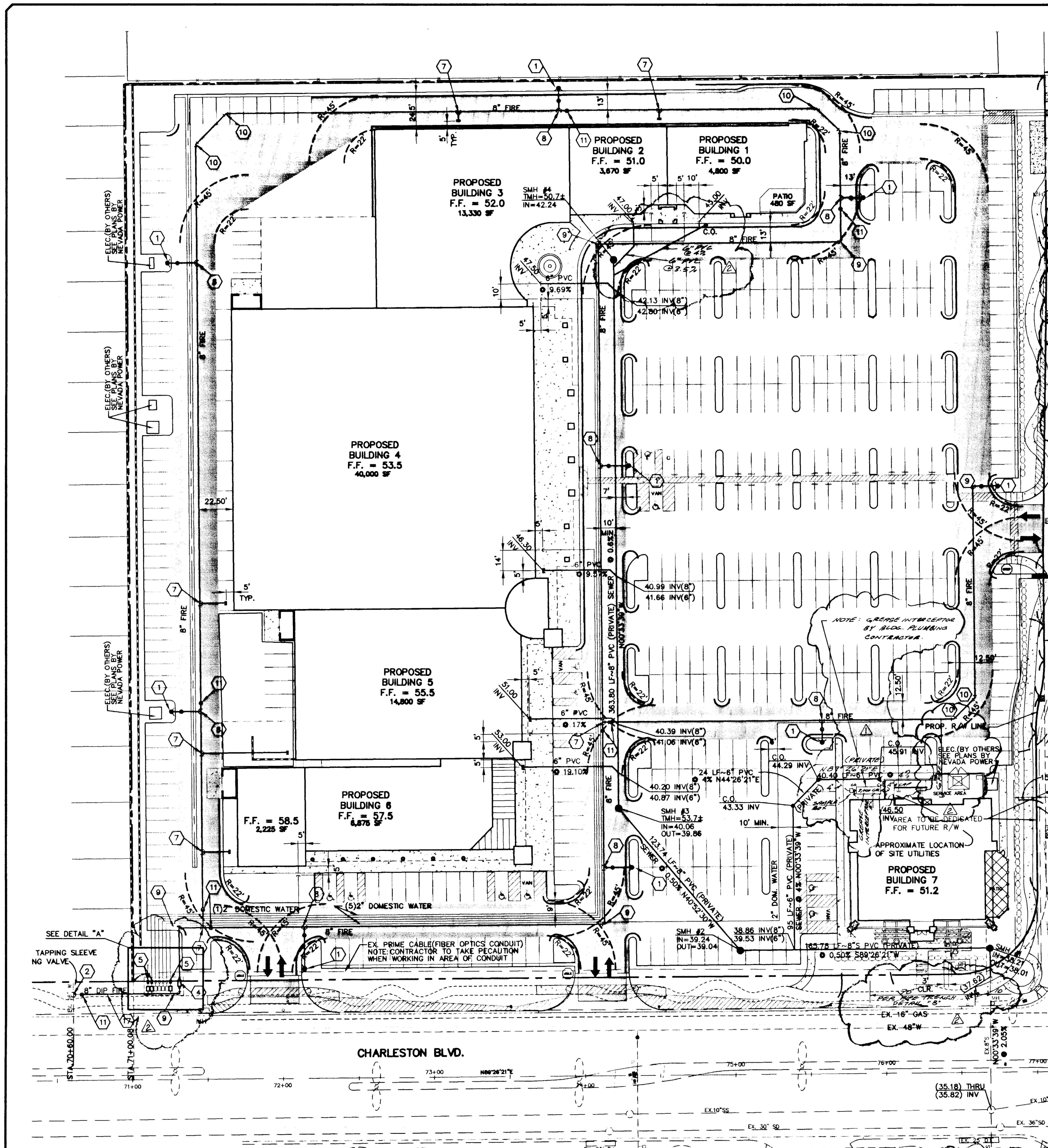
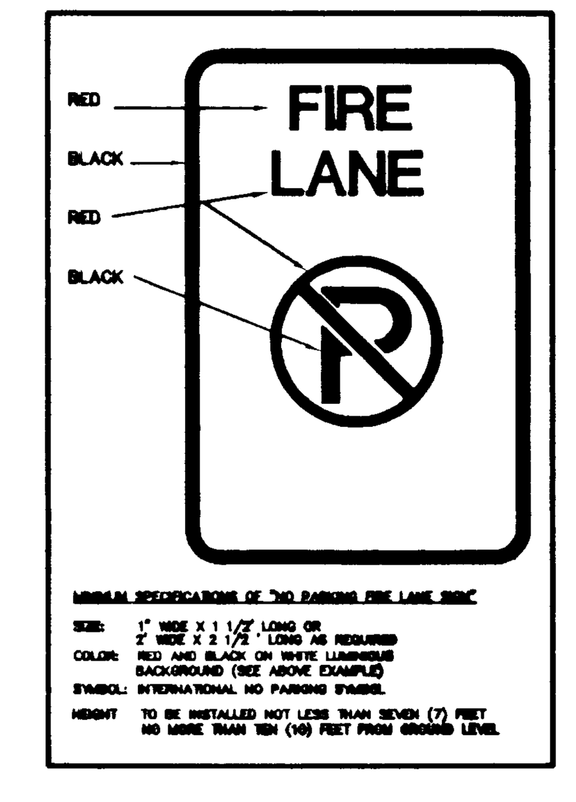
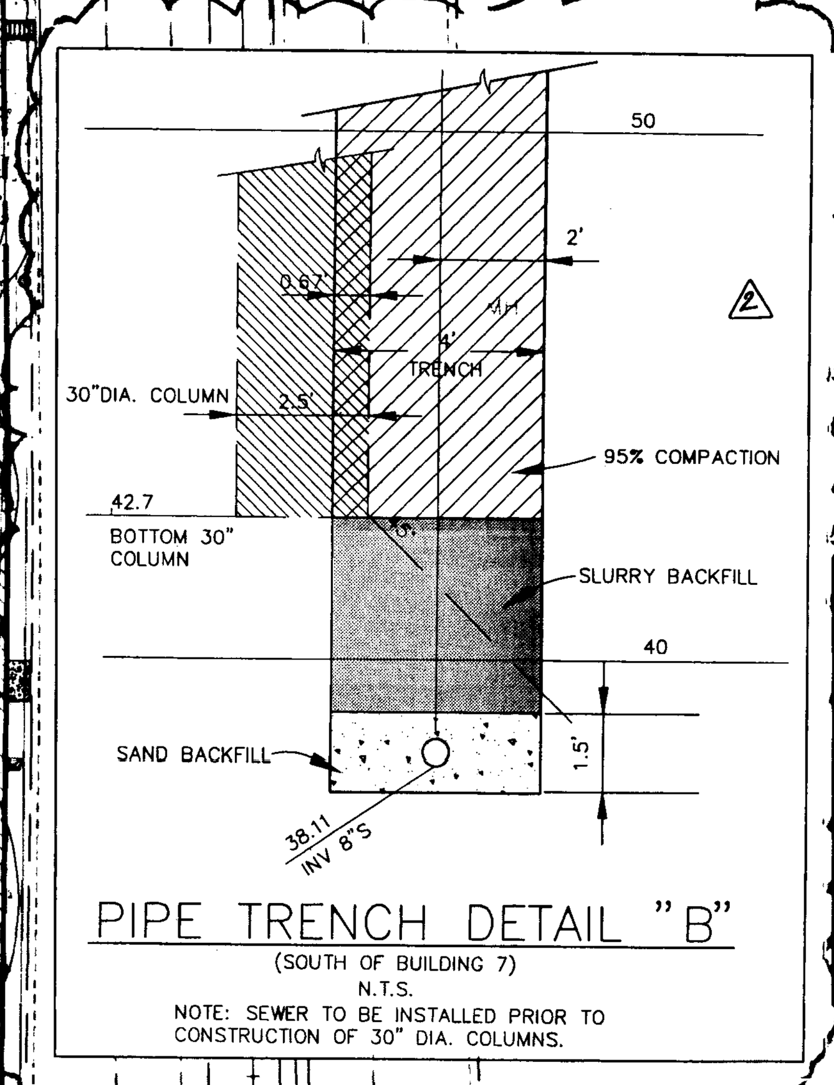






UTILITY LEGEND

- EXISTING WATER LINE
- PROPOSED WATER LINE
- SERVICE WATERLINE
- PROPOSED FIRE HYDRANT W/6" LATERAL & 6" G.V.
- EXISTING SEWER MANHOLE
- PROPOSED SEWER MANHOLE
- PROPOSED SEWER LATERAL
- EXISTING STORM DRAIN MANHOLE
- PROPOSED STORM DRAIN MANHOLE
- 0" LIP DRIVEWAY
- GATE VALVE
- REDUCER
- STREET LIGHT SERVICE POINT
- FIRE ACCESS ROAD
- R=45' R=22' TURNING RADIUS
- PAINTED CURB PER DETAIL SHEET 3
- HANDICAP/ENTRANCED WARNING SIGN

ENGINEER'S NOTES

1) CONTRACTOR TO VERIFY LOCATION AND SIZES OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION
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 FOR ANY DISCREPANCIES IMMEDIATELY

TRAFFIC AND ST. LIGHT QUANTITIES

STREET LIGHT (PUBLIC) TO BE RELOCATED	0 EA
PARKING LOT LIGHT (PRIVATE)	?? EA
STOP SIGN – R1-1	3 EA

NOTE: STREET LIGHT(S) TO INSTALLED IN ACCORDANCE WITH C.C. AREA STD. DWGS. 320 & 321

REDUCE PRESSURE PRINCIPLE ASSEMBLY

(3) 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.

INSTALLATION OF DOUBLE CHECK DETECTOR ASSEMBLY

(1) 10" -"N" SERIES- FEBCO 876 OR EQUAL

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.

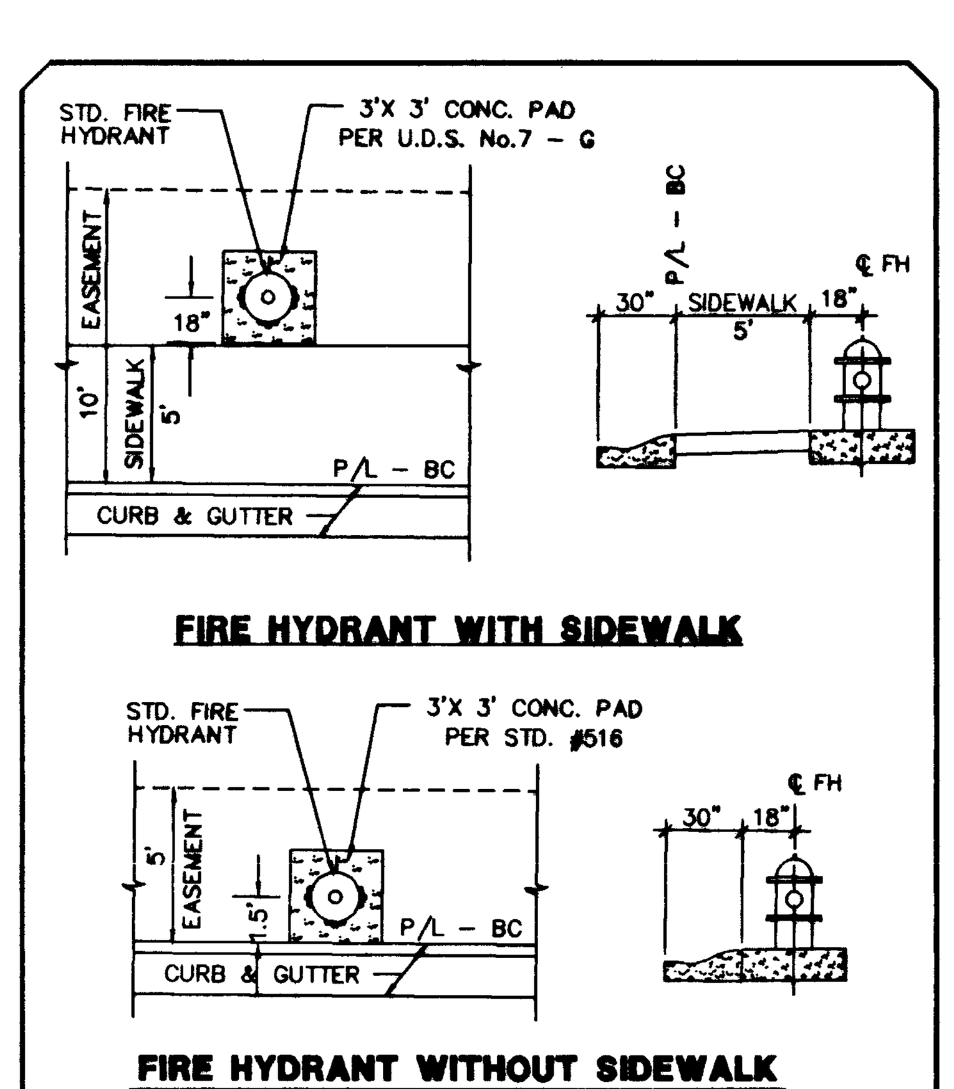
NOTE

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.

WATER CONSTRUCTION NOTES

No.	Item	Quantities: Private	Quantities: Public
1	INSTALL FIRE HYDRANT ASSEMBLY, COMPLETE PER U.D.S. PLATE NO. 7. INSTALL BOLLARDS TO PROTECT ON-SITE HYDRANTS WHERE NEEDED. (MAINTAIN CLEARANCES PER FIRE DEPARTMENT STANDARDS.)	9 EA.	
2	16" X 8" TAPPING SLEEVE AND TAPPING VALVE	1 EA.	
3	INSTALL 2" SERVICE SADDLE.		3 EA.
4	INSTALL 10" DOUBLE DOUBLE CHECK DETECTOR ASSEMBLY. (FEBCO MODEL 876 OR APPROVED EQUAL)		1 EA.
5	INSTALL 2" METER PER UDS PLATE NO. 1D WITH 2" RPPA PER UDS PLATE NO 11A.	3 EA.	
6	INSTALL 8" PVC FIRE SERVICE (PVC, C-900 CL 150) PER UDS PLATE NO. 6A, 6B, AND 6C.	2429 LF.	
7	INSTALL 8" TEE	7 EA.	
8	INSTALL 8"x6" TEE	8 EA.	
9	INSTALL 8" 90° BEND	6 EA.	
10	INSTALL 8" 45° BEND	6 EA.	
11	INSTALL 8" GATE VALVE PER UDS PLATE NO.	6 EA.	
12	INSTALL 2" PVC WATER SERVICE (PVC, C-900 CL 150) PER UDS PLATE NO. 6A, 6B, AND 6C.	3608 LF.	
13	INSTALL 6" PVC FIRE SERVICE (PVC, C-900 CL 150) PER UDS PLATE NO. 6A, 6B, AND 6C.	174 LF.	
14	INSTALL 8" PVC SEWER	655 LF	
15	INSTALL 6" PVC SEWER	510 LF	
16	CONSTRUCT SEWER MANHOLE	4 EA	
17	8" DIP	62 LF	

NOTE TO CONTRACTOR:
QUANTITIES SHOWN ARE APPROXIMATIONS ONLY AND ARE INTENDED TO ILLUSTRATE SCOPE OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT QUANTITIES INVOLVED.



FIRE HYDRANT LOCATION DETAIL

FIRE HYDRANT INSTALLATION

FIRE HYDRANT(S) TO BE INSTALLED IN ACCORDANCE WITH THE UDACS STANDARD PLATE NO. 7.
ESN.014

FIRE FLOW CALCULATIONS

THE FIRE FLOW REQUIREMENT IS: 2,250 GALLONS PER MINUTE 20 PSI RESIDUAL PRESSURE.

BASED ON:

SQUARE FOOTAGE:	43,500 SQUARE FEET
LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS:	N/A SQUARE FEET
BUILDING HEIGHT:	25 FEET
NUMBER OF STORIES:	2 FLOORS
TYPE OF CONSTRUCTION:	TYPE III-N
OCCUPANCY:	COMMERCIAL
FULL AUTOMATIC FIRE SPRINKLER SYSTEM:	YES

REVIEWED BY:

DATE: 12.18.98

APPROVAL:

LAS VEGAS VALLEY WATER DISTRICT — DATE 2/09/99

CITY OF LAS VEGAS FIRE DEPARTMENT — DATE 12.18.98

GRAPHIC SCALE

(IN FEET)
1 inch = 40 ft.

NORTH

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

Avoid overhead power line contact
Call before you OVERHEAD
1-702-593-6111
NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT

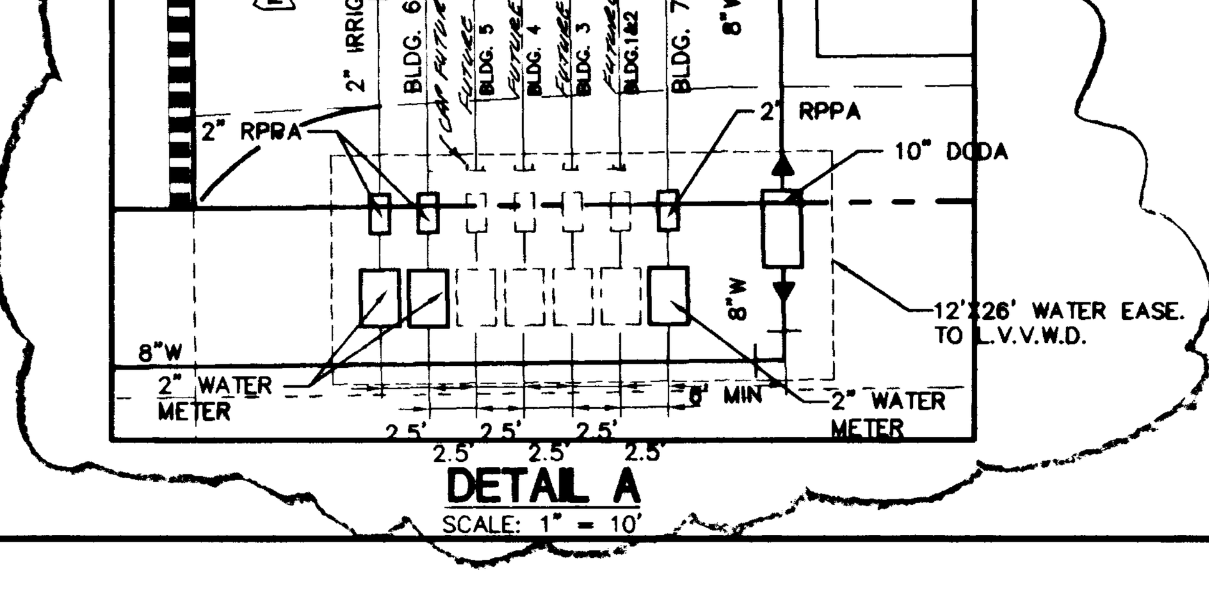
EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION. CALL BEFORE YOU DIG: 1-800-227-2600.

BENCHMARK

NATIONAL GEODETIC VERTICAL DATUM OF 1929 (DATUM USED)
OLV0031SSW6, RIVET & PLATE IN TOP OF CURB ON CHARLESTON BLVD. 1690' WEST OF GRAND CANYON DRIVE, NORTH CURB LINE AT DROP INLET.
CITY OF LAS VEGAS DATUM
ELEVATION = 2865.191
(FOR CONVERSION TO 1988 DATUM, ADD 2.46')

BASIS OF BEARINGS

NORTH 89°26'21" WEST, BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 32, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, AS SHOWN ON THAT CERTAIN MAP ON FILE IN THE CLARK COUNTY RECORDER'S OFFICE, IN BOOK 45 OF PLATS, AT PAGE 83



PECCOLE NEVADA CORP.
851 SOUTH RAMPART, SUITE 100
LAS VEGAS, NEVADA, 89128
(702)933-1111

PENTACORE
CIVIL ENGINEERING · LAND SURVEYING · PLANNING
CONSTRUCTION MANAGEMENT · ADA CONSULTING
6763 WEST CHARLESTON BOULEVARD
LAS VEGAS, NEVADA 89102 (702)258-0115

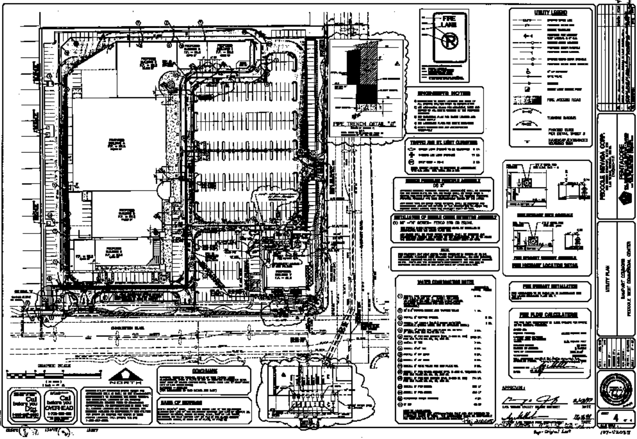
UTILITY PLAN

RAMPART COMMONS
PECCOLE WEST COMMERCIAL CENTER

DATE: AUG, 1998
JOB NO.: 0145.0038
SCALE: 1" = 40'

SHEET 4 OF 8

107-V3035



FIRE LANE
UTILITY LEGEND
FIRE ACCESS ROAD
TURNING RADIUS
ENGINEER'S NOTES
PIPE TRENCH DETAIL "D"
WATER CONSTRUCTION NOTES
FIRE HYDRANT INSTALLATION
FIRE FLOW CALCULATIONS
FIRE HYDRANT LOCATION DETAIL
APPROVAL:
GRAPHIC SCALE
NORTH
BENCHMARK
BASIS OF BEARINGS
Call before you Dig
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PECCOLE NEVADA CORP.
PENTACORE
UTILITY PLAN
PECCOLE WEST COMMERCIAL CENTER
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