

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 1500 gallons per minute
at 20 psi residual pressure.

BUILDING A:

Based on:

 SQUARE FOOTAGE: 1923 SF

 LARGEST AREA BETWEEN
 4-HOUR AREA SEPARATION
 WALLS: NA SF

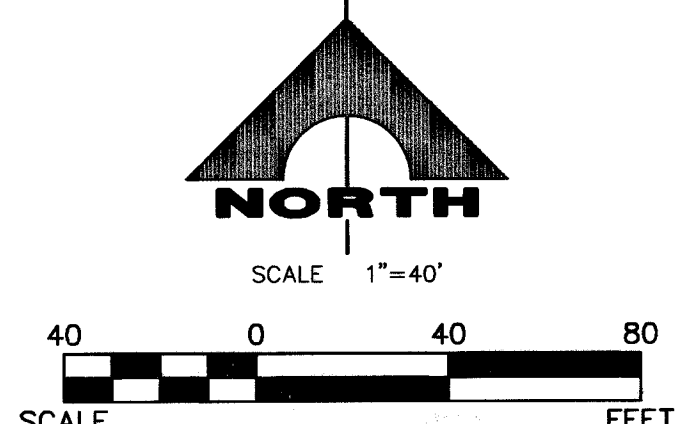
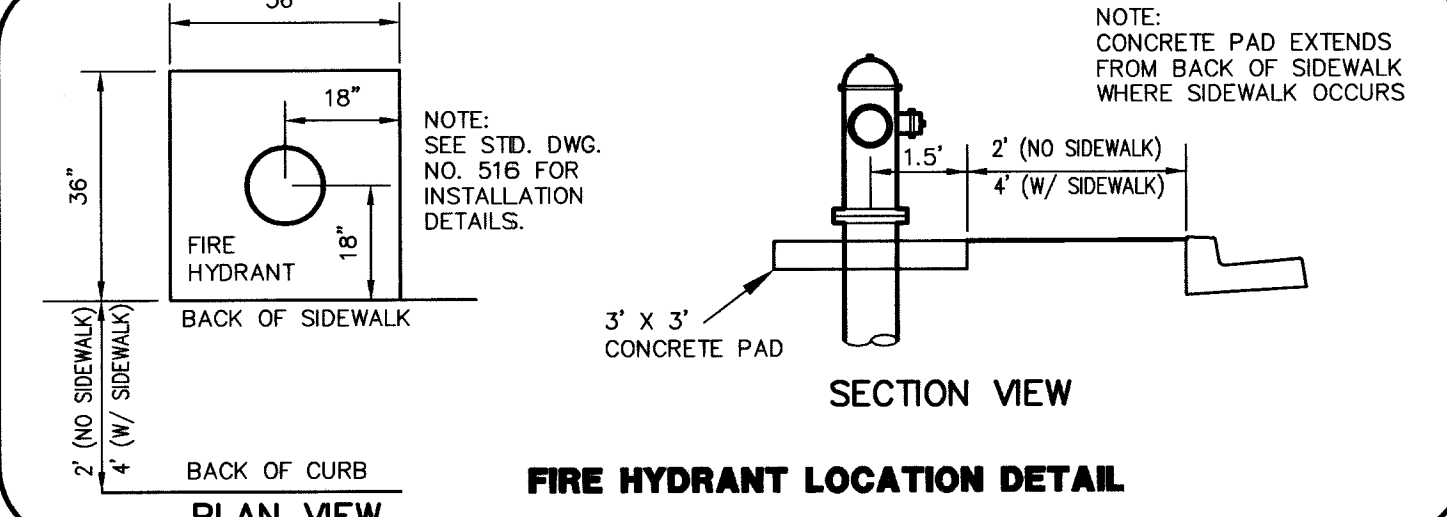
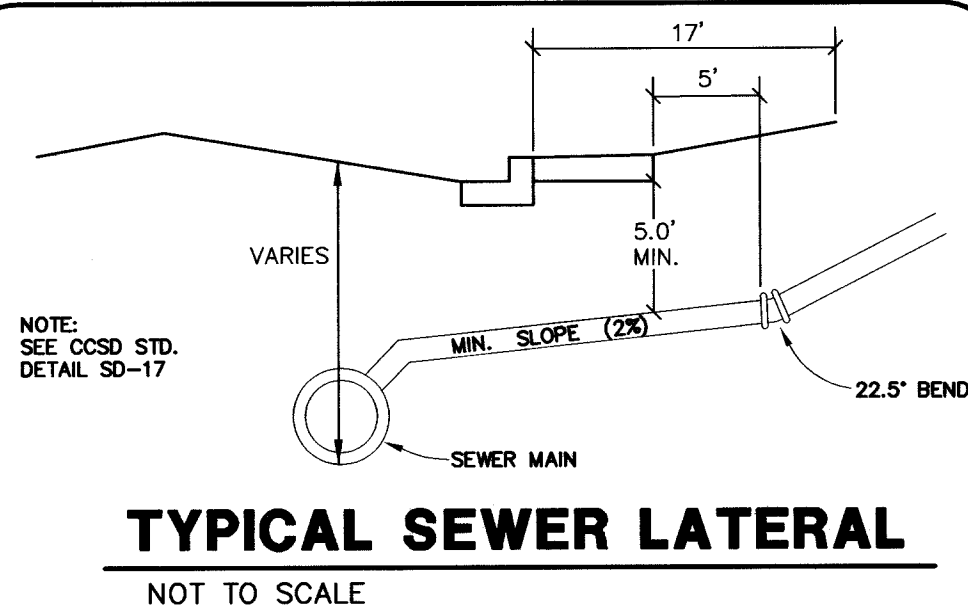
 BUILDING HEIGHT: 30 FEET

 NUMBER OF STORIES: 2

 TYPE OF CONSTRUCTION: TYPE V-N

 OCCUPANCY: R3

 FULL AUTOMATIC FIRE
 SPRINKLER SYSTEM: NO



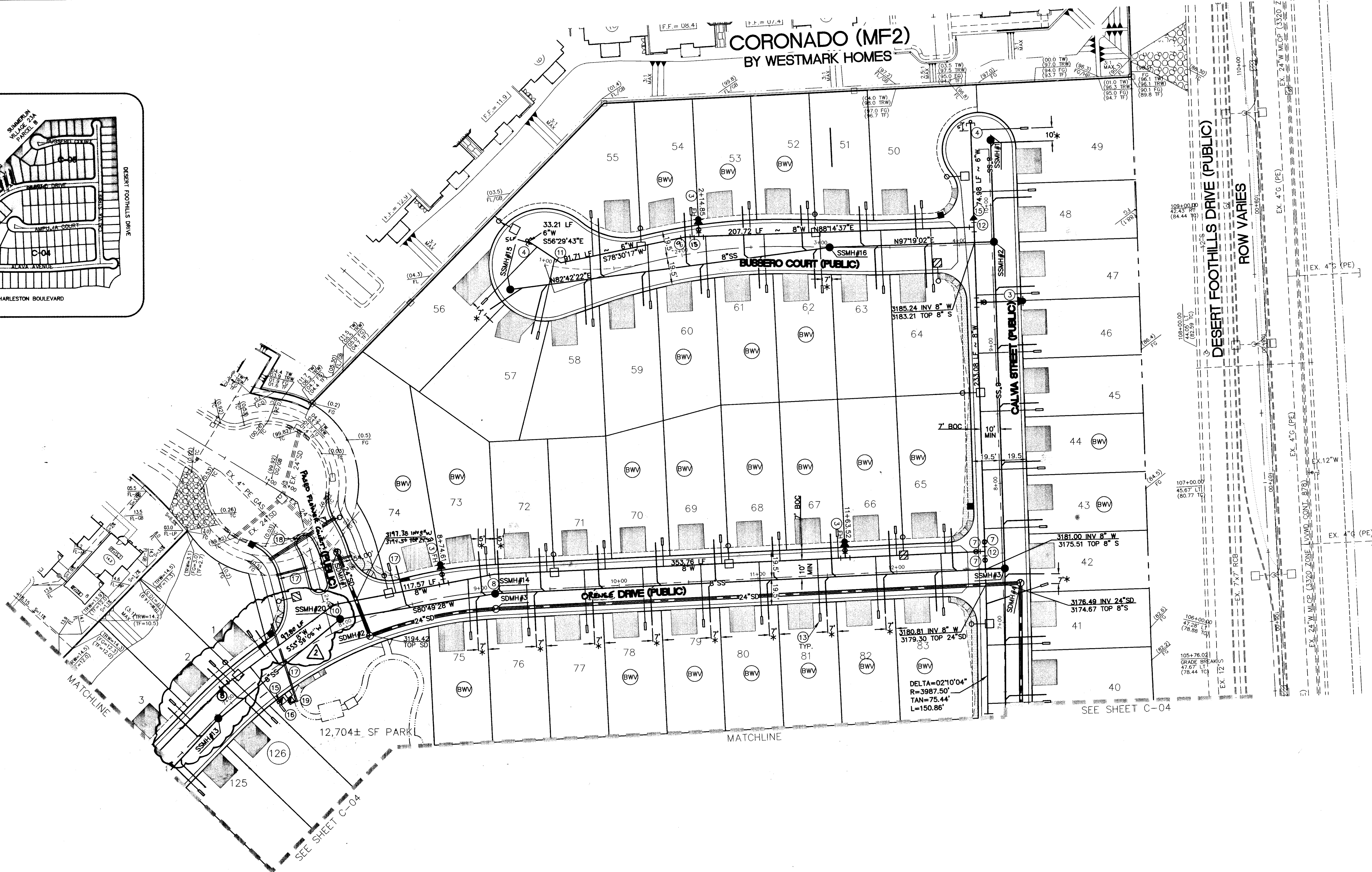
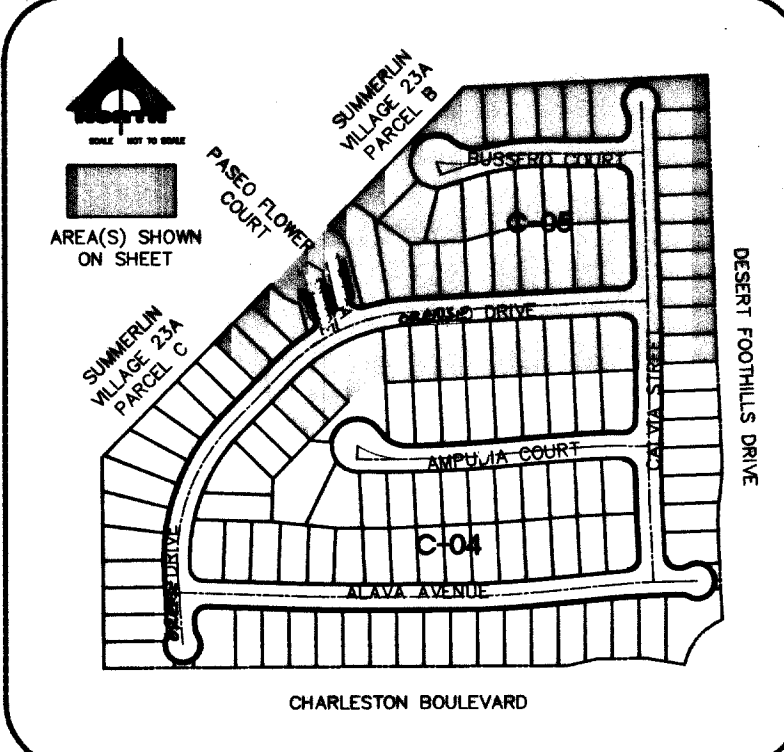
SEWER

DAILY AVERAGE: 126 ERU'S X 250 GPD/ERU = 31,500 GPD
 PEAK FLOW: 31,500 X 3.4 (PF) = 107,100 GPD

BENCHMARK			
CLV BM NO.	DESC.	NAVD 88 DATUM	NAVD 88 DATUM
D368 3	U.S.C. & G.S. BRASS DISC SET IN ROCK ON THE EAST SIDE OF CHARLESTON BOULEVARD AND SOUTH OF THE RED ROCK DETENTION BASIN.	3246.71 (FEET)	989.599 (METERS)

BASIS OF BEARINGS

NORTH 89°45'05" EAST BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 35, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., AS SHOWN BY MAP ON FILE IN FILE 91, PAGE 28 OF PARCEL MAPS IN THE CLARK COUNTY RECORDER'S OFFICE, CLARK COUNTY, NEVADA



- ## CONSTRUCTION NOTES
- (1) REMOVE PLUG AND CONNECT
 - (2) REMOVE CAP AND BLOW-OFF AND CONNECT PER UDACS PLATE 4A NOTE 1
 - (3) INSTALL FIRE HYDRANT ASSEMBLY (PER UDACS PLATE NO. 7) AND DETAIL
 - (4) INSTALL 2" BLOW-OFF ASSEMBLY PER UDACS PLATE NO. 4A
 - (5) VERIFY SIZE, LOCATION AND INVERT OF EXISTING IMPROVEMENTS
 - (6) INSTALL 8" DUCTILE IRON PIPE
 - (7) INSTALL 8" GATE VALVE PER UDACS PLATE 3 & 8
 - (8) INSTALL 8" 90° BEND W/MECHANICAL RESTRAINT JUNT
 - (9) INSTALL 8" 11.25' ELBOW PER UDACS PLATE 5
 - (10) INSTALL 8" 22.50' ELBOW PER UDACS PLATE 5
 - (11) INSTALL 8" 45.00' ELBOW PER UDACS PLATE 5
 - (12) INSTALL 8"x8"x8" TEE PER UDACS PLATE 5
 - (13) INSTALL 1" SERVICE W/5/8" METER PER UDACS PLATE 1D
 - (14) INSTALL 12" TO 8" REDUCER
 - (15) INSTALL 8"x6" REDUCER PER UDACS PLATE 3
 - (16) INSTALL 1" RPPA (HRR) PER UDACS PLATE 1A
 - (17) INSTALL 1" SERVICE W/3/4" METER PER UDACS PLATE 1D
 - (18) 2-4" IRRIGATION SLEEVES PER SSD U-18
 - (19) 1-4" AND 2-4" IRRIGATION SLEEVES PER SSD U-18
 - (20) SERVICE PEDESTAL FOR IRRIGATION METER

Avoid cutting underground utility lines. It's costly.

**Call
before you
Dig.**

1-800-227-2600

UNDERGROUND SERVICE (USA)

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.

**CALL BEFORE
YOU DO
OVERHEAD**



1-702-227-2929

- # UTILITY LEGEND
- | | |
|---|---|
|  | BLOCK NUMBER |
|  | PRESSURE REDUCING VALVE |
|  | WATER LINE |
|  | EXISTING WATER LINE |
|  | WATER SERVICE 5/8" TYP. |
|  | GATE VALVE |
|  | EXISTING GATE VALVE |
|  | CAP W/ 2" BLOW OFF |
|  | FIRE HYDRANT |
|  | EXISTING FIRE HYDRANT |
|  | PRESSURE REDUCING VALVE |
|  | BACK WATER VALVE |
|  | SEWER LATERAL |
|  | SEWER LINE/SSMH |
|  | EXISTING SEWER MANHOLE |
|  | CONCRETE DRIVEWAY |
|  | FINISH FLOOR |
|  | SUMMERLIN TYPE 38
100W HPS LUMINAIRE |
|  | SUMMERLIN TYPE 3A
150W HPS LUMINAIRE |
|  | FUTURE STREET LIGHT |

APPROVED FOR CONSTRUCTION

[Signature] 3/24/04
CLYDE DEPARTMENT DATE

APPROVED FOR CONSTRUCTION

[Signature] 3/23/04
LAS VEGAS VALLEY WATER DISTRICT DATE
PROJ. 28853

[illegible]