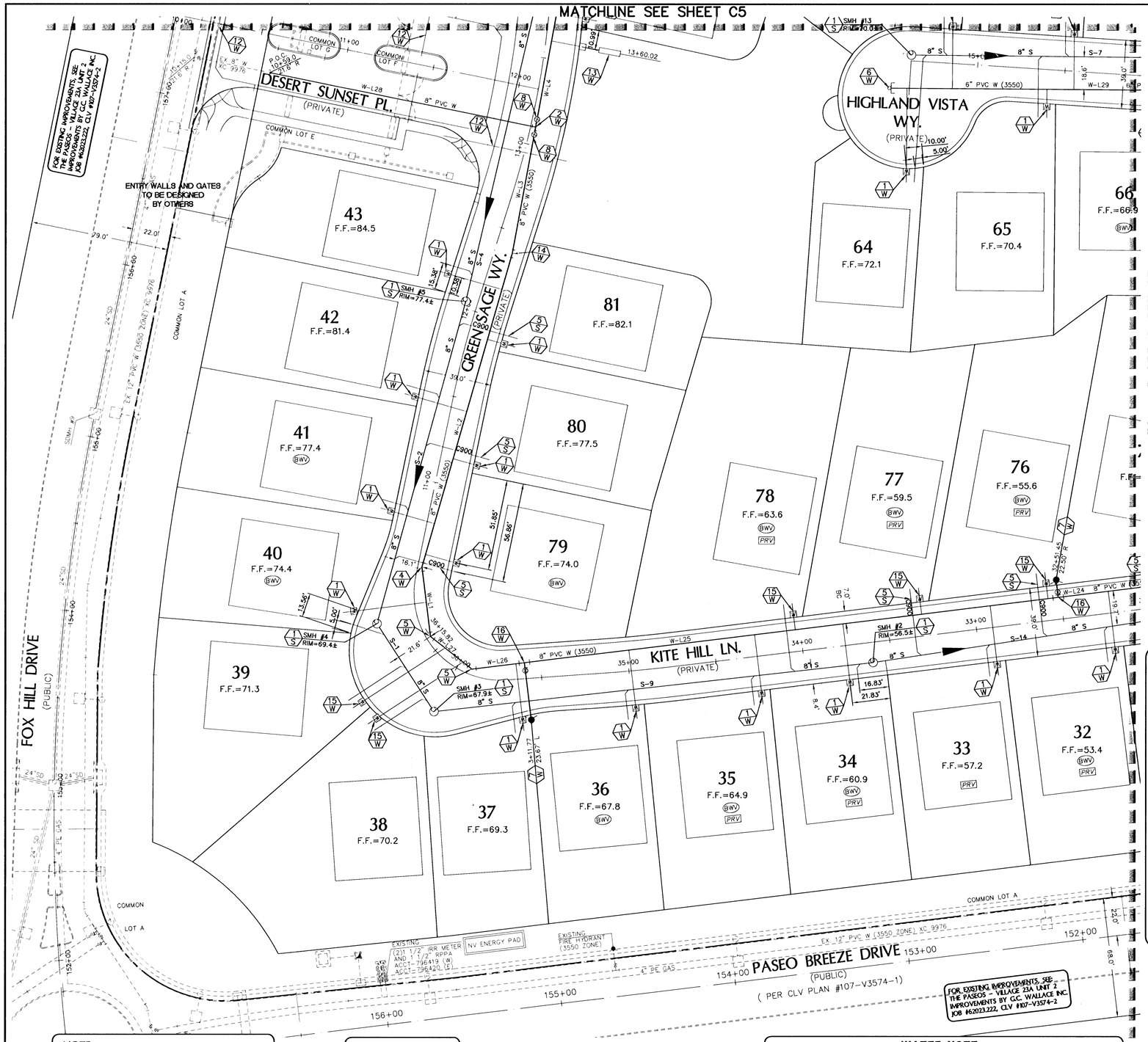
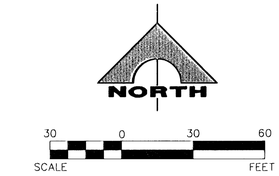
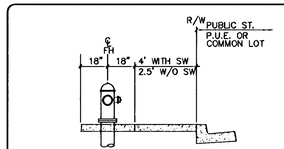




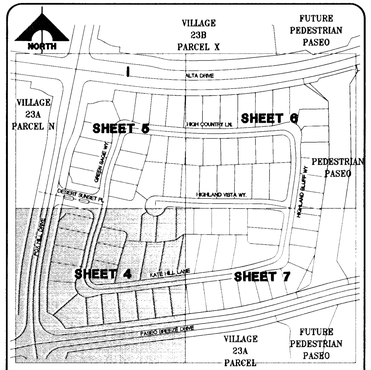
UTILITY LEGEND

EX 8" WL	EXISTING WATER LINE W/SIZE
8" PVC WL	PROPOSED WATER LINE W/SIZE
	1" PROPOSED WATER LATERAL & 3/4" METER PER UDACS PLATE 2 OR 1" METER PER UDACS PLATE 4 AS NOTED
	PROPOSED FIRE HYDRANT W/6" LATERAL & 6" G.V.
EX 8" SS	EXISTING SEWER LINE W/SIZE
8" PVC SS	PROPOSED SEWER LINE W/SIZE
	PROPOSED SEWER LATERAL
	PROPOSED SEWER MANHOLE
	GATE VALVE
8" WL 6" WL	WATER REDUCER
	PROPOSED CAP & BLOW-OFF
	CONCRETE DRIVEWAY
BWV	REQUIRES BACKWATER VALVE
PRV	REQUIRES PRESSURE REDUCER VALVE
	EXISTING SEWER MANHOLE



FIRE HYDRANT LOCATION DETAIL

FIRE HYDRANT TO BE INSTALLED PER UDACS STD. PLATE NO. 40



SHEET INDEX MAP

WATER CONTROL LINE TABLE		
LINE	LENGTH	BEARING
W-L1	40.00'	N7°00'00"W
W-L2	185.84'	N16°05'39"E
W-L3	73.35'	N10°30'00"E
W-L4	120.27'	N10°30'00"E
W-L24	242.38'	S83°00'00"W
W-L25	307.28'	S83°00'00"W
W-L26	30.34'	S83°00'00"W
W-L27	30.00'	N52°00'00"W
W-L28	155.11'	S78°29'05"E
W-L29	169.38'	S89°33'10"E

SEWER CONTROL LINE TABLE		
LINE	LENGTH	BEARING
S-1	59.75	N33°03'26"W
S-2	190.59	S15°24'16"W
S-4	449.00	S13°16'06"W
S-7	422.15	S89°33'10"E
S-9	252.53	N83°34'25"E
S-14	448.73	N81°21'20"E

REFER TO DRAWING C7 FOR SEWER MANHOLE TABLE

CONSTRUCTION NOTES

WATER

1. INSTALL 3/4" WATER METER (2 UDACS)
2. INSTALL 8"x8" TEE (31 UDACS)
3. INSTALL 11-1/4" BEND (31 UDACS)
4. INSTALL 22-1/2" BEND (31 UDACS)
5. INSTALL 45° BEND (31 UDACS)
6. INSTALL CAP W/ 2" BLOW-OFF ASSEMBLY (36 UDACS)
7. INSTALL FIRE HYDRANT ASSEMBLY (40 UDACS)
8. INSTALL 8" GATE VALVE & BOX (30 UDACS) (39 UDACS)
9. INSTALL 5/8" WATER METER W/ 1" RPPA (4 UDACS) (8 UDACS)
10. INSTALL 8" X 6" REDUCER (30 UDACS)
11. REMOVE CAP AND BLOW OFF PER UDACS PLATE NO. 36 & CONNECT TO EX WATER LINE (CONTRACTOR TO VERIFY SIZE, INVERT, AND LOCATION OF EX WATER LINE. IF DISCREPANCY EXISTS, NOTIFY ENGINEER PRIOR TO CONSTRUCTION).
12. INSTALL IRRIGATION SLEEVES PER SUMMERLIN STANDARD DRAWING U-18
13. INSTALL 1" WATER METER W/ 1" RPPA (4 UDACS) (8 UDACS)
14. INSTALL 5° BEND
15. INSTALL 1" WATER METER (4 UDACS)
16. INSTALL 8"x6" TEE (31 UDACS)

SEWER

1. INSTALL 48" DIA. SEWER MANHOLE (SD 1A DCSWCS) (SD 1B DCSWCS)
2. INSTALL 4" SEWER LATERAL & MARKER (SD-22 DCSWCS) (SD-25 DCSWCS)
3. REMOVE PLUG & CONNECT TO EX SEWER LATERAL (CONTRACTOR TO VERIFY SIZE, INVERT, AND LOCATION OF EX SEWER LATERAL. IF DISCREPANCY EXISTS, NOTIFY ENGINEER PRIOR TO CONSTRUCTION).
4. ADJUST TO GRADE
5. LATERAL MUST BE CONSTRUCTED OF WATER SUPPLY QUALITY MATERIALS PER UDACS SECTION 2.22.02 B3

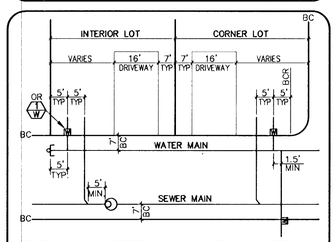
STORM DRAIN

1. INSTALL CLV TYPE "CM2" DROP INLET (SEE PLAN FOR LENGTH)
2. INSTALL NEENAH R-2560-G BEEHIVE DROP INLET

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 1500 GALLONS PER MINUTE AT 20 PSI.

SQUARE FOOTAGE:	LESS THAN 3,600 SQ. FT.
LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS:	N/A
BUILDING HEIGHT:	20 FT. MAX
NUMBER OF STORIES:	2
TYPE OF CONSTRUCTION:	V-NR
OCCUPANCY:	RESIDENTIAL
FULL AUTOMATIC FIRE SPRINKLER SYSTEM:	NO



TYPICAL LATERAL LOCATION DETAIL

UNLESS OTHERWISE SHOWN ON PLAN NOT TO SCALE

BENCHMARK

BM #	DESC.	NAVD 88 DATUM	NAVD 88 DATUM
CLV BM No. D368 3	U.S.C.& G.S. BRASS DISC SET IN ROCK ON THE EAST SIDE OF CHARLESTON BOULEVARD AND SOUTH OF THE RED ROCK DETENTION BASIN.	3246.71 (FEET)	989.599 (METERS)

BASIS OF BEARINGS

NORTH 05° 59' 55" WEST BEING THE BEARING OF THE WEST LINE OF SECTION 34, T 20 S, R 59 E, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF ON FILE IN FILE 91, PAGE 28 OF PARCEL MAPS IN THE CLARK COUNTY RECORDERS OFFICE, CLARK COUNTY, NEVADA.

LEGAL DESCRIPTION

LOT 7, 8, & COMMON LOT "G" OF BLOCK B OF "SUMMERLIN VILLAGE 23A UNIT NO. 2" ON FILE IN BOOK 121, PAGE 12 OF PLATS IN THE COUNTY RECORDER'S OFFICE, CLARK COUNTY, NEVADA LYING WITHIN SECTION 34, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.

NOTE

ALL PRIVATE STREETS ARE P.U.E., PUBLIC SEWER EASEMENTS AND PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.

REDUCED PRESSURE PRINCIPLE ASSEMBLY (3) - 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 LVWD. 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 THE START OF CONSTRUCTION.

WATER NOTE

THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE REDUCING VALVES BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRV'S ARE THE DEVELOPER'S RESPONSIBILITY AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVWD FACILITIES. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

NOTES:

1. SEE SHEET 2 AND 3 FOR CONSTRUCTION NOTES
2. FOR SEWER & STORM DRAIN DESIGN SEE PLAN & PROFILES
3. FOR STREETLIGHTS SEE STREETLIGHT AND TRAFFIC CONTROL PLAN (SHEETS 23-26).
4. INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER UDACS PLATE No. 15.

SEWER AVERAGE DAILY FLOWS = 81 LOTS X 250 GPD/ERU = 20,250 (0.0203 MGPD)

SEWER PEAK FLOWS = 0.0715 MGPD

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 ALLOWABLE 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.

APPROVED FOR CONSTRUCTION

CITY OF LAS VEGAS FIRE DEPARTMENT — DATE 3/2/11

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

PROJECT NO. 116647 DATE: 03/14/11

CLV DRAWING NO. 107V4975

ENGINEER - STATE OF NEVADA PROFESSIONAL JONATHAN D. TULL Exp. 06/30/2012 CIVIL No. 14561

REV	DATE	DESCRIPTION	DATE	AGEN APP	DATE	GOV APP	DATE

PROJECT NO. 62023-980

DESIGN: DRAWN: CHECK: PLOT DATE 02-22-11 PLOT TIME 16:47:40

G.C. WALLACE COMPANIES
ENGINEERS | PLANNERS | SURVEYORS
1555 S. RAINBOW BOULEVARD · LAS VEGAS, NV 89146
T 702.804.2000 F 702.804.2299 · GCWALLACE.COM
LAS VEGAS · SACRAMENTO · RENO

F:\Projects\600\62023-980\DWG\Production\VAD\c004-utility1.dwg
Donte Kelley

THE HOWARD HUGHES COMPANY, LLC

SUMMERLIN VILLAGE 23A PARCEL L ANDALUSIA

UTILITY PLAN I

H-4030!

DRAWING C4

4 OF 31 SHTS

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