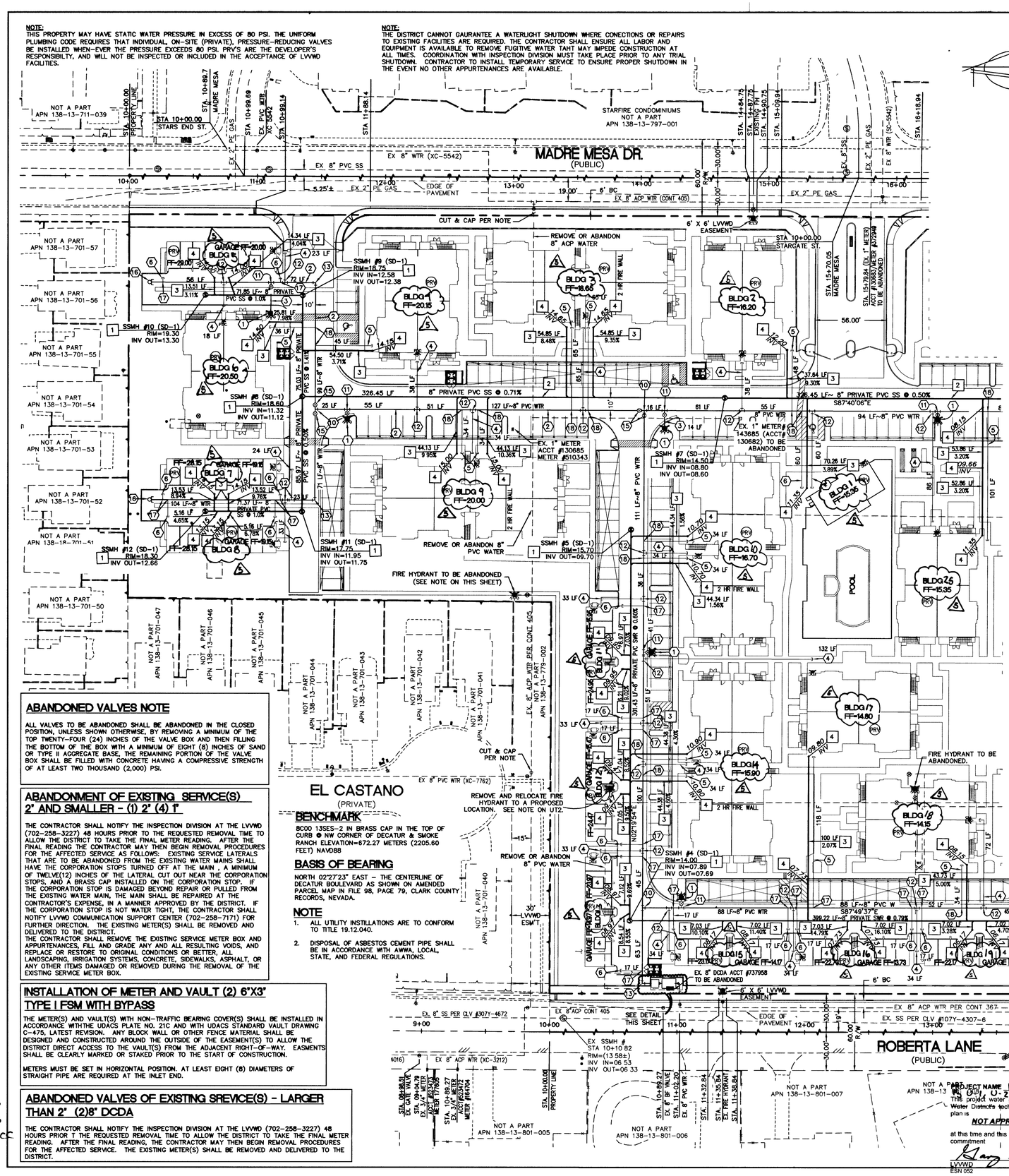
NOTE:
THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE-REDUCING VALVES BE INSTALLED WHEN-EVER THE PRESSURE EXCEEDS 80 PSI. PRV'S ARE THE DEVELOPER'S RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN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

NOTE:
THE DISTRICT CANNOT GAURANTEE A WATERLIGHT SHUTDOWN WHERE CONECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE FUGITIVE WATER TAHT 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.



GRAPHIC SCALE

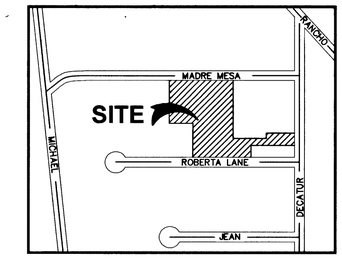
(IN FEET)
1 inch = 40 ft.

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" DCDA 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

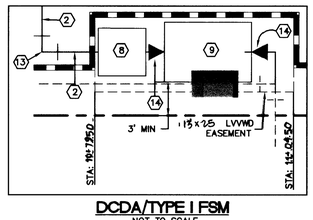


VICINITY MAP
NO SCALE

LEGEND

- PROPERTY LINE
- STREET CENTERLINE
- PROPOSED "L" CURB & GUTTER
- EXISTING "L" CURB & GUTTER
- PROPOSED "A" CURB & GUTTER
- EXISTING BLOCK WALL
- PROPOSED EDGE OF PAVEMENT
- EXIST. EDGE OF PAVEMENT
- WATER CONSTRUCTION NOTE
- SEWER CONSTRUCTION NOTE
- PROPOSED FIRE HYDRANT ASSY.
- EXISTING FIRE HYDRANT
- PROPOSED GATE VALVE
- PROP. WTR — PROPOSED WATERLINE
- EX. WTR — EXISTING WATERLINE
- PROPOSED SEWER MANHOLE
- EXISTING SEWER MANHOLE
- PROPOSED SEWER LATERAL W/CLEANOUT
- PROPOSED WATER LATERAL
- PROPOSED FIRE DEPARTMENT CONNECTION LOCATION
- PRV — PRESSURE REDUCING VALVE

PROFESSIONAL ENGINEER - STATE OF NEVADA
KENNETH T YAMADA
Exp. 6-30-08
CIVIL
No. 14684
5/7/08



DCDA/TYPE I FSM
NOT TO SCALE

PRIVATE MANHOLE SCHEDULE					
MANHOLE	TYPE	RIM	INV IN	INV OUT	DEPTH
SSMH #1	SD-1	09.3±	01.58	01.38	08.33
SSMH #2	SD-1	10.80	03.00	02.80	08.00
SSMH #3	SD-1	11.70	04.55	04.35	07.35
SSMH #4	SD-1	14.00	07.89	07.69	06.31
SSMH #5	SD-1	15.70	–	09.70	06.00
SSMH #6	SD-1	13.10	06.97	06.77	06.35
SSMH #7	SD-1	14.50	08.80	08.60	05.90
SSMH #8	SD-1	18.60	11.32	11.12	07.48
SSMH #9	SD-1	18.75	12.58	12.38	06.37
SSMH #10	SD-1	19.30	–	13.30	06.00
SSMH #11	SD-1	17.75	11.95	11.75	06.00
SSMH #12	SD-1	18.30	–	12.66	05.64

FIRE FLOW CALCULATIONS

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 AREA SEPARATION WALLS: N/A SQUARE FEET
BUILDING HEIGHT: 35' MAX
NUMBER OF STORIES: 2 FLOORS
TYPE OF CONSTRUCTION: V-B
OCCUPANCY: R
FULL AUTOMATIC FIRE SPRINKLER SYSTEM: ☒ YES ☐ NO
REVIEWED BY: Robert Bell DATE: 12/7/06
LAS VEGAS FIRE DEPT.

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.

ABANDONMENT OF EXISTING SERVICE(S) 2" AND SMALLER - (1) 2" (4) 1"

THE CONTRACTOR SHALL NOTIFY THE INSPECTION 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: EXISTING SERVICE LATERALS THAT ARE TO BE ABANDONED FROM THE EXISTING WATER MAINS SHALL HAVE THE CORPORATION STOPS TURNED OFF AT THE MAIN , A MINIMUM OF TWELVE(12) INCHES OF THE LATERAL CUT OUT NEAR THE CORPORATION STOPS, AND A BRASS CAP INSTALLED ON THE CORPORATION STOP. IF THE CORPORATION STOP IS DAMAGED BEYOND REPAIR OR PULLED FROM THE EXISTING WATER MAIN, THE MAIN SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, IN A MANNER APPROVED BY THE DISTRICT. IF THE CORPORATION STOP IS NOT WATER TIGHT, THE CONTRACTOR SHALL NOTIFY LVVWD COMMUNICATION SUPPORT CENTER (702-258-7171) FOR FURTHER DIRECTION. THE EXISTING METER(S) SHALL BE REMOVED AND DELIVERED TO THE DISTRICT.
THE CONTRACTOR SHALL REMOVE THE EXISTING SERVICE METER BOX AND APPURTENANCES, FILL AND GRADE ANY AND ALL RESULTING VOIDS, AND REPLACE OR RESTORE TO ORIGINAL CONDITIONS OR BETTER. ALL LANDSCAPING, IRRIGATION SYSTEMS, CONCRETE, SIDEWALKS, ASPHALT, OR ANY OTHER ITEMS DAMAGED OR REMOVED DURING THE REMOVAL OF THE EXISTING SERVICE METER BOX.

INSTALLATION OF METER AND VAULT (2) 6"X3' TYPE I FSM WITH BYPASS

THE METER(S) AND VAULT(S) WITH NON-TRAFFIC BEARING COVER(S) SHALL BE INSTALLED IN ACCORDANCE WITHTHE UDACS PLATE NO. 21C AND WITH UDACS STANDARD VAULT DRAWING C-475, LATEST REVISION. 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. EASMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

METERS MUST BE SET IN HORIZONTAL POSITION. AT LEAST EIGHT (8) DIAMETERS OF STRAIGHT PIPE ARE REQUIRED AT THE INLET END.

ABANDONED VALVES OF EXISTING SREVICE(S) - LARGER THAN 2" (2)8" DCDA

THE CONTRACTOR SHALL NOTIFY THE INSPECTION DIVISION AT THE LVVWD (702-258-3227) 48 HOURS PRIOR T 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. THE EXISTING METER(S) SHALL BE REMOVED AND DELIVERED TO THE DISTRICT.

REDUCED PRESSURE PRINCIPLE ASSEMBLY (2) 8" RPPA

APPROVED REDUCED PRESSURE PRINCIPAL ASSEMBLY(s) SHALL BE INSTALLED PER THE U.D.A.C.S. PLATE No. 11C. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPAL ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE L.V.V.W.D. 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 VAULTS FROM THE ADJACENT RIGHT-OF-WAY. EASEMTNT SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

RELOCATION OF PRIVATE FIRE HYDRANTS (4)

(EXTENSION OF EXISTING LATERAL)
THE CONTRACTOR SHALL REMOVE AND RELOCATE BOTH THE UPPER AND LOWER BARRELS OF THE EXISTING FIRE HYDRANT(S) WHERE SHOWN, EXTEND THE EXISTING LATERAL AS REQUIRED, AND REINSTALL SUCH HYDRANT(S) AT THE NEW LOCATION(S) INDICATED. 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 7. LATERALS MADE OF UNAPPROVED MATERIALS SHALL BE REPLACED FROM THE MAIN TO THE FIRE HYDRANT. RELOCATIONS WHERE THE LATERAL CANNOT BE EXTENDED SHALL BE TESTED AS NEW INSTALLATIONS.

FIRE HYDRANT AND LATERAL ABANDONMENT

WHERE SHOWN ON THE DRAWING, THE CONTRACTOR SHALL ABANDON THE EXISTING FIRE HYDRANT(S) BY REMOVING BOTH THE UPPER AND LOWER FIRE HYDRANT BARRELS SO THAT NO PORTION OF THE REMAINING FIRE HYDRANT ASSEMBLY IS CLOSER THAN TWO(2) FEET TO THE EXISTING GRADE. THE EXISTING HYDRANT SHALL BE DELIVERED TO THE DISTRICT. THE EXISTING VALVE SHALL BE ABANDONED IN A 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 REMAINING PORTION OF THE LATERAL SHALL BE CUT WITHIN THREE(3) FEET OF THE ABANDONED VALVE, OR AS SHOWN ON PLANS, AND CAPPED. THE EXISTING CONCRETE HYDRANT PAD SHALL BE REMOVED.

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.

AVERAGE = 3402 FU x 0.45 ERU x 250 GPD / FU ERU = 0.3827 MGD

PEAK = 3.4 x 0.3827 = 1.3012 MGD

1ST MPD 10/25/07
LAS VEGAS VALLEY WATER DISTRICT — DATE 10/31/07
PROJECT #113444 SHEET UT1,UT2, UT3

11/7/07

Robert Bell
CITY OF LAS VEGAS FIRE MARSHAL — DATE 12/7/06

FIRE FLOW REQUIREMENT IS 1750 GALLONS PER MINUTE AT 20 PSI RESIDUAL

PROJECT NAME Decatur Village Apt
This project water plan complies with the Las Vegas Valley Water District's technical requirements However, this water plan is
NOT APPROVED FOR CONSTRUCTION
at this time and this signature does not provide or imply a water commitment
LVVWD — DATE 12/07/06
ESN 052
REVISED 06/01/04

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.

AVOID MEETING UNDERGROUND TRAFFIC SIGNAL SYSTEMS AND STREET LIGHT SYSTEM CONDUITS IT'S COSTLY
CALL BEFORE YOU DO UNDERGROUND
Call before you UNDERGROUND
1-702-455-7511 CLARK COUNTY AND TRAFFIC OTHERWISE
1-702-229-6611 LAS VEGAS AREA CONSTRUCTION TRAFFIC SYSTEM

Avoid cutting underground utility lines. It's costly.
Call before you Dig
1-800-227-2600 UNDERGROUND SERVICE (USA)

Avoid overhead power line contact
Call before you OVERHEAD
1-702-227-2929 NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT

CLV DWG # 107V4783

PROFESSIONAL ENGINEER - STATE OF NEVADA
MICHAEL H. PREATOR
Exp. 12-31-07
CIVIL
No. 14982
11/7/06

DATE	No.	REVISIONS	APP'D
5/1/08	4	REVISED PLAN SET	KS

PREPARED FOR :
TMF INVESTMENT
1048 IRVINE AVE #643
NEWPORT BEACH, CA 92660
PHONE:(702)733-0176
FAX 920-8501

DATE	DECEMBER 2006
DESIGN	JSR
DRAWN	UFH
CHECK	LHP
SCALE	1"=40'

BAUGHMAN & TURNER, INC.
CIVIL ENGINEERS — LAND SURVEYORS — LAND PLANNERS
1210 HINSON STREET (702) 870-8771 — LAS VEGAS, NEVADA (702)878-2695

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

SHEET **UT1** OF **6 of 12**
PROJ. NO. Decatur Village