

## LAS VEGAS VALLEY WATER DISTRICT STANDARD NOTES

- NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN RELEASED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, 48 HOUR NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATIONS SUPPORT CENTER (258-1111) PRIOR TO THE START OF CONSTRUCTION. NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO A LVVWD INSPECTION.
- ALL WORK SHALL CONFORM TO LVVWD'S STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS), LATEST EDITION.
- ALL WORK, EXCEPT AS MODIFIED BY THESE DRAWING, SPECIFICATIONS OR BY NOTE 2, SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENTS, CLARK COUNTY AREA.
- A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
- ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE COPPER TUBING WITH LVVWD APPROVED SERVICE SAUDES.
- ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
- ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
- THE FOLLOWING REQUIREMENTS MUST BE MET IN THE EVENT A WATER LINE AND SANITARY OR STORM SEWER LINE CROSS:
  - A. A MINIMUM EIGHTEEN (18) INCH VERTICAL SEPARATION (OUTSIDE TO OUTSIDE) MUST BE MAINTAINED WHEN THE WATER LINE IS INSTALLED OVER THE SANITARY OR STORM SEWER LINE. IF THE VERTICAL SEPARATION CANNOT BE MAINTAINED OR THE WATER LINE MUST BE PLACED UNDER THE SANITARY OR STORM SEWER LINE, THE SANITARY OR STORM SEWER LINE MUST BE CONSTRUCTED WITH ONE OF THE FOLLOWING OR, AS SHOWN ON THESE PLANS:
    - A. POTABLE WATER SUPPLY QUALITY MATERIAL.
    - B. ENCASED WITH FOUR (4) INCH CONCRETE (MINIMUM)
    - C. SLEEPING WITH POTABLE WATER SUPPLY QUALITY PIPE.
  - EACH PROVISION MUST EXTEND ALONG THE SANITARY OR STORM SEWER, ON EITHER SIDE OF THE MAIN, A MINIMUM 10 FOOT DISTANCE PERPENDICULAR TO THE WATER MAIN EXTERIOR.
- WARNING TAPE SHALL BE REQUIRED OVER ALL MAINS, ALL SIX (6) INCH DIAMETER AND LARGER SERVICE LATERALS, AND ANY SERVICE LATERAL NOT INSTALLED PERPENDICULAR TO THE MAIN IN ACCORDANCE WITH STANDARD PLATE NO. 27.
- ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED AND AN ACCEPTABLE WATER SAMPLE OBTAINED, PRIOR TO CONNECTION TO THE LVVWD'S DISTRIBUTION SYSTEM.
- THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 FORTY-EIGHT (48) HOURS PRIOR TO PICKUP.
- CONSTRUCTION MAY INTERRUPT SERVICE, WITH LVVWD APPROVAL AND PROPER NOTIFICATION, BETWEEN THE HOURS OF 7 P.M. AND 6 A.M. SUNDAY THROUGH THURSDAY. CIRCUMSTANCES MAY REQUIRE TEMPORARY SERVICE FEES BE INSTALLED, WITHOUT LVVWD REIMBURSEMENT. ANY TEMPORARY SERVICE FEE MUST HAVE PRIOR LVVWD APPROVAL.
- ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD'S PRE-APPROVED MATERIALS AND MANUFACTURERS LISTING FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS.

## SEWER NOTES

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN & CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED. IN ALL CASES, THESE STANDARDS SHALL SUPERSEDE THE UNIFORM STANDARD SPECIFICATIONS. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE STANDARDS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS. ANY ADDITIONS, DELETIONS OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CONTROLLING AGENCY.
- CHISEL "S" OR "C" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
- POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II GRAVEL.
- ALL MANHOLES IN PAVED STREETS, 80' R/W AND LARGER, SHALL HAVE CONCRETE COLLARS.
- TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO 12" DIA. SIZE. CONNECTION TO 15" OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES.
- A SEWER MAIN CROSSING OVER A WATER MAIN OR LESS THAN 18" UNDER A WATER MAIN, MUST BE REINFORCED CONCRETE ENCASED FOR A DISTANCE NOT LESS THAN TEN FEET (10') TO EACH SIDE OF THE CENTERLINE OF THE WATER MAIN.
- ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CONTROLLING AGENCY MUST BE CLASS "A" CONTRACTORS.
- THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN A TENTH (0.1) OF A FOOT FROM THE APPROVED CONSTRUCTION PLANS. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED AND REPLACED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY.

## NOTE

ALL ON-SITE SEWER TO BE PRIVATELY MAINTAINED.  
ALL ON-SITE STORM DRAIN TO BE PRIVATELY MAINTAINED WITH PUBLIC EASEMENTS PROVIDED BY SEPARATE DOCUMENT.

## WATER NOTE

THE CONTRACTOR SHALL NOT BACKFILL ANY TRENCHES IN WHICH WATERLINES HAVE BEEN UNCOVERED UNTIL THE WATERLINES BEEN INSPECTED BY THE LAS VEGAS VALLEY WATER DISTRICT. THE WATER DISTRICT SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF CONSTRUCTION IN THE VICINITY OF WATER LINES.

## CITY OF LAS VEGAS GENERAL NOTES

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE SUMMERLIN IMPROVEMENT STANDARDS AS APPROVED BY THE CITY COUNCIL ON 11/18/92, REVISED 2/2/93, "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE; THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 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 SATISFACTORILY 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 ENGINEER.
- TYPE V CEMENT SHALL BE USED IN ALL CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM @ 28 DAYS. MIX DESIGN TO BE APPROVED BY THE ENGINEER PRIOR TO USE ON THE PROJECT EXCEPT AS SPECIFIED WITHIN SECTION 02521.
- 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 L TYPE 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 AT THE EXPENSE OF THE CONTRACTOR.
- SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER SUMMERLIN STANDARD DRAWING 5-77. 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 CONTRACT DOCUMENTS. SOILS REPORT(S), WHICH ARE NOT PART OF THE CONTRACT DOCUMENTS, PREPARED FOR THIS PROJECT ARE AVAILABLE FOR CONTRACTOR'S REVIEW.
- 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 ACCORD 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:
  - A. ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN FOR THE PURPOSE OF GRADING RELATIONSHIPS.
  - B. THE STRUCTURAL AND ARCHITECTURAL DESIGN OF ALL WALLS (RETAINING OR NON-RETAINING) MUST BE APPROVED BY THE CIVIL BUILDING DEPARTMENT.
- ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT ON CITY STREETS.
- INDICATED GRADES ARE FINISHED GRADES.
- THE ROUGH GRADING PLANS SHALL BE ON THE JOB SITE AT ALL TIMES. THE ROUGH GRADING SHALL BE FINISHED IN CONFORMANCE WITH THE LINE AND GRADES SHOWN ON THE PLANS. THE GRADING QUANTITIES ARE BASED ON THE ELEVATIONS AND ROUGH GRADING DETAILS SHOWN ON THE PLANS. ANY DEVIATIONS FROM THE PLANS WILL RESULT IN QUANTITY CHANGES.
- SOILS REPORT BY TERRACON CONSULTANTS, PROJECT NO. 64955116 DATED APRIL, 25, 1995.
  - "CLEARING AND GRUBBING OPERATIONS WILL RESULT IN SOME MATERIAL VOLUME CHANGES. EXCAVATION AND RECOMPACTION OF THE ON-SITE SOILS MAY RESULT IN SHRINKAGE."
- EARTH QUANTITIES:
  - EXCAVATION = 98,677 C.Y.
  - FILL = 104,351 C.Y.
- THE ABOVE QUANTITIES ARE FOR ESTIMATING PURPOSES ONLY AND DO NOT REFLECT LOSSES DUE TO SUBSIDENCE OR SHRINKAGE.
- THE ABOVE QUANTITIES DO NOT REFLECT USING TYPE 1 GRAVEL BASE MATERIAL FOR STREET SECTIONS.
- THE ABOVE QUANTITIES DO NOT REFLECT ANY EARTHWORK WHICH MAY BE REQUIRED BY THE ENGINEER TO CONSTRUCT ADDITIONAL PROTECTIVE DITCHES OR BERMS NOT SHOWN ON THESE DRAWINGS.

## GENERAL NOTES

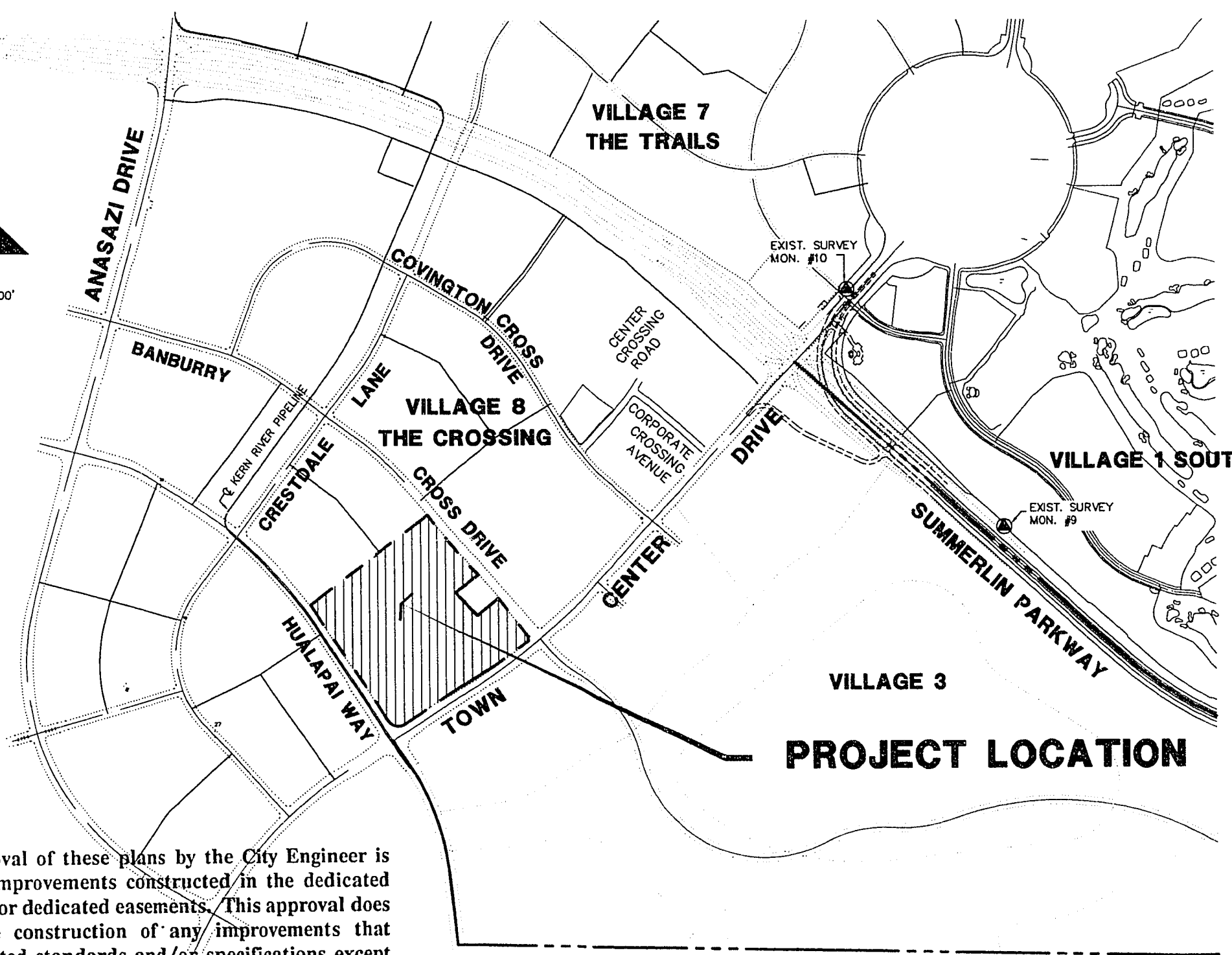
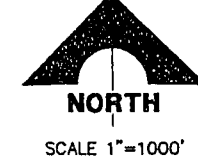
- 48 HOURS PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR SHALL CONTACT LAS VEGAS VALLEY WATER DISTRICT 870-2011 NEVADA POWER COMPANY 1-800-227-2600 SOUTHWEST GAS CORPORATION 1-800-227-2600 365-2296
- ALL BARRICADE AND TEMPORARY TRAFFIC CONTROL DEVICES OR METHODS USED DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "NEVADA TRAFFIC CONTROL MANUAL", 1985 PUBLISHED BY THE STATE HIGHWAY DEPARTMENT OF HIGHWAYS, EXCEPT AS OTHERWISE PROVIDED IN THE CONTRACT SPECIFICATIONS OR AS REQUIRED BY THE ENGINEER.
- ALL SOIL BENEATH BUILDING PAD SHALL BE COMPACTED TO 95% MAXIMUM DENSITY.
- GRADES ARE GIVEN FROM TOP OF STAKES OR NAILS. THE CONTRACTORS ARE CAUTIONED TO OBSERVE THE FOLLOWING RULES IN USING THE GRADE STAKES GIVEN BY THIS OFFICE. THREE (3) CONSECUTIVE POINTS THAT ARE SHOWN TO BE ON THE SAME RATE OF SLOPE MUST BE USED IN COMMON IN ORDER THAT ANY VARIATION OUT OF A PERFECT STRAIGHT GRADE MAY BE DETECTED IN CASE ANY SUCH DISCREPANCY IS FOUND, THE SAME MUST BE REPORTED. OTHERWISE THIS OFFICE WILL NOT BE RESPONSIBLE FOR ANY ERROR IN THE GRADE OF THE FINISHED WORK.
- THESE PLANS SHALL BE ON THE JOBSITE AT ALL TIMES.

## LOCAL BENCHMARKS

MON. NO.	STREET NAME	COORDINATES	DESCRIPTION	ELEV.
9	SUMMERLIN PARKWAY	531893.7445 583726.2303	CONC. MON. W/2" B.C.	2758.50
10	TOWN CENTER DRIVE	523816.2240 582461.3559	2" BC IN CURB	2745.40

## FIRE DEPARTMENT NOTES

- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CITY OF LAS VEGAS FIRE DEPARTMENT "HYDRANT SPECIFICATIONS", "HYDRANT INSTALLATION SPECIFICATIONS" AND ORDINANCE #3677.
  - A - KENNEDY GUARDIAN
  - B - MUELLER A-423 CENTURIAN
  - C - CLOW MODEL 2546 MEDALLION
- AUTHORIZED HYDRANTS FOR THIS PROJECT ARE:
  - A - KENNEDY GUARDIAN
  - B - MUELLER A-423 CENTURIAN
  - C - CLOW MODEL 2546 MEDALLION
- ON ANY NEW HOME OR BUILDING INSTALLATION, ACCESSIBLE FIRE HYDRANTS SHALL BE INSTALLED BEFORE COMBUSTIBLE CONSTRUCTION COMMENCES AND SAID FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER WITH AN ADEQUATE WATER SUPPLY.
- CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT CENTER-LINE OF STREET ADJACENT TO FIRE HYDRANT AS REQUIRED IN ORDINANCE #3677 TO IDENTIFY FIRE HYDRANT LOCATIONS.
- CALL THE LAS VEGAS BUILDING DEPARTMENT AT 229-2071 FOR UNDERGROUND INSPECTION, PRESSURE AND FLUSH VERIFICATION OF ALL FIRE HYDRANTS AND FIRE LINES BEFORE COVERING.
- PAINTING OF THE CURBS AND HYDRANT AND ANY WORK NECESSARY FOR PROTECTION OF HYDRANTS FROM PHYSICAL DAMAGE PER ORDINANCE #3677 SHALL BE COMPLETED BEFORE APPROVAL BY THE CITY OF LAS VEGAS FIRE DEPARTMENT.
- A PERMIT IS REQUIRED FROM THE FIRE DEPARTMENT FOR ON-SITE WATER LINE AND FIRE HYDRANT. THE PERMIT AND CONTRACTORS MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER PRIOR TO ANY WORK BEGINNING.
- A FLOW TEST MUST BE WITNESSED BY THE FIRE DEPARTMENT PRIOR TO OCCUPANCY FOR VERIFICATION OF REQUIRED ON-SITE WATER SUPPLY.
- ALL ON-SITE FIRE MAIN MATERIALS MUST BE U.L. LISTED AND F.M. APPROVED.
- FIRE HYDRANT SPACING:
  - RESIDENTIAL - 500 FEET UNSPRINKLERED, 600 FEET SPRINKLERED
  - COMMERCIAL, INCLUDING MULTI-FAMILY - 300 FEET UNSPRINKLERED, 400 FEET SPRINKLERED
- NO FIRE HYDRANTS SHALL BE LOCATED WITHIN THE REQUIRED RADIUS OF A CUL-DE-SAC OR WITHIN 20 FEET OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
- NO FIRE HYDRANT SHALL BE LOCATED WITHIN 6 FEET OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREET LIGHT OR ANY OTHER OBSTRUCTION.
- NOT MORE THAN 2 HYDRANTS CAN BE OUT OF SERVICE DUE TO A SINGLE MAIN BREAK.
- THE TURNING RADIUS FOR ANY FIRE APPARATUS ACCESS ROAD AND/OR FIRE LANE, PUBLIC OR PRIVATE SHALL BE NOT LESS THAN 45 FEET OUTSIDE RADIUS AND 22 FEET INSIDE RADIUS.
- A FIRE APPARATUS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN 150 FEET FROM A FIRE DEPARTMENT VEHICLE ACCESS. (SEE EXCEPTIONS IN UFC 91, SECTION 10.203).
- ALL DEAD END FIRE APPARATUS ACCESS ROADS AND/OR FIRE LANES PUBLIC OR PRIVATE IN EXCESS OF 150 FEET IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURNAROUND AREA. SEE ORDINANCE #3677
- ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER SYSTEM. SAID SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF LAS VEGAS GUIDELINES FOR AUTOMATIC EMERGENCY VEHICLE ACCESS GATES.



## LOCATION MAP

"Approval of these plans by the City Engineer is limited to those improvements constructed in the dedicated rights-of-way and/or dedicated easements. This approval does not authorize the construction of any improvements that deviate from adopted standards and/or specifications except those specifically listed under "Deviations from Standards". The Engineer shall resolve any deviation other than those listed in "Deviations from Standards" in favor of the Summerlin Improvement Standards and Specifications Clark County Area Nevada".

## LEGEND & ABBREVIATION

- |        |                                                                       |            |                      |          |
|--------|-----------------------------------------------------------------------|------------|----------------------|----------|
| (1)    | DRAWING NUMBER FOR SECTIONS DRAWN ON SAME SHEET                       | EMBANKMENT | TOP                  | PROPOSED |
| (1)    | DRAWING NUMBER FOR SECTION WITH REFERENCE TO THE SHEET IT IS DRAWN ON | BOTTOM     | BY SEPARATE CONTRACT |          |
| (60.5) | EXIST. SPOT ELEVATION                                                 | ---        | EXISTING             |          |
| 60.50  | NEW SPOT ELEVATION                                                    | ---        | EXISTING             |          |
| ---    | RIGHT OF WAY LINE                                                     | ---        | EXISTING             |          |
| ---    |                                                                       | TG         | TOP OF GRADE         |          |
| ---    |                                                                       | TMH        | TOP MANHOLE          |          |
| ---    |                                                                       | FG         | FINISH GRADE         |          |
| ---    |                                                                       | FL         | FLOWLINE             |          |
| ---    |                                                                       | BC         | BACK OF CURB         |          |
| ---    |                                                                       | TC         | TOP OF CURB          |          |
| ---    |                                                                       | CF         | CURB FACE            |          |
| ---    |                                                                       | INV.       | INVERT               |          |

## FIRE FLOW:

1. BUILDING AREAS DESCRIPTION	APPROX. AREA
MEDICAL OFFICE BUILDING (M.O.B.) (PH. 1)	100,000
(ULTIMATE):	207,000

- HEIGHT: 6 STORES, 100' MAX.
- SPRINKLER SYSTEM: YES
- FIRE FLOW: 1,750 GPM @ 30 PSI RESIDUAL

Avoid cutting underground utility lines. It's costly.

Call before you Dig.

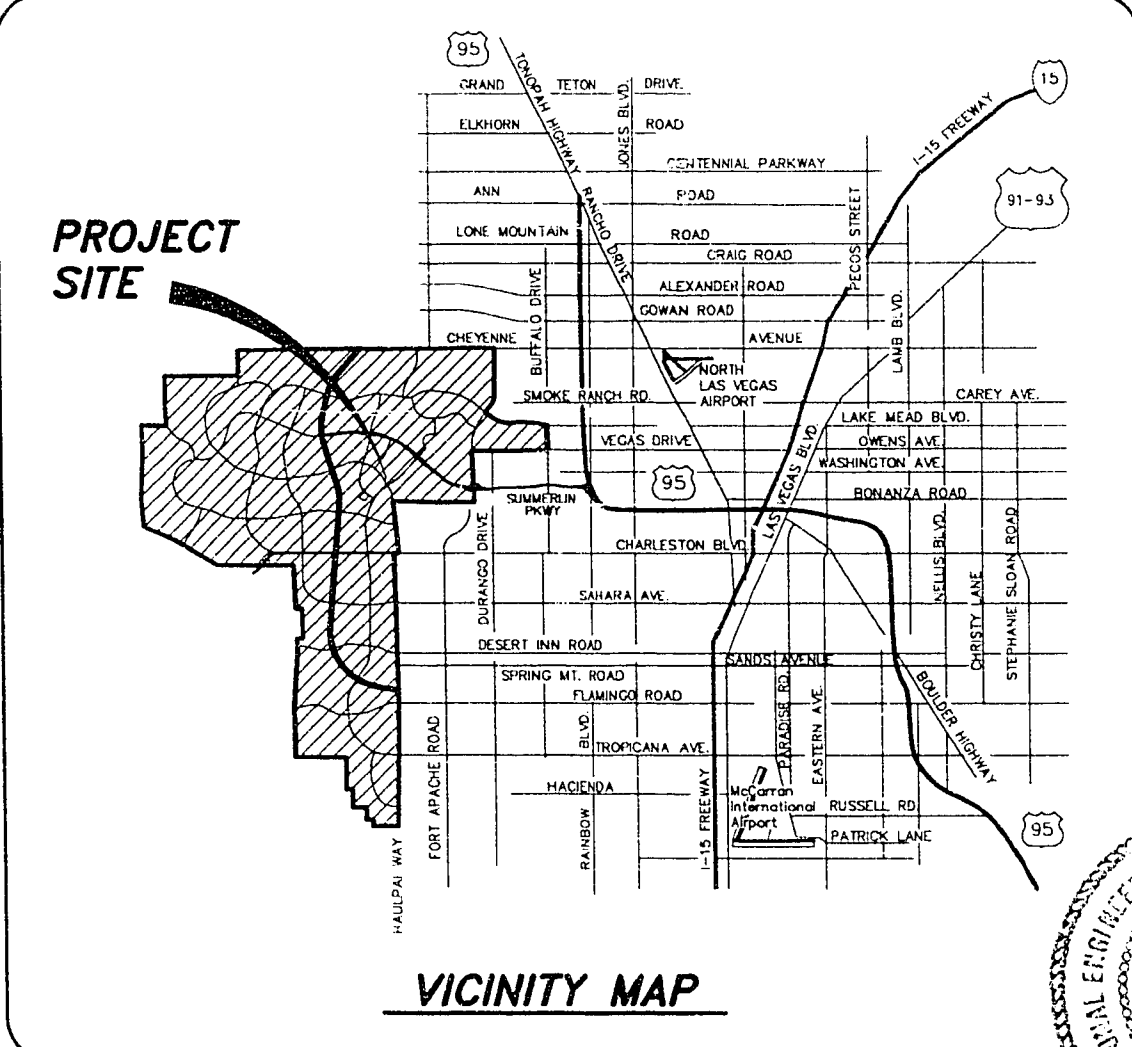
1-800-227-2600

UNDERGROUND SERVICE ALERT (USA)

## DEVIATIONS FROM STANDARD:

- MODIFIED "A" TYPE CURB. DETAIL (2) C-12

**NOTE:**  
CONTRACTOR SHALL PROVIDE NECESSARY PRECAUTIONS FOR EROSION CONTROL, AND PROVIDE CLEANUP OF PERIMETER STREETS RESULTING FROM CONSTRUCTION.



## BASIS OF BEARING

N 01°12'43" E IS BASED ON THE NEVADA STATE GRID SYSTEM (EAST ZONE) AS DETERMINED FROM THE TRIANGULATION POINTS "RED ROCK" TO "LOVE MOUNTAIN".

## BENCHMARK

CHISEL "4" IN THE TOP OF CURB AT END OF CURB ON WEST SIDE OF DURANCO. 250' SOUTH OF WESTCLIFF. ELEV. PER CITY OF LAS VEGAS DATUM = 2610.16

## LEGAL DESCRIPTION

THE CROSSING AT SUMMERLIN VILLAGE 8 PARCEL H/1 A COMMERCIAL SUBDIVISION, BOOK 67, PAGE 79, LYING WITHIN SECTION 25, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M. AND WITHIN SECTION 30, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M. CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.

NOTE: (LEGAL IS INTENDED FOR INFORMATION ONLY)

## INDEX OF DRAWINGS

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C-1	COVER SHEET
C-2	GENERAL NOTES AND MISCELLANEOUS
C-3	HORIZONTAL CONTROL PLAN
C-4	ISLAND AND MISCELLANEOUS DETAILS
C-5	SITE GRADING PLAN
C-6	SITE CONSTRUCTION PLAN
C-7	GRADING DETAILS AND SECTIONS I
C-8	GRADING DETAILS AND SECTIONS II
C-9	UTILITY PLAN
C-10	STORM DRAIN - PLAN AND PROFILE
C-11	MEDIAN ISLAND MODIFICATIONS AND DETAILS
C-12	MISCELLANEOUS DETAILS

## DRAINAGE CERTIFICATION

I CERTIFY THAT THE GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT.

JEFFREY J. FREIBERG 8443 9/27/95  
R.P.E. NO. DATE

## APPROVALS

CITY OF LAS VEGAS

DENNIS ANDERSON, P.E. 10.13.95  
CITY ENGINEER DATE  
CITY OF LAS VEGAS, NEVADA

JEFF D. RHOADS, AIA 09.27.95  
CHAIRMAN SUMMERLIN COMMERCIAL/ DATE  
DESIGN REVIEW COMMITTEE

CITY OF FIRE DEPARTMENT 9-29-95  
DATE

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT 9-29-95  
DATE

DESCRIPTION

REV. DATE

RECOMMENDED BY: JEFFREY J. FREIBERG, CIVIL ENGINEER, P.E.

DATE: 9/27/95

UNIVERSAL HEALTH SERVICES, INC.

SUMMERLIN MEDICAL CENTER

PHASE I IMPROVEMENTS

GENERAL NOTES AND MISCELLANEOUS

D.R.K.

939.012H SUM-NOTE-DWG

107-02402