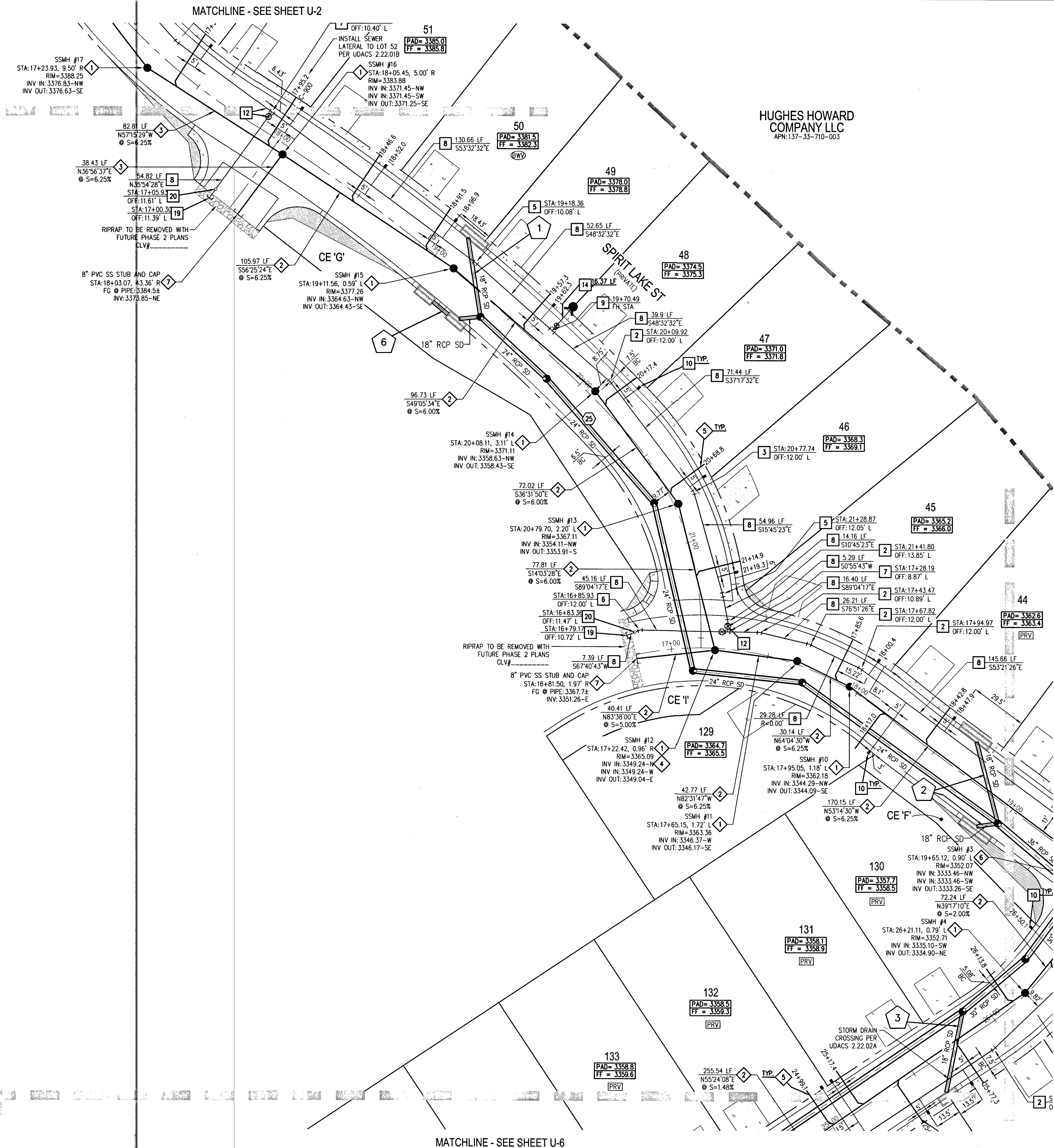
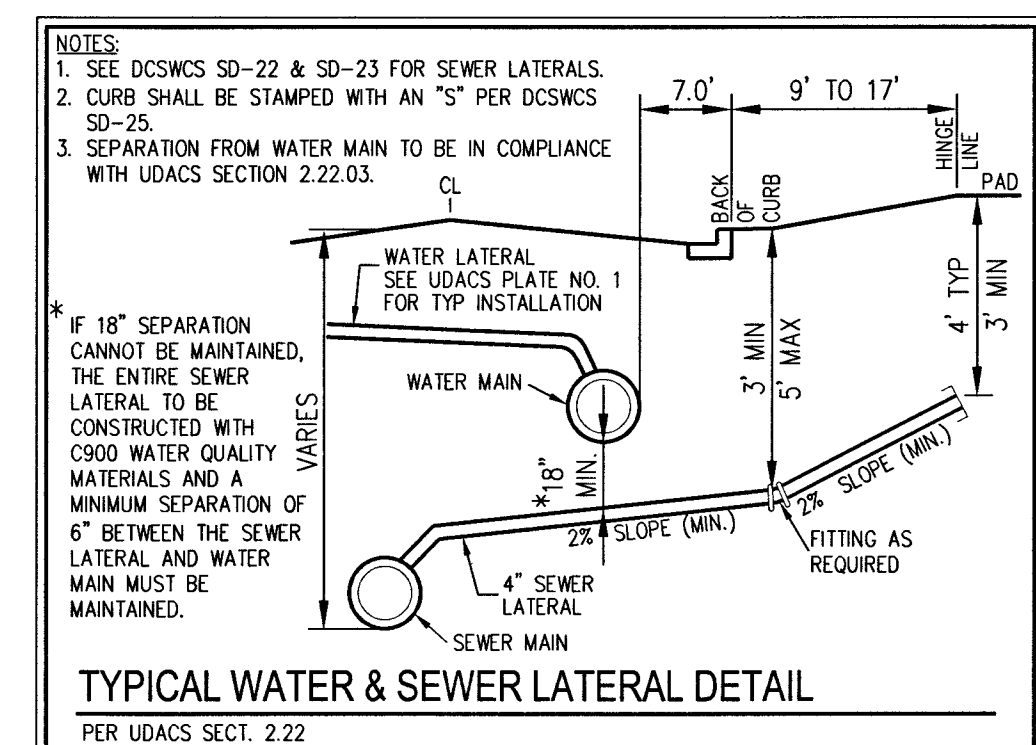
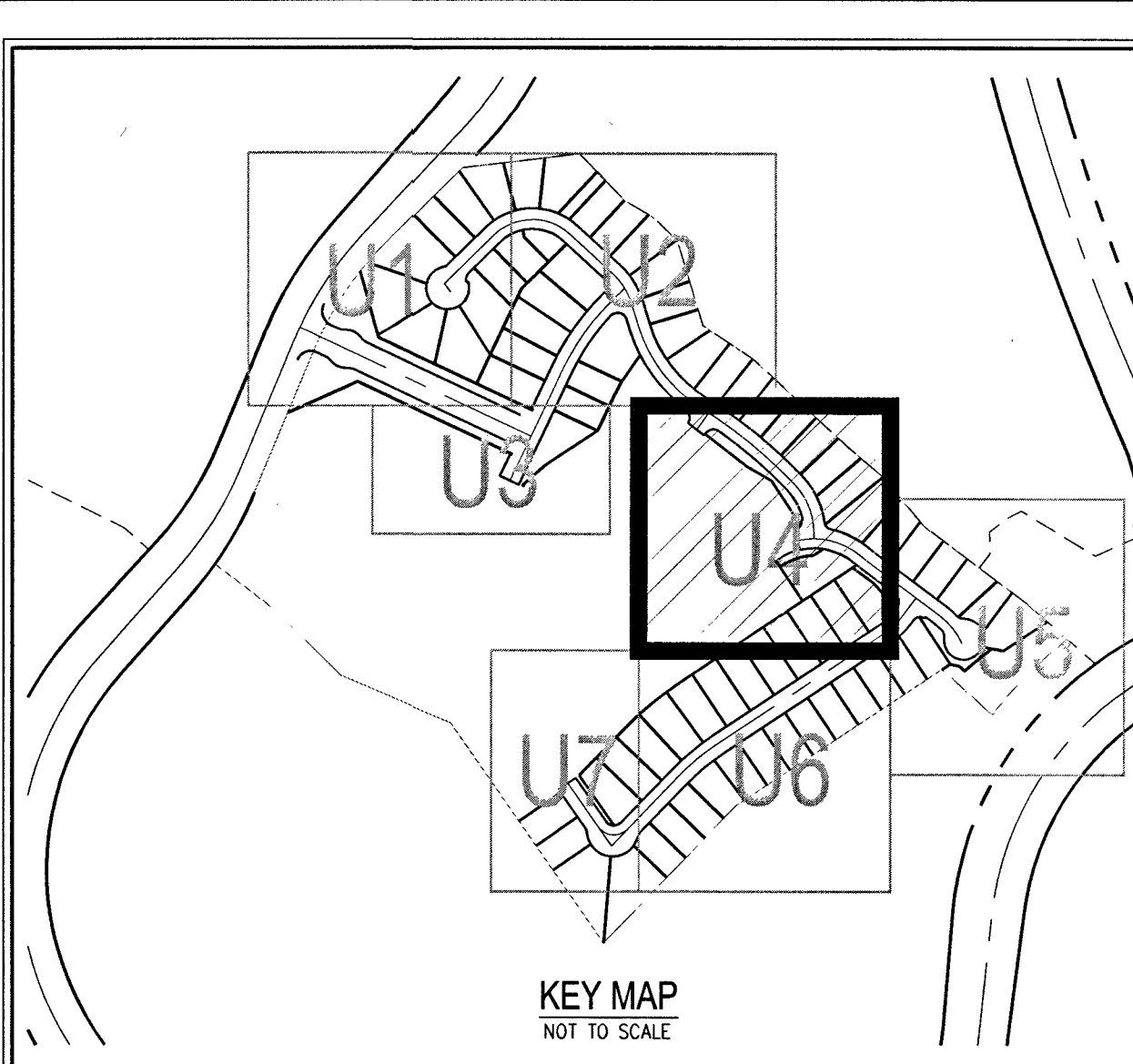




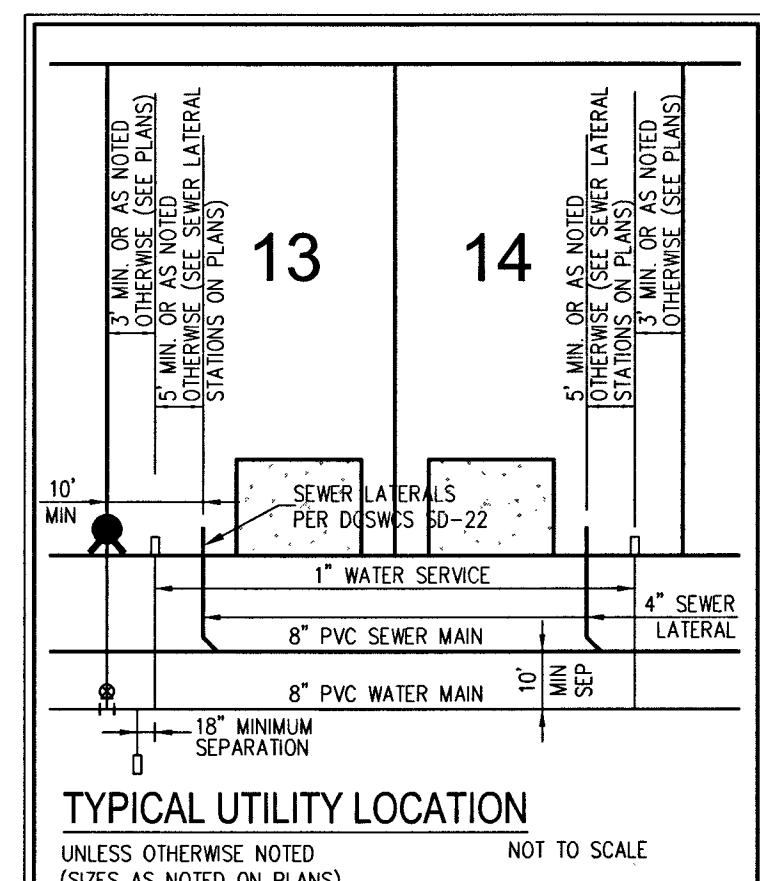
APPROVAL
[Signature]
 LAS VEGAS FIRE AND RESCUE
 7/24/18
 DATE

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 1500 GPM @ 20 PSI RESIDUAL.
 BASED ON:
 SQUARE FOOTAGE: 43600 SQUARE FEET
 NUMBER OF STORIES/FLOORS: 2
 AUTOMATIC FIRE SPRINKLER SYSTEM: NO
 ANTICIPATED FIRE SPRINKLER FLOW DEMAND: 0 GPM
 HOMES ABOVE 4800 SQ. FT. REQUIRES NFPA 13D SYSTEM IF FIRE FLOW AVAILABILITY INSUFFICIENT
 AUTOMATIC FIRE SPRINKLER SYSTEM (NFPA 13D) FOR HOMES WITH SQUARE FOOTAGES GREATER THAN 4,800 SF: NO
 # OF HYDRANTS PROVIDED: 7



- 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 6" 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 5" GATE VALVE PER UDACS PLATE NO. 44
 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 6" 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 W/8" X 4" WYE (TYPICAL) (C-900 WHERE SHOWN ON PLANS)
 6. INSTALL 60" SSMH PER DCSWCS SD-1A THRU SD-4 AND SD-9 (24" SINGLE LID)
 7. INSTALL 8" CAP WITH THRUST BLOCK PER DCSWCS SECTION 2.2.5
 8. INSTALL SS CLEANOUT WITH TRAFFIC-RATED LID (PER DCSWCS SD-25) IN DRIVEWAY, BACK OF SIDEWALK
 9. INSTALL 72" SSMH PER DCSWCS SD-1A THRU SD-4 AND SD-9 (24" SINGLE LID)

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

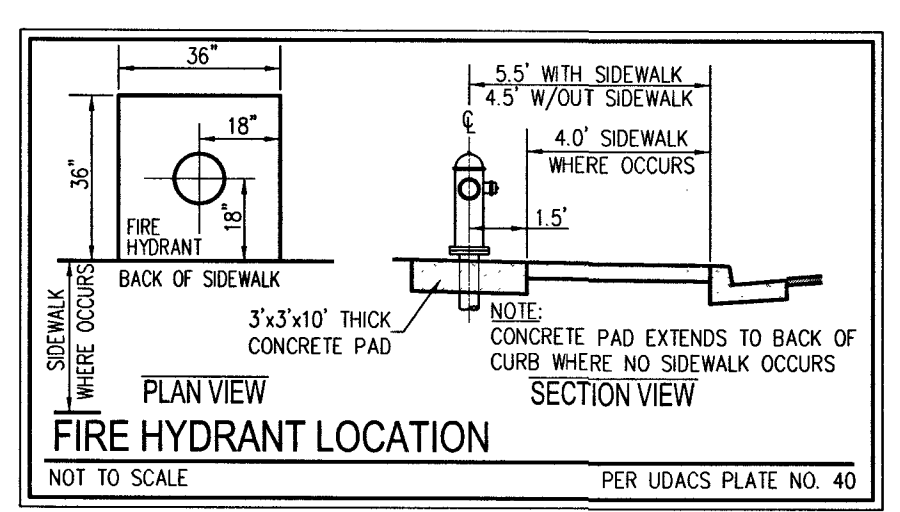
BENCHMARK
 USDA BRASS CAP ON AN IRON PIPE, 140' SOUTHWEST OF TELEPHONE POLE #269941, SOUTHWEST CORNER OF THE U.S. 95/KYLE CANYON TURNOFF.
 ELEVATION = 2817.62 FEET, 858.613 METERS
 N.A.V.D. 88
 PER THE CLARK COUNTY VERTICAL CONTROL LAST REVISED 2003

BASIS OF BEARINGS
 SOUTH 000°59' WEST, BEING THE BEARING OF THE EAST LINE OF THE SOUTHEAST QUARTER (SE1/4) SECTION 12, TOWNSHIP 19 SOUTH, RANGE 59 EAST, N.M. 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
[Signature]
 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
 PROJECT NO. 126049 FIRST APPROVED DATE: 7-31-18
 LVWD APPROVED FIRE FLOW 1,500 GPM @ 20 PSI RESIDUAL

- LEGEND**
1. SEE SDOI #4 & #5 LATERAL PROFILE VIEW ON SHEET PP-12
 2. SEE SDOI #2 & #3 LATERAL PROFILE VIEW ON SHEET PP-12
 3. SEE SDOI #6 LATERAL PROFILE VIEW ON SHEET PP-12
 4. SEE SDOI #10 & #4 LATERAL PROFILE VIEW ON SHEET PP-12

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. PRIVATE ARE THE DEVELOPER'S RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVWD FACILITIES.



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 DOWNSIDE 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 DOWNSIDE SEWER SYSTEM(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 DOWNSIDE SEWER SYSTEM UNTIL ALL SEGMENTS HAVE BEEN COMPLETED AND ACCEPTED FOR MAINTENANCE OR UNTIL SUCH TIME AS THEY ARE DEEMED AVAILABLE FOR SERVICE.

FAST
 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 DIG
 1-702-227-2929

Call before you Dig
 AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
 Call 811
 OR
 1-800-227-2600

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

CITY OF LAS VEGAS, NEVADA

GREYSTONE NEVADA, LLC

SUMMERLIN VILLAGE 24 PARCEL D PHASE 1

UTILITY PLAN - IV

DATE: 7/13/18
 DRAFTER: DNP
 DESIGNER: BCC
 CHECKED: BCC
 PROJECT NO. CAL1701-000

APPROVED FOR CONSTRUCTION
[Signature]
 JERRY SLATER
 7/13/18

U-4
 SHEET 35 OF 41
 118-00808
 107Y5083-1