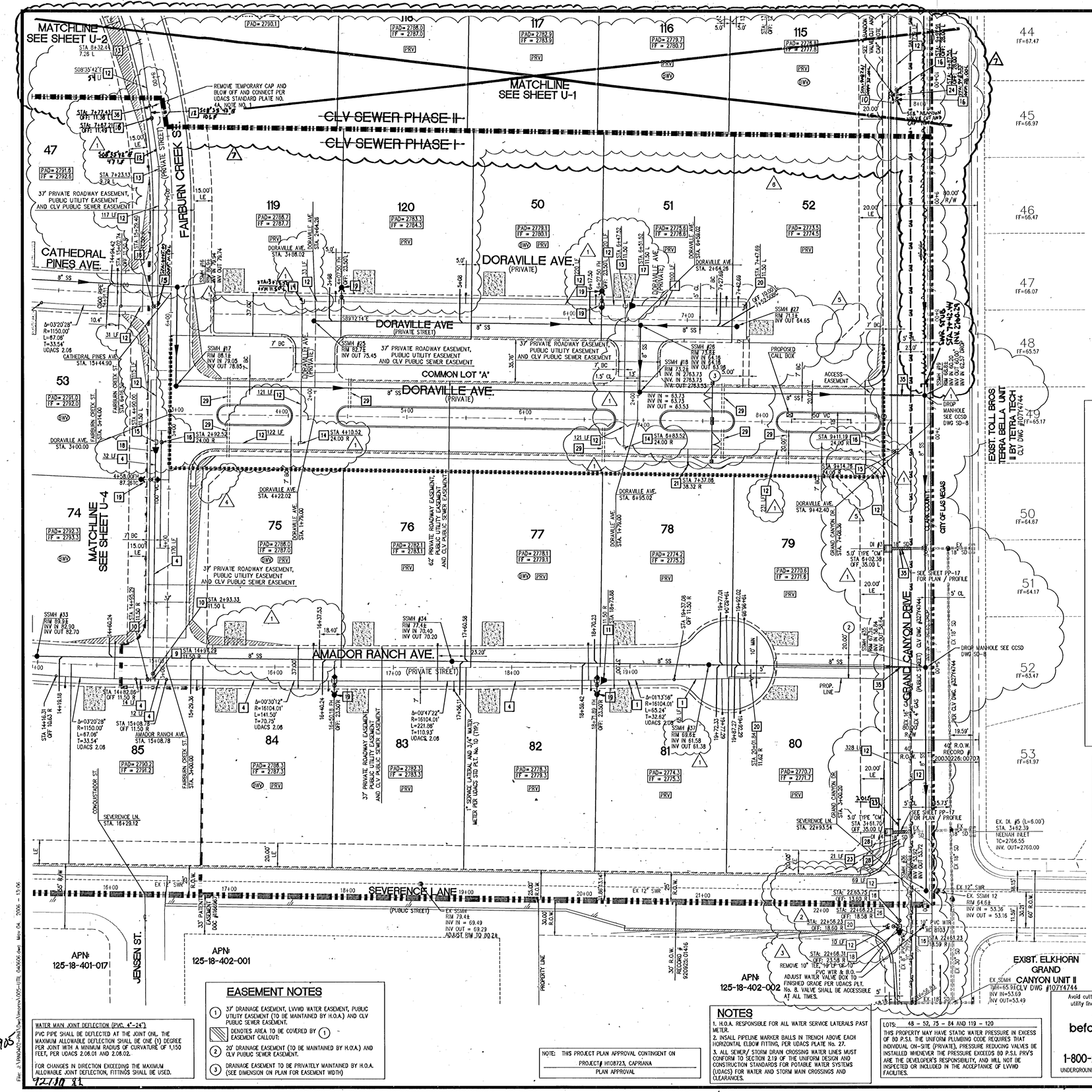
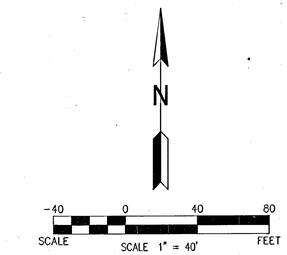
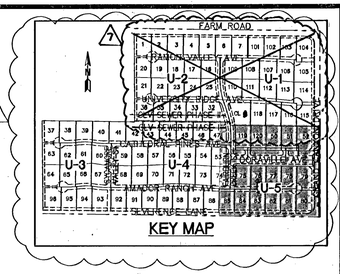






LEGEND

- LOT LINE
- STREET CENTERLINE
- X" PVC W — WATER LINE
- CHANGE IN WATER LINE DIRECTION (MAX 1° DEFLECTION AT JOINT ONLY)
- SEWER LINE W/FLOW DIRECTION ARROW
- EX X" PVC W — EXISTING WATER LINE
- EX X" SWR — EXISTING SEWER LINE
- BWV — BACK WATER VALVE
- 1" SERVICE LATERAL AND 1" WATER METER PER UDACS STD PLT. NO. 1-D
- SEWER LATERAL
- 32 SSMH — LOT NUMBER; SANITARY SEWER MANHOLE
- BLUE REFLECTIVE MARKER PER [97 UFC SEC. 901.4.3]
- VALVE (NEW)
- FIRE HYDRANT (NEW)
- VALVE (EXISTING)
- FIRE HYDRANT (EXISTING)
- DENOTES "L" CURB AND GUTTER
- POINT OF CONNECTION

WATERLINE NOTES

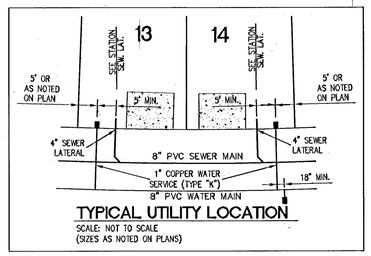
1. 8" PVC WATER LINE
2. 8" 11.25° BEND
3. 8" GATE VALVE
4. 8" PVC WATER LINE
5. 8" D.I.P. WATER LINE
6. 8" 11.25° BEND
7. 8" 22.5° BEND
8. 8" 90° BEND
9. 8" TEE
10. 8" GATE VALVE
11. 8" x 6" REDUCER
12. 10" PVC WATER LINE
13. 10" 11.25° BEND
14. 10" 90° BEND
15. 10" TEE
16. 10" GATE VALVE
17. 10" x 6" REDUCER
18. 10" x 8" REDUCER
19. FIRE HYDRANT ASSEMBLY W/6" GATE VALVE PER UDACS STD. PLT. NO.7
20. CAP AND 2" BLOW OFF ASSEMBLY PER UDACS STD PLT NO. 4A
21. 1" IRRIGATION SERVICE W/1" METER AND 1" RPPA PER UDACS STD PLT. NO. 1-D AND 11-A
22. REMOVE CAP AND BLOW OFF PER UDACS PLATE No. 4A, NOTE No. 1, AND CONNECT TO EXISTING MAIN (FIELD VERIFY INVERT)
23. 10" D.I.P. WATER LINE
24. 10"x 8" TEE
25. 10"x 6" TEE
26. 10" CROSS
27. 10" x 10" MJ TAPPING SLEEVE W/ 10" TAPPING VALVE PER UDACS 22
28. 10" 45° VERTICAL JOINT PER UDACS PLT. No. 15
29. IRRIGATION SLEEVES
30. 10" 22.5° BEND
33. 8" X 6" TEE
34. 8" 5° BEND W/ RESTRAINT JOINTS
35. CONCRETE ENCASE PER UDACS SEC. 2.19
36. INSTALL TEMP. CAP AND 2" BLOW OFF ASSEMBLY PER UDACS STD PLT NO. 4A

REDUCED PRESSURE PRINCIPLE ASSEMBLY (1) 1"

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE No. 11A. 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.



TYPICAL UTILITY LOCATION

SCALE: NOT TO SCALE
(SIZES AS NOTED ON PLANS)

FIRE DEPARTMENT NOTES

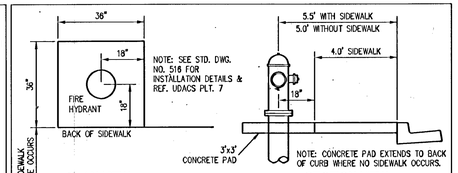
1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE 1997 EDITION OF THE UNIFORM FIRE CODE, AND THE 1995 EDITION OF NATIONAL FIRE PROTECTION ASSOCIATION PAMPHLET #24
2. ON ANY BUILDING CONSTRUCTION, ACCESSIBLE FIRE HYDRANTS SHALL BE INSTALLED BEFORE COMBUSTIBLE MATERIALS ARE DELIVERED TO THE SITE AND CONSTRUCTION COMMENCES. SAID FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER WITH THE REQUIRED WATER SUPPLY.
3. IF DURING CONSTRUCTION IT BECOMES NECESSARY TO CLOSE ANY CONTROL VALVE OR PLACE A HYDRANT OUT OF SERVICE, THE CLARK COUNTY FIRE DEPARTMENT MUST BE CONTACTED.
4. PAINTING OF CURBS AND/OR STRIPING OF ASPHALT AREAS AND PROTECTION OF HYDRANTS FROM PHYSICAL INJURY PER FIRE HYDRANT INSTALLATION SPECIFICATIONS OF THE FIRE PREVENTION BUREAU.
5. NO FIRE HYDRANT SHALL BE LOCATED WITHIN 25 FEET OF ANY STRUCTURE, OR 5 FEET OF A DRIVEWAY, POWER POLE, LIGHT STANDARD, OR ANY OTHER OBSTRUCTION. FOR WALL, FENCE AND PLANTER LOCATIONS, A PERIMETER AROUND THE HYDRANT MEASURING A MINIMUM OF 3 FEET FROM ITS EXTERIOR SHALL BE MAINTAINED CLEAR OF ALL OBSTRUCTION AT ALL TIMES.
6. AT ALL TIMES DURING CONSTRUCTION SUITABLE EMERGENCY VEHICLE ACCESS ROAD MUST BE MAINTAINED. ROADWAYS MUST BE SMOOTH, COMPACTED AND CAPABLE OF SUPPORTING THE IMPOSED LOADS OF ALL EMERGENCY VEHICLES.
7. PRIOR TO ACCEPTANCE OF ANY FIRE SERVICE MAIN, A SATISFACTORY HYDROSTATIC TEST WITH PIPING JOINTS UNCOVERED MUST BE CONDUCTED. APPROVED PLANS AND A CONTRACTOR'S MATERIALS AND TEST CERTIFICATE MUST BE PROVIDED AT TIME OF INSPECTION.
8. BLUE REFLECTIVE MARKERS MUST BE INSTALLED BEFORE FINAL HYDRANT ACCEPTANCE CAN BE ATTAINED [97 UFC SEC. 901.4.3].

FIRE DEPARTMENT DATA

FIRE FLOW REQUIREMENT: 2250 GALLONS PER MINUTE AT 20 PSI RESIDUAL PRESSURE.
BASED ON:
SQUARE FOOTAGE: LESS THAN 7700 SQUARE FEET
OCCUPANCY: SINGLE FAMILY RESIDENCE
BUILDING DETAIL: V-B R3-U1 N

ABANDON VALVE CUT AND CAP

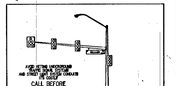
ALL VALVES TO BE ABANDONED SHALL BE ABANDONED IN THE CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF THE TOP TWENTY-FOUR (24) INCHES OF THE VALVE BOX, AND THEN FILLING THE BOTTOM OF THE BOX WITH A MINIMUM OF EIGHT (8) INCHES OF SAND OR TYPE II AGGREGATE BASE, THE REMAINING PORTION OF 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 THE 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. ESN.033



FIRE HYDRANT LOCATION DETAIL

SCALE: NOT TO SCALE

.2975 WATER PRESSURE ZONE



COUNTY OF CLARK
FIRE DEPARTMENT
APPROVED
BY: [signature] 5/4/06
APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS.
FIRE FLOW 2250 GPM AT 20 P.S.I. RESIDUAL.

APPROVED FOR CONSTRUCTION 1st. App'd 7-11-05
[signature] 5-10-06
LAS VEGAS VALLEY WATER DISTRICT DATE
PROJECT # H108887

EASEMENT NOTES

1. 37' DRAINAGE EASEMENT, LVVWD WATER EASEMENT, PUBLIC UTILITY EASEMENT (TO BE MAINTAINED BY H.O.A.) AND CLV PUBLIC SEWER EASEMENT.
   DENOTES AREA TO BE COVERED BY (1) EASEMENT CALLOUT:
2. 20' DRAINAGE EASEMENT (TO BE MAINTAINED BY H.O.A.) AND CLV PUBLIC SEWER EASEMENT.
3. DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED BY H.O.A. (SEE DIMENSION ON PLAN FOR EASEMENT WIDTH)

WATER MAIN JOINT DEFLECTION (PVC, 4"-24")

PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONL. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MINIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDACS 2.06.01 AND 2.06.02.

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

NOTE: THIS PROJECT PLAN APPROVAL CONTINGENT ON PROJECT# H108723, CAPRIANA PLAN APPROVAL

NOTES

1. H.O.A. RESPONSIBLE FOR ALL WATER SERVICE LATERALS PAST METER.
2. INSALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER UDACS PLATE No. 27.
3. ALL SEWER/ STORM DRAIN 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.

LOTS: 48 - 52, 75 - 84 AND 119 - 120

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. PRV'S ARE THE DEVELOPER'S RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES.

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

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY
CALL BEFORE YOU DO OVERHEAD
1-702-227-2929

SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

NO.	DESCRIPTION	DATE	BY	APP.
1	REVISED WTR, SWR & GAS MAINS	08/22/05	DMB	
2	REVISED DRWY AND UTIL LATL LOCATION	09/14/05	DMB	
3	REVISED WTR LINE & QUANTITIES	10/06/05	DMB	
4	REVISED WTR LINE	10/14/05	DMB	
5	REVISED EASEMENT LINE	9/12/05	DMB	
6	REVISED ENTRY EASEMENT LINE	04/10/06	DMB	
7	REVISED LOT LAYOUT	4/21/06	DMB	
8	REMOVED CLV PHASE II LINE	4/21/06	DMB	

CLARK COUNTY, NEVADA

PINNACLE HOMES
SABLE CREEK
UTILITY PLAN V

SECTION 18
TOWNSHIP 19 SOUTH
RANGE 60 EAST, M.D.M.

DATE: 07/07/05
DRAFTER: DMB
DESIGNER: DMB
CHECKED: TJS

PROJECT NO.
PIN0402-001

PROFESSIONAL ENGINEER - STATE OF NEVADA
TODD J. STEADHAM
Exp. 06/30/2006
CIVIL
No. 15293
5/4/06

U-5
SHEET 7 OF 44

CLV DWG # 307V930
CC HTE # 05-7995

REV-7

File: J:\PINNACLE-HOMES\SableCreek\Phase1\PDS-UTIL PLAN.DWG Date: May 04, 2006 - 13:06