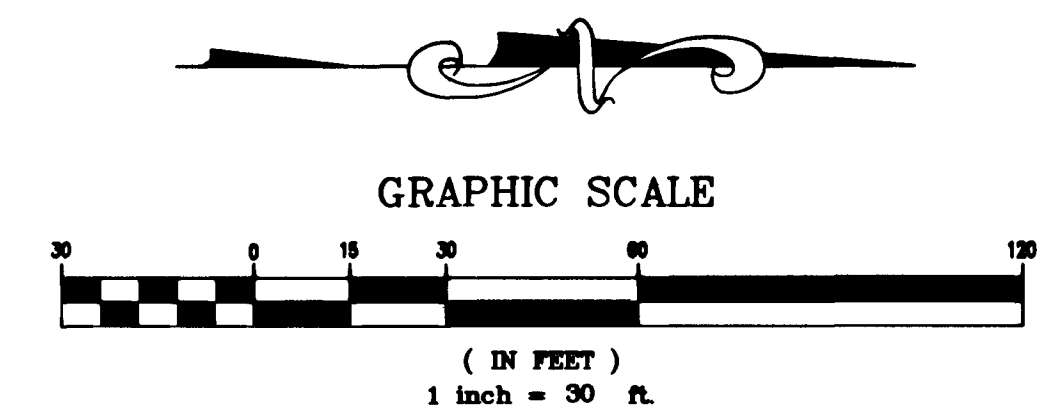




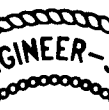
SOUTH LINE OF THE SE 1/4 SW 1/4 OF SECTION 26, T 20 S, R 61 E,
AS DELINEATED ON THAT CERTAIN RECORD OF SURVEY IN FILE 104,
PAGE 88, BEING S 80°55'02"E.

CITY OF LAS VEGAS BM 2LV01-26S4 RIVET AND SQUARE PLATE IN
TOP OF CURB, NE CORNER OF BONANZA ROAD AND N. BRUCE
STREET. NAVD 88 ELEVATION 572.629 METERS (1878.70 FEET)

[illegible]

DESIGN BY _____ DATE _____

seal



The seal is circular with a double-lined border. The outer ring contains the text "PROFESSIONAL ENGINEER-STATE OF NEVADA". The center contains the name "JAMES R. DAVIS", the expiration date "Exp. 12-31-04", and the word "CIVIL". Below the seal, the number "No. 8292" is printed. At the bottom of the page, the date "12/12/03" is handwritten.

No. 8292

12/12/03

MARTIN & MARTIN
CIVIL ENGINEERS
2101 SOUTH JONES BLVD.
SUITE 120
LAS VEGAS, NEVADA 89146
PHONE (702) 248-8000
FAX (702) 248-8070
E-MAIL: MARTMART@VCM.COM

EXISTING SEWER ABANDONMENT PLAN

FROM BONANZA ROAD
TO HARRIS AVENUE

sheet
C8
HEET 8 OF 45
wing number
307-V841

BID# 04.1730.06

PROTECT WATERLINES IN PLACE. WHEREVER A WATERLINE IS ABOVE A STORM DRAIN OR SEWER WHERE COMPACTATION REQUIREMENTS UNDER A WATERLINE CANNOT BE MET, BACKFILL TRENCH WITH CONTROL LOW STRENGTH MATERIAL (CLSM) TO THE SPRINGLINE OF THE WATERLINE. THIS REQUIREMENT IS FOR STRUCTURAL SUPPORT ONLY, ADDITIONAL HEALTH REGULATIONS MAY APPLY PER UDACS 2.19.

Rahel J. Morgan ^{1st App'd. 10/6/03} ^{12/15/03}
L.V.V.W.D. DATE

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.

AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY. Call before you Dig— 1-800-227-2600 UNDERGROUND SERVICE ALERT (U.S.A.)	AVOID OVERHEAD POWER LINE CONTACT Call before you OVERHEAD 1-702-593-6111 NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT
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WHEN A WATERLINE IS LESS THAN EIGHTEEN (18) INCHES ABOVE A SEWER OR STORM DRAIN LINE OR ANYTIME A WATER LINE IS BELOW A SEWER OR STORM DRAIN LINE THE FOLLOWING PROVISIONS SHALL APPLY:

- 1) A REASONABLE EFFORT MUST BE MADE TO PLACE WATER AND SEWER PIPELINE JOINTS AN EQUAL DISTANCE FROM THE CROSSING POINT. THIS REQUIREMENT DOES NOT APPLY TO WELDED JOINTS.
- 2) A MINIMUM VERTICAL SEPARATION OF SIX (6) INCHES MUST BE MAINTAINED AND STRUCTURAL SUPPORT IN THE FORM OF A CEMENT SLURRY ENCASEMENT WHICH WILL EXTEND UPWARD FROM THE SEWER/STORM DRAIN LINE TO THE SPRINGLINE OF THE WATER LINE.
- 3) THE CROSSING SHALL BE CONSTRUCTED USING ONE OF THE FOLLOWING OPTIONS:
 - A) THE SEWER LINE MUST BE CONSTRUCTED OF WATER SUPPLY QUALITY MATERIALS MEETING AWWA STANDARDS.
 - B) THE SEWER OR WATERLINE SHALL BE TOTALLY ENCASED BY A MINIMUM FOUR (4) INCH THICK, 300 PSI CEMENT SLURRY, A DISTANCE OF TEN FEET ON EACH SIDE OF THE CROSSING MIDPOINT. THIS OPTION IS NOT AVAILABLE FOR ACP.
 - C) THE SEWER OR WATER LINE SHALL BE INSTALLED IN A SLEEVE OF WATER QUALITY PIPE OR STANDARD CASING, WITHOUT JOINTS , TEN FEET ON EACH SIDE.

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