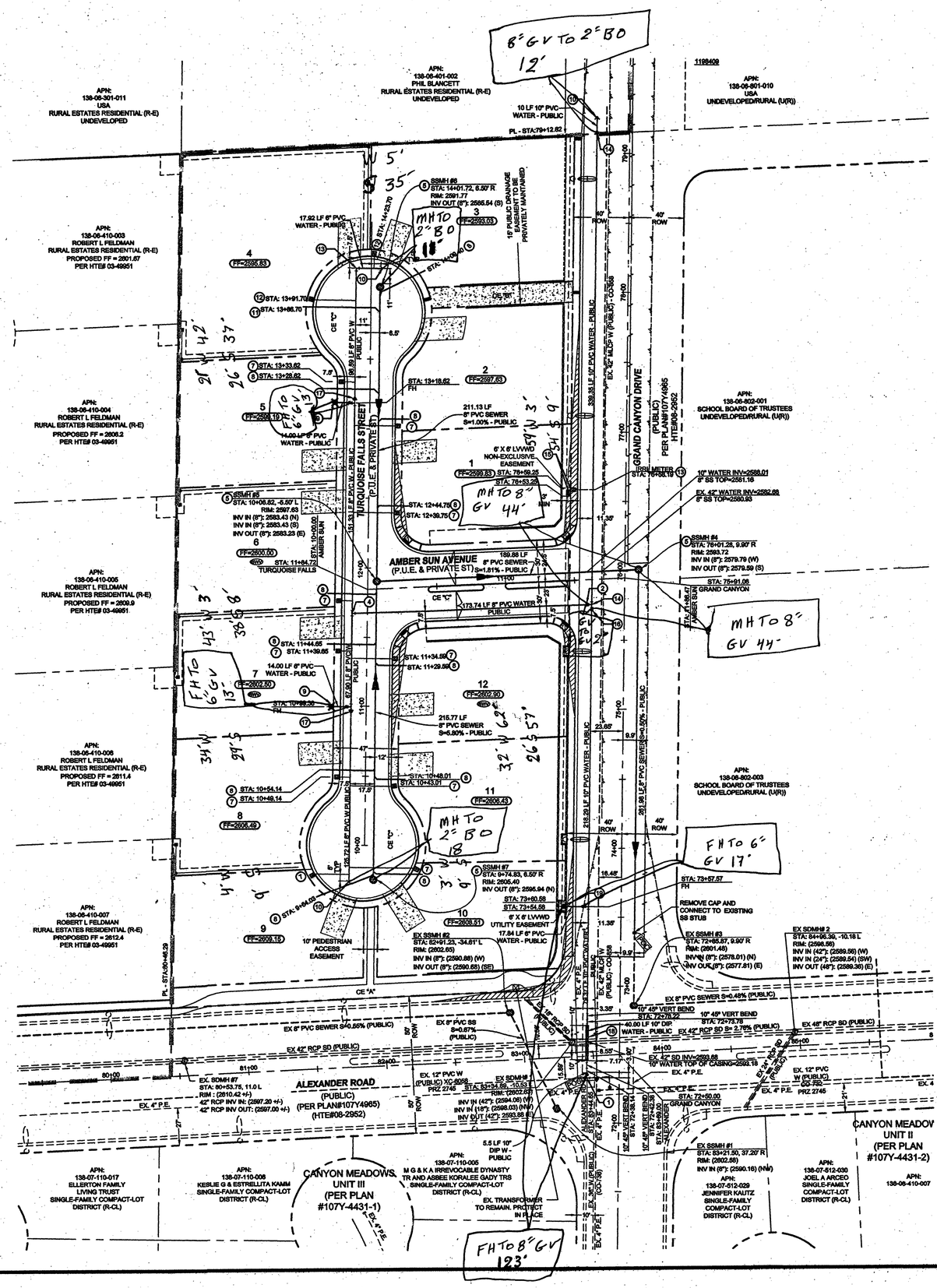


CONSTRUCTION NOTES

1. POC- CONNECT TO EXISTING 12" WATER BY INSTALLING A 12" X 10" TAPPING SLEEVE W/ 10" TAPPING VALVE (UDACS 2.24.01.A AND UDACS PLT. 30, 34 & 39)
2. INSTALL 8" GATE VALVE PER UDACS PLT. 30 AND 39
3. INSTALL 8" X 8" WATERLINE TEE (UDACS PLT. 31)
4. 8" WATERLINE TEE (UDACS PLT. 31)
5. 48" MANHOLE, BASE PRECAST, GRADE RING COLLAR & LID PER (DCSWCS SD-1A, SD1B THRU SD-5) (SINGLE LID)
6. POC- CONNECT TO EXISTING MANHOLE REMOVE EXISTING STUB (UDACS PLT. 31)
7. 1" COPPER WATER SERVICE W/ 3/4" METER (UDACS PLT. 2)
8. 4" SDR-35 SEWER LATERAL WITH MARKER BALL & CURB MARKING (DCSWCS SD-22)
9. INSTALL FIRE HYDRANT ASSEMBLY W/ 6" GATE VALVE 6" X 6" TEE (UDACS PLT. 40)
10. INSTALL 10" END CAP & 2" BLOW-OFF VALVE (UDACS PLT. 36)
11. 4" C900 PVC SEWER LATERAL WITH MARKER BALL & CURB MARKING (DCSWCS SD-22) - 6" MINIMUM VERTICAL SEPARATION FROM WATER
12. 1" COPPER WATER SERVICE W/ 3/4" METER (UDACS PLT. 4)
13. INSTALL 6" 90° BEND PER UDACS PLT NO. 31
14. INSTALL 10" X 8" WATERLINE TEE (UDACS PLT. 31)
15. INSTALL 3/4" IRRIGATION METER WITH 1" RPPA (UDACS PLT. 4 & 8)
16. INSTALL 10" GATE VALVE PER UDACS PLT NO. 30 AND 39
17. INSTALL 8" X 6" REDUCER PER UDACS PLT NO. 30
18. INSTALL 20" STEEL CASING PER UDACS PLT NO. 23
19. INSTALL FIRE HYDRANT ASSEMBLY W/ 6" GATE VALVE 10" X 6" TEE (UDACS PLT. 40)

WASTEWATER CALCULATIONS

FACILITY TYPE: SINGLE FAMILY RESIDENTIAL
TOTAL UNITS AT BUILD OUT: 12 HOUSES

AVERAGE FLOW = 0.0030 MGD (12 ERUS)
PEAK FLOW = 0.0105 MGD (42 ERUS)
PEAK + WET WEATHER = 0.0131 MGD (53 ERUS)

CALCULATIONS:
AVG FLOW = 12 X 90,000 GAL X 1 MG / 365 DAYS 1,000,000 G = 0.0022 MGD
PEAK FLOW = 0.0030 X 3.5 = 0.0105 MGD
PEAK + WET WEATHER FLOW = 0.0105 MGD X 1.25 = 0.0131 MGD

WATER MAIN JOINT DEFLECTION NOTE (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 MAXIMUM 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, FITTING SHALL BE USED.

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 2000 GALLONS PER MINUTE AT 20 POUNDS PER SQUARE INCH RESIDUAL.

BASED ON:
BUILDING AREA: 4,999 SQ FT
LARGEST AREA BETWEEN SEPARATE WALLS: N/A
HEIGHT: 35-FT
TYPE OF CONSTRUCTION: V-B

SPRINKLER SYSTEM: NO
OCCUPANCY: R-3
ROOF CONSTRUCTION: TILE
STORIES: 2
HIGH PILED COMBUSTIBLE STORAGE: NO
ESFR SYSTEM: NO

UTILITY NOTES

1. ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (UDACS), LATEST EDITION.
2. FIRE, WATER, AND SEWER SERVICES, AS APPROVED ON THIS PLAN, ARE INTENDED SPECIFICALLY FOR THE LOT AND USE SHOWN, AND ARE NOT INTENDED TO SERVICE ADDITIONAL PARCELS OR STRUCTURES WHICH MAY BE CREATED IN THE FUTURE. IN THE EVENT THAT THE PARCELS AND/OR LOTS SHOWN ON THIS PLAN ARE FURTHER DIVIDED TO CREATE ADDITIONAL PARCELS OR LOTS, THE OWNER IS REQUIRED TO PROVIDE SEPARATE FIRE, WATER, & SEWER SERVICES TO EACH.
3. WATER AND SEWER LATERALS SHALL BE INSTALLED A MINIMUM OF 48" APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF 12" ABOVE THE SEWER LATERAL. (REF. UNIFORM PLUMBING CODE)
4. LOCATOR RIBBON SHALL BE USED FOR ALL SERVICE LATERALS NOT PERPENDICULAR TO THE MAIN. (TYPICAL)
5. ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
6. ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENTS HAVE BEEN OBTAINED FROM THE OFFSITE OWNER AND GIVEN TO CLARK COUNTY.
7. ALL ONSITE STREETS AND DRAINAGE EASEMENTS ARE TO BE PRIVATELY OWNED AND MAINTAINED.
8. INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING. (UDACS PLT 15.)
9. 3' MIN. HORIZONTAL CLEARANCE REQUIRED BETWEEN WATER MAINS AND DRY UTILITIES PER UDACS SECTION 2.04.02
10. 12" MIN. VERTICAL CLEARANCE REQUIRED BETWEEN WATER MAINS AND DRY UTILITIES AND 6" MIN. BETWEEN WATER LATERALS AND DRY UTILITIES PER UDACS SECTION 2.04.06

UTILITY DISCLAIMER

EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTORS 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 OR UTILITIES NOT SHOWN IN THEIR EXISTING LOCATIONS.

BENCHMARK

CLV BM# : 9LV007N4
RIVET & PLATE TOP OF CURB, SOUTHEAST CORNER OF ALEXANDER & GRAND CANYON
792.642 m / 2601.18 ft (NAVD 88 DATUM)

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE 5/24/16 PROJECT# 124496
LVWD APPROVED FIRE FLOW: 2,000 GPM AT 20 PSI RESIDUAL

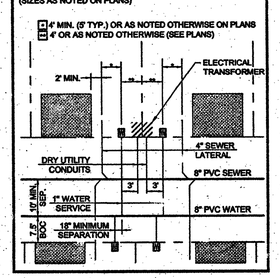
APPROVED FOR CONSTRUCTION
CITY OF LAS VEGAS FIRE DEPARTMENT DATE 5/24/16
APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS. FIRE FLOW = 2,000 G.P.M. AT 20 PSI RESIDUAL.

Call before you Dig
Avoid cutting underground utility lines. It's costly.
CALL 811 OR 1-800-227-2600

Avoid overhead power line contact. It's costly.
Call before you Overhead 1-702-227-2929

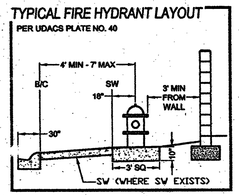
TYPICAL LATERAL LAYOUT N.T.S

FOR LOTS LESS THAN 70' WIDE UNLESS OTHERWISE NOTED (SIZES AS NOTED ON PLANS)



TYPICAL FIRE HYDRANT LAYOUT

PER UDACS PLATE NO. 40



NO.	DESCRIPTION	BY	SHTS.	APPR.	DATE

REVISIONS

ADAVEN HOMES
3423 CLIFF SHADOWS PARKWAY, STE. #110
LAS VEGAS, NV 89129
(702) 365-5588 FAX: —

TANEY ENGINEERING
8816 GILMORE AVENUE
LAS VEGAS, NV 89115
(702) 363-8-14 FAX: (702) 363-5333

EST. 2000

GRAND CANYON & ALEXANDER
A RESIDENTIAL SUBDIVISION
UTILITY PLAN

REGISTERED PROFESSIONAL ENGINEER BRIAN E. MYERS Exp. 12-31-17 CIVIL No. 23550 STATE OF NEVADA
5/24/16

DATE: 5/24/2016
SCALE: —
JOB NO: ADV-15-012
DESIGNED BY: BP CHECKED BY: BM
SHEET NAME: UT1
SHEET NUMBER: 9 OF 10
CC HTE#16-13915
CLV 10785043 63688

PRO.#:124496 AGR#: 115836 QS:138-06-SW XC 11176

FILE NAME: