



**GRAPHIC SCALE**  
 0 15 30 60 120  
 (IN FEET)  
 1 inch = 30 ft.

**BASIS OF BEARING**  
 SOUTH 89°45'22" WEST, BEING THE BEARING OF THE STREET CENTERLINE OF EL PARQUE AVENUE BETWEEN LAS VERDES STREET AND LOS ALTOS STREET AS SHOWN IN BOOK 7, PAGE 12 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

**BENCHMARK**  
 CITY OF LAS VEGAS BENCHMARK '81V11 666', BEING A RIVET AND PLATE IN THE TOP OF CURB ON THE SOUTH SIDE OF DAKEY BOULEVARD @ HINSON STREET.  
 ELEVATION: 2165.45 FEET (660.032 METERS)  
 NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88)

- WATER CONSTRUCTION NOTES**
- INSTALL 6" PVC C-900 CLASS 150 WATER MAIN PER UDACS PLATE NO. 16 AND 17. REPLACE EXISTING SIDEWALK, AC PAVEMENT, CURB, AND LANDSCAPING WHERE ENCOUNTERED PER CCUSD AND CLV REQUIREMENTS. (FIRE)
  - INSTALL FIRE HYDRANT ASSEMBLY AND VALVE PER UDACS PLATE NO. 40 (CONDITION C).
  - INSTALL DUAL 2" RPPA'S PER UDACS PLATE NO. 9. (DOMESTIC)
  - INSTALL 4" DODA PER UDACS PLATE NO. 59. REPLACE EXISTING SIDEWALK, AC PAVEMENT, CURB, AND LANDSCAPING WHERE ENCOUNTERED PER CCUSD AND CLV REQUIREMENTS. (FIRE)
  - INSTALL 90° BEND AND THRUST BLOCK PER UDACS PLATE NO. 31. (SAME SIZE AS LINE)
  - SEE PLUMBING ENGINEER'S PLANS FOR CONTINUATION OF SYSTEM.
  - PROPOSED LVVWD EASEMENT.
  - INSTALL NEW SERVICE CONNECTION WITH MJ TAPPING SLEEVE & VALVE (SIZE AS NOTED ON THE PLANS) PER UDACS PLATE NO. 34. (FIRE)
  - INSTALL BLUE REFLECTIVE HYDRANT MARKER PER CLV FIRE DEPARTMENT REQUIREMENTS.
  - INSTALL 4" RPPA PER UDACS PLATE NO. 59. REPLACE EXISTING SIDEWALK, AC PAVEMENT, CURB, AND LANDSCAPING WHERE ENCOUNTERED PER CCUSD AND CLV REQUIREMENTS. (IRRIGATION)
  - INSTALL DEEP FIRE HYDRANT ASSEMBLY AND VALVE PER UDACS PLATE NO. 41 (CONDITION C).
  - ASPHALT PAVEMENT REPLACEMENT PER CCUSD NO. 500.5.
  - INSTALL 3" PE WATER LINE. MAINTAIN MIN. 12" VERT. AND HORIZ. SEPARATION FROM SEWER LINES. CONTRACTOR SHALL INSTALL ALL BENDS, FITTINGS, AND TEES AS REQUIRED TO RE-CONNECT EX. FACILITIES TO NEW 3" LINE.

- PRIVATE SEWER CONSTRUCTION NOTES**
- REMOVE WHERE ENCOUNTERED & REPLACE EX. 4" PVC SANITARY SEWER PER DCSWCS STD. DWG. SD14-16, SD-20, AND SD-21. REPLACE EXISTING SIDEWALK, AC PAVEMENT, CURB, AND LANDSCAPING WHERE DISTURBED PER CCUSD AND CLV REQUIREMENTS.
  - INSTALL CLEANOUT PER DCSWCS STD. DWG. SD-26.
  - INSTALL WYE (SIZE AS NOTED ON PLANS).
  - SEE PLUMBING ENGINEER'S PLANS FOR CONTINUATION OF SYSTEM.
  - CONNECT TO EX. SS AT R/W. FIELD VERIFY INVERT.
  - CONNECT TO EX. SS. FIELD VERIFY INVERT.
  - REMOVE WHERE ENCOUNTERED & REPLACE EX. 6" PVC SANITARY SEWER PER DCSWCS STD. DWG. SD14-16, SD-20, AND SD-21. REPLACE EXISTING SIDEWALK, AC PAVEMENT, CURB, AND LANDSCAPING WHERE DISTURBED PER CCUSD AND CLV REQUIREMENTS.

**ESTIMATED UTILITY QUANTITIES**

DESCRIPTION	PUBLIC	PRIVATE
WATER FACILITIES:		
6" WATERLINE	101 LF	185 LF
FIRE HYDRANT ASSEMBLY	3 EA	-
2" RPPA	2 EA	-
4" DODA	1 EA	-
4" RPPA	1 EA	-
3" WATERLINE	-	96 LF
SANITARY SEWER FACILITIES:		
4" SEWER	-	353 LF
6" SEWER	-	118 LF

- GENERAL NOTES**
- ALL EXISTING UTILITIES DEPICTED ON THIS PLAN ARE APPROXIMATE BASED ON REFERENCE DESIGN DOCUMENTS PROVIDED BY THE CCSD AS WELL AS FIELD OBSERVATIONS MADE BY THE DESIGN TEAM.
  - ALL EXISTING SANITARY SEWER IS CAST IRON UNLESS OTHERWISE NOTED.
  - THE CONTRACTOR SHALL CORRECT CROSS CONNECTIONS BETWEEN WATER/SPRINKLER LINES WHERE ENCOUNTERED BY INSTALLING AN APPROVED BACKFLOW PREVENTER.
  - ALL ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF TITLE 19.12.040.

**SIGMA ENGINEERING SOLUTIONS, INC.**  
 313 PILOT ROAD, SUITE B  
 LAS VEGAS, NV 89119  
 PH. 702.247.4462  
 FAX 702.632.2838

**VEGAS VERDES ELEMENTARY SCHOOL  
 HVAC AND SCHOOL MODERNIZATION  
 APN: 162-06-701-001**

**CIVIL OVERALL UTILITY PLAN**

DRAWN BY: K. HILL, P.E.  
 CHECKED BY: SIGMA  
 DATE: 10/04/11  
 SCALE: 1"=30'

JOB NO. 10\_0140

11/19/11

9 OF 10

715-87-2

APPROVED FOR CONSTRUCTION

*W. Gregory*  
 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER  
 DATE: 10/24/11 PROJECT NO. 116815  
 LVVWD APPROVED FIRE FLOW 2250 GPM AT 20 PSI RESIDUAL

*R. Smith* (OFF-SITE ONLY) 11/19/11  
 CITY OF LAS VEGAS FIRE DEPARTMENT DATE

178334

AVOID HITTING UNDERGROUND TRAFFIC SIGNAL AND STREET LIGHT SYSTEMS. IT'S COSTLY.

CALL BEFORE YOU DO UNDERGROUND WORK  
 CALL 702-455-7511  
 OR  
 CALL 702-432-5300

CALL BEFORE YOU DO OVERHEAD WORK  
 CALL 702-227-2929

AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.  
 CALL 811  
 OR  
 1-800-227-2600