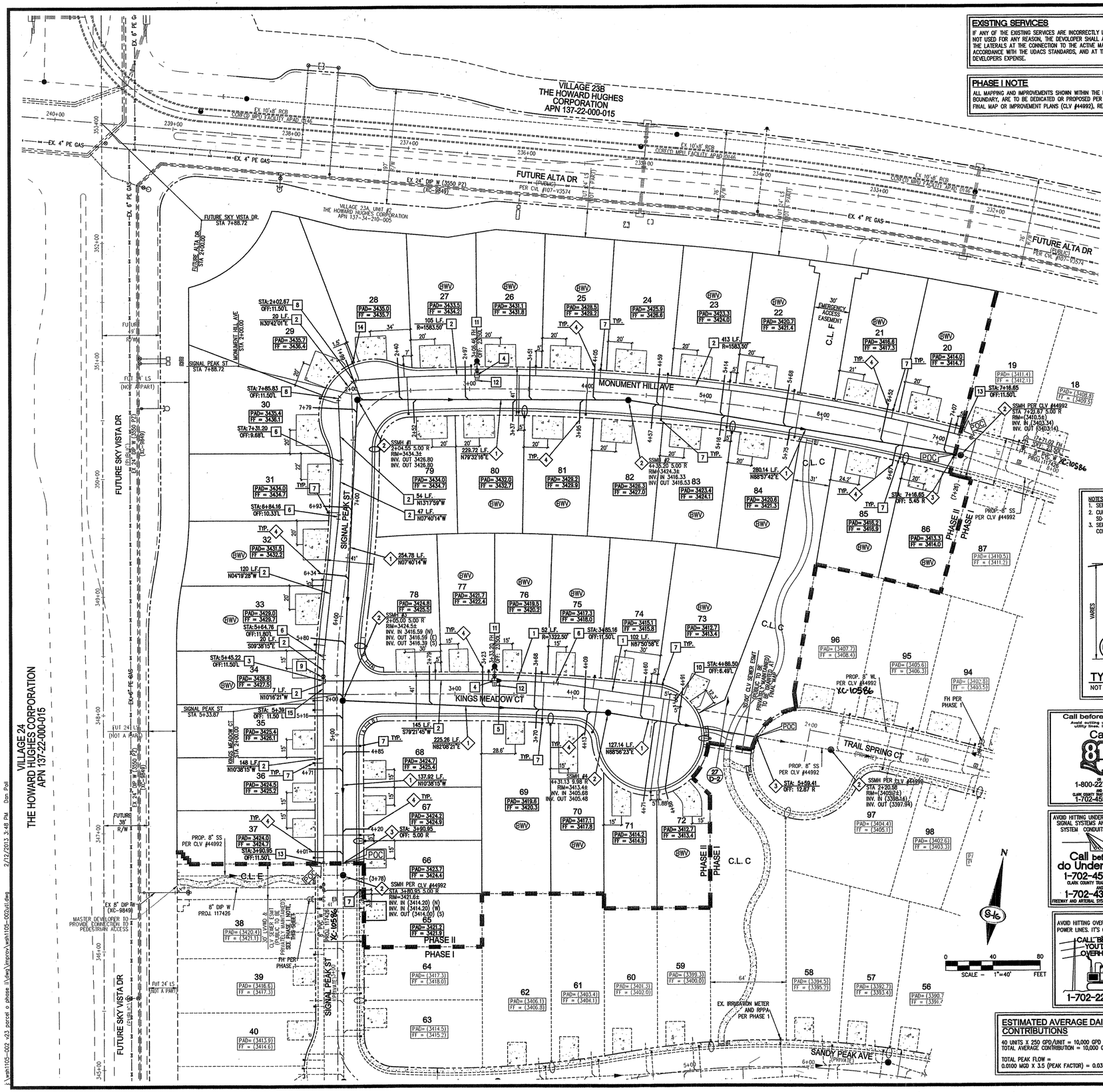


EXISTING SERVICES

IF ANY OF THE 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 DEVELOPERS EXPENSE.

PHASE I NOTE

ALL MAPPING AND IMPROVEMENTS SHOWN WITHIN THE PHASE I BOUNDARY, ARE TO BE DEDICATED OR PROPOSED PER PHASE I FINAL MAP OR IMPROVEMENT PLANS (CLV #44992), RESPECTIVELY

WATER NOTES

1. 6" PVC WATER PIPE (3550 WPZ)
2. 8" PVC WATER PIPE (3550 WPZ)
3. 8" X 8" TEE PER UDACS PLATE NO. 31
4. 8" X 6" TEE PER UDACS PLATE NO. 31
5. 8" X 6" REDUCER PER UDACS PLATE NO. 30
6. 5 DEGREE BEND WITH RESTRAINED JOINTS
7. 1" COPPER SERVICE W/ 3/4" METER PER UDACS PLATE NO. 2
8. 45 DEGREE BEND PER UDACS PLATE NO. 31
9. 8" GATE VALVE WITH VALVE BOX PER UDACS PLATE NO. 30 & 39
10. CAP AND 2" BLOW-OFF VALVE PER UDACS PLATE NO. 36
11. FIRE HYDRANT ASSEMBLY W/6" GATE VALVE PER UDACS PLATE NO. 40
12. INSTALL BLUE REFLECTIVE RAISED PAVEMENT MARKERS
13. FIELD VERIFY LOCATION, REMOVE CAP AND BLOWOFF PER UDACS PLATE NO. 36 AND CONNECT TO EXISTING WATER MAIN
14. 1" COPPER SERVICE W/ 1" METER PER UDACS PLATE NO. 4
15. 1 DEGREE MAXIMUM JOINT DEFLECTION PER UDACS SECTION 2.07

SEWER NOTES

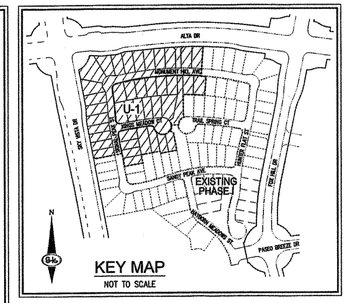
1. 8" PVC SANITARY SEWER PIPE
2. 48" DIAMETER SANITARY SEWER MANHOLE PER DCSWCS SD-1A
3. FIELD VERIFY AND CONNECT TO STUB
4. INSTALL 4" SANITARY SEWER LATERAL, PLUG AND 4"x4" POST PER DCSWCS SD-22

SEE SHEET C-2 FOR LEGEND, ABBREVIATIONS AND QUANTITIES

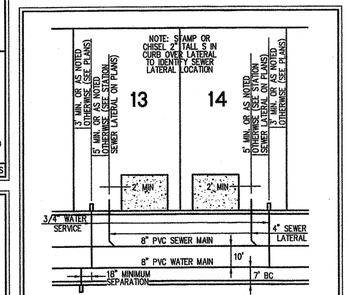
DISCLAIMER NOTE

EXISTING UTILITY LOCATIONS SHOWN HEREON 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 IN THEIR PROPER LOCATION.

SERVICE LATERALS FOR LOTS: 65, 68 AND 88 WILL BE TAPPED ON EXISTING MAIN BY OWNER'S CONTRACTOR UNDER DIRECTION OF THE LVWWD.

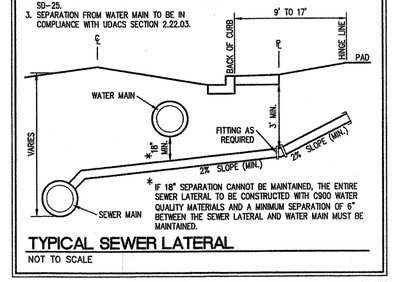


KEY MAP
NOT TO SCALE



TYPICAL UTILITY LOCATION
UNLESS OTHERWISE NOTED (SIZES AS NOTED ON PLANS)
NOT TO SCALE

NOTES:
1. SEE DCSWCS SD-22 & SD-23 FOR SEWER LATERALS.
2. CURB SHALL BE STAMPED WITH AN "S" PER DCSWCS SD-25.
3. SEPARATION FROM WATER MAIN TO BE IN COMPLIANCE WITH UDACS SECTION 2.22.03.



* IF 18" SEPARATION CANNOT BE MAINTAINED, THE ENTIRE SEWER LATERAL TO BE CONSTRUCTED WITH C900 WATER QUALITY MATERIALS AND A MINIMUM SEPARATION OF 6" BETWEEN THE SEWER LATERAL AND WATER MAIN MUST BE MAINTAINED.

TYPICAL SEWER LATERAL
NOT TO SCALE

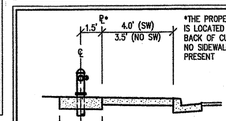
WATER MAIN JOINT DEFLECTION (PVC, 4" – 24")
PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MINIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDACS 2.07.01 AND 2.07.02.

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

GENERAL NOTES

1. REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS AND/OR PAVEMENT MARKINGS), UNDER CLARK COUNTY'S JURISDICTION, THAT ARE DISTURBED, DESTROYED, MOVED OR MODIFIED BY TRENCHING ACTIVITIES TO CLARK COUNTY'S SATISFACTION. ALL MATERIAL USED SHALL MEET CLARK COUNTY'S SPECIFICATIONS OR WILL WILL BE AN APPROVED EQUIVALENT.
2. IN THE EVENT THAT THE TRAFFIC SIGNAL CONDUITS, LOOP DETECTORS OR ASSOCIATED EQUIPMENT ARE DAMAGED BY CONTRACTOR, THE CONTRACTOR WILL HIRE AN IMSA LEVEL II ELECTRICAL CONTRACTOR TO MAKE REPAIRS PER UNIFORM SPECIFICATION NO. 623.6.01.02
3. ALL SEWER/ STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
4. 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.
5. FITTINGS SHALL NOT FALL UNDER CURBS, GUTTERS OR SIDEWALK.
6. WATER LINES TO BE CONSTRUCTED WITH MINIMUM DEPTH OF COVER AS LISTED IN UDACS SECTION 2.08 AND UDACS PLATES NO. 16 & 17, UNLESS AS SHOWN OTHERWISE ON THE PROFILE.
7. NO STRUCTURES, TREES, OR VEGETATION TALLER THAN 3 FEET SHALL BE ALLOWED WITHIN AREAS DESIGNATED AS PUBLIC SEWER EASEMENTS OR CLV SEWER EASEMENTS

INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING PER UDACS PLATE NO. 15



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

APPROVAL
LAS VEGAS FIRE AND RESCUE — DATE 3/4/13

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE 02/25/13 PROJECT NO. 117091
LVWWD APPROVED FIRE FLOW 1,750 GPM AT 20 PSI RESIDUAL

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811 or 1-800-227-2600 AND CLARK COUNTY TRAFFIC OPERATIONS 1-702-455-6000

AVOID HITTING UNDERGROUND TRAFFIC SIGNAL SYSTEMS AND STREET LIGHT SYSTEM CONDUITS. IT'S COSTLY.
Call before you do UnderGround
1-702-455-6000 CLARK COUNTY TRAFFIC OPERATIONS AND 1-702-432-5300 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
CALL BEFORE YOU DO OVERHEAD
1-702-227-2929

BENCHMARK

RIVET & PLATE IN TOP OF CURB IN THE SOUTHEAST CORNER OF DESERT MOON ROAD & DESERT SUNRISE ROAD, 7LVO934SW8A
NAVD 88 ELEV = 1006.289 METERS = 3301.47 FEET

BASIS OF BEARING

NORTH 05°59'55" WEST, BEING THE BEARING OF THE WEST LINE OF SECTION 34, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF ON FILE IN BOOK 143, PAGE 47 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

ESTIMATED AVERAGE DAILY SEWER CONTRIBUTIONS

40 UNITS X 250 GPD/UNIT = 10,000 GPD
TOTAL AVERAGE CONTRIBUTION = 10,000 GPD = 0.0100 MGD

TOTAL PEAK FLOW =
0.0100 MGD X 3.5 (PEAK FACTOR) = 0.0350 MGD

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 1,750 GALLONS PER MINUTE AT 20 P.S.I. RESIDUAL PRESSURE.

USE/OCCUPANCY	SINGLE FAMILY
TYPE OF CONSTRUCTION (IBC)	TYPE V
AUTOMATIC FIRE SPRINKLERS	NO
SQUARE FOOTAGE	<4800
LARGEST AREA BETWEEN 4 HOUR WALLS	N/A
BUILDING HEIGHT	<35
NO OF STORIES INCLUDING BASEMENT	2
HIGH PILED COMBUSTIBLE STORAGE	NO
NO OF HYDRANTS INSTALLED	2

SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

NO.	DESCRIPTION	DATE	BY	APP. DATE	APP.

LAS VEGAS, NV

Woodside Homes — BETTER BY DESIGN

ANDORRA AND CASTILLE - PHASE II
UTILITY PLAN

S 34 T-20 R 59

DATE: 2/12/13
DRAFTER: DSP
DESIGNER: DSP
CHECKED: CAL

PROJECT NO. WSH1105-002

COREY A. LIEBER — Exp. 12/31/2013 — CIVIL — No. 15875 — STATE OF NEVADA — 2-8-13

U-1
SHEET 8 OF 9

CLV #46963

10Y44982-2

23363

\\vegh\105-002 (23 parcel o phase 1\dwg\improv\wsh1105-002ut.dwg 2/12/2013 3:48 PM Don Pell