LEGEND:

- PROPOSED PVC SEWER MAIN WITH 4" MANHOLE
- PROPOSED PVC WATER MAIN AND GATE VALVE
- PROPOSED FIRE HYDRANT ASSEMBLY
- EXISTING PVC SEWER MAIN WITH EXISTING MANHOLE
- EXISTING PVC WATER MAIN AND GATE VALVE
- EXISTING FIRE HYDRANT ASSEMBLY
- PROPOSED 1" WATER SERVICE LATERAL WITH 5/8" METER, STUB & PLUG
- PROPOSED 4" SEWER LATERAL AND CLEANOUT
- PROPOSED DRIVEWAY LOCATIONS
- EXISTING STREET LIGHT
- PROPOSED STREET LIGHT
- PROPOSED STREET LIGHT CONDUIT
- PROPOSED NO. 3 1/2 PULL BOX

NOTES:

1. HUNSAKER & ASSOCIATES SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES IN THE PLANS OR CONDITIONS IN THE FIELD.
2. ALL UTILITY INSTALLATION SHALL CONFORM TO LAS VEGAS VALLEY WATER DISTRICT STANDARDS AND THE UNIFORM PLUMBING CODE.
3. ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENT HAVE BEEN OBTAINED FROM THE OFFSITE OWNER.
4. ALL WORK PERFORMED WITHIN THE PUBLIC RIGHT-OF-WAY AND OUTSIDE THE PROJECT BOUNDARY SHALL BE PERFORMED UNDER A SEPARATE ENCROACHMENT PERMIT ISSUED BY THE CONTROLLING AUTHORITY.
5. ALL FIRE HYDRANTS SHALL BE PLACED A MIN. 18" BEHIND BACK OF SIDEWALK.
6. CONTRACTOR SHALL PROVIDE A MINIMUM OF 11 FEET SEPARATION BETWEEN WATER MAIN AND SANITARY SEWER MAIN.
7. PRIOR TO CONSTRUCTION CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS AND SHALL CONTACT ENGINEER IF ANY DISCREPANCIES ARE FOUND.
8. FIRE HYDRANT STATIONING REFERENCES TEE LOCATION.
9. ADD 2400' TO ALL ELEVATIONS SHOWN.
10. REFER TO MASTER PLAN (SHEET 2 OF 8) FOR LOCATION OF S.P. & R.C.O.C. FOR STREETLIGHT CIRCUIT.
11. DRIVEWAY INSTALLATION SHALL CONFORM TO UNIFORM STD. DRAWINGS 222 AND 223.

* SEWER LATERALS WERE PLACED DURING THE CONSTRUCTION OF UNIT 1.

VALVES MUST BE IN THE CLOSED POSITION PRIOR TO REMOVING CAP.

MAGNETIC

40 20 0 20 40 80

SCALE: 1"=40'

BENCHMARK:

CITY OF LAS VEGAS BENCHMARK, STATION CLVD016NW46 RIVET & PLATE IN TOP OF CURB, SW RETURN OF CHEYENNE AVENUE AND SOARING GULLS DRIVE.

ELEVATION = 2430.417' (NAVD88)

BENCHMARK COORDINATION:

THE CITY OF LAS VEGAS BENCHMARK USED FOR THIS PLAN(SHOWN ABOVE) IS 2.43' HIGHER THAN THE CITY OF LAS VEGAS BENCHMARK USED BY VTN, NEVADA (BM# CLVD017NES) FOR NORTHSHORES PHASE 1A IMPROVEMENT PLANS. THE CITY OF LAS VEGAS REFERENCE NUMBER FOR THESE PLANS IS 1071-4318-1A.

SEWER QUANTITIES

8" SEWER LINE	1415 L.F.
4" SEWER SERVICE LATERALS	48 EA.
SEWER MANHOLES	5 EA.

WATER QUANTITIES

8" WATER LINE	1201 L.F.
6" WATER LINE	147 L.F.
1" WATER SERVICE LATERALS W/ 5/8" METER	50 EA.
FIRE HYDRANT ASSEMBLY	2 EA.
8" TEES	1 EA.
BLOWOFF ASSEMBLY	1 EA.
8"X 6" TEE	2 EA.
90° ELBOW	2 EA.
8"X 6" REDUCER	1 EA.

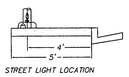
SEWER CONTRIBUTION

50 ERU @ 90,000 GPY/EACH
APPROXIMATELY 12,329 GPD TOTAL
PEAK FACTOR = 3.3
APPROXIMATE PEAK FLOW = 40,685 GPD

A 1" x 3/4" angle meter stop and 3/4" meter box will be required with the 1" service laterals for all services with 5/8" or 3/4" services. Details of the above installation are available from the Engineering Services Division and from the District's Inspectors.

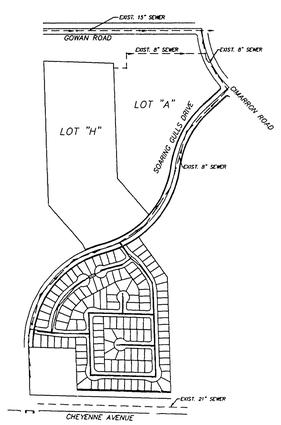
KEY NOTES:

1. INSTALL BLOWOFF ASSEMBLY
2. INSTALL 8" GATE VALVE
3. INSTALL 8"x6" TEE, 6" GATE VALVE, AND FIRE HYDRANT ASSEMBLY.
4. INSTALL 8" TEE W/THRUST BLOCK
5. INSTALL 90° ELBOW W/THRUST BLOCK
6. REMOVE PLUG AND CONNECT TO EXISTING 8" WATER STUB.
7. INSTALL NO. 3 1/2 PULL BOX PER CITY STANDARDS
8. INSTALL 8"x 6" REDUCER



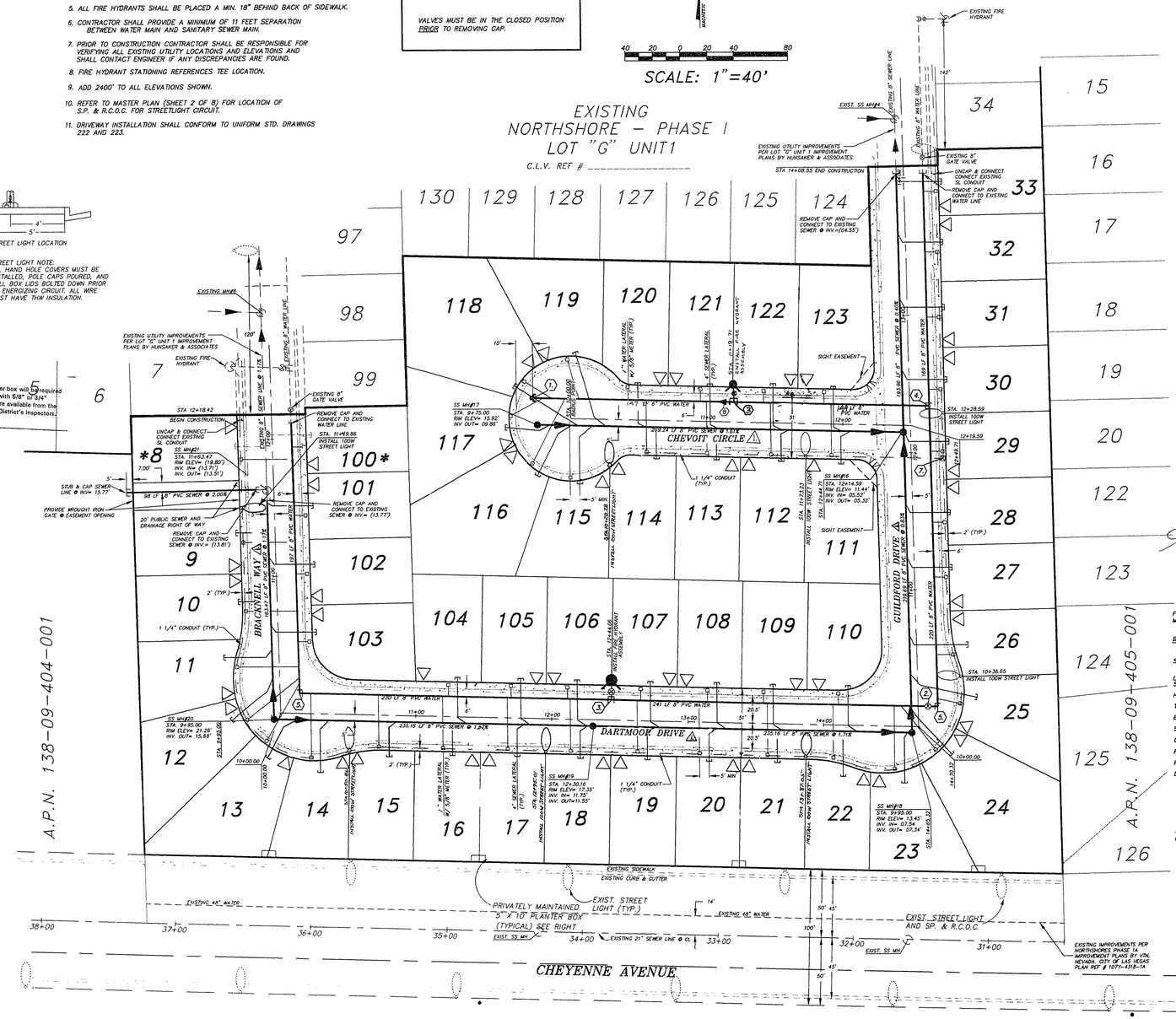
STREET LIGHT LOCATION

STREET LIGHT NOTE:
ALL HAND HOLE COVERS MUST BE INSTALLED, POLE CAPS POURED, AND PULL BOX LIDS BOLTED DOWN PRIOR TO ENERGIZING CIRCUIT. ALL WIRE MUST HAVE THW INSULATION.



SEWER VICINITY MAP

NO SCALE


EXISTING NORTHSHORE - PHASE I LOT "G" UNIT1
C.L.V. REF # _____
NORTHSHORE - PHASE I LOT "F"
C.L.V. REF # _____
APN# 138-09-301-002
APN# 138-09-812-001
APN# 138-09-812-002
A.P.N. 138-09-404-001
A.P.N. 138-09-405-001
CHEVOIT CIRCLE
BRACKNELL WAY
GUILDFORD DRIVE
DARTMOOR DRIVE
CHEYENNE AVENUE
EXISTING SIDEWALK
EXISTING CURB & GUTTER
PRIVATELY MAINTAINED 5' X 10' PLANTER BOX (TYPICAL) SEE RIGHT
EXIST. STREET LIGHT (TYP.)
EXIST. STREET LIGHT AND SP. & R.C.O.C.
EXISTING IMPROVEMENTS PER NORTHSHORES PHASE 1A IMPROVEMENT PLANS BY VTN, NEVADA. CITY OF LAS VEGAS PLAN # 1071-4318-1A
EXISTING 21" SEWER LINE @ CL
EXISTING 48" WATER
EXISTING 4" WATER
EXIST. SS MH
EXISTING FIRE HYDRANT
EXISTING UTILITY IMPROVEMENTS PER LOT "G" UNIT 1 IMPROVEMENT PLANS BY HUNSAKER & ASSOCIATES
STA 14+08.55 END CONSTRUCTION
REMOVE CAP AND CONNECT TO EXISTING SEWER @ INV.=(04.55')
EXIST. SS MH#4
EXISTING 8" GATE VALVE
UNCAP & CONNECT CONNECT EXISTING SL CONDUIT
REMOVE CAP AND CONNECT TO EXISTING WATER LINE
SIGHT EASEMENT
STA. 12+28.59
INSTALL 100W STREET LIGHT
STA. 10+36.65
INSTALL 100W STREET LIGHT
STA. 12+18.42
BEGIN CONSTRUCTION
UNCAP & CONNECT CONNECT EXISTING SL CONDUIT
SS MH#21
STA. 11+63.47
RIM ELEV= (19.80')
INV. IN= (13.71')
INV. OUT= (13.51')
STA. 9+75.00
RIM ELEV= 15.92'
INV OUT= 09.66'
STUB & CAP SEWER LINE @ INV= 13.77'
PROVIDE WROUGHT IRON GATE @ EASEMENT OPENING
20' PUBLIC SEWER AND DRAINAGE RIGHT OF WAY
REMOVE CAP AND CONNECT TO EXISTING SEWER @ INV.= (13.81')
REMOVE CAP AND CONNECT TO EXISTING SEWER @ INV.= (13.77')
EXISTING 8" GATE VALVE
STA. 9+75.00
INSTALL 100W STREET LIGHT
SS MH#20
STA. 9+95.00
RIM ELEV= 21.26'
INV. OUT= 15.68'
SS MH#19
STA. 12+30.16
RIM ELEV= 17.35'
INV. IN= 11.75'
INV. OUT=11.55'
SS MH#18
STA. 9+95.00
RIM ELEV= 13.45'
INV. IN= 07.54
INV. OUT= 07.34'
STA. 14+65.32
STA. 10+00.00
STA. 12+14.59
RIM ELEV= 11.44'
INV. IN= 05.52'
INV. OUT= 05.32'
STA. 11+33.33
INSTALL 100W STREET LIGHT
STA. 13+44.00
INSTALL 100W STREET LIGHT ASSEMBLY
STA. 11+49.71
INSTALL 100W STREET LIGHT ASSEMBLY
STA. 10+00.00
STA. 9+95.00
STA. 12+50.00
STA. 13+50.00
STA. 14+50.00
INSTALL 100W STREET LIGHT
INSTALL 100W STREET LIGHT ASSEMBLY
INSTALL 100W STREET LIGHT ASSEMBLY
INSTALL 100W STREET LIGHT ASSEMBLY