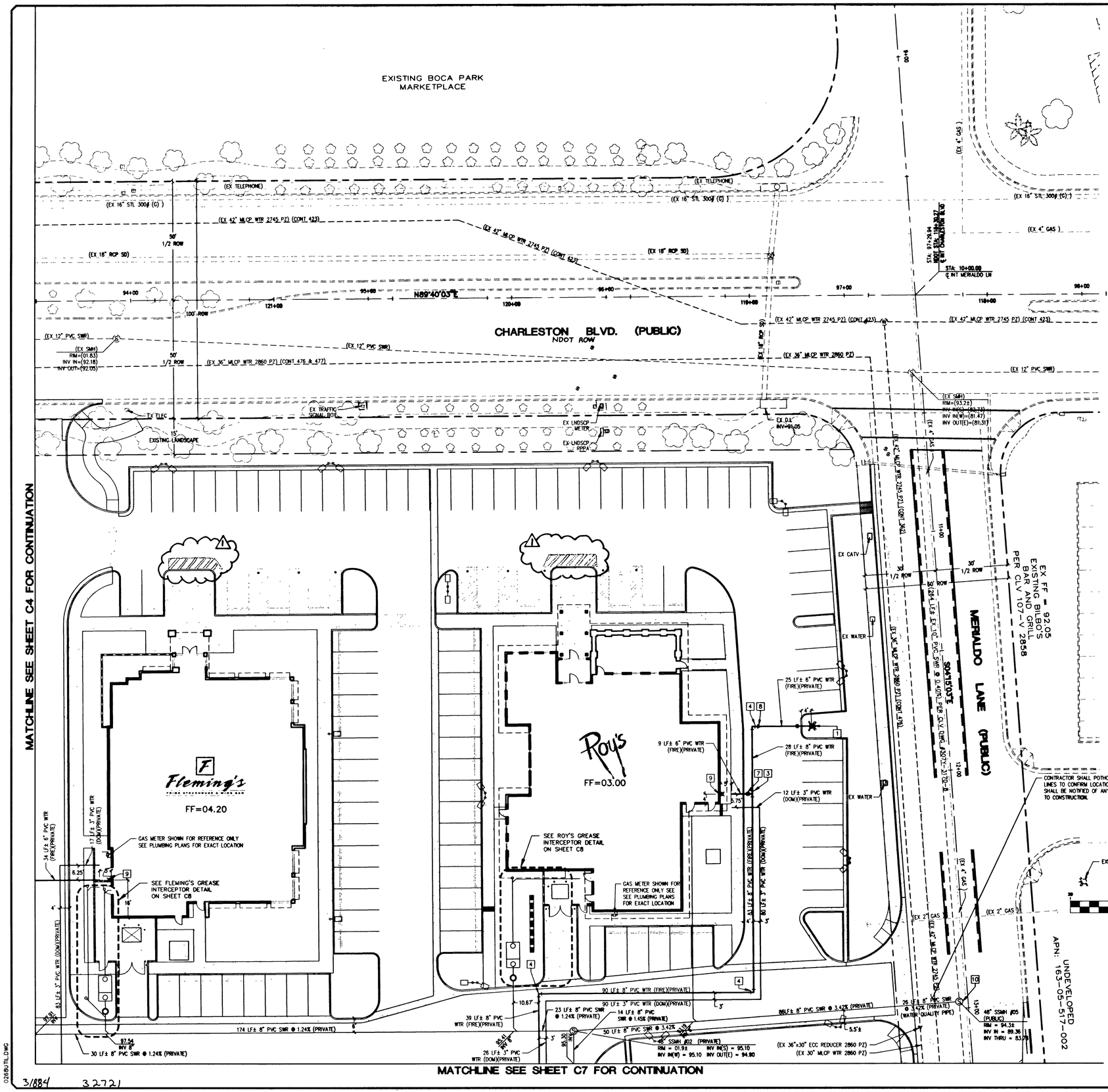



## FIRE FLOW DATA

FIRE FLOW IS 2,500 GPM AT 20 psi RESIDUAL PRESSURE

| | |
|---|---|
| BASED ON: SQUARE FOOTAGE: | 33,205 SF |
| AREA BETWEEN 4 HOUR AREA SEPARATION WALLS: | N/A |
| BUILDING HEIGHT: | 23' |
| NUMBER OF STORIES: | 1 |
| TYPE OF CONSTRUCTION: | V-N |
| OCCUPANCY GROUP: | M |
| FULL AUTOMATIC FIRE SYSTEM: | YES |

## INSTALLATION OF DOUBLE CHECK DETECTOR ASSEMBLY

(2) - 8"

THE DOUBLE CHECK DETECTOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACS PLATE 20B.

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.

## REDUCED PRESSURE PRINCIPLE ASSEMBLY

(4) - 1 1/2"

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.

## WATER PRESSURE NOTE

THIS PROJECT IS SERVED BY WATER FROM THE 2860 PRESSURE ZONE. THE APPROXIMATE STATIC PRESSURE AT THE FIRST FLOOR OF THE BUILDINGS IS 65-70 p.s.i. A PRESSURE REDUCTION VALVE IS NOT REQUIRED FOR THE DOMESTIC SERVICES TO THE BUILDINGS.

## SITE LIGHTING NOTE

THIS SYMBOL INDICATES THE LOCATION OF PROPOSED SITE LIGHTING AND IS FOR REFERENCE ONLY. SEE THE ARCHITECT PLANS FOR THE APPROPRIATE DRAWING(S) BY SECURITY LIGHTING SYSTEMS INC. FOR EXACT LOCATIONS AND DETAILS.

## ORDINANCE 5115

PER CITY OF LAS VEGAS ORDINANCE 5115, THE FIRE SPRINKLER (CONTROL VALVES) OF FIRE-EXTINGUISHING SYSTEMS SHALL BE:

1. LOCATED IN A ROOM WITH A ONE-HOUR OCCUPANCY SEPERATION AND AN EXTERIOR DOOR; OR
2. EQUIPPED WITH EXTERIOR INDICATOR POST VALVES (WALL CONTROL VALVES).

## APPROVAL:

LAS VEGAS VALLEY WATER DISTRICT — DATE

CITY OF LAS VEGAS FIRE DEPARTMENT — DATE 4/12/01

## BENCHMARK

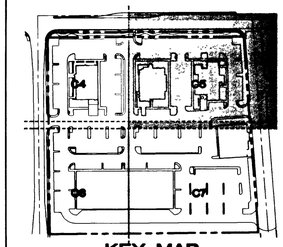
CITY OF LAS VEGAS BENCHMARK #LV10-5NW6

RIVET AND PLATE IN TOP OF CURB ON FORT APACHE ROAD, 1494' NORTH OF RED HILLS ROAD, ON THE EAST CURB LINE.

ELEV = 839.8849 METERS (NGVD'29)
ELEV = 2755.528 U.S. SURVEY FEET (NGVD'29)
DATUM CONVERSION: NAVD'88 = NGVD'29 + 2.45
2757.978 U.S. SURVEY FEET (NAVD'88)

## BASIS OF BEARINGS

**NORTH 89°40'03" EAST**, BEING THE BEARING OF THE NORTH LINE OF THE NORTHEAST QUARTER (NE 1/4) OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 5, TOWNSHIP 21 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN ON THAT CERTAIN MAP ON FILE IN THE CLARK COUNTY RECORDER'S OFFICE IN FILE 81 OF SURVEYS, AT PAGE 62.




KEY MAP

## SEWER CONTRIBUTION:

AVERAGE FLOW = 0.070 MGD
PEAK FLOW = 0.170 MGD

## FIRE HYDRANT INSTALLATION

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

PUBLIC HYDRANTS ARE TO BE PAINTED "YELLOW". PRIVATE HYDRANTS ARE TO BE PAINTED "RED".

## ENGINEER'S NOTES

1. EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL 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.

   CALL BEFORE YOU DIG: 1-800-782-5348.
2. SEE MECHANICAL PLANS FOR LOCATIONS, SIZES, AND DEPTHS OF ALL ONSITE UTILITIES AT THE PROPOSED BUILDINGS
3. SEE ELECTRICAL PLAN FOR ONSITE LIGHTING AND POWER SUPPLY
4. SEE LANDSCAPE PLANS FOR ONSITE IRRIGATION
5. NOTIFY ENGINEER OF ANY DISCREPANCIES IMMEDIATELY

## CONSTRUCTION NOTES

1. INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE No. 7
2. INSTALL 8" x 8" x 8" TEE PER UDACS PLATE No. 5
3. INSTALL 8" x 8" x 6" TEE PER UDACS PLATE No. 5
4. INSTALL 8" 90° BEND PER UDACS PLATE No. 5
5. INSTALL 8" 45° BEND PER UDACS PLATE No. 5
6. INSTALL 8" GATE VALVE PER UDACS PLATE No. 3
7. INSTALL 6" GATE VALVE PER UDACS PLATE No. 3
8. INSTALL 8" x 6" REDUCER
9. INSTALL WALL MOUNTED F.D.C. PER PLUMBING PLANS
10. INSTALL SPECIAL "HIGH DROP" MANHOLE PER DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS, STD. DWG. No. SD-8. PROVIDE DROP MANHOLE WITH T-LOCK LINING AND ODOR CONTROL CHARCOAL FILTER PER SD-4.

NOTE: ALL WATER AND SEWER FITTINGS TO BE PVC UNLESS NOTED OTHERWISE.

AVOID LIFTING OVERHEAD POWER LINES, IT'S SIMPLE. Call before you OVERHEAD 1-702-593-6111 NEVADA POWER COMPANY AND SAFETY SERVICES DEPARTMENT

AVOID CUTTING UNDERGROUND POWER LINES, IT'S SIMPLE. Call before you Dig. 1-800-227-2600 UNDERGROUND SERVICE ALERT (USA)

| NO. | DESCRIPTION | DATE | APP'D |
|---|---|---|---|
| 1 | REVISE M/C LANDING ZONE | 04/06/01 | |

| | |
|---|---|
| DATE : | 04/11/01 |
| PM : | C. HIGH |
| DRAWN BY : | M. GRIMES |
| DESIGNED BY : | L. ROACH |
| CHECKED BY : | C. HIGH |
| ADA CHECKED : | |
| JOB NO. : | 0050.0268 |
| SCALE : | 1" = 20' |

PENTACORE
CIVIL ENGINEERING • LAND SURVEYING • PLANNING
CONSULTING • LANDSCAPE ARCHITECTURE
6763 WEST CHARLESTON BOULEVARD
LAS VEGAS, NEVADA 89146 (702)258-0115

OUTBACK STEAKHOUSE INC.
ODETTE CENTER
MASTER UTILITY PLAN

PROFESSIONAL ENGINEER STATE OF NEVADA CARL W. HIGH CIVIL No. 10794 4/12/01

SHEET C5
8 OF 23
DRAWING No. 107-V3430

0268UTL.DWG
31884 32721