

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 #3944. AUTHORIZED HYDRANTS FOR THIS PROJECT ARE:
 - KENNEDY GUARDIAN
 - MUELLER A-423 CENTURIAN
 - CLOW MODEL #248 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 CENTERLINE OF STREET ADJACENT TO FIRE HYDRANT AS REQUIRED IN ORDINANCE #3944 TO IDENTIFY THE FIRE HYDRANT LOCATIONS.
- CALL THE LAS VEGAS FIRE 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 HYDRANTS AND ANY WORK NECESSARY FOR PROTECTION OF HYDRANTS FROM PHYSICAL DAMAGE PER ORDINANCE #3944 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 CONTRACTOR'S SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER PRIOR TO ANY WORK BEGINNING.
- PRIVATE FIRE HYDRANTS SHALL BE PAINTED RED.
- 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 A.N.W.A. APPROVED.
- FIRE HYDRANT SPACING:
 - RESIDENTIAL - 500 FEET UNSPRINKLERED, 1,000 FEET SPRINKLERED
 - COMMERCIAL, INCLUDING MULTI-FAMILY - 300 FEET UNSPRINKLERED, 600 FEET SPRINKLERED.
- WHERE NEW WATER MAINS ARE EXTENDED ALONG STREETS, WHERE HYDRANTS ARE NOT NEEDED FOR PROTECTION OF STRUCTURES, FIRE HYDRANTS SHALL BE SPACED AT MAXIMUM 1,000 FOOT SPACING TO PROVIDE FOR TRANSPORTATION HAZARDS.
- NO FIRE HYDRANT 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.
- TWO SOURCES OF SUPPLY ARE REQUIRED WHENEVER THERE ARE 4 OR MORE HYDRANTS INSTALLED ON A SINGLE SYSTEM.
- NOT MORE THAN 2 HYDRANTS CAN BE OUT OF SERVICE DUE TO A SINGLE MAIN BREAK.
- FIRE APPARATUS ACCESS ROADS SHALL HAVE AN UNOBSTRUCTED WIDTH OF NOT LESS THAN 20 FEET PROVIDED NO PARKING IS ALLOWED, NOT AND NOT LESS THAN 36 FEET IF PARALLEL PARKING IS ALLOWED ON BOTH SIDES. VERTICAL CLEARANCE SHALL BE NOT LESS THAN 13 FEET 6 INCHES.

- 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 UPC 94, SECTION 902.2).
- 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 TURN AROUND AREA. SEE ORDINANCE #3944.
- ACCESS ROADS SHALL BE MARKED BY PLACING APPROVED SIGNS AT THE START OF THE DESIGNATED FIRE LANE. ONE SIGN AT THE END OF THE FIRE LANE AND WITH SIGNS AT INTERVALS OF 100 FEET ALONG ALL DESIGNATED FIRE LANES. SIGNS TO BE PLACED ON BOTH SIDES OF AN ACCESS ROADWAY IF NEEDED TO PREVENT PARKING ON EITHER SIDE. SIGNS TO BE INSTALLED NO HIGHER THAN 10 FEET OR LESS THAN 6 FEET FROM ROADWAY LEVEL. THE CURBS ALONG OR ON THE PAVEMENT OR CEMENT IF CURB IS NOT PRESENT, SHALL BE PAINTED WITH A RED WEATHER RESISTANT PAINT IN ADDITION TO THE SIGNS.
- 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.

TRAFFIC NOTES

- BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY GROUND MOUNTED STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING COUNTY STREETS IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.
- ALL CONSTRUCTION SIGNING, BARRICADE AND TRAFFIC DELINEATION SHALL CONFORM TO THE "NEVADA WORK ZONE TRAFFIC CONTROL HANDBOOK - 1986" AND TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES - 1988".
- IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE COUNTY TRAFFIC MANAGER.
- THE DEVELOPER SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL PERMANENT SIGNS SHOWN ON THE PLANS. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CLARK COUNTY STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGNS SHALL USE TYPE III SHEETING. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH CLARK COUNTY STANDARDS.
- IF A PROPOSED STREETLIGHT STANDARD IS FIELD LOCATED TO WITHIN FIVE (5) FEET OF ANY SIGN SHOWN HEREON TO BE MOUNTED ON A SIGN POST, THEN CHANGE SIGN MOUNTING TO ONE ON THE STREETLIGHT STANDARD.
- ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HEREUNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.
- PRIOR TO CONSTRUCTION, THE STREET SIGN CONTRACTOR SHALL OBTAIN NAMES AND BLOCK NUMBERING FROM THE ZONING DIVISION OF THE DEPARTMENT OF COMPREHENSIVE PLANNING.

Avoid cutting underground utility lines. It's costly.

Call before you Dig
1-800-227-2600

Avoid overhead power line contact

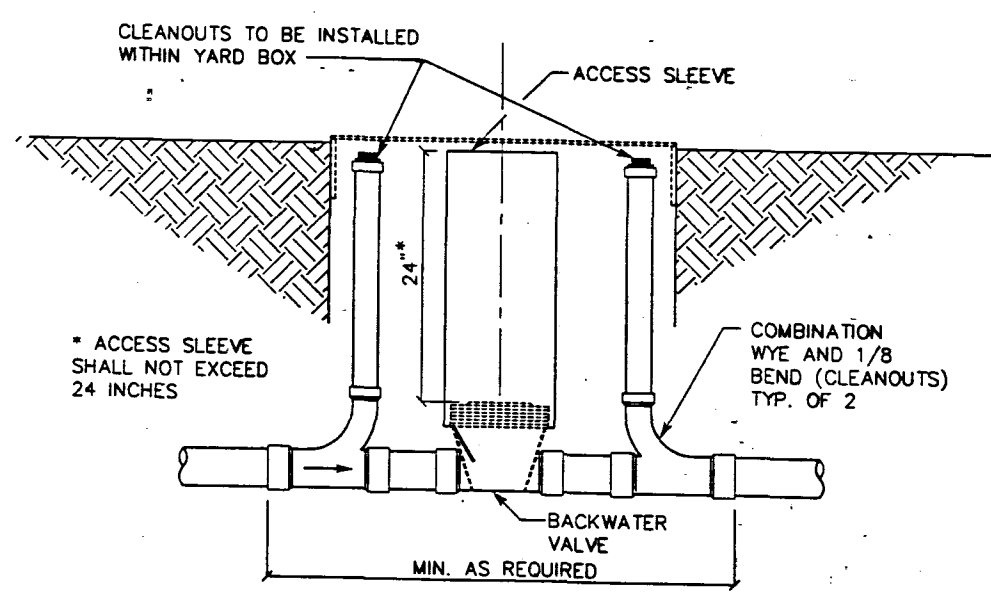
Call before you OVERHEAD
1-702-593-6111

TO SATISFY THE INTENT OF THE 1994 PLUMBING CODE, SUBSECTIONS 710.1 AND 710.6 FOR RESIDENTIAL BACKWATER VALVES, LOCAL BUILDING DEPARTMENTS INDICATE IN AN OCT. 24, 1996 JOINT LETTER OF AGREEMENT:

"DRAINAGE PIPING SERVING FIXTURES WHICH HAVE FLOOD LEVEL RIMS LOCATED BELOW THE ELEVATION OF THE NEXT UPSTREAM MANHOLE COVER OF THE PUBLIC OR PRIVATE SEWER SERVING SUCH DRAINAGE PIPING SHALL BE PROTECTED FROM BACKFLOW OF SEWAGE BY INSTALLING AN APPROVED TYPE BACKWATER VALVE. ALL FIXTURES LOCATED WITHIN THE DWELLING UNIT MAY DISCHARGE THROUGH A SINGLE BACKWATER VALVE AND DOWNSTREAM OF THE BACKWATER VALVE. BACKWATER VALVES SHALL BE LOCATED WHERE THEY WILL BE ACCESSIBLE FOR INSPECTION AND REPAIR AT ALL TIMES. THE ACCESS SLEEVE SHALL NOT EXTEND MORE THAN 24" FROM THE TOP OF THE VALVE COVER TO THE INSIDE EDGE IS USED AND THE MINIMUM DEPTH OF THE BOX IS 12".

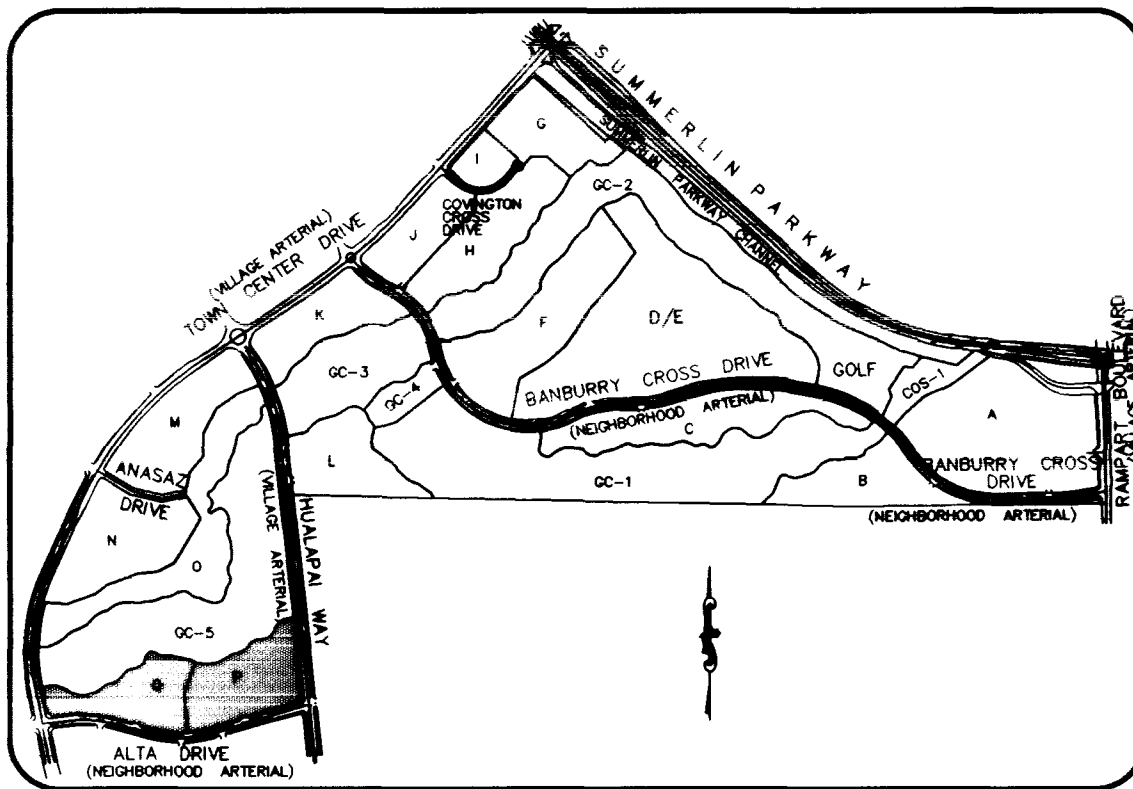
A MAXIMUM OF 36" BELOW GRADE PROVIDED AN ACCESS BOX WITH MINIMUM DIMENSIONS OF 14" IN WIDTH BY 23" IN LENGTH MEASURED FROM INSIDE EDGE TO INSIDE EDGE IS USED AND THE MINIMUM DEPTH OF THE BOX IS 12".

BACKWATER VALVES LOCATED DEEPER THAN 36" SHALL BE MADE ACCESSIBLE BY USE OF A YARD BOX OR VAULT SIZED LARGE ENOUGH TO PERMIT A PERSON TO ENTER THE BOX FOR THE PURPOSE OF ACCESSING THE BACKWATER VALVE."

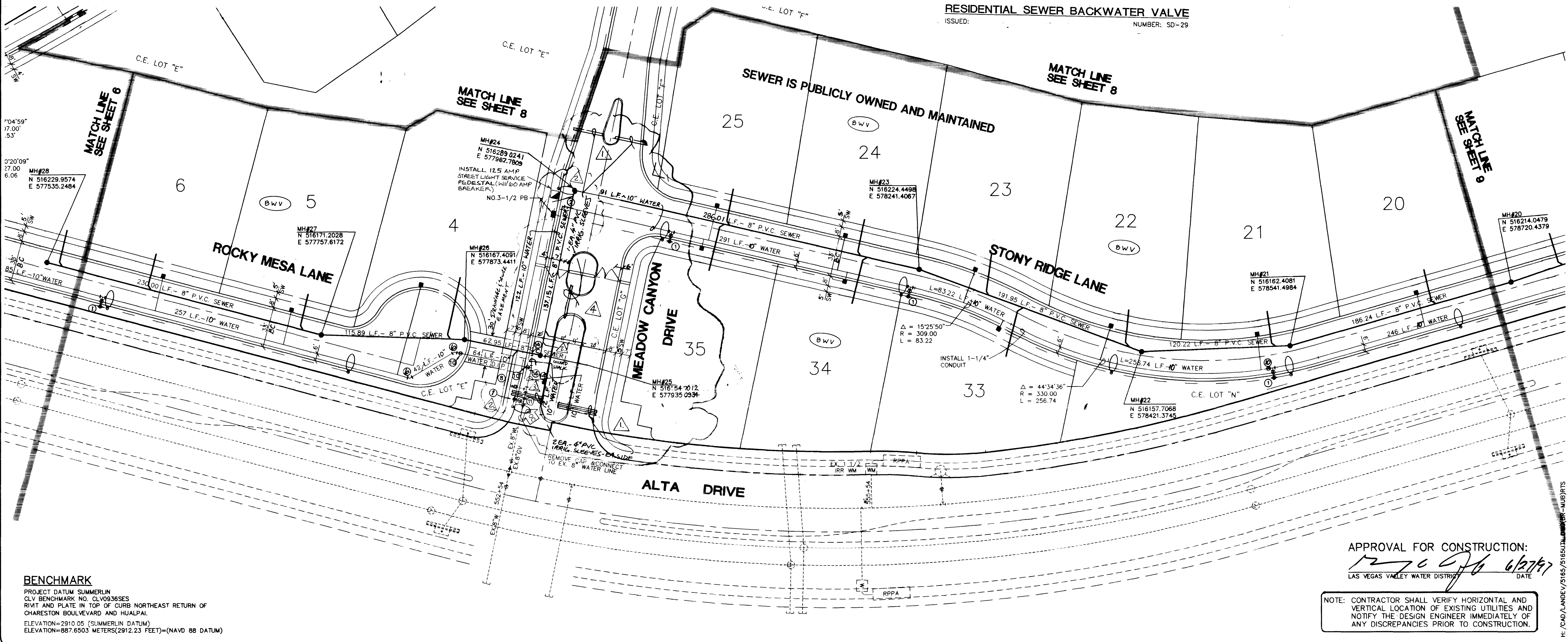
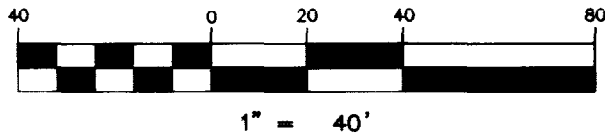


- NOTES:
- MAX. DEPTH WITH BOX - MIN. DIMENSION 14" x 23" x 12" IN DEPTH.
 - VALVE LOCATED DEEPER THAN 36" SHALL BE SIZED TO PERMIT PERSON TO ENTER BOX.
 - REMOVE VALVE ASSEMBLY TO CLEAN OUT BEHIND CLAPPER.

RESIDENTIAL SEWER BACKWATER VALVE
ISSUED: NUMBER: SD-29



GRAPHIC SCALE



BENCHMARK
PROJECT DATUM SUMMERLIN
CLV BENCHMARK NO. CLV09363ES
RIVT AND PLATE IN TOP OF CURB NORTHEAST RETURN OF
CHARESTON BOULEVARD AND HUALPAI.
ELEVATION=2910.05 (SUMMERLIN DATUM)
ELEVATION=887.6503 METERS(2912.23 FEET)=(NAVD 88 DATUM)

APPROVAL FOR CONSTRUCTION:
[Signature] 6/27/97
LAS VEGAS VALLEY WATER DISTRICT DATE

NOTE: CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES AND NOTIFY THE DESIGN ENGINEER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

BRENTWOOD MEMBERS, LLC
047-1-89-98
CITY OF LAS VEGAS, NEVADA

REVISION

NO.	DATE	BY	REVISION
1	3-5-96	MDM	REV. ISLAND LOCATION
2	1-23-96	MDM	ADD 3/4\"/>

PLANNERS • LAND SURVEYORS
2727 SOUTH RAINBOW BOULEVARD
LAS VEGAS, NEVADA 89102-5148 PHONE (702) 873-7550 FAX (702) 362-2597

nevada

MASTER UTILITY PLAN

STAR CANYON ESTATES
PARCEL "P-Q"-SUMMERLIN VILLAGE 3

TITLE PROJECT

SEAL
DREW D. THOMASON
CIVIL
No. 11907
6-27-97

NO. 5165
BY **JOE T./RTS**
DATE **MAY, 1997**
SCALE HORIZ. 1"=40'
VERT. NONE
SHEET **7** OF 15 SHEETS

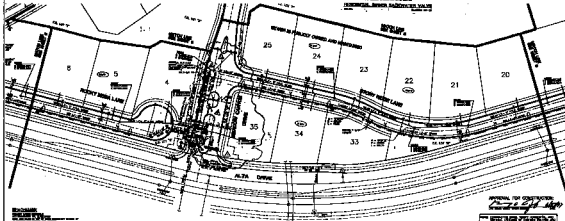
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307Y-4526

CONCRETE PAVEMENT



Call
 1-800-275-5888
Call
 1-800-275-5888



PREPARED BY: [Firm Name]
 CHECKED BY: [Firm Name]
 DATE: [Date]
 CITY OF LAS VEGAS, NEVADA
 DIVISION OF PLANNING & LAND SERVICES
 100 SOUTH MAIN STREET, SUITE 1000, LAS VEGAS, NEVADA 89101
VTB

MASTER UTILITY PLAN
STAR CANYON ESTATES
 PHASE "A" - SUBDIVISION RELEASE 5

1" = 40' SCALE
 DATE: [Date]
 SHEET NO. 7 OF 7
7