

FOR CONTINUATION SEE SHEET UT1

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.

CALL BEFORE YOU DIG

OR

1-800-227-2600

OR

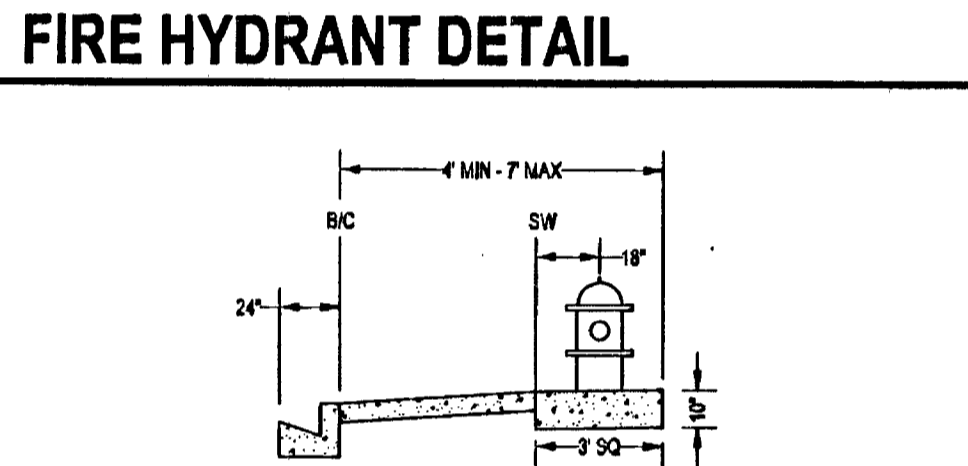
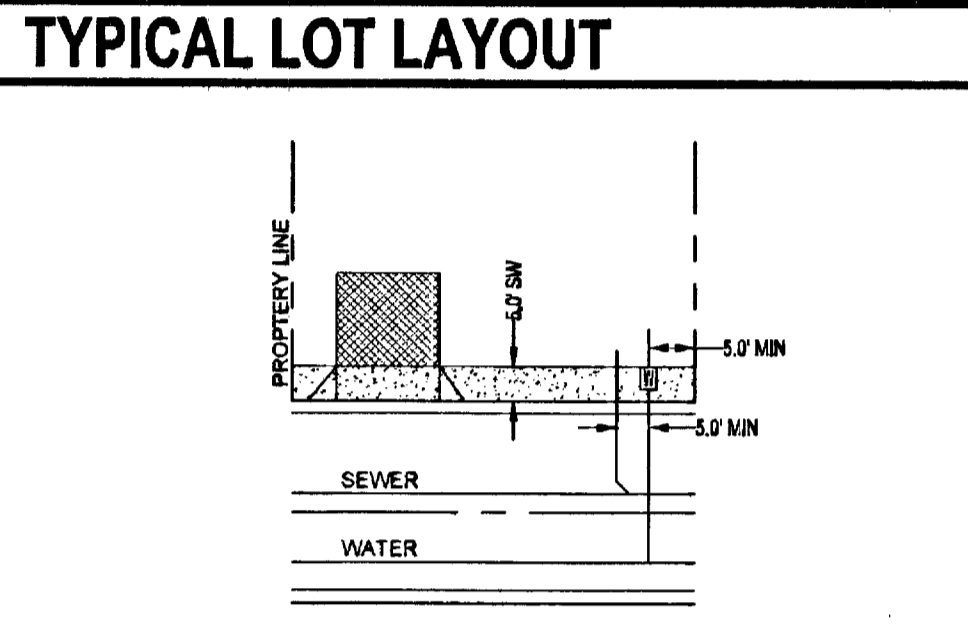
1-702-455-7544

WASTEWATER CALCULATIONS

FACILITY TYPE: SINGLE FAMILY RESIDENTIAL
TOTAL UNITS AT BUILD OUT: 36 HOUSES

AVERAGE FLOW (MGD) = 0.0059
PEAK FLOW (MGD) = 0.021

CALCULATIONS:
AVG FLOW = $36 \times 90,000 \times \frac{1}{365} = 0.0089$ MGD
PEAK FLOW = $0.0089 \times 3.5 = 0.031$ MGD



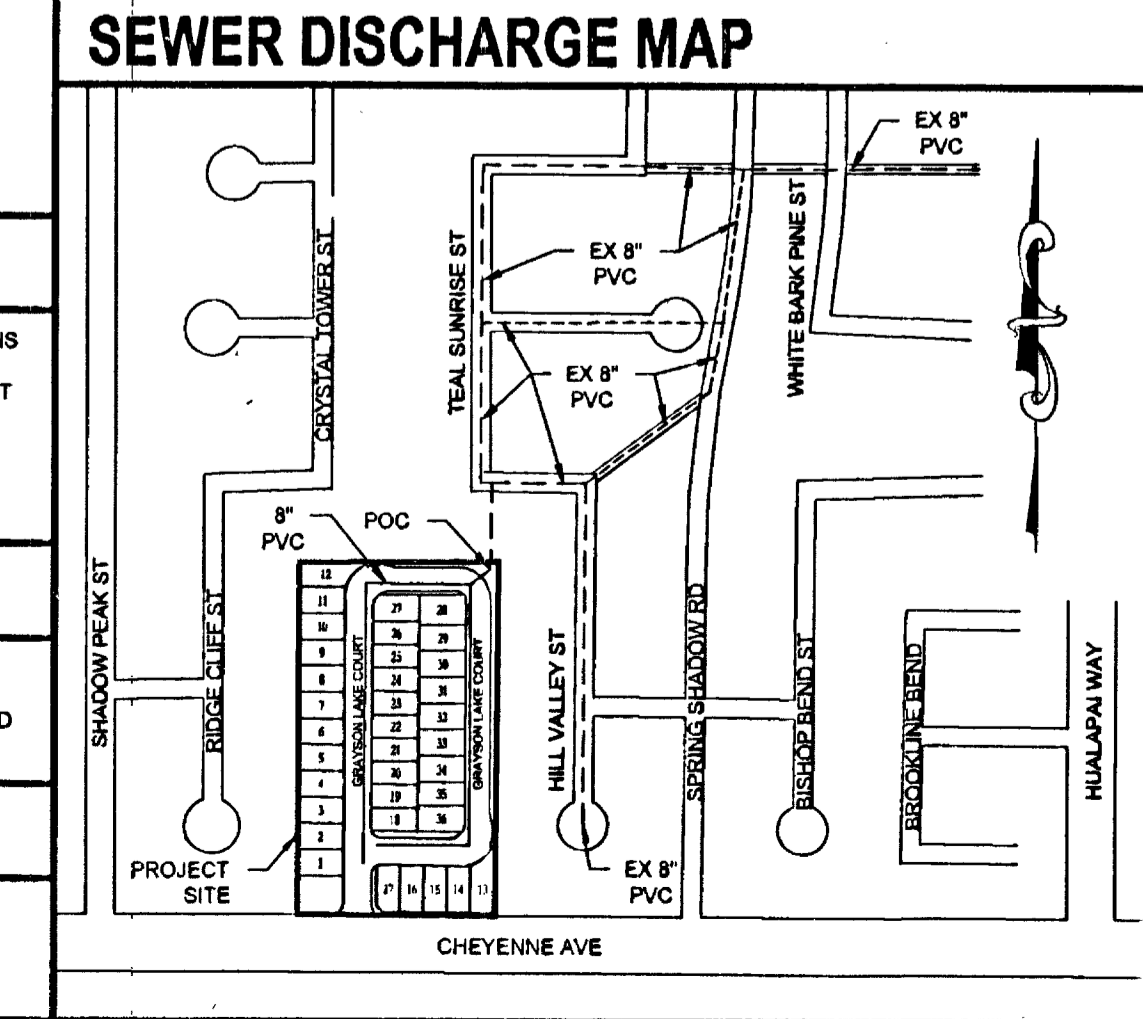
- ### UTILITY NOTES
- ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (UDACS), LATEST EDITION.
 - FIRE, WATER, AND SEWER SERVICES, AS APPROVED ON THIS PLAN, ARE INTENDED SPECIFICALLY FOR THE LOT AND USE SHOWN, AND ARE NOT INTENDED TO SERVICE ADDITIONAL PARCELS OR STRUCTURES WHICH MAY BE CREATED IN THE FUTURE. IN THE EVENT THAT THE PARCELS AND/OR LOTS SHOWN ON THIS PLAN ARE FURTHER DIVIDED TO CREATE ADDITIONAL PARCELS OR LOTS, THE OWNER IS REQUIRED TO PROVIDE SEPARATE FIRE, WATER, & SEWER SERVICES TO EACH.
 - WATER AND SEWER LATERALS SHALL BE INSTALLED A MINIMUM OF 48" APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF 12" ABOVE THE SEWER LATERAL. (REF. UNIFORM PLUMBING CODE)
 - LOCATOR WIRE SHALL BE USED FOR ALL SERVICE LATERALS NOT PERPENDICULAR TO THE MAIN. (TYPICAL)
 - ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
 - ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENTS HAVE BEEN OBTAINED FROM THE OFFSITE OWNER AND GIVEN TO CLARK COUNTY.
 - ALL ONSITE STREETS AND DRAINAGE EASEMENTS ARE TO BE PRIVATELY OWNED AND MAINTAINED.
 - INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING. (UDACS PLT. 15)

ABOVE GROUND UTILITY NOTE

ALL ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF TITLE 18.08 AND 18.09.

- ### CONSTRUCTION NOTES
- INSTALL 12" X 8" TAPPING SLEEVE W/ 8" TAPPING VALVE (UDACS 2.24.01 (B) PLATES 34 & 39)
 - INSTALL 8" X 8" TAPPING SLEEVE W/ 8" TAPPING VALVE (UDACS 2.2401(A) PLATES 34 & 39)
 - 90° BEND (UDACS PLATE NO. 31)
 - REMOVE STUB & CAP & CONNECT TO EX 8" SEWER
 - INSTALL (2) 4" IRRIGATION SLEEVES
 - CONSTRUCT FIRE HYDRANT ASSEMBLY W/ 8" GATE VALVE (UDACS PLT. 40)
 - 1" COPPER WATER SERVICE W/ 3/4" METER (UDACS PLT. 2)
 - 4" SEWER LATERAL WITH MARKER BALL & CURB MARKING (DCSWCS SD-22)
 - 8" GATE VALVE (UDACS PLT. 30 & 39)
 - INSTALL 3/4" IRRIGATION METER W/ 1" RPPA (UDACS PLT. 4 & 8) BRASS BETWEEN MTR & RPPA
 - 45° HORIZONTAL BEND (UDACS PLATE NO. 31)
 - 48" MANHOLE, BASE PRECAST, GRADE RING COLLAR & LID PER DCSWCS STANDARDS
 - CORROSION PROTECTION PER DCSWCS 3.16.8. MANHOLE LID MUST BE WATER TIGHT.
 - SAWCUT AND MATCH EX. AC PAVEMENT PER CCAUSD 503, 500.3 & 500.5
 - RELOCATE 4 INCH COMBINATION AIR VALVE ASSEMBLY PER UDACS PLATE NO. 38
 - 45° VERTICAL BEND (UDACS PLATE NO. 31)

INSTALL CATHODIC PROTECTION TEST STATION PER STANDARDS # 03-08-02, 03-08-03 AND 03-08-10



- ### LVVWD WATERTIGHT SHUTDOWN
- THE DISTRICT CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE FUGITIVE WATER THAT MAY IMPIDE CONSTRUCTION AT ALL TIMES. COORDINATION WITH THE INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRIAL SHUTDOWN.
- CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APPURTENANCES ARE AVAILABLE.
- ### LVVWD EASEMENT NOTES
- TREES, SHRUBS, OR DECORATIVE ROCKS, AND ANY BLOCK WALL OR OTHER FENCE MATERIAL, SHALL BE DESIGNED AND CONSTRUCTED AROUND THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS TO THE VAULT(S), BACKFLOW ASSEMBLIES, AND PIPING FROM THE ADJACENT RIGHT-OF-WAY.
- ### EXISTING SERVICES NOTES
- IF ANY EXISTING SERVICES ARE INCORRECTLY LOCATED OR NOT USED FOR ANY REASON, THE DEVELOPER SHALL ABANDON THE LATERALS AT THE CONNECTION TO THE ACTIVE MAIN IN ACCORDANCE WITH THE UDACS STANDARDS, AND AT THE DEVELOPER'S EXPENSE.

MA#	RLM → FL
#4	8.98
#5	9.40
#6	8.82
#7	9.65

REDUCED PRESSURE PRINCIPLE ASSEMBLY (1")

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 8. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVVWD. 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.

KEY MAP

WATER MAIN JOINT DEFLECTION

PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MAXIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDACS 2.07.04 AND 2.07.02.

FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTING SHALL BE USED.

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 1,500 GALLONS PER MINUTE AT 20 POUNDS PER SQUARE INCH RESIDUAL.

BASED ON:
SQUARE FOOTAGE: 2,800 SQ FT MAX
LARGEST AREA BETWEEN SEPARATE WALLS: N/A
HEIGHT: UP TO 35' MAX
TYPE OF CONSTRUCTION: V-B
SPRINKLER SYSTEM: NO
OCCUPANCY: R-3
ROOF CONSTRUCTION: WOOD
STORIES: 2
EX. 8" PVC WATER - PUBLIC
EX. 4" PE GAS
EX. 16" GAS
EX. TV VALVE
EX. 12" PVC WATER - PUBLIC (XC-6004)
EX. 16" GAS - PUBLIC
EX. 4" PE GAS
EX. 12" PVC WATER - PUBLIC (XC-6004)
EX. 42" X 42" TEE WITH 4" CARRY OUTLET
EX. 4" VALVE TO CARRY OUTLET
EX. GATE VALVE
EX. 16" PVC RECLAIMED WATER - PUBLIC (CO-893)

UTILITY DISCLAIMER NOTE

EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATIONS.

CALL BEFORE YOU DIG: 1-800-227-2600
CALL BEFORE YOU OVERHEAD: 1-702-227-2929

SCALE

1 inch = 30 ft

LEGAL DESCRIPTION

A PORTION OF SOUTH HALF (S 1/2) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 12, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M. CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.

BASIS OF BEARINGS

NORTH 89°32'44" WEST, BEING THE SOUTH LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 12, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M. CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN ON THAT CERTAIN MAP ON FILE IN THE OFFICE OF THE COUNTY RECORDER, CLARK COUNTY, NEVADA, IN FILE #1 OF SURVEYS, AT PAGE 44.

BENCHMARK

RIVET AND PLATE IN TOP OF CURB ON THE SOUTH SIDE OF CHEYENNE AVE - 1/4 MILE WEST OF HUALAPAI WAY
853.856m ± 201.26FT (NAVD 88 DATUM)

APPROVAL BLOCK

DATE: 12/29/14
SCALE: 1"=30'
JOB NO: ADV-13-004
DESIGNED BY: SJT
CHECKED BY: RC
SHEET NAME: UT2
SHEET: 14 OF 16
LVVWD # 122235
CLV # 53802

1st App'd 7-22-14

1st Approved 7/21/15 by Miller

ADAVEN HOMES
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TANEY ENGINEERING
8030 S. JONES BLVD STE 100
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-8844

CHEYENNE WEST OF HUALAPAI
A RESIDENTIAL SUBDIVISION
UTILITY PLAN - SOUTH

REVISIONS

NO.	DATE	DESCRIPTION	APPR.
1	12/29/14	ISSUED FOR PERMIT	SJT