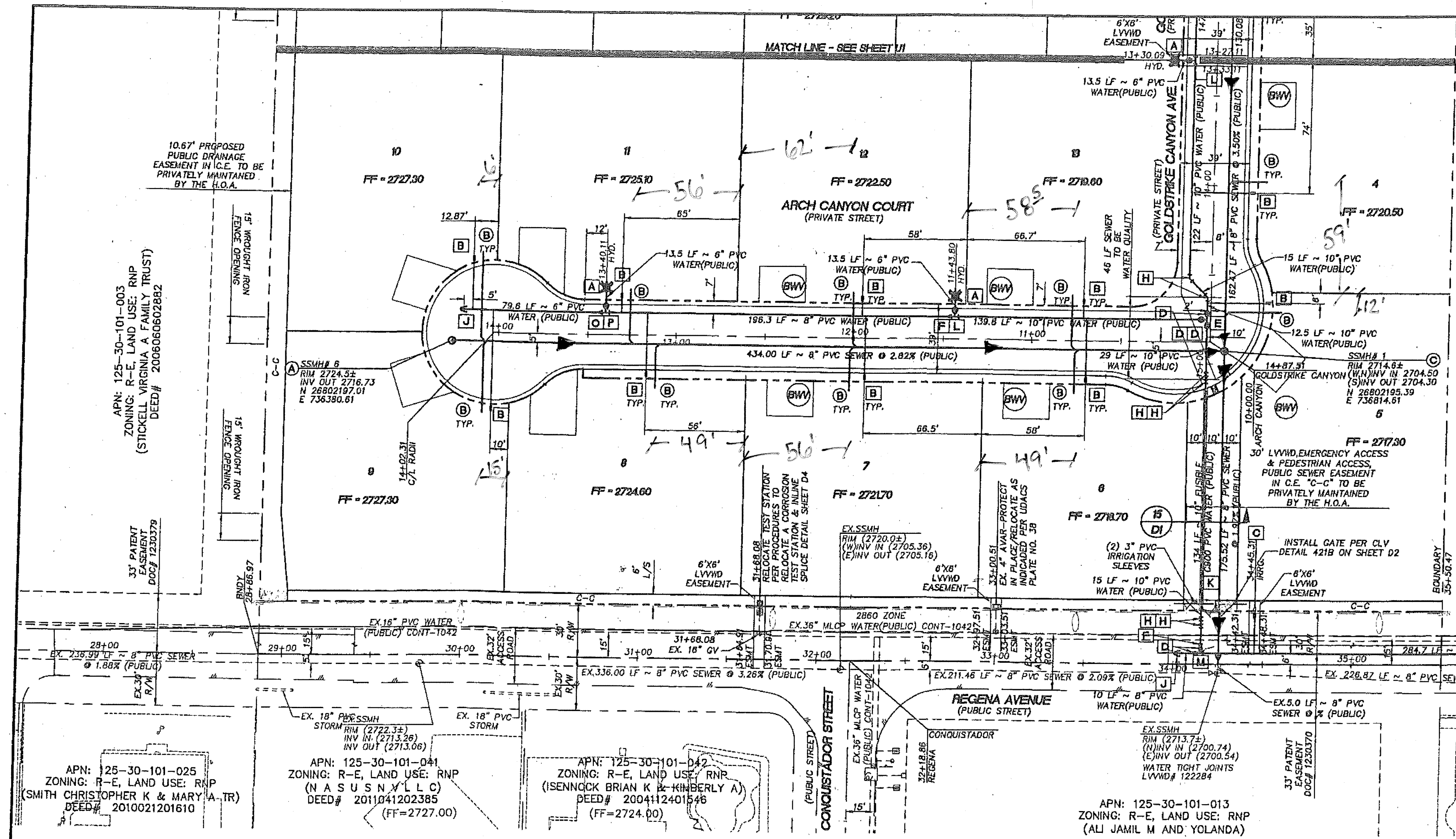




PRIVATE STREET NOTE
ALL PRIVATE STREETS ARE PUBLIC SEWER EASEMENTS, AND PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.

ADJUST WATER VALVE BOX TO FINISHED GRADE PER UDACS PLATE NO. 39. VALVE SHALL BE ACCESSIBLE AT ALL TIMES.

DISCLAIMER NOTE
EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD 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 PROPER LOCATIONS.

NOTIFY ENGINEER IMMEDIATELY IF DISCREPANCIES ARE ENCOUNTERED.

REDUCED PRESSURE PRINCIPLE ASSEMBLY (2) 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 TO THE START OF CONSTRUCTION.

- LEGEND:**
- PROPOSED PVC SEWER MAIN WITH 48" MANHOLE (SIZE AS SHOWN)
 - PROPOSED PVC WATER MAIN AND GATE VALVE (SIZE AS SHOWN)
 - PROPOSED FIRE HYDRANT ASSEMBLY
 - EXISTING PVC SEWER MAIN WITH EXISTING MANHOLE
 - EXISTING STORM DRAIN MAIN WITH EXISTING MANHOLE
 - EXISTING PVC WATER MAIN AND GATE VALVE
 - PROPOSED 4" SEWER LATERAL AND CLEANOUT
 - PROPOSED 1" WATER SERVICE LATERAL WITH 3/4" METER
 - EXISTING FIRE HYDRANT ASSEMBLY
 - UTILITY EASEMENT (SIZE AS SHOWN)
 - SLEEVED PIPE PER UDACS PLATE 22 & 23
 - PROPOSED POWER TRANSFORMER
 - UTILITY POINT OF CONNECTION
 - PRESSURE REDUCING VALVE (REQUIRED FOR ALL LOTS WITH STATIC PRESSURE EXCEEDING 80 PSI)

FOR ALL UTILITY NOTES, SEE GENERAL NOTES SHEET # C3 AND FOR UTILITY QUANTITIES SEE THIS SHEET # U1

- UTILITY NOTES**
- NOTIFY THOMASON CONSULTING ENGINEERS IMMEDIATELY OF ANY DISCREPANCIES IN THE PLANS OR CONDITIONS IN THE FIELD.
 - PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL LOCATE AND VERIFY SIZE, MATERIAL, DEPTH, CONDITION, PRESSURE AND LOCATION OF ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. THOMASON CONSULTING ENGINEERS SHALL BE CONTACTED ONCE THE UTILITY IS LOCATED.
 - PLANS MAY NOT INDICATE ALL EXISTING UTILITY LINES. CONTRACTOR IS TO EXERCISE EXTREME CAUTION DURING EXCAVATION IN ORDER TO AVOID DAMAGING ANY EXISTING UTILITY LINES. IF THE UTILITY LINES ARE DAMAGED BY THE CONTRACTOR, SUCH DAMAGE SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.
 - CONTRACTOR TO SAWCUT AND REMOVE EXISTING ASPHALT AND CONCRETE AS NECESSARY FOR UTILITY TRENCHES. BACKFILL AND PATCH ALL TRENCHES ACCORDING TO CLARK COUNTY STANDARDS.
 - ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (UDACS), LATEST EDITION.
 - CONTRACTOR TO FIELD VERIFY LOCATION AND INVENT OF MANHOLE PRIOR TO CONSTRUCTION. THOMASON CONSULTING ENGINEERS SHALL BE CONTACTED ONCE THIS INFORMATION HAS BEEN OBTAINED.

THE DISTRICT CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE FUGITIVE WATER THAT MAY IMPEDE CONSTRUCTION AT ALL TIMES. COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRIAL SHUTDOWN.

CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APPURTENANCES ARE AVAILABLE.

FOR ALL DRY UTILITY CROSSING
-MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING.
-MAINTAIN MINIMUM 3' PARALLEL SEPARATION
-ANY EXCAVATION AT BACK OF CURB MUST BE 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.

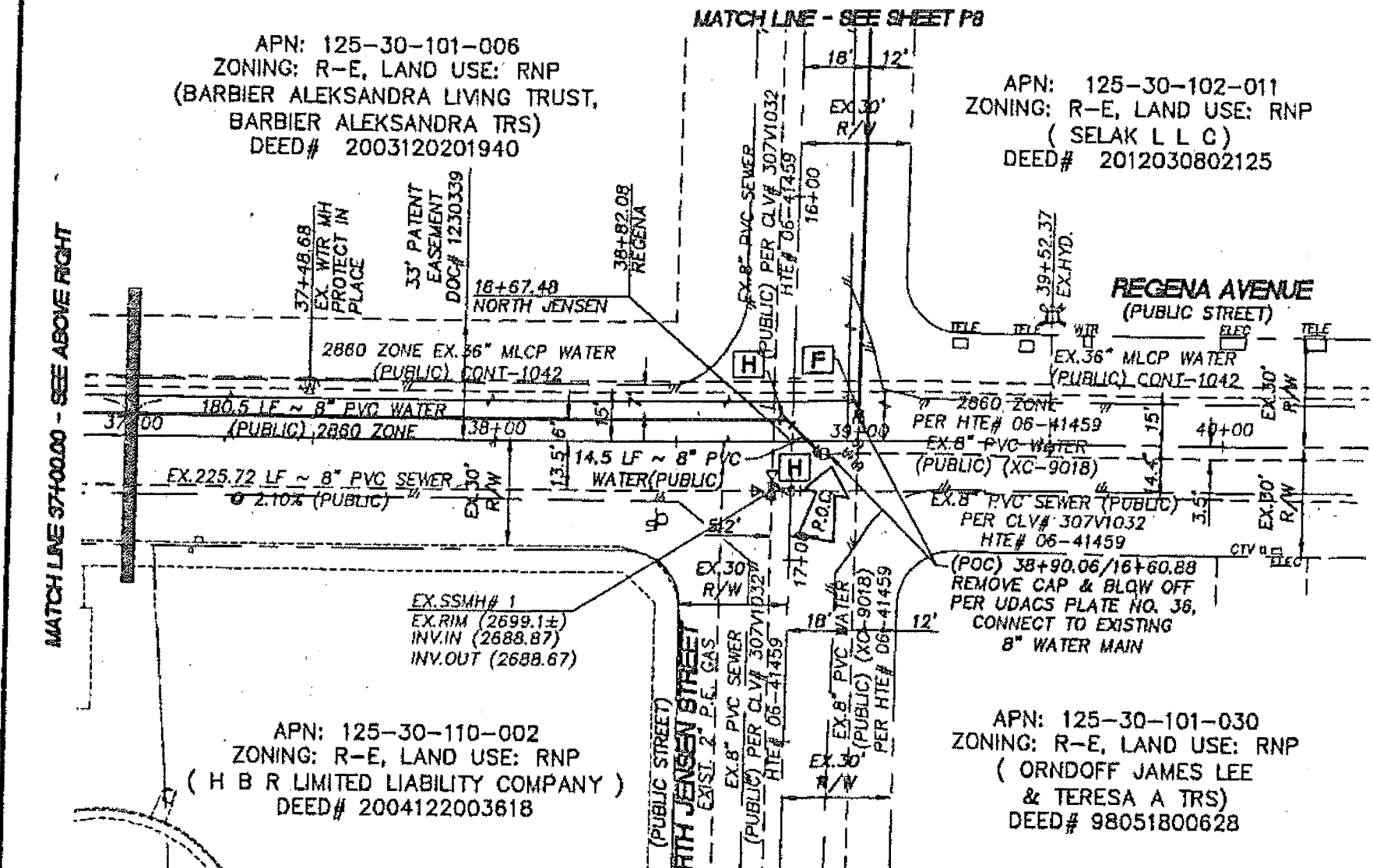
WATER CONSTRUCTION NOTES

A	INSTALL FIRE HYDRANT ASSEMBLY PER UDACS STD. PLATE NO. 40 OR 41 (CENTENNIAL PARKWAY)
B	1" METER AND 1" TYPE K COPPER LATERAL PER UDACS STD. PLATE NO. 4
C	3/4" IRRIGATION METER PER UDACS PLATE NO. 4
D	1" RPPA PER UDACS PLATE NO. 8
E	INSTALL GATE VALVE PER UDACS PLATE NO. 30 WITH VALVE BOX PER UDACS PLATE NO. 39. (SAME SIZE AS LINE)
F	INSTALL 10"x8" TEE PER UDACS PLATE NO. 31.
G	INSTALL 10"x8" REDUCER PER UDACS STD. PLATE NO. 30.
H	INSTALL 90° BENDS AND THRUST BLOCKS AS REQUIRED PER UDACS PLATE NO. 31. (SAME SIZE AS LINE)
I	INSTALL 45° BENDS AND THRUST BLOCKS AS REQUIRED PER UDACS PLATE NO. 31. (SAME SIZE AS LINE)
J	3/4" METER AND 1" TYPE K COPPER LATERAL PER UDACS STD. PLATE NO. 4 & 1" MIN. METER BOX
K	CAP AND 2" BLOWOFF ASSEMBLY PER UDACS STD. PLATE NO. 36 (SAME SIZE AS LINE)
L	INSTALL STEEL CASING 10" EACH SIDE OF CROSSING PER UDACS PLATE NO. 22 AND 23. SIZE OF STEEL CASING VARIES SEE PROFILES.
M	INSTALL 10"x8" TEE PER UDACS PLATE NO. 31.
N	INSTALL 8"x8" TEE PER UDACS STD. PLATE NO. 31.
O	INSTALL 12"x6" TEE PER UDACS PLATE NO. 31.
P	INSTALL 8"x6" REDUCER PER UDACS STD. PLATE NO. 30.
Q	INSTALL 8"x6" TEE PER UDACS STD. PLATE NO. 31.
R	INSTALL 12"x10" TEE PER UDACS STD. PLATE NO. 31.
PRV	PRESSURE REDUCING VALVE

PRESSURE NOTE: WATER MAIN IS INSTALLED FROM THE 2860 PRESSURE ZONE PER LVWD.

- SEWER NOTES**
- CONSTRUCT 48" STANDARD ECCENTRIC MANHOLE PER DCSWCS PLATE SD-1
 - INSTALL SEWER LATERAL PER DCSWCS PLATE SD-17
 - CONSTRUCT 48" STANDARD ECCENTRIC MANHOLE PER DCSWCS PLATE SD-1, WITH WATER QUALITY, INSTALL WATER QUALITY TIGHT JOINTS
 - INSTALL RESIDENTIAL SEWER BACK WATER VALVE PER DCSWCS PLATE SD-29

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NO. 122283 DATE: 3/17/15
LVWD APPROVED FIRE FLOW 2,000 GPM AT 20 PSI RESIDUAL



BENCHMARK
CITY OF LAS VEGAS BENCHMARK 6LY99 24SES
A RIVET AND PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF CENTENNIAL PARKWAY AND HUALAPAI WAY.

ELEVATION=844.924 METERS (NAVD'88)
ELEVATION=2772.06 US SURVEY FEET (NAVD'88)

BASIS OF BEARING
NORTH 89°58'34" EAST, BEING THE BEARING OF THE NORTH LINE OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 28, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.D.M., AS SHOWN IN FILE 114, PAGE 57 OF SURVEYS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE

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

PROTECT IN PLACE AND ADJUST LVWD EXISTING FACILITIES TO FINISH GRADE. ALL LVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

ESN.078 01/05/15

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

Call before you dig
1-800-227-2600

FAST
Underground
1-702-432-5300

THOMASON CONSULTING ENGINEERS
7080 LA CIENEGA STREET, SUITE 200
LAS VEGAS, NEVADA 89119
702-932-6125 FAX: 702-932-6125

LENAR HOMES
2480 PASO VERDE PARKWAY, SUITE 120, HENDERSON, NV 89074
PH: (702) 458-7700 FAX: (702) 458-7708

CENTENNIAL AND CONQUISTADOR UTILITY PLAN 2

U2
7 OF 21
DRAWING NO. 107X5022
H# 55906

JOHN B. McAVOY, P.E.
CIVIL
No. 22439
EXP. 12-31-15

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NO. 122283 DATE: 3/17/15
LVWD APPROVED FIRE FLOW 2,000 GPM AT 20 PSI RESIDUAL

SEWER ASBUILTS