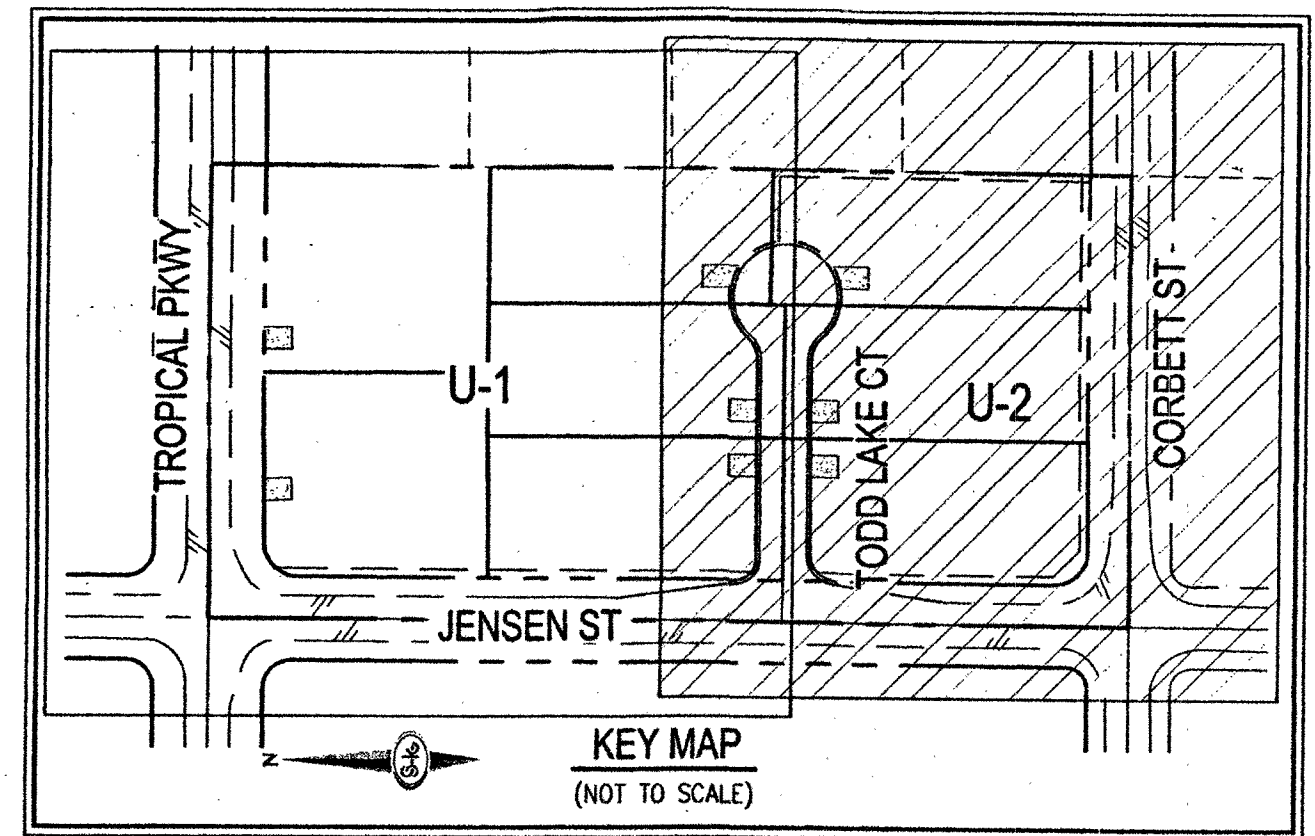
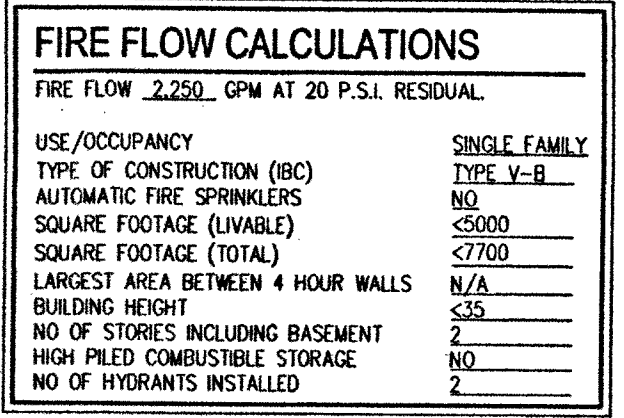
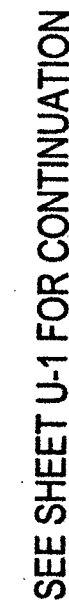




S-I-G
SLATER
HANFAN
GROUP
a Westwood team

5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

CONSTRUCTION NOTES
 2. INSTALL 30" MODIFIED ROLL TYPE CURB PER
 CCAUSD NO. 217.1 IN PRIVATE STREET

SEWER CONSTRUCTION NOTES

- 1 INSTALL 48" DIAMETER SANITARY SEWER MANHOLE PER DCSNCS 50-10, 50-18, AND 50-9 WITH SINGLE 24" LID
- 2 INSTALL 48" DIAMETER SANITARY SEWER MANHOLE WITH CAST-IN-PLACE BASE PER DCSNCS 50-10, 50-18, AND 50-9 WITH SLOPE 2.4% LID
- 3 INSTALL 8" CPVC SANITARY SEWER PIPE (PUBLIC) PER DCSNCS 50-17
- 4 INSTALL 4" CPVC SANITARY SEWER LATERAL PER DCSNCS 50-17, 50-22 AND 50-25
- 5 INSTALL 4" CPVC SANITARY SEWER LATERAL WITH A SLOPE OF 1.5% PER DCSNCS 50-17, 50-22, AND 50-25
- 6 INSTALL 6" CPVC SANITARY SEWER LATERAL WITH A SLOPE OF 1.5% PER DCSNCS 50-17, 50-22, 50-22, AND 50-25
- 7 FIELD VERIFY LOCATION AND CONNECT TO EXISTING SEWER

ESTIMATED AVERAGE DAILY SEWER CONTRIBUTIONS

SEE SHEET MU-1

LATERAL MARKING REQUIREMENTS

LATERALS SHALL BE MARKED ACCORDING TO THE 2009 DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTIONS SYSTEMS. STANDARD DRAWING 601-1 MARKER GULL IS TO BE INSTALLED OVER THE CONNECTION POINT AT THE MAIN OR MANHOLE. A SECOND MARKER IS TO BE INSTALLED AT THE POINT WHERE THE LATERAL CROSSES THE PROPERTY LINE. A VIZUAL MARK IS ALSO REQUIRED. A 3-INCH HIGH "S" STAMPED OR CHISELED INTO THE CONCRETE AT THE POINT DIRECTLY OVER WHERE THE LATERAL PASSES UNDER THE CURB.

WATER NOTES

1	INSTALL 6" PVC WATER PIPE (2860 WP2)
2	INSTALL 8" PVC WATER PIPE (2860 WP2)
3	INSTALL 10" PVC WATER PIPE (2860 WP2)
4	INSTALL 1" COPPER SERVICE W/ 3/4" METER PER UDACS PLATE NO. 1
5	INSTALL FIRE HYDRANT ASSEMBLY W/ 6" GATE VALVE PER UDACS PLATES NO. 30, 39 & 40 (SEE DETAIL "A" ON THIS SHEET)
6	INSTALL FIRE HYDRANT ASSEMBLY W/ 6" GATE VALVE PER UDACS PLATES NO. 30, 39 & 40 (SEE DETAIL "B" ON THIS SHEET)
7	FIELD VEREY INVERT, AND CONNECT TO EXISTING WATERLINE
8	INSTALL 8" x 8" TAPPING SLEEVE W/ 8" TAPPING VALVE PER UDACS PLATES NO. 30, 34, 39 AND SECTION 2.24.01A
9	INSTALL 6" GATE VALVE WITH VALVE BOX PER UDACS PLATE NO. 30 & 39
10	INSTALL 90 DEGREE BEND PER UDACS PLATE NO. 31
11	INSTALL 10" GATE VALVE WITH VALVE BOX PER UDACS PLATE NO. 30 & 39
12	INSTALL 22.5 DEGREE BEND PER UDACS PLATE NO. 31
13	INSTALL 8" x 6" REDUCER PER UDACS PLATE NO. 30
14	INSTALL CAP AND 2" BLOW-OFF VALVE PER UDACS PLATE NO. 36

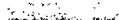
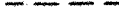
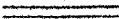
1. ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST COMPLY TO UDACS SECTION 2.22

2. INSTALL PIPELINE MARKER BALLS PER UDACS PLATE NO. 15.

3. WATER MAIN JOINT DEFLECTION PER UDACS WATERFIRE FOR C900 AND 2.07.03 FOR DIP.

4. CONTROLLED LOW STRENGTH MATERIAL (CSM)
PROTECT WATER MAINS IN PLACE WATER MAINS ARE ABOVE A STORM DRAIN OR SEWER WHERE COMPACTION REQUIRES UNDER A WATERLINE CONTROLLED, BUT BACKFILL STRENGTH WITH CLASS 1 CONTROLLED LOW STRENGTH MATERIAL (CSM) TO THE SPRINGLINE OF THE WATERLINE. THIS REQUIREMENT IS FOR STRUCTURAL SUPPORT ONLY. ADDITIONAL HEALTH REGULATIONS MAY APPLY PER UDACS 2.22.

UTILITY LEGEND

	WATCHLINE
	BOUNDARY LINE
	STREET CENTERLINE
	RIGHT-OF-WAY
	EASEMENT LINE
	PROPERTY LINE
	PROPOSED CURB AND GUTTER WITH PRIVATE, ROADWAY EASEMENT AT BACK OF CURB
	EXISTING CURB AND GUTTER
	WATER PIPE FITTING
	WATER GATE VALVE
	FIRE HYDRANT
	REFLECTIVE RAISED PAVEMENT MARKERS
	SANITARY SEWER MANHOLE
	SANITARY SEWER FLOW DIRECTION
	WATER POINT OF CONNECTION
	SEWER POINT OF CONNECTION
	INSTALL PRESSURE REDUCING VALVE

SEE SHEET C-3 FOR QUANTITIES AND ABBREVIATIONS

CLARK COUNTY FIRE DEPT. APPROVAL

BY: [Signature] DATE: 3/8/19

#FP18-11185

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS. FIRE FLOW 2,250 GPM AT 20 P.S.I. RESIDUAL.

APPROVED FOR CONSTRUCTION

James H. [Signature]

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT No. 135041 FIRST APPROVED DATE: 3-18-19

LIVID APPROVED FIRE FLOW 2,250 GPM AT 20 PSI RESIDUAL

MAXIMUM AVAILABLE FIRE SPRINKLER FLOW N/A GPM

BASIS OF BEARING

NORTH 00°39'20" EAST, BEING THE BEARING ON THE EAST LINE OF THE SOUTHWEST QUARTER (SW1/4) OF SECTION 30, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN FILE 122, PAGE 74 OF PARCEL MAPS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

BENCHMARK

BENCHMARK NUMBER: 1C90 3055

PIVOT AND SQUARE ALUMINUM PLATE IN A 4" X 4" CONCRETE ELECTRIC PAD
AT 9620 EL CAMPO GRANDE AVENUE, 30° NORTH AND 170° WEST OF
GRAND CANYON DRIVE AND EL CAMPO GRANDE AVENUE.

ELEVATION = 2655.329 FEET, 809.346 METERS
N.A.V.D. 88 DATUM

PER THE CLARK COUNTY VERTICAL CONTROL V.2003

FOR ALL DRY UTILITY CROSSINGS

1. MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING
2. MAINTAIN MINIMUM 3' PARALLEL SEPARATION
3. ANY EXCAVATION AT BACK OF CURB MUST REMAIN OPEN FOR INSPECTION OF COPPER SERVICE LATERALS, ANY COPPER SERVICE LATERAL KINKED, BENT OR OTHERWISE DAMAGED MUST BE REPLACED FROM THE MAIN TO THE ANGLE METER STOP.

LVVWD EASEMENT NOTE

ALL LVVWD EASEMENTS FOR METER, RPPA, AND FIRE HYDRANT LOCATIONS WILL BE CLEAR OF OBSTRUCTIONS (2% TO MAX 3% SLOPE) AND THE METER, RPPA, AND FIRE HYDRANT WILL BE INSTALLED WITHIN A LEVEL SURFACE PER UDACS PLATES 4, 8, & 40.

GENERAL NOTES

1. THE CONTRACTOR IS TO VERIFY THE ACTUAL FIELD CONDITIONS OF ALL LOTS AND INSTALL SEWER CHECK VALVES WHERE REQUIRED PER THE LATEST EDITION OF THE UNIFORM PLUMBING CODE.
2. FITTINGS SHALL NOT FALL UNDER CURBS, GUTTERS OR SIDEWALK.

DISCLAIMER NOTE

EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXCEPT 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 IN THEIR PROPER LOCATION.

SOUTHWEST GAS APPROVAL

Pamela Kennedy 2-7-2019
SOUTHWEST GAS CORPORATION DATE

The diagram illustrates the typical layout of sewer utilities. It shows a central sewer main with two laterals branching off. Key dimensions and specifications include:

- 1" WATER SERVICE** on the left side.
- 8" PVC SEWER MAIN** running horizontally.
- 8" PVC SEWER MAIN** running vertically on the right side.
- 4" SEWER LATERAL** on the right side.
- 10' MIN. SW** (South) from the vertical main to the property line.
- 18" MINIMUM SEPARATION** between the water service and sewer main.
- 2' MIN** separation between the two sewer laterals.
- SEWER LATERALS PER DCSWS 50-22** specification.
- Notes:**
 - 4" TOP OF AS NOTED OTHERWISE (SEE PLANS)
 - 6" TOP (4" MIN) OR AS NOTED OTHERWISE (SEE PLANS) STATION ON PLANS
 - 4" TOP OF AS NOTED OTHERWISE (SEE PLANS) STATION ON PLANS
 - 6" TOP (4" MIN) OR AS NOTED OTHERWISE (SEE PLANS) STATION ON PLANS
 - 4" TOP OF AS NOTED OTHERWISE (SEE PLANS)

TYPICAL UTILITY LOCATION

UNLESS OTHERWISE NOTED (SIZES AS NOTED ON PLANS)

NOT TO SCALE

A. FIRE HYDRANT LOCATION

NOT TO SCALE PER UDACS PLATE NO. 40

B. FIRE HYDRANT LOCATION
 NOT TO SCALE PER UDACS PLATE NO. 40

[illegible]

FAST

Call before you
UnderGround
1-702-432-5300
FREEWAY & ARTERIAL SYSTEM
OF TRANSPORTATION (F.A.S.T.)



**AVOID HITTING OVERHEAD
POWER LINES. IT'S
COSTLY.**

**CALL BEFORE
YOU DO
OVERHEAD**

1-702-227-2929

Call before you Dig
AVOID CUTTING UNDERGROUND
UTILITY LINES. IT'S COSTLY.

Call

811

OR

1-800-227-2600

[illegible]

PINNACLE HOMES
GREYHAWK
UTILITY PLAN II

DATE:	02/07/19
DRAFTER:	EMH
DESIGNER:	EMH
CHECKED:	KMB
PROJECT NO.	
PIN1801	

ENGINEER
STATE OF NEVADA
PROFESSIONAL
LICENSED

KEVIN M. BROSS
Exp. 12/31/2020
CIVIL
No. 24572

z/h/m

U-2

SHEET 11 OF 21

PW18-17991

PROJ.#:135041-A QS:125-30-SW

city of Las Vegas Just As-built