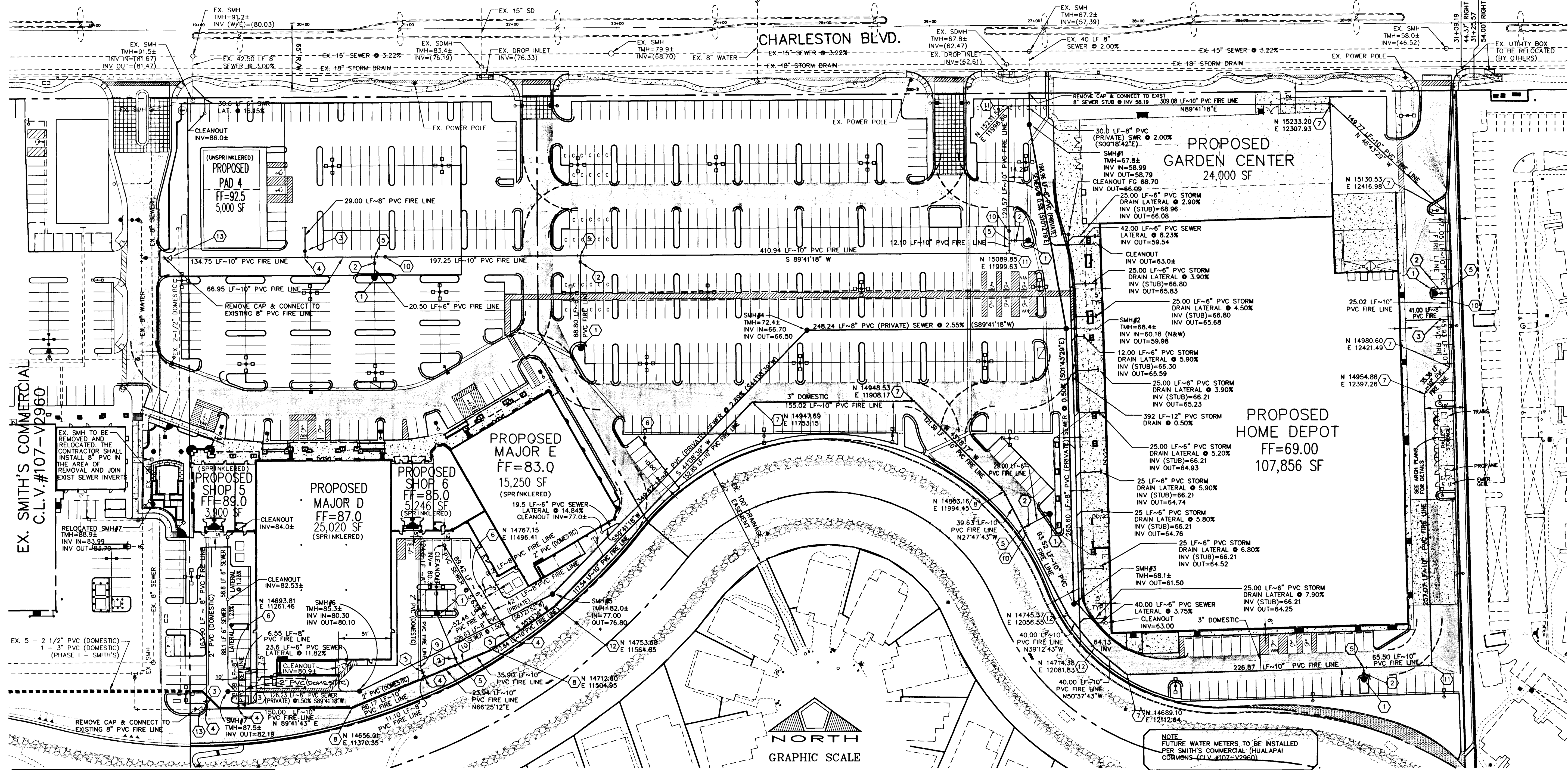




WATER CONSTRUCTION NOTES

FOR THIS SHEET

QUANTITIES (PRIVATE)	
10" PVC FIRE LINE	3,179 LF
8" PVC FIRE LINE	466 LF
6" PVC FIRE LINE	191 LF

- 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.
- INSTALL 8" GATE VALVE
- INSTALL 8" GATE VALVE
- INSTALL 10"x10"x8" TEE
- INSTALL 10"x10"x8" TEE
- INSTALL 8"-90° BEND
- INSTALL 10"-45° BEND
- INSTALL 10"-22 1/2° BEND
- INSTALL 8"-11 1/4° BEND
- INSTALL 10" GATE VALVE
- INSTALL 10"-90° BEND
- INSTALL 10"-11 1/4° BEND
- INSTALL 8"x10" REDUCER

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.

SANITARY SEWER CALCULATION

PEAK FLOW = .03 FT / SEC
DAILY AVERAGE = .02 MGD

ENGINEER'S NOTES

- CONTRACTOR TO VERIFY LOCATION AND SIZES OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- SEE MECHANICAL PLANS FOR LOCATIONS, SIZES AND DEPTHS OF ALL ON-SITE UTILITIES AT THE PROPOSED BUILDINGS.
- SEE ELECTRICAL PLAN FOR ON-SITE LIGHTING AND POWER SUPPLY.
- SEE LANDSCAPE PLANS FOR ON-SITE IRRIGATION.
- NOTIFY ENGINEER FOR ANY DISCREPANCIES IMMEDIATELY.
- PROVIDE ALL CLEANOUTS IN PAVED AREAS WITH VALVE BOXES, TRAFFIC BEARING LIDS AND CONCRETE COLLARS.
- THE DOMESTIC WATER SERVICE AND FIRE SERVICE FOR THIS PHASE IS PROVIDED BY THE FACILITIES PROPOSED AND CONSTRUCTED BY THE IMPROVEMENT PLANS ENTITLED "PECCOLE RANCH, PHASE II SMITH'S COMMERCIAL, C.L.V.# 107-V2960."
- ALL OFF-SITE (PUBLIC) STREETLIGHTS ARE EXISTING.
- ALL SEWER AND WATER CROSSING SHALL BE CONSTRUCTED IN ACCORDANCE WITH U.D.S. AND THE DESIGN & CONSTRUCTION STANDARDS FOR WASTE WATER COLLECTION TO PROVIDE MINIMUM CLEARANCES.

FIRE HYDRANT INSTALLATION

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

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK # 0LV00 31SSWS, BEING A RIVET AND PLATE IN TOP OF CURB ON CHARLESTON BLVD., 1690' WEST OF GRAND CANYON DRIVE, NORTH CURB LINE AT DROP INLET.
ELEVATION = 874.0618 METERS (NAVD 88)
ELEVATION = 2867.651 U.S. SURVEY FEET (COMPUTED NAVD 88)

REDUCE PRESSURE PRINCIPLE ASSEMBLY

(1) 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 LVWD.

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.

UTILITY LEGEND

EXISTING WATER LINE	
8" W	PROPOSED WATER LINE
6" W	SERVICE WATERLINE
4" W	PROPOSED FIRE HYDRANT W/6" LATERAL & 6" G.V.
3" W	EXISTING SEWER MANHOLE
2" W	PROPOSED SEWER MANHOLE
1" W	PROPOSED SEWER LATERAL
0" W	EXISTING STORM DRAIN MANHOLE
0" W	PROPOSED STORM DRAIN MANHOLE
0" W	0" LIP DRIVEWAY
0" W	GATE VALVE
0" W	REDUCER
0" W	STREET LIGHT SERVICE POINT
0" W	FIRE ACCESS ROAD
0" W	TURNING RADIUS
0" W	FIRE LANE (PAINTED RED CURBS)

FIRE LANE

RED
BLACK
RED
BLACK

CLEANOUT DETAIL (TYP.)

NO SCALE

FIRE HYDRANT LOCATION DETAIL

24" x 24" MIN
36" MIN
8" FH
CURB & GUTTER
BOLLARD (TYP.)

FIRE FLOW CALCULATIONS

THE FIRE FLOW REQUIREMENT IS: 3,900 GALLONS PER MINUTE 20 PSI RESIDUAL PRESSURE.

BASED ON:
SQUARE FOOTAGE: 107,856 SF.
LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS: NONE
BUILDING HEIGHT: 35
NUMBER OF STORIES: 1
TYPE OF CONSTRUCTION: V-NON RATED
OCCUPANCY: N/A
FULL AUTOMATIC FIRE SPRINKLER SYSTEM: YES

REVIEWED BY: *K. Smith*
DATE: 5/24/99

NOTE

APPROVAL FOR THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LAS VEGAS VALLEY WATER DISTRICT.

APPROVAL:

No District Facilities
LAS VEGAS VALLEY WATER DISTRICT
CITY OF LAS VEGAS FIRE DEPARTMENT

DATE: 5/24/99
DATE: 5/24/99

PECCOLE NEVADA CORP.

851 SOUTH RAMPART, SUITE 100
LAS VEGAS, NV 89128
(702) 933-1111

PENTACORE

CIVIL ENGINEERING - LAND SURVEYING - PLANNING
CONSTRUCTION MANAGEMENT - ADA CONSULTING
LAS VEGAS, NEVADA 89146 (702) 258-0015

UTILITY PLAN

HUALAPAI COMMONS
PHASE II (HOME DEPOT)

DATE: MAY 7, 1999
DRAWN BY: DPW
CHECKED BY: [Signature]
DESIGNED BY: [Signature]
JOB NO.: 0145.0039
SCALE: 1" = 50'

SHEET 4 OF 11
C.L.V. DWG.# 107-V3086

