

WATER CONSTRUCTION NOTES

ITEM	QUANTITY		
	UNIT	PUBLIC	PRIVATE
1. INSTALL FIRE HYDRANT ASSEMBLY PER UDS PLATE NO. 7	EA	-	8
2. INSTALL 8" PVC (CLASS 150) WATER LINE	LF	600	2689
3. INSTALL 6" PVC (CLASS 150) WATER LINE	LF	-	103
4. INSTALL 4" PVC WATER LINE	LF	-	1559
5. INSTALL 2" WATER SERVICE	LF	-	1004
6. INSTALL 1-1/2" WATER SERVICE	LF	-	365
7. NOT IN USE 8"	EA	-	-
8. INSTALL 8" REDUCED PRESSURE PRINCIPLE ASSEMBLY (RPPA) PER UDACS PLT. 11C	EA	2	-
9. ABANDON EX. 8" CDDA AND INSTALL 6" X 3" TYPE I FSM PER UDS PLT. NO. 21C	EA	2	-
10. INSTALL 8" X 8" TEE W/THRUST BLOCK PER UDS PLT. NO. 5	EA	1	4
11. INSTALL 8" X 6" TEE W/THRUST BLOCK PER UDS PLT. NO. 5	EA	-	8
12. INSTALL 8" X 4" TEE W/THRUST BLOCK PER UDS PLT. NO. 5	EA	-	25
13. INSTALL 8" 90° BEND W/THRUST BLOCK PER UDS PLT. NO. 5	EA	-	6
14. INSTALL 8" X 6" REDUCER	EA	-	4
15. INSTALL 8" GATE VALVE	EA	1	8
16. INSTALL 8" MANUAL BLOW-OFF ASSEMBLY PER UDS PLT. NO. 4A	EA	1	2
17. INSTALL 1-1/2" SERVICE SADDLE	EA	-	23
18. INSTALL 2" SERVICE SADDLE	EA	-	21

SEWER CONSTRUCTION NOTES

ITEM	QUANTITY		
	UNIT	PUBLIC	PRIVATE
1. INSTALL 48" DIA. SANITARY SEWER MANHOLE PER STD. DWG. NO. SD-1	EA	1	11
2. INSTALL 8" PVC (SDR-35) SEWER MAIN	LF	-	2275
3. INSTALL 4" PVC (SDR-35) SEWER LATERAL	LF	-	1329
4. INSTALL 4" SANITARY SEWER CLEANOUT	EA	-	48

NOTE:
 ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH UDACS SECTION 3.13.01, AND APPROVED BY THE LVVWD INSPECTION DIVISION PRIOR TO SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.

AVERAGE = 3402 FU x 0.45 ERU x 250 GPD = 0.3827 MGD
 FU ERU
 PEAK = 3.4 x 0.3827 = 1.3012 MGD

ABANDONED VALVES NOTE

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.

FIRE FLOW CALCULATIONS

N/A
 FIRE FLOW REQUIREMENT IS 1750 GALLONS PER MINUTE AT 20 PSI RESIDUAL PRESSURE.
 BASED ON:
 SQUARE FOOTAGE: 16,182 SQUARE FEET
 LARGEST AREA BETWEEN 4-HOUR: N/A SQUARE FEET
 AREA SEPARATION WALLS: 35' MAX
 BUILDING HEIGHT: 2 FLOORS
 NUMBER OF STORIES: V-B
 TYPE OF CONSTRUCTION: R
 OCCUPANCY: R
 FULL AUTOMATIC FIRE SPRINKLER SYSTEM: YES
 REVIEWED BY: [Signature] DATE: 12/7/06
 LAS VEGAS FIRE DEPT.

BENCHMARK
 8000 13SES-2 IN BRASS CAP IN THE TOP OF CURB @ NW CORNER OF DECATUR & SMOKE RANCH ELEVATION = 672.27 METERS (2205.60 FEET) NAVD88

APPROVALS

[Signature] 12/21/07
 LAS VEGAS VALLEY WATER DISTRICT
 PROJECT 113444 SHEET UT1, UT2, UT3
 DATE 12/21/07

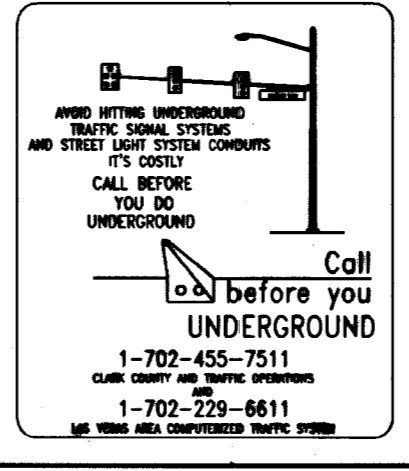
[Signature] 12/7/06
 CITY OF LAS VEGAS FIRE MARSHAL
 FIRE FLOW REQUIREMENT IS 1750 GALLONS PER MINUTE AT 20 PSI RESIDUAL
 DATE 12/7/06

BASIS OF BEARING

NORTH 02°27'23" EAST - THE CENTERLINE OF DECATUR BOULEVARD AS SHOWN ON AMENDED PARCEL MAP IN FILE 98, PAGE 79, CLARK COUNTY RECORDS, NEVADA.

DISCLAIMER NOTE

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 LOCATION.



CLV DWG = 107N4783

CUT AND CAP
 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 LOCATIONS, 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 UDACS PLATE 5.

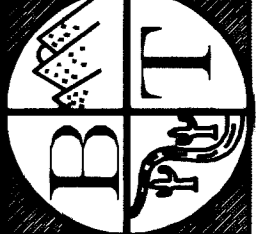
NOTE:
 THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE-REDUCING VALVES BE INSTALLED WHEN-EVER THE PRESSURE EXCEEDS 80 PSI. PRIVS ARE THE DEVELOPER'S RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES.

NOTE:
 THE DISTRICT CANNOT GUARANTEE A WATERLIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE FLUENT WATER THAT MAY IMPIDE 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.

NOTE:
 ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.19 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.

TMF INVESTMENTS
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 NEWPORT BEACH, CA 92660
 FAX: 949-850-1076

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 CIVIL ENGINEERS
 LAND SURVEYORS
 1210 HINSON STREET
 LAS VEGAS, NEVADA 89102
 (702) 878-2695
 (702) 870-8771



DECATUR VILLAGE APARTMENTS
 UTILITY PLAN
 SECTION 13, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.B. & M. CITY OF LAS VEGAS
 DECATUR BLVD AND MADRE MESA DRIVE

SHEET
UT3
 OF
8 of 12
 PROJ. NO.
 Decatur Village

106703
 99542cc