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

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.

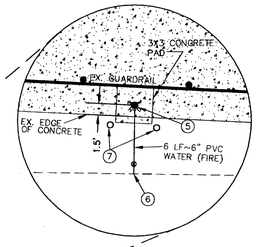
THE CONTRACTOR SHALL REMOVE THE EXISTING SERVICE METER BOX AND APPURTENANCES, FILL AND GRADE ANY AND ALL RESULTING VOIDS, AND REPLACE OR RESTORE TO ORIGINAL CONDITIONS OR BETTER, ALL LANDSCAPING, IRRIGATION SYSTEMS, CONCRETE, SIDEWALKS, ASPHALT, OR ANY OTHER ITEMS DAMAGED OR REMOVED DURING THE REMOVAL OF THE EXISTING SERVICE METER BOX. ESN.028

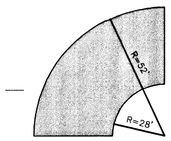
REMOVE DC AND ABANDON VAULT

THE CONTRACTOR WILL REMOVE THE TOP OF THE EXISTING VAULT AND RETURN THE EXISTING DC TO THE DISTRICT. THE OLD VAULT MAY BE ABANDONED IN PLACE BY SPOOLING THROUGH FROM WALL FLANGE TO WALL FLANGE, AND BACKFILLING TO THE JURISDICTIONAL AGENCY'S STANDARDS. ESN.016

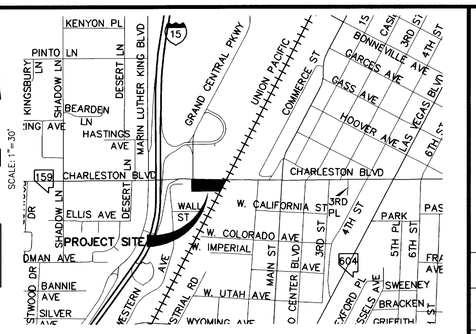
RELOCATE METER AND ABANDON VAULT

THE CONTRACTOR WILL REMOVE THE TOP OF THE EXISTING VAULT AND RELOCATE THE EXISTING METER TO THE NEW VAULT. THE OLD VAULT MAY BE ABANDONED IN PLACE BY SPOOLING THROUGH FROM WALL FLANGE TO WALL FLANGE, AND BACKFILLING TO THE JURISDICTIONAL AGENCY'S STANDARDS.

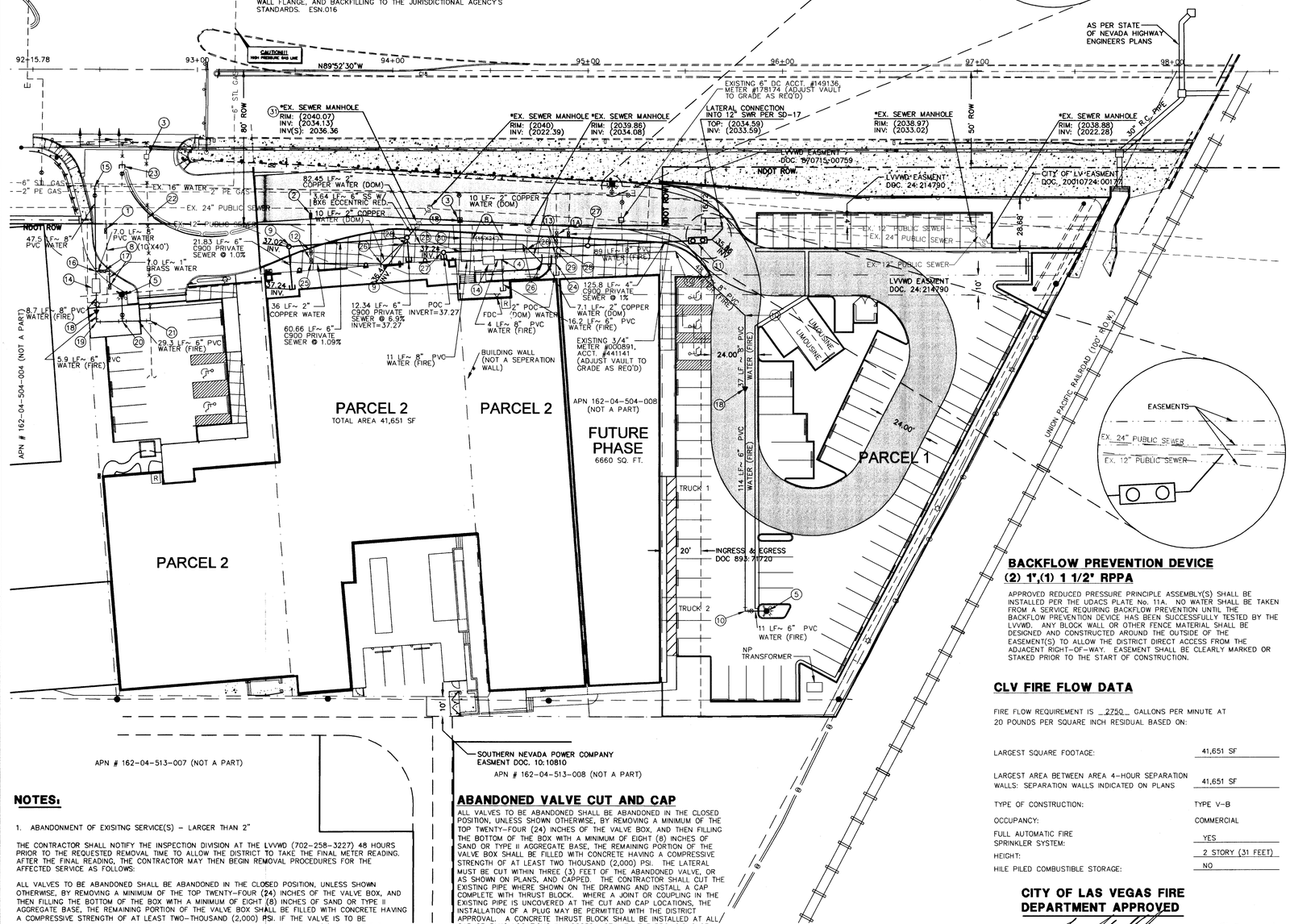




FIRE TRUCK TURNING RADIUS



VICINITY MAP



GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

LEGEND

- IMPROVEMENTS BY KHA, EXCLUDING UTILITIES
- CENTERLINE
- RIGHT-OF-WAY LINE
- PROPERTY LINE
- ADJACENT LOT LINE
- EXISTING EDGE OF A.C. PAVEMENT
- CONTOUR (5' INTERVAL)
- CONTOUR (1' INTERVAL)
- EXISTING SEWER LINE
- PROPOSED SEWER LINE
- PROPOSED SEWER CLEANOUT
- EXISTING WATER LINE
- PROPOSED WATER LINE
- PROPOSED GATE VALVE
- PROPOSED FIRE HYDRANT
- EXISTING EASEMENTS

LEGAL DESCRIPTION

PARCEL 1
THAT PORTION OF THE NORTHEAST QUARTER (NE ¼) OF SECTION 4, TOWNSHIP 21 SOUTH, RANGE 61 EAST, M.D.M., CLARK COUNTY, NEVADA, DESCRIBED AS:
COMMENCING AT THE NORTHEAST CORNER OF SECTION 4; THENCE NORTH 89°52'30" WEST, 523.37 FEET ALONG THE CENTERLINE OF CHARLESTON BOULEVARD; THENCE DEPARTING SAID CENTERLINE SOUTH 27°55'00" WEST, 73.48 FEET TO THE POINT OF BEGINNING; THENCE CONTINUING SOUTH 27°55'00" EAST, 299.55 FEET; THENCE NORTH 89°52'30" WEST, 89.51 FEET; THENCE NORTH 00°07'30" EAST, 272.52 FEET; THENCE SOUTH 85°34'58" EAST, 100.43 FEET; THENCE SOUTH 89°52'30" EAST, 129.03 FEET TO THE POINT OF BEGINNING:
CONTAINS 42,804 SQUARE FEET (0.98 ACRES) MORE OR LESS

PARCEL 2
THAT PORTION OF THE NORTHEAST QUARTER (NE ¼) OF SECTION 4, TOWNSHIP 21 SOUTH, RANGE 61 EAST, M.D.M., CLARK COUNTY, NEVADA, DESCRIBED AS:
COMMENCING AT THE NORTHEAST CORNER OF SECTION4; THENCE NORTH 89°52'30" WEST, 842.81 FEET ALONG THE CENTERLINE OF CHARLESTON BOULEVARD; THENCE DEPARTING SAID CENTERLINE, SOUTH 00°07'30" WEST, 80.01 FEET TO THE POINT OF BEGINNING: THENCE SOUTH 4° 12'00" EAST, 250.71 FEET; THENCE NORTH 89°52'30" WEST, 83.29 FEET; THENCE NORTH 0°07'30" EAST, 10.00 FEET; THENCE NORTH 89°52'30" WEST, 158.51 FEET; THENCE NORTH 4°12'00" WEST, 240.68 FEET; THENCE SOUTH 89°52'30" EAST, 241.04 FEET TO THE POINT OF BEGINNING:
CONTAINS 58,678 SQUARE FEET (1.35 ACRES) MORE OR LESS

BASIS OF BEARING

NORTH 89°52'30" WEST
BEING THE NORTH LINE OF THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 04, TOWNSHIP 21 SOUTH, RANGE 61 EAST, M.D.M.; ALSO BEING THE CENTERLINE OF CHARLESTON BOULEVARD AS INDICATED IN FILE 79, PAGE 62, OF SURVEYS, CLARK COUNTY OFFICIAL RECORDS.

BENCHMARK

PROJECT VERTICAL DATUM: NAVD88
CLARK COUNTY B.M. 8C01
3.5SS6
1998 (REVISED 2003)

RIVET AND ROUND ALUMINUM PLATE IN TOP OF CURB, NORTHWEST CORNER OF CHARLESTON BLVD. AND GRAND CENTRAL PKWY. NEAR THE PC OF CHARLESTON BLVD.

ELEVATION = 621.954 METERS
(2040.527 U.S. SURVEY FEET) NAVD 88 (REVISED 2003)

METERS X $\left(\frac{3937}{1200}\right)$ = U.S. SURVEY FEET

1. THE ELEVATIONS SHOWN HEREON ARE BASED ON FEET.

DISCLAIMER NOTE

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 UNDER- GROUND 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. ALL DISCREPANCIES MUST BE IMMEDIATELY REPORTED TO THE ENGINEER. CALL BEFORE YOU DIG: 1-800-227-2600.

CONSTRUCTION NOTES:

1. EXISTING 3/4" WATER SERVICE TO BE REMOVED (ACCT. #150090)
1A. EXISTING 1" WATER SERVICE TO BE REMOVED (ACCT. #149135)
2. EXISTING 1" METER TO BE RELOCATED (ACCT. #009390)
3. EXISTING BELOW GRADE DETECTOR CHECK TO BE RETURNED TO LVVWD (SEE NOTE 1)
4. INSTALL 8" X 8" X 6" TEE PER UDACS PLATE NO. 5
5. INSTALL FIRE HYDRANT AND APPURTANENCES PER UDACS PLATE NO.7
6. INSTALL 16" X 6" TAPPING TEE W/ TAPPING VALVE PER UDACS PLATE NO. 5
7. INSTALL BOLLARDS PER UDACS PLATE NO.23
8. LVVWD EASMENT (SIZE AS NOTED)
9. INSTALL 6" CLEANOUT WITH TRAFFIC BEARING LID PER DETAIL SHEET D1
10. INSTALL 8" 45° ELBOW PER UDACS PLATE NO. 5
11. INSTALL GREASE TRAP (REFER TO PLUMBING PLANS)
12. INSTALL RELOCATED 1" (ACCT. #009390) WATER METER (#105303) PER UDACS PLATE NO. 1D W/ 1" RPPA PER UDACS PLATE NO. 11A
13. INSTALL 1 1/2" WATER METER PER UDACS PLATE NO. 1D W/ 1 1/2" RPPA PER UDACS PLATE NO. 11A
14. INSTALL 8" DCDA PER UDACS PLATE NO. 11C
15. INSTALL 16" X 8" TAPPING TEE W/ TAPPING VALVE PER UDACS PLATE NO. 22
16. INSTALL 8" X 3/4" SERVICE SADDLE PER UDACS PLATE NO. 1D
17. INSTALL RELOCATED 3/4" WATER METER (#233681) PER UDACS PLATE NO. 1D W/ 1" RPPA PER UDACS PLATE NO. 11A
18. INSTALL 8"X6" REDUCER PER UDACS PLATE NO. 3
19. INSTALL 6" 90° ELBOW PER UDACS PLATE NO. 5
20. INSTALL 6" TEE PER UDACS PLATE NO. 5
21. TIE INTO EXISTING 6" FEED TO BUILDING W/ 6" 90° ELBOW PER UDACS PLATE NO. 5
22. ABANDON EXISTING PORTION OF 6" PIPE
23. CUT AND CAP (SEE NOTE ESN.033)
24. INSTALL A 2" X 2" X 2" TEE (COPPER)
25. INSTALL A 1" X 2" 90° ELBOW (COPPER)
26. INSTALL A 2" 45° BEND (COPPER)
27. INSTALL 4" CLEAN OUT W/ TRAFFIC BEARING LID PER DETAIL SHEET D1
28. SEE NOTE 4 OF THIS SHEET AND WATER/SEWER CROSSING DETAIL ON SHEET D1.
29. 5 LF OF 1 1/2" BRASS WATER (DOM)
30. 20 LF 8" PVC WATER (FIRE)
31. CONNECT TO EX. SSMH WITH 2.0 LF 8" C900 SS AT 1%

NOTES:

1. ABANDONMENT OF EXISITNG SERVICE(S) – LARGER THAN 2"

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:

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. IF THE VALVE IS TO BE ABANDONED IN THE CLOSED POSITION, THE LATERAL MUST BE CUT WITHIN THREE (3) FEET OF THE ABANDONED VALVE, OR AS SHOWN ON PLANS, AND CAPPED. 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. THE CONTRACTOR SHALL INSTALL A CONCRETE THRUST BLOCK IN ACCORDANCE WITH THE PROVISIONS OF THE UDACS PLATE NO. 5 AT ALL CAP OR PLUG LOCATIONS. THE EXISTING METER(S) SHALL BE REMOVED AND DELIVERED TO THE DISTRICT. THE CONTRACTOR SHALL THEN REMOVE AND/OR BACKFILL THE ABANDONED VAULT WITH TYPE II MATERIAL.

2. ALL CURB DATA IS BASED OFF THE BACK-OF-CURB UNLESS OTHERWISE SPECIFIED.

3. KHA IS DESIGNING ALL APPURTNANCES FOR THE NEW INTERSECTION UP TO THE LIMITS OF CONSTRUCTION (SEE PLANS). WRIGHT ENGINEERS IS PROPOSING SOME UTILITY DESIGN WITHIN THE INTERSECTION.

4. ALL UTILITY INSTALLATIONS AND CROSSINGS ARE TO BE PER THE UDACS SECTION 2.19.

* ALL SEWER MANHOLES ARE TO BE AJUSTED TO THE NEW GRADES.

69942

ABANDONED 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 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 THE 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

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

THE DOUBLE CHECK DETECTOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACS PLATE 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.

EXTEND SERVICE LATERALS 2" AND SMALLER

WATER METERS IN FINISHED ROADWAYS SHALL BE RELOCATED TO BACK OF CURB, AND SHALL BE INSTALLED PER THE UDACS PLATE NO. 1D.
ALL SERVICE LATERALS 2" AND SMALLER MAY BE EXTENDED, PROVIDED THE FOLLOWING CRITERIA ARE MET:

- LATERAL CAN ONLY BE EXTENDED IF CONNECTING TO COPPER.
- LATERAL MUST BE INSTALLED AT 90 DEGREES TO THE MAIN.
- AN EXISTING SERVICE LATERAL THAT IS NOT COPPER IS TO BE ABNADONED FROM THE EXISTING WATER MAIN, AND REPLACED WITH A COPPER SERVICE LATERAL PER UDACS PLATE NO. 1B OR 1D. 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 LVVWD. IF THE CORPORATION STOP IS NOT WATER TIGHT, THE CONTRACTOR SHALL NOTIFY LVVWD COMMUNICATION SUPPORT CENTER (702-258-7171) FOR FURTHER DIRECTION.

BACKFLOW PREVENTION DEVICE (2) 1",(1) 1 1/2" RPPA

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 BACKFLOW PREVENTION DEVICE 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. EASEMENT SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

CLV FIRE FLOW DATA

FIRE FLOW REQUIREMENT IS 2750 GALLONS PER MINUTE AT 20 POUNDS PER SQUARE INCH RESIDUAL BASED ON:

LARGEST SQUARE FOOTAGE:	41,651 SF
LARGEST AREA BETWEEN AREA 4-HOUR SEPARATION WALLS: SEPARATION WALLS INDICATED ON PLANS	41,651 SF
TYPE OF CONSTRUCTION:	TYPE V-B
OCCUPANCY:	COMMERCIAL
FULL AUTOMATIC FIRE SPRINKLER SYSTEM:	YES
HEIGHT:	2 STORY (31 FEET)
HILE PILED COMBUSTIBLE STORAGE:	NO

CITY OF LAS VEGAS FIRE DEPARTMENT APPROVED

5/29/04
DATE

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: 2750 GPM AT 20 P.S.I. RESIDUAL.

PROJECT NAME: HOLSUM LOFTS
SHTS C1,C2,U1

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 5/28/04 DATE:

LAS VEGAS VALLEY WATER DISTRICT APPROVAL (SHEET C1, C2 & U1) DATE
PROJECT #29002

UTILITY 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 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 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
CALL 1-702-593-6111

AVOID HITTING UNDERGROUND TRAFFIC SIGNAL SYSTEMS AND STREET LIGHT SYSTEM CONDUITS IT'S COSTLY
CALL BEFORE YOU DIG UNDERGROUND
1-702-455-7511
1-702-229-6081
Call before you Underground

REV	DATE	BY	REVISION

LAPOUR PARTNERS, LLC
5525 S. DECATUR, SUITE 101
LAS VEGAS, NEVADA 89118
TEL (702) 222-3022

WRIGHT CIVIL ENGINEERS, INC
7425 PEAK DRIVE
LAS VEGAS, NEVADA 89128
TEL (702) 933-7000 FAX (702) 933-7001
CIVIL STRUCTURAL LAND SURVEYING

WRIGHT ENGINEERS

SHEET: UTILITY PLAN
TITLE: HOLSUM LOFTS

DRAWN BY: BSL	05/06/04	SCALE: 1"=30'	
DESIGNED BY: RKF	05/06/04		
CHECKED BY: JSM	05/06/04	PROJECT NO: CN23201801	

PROFESSIONAL ENGINEER STATE OF NEVADA
JEREMY S. McCAY
Exp:12-31-05
CIVIL No. 15797
5/27/04

SHEET U1
6 OF 7 SHEETS
DRAWING NO. 10TV4030