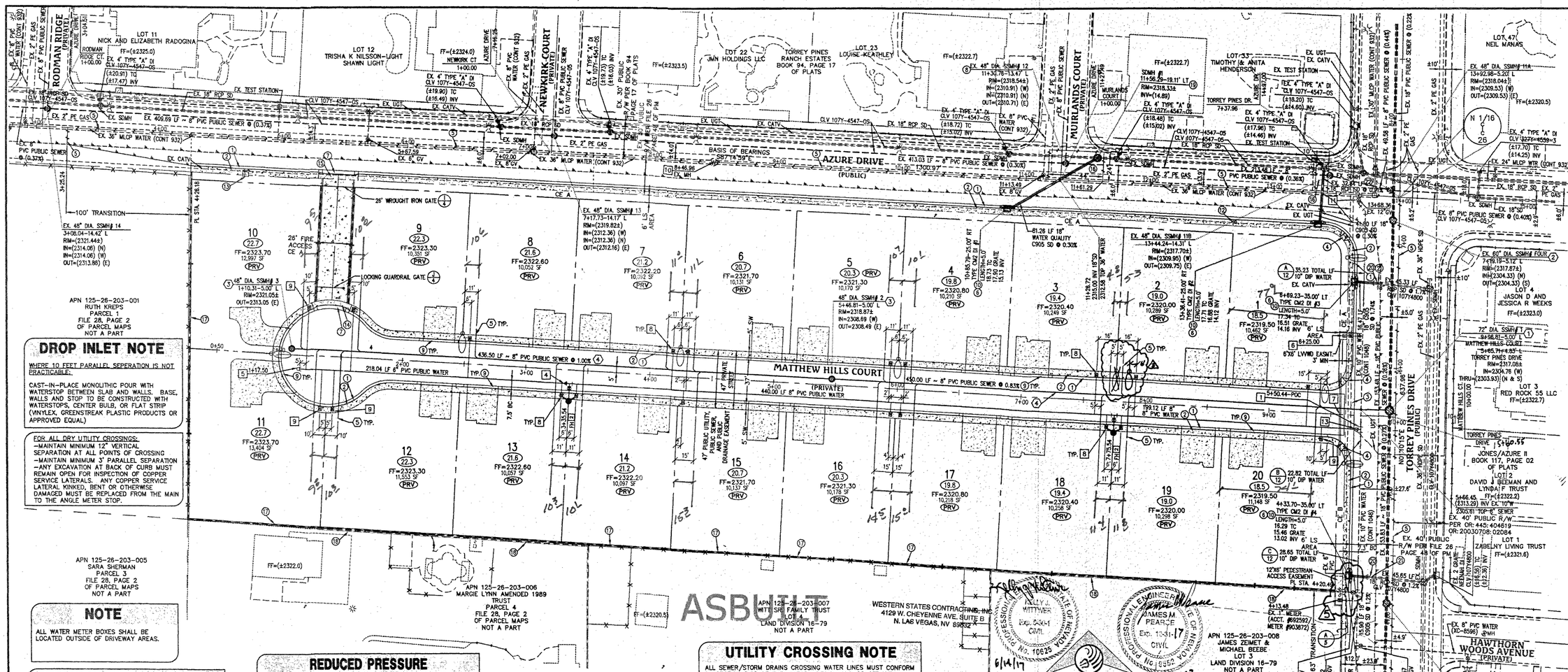


DROP INLET NOTE

WHERE 10 FEET PARALLEL SEPERATION IS NOT PRACTICABLE:

CAST-IN-PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS. BASE, WALLS AND STOP TO BE CONSTRUCTED WITH WATERSTOPS, CENTER BULB, OR FLAT STRIP (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL)

FOR ALL DRY UTILITY CROSSINGS:
- MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING
- MAINTAIN MINIMUM 3' PARALLEL SEPARATION
- 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.

NOTE

ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.

PRESSURE REDUCING VALVE

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.

LOTS WITHIN 2538 ZONE WITH A FINISH FLOOR ELEVATION LESS THAN 2353.4 WILL REQUIRE A PRV

PRV's ARE REQUIRED FOR LOTS 1 THRU 20, AND THE 3/4" IRRIGATION METER.

TOTAL PRV's = 21

UTILITY LEGEND

EX. GAS	EXISTING GAS
EX. 10"S	EXISTING SEWER MAIN
8"S	PROPOSED SEWER MAIN
	PROPOSED SEWER LATERAL
EX. 36"SD	EXISTING STORM DRAIN
36"SD	PROPOSED STORM DRAIN
EX. 8"W	EXISTING WATER MAIN
8"W	PROPOSED WATER MAIN
	PROPOSEDWATER LATERAL WITH 3/4" METER
	EXISTING UTILITY MANHOLE
	PROPOSED UTILITY MANHOLE
	EXISTING VALVE
	PROPOSED VALVE
	PROPOSED REDUCER
	PROPOSED STANDARD FIRE HYDRANT WITH 6" LATERAL, 6" GATE VALVE, AND TEE
BWV	BACK WATER VALVE
PRV	PRESSURE REDUCING VALVE
	EXISTING STREET LIGHT
	FUTURE STREET LIGHT
	PROPOSED 100w HPS STREET LIGHT
	PROPOSED 150w HPS STREET LIGHT
	PROPOSED 200w HPS STREET LIGHT
	PROPOSED 250w HPS STREET LIGHT
	PROPOSED 400w HPS STREET LIGHT
	PROPOSED CONCRETE DRIVEWAY

REDUCED PRESSURE PRINCIPLE ASSEMBLY (1) 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 LVVWD. 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.

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

CONSTRUCTION NOTES

1. CONSTRUCT "L" TYPE CURB & GUTTER PER CCAUSD #216.
2. CONSTRUCT 5' WIDE SIDEWALK PER CCAUSD #234.
3. CONSTRUCT 8' WIDE VALLEY GUTTER PER CCAUSD #228.
4. CONSTRUCT SIDEWALK RAMPS USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT PER CCAUSD #235, CASE I.
5. SAWCUT AND MATCH EXISTING ASPHALT.
6. STORM WATER STAMP TO BE LOCATED ADJACENT TO DROP INLET PER CCAUSD #421.
7. CONSTRUCT "K" TYPE CURB AND GUTTER, PER CCAUSD #222 & 224 (LATEST EDITION).
8. EXISTING SEWER MANHOLE TO BE PROTECTED IN PLACE AND ADJUSTED TO GRADE.
9. CONSTRUCT R-TYPE CURB & GUTTER PER CCAUSD #222 AND #223 (LATEST EDITION).
10. CONSTRUCT TYPE CM2 DROP INLET PER CCAUSD #412.1. SEE DETAIL ON SHEET 5. SEE PROFILE ON SHEET 10.
11. ADJUST EXISTING FIRE HYDRANT VERTICALLY TO GRADE. CONTRACTOR SHALL MAKE VERTICAL ADJUSTMENTS AS NECESSARY TO BRING THE FIRE HYDRANT INTO COMPLIANCE, WITHOUT THE USE OF A FIRE HYDRANT BARREL EXTENSION, WITH UDACS PLATE No. 40 AND LVVWD REQUIREMENTS. FIRE HYDRANTS SHALL BE TESTED PRIOR TO AND AFTER RELOCATION, UNDER THE DIRECTION OF THE DISTRICT TO ENSURE QUALITY. INSTALLATION SHALL BE IN ACCORDANCE WITH UDACS PLATE No. 40.
12. ADJUST EXISTING CABLE BOX TO GRADE.
13. ADJUST EXISTING ELECTRICAL VAULT TO GRADE.
14. CONSTRUCT 26' WIDE RESIDENTIAL DRIVEWAY PER CCAUSD #223.
15. CONSTRUCT 26' WIDE COMMERCIAL DRIVEWAY PER CCAUSD #224.
16. SAWCUT, TRENCH AND PAVEMENT RESTORATION PER CCAUSD #500.5 AND #503.
17. PROPOSED WALL WILL PREVENT DRAINAGE FROM SITE TO ADJACENT PROPERTY.
18. EXISTING WALL PREVENTS DRAINAGE FROM SITE TO ADJACENT PROPERTY.
19. CONSTRUCT 60" DIA. TYPE 1 SDMH PER CCAUSD #401 AND 403.
20. REMOVE SD PLUG AND 4 LF OF EXISTING 18" RCP STORM DRAIN.
21. INSTALL POUR IN PLACE 10" THICK CONCRETE COLLAR WITH #4 REBAR ALL AROUND.
22. REMOVE ALL OF EXISTING 18" RCP STORM DRAIN STUB (±33 LF).

(11) REMOVE EXISTING FIRE HYDRANT, AND ABANDON VALVE AS SHOWN ON SHEET 5.

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 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, FITTINGS SHALL BE USED.

BACK WATER VALVE

BACKWATER VALVES REQUIRED PER U.P.C., LATEST EDITION, SECTION 710.0.

TOTAL LOTS REQUIRING BACKWATER VALVES = 0

WATER NOTES

1. 10"X8" TEE PER UDACS PLATE No. 31.
2. FIRE HYDRANT ASSEMBLY (INCLUDING 6" LATERAL, 6" GATE VALVE, AND 8"X6" TEE) PER UDACS PLATE No. 30, 39, AND 40.
3. 10" 45° BEND PER UDACS PLATE No. 31.
4. 8"X6" REDUCER PER UDACS PLATE No. 30.
5. 2" BLOW OFF ASSEMBLY WITH CAP PER UDACS PLATE No. 36.
6. INSTALL 3/4" IRRIGATION METER WITH 1" RPPA PER UDACS PLATE No. 4 & 8. (BRASS BETWEEN METER & RPPA)
7. (2) 4" PVC IRRIGATION CONDUIT.
8. INSTALL 1" COPPER WATER SERVICE WITH 3/4" METER PER UDACS PLATE No. 2.
9. INSTALL 1" COPPER WATER SERVICE WITH 3/4" METER PER UDACS PLATE No. 4.
10. EXISTING WATER MANHOLE (CONT. 832) TO BE PROTECTED IN PLACE AND ADJUSTED TO GRADE PER DETAIL D/12.
11. EXISTING GATE VALVE TO BE PROTECTED IN PLACE AND ADJUSTED TO GRADE PER UDACS PLATE No. 39.
12. 10" 22 1/2° BEND PER UDACS PLATE No. 31.
13. INSTALL 8" GATE VALVE PER UDACS PLATE No. 30 AND 39.

SEWER NOTES

1. POC – INSTALL 72"ø MANHOLE WITH CAST-IN-PLACE BASE AND DUAL CONCENTRIC COVER PER DCSWCS SD-1A, SD-1B, SD-2, AND SD-4.
2. EXISTING 60"ø MANHOLE TO BE PROTECTED IN PLACE AND ADJUSTED TO GRADE.
3. INSTALL 48"ø MANHOLE WITH PRECAST BASE AND SINGLE COVER PER DCSWCS SD-1A, SD-1B, AND SD-4.
4. INSTALL 8" SDR35 PVC SS PER DCSWCS SD-15 AND SD-17.
5. INSTALL 4" PVC SEWER LATERAL WITH MARKER BALL & CURB MARKING, PER DCSWCS SD-22 AND SD-25.

FIRE FLOW CALCULATIONS

THE FIRE FLOW REQUIREMENT IS: 1,500 GALLONS PER MINUTE 20 PSI RESIDUAL PRESSURE.

BASED ON:

SQUARE FOOTAGE:	2,630 SQUARE FEET
LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS:	N/A SQUARE FEET
BUILDING HEIGHT:	18 FEET-3 1/4 INCHES
NUMBER OF STORIES:	1 FLOOR
TYPE OF CONSTRUCTION:	V-NON RATED
OCCUPANCY:	RESIDENTIAL
FULL AUTOMATIC FIRE SPRINKLER SYSTEM:	NO

UTILITY CROSSING NOTE

ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS OF POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.

NOTE

HAND DIGGING IS REQUIRED FOR ANY EXCAVATION WITHIN 2 FEET OF THE TOP OF THE EXISTING 36 INCH MLCP WATER MAIN AND EXTENDING 10' ON EITHER SIDE.

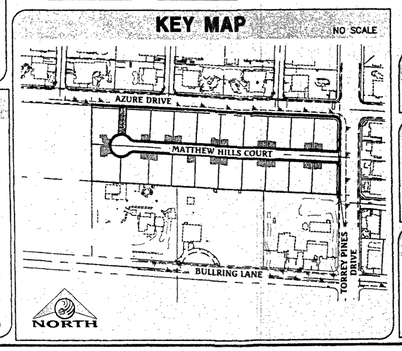
FAST Call before you Underground 1-702-432-5300 FREEWAY & ARTERIAL SYSTEM OF TRANSPORTATION

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

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

KEY MAP

NO SCALE



FIRE DEPARTMENT APPROVAL

APPROVAL BY THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LVVWD.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK STATION: OLV30 26N6

RIVET & PLATE IN TOP OF CURB ● NW CORNER OF TORREY PINES & AZURE

ELEVATION = 706.598 METERS (NAVD'88 2008 ADJ)
ELEVATION = 2318.23 U.S. FEET (NAVD'88 2008 ADJ)

BASIS OF BEARING

SOUTH 87°14'59" EAST, BEING THE BEARING OF THE NORTH LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 26, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA AS SHOWN ON THAT CERTAIN MAP ON FILE IN THE CLARK COUNTY RECORDER'S OFFICE IN FILE 160, PAGE 26 OF SURVEYS.

UTILITY APPURTENANCES

ALL ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF TITLE 19.06 AND 19.08.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

DATE: 11/21/16 PROJECT No.: 124685

LVVWD APPROVED FIRE FLOW 1,500 GPM @ 20 PSI RESIDUAL

APPROVALS

LAS VEGAS FIRE AND RESCUE — DATE 6-15-17 — 11/16/16 — 10745046

ASBUILT

NO.	DESCRIPTION	DATE	APP'D
4	REMOVE EX. FIRE HYDRANT (BLOCKED) STILL IN PL. BETWEEN LOTS 2 & 13 10' EAST OF PL.	6/14/17	LM
3		11/16/16	LM
2			
1		3/14/17	LM

DATE : 05/04/2016
PM : J. PEARCE
DRAWN BY :
DESIGNED BY :
CHECKED BY :
ADA CHECKED :
JOB NO. : 007.099
SCALE : 1" = 40'

Triton Engineering
6757 W. Charleston Blvd. Suite B Las Vegas, Nevada 89146
Office: (702) 254-1480 Fax: (702) 254-3062 www.tritoneng.com

DR HORTON
AZURE / TORREY PINES NORTH
UTILITY PLAN I

PROFESSIONAL ENGINEER-STATE OF NEVADA JAMES M. PEARCE Exp. 12-31-17 CIVIL No. 9552 — 11-15-16

SHEET 11 OF 14
C.L.V. DWG.# 64695

Proj#: 124685 Agrmt#:115991 QS:125-26-NW XC-11221

J:\Triton Drawings\007.099 AzureTorrey Pines North\Drawings\IMPROVEMENT PLANS\11_utility plan.dwg chore Mon, 14 Nov 2016 - 3:35pm