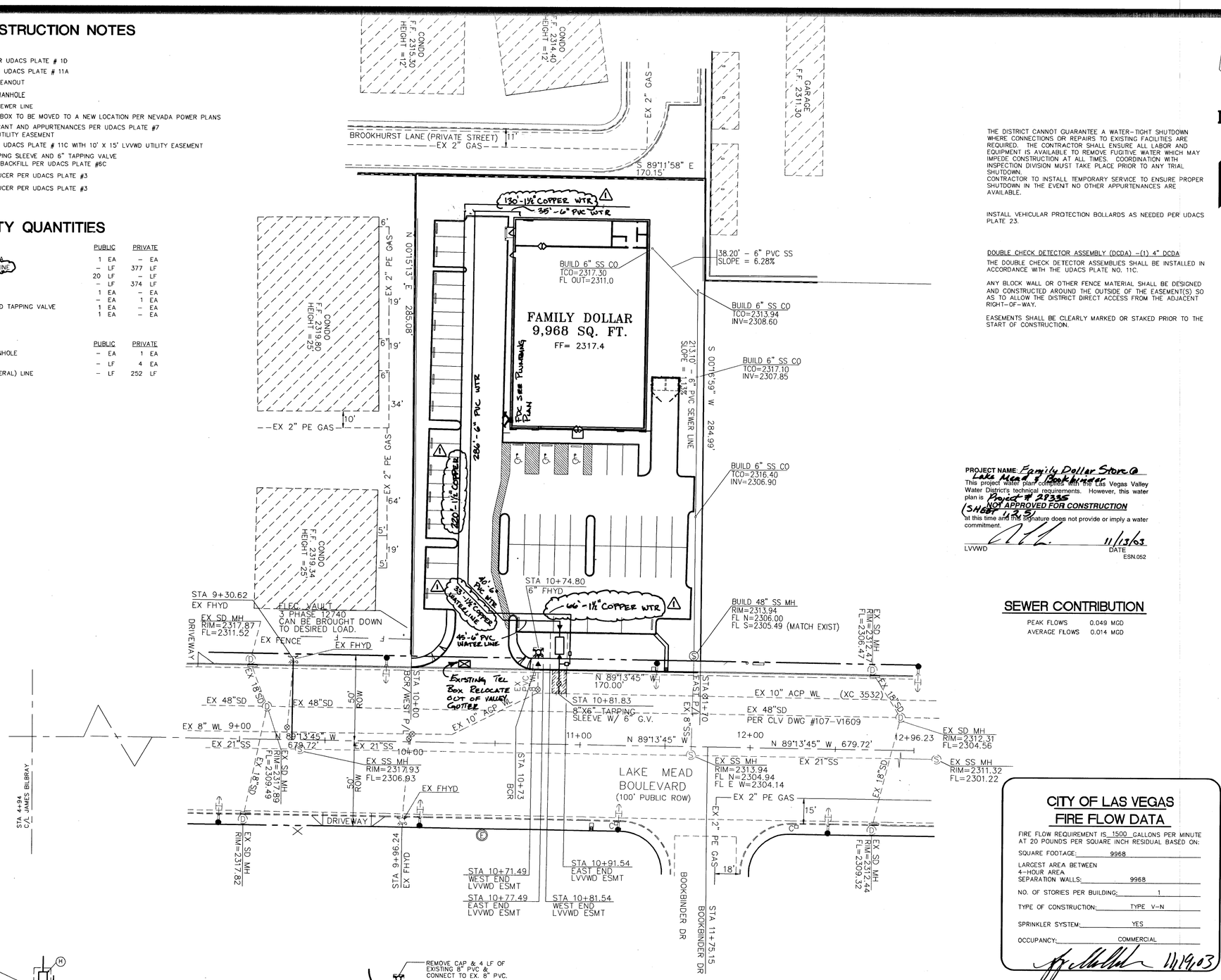
UTILITY CONSTRUCTION NOTES

(A) INSTALL 1" METER PER UDACS PLATE # 1D
(B) INSTALL 1" RPPA PER UDACS PLATE # 11A
(C) INSTALL 6" SEWER CLEANOUT
(D) INSTALL 48" SEWER MANHOLE
(E) CONSTRUCT 6" PVC SEWER LINE
(F) EXISTING ELECTRICAL BOX TO BE MOVED TO A NEW LOCATION PER NEVADA POWER PLANS
(G) INSTALL 6" FIRE HYDRANT AND APPURTENANCES PER UDACS PLATE #7 WITH 6' X 6' LVVWD UTILITY EASEMENT
(H) INSTALL 4" DCDA PER UDACS PLATE # 11C WITH 10' X 15' LVVWD UTILITY EASEMENT
(I) INSTALL 8" X 6" TAPPING SLEEVE AND 6" TAPPING VALVE TRENCH 8' WIDE AND BACKFILL PER UDACS PLATE #6C
(J) INSTALL 8" X 6" REDUCER PER UDACS PLATE #3
(K) INSTALL 4" X 6" REDUCER PER UDACS PLATE #3

UTILITY QUANTITIES

WATER	PUBLIC	PRIVATE
INSTALL 1" METER & 1" RPPA	1 EA	– EA
INSTALL 1½" COPPER WATER LINE	– LF	377 LF
INSTALL 8" PVC WATER LINE	20 LF	– LF
INSTALL 6" PVC WATER LINE	– LF	374 LF
INSTALL 6" FIRE HYDRANT	1 EA	– EA
INSTALL 8" X 6" REDUCER	– EA	1 EA
INSTALL TAPPING SLEEVE AND TAPPING VALVE	1 EA	– EA
INSTALL 4" DCDA	1 EA	– EA

SEWER	PUBLIC	PRIVATE
INSTALL 48" DIA. SEWER MANHOLE	– EA	1 EA
INSTALL 6" CLEANOUTS	– LF	4 EA
INSTALL 6" PVC SEWER (LATERAL) LINE	– LF	252 LF



THE DISTRICT CANNOT GUARANTEE A WATER-TIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE FUGITIVE WATER WHICH 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.

INSTALL VEHICULAR PROTECTION BOLLARDS AS NEEDED PER UDACS PLATE 23.

DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) – (1) 4" DCDA

THE DOUBLE CHECK DETECTOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACS PLATE NO. 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.

EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

PROJECT NAME: Family Dollar Store @ Lake Mead & Bookbinder
This project water plan complies with the Las Vegas Valley Water District's technical requirements. However, this water plan is Project # 27335 (SHEET 1 OF 5)
NOT APPROVED FOR CONSTRUCTION
at this time and this signature does not provide or imply a water commitment.
LVVWD 11/13/03 DATE
ESN.052

SEWER CONTRIBUTION

PEAK FLOWS	0.049 MGD
AVERAGE FLOWS	0.014 MGD

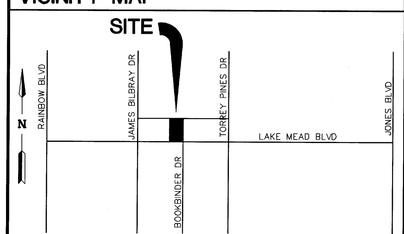
LEGEND

- PROPOSED FIRE HYDRANT
- EXISTING FIRE HYDRANT
- PROPOSED 48" DIA. SEWER MANHOLE.
- EXISTING SEWER MANHOLE.
- 8" SS — PROPOSED SEWER LINE (SIZE AS INDICATED)
- EX 8" SS — EXISTING SEWER LINE (SIZE AS INDICATED)
- 8" WL — PROPOSED WATER LINE (SIZE AS INDICATED)
- EX 8" WL — EXISTING WATER LINE (SIZE AS INDICATED)
- PROPOSED GATE VALVE (SIZE AS INDICATED)
- EXISTING GATE VALVE (SIZE AS INDICATED)
- WATER FITTING SIZE AND TYPE INDICATED ON PLAN.
- 12" X 30" STREET NAME SIGN (D3)
- 36" STOP SIGN (R1-1)
- EX. (PUBLIC) STREET LIGHT
- EXISTING SIGN
- EXISTING STREET LIGHT MOUNTED SIGNS
- EXISTING STREET NAME SIGN
- EXISTING STOP SIGN
- DENOTES RED PAINTED FIRE LANE W/ "FIRE LANE NO PARKING ANYTIME" STENCILED W/ WHITE PAINT EVER 10 FEET.

REDUCED PRESSURE PRINCIPLE ASSEMBLY-1 (1")

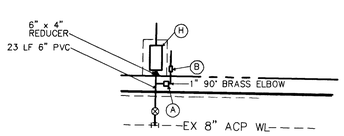
APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER UDACS PLATE NO. 11A. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVVWD.
ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY.

VICINITY MAP

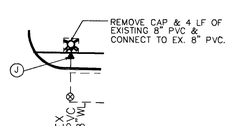


CITY OF LAS VEGAS FIRE FLOW DATA

FIRE FLOW REQUIREMENT IS 1500 GALLONS PER MINUTE AT 20 POUNDS PER SQUARE INCH RESIDUAL BASED ON:
SQUARE FOOTAGE: 9968
LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS: 9968
NO. OF STORIES PER BUILDING: 1
TYPE OF CONSTRUCTION: TYPE V-N
SPRINKLER SYSTEM: YES
OCCUPANCY: COMMERCIAL
11/19/03



1:10 SCALE OF WATER METER AND DCDA SYSTEM



FIRE HYDRANT INSTALLATION DETAIL

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

SEWER MANHOLE NOTE
ALL ONSITE SEWER MANHOLE TO BE CONSTRUCTED AS 48" SEWER MANHOLE PER DCSWCS STANDARD DRAWING NO. SD-1 UNLESS OTHERWISE NOTED ON PLANS.

LVVWD APPROVAL

LAS VEGAS VALLEY WATER DISTRICT — DATE

GRAPHIC SCALE

30 0 15 30 60 120
(IN FEET)
HORIZONTAL SCALE 1"=30'

BASIS OF BEARINGS

THE BASIS OF BEARING FOR THIS SURVEY IS N 89°13'45" W BETWEEN THE W 1/16 C-C SECTION 23 AND THE C 1/4 CORNER SECTION 23, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M., AS SHOWN BY A MAP ON FILE IN THE CLARK COUNTY, NEVADA, RECORDER'S OFFICE AS BOOK 1310, FILE 36, PAGE 71.

BENCHMARK

THE BENCHMARK USED FOR THE TOPOGRAPHY ON THIS PROJECTS WAS A RIVET AND ALUMINUM PLATE IN TOP OF CURB, SOUTHWEST CORNER OF TORREY PINES DR. AND LAKE MEAD BLVD. NEAR THE PC OF TORREY PINES DR. ELEVATION = 702.485 METERS (2304.74 FEET) #7C00 23C4

CITY OF LAS VEGAS FIRE DEPARTMENT APPROVAL

BY: SEE ABOVE — 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: 1500 GPM AT 20 P.S.I. RESIDUAL.

AVOID OVERHEAD POWER LINE CONTACT
CALL BEFORE YOU OVERHEAD
1-702-593-6111
NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT

NOTICE!
EXISTING UTILITIES ARE SHOWN ON PLANS FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. THE ENGINEER BEARS NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR SHOWN INCORRECTLY.

AVOID CUTTING UNDERGROUND UTILITIES. IT'S COSTLY.
Call BEFORE YOU Dig
1-800-227-2600
UNDERGROUND SERVICE (USA)

REV	DATE	BY	REVISION
1	9/MAR	TSE	INCREASED WATERLINE LATERAL FROM 1" TO 1½" HSP 3/3/04

GREEN, HERRINGTON, & HOWELL, LLC
1600 ARKANSAS BLVD., STE #100
TEXARKANA, AR 71854
(870) 772-5457

ALPHA & ENGINEERING COMPANY
50 So. Jones #202, Las Vegas, NV. 89107
Telephone: (702) 877-1300

SHEET: UTILITY & TRAFFIC PLAN
TITLE: FAMILY DOLLAR STORE @ LAKE MEAD/BOOKBINDER

DRAWN BY: MJP	04-01-03	
DESIGNED BY: MJP	04-01-03	
CHECKED BY: MJP	04-01-03	SCALE: 1"=30'
PROJECT NO: 325702		

REGISTERED PROFESSIONAL ENGINEER STATE OF NEVADA
T. SCOTT ZIEGLER
CIVIL
EXPIRES 30 JUN 2004
No. 13549
13 NOV 03

SHEET U1
5 OF 6 SHEETS
DRAWING NO. 10N3868

FILE NAME: 214918MP.DWG
VIEW NAME: 2UT1
60462 R/cm 65716