

UTILITY GENERAL NOTES:

- ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTIONS SYSTEMS" (U.D.A.C.S.), LATEST ADDITION.
- ALL EXISTING SANITARY SEWER / STORM DRAIN CROSSING WATER LINES MUST CONFORM TO SECTION 2.19 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS (U.D.A.C.S.).
- THESE DRAWINGS MAY NOT INDICATE ALL EXISTING BURIED UTILITY LINES. CONTRACTOR IS TO EXERCISE EXTREME CAUTION DURING EXCAVATION IN ORDER TO AVOID MAKING CONTACT WITH ANY EXISTING UTILITY LINES. IF UTILITY LINES ARE DAMAGED BY THE CONTRACTOR, SUCH DAMAGE SHALL BE REPLACED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR TO LOCATE AND VERIFY SIZE, LINE TYPE, CONDITION, DEPTH, PRESSURE, AND LOCATION OF ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA PRIOR TO CONSTRUCTION. THE CIVIL ENGINEER SHALL BE CONTACTED ONCE THE UTILITY LINE IS LOCATED.
- CONTRACTOR TO SAWCUT AND REMOVE EXISTING ASPHALT AND CONCRETE AS NECESSARY FOR UTILITY TRENCHES, BACKFILL AND PATCH ALL TRENCHES AS INDICATED ON DETAILS AND/OR ACCORDING TO THE GOVERNING ENTITY.
- ALL DIMENSIONS TO UTILITIES ARE TO CENTERLINE OF PIPE UNLESS INDICATED OTHERWISE.
- CONTRACTOR TO VERIFY UTILITY STUB LOCATIONS AND SIZE WITH PLUMBING PLANS PRIOR TO INSTALLATION OF NEW UTILITIES.
- WATER AND SEWER SEPARATION OF TRENCHES MUST BE AT LEAST 10' MINIMUM (TYPICAL). SEE D.C.S.W.C.S. SECTION 2.2.21 a1, U.D.A.C.S. SECTION 2.19.01 A.
- INSTALL PIPELINE MARKER BALL IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTINGS PER THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS (U.D.A.C.S.) PLATE NO.27.
- TRENCH BACKFILL FOR WATER LINES TO BE CONSTRUCTED PER U.D.A.C.S. PLATE NO. 6C.
- WATER LINES TO HAVE THRUST BLOCKS CONSTRUCTED, PER U.D.A.C.S. PLATE NO. 5. THRUST BLOCKS TO BE LOCATED AT ALL ANGLE FITTINGS (BENDS), TEE'S AND FIRE HYDRANTS. ANCHOR BLOCKS TO BE CONSTRUCTED, PER U.D.A.C.S. PLATE NO. 3. ANCHOR BLOCKS TO BE LOCATED AT ALL IN-LINE REDUCERS AND GATE VALVES.
- THE FIRE SAFETY CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING THE SIZE OF PIPING THAT IS REQUIRED TO CONNECT FROM THE WATER LOOP TO THE FIRE SPRINKLER RISER. LINE SIZE SHOWN FOR INFORMATION PURPOSES ONLY.
- FIRE CODE REQUIREMENTS: TWO SOURCES OF WATER SUPPLY ARE REQUIRED WHENEVER THERE ARE MORE THAN THREE (3) FIRE HYDRANTS INSTALLED ON A SINGLE SYSTEM.
- FDC SHALL BE INTERCONNECTED TO BUILDING SPRINKLER SYSTEMS.
- FOR FIRE FLOW AND APPROVAL SEE FIRE CONTROL SHEET C6.00.
- THE EXISTING GAS LINE LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATIONS ONLY.
- ALL ONSITE UTILITY FACILITIES ARE PRIVATE (PVT) AND ALL OFFSITE UTILITY FACILITIES ARE PUBLIC UNLESS OTHERWISE NOTED.
- LOPEZGARCIA GROUP (LGG) HAS PROVIDED UTILITY INFORMATION BASED ON THE MOST CURRENT DATA AVAILABLE FOR THE CONTRACTORS INFORMATION. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF UNDERGROUND UTILITIES SHOWN OR NOT SHOWN ON THESE PLANS WITH RESPECT TO LINE AND GRADE PRIOR TO CONSTRUCTION.

DISPOSAL OF ASBESTOS CEMENT PIPE

DISPOSAL OF ASBESTOS CEMENT PIPE SHALL BE IN ACCORDANCE WITH AWWA, LOCAL STATE, AND FEDERAL REGULATIONS.

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS ~~3035~~ 2935 GALLONS PER MINUTE AT 20 PSI RESIDUAL PRESSURE. BASED ON:

SQUARE FOOTAGE: 235,400 S.F.

LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS: N/A

BUILDING HEIGHT: 132'

NUMBER OF STORIES: 8 MAX

TYPE OF CONSTRUCTION: 1A REDUCE TO 1B PER IBC 403.3.1

OCCUPANCY: I-2

FULL AUTOMATIC FIRE SPRINKLER SYSTEM: YES NO

REVIEWED BY: [Signature] DATE: 11/5/05
LAS VEGAS FIRE DEPARTMENT

REDUCED PRESSURE PRINCIPLE ASSEMBLY (2) 4"

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 11C. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LWWD.

ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY.

EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION. ESN.026 REVISED 6/1/04

ABANDONED VALVE CUT AND CAP

ALL VALVES TO BE ABANDONED SHALL BE ABANDONED IN THE CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF EIGHT (8) INCHES OF SAND OR TYPE II AGGREGATE BASE, THE REMAINING PORTION OF THE VALVE BOX SHALL BE FILLED WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST TWO THOUSAND (2,000) PSI. THE LATERAL MUST BE CUT WITHIN THREE (3) FEET OF THE ABANDONED VALVE, OR AS SHOWN ON PLANS, AND CAPPED. THE CONTRACTOR SHALL CUT THE EXISTING PIPE WHERE SHOWN ON THE DRAWING AND INSTALL A CAP COMPLETE WITH THRUST BLOCK. WHERE A JOINT OR COUPLING IN THE EXISTING PIPE IS UNCOVERED AT THE CUT AND CAP LOCATIONS, THE INSTALLATION OF A PLUG MAY BE PERMITTED WITH DISTRICT APPROVAL. A CONCRETE THRUST BLOCK SHALL BE INSTALLED AT ALL CAP OR PLUG LOCATIONS IN ACCORDANCE WITH THE PROVISIONS OF UDACS PLATE 5. ESN.033 REVISED 6/1/04

DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) (2) 10"

THE DOUBLE CHECK DETECTOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACS PLATE NO. 11C.

ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) SO AS TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY.

EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION. ESN.006 REVISED 6/1/04

L.V.V.W.D. APPROVAL

LAS VEGAS VALLEY WATER DISTRICT, PROJ. _____ DATE _____

BASIS OF BEARING

THE BASIS OF BEARING IS A LINE BETWEEN THE N1/4 COR. OF SEC. 20, T. 19 S., R. 60 E., M.D.M., AND THE E1/16 COR. OF SAID SEC. 20, AS SHOWN ON EXHIBIT B OF DOC. 20030131:03151, WHICH IS THE DEDICATION OF ELKHORN ROAD, WHICH BEARS S 89°42'15" E.

CLV BENCHMARK #BLV90-2016 RIVET & PLATE IN CONCRETE CYLINDER NE CORNER OF EL CAPITAN & DORRELL ELEVATION: 788.9015 METERS, 2588.25 FEET

REV.	DESCRIPTION:	DATE:	BY:

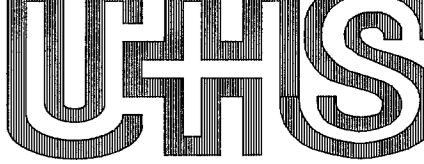
Avoid cutting underground utility lines. It's costly.

Call before you Dig
1-800-227-2600

Avoid overhead power line contact. It's costly.

Call before you OVERHEAD
1-702-593-6111

Call before you UnderGround
1-702-455-7511
CLARK COUNTY TRAFFIC OPERATIONS
AND
1-702-229-6611
LAS VEGAS AREA COMPUTERIZED TRAFFIC SYSTEM



CLIENT
UHS OF DELAWARE, INC
367 SOUTH GULPH ROAD
KING OF PRUSSIA, PA 19406
610-768-3300

ARCHITECT
HKS INC. OF NEVADA
1919 MCKINNEY AVE.
DALLAS, TX 75201
214.969.5599

STRUCTURAL ENGINEER
HKS STRUCTURES
1919 MCKINNEY AVE.
DALLAS, TX 75201

MEP ENGINEER
CORD PARTNERS
3625 N. HALL ST., SUITE 1300 LB 139
DALLAS, TX 75219

INTERIORS CONSULTANT
DESIGN STUDIO, INC.
161 LEVERINGTON AVE.
PHILADELPHIA, PA 19127

CIVIL ENGINEER
LOPEZGARCIA GROUP
1825 MARKET CENTER, SUITE 500
DALLAS, TX 75207

FOOD SERVICE CONSULTANT
SDI, INC.
5200 DTC PARKWAY, SUITE 500
GREENWOOD VILLAGE, CO 80111

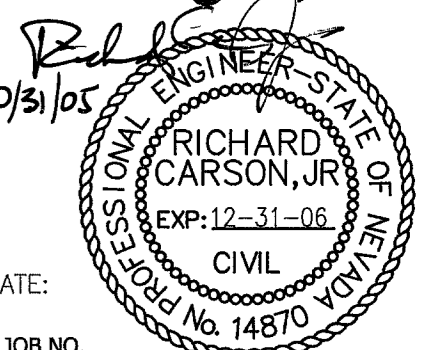
LANDSCAPE ARCHITECT
JW ZUNINO AND ASSOCIATES
3191 S. JONES BLVD.
LAS VEGAS, TN 89146



Centennial Hills Hospital
Medical Center

Centennial Hills Hospital

Las Vegas, NV



DATE:

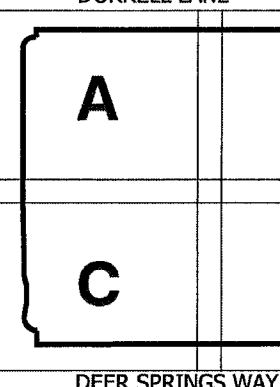
HKS JOB NO.

8849

KEY PLAN



DORRELL LANE



DEER SPRINGS WAY

DATE

20 Jun 05

BID/PERMIT ISSUE

20 JUN 05

CITY OF LAS VEGAS - CIVIL REVIEW

15 SEPT. 05

FINAL SUBMITTAL

31 OCT. 05

SHEET TITLE

WATER & WASTEWATER GENERAL NOTES

SHEET NO.

C6.1

SHEET NO. 35 OF 43

11/7/05

24.128-WW.DWG

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