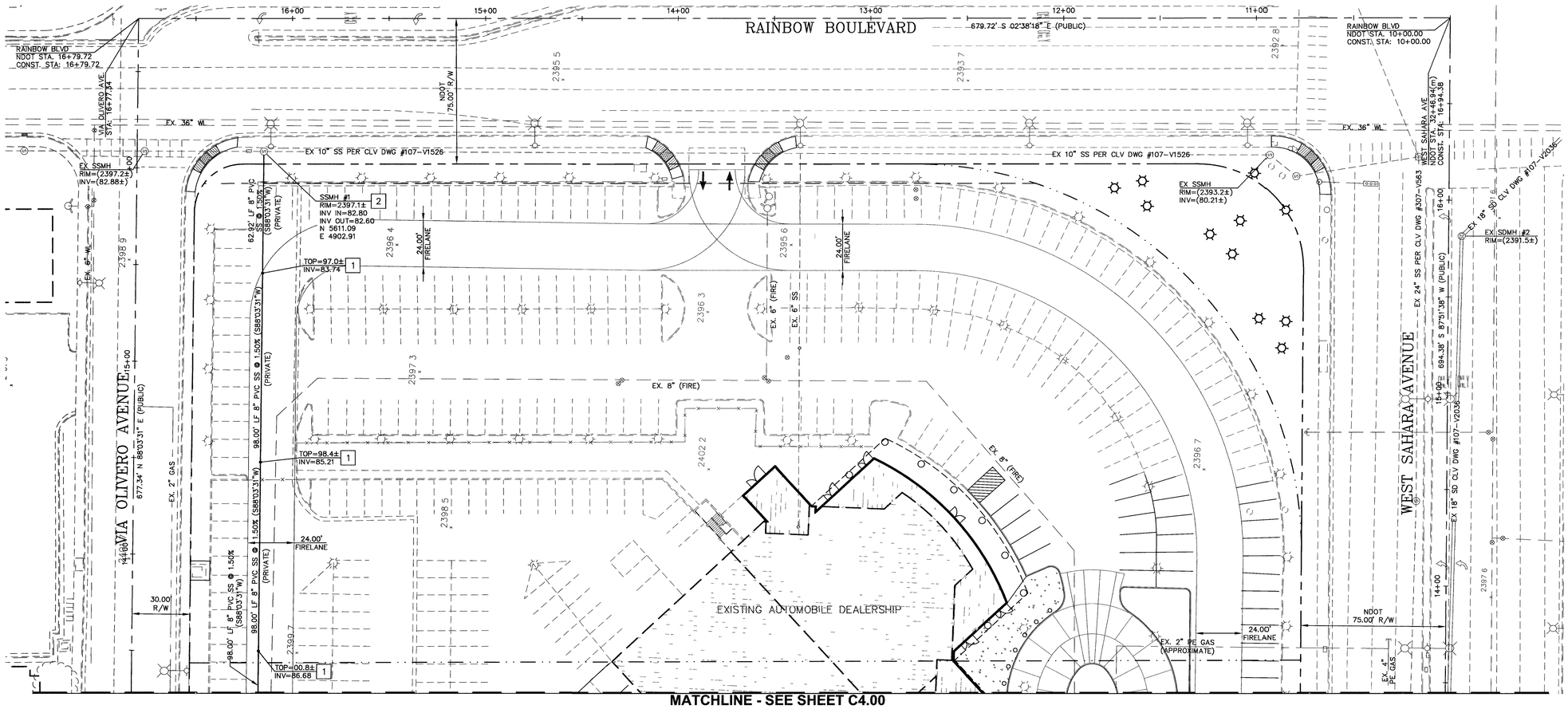

UTILITY GENERAL NOTES:

1. ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (U.D.A.C.S.), LATEST EDITION.

2. ALL EXISTING SANITARY SEWER/STORM DRAIN CROSSING WATER LINES MUST CONFORM TO SECTION 2.19 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS (U.D.A.C.S.).

3. THESE DRAWINGS MAY NOT INDICATE ALL EXISTING BURIED UTILITY LINES. CONTRACTOR IS TO EXERCISE EXTREME CAUTION DURING EXCAVATION IN ORDER TO AVOID MAKING CONTACT WITH ANY EXISTING UTILITY LINES. IF UTILITY LINES ARE DAMAGED BY THE CONTRACTOR, SUCH DAMAGE SHALL BE REPLACED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.

4. CONTRACTOR TO LOCATE AND VERIFY SIZE, LINE TYPE, CONDITION, DEPTH, PRESSURE, AND LOCATION OF ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA PRIOR TO CONSTRUCTION. THE CIVIL ENGINEER SHALL BE CONTACTED ONCE THE UTILITY LINE IS LOCATED.

5. CONTRACTOR TO SAWCUT AND REMOVE EXISTING ASPHALT AND CONCRETE AS NECESSARY FOR UTILITY TRENCHES, BACKFILL AND PATCH ALL TRENCHES AS INDICATED ON DETAILS AND/OR ACCORDING TO THE GOVERNING ENTITY.

6. ALL DIMENSIONS TO UTILITIES ARE TO CENTERLINE OF PIPE UNLESS INDICATED OTHERWISE.

7. CONTRACTOR TO VERIFY UTILITY STUB LOCATIONS AND SIZE WITH PLUMBING PLANS PRIOR TO INSTALLATION OF NEW UTILITIES.

8. WATER AND SEWER SEPARATION OF TRENCHES MUST BE AT LEAST 10' MINIMUM (TYPICAL). SEE D.C.S.W.C.S. SECTION 2.2.21 a1, U.D.A.C.S. SECTION 2.19.01 A.

9. TRENCH BACKFILL FOR STORM DRAIN LINES TO BE CONSTRUCTED PER D.C.S.W.C.S. DRAWING No. SD-16B.

10. INSTALL PIPELINE MARKER BALL IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTINGS PER THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS (U.D.A.C.S.) PLATE No. 27.

11. NOT USED.

12. TRENCH BACKFILL FOR WATER LINES TO BE CONSTRUCTED PER U.D.A.C.S. PLATE No. 6B.

13. WATER LINES TO HAVE THRUST BLOCKS CONSTRUCTED, PER U.D.A.C.S. PLATE No. 5. THRUST BLOCKS TO BE LOCATED AT ALL ANGLE FITTINGS (BENDS), TEE'S, AND FIRE HYDRANTS. ANCHOR BLOCKS TO BE CONSTRUCTED, PER U.D.A.C.S. PLATE No. 3. ANCHOR BLOCKS TO BE LOCATED AT ALL IN-LINE REDUCERS AND GATE VALVES.

14. THE FIRE SAFETY CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING THE SIZE OF PIPING THAT IS REQUIRED TO CONNECT FROM THE FIRE WATER LOOP TO THE FIRE SPRINKLER RISER. LINE SIZE SHOWN FOR INFORMATION PURPOSES ONLY.

15. FIRE CODE REQUIREMENTS: TWO SOURCES OF WATER SUPPLY ARE REQUIRED WHENEVER THERE ARE MORE THAN THREE (3) FIRE HYDRANTS INSTALLED ON A SINGLE SYSTEM.

16. FDC SHALL BE INTERCONNECTED TO BUILDING SPRINKLER SYSTEMS.

UTILITY GENERAL NOTES (CONT):

17. FOR FIRE FLOW AND APPROVAL SEE FIRE CONTROL SHEET C6.00.

18. THE EXISTING GAS LINE LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATIONS ONLY.

19. ALL ONSITE UTILITY FACILITIES ARE PRIVATE (PVT) AND ALL OFFSITE UTILITY FACILITIES ARE PUBLIC UNLESS OTHERWISE NOTED.

20. NEVADA BY DESIGN (NBD) HAS PROVIDED UTILITY INFORMATION BASED ON THE MOST CURRENT DATA AVAILABLE FOR THE CONTRACTORS INFORMATION. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF UNDERGROUND UTILITIES SHOWN OR NOT SHOWN ON THESE PLANS WITH RESPECT TO LINE AND GRADE PRIOR TO CONSTRUCTION.

INSTALLATION OF DOUBLE CHECK DETECTOR ASSEMBLY (2)-8":

THE DOUBLE CHECK DETECTOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE U.D.A.C.S. PLATE No. 11-C.

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 TO THE VAULT(S) FROM THE ADJACENT RIGHT-OF-WAY.

EXISTING EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

WATER NOTES:

1. INSTALL RELOCATED 6" FIRE HYDRANT ASSEMBLY PER U.D.A.C.S. PLATE No. 7. PROVIDE A MINIMUM OF 3' CLEARANCE AROUND FIRE HYDRANT. INSTALL BOLLARDS PER DETAIL 1-C4.00.
2. REMOVE EX. 6" DCDA & INSTALL 8" DOUBLE CHECK DETECTOR ASSEMBLY ABOVE FINISH GRADE, ON A 4"x6'x8' (OFFSET 5.1') CONCRETE PAD PER U.D.A.C.S. PLATE No. 11C.
3. RELOCATE EXISTING FIRE HYDRANT AS SHOWN.
4. INSTALL 8"x 6" TEE PER U.D.A.C.S. PLATE No. 5.
5. INSTALL A GATE VALVE (WITH PIPE SIZE AS NOTED) PER U.D.A.C.S. PLATE No. 3 AND No. 8.
6. INSTALL 8", 90 DEGREE BEND PER U.D.A.C.S. PLATE No. 5.
7. REMOVE REDUCERS.
8. 3" X 3" TEE PER U.D.A.C.S. PLATE No. 5.
9. 3", 45° BEND PER U.D.A.C.S. PLATE No. 5.

ABANDONMENT OF EXISTING SERVICE(S) - LARGER THAN 2":

THE CONTRACTOR SHALL NOTIFY THE INSPECTION DIVISION AT THE DIVISION AT THE LVVWD (702-258-3227) 48 HOURS PRIOR TO THE REQUESTED REMOVAL TIME TO ALLOW THE DISTRICT TO TAKE THE FINAL METER READING. AFTER THE FINAL READING, THE CONTRACTOR MAY THEN BEGIN REMOVAL PROCEDURES FOR THE AFFECTED SERVICE AS FOLLOWS:
(2) 6" DCDA'S TO BE RETURNED TO THE LVVWD BY THE CONTRACTOR.

SANITARY SEWER NOTES:

1. INSTALL CLEANOUT PER PLAN WITH NEENAH H-20 TRAFFIC LOAD RATED COVERS OR APPROVED EQUAL.
2. CONSTRUCT 48" DIA STANDARD ECCENTRIC MANHOLE PER D.C.S.W.C.S. DWG. No. SD-1. INSTALL CONCRETE COLLARS PER SD-2.
3. INSTALL SAND/OIL SEPARATOR PER PLUMBING PLAN.
4. REFER TO BLDG. PLUMBING PLANS FOR CONTINUATION.

(2) 8" DOUBLE CHECK DETECTOR ASSEMBLY (DCDA)

THE DOUBLE CHECK DETECTOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACS PLATE NO. 11C.

ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) SO AS 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.

ABANDONMENT OF EXISTING SERVICE(S) - LARGER THAN 2"

THE CONTRACTOR SHALL NOTIFY THE INSPECTION DIVISION OF THE LVVWD (702-258-3227) 48 HOURS PRIOR TO THE REQUESTED REMOVAL TIME TO ALLOW THE DISTRICT TO TAKE THE FINAL METER READING. AFTER THE FINAL READING, THE CONTRACTOR MAY THEN BEGIN REMOVAL PROCEDURES FOR THE AFFECTED SERVICE AS FOLLOWS:

(2) 6" DCDA'S TO BE RETURNED TO THE LVVWD BY THE CONTRACTOR.

FIRE DEPARTMENT APPROVAL

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

L.V.V.W.D. APPROVAL

L.V.V.W.D., PROJ. H109267 DATE

FIRE FLOW CALCULATIONS:

Fire Flow Requirement is 2,250 gallons per minute at 20 psi residual pressure.
Based on:
Square Footage: 68,280 square feet
Largest area between 4-Hour area separation walls: N/A
Building height: 36 feet
Number of Stories: THREE (3) floor(s)
Type of Construction: III-N
Occupancy: A2.1, F1, & S2
Full Automatic Fire Sprinkler System: ☒ Yes ☐ No
Reviewed By: _____ Date: 4/7/06
Las Vegas Fire Dept.

NORTH

GRAPHIC SCALE
30 0 15 30 60
(IN FEET)
1 inch = 30 ft.

SANITARY SEWER CONTRIBUTION

AVERAGE DAILY FLOW: 0.0137 MGD
PEAK DAILY FLOW: 0.0426 MGD

BENCHMARK:

CLARK COUNTY BENCHMARK #7C10-2SWS 1997
RIVET AND ROUND ALUMINUM PLATE IN TOP OF CURB, NORTHEAST CORNER OF RAINBOW BLVD. AND SAHARA AVE. NEAR THE PC OF RAINBOW BLVD.
ELEVATION = 729.274 METERS (2392.61 FEET NAVD88)

BASIS OF BEARINGS:

SOUTH 87°51'38" WEST, BEING THE SOUTH LINE OF THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 3, TOWNSHIP 21 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN ON FILE IN FILE 128 OF SURVEYS, PAGE 46, CLARK COUNTY OFFICIAL RECORDS.

AVOID HITTING UNDERGROUND TRAFFIC SIGNAL SYSTEMS AND STREET LIGHT SYSTEM CONDUITS, IT'S COSTLY
Call before you UnderGround
1-702-455-7511
CLARK COUNTY TRAFFIC OPERATIONS and
1-702-229-6611
LAS VEGAS AREA COMPUTERIZED TRAFFIC SYSTEM

Avoid overhead power line contact. It's costly.
Call before you OVERHEAD
1-702-593-6111

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

LEGEND

CL OR SURVEY LINE	EASEMENT LINE	HEAVY AC PV.	MANHOLES & DESCRIPTIONS: Ⓢ = SANITARY SEWER; Ⓓ = STORM DRAIN; Ⓔ = ELECTRICAL; Ⓣ = TELEPHONE
PROPERTY LINE	SAWCUT LINE	LIGHT AC PV.	
ROW LINE	SCARP LINE	HEAVY CONC. PV.	
		LIGHT CONC. PV.	

CAP — DESCRIPTION: EXISTING: PROPOSED:

BO VALVE | CLEAN OUT | FDC | FIRE HYDRANT | GATE VALVE | REDUCER | 100w HPS STREETLIGHT | 150w HPS STREETLIGHT | 200w HPS STREETLIGHT | 250w HPS STREETLIGHT | 400w HPS STREETLIGHT | 5' CONTOUR LINE (2210) 2210 | 1' CONTOUR LINE 2211 | EDGE OF PVMT. | "A" TYPE CURBS | "L" TYPE CURBS | WALLS | FENCES | SPOT ELEVATIONS (12.34±) 12.34 BC BC | SIGNS

Nevada By Design
ENGINEERING CONSULTANTS
3515 East Harmon Avenue
Las Vegas, NV 89121
Phone (702) 304-1585 Fax (702) 304-1530
www.nevadabydesign.com
NBD

WELLES · PUGSLEY
ARCHITECTS L.L.P.
2480 EAST TOMPKINS AVE. SUITE 222, LAS VEGAS NEVADA, 89121
ph. 702.435.1150 fax. 702.435.7699 e-mail: wpp@wellespugsleyarchitect.com

STAMP: 4/11/06

REVISIONS:

ARCHITECT:

AUTONATION - DESERT BMW OF LAS VEGAS
6900 W. SAHARA AVENUE
LAS VEGAS, NEVADA

UTILITY PLAN

SHEET TITLE/PROJECT NAME:

3RD INVESTMENT, INC. C/O AUTONATION
110 S.E. 6TH STREET
FT. LAUDERDALE, FL 33301

PROJECT OWNER:

MUNICIPALITY: CITY OF LAS VEGAS

STATE: NEVADA

SUBMITTAL: PLAN CHECK

PROJECT LOCATION:

PROJECT NUMBER: WP-0504

DRAWN BY: DMZ

CHECKED BY: CLN

DATE: 3/27/2006

C4.01

SHEET: 8 OF 13

10704667

94170

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XREF = \\WP\AUTOSTAR\0504\DWG\V0504UT-TXT, I:\WP\AUTOSTAR\0504\DWG\V0504UT-TB, I:\WP\AUTOSTAR\0504\DWG\V0504S-TB, I:\WP\AUTOSTAR\0504\DWG\V0504S-TP, V0504S-UT