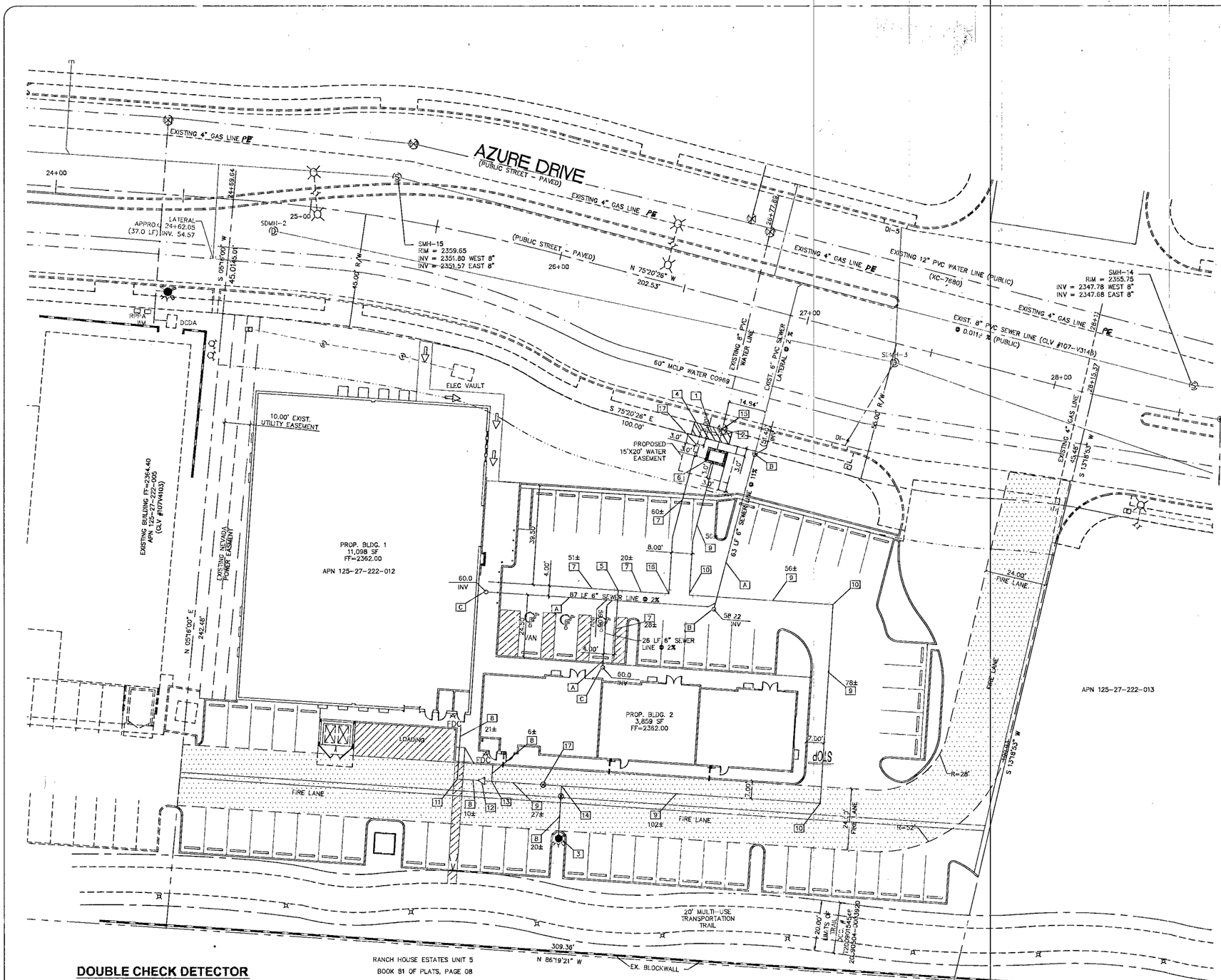
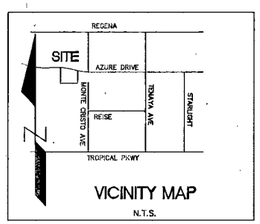


NOTES:

1. WATER AND SEWER DESIGN IS PER "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS" (UDACS) 2003 AND THE "DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS" (UDS) 1997, STANDARD PLATES WHERE APPLICABLE.
2. ALL DIMENSIONS TO UTILITIES ARE TO CENTERLINE OF PIPE UNLESS INDICATED OTHERWISE.
3. ALL EXISTING UTILITY STRUCTURES WITHIN CONSTRUCTION AREA SHALL BE ADJUSTED TO MATCH FINISH GRADE (I.E. WV, BOX, WMH, ANODE BOX, FH, TEL BOX, ETC.).
4. WATER AND SEWER SERVICE LATERALS SHALL BE INSTALLED A MINIMUM OF FORTY-EIGHT (48) INCHES APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF TWELVE (12) INCHES ABOVE THE SEWER LATERAL (REF. UNIFORM PLUMBING CODE).
5. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL ALIGNMENT OF EXISTING UTILITIES AND SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY ON ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
6. ALL ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF TITLE 19.12.040.
7. ALL SEWER/STORM DRAIN CROSSING WATER LINES MUST CONFORM TO SECTION 2.19 OF UDACS FOR WATER STORM MAIN CROSSINGS AND CLEARANCES.
8. 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 WHENEVER 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. ESN.041
9. 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 OF NO LESS THAN SIX INCHES..." AND IN ACCORDANCE WITH UDACS 2.20.01, 2.04.05, 2.19.02.B1, AND 2.19.02.B2.



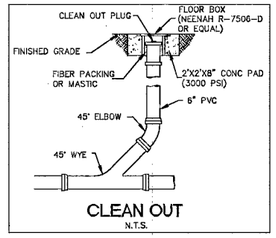
VICINITY MAP
N.T.S.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft

UTILITY NOTES AND QUANTITIES

THE QUANTITY ESTIMATES SHOWN HEREON ARE APPROXIMATE AND NO ONE IS TO RELY UPON THEM FOR PAY QUANTITIES

		UNIT	PUBLIC	PRIVATE
	WATER			
1	INSTALL 1 1/2" WATER METER PER UDACS STD PLATE 1D	EA	1	—
2	INSTALL 8" X 1 1/2" SERVICE SADDLE W/CORP STOP PER UDACS PLATE 1D	EA	1	—
3	INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE 7	EA	—	1
4	1 1/2" BRASS PIPE AND FITTINGS BETWEEN METER AND RPPA	EA	—	—
5	INSTALL 2 1/2" X 2 1/2" X 2 1/2" TEE	EA	—	1
6	INSTALL 8" FEBCO DCDA, MODEL 876 "V" PER UDACS PLATE 11C	EA	1	—
7	INSTALL 2 1/2" PVC WATER LINE	LF	—	159±
8	INSTALL 6" PVC WATER LINE	LF	—	60±
9	INSTALL 8" PVC WATER LINE	LF	—	319±
10	INSTALL 8" 90° ELL	EA	—	3
11	INSTALL 6" 90° ELL	EA	—	1
12	INSTALL 6" X 8" REDUCER	EA	—	1
13	INSTALL 6" X 8" X 8" TEE	EA	—	1
14	INSTALL 6" X 8" X 8" TEE	EA	—	1
15	REMOVE 2" BLOW OFF AND CONNECT PER UDACS PLT 4A	EA	—	—
16	INSTALL 2 1/2" 90° ELL	EA	—	1
17	INSTALL 1 1/2" RPPA PER UDACS STD PLATE #11A	EA	1	—
	SEWER			
A	INSTALL 6" PVC SEWER LATERAL	LF	—	178±
B	INSTALL A CLEANOUT PER CLEANOUT DETAIL	EA	—	2
C	INSTALL A CLEANOUT (NON TRAFFIC RATED)	EA	—	2



CLEAN OUT
N.T.S.

LEGEND

-ABBREVIATIONS-

RG	ROUGH GRADE
FG	FINISH GRADE
FL	FLOW LINE
TC	TOP OF CURB
TRC	TOP OF ROLL CURB
EAC	EDGE OF ASPHALT PAVEMENT
FUT.	FUTURE
EXIST	EXISTING (EX.)
VG	VALLEY GUTTER
NG	NATURAL GROUND
H.P.	HIGH POINT
L.P.	LOW POINT
C/L	CENTER LINE
O/C	OFFSET CROWN
BC	BACK OF CURB
BCR	BEGIN CURB RETURN
TF	TOP OF FOOTING
GB	GRADE BREAK
PP	POWER POLE
TRANS.	TRANSITION
RET.	RETAINMENT
INT.	INTERSECTION
D.G.	DESIGN GRADE
TSW	TOP OF SIDEWALK
FF=	FINISH FLOOR
SD	STORM DRAIN
DI	DROP INLET
R/W	RIGHT-OF-WAY
SW	SIDEWALK
LS	LANDSCAPING

-SYMBOLS-

- EX. CONTOUR(5' INTERVAL)
- EX. CONTOUR(1' INTERVAL)
- 42.1 PROPOSED PAD GRADE
- 42.1 FUT./EXIST. PAD GRADE
- 0.50% SLOPE AND FLOW DIRECTION
- EDGE OF EXIST A.C.
- SAW CUT & MATCH A.C.
- SIDEWALK RAMP
- SCARP AREA
- (12) RETAINING HEIGHT (FEET)
- SIGHT VISIBILITY ZONES
- PROJECT BOUNDARY LINE
- SETBACK LINE
- R/W OR P/L
- CENTER LINE
- BACK OF CURB
- LIP OF GUTTER
- EXIST. IMPROVEMENTS
- FUTURE IMPROVEMENTS
- RETAINING WALL
- CONC. BLOCK WALL
- EXIST.CONC. BLOCK WALL
- EXIST. DIRT ROAD
- EXIST. AC
- SAWCUT & MATCHLINE
- LIMITS OF TRAIL

BY	DATE	DESCRIPTION
		APPROVAL
		REVISIONS

moameni & ASSOCIATES, INC
| Planning | Architecture | Sustainable Design | Interiors |
| Engineering | CMAR Services | Construction | Design Build |
LIC NO: 0000681
4170 S. DECATUR BLVD., STE C-1
LAS VEGAS, NEVADA 89103
|o| (702) 248-9004 |f| (702) 248-9495

REGISTERED PROFESSIONAL ENGINEER STATE OF NEVADA
MOHAMMAD H. MOMENI
Expir. 12/31/09
CIVIL / STRUCTURAL
No.12732
05/05/2009

MAY 01, 2009
DATE
10461002
PROJECT NUMBER
JRG
DRAWN BY
MHM
CHECKED BY

PROJECT: LEE'S DISCOUNT LIQUOR RETAIL
7289 WEST AZURE DRIVE
LAS VEGAS, NEVADA
UTILITY PLAN

DOUBLE CHECK DETECTOR ASSEMBLY (1) 8"

THE DOUBLE CHECK DETECTOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE U.D.A.C.S. PLATE No. 11C. 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. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION. ESN.008

REDUCED PRESSURE PRINCIPLE ASSEMBLY (1) 1 1/2"

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE U.D.A.C.S. PLATE No. 11A. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACK FLOW 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. ESN.034

117093

NOTE:

1. ON-SITE SEWERS ARE A COMMON ELEMENT PRIVATELY OWNED AND MAINTAINED PER THE CONDITIONS, COVENANTS, AND RESTRICTIONS (CC&Rs) OF THIS COMMERCIAL SUBDIVISION.
3. ALL PROPERTIES WITHIN THIS SITE SHALL HAVE PERPETUAL, UNOBSTRUCTED ACCESS TO ALL PARKING AND ALL DRIVEWAYS SERVICING THIS SITE.
4. ALL SUBDIVIDED PARCELS COMPRISING THIS COMMERCIAL SUBDIVISION SHALL PROVIDE PERPETUAL INTERSITE COMMON DRAINAGE RIGHTS ACROSS ALL EXISTING AND FUTURE PARCEL LIMITS.

NOTE:

REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS OR PAVEMENT MARKINGS) UNDER CLARK COUNTY JURISDICTION THAT ARE DISTURBED, DESTROYED, MOVED OR MODIFIED BY TRENCHING ACTIVITY TO CLARK COUNTY SATISFACTION. ALL MATERIALS USED SHALL MEET CLARK COUNTY'S SPECIFICATIONS, OR WILL BE AN APPROVED EQUIVALENT.

IN THE EVENT THAT THE TRAFFIC SIGNAL CONDUITS, LOOP DETECTORS OR ASSOCIATED EQUIPMENT ARE DAMAGED BY CONTRACTOR, THE CONTRACTOR WILL HIRE AN IMSA LEVEL II ELECTRICAL CONTRACTOR TO MAKE REPAIRES PER ELECTRICAL CONTRACTOR TO MAKE REPAIRS PER UNIFORM SPECIFICATION NO. 623.0.01.02

SEWER FLOW

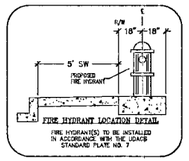
AVERAGE SEWER CONTRIBUTION
14 fixtures x 0.65 ERU's x 250 gpd=2,275 gpd =0.0023 mgd

PEAK SEWER CONTRIBUTION
2,275 gpd X 3.4 peak factor=7,735 gpd=0.0077 mgd

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENTS IS 1500 GPM
GALLONS PER MINUTE AT 20 PSI RESIDUAL PRESSURE

	BUILDING 1	BUILDING 2
BASED ON SQUARE FOOTAGE	11,098 SQ FT	3,859 SQ FT
LARGEST AREA BETWEEN 4-HOUR AREA SEPERATION WALLS:	11,098 SQ FT	3,859 SQ FT
BUILDING HEIGHT:	32 FT	23 FT
NUMBER OF STORIES:	1 STORY	1 STORY
TYPE OF CONSTRUCTION:	II-A	V-B
OCCUPANCY:	M	M
FULL AUTOMATIC SPRINKLER SYSTEM:	YES	YES



FIRE HYDRANT LOCATION DETAIL
FIRE HYDRANT(S) TO BE INSTALLED IN ACCORDANCE WITH THE UDACS STANDARD PLATE NO. 7

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811
OR
1-800-227-2600
AND
CLARK COUNTY TRAFFIC OPERATIONS
1-702-455-7544

NOTICE !
EXISTING UTILITIES ARE LOCATED ON THE PLANS FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE ENGINEER BEARS NO RESPONSIBILITY FOR THE LOCATION OF UTILITIES SHOWN OR NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES BEFORE STARTING CONSTRUCTION AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL UTILITIES WITH THE UTILITY COMPANIES.

ANOD OVERHEAD POWER LINE CONTACT
CALL BEFORE YOU OVERHEAD
1-702-593-6111
NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPT.

CLV FIRE DEPARTMENT APPROVAL

APPROVAL BY THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LVVWD

CLV FIRE DEPARTMENT APPROVAL

BY: [signature] 5/8/07
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.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT (PROJECT # 115894) — DATE

PROJECT NAME: Lee's Discount Liquor
Pg C-7
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.

[signature] 5/7/09
LVVWD — DATE — H# 33157
ESN.032 — REVISED 09/01/04

SHEET: C7
7 OF 7
107V 5219