

Avoid cutting underground utility lines. It's costly.

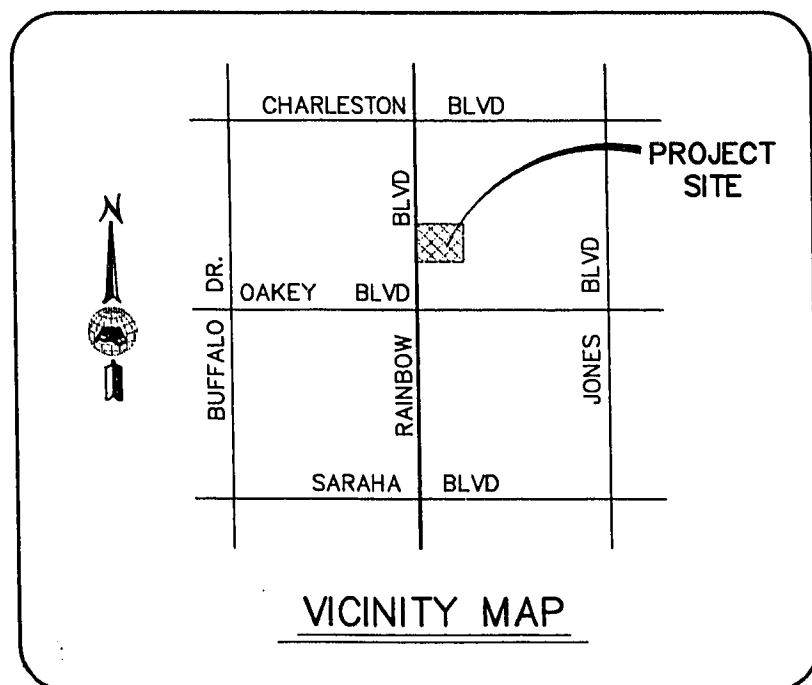
Call
before you
Dig
1-800-227-2600

CITY OF LAS VEGAS GENERAL NOTES

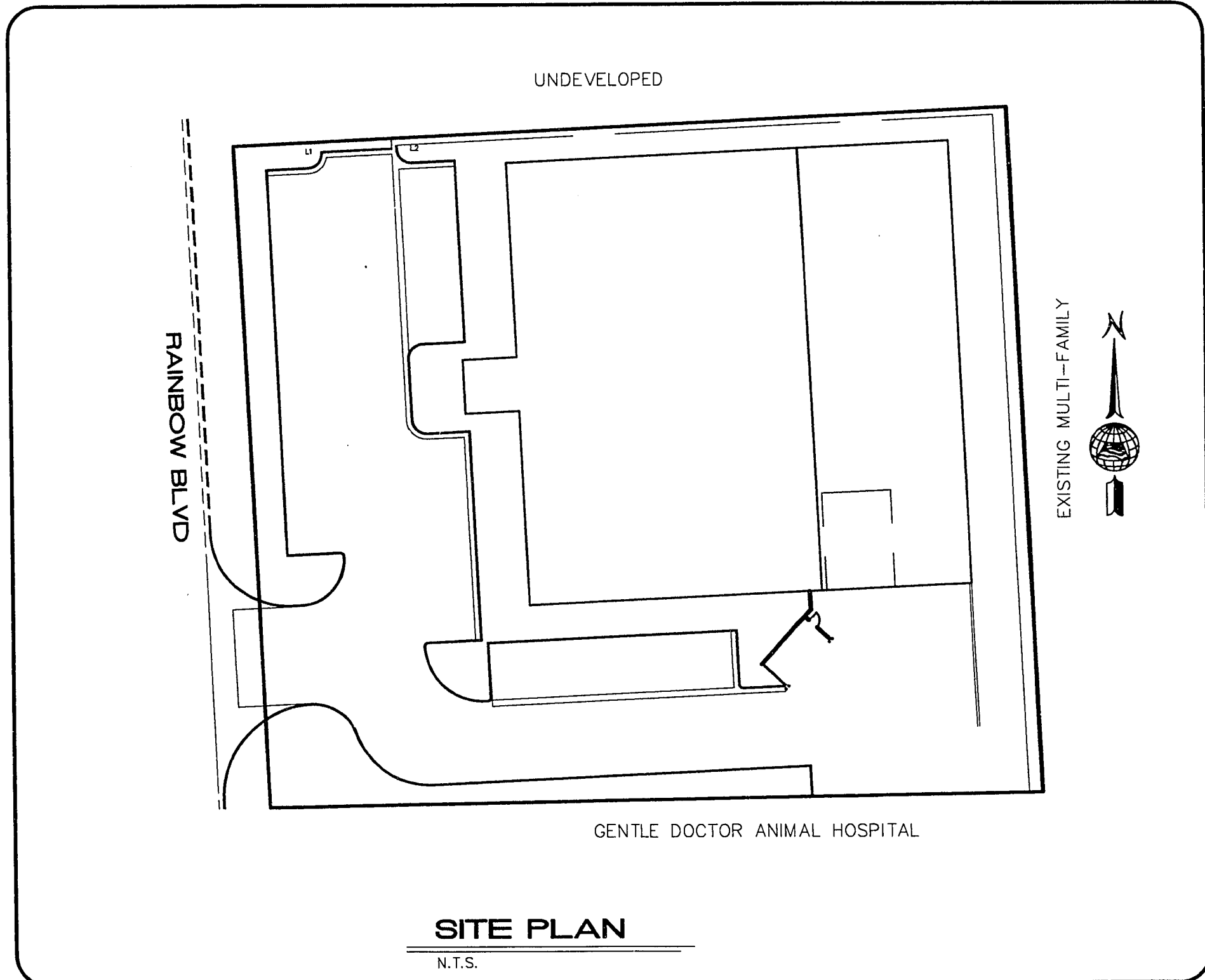
- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST ISSUE, AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; THE UNIFORM BUILDING CODE; AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE. EXCEPT AS NOTED ON THIS SHEET AS "DEVIATIONS FROM STANDARDS".
- THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCES WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD OR UNDERGROUND POWER, GAS AND/OR OTHER UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COSTS AND LIABILITY IN CONNECTION THEREWITH.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES, AND STREET IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER OR OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.
- ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS. ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
- TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM @ 28 DAYS. MIX DESIGN TO BE APPROVED BY THE QUALITY CONTROL DIVISION PRIOR TO USE ON THE PROJECT.
- PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT OF WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
- EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED TYPE CURB.
- AC PAVEMENT TO BE 1/2" ABOVE LIP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS.
- APPLY FOG SEAL ONLY AFTER ALL CORRECTIONS AND ADJUSTMENTS HAVE BEEN MADE.
- CURB & GUTTER WITH A GRADE OF LESS THAN FOUR TENTHS OF ONE PERCENT SHALL BE WATER TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION. ANY CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY SHALL BE REMOVED AND REPLACED.
- SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF TRANSITIONS TO BE AS SHOWN ON PLANS, OR AS DESIGNATED IN THE FIELD BY A CITY INSPECTOR.
- ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY THE SOILS ENGINEER AND APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.
- EXACT LOCATION OF ALL SAWCUT LINES MAY BE DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS INSPECTOR IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATION.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH N.R.S. STATUTE NO. 625.550.
- UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC. SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOWLINES, AND CROSS GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE UTILITY COMPANY AND THE CITY ENGINEER.
- WALL NOTES:
 - ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN FOR THE PURPOSE OF GRADING RELATIONSHIPS.
 - THE STRUCTURAL AND ARCHITECTURAL DESIGN OF ALL WALLS (RETAINING OR NON-RETAINING) MUST BE APPROVED BY THE CLV BUILDING DEPARTMENT.
- ASPHALT MIX DESIGN MUST BE SUBMITTED TO, AND APPROVED BY, THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT ON CITY STREETS.

REVISED 12/92 013M

NOTE:
ALL WORK IN SOUTH RAINBOW BLVD. REQUIRES PERMIT AND APPROVAL FROM N.D.O.T.



IMPROVEMENT PLANS FOR ETHAN ALLEN



INDEX OF SYMBOLS

	FIRE HYDRANT
	SANITARY SEWER MANHOLE
	GATE VALVE
	LOT NUMBER
	PAD GRADE
	BLOCK NUMBER
	ELEVATION DESCRIPTION
	PERCENT OF GRADE AND DIRECTION OF FLOW

ABBREVIATIONS

T.C.	TOP OF CURB
F.L.	FLOW LINE
H.P.	HIGH POINT
TYP.	TYPICAL
A.C.	ASPHALTIC CONCRETE
EX.	EXISTING
B.C.R.	BEGINNING OF CURB RETURN
F.G.	FINISHED GRADE
C1	CURVE LABEL (SEE CURVE TABLE)
L1	LINE LABEL (SEE LINE TABLE)
B.V.C.	BEGIN VERTICAL CURVE
P.V.I.	POINT OF VERTICAL INTERSECTION
E.V.C.	END VERTICAL CURVE
G.B.	GRADE BREAK
T.R.W.	TOP OF RETAINING WALL
T.F.	TOP OF FOOTING
L.F.	LINEAL FEET
SAN. M.H.	SANITARY MANHOLE
S.S.	SANITARY SEWER
W.L.	WATER LINE

BENCHMARK

CITY OF LAS VEGAS BENCHMARK No. 7C10 2NWW6
RIVET AND PLATE IN TOP OF CURB, NE RETURN
OF RAINBOW BLVD. AND OAKLEY BLVD.
ELEVATION: 2400.285

BASIS OF BEARING

NORTH 02°37'57" WEST, BEING THE WESTERLY LINE OF THE
NORTHWEST QUARTER (NW 1/4) OF SECTION 2, TOWNSHIP 21
SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA, AS
SHOWN BY MAP IN FILE 73 OF PARCEL MAPS, PAGE 75, OFFICIAL
RECORDS, CLARK COUNTY, NEVADA.

OWNER / DEVELOPER

NIGRO AND ASSOCIATES
2065 E. SAHARA AVE.
LAS VEGAS, NEVADA 89104
(702) 369-2777

SHEET INDEX

- COVER SHEET
- DIMENSION PLAN and UTILITY PLAN
- GRADING PLAN

APPROVALS

DENNIS ANDERSON P.E. #9160
CITY ENGINEER
DATE 11-22-93

GEORGE A. JACOBY
LAS VEGAS VALLEY WATER DISTRICT
DATE 1/11/94

CITY OF LAS VEGAS FIRE DEPARTMENT
DATE 11-16-93

NEVADA STATE ENGINEER
DATE 9/14/93

DEVIATIONS FROM STANDARDS

- VALLEY GUTTER ON RAINBOW BLVD. DESIGNED TO MATCH EXISTING CURB AND GUTTER. FLOWLINE DESIGNED AT LESS THAN THE MINIMUM 0.50% REQUIRED BY CITY OF LAS VEGAS STANDARDS.

ESTIMATED QUANTITIES (ONSITE)

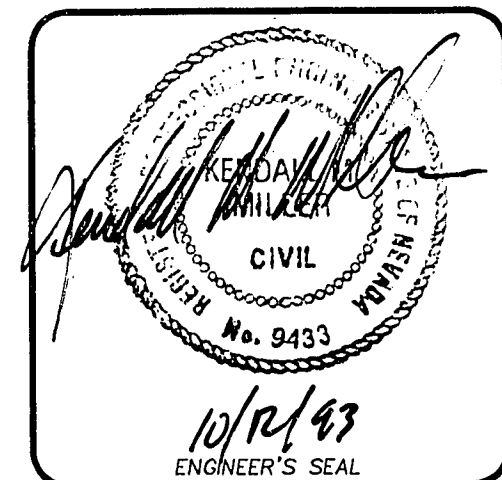
WATER		STREET	
ITEM		ITEM	
1. 4" WATERLINE	LF	1. 2" A.C. PAVEMENT	SY
2. 1" WATERLINE	LF	2. AGGREGATE BASE	CY
3. 6" WATERLINE	LF	3. "A" TYPE CURB and GUTTER	LF
4. 4" DETECTOR CHECK & VAULT	1 EA	4. SIDEWALK	SF
		5. VALLEY GUTTER	SF

SANITARY SEWER	
ITEM	
1. 4" SEWER LATERAL	1 EA

NOTE:
QUANTITIES SHOWN ARE APPROXIMATIONS ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALCULATING THE EXACT QUANTITIES.

ESTIMATED QUANTITIES (OFFSITE)

WATER		STREET	
ITEM		ITEM	
1. F.H. ASSEMBLY (8"x6" TAPPING SLEEVE & 6" TAPPING VALVE, FIRE HYDRANT)	1 EA	1. 2" A.C. PAVEMENT	50 SY
2. 8"x4" TAPPING SLEEVE & 4" TAPPING VALVE	1 EA	2. TYPE II AGGREGATE BASE	45 CY
3. 1" METER (FROM LVWD)	1 EA	3. SIDEWALK	1285 SF
		4. VALLEY GUTTER	700 SF
		5. 250W HPS STREETLIGHTS	2 EA



Church Engineering
A Division of
PBSJ
ENGINEERING • PLANNING • SURVEYING • CONSTRUCTION SERVICES

ETHAN ALLEN

COVER SHEET

Job Number	Drawn by	Scale	File No.
7224.560	RMM		560IMP
Sheet Number	Checked by	Date	Plot Date
1 OF 3	GR	AUG 10, 1993	10/12/93

107-V2169