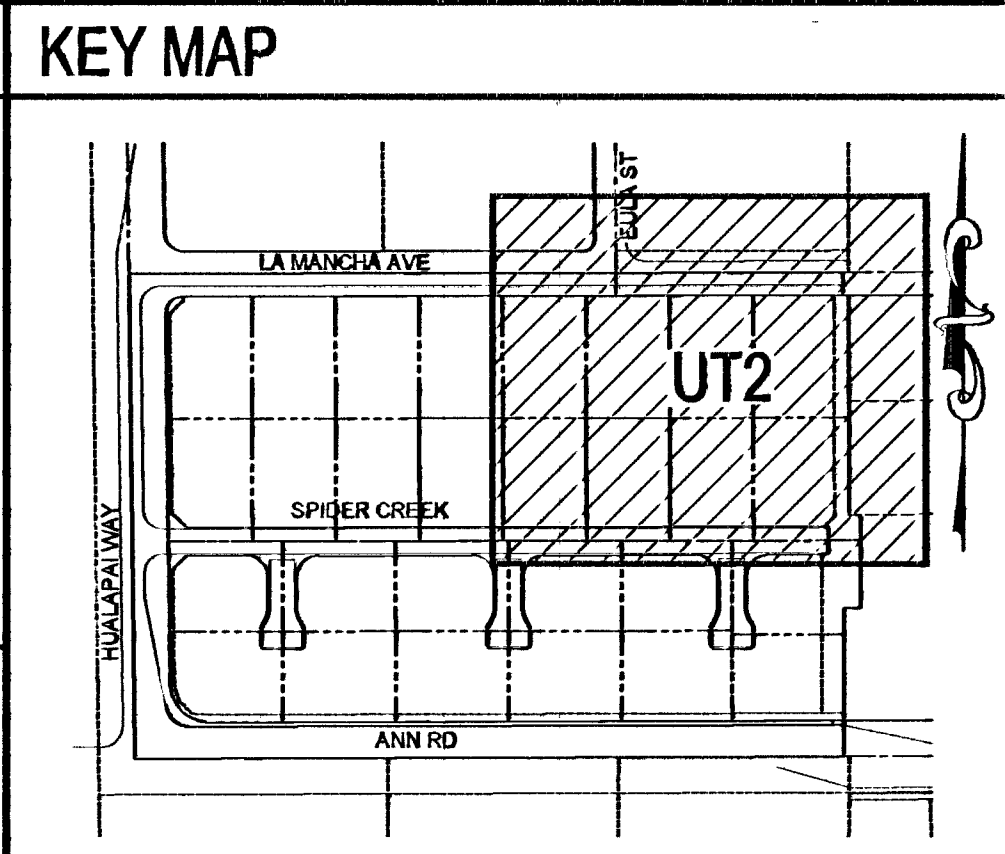
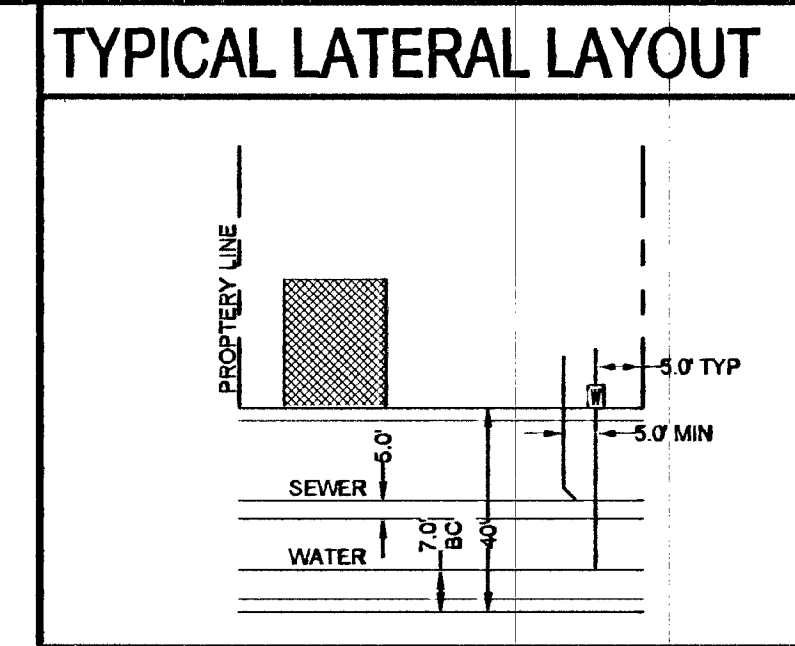
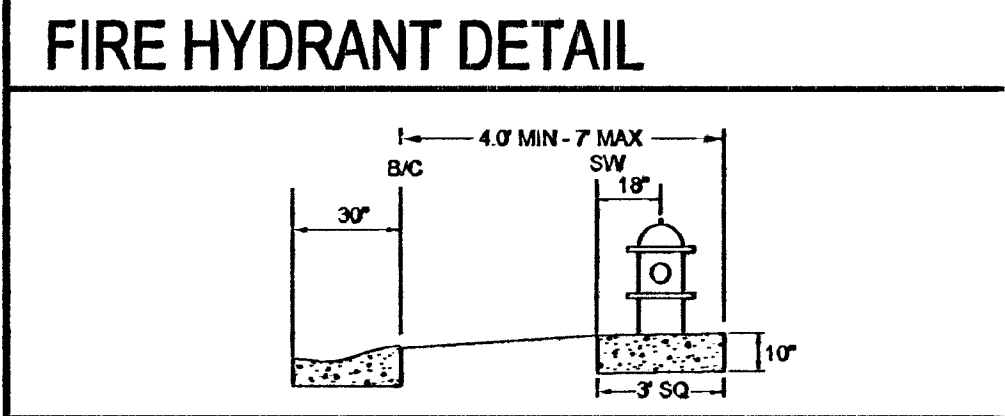


Call Before You Dig
 AVOID HITTING UNDERGROUND
 UTILITY LINES. IT'S COSTLY.
CALL 811
 1-800-277-2600
 AND
 CLARK COUNTY TRAFFIC OPERATIONS
 1-800-455-7544



Call Before You Dig
 AVOID HITTING OVERHEAD
 POWER LINES. IT'S COSTLY.
CALL 811
 1-800-277-2929

Call Before You Dig
 AVOID HITTING UNDERGROUND
 TRAFFIC SIGNAL SYSTEMS
 AND STREET LIGHT SYSTEMS.
 IT'S COSTLY.
Call UnderGround
 1-702-455-7511
 CLARK COUNTY TRAFFIC OPERATIONS
 1-702-229-6611
 LAS VEGAS AREA COMPUTERIZED
 UTILITY SYSTEM



WASTEWATER CALCULATIONS

FACILITY TYPE: SINGLE FAMILY RESIDENTIAL
 TOTAL UNITS AT BUILD OUT: 28 HOUSES

AVERAGE FLOW (MGD) = 0.0069
 PEAK FLOW (MGD) = 0.024

CALCULATIONS:
 $AVG FLOW = 28 \times 90,000 \times \frac{1}{365} = 0.0069 MGD$
 $PEAK FLOW = 0.0069 \times 3.5 = 0.024 MGD$

WATER MAIN JOINT DEFLECTION

(PVC 4\"/>

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 2,000 GALLONS PER MINUTE AT 20 POUNDS PER SQUARE INCH RESIDUAL CONSTRUCTION.
 BASED ON:
 SQUARE FOOTAGE: 5,100 SQ.FT.
 HEIGHT: 35-FT.
 SPRINKLER SYSTEM: NO
 ROOF CONSTRUCTION: TILE
 HIGH PILED COMBUSTIBLE STORAGE: NO

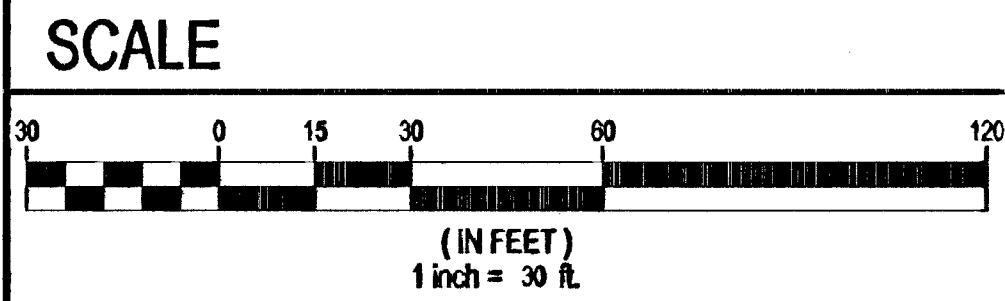
LARGEST AREA BETWEEN SEPARATE WALLS: N/A
 TYPE OF CONSTRUCTION: V-B
 OCCUPANCY: R-3
 STORIES: 2 STORIES
 ESFR SYSTEM: NO

UTILITY NOTES

1. ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (UDACS), LATEST EDITION.
2. 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.
3. WATER AND SEWER LATERALS SHALL BE INSTALLED A MINIMUM OF 48\"/>

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: 1-800-277-2600 CALL BEFORE YOU OVERHEAD: 1-702-227-2929



- ### CONSTRUCTION NOTES
1. REMOVE CAP AND BLOW OFF & CONNECT TO EXISTING MAIN (UDACS PLT. 30)
 2. 8\"/>

LEGAL DESCRIPTION

PARCEL 7:
 A PORTION OF LOT 4 A SHOWN AT PAGE 52 IN FILE 22 OF PARCEL MAPS ON FILE IN THE CLARK COUNTY, NEVADA RECORDER'S OFFICE AND A SHOWN ON THAT RECORD OF SURVEY FOR BOUNDARY LINE ADJUSTMENT AT PAGE 25 IN FILE 161 OF SURVEYS, ON FILE IN THE CLARK COUNTY, NEVADA RECORDER'S OFFICE, LYING WITHIN THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 30, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA

BASIS OF BEARINGS

NORTH 89°48'21\"/>

BENCHMARK

CITY OF LAS VEGAS BM NO. 8190 30SSW8 - CITY OF LAS VEGAS PIN AND ROUND PLATE IN CONCRETE PAD, NORTHWEST CORNER OF ANN RD AND CONQUISTADOR ST., 430' WEST OF CONQUISTADOR ST.

APPROVAL BLOCK

DATE: 4/22/2013
 SCALE: 1\"/>

BACKWATER VALVE (BWV)

LOTS: 2, 3, 4, 6, 7, 8, 11, 13 & 14
 THESE LOTS HAVE DRAINAGE PIPING FEATURES THAT LOWER THAN THE NEXT UPSTREAM SEWER MANHOLE COVER AND SHALL HAVE BACKWATER VALVES INSTALLED PER DC5WCS SD-29.

NO.	DESCRIPTION	DATE

D.R. HORTON
 330 CAROUSEL PKWY
 HENDERSON, NV 89014
 (702) 835-3600 FAX: (800) 808-4691

TANEY ENGINEERING
 6800 S. JONES BLVD STE 100
 LAS VEGAS, NV 89118
 (702) 362-8644 FAX: (702) 362-6233

ANN & HUALAPAI
 A RESIDENTIAL SUBDIVISION

UTILITY PLAN - NORTHEAST

APPROVAL BLOCK
 DATE: 4/22/2013
 SCALE: 1\"/>

ENGINEER'S SEAL
 ROBERT D. CUNNINGHAM
 Exp. 12/31/14
 CIVIL
 No. 15726

DATE: 4/22/2013
SCALE: 1\"/>

JOB NO: DRH-12-030
DESIGNED BY: SF
CHECKED BY: RDC
SHEET NAME: UT2

SHEET: 25 OF 31
307V1064
 HTE#12-48969
 CC (CLV SEWER)