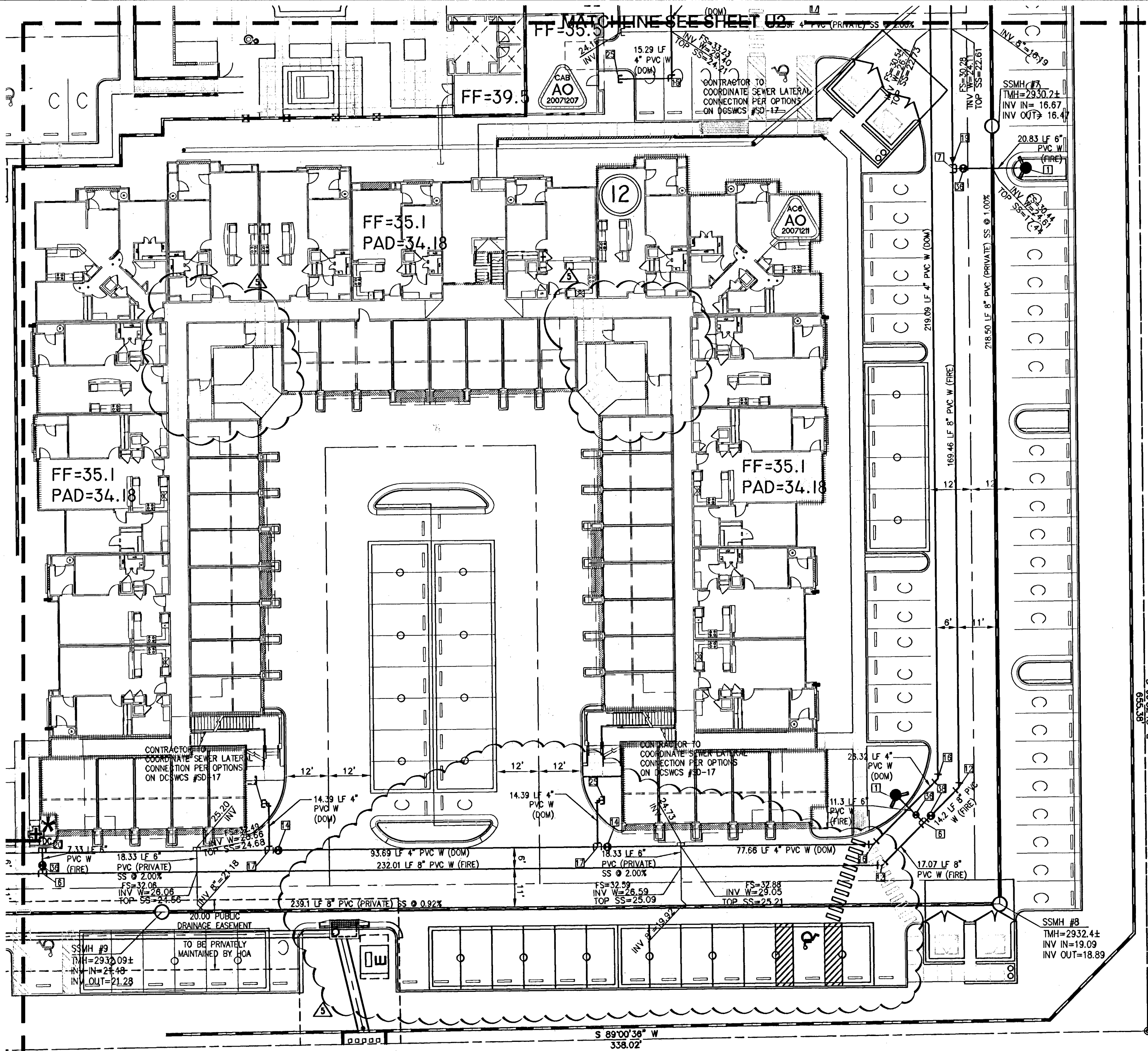


MATCHLINE SEE SHEET U3

MATCHLINE SEE SHEET U4

MATCHLINE SEE SHEET U7



PARCEL NUMBER: 126-25-201-013
OWNER: USA
UNDEVELOPED

PARCEL NUMBER: 126-25-201-009
OWNER: USA
UNDEVELOPED

FIRE FLOW CALCULATIONS

FIRE FLOW CALCULATIONS ARE BASED UPON THE LARGEST BUILDING TYPE WHICH IS TYPE IV-B.

FIRE FLOW REQUIREMENTS IS 3,125 GALLONS PER MINUTE AT 20 PSI RESIDUAL PRESSURE.

BASED ON: 8100
SQUARE FOOTAGE (SF): 55,241 SF
LARGEST AREA BETWEEN 4-HOUR N/A
AREA SEPARATION WALLS (SF)
BUILDING HEIGHT (FT): 44
NUMBER OF STORIES (FLOOR): 3
NUMBER OF UNITS: 4
TYPE OF CONSTRUCTION: II-B
FULL AUTOMATIC FIRE SPRINKLER SYSTEM: YES ENO
REVIEWED BY: [Signature] DATE: 5/28/09
BASED ON THE 2003 NFPA-1 UNIFORM FIRE CODE

ONSITE SEWER

ALL ON SITE SEWER SYSTEM IS PRIVATE AND SHALL BE PRIVATELY MAINTAINED.

NOTE TO CONTRACTOR

REFER TO IRRIGATION PLANS BY IMA DESIGN FOR SLEEVES LOCATIONS AND SIZES.

SEWER CONTRIBUTION

Avg. FLOW = 0.0725 MGD = (414 UNITS) x (175 GPD) x (0.00001 MGD/GPD)
PEAK FLOW = 0.2463 MGD = (3.4 Peak Factor) x (0.0725 MGD)

NOTE

1. ALL ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF TITLE 19.12.040
2. METERS MUST BE SET IN A HORIZONTAL POSITION. AT LEAST EIGHT (8) DIAMETERS OF STRAIGHT PIPE ARE REQUIRED AT THE INLET END.

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 MINIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDCMS 2.08.01 AND 2.08.02.

FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.

SERVICE LATERALS

SERVICE LATERALS FOR LOTS WILL BE TAPPED ON EXISTING MAIN BY OWNER'S CONTRACTOR UNDER DIRECTION OF THE LVWD.

BENCHMARK

CLV BENCHMARK: 8LV90 30W4 NAVD 88x2002 ELEVATION 834.8354 (METERS), 2738.30 (FEET).

RIVET AND PLATE IN CONCRETE PAD (ELEC) NE CORNER OF HUAMAPAI & TROPICAL PARKWAY.

CALL BEFORE YOU DIG
UNDERGROUND
TRAFFIC SIGNALS AND
STREET LIGHT SYSTEM
CONDUITS-IT'S COSTLY

Call before you Dig
AVOID CUTTING UNDERGROUND
UTILITY LINES. IT'S COSTLY.

Call before you Dig
UNDERGROUND
TRAFFIC SIGNALS AND
STREET LIGHT SYSTEM
CONDUITS-IT'S COSTLY

EXISTING UTILITIES

EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S 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 PROPER LOCATION.

CALL BEFORE YOU DIG: 1-800-227-2800.

UTILITY LEGEND

EX 8" W	EXISTING WATER LINE W/SIZE
4" PVC WTR	EXISTING GATE VALVE
8" PVC WTR	PROPOSED DOMESTIC WATER LINE W/SIZE
PROPOSED FIRE WATER LINE W/SIZE	PROPOSED DCCA
PROPOSED RPPA	PROPOSED WATER METER AND VAULT
PROPOSED FIRE HYDRANT ASSEMBLY PER UDCMS PLATE 7	EXISTING SEWER LINE W/SIZE
EX 8" SS	EXISTING SEWER MANHOLE
8" SS	PROPOSED SEWER LATERAL
PROPOSED SEWER LINE W/SIZE	PROPOSED SEWER MANHOLE
PROPOSED SEWER MANHOLE	0" UP DRIVEWAY OR HANDICAP PARKING
REDUCER	INSTALL NEVADA POWER RS-35 OR EQUAL

ABANDONED VALVES CUT AND CAP

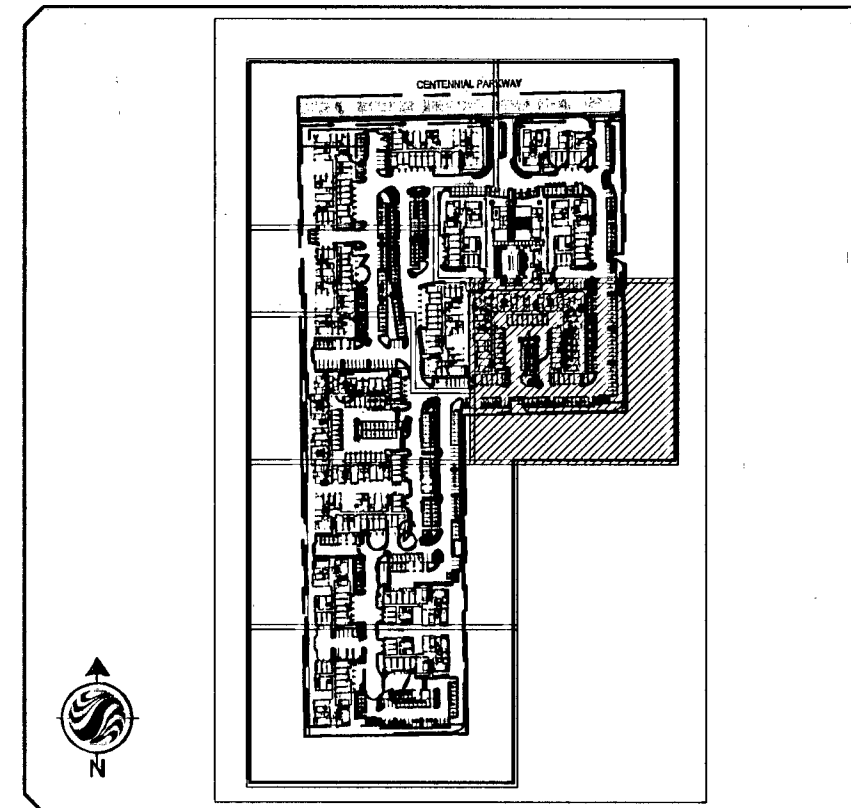
ALL VALVES TO BE ABANDONED SHALL BE ABANDONED IN THE CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF THE TOP TWENTY-FOUR (24) INCHES OF THE VALVE BOX, AND THEN FILLING THE BOTTOM OF THE BOX WITH A MINIMUM OF EIGHT (8) INCHES OF SAND OR TYPE II AGGREGATE BASE. THE REMAINING PORTION OF THE VALVE BOX SHALL BE FILLED WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST TWO THOUSAND (2,000) PSI. THE LATERAL MUST BE CUT WITHIN THREE (3) FEET OF THE ABANDONED VALVE, OR AS SHOWN ON PLANS, AND CAPPED. THE CONTRACTOR SHALL CUT THE EXISTING PIPE WHERE SHOWN ON THE DRAWING AND INSTALL A CAP COMPLETE WITH THRUST BLOCK. WHERE A JOINT OR COUPLING IN THE EXISTING PIPE IS UNCOVERED AT THE CUT AND CAP LOCATION, THE INSTALLATION OF A PLUG MAY BE PERMITTED WITH DISTRICT APPROVAL. A CONCRETE THRUST BLOCK SHALL BE INSTALLED AT ALL CAP OR PLUG LOCATIONS IN ACCORDANCE WITH THE PROVISIONS OF UDCMS PLATE 5.

GENERAL NOTES

1. THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 P.S.I. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE REDUCING VALVES BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 P.S.I. PRIVATE ARE THE DEVELOPER'S RESPONSIBILITY AND WILL NOT BE INSPECTED OR NOT INCLUDED IN THE ACCEPTANCE OF LVWD FACILITIES. WATER & SEWER ARE PUBLIC UTILITIES. THE INTERIOR
2. ALL PRIVATE STREETS AND PRIVATE DRIVES ARE P.U.E.S., AND PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.
3. CONTRACTOR TO MAINTAIN MINIMUM 24" COVER OVER WATER LINES DURING CONSTRUCTION OPERATIONS.
4. INSTALL PIPELINE MARKER BILLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER UDCMS PLATE 27.
5. ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.19 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDCMS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
6. VERIFY ALL STREET NAMES, LOT NUMBERS, AND BLOCK NUMBERS WITH FINAL MAP.
7. ALL ON-SITE SEWER AND WATER ARE PRIVATE, TO BE PRIVATELY MAINTAINED.
8. ALL NON-POTABLE FIRE WATER LINES CROSSING POTABLE DOMESTIC WATER LINES ARE TO BE INSTALLED WITH "A VERTICAL SEPARATION NO LESS THAN SIX INCHES..." AND IN ACCORDANCE WITH UDCMS 2.20.01, 2.04.05, 2.19.02.B1, 2.19.02.B2.

APPROVALS

DATE: 5/28/09
CITY OF LAS VEGAS



KEY MAP
NOT TO SCALE

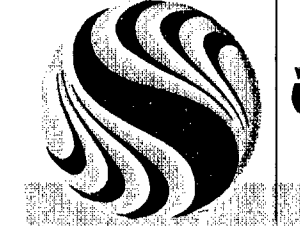
FIRE WATER AT DOMESTIC WATER CROSSINGS

ALL NON-POTABLE FIRE WATER LINES CROSSING POTABLE DOMESTIC WATER LINES ARE TO BE INSTALLED WITH "A VERTICAL SEPARATION NO LESS THAN SIX INCHES..." AND IN ACCORDANCE WITH UDCMS 2.20.01, 2.04.05, 2.19.02.B1, 2.19.02.B2.

WATER FITTINGS LEGEND

11 FIRE HYDRANT ASSEMBLY PER UDCMS PLATE 7	21 12"x3" REDUCER
12 8" DCCA PER UDCMS PLATE 11C	22 10"x10" TEE
13 3" TURBINE METER AND VAULT PER UDCMS PLATE 18A AND DWG. C-475	23 10"x8" TEE
14 4" RPPA PER UDCMS PLATE 11C	24 12"x12" MJ TAPPING SLEEVE WITH 12" TAPPING VALVE PER UDCMS PLATE NO. 8 & 22
15 12"x12" SERVICE SADDLE PER UDCMS PLATE NOT 10	25 4" STUB PER UDCMS PLATE NO. 5
16 8"x8" TEE	26 2" IRRIGATION METER PER UDCMS 10
17 10"x8" TEE	27 2" 90° BEND
18 12"x10" TEE	28 12"x12" TEE
19 10" 90° BEND	29 12"x8" REDUCER
10 45° BEND	30 8"x4" REDUCER
11 8" 90° BEND	31 4"x3" REDUCER
12 8" 45° BEND	32 12" GATE VALVE
13 8" TEE	33 2" RPPA PER UDCMS PLATE NO. 11A
14 4" GATE VALVE	34 2" STUB
15 4" 90° BEND	35 12" CUT-IN ISOLATION VALVE
16 4" 45° BEND	36 6" GATE VALVE
17 4" TEE	37 10" GATE VALVE
18 8"x8" 90° BEND	38 8" GATE VALVE
19 10"x8" REDUCER	39 12"x8" TAPPING SLEEVE AND 6" GATE VALVE
20 6" STUB	40 FIRE HYDRANT ASSEMBLY PER UDCMS PLATE 7 CONDITION A

Stantec Consulting Inc.
7251 West Charleston Boulevard
Las Vegas, NV
89117
Tel. 702.258.0115
Fax. 702.258.4956
www.stantec.com



The Contractor shall verify and be responsible for all dimensions shown on the drawing. The drawing is not to be used for construction without the approval of the Engineer. The Engineer is not responsible for the accuracy of the drawing. The Engineer is not responsible for the accuracy of the drawing. The Engineer is not responsible for the accuracy of the drawing.

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Client/Project
FAIRFIELD CENTENNIAL, LLC

CENTENNIAL CONDOMINIUMS
CITY OF LAS VEGAS, NV

UTILITY PLANS



Project Number: 188100435
File Name: 00435c-101util.dwg

DWN CHKD DSCN DATE
EA/NW SA/NW EA/NW 5/28/2009
Drawing No. U4
CLV# 107Y4987
Revision Sheet

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