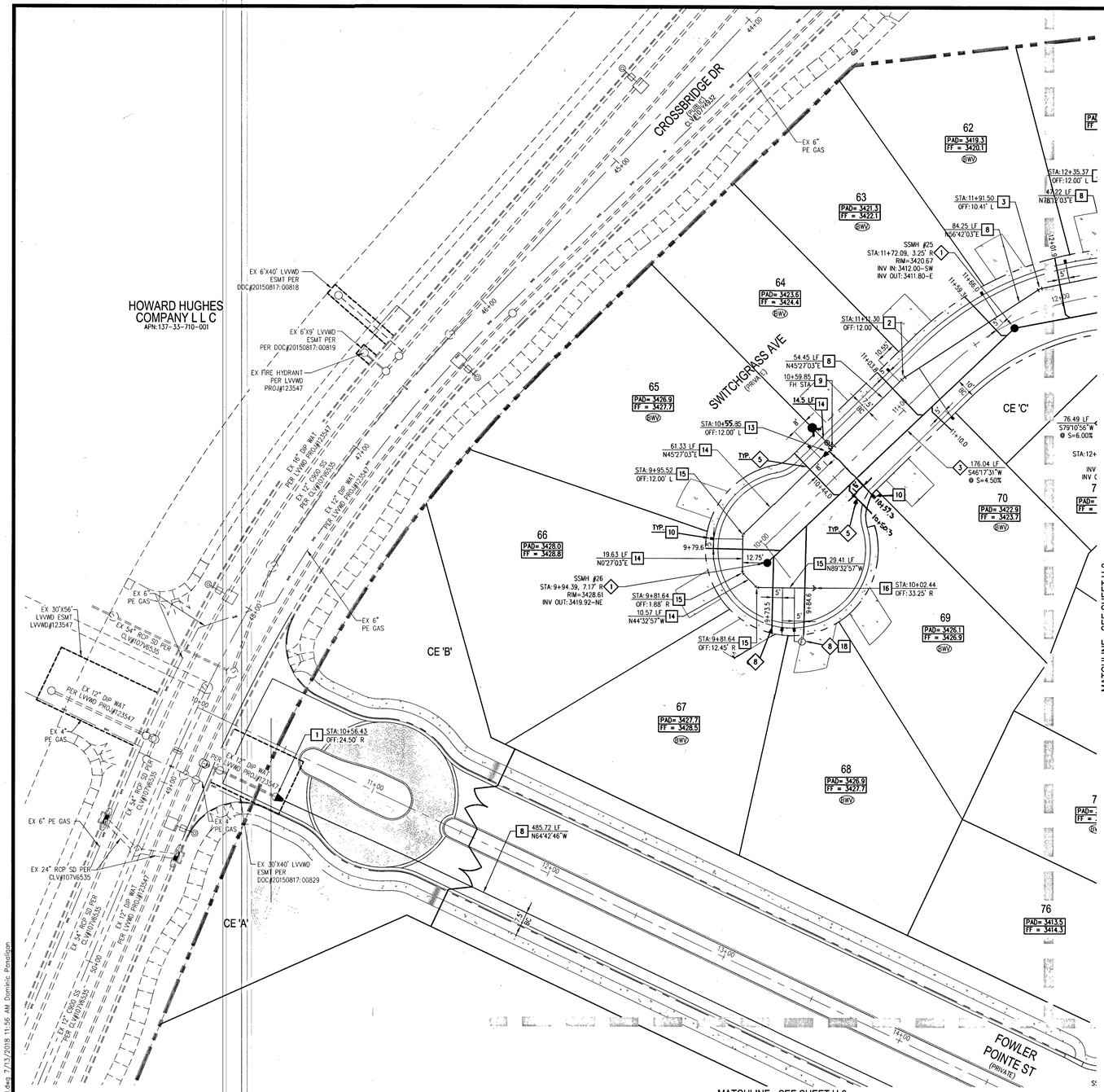


0 30 60
SCALE – 1"=30' FEET

N

S-16

LESS THAN 4800

APPROVAL

LAS VEGAS FIRE AND RESCUE — DATE 7/6/18

ESTIMATED AVERAGE DAILY SEWER CONTRIBUTIONS

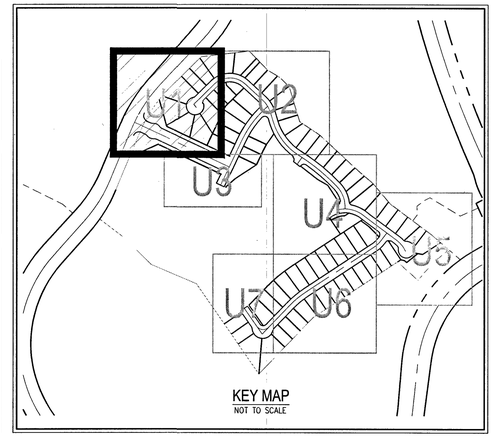
69 UNITS X 250 GPD/UNIT = 17,250 GPD = 0.017 MGD
TOTAL PEAK FLOW=0.017 X 3.65 (PEAK FACTOR)=0.06205 MGD

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENTS IS 4000 GPM @ 20 PSI RESIDUAL.
BASED ON ~~4800~~ 1750 SQUARE FOOTAGE: ~~4800~~ SQUARE FEET
NUMBER OF STORIES/FLOORS: 2
AUTOMATIC FIRE SPRINKLER SYSTEM: NO
ANTICIPATED FIRE SPRINKLER FLOW DEMAND: 0 GPM

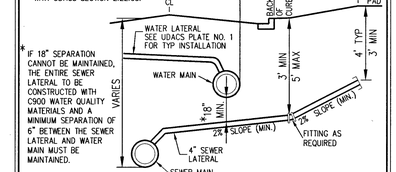
HOMES ABOVE 4800 SQUARE FEET AND/OR HOME'S REQUIRING NFPA 13D SYSTEMS ARE REQUIRED TO OBTAIN LVVWD AND CLV FIRE DEPARTMENT APPROVAL PRIOR TO BUILDING PERMIT ISSUANCE.

OF HYDRANTS PROVIDED: 7



KEY MAP
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 WATER & SEWER LATERAL DETAIL

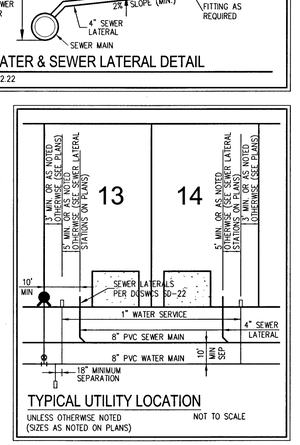
PER UDACS SECT. 2.22

WATER NOTES

1	INSTALL 12" X 8" REDUCER PER UDACS PLATE NO. 30
2	INSTALL 8" 11.25° BEND PER UDACS PLATE NO. 31
3	INSTALL 8" 22.5° BEND PER UDACS PLATE NO. 31
4	INSTALL 8" 45° BEND PER UDACS PLATE NO. 31
5	INSTALL 8" 5° BEND PER UDACS PLATE NO. 31 (MECHANICALLY RESTRAINED)
6	INSTALL 8" CAP WITH BLOWOFF PER UDACS PLATE NO. 36
7	INSTALL 8" X 8" TEE PER UDACS PLATE NO. 31
8	INSTALL 8" PVC WATER PIPE
9	INSTALL 8" x 6" TEE PER UDACS PLATE NO. 31 AND FIRE HYDRANT ASSEMBLY WITH 6" GATE VALVE PER UDACS PLATE NO. 40
10	INSTALL 1" COPPER SERVICE W/ 3/4" METER PER UDACS PLATE NO. 1
11	INSTALL 1" COPPER SERVICE W/ 1" IRRIGATION METER AND 1" RPPA PER UDACS PLATE NO. 4 & 8 AND CURB STOP DETAIL ON SHEET U-3
12	INSTALL 8" GATE VALVE WITH VALVE BOX PER UDACS PLATE NO. 30 & 39
13	INSTALL 8" X 6" REDUCER PER UDACS PLATE NO. 30
14	INSTALL 6" PVC WATER PIPE
15	INSTALL 6" 45° BEND PER UDACS PLATE NO. 31
16	INSTALL 6" CAP WITH BLOWOFF PER UDACS PLATE NO. 36
17	INSTALL 8" DIP WATER PIPE (CLASS 350)
18	INSTALL FLUSHING VALVE ASSEMBLY PER DETAIL ON SHEET MU-1
19	INSTALL 8" CAP WITH THRUST BLOCK PER UDACS PLATE NO. 31
20	INSTALL BLOWOFF ASSEMBLY PER UDACS PLATE NO. 36

SEWER NOTES

1	INSTALL 48" SSMH PER DCSWCS SD-1A THRU SD-4 AND SD-9 (24" SINGLE LID)
2	INSTALL 8" C-900 SS PER DCSWCS SD-1A THRU SD-4 AND SD-9
3	INSTALL 8" PVC SS PER DCSWCS SD-15 AND SD-17
4	MANHOLE SHALL BE CORROSION PROTECTED WITH FIELD APPLIED COATING PER DCSWCS SECTION 3.16.8
5	INSTALL 4" SEWER LATERAL (PRIVATE) PER SD-22, SD-23, & SD-25
6	INSTALL 8" x 8" x 4" WYE (TYPICAL) (C-900 WHERE SHOWN ON PLANS)
7	INSTALL 60" SSMH PER DCSWCS SD-1A THRU SD-4 AND SD-9 (24" SINGLE LID)
8	INSTALL 8" CAP WITH THRUST BLOCK PER DCSWCS SECTION 2.2.5
9	INSTALL SS CLEANOUT WITH TRAFFIC-RATED LID (PER DCSWCS SD-26) IN DRIVEWAY, BACK OF SIDEWALK
9	INSTALL 72" SSMH PER DCSWCS SD-1A THRU SD-4 AND SD-9 (24" SINGLE LID)



TYPICAL UTILITY LOCATION

UNLESS OTHERWISE NOTED (SIZES AS NOTED ON PLANS) — NOT TO SCALE

OWNER/DEVELOPER

RYLAND HOMES NEVADA, LLC
9275 WEST RUSSELL ROAD, SUITE #400
LAS VEGAS, NV 89148
PH: 702-840-2700
FX: 702-840-2760

ENGINEER

SLATER HANIFAN GROUP, INC.
5740 S. ARVILLE STREET, SUITE 216
LAS VEGAS, NV 89118
PH: (702) 284-5300
FX: (702) 284-5399
CONTACT: JERRY SLATER

BENCHMARK

USDA BRASS CAP ON AN IRON PIPE, 140' SOUTHWEST OF TELEPHONE POLE #269941, SOUTHWEST CORNER OF THE U.S. 95/KYLE CANYON TURNOFF.

ELEVATION = 2817.62 FEET, 858.813 METERS
N.A.V.D. 88
PER THE CLARK COUNTY VERTICAL CONTROL LAST REVISED 2003

BASIS OF BEARINGS

SOUTH 00°08'59" WEST, BEING THE BEARING OF THE EAST LINE OF THE SOUTHEAST QUARTER (SE1/4) OF SECTION 12, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.DM., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN BOOK 147, PAGE 71 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT No. 126049 FIRST APPROVED DATE 1-21-18
LVVWD APPROVED FIRE FLOW ~~4000~~ 1750 GPM AT 20 PSI RESIDUAL

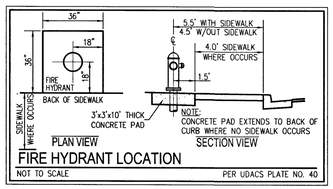
SOUTHWEST GAS APPROVAL

SOUTHWEST GAS CORPORATION — DATE 7/16/18

PAVERS AREA MAINTENANCE NOTE:
MAINTENANCE WORK ON LVVWD FACILITIES LOCATED WITHIN THE AREA OF THE PROPOSED PAVERS MAY INCLUDE THE PLACEMENT OF AN ASPHALT OR CONCRETE PATCH AS APPLICABLE. THE LVVWD WILL NOT REPLACE OR MATCH ANY DECORATIVE SURFACE, LANDSCAPE FEATURE, OR ANY OTHER IMPROVMENTS DISTURBED AS A RESULT OF THE MAINTENANCE ACTIVITIES.

ALL LOTS/LOTS: 26-44, 130-141

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 LVVWD FACILITIES.



FIRE HYDRANT LOCATION

NOT TO SCALE — PER UDACS PLATE NO. 40

PRIVATE STREET ESMT NOTE

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

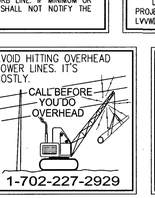
FOR ALL DRY UTILITY CROSSINGS

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.

SEWER CONNECTION NOTE

ONE OR MORE SEGMENTS OF THE DOWNSTREAM SEWER SYSTEM THAT WILL SERVE THIS PROJECT HAS NOT BEEN COMPLETED AND/OR ACCEPTED FOR MAINTENANCE BY THE CITY OF LAS VEGAS. ANY WORK DONE ON THIS PROJECT PRIOR TO THE COMPLETION AND/OR ACCEPTANCE OF THE DOWNSTREAM SEWER SYSTEMS(S) SHALL BE DONE AT THE DEVELOPER'S OWN RISK. THE CITY OF LAS VEGAS RESERVES THE RIGHT TO PREVENT THE PHYSICAL CONNECTION OF THIS PROJECT INTO THE DOWNSTREAM SEWER SYSTEM UNTIL ALL SEGMENTS HAVE BEEN COMPLETED AND ACCEPTED FOR MAINTENANCE, OR UNTIL SUCH TIME AS THEY ARE DEEMED AVAILABLE FOR SERVICE.

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



1-702-227-2929

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'D DATE	APP
3.	REVISE FIRE FLOWS	7/13/18	DNP	7/16/18	BCC

CITY OF LAS VEGAS, NEVADA

GREYSTONE NEVADA, LLC

SUMMERLIN VILLAGE 24 PARCEL D PHASE 1

UTILITY PLAN - I

S 33
T 20S
R 59

DATE: 7/13/18
DRAFTER: DNP
DESIGNER: BCC
CHECKED: BCC

PROJECT NO.
CAL1701-000

PROJ #126049 AGR #116715 QS 137-33-SE

U-1
SHEET 32 OF 41

L18-00808
107Y5083-1

\\cal1701-000 summ village 24 parcel d\dwg\mpox\cal1701-000 ut.dwg 7/13/2018 11:56 AM Domitic Penaloon