18	
19	19					GATE CONTROL PANEL #2	20	20	
21	21						22	22	
23	23						24	24	
25	25						26	26	
27	27						28	28	
29	29						30	30	
31	31						32	32	
33	33						34	34	
35	35						36	36	
37	37						38	38	
39	39						40	40	
41	41						42	42	
TOTAL LOAD PER PHASE		3080		2080		2080			
TOTAL PANEL LOAD (W/O DEMAND)		5600		4516		4696		81% BALANCE	
								TOTAL PANEL DEMAND AMPS = 45	

ABBREVIATIONS:
F=FIXED EQUIPMENT, L=LIGHTING LOAD, M=MOTOR LOAD, ML=LARGEST MOTOR LOAD, R=RECEPTACLE LOAD

SPECIAL PROVISIONS:
1. EXISTING CIRCUITS ARE MARKED BY AN (E) AT END OF CIRCUIT DESCRIPTION
2. ELECTRICAL CONTRACTOR TO VERIFY ADDED AMPERAGE WILL NOT EXCEED PANEL AMP RATING.



APN. 139-25-801-004



COMFORT ENGINEERING
2550 SOUTH RAINBOW, SUITE E-28
LAS VEGAS, NEVADA 89102
TEL. (702) 367-0892 - FAX 367-1076

ELECTRICAL NOTES

- ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC, 24" MINIMUM BURIAL DEPTH. ABOVE GRADE CONDUIT SHALL BE RIGID GALVANIZED STEEL AND CONDUIT RISERS SHALL BE RIGID GALVANIZED STEEL.
- ALL CONDUCTOR SHALL BE STRANDED, 600V THWN INSULATED COPPER.
- THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL ELECTRICAL COMPONENTS AND HARDWARE AS REQUIRED BY THE NATIONAL ELECTRICAL CODE, LATEST EDITION, AND SHALL COMPLY WITH THE REQUIREMENTS OF THE INSPECTING AUTHORITY HAVING JURISDICTION. THE ELECTRICAL CONTRACTOR SHALL SUPPLY UPON COMPLETION, STAMPED ELECTRICAL DRAWINGS.

DISCLAIMER NOTE

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD 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.

CONSTRUCTION NOTES

- 120V, 1P, WP DISC. SW. FOR MOTORIZED GATE. VERIFY OTHER REQUIREMENTS WITH VENDOR.
- PROVIDE 1" CONDUIT BETWEEN KEYPADS FOR GATE CONTROL.
- RUN A 1" CONDUIT TO BUILDING FOR REMOTE GATE CONTROL. COORDINATE FINAL LOCATION WITH OWNER.
- J BOX FOR KEY PAD.
- INSTALL NEW CIRCUIT IN EXISTING 100 AMP, 208Y/120V ELECTRICAL PANEL "D" IN TRAINING CENTER BUILDING MECHANICAL ROOM.
- ELECTRICAL CONTRACTOR TO VERIFY NEW LOADS WILL NOT EXCEED PANEL "D" PANEL AMP RATING.
- INSTALL NEW RGS (RIGID GALVANIZED STEEL) CONDUIT FROM PANEL TO ROOF. 1" CONDUIT, 12-#10.
- INSTALL AND SEAL (WATER PROOF) ROOF MOUNTED NEMA 3R PULLBOX, ELECTRICAL CONTRACTOR TO VERIFY SIZE.
- BUILD AN RGS (RIGID GALVANIZED STEEL) CONDUIT SYSTEM TO ROUT CONDUITS TO NORTH AND SOUTH END OF BUILDING. 1" CONDUIT, 6-#10.
- USE EXISTING WALL MOUNTED J BOX ON SOUTH SIDE OF BUILDING TO ROUTE CONDUIT TO NEW GATE. LOCATE STUB UP, AND TRENCH TO NEW GATE LOCATION.
- INSTALL NEW EXTERNALLY MOUNTED J BOX ON NORTH SIDE OF BUILDING. TRENCH AS NEEDED TO NEW NORTH GATE LOCATION.

PROJ NO: AZ03021
DESIGN: LG
DATE: 08/18/03
SCALE: AS SHOWN
CADFILE: FTC_05

STAMP DATE: 08-18-03
EXP. DATE: 12-31-04

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Tel: 702-306-3428
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AZTEC

CITY OF LAS VEGAS
FIRE TRAINING CENTER
ELECTRICAL DESIGN

SHEET
C-5
5 OF 5 SHTS
PROJECT ID
630-13-1

Aug 18, 2003 - 2:20pm
lgreda
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