

**CITY OF NORTH LAS VEGAS ADDENDA FOR
DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER
COLLECTION SYSTEMS**

GENERAL INFORMATION

Septic tanks and leach fields are not allowed. Case by case review and prior approval required by CNLV Director of Utilities.

Under no circumstance will encasement of sewer mains and laterals with concrete be allowed.

Anytime a sewer main is placed underneath a 36" or larger diameter pipe (storm drain, water main, etc.) The sewer main must be encased in a steel sleeve per UDACS plate 23.

All contractors who perform work in the City of North Las Vegas must have a City of North Las Vegas business license.

All concrete mix designs to meet IQAC (Inter-Agency Quality Assurance Committee) standards.

DESIGN STANDARDS

2.2.2. Pipe Size Requirements

$d/D=0.75$ is used for sewer capacity in the City of North Las Vegas.

2.2.3. Pipe Slope Requirements

2.2.3.e. Velocities may not exceed 10 feet per second. Energy Dissipation is not allowed.

2.2.4. Curved Sewer

Curved sewer mains are not allowed in the City of North Las Vegas.

2.2.7. Conditions Requiring a Standard manhole

2.2.7.e. ADD: Minimum connection to a manhole is an 8" pipe.

2.2.8. Maximum Distance Between manholes

Pipe Size
All sizes

Maximum Distance
450 feet

2.2.10. Manholes and Manhole Appurtenances

2.2.10.f. All manholes in the City of North Las Vegas that are installed on sewer main larger than 12" in diameter and deeper than 12' (regardless of pipe size) will be required to use the dual cover lids (24" lid in a 36" lid per SD-2 or SD-3) All manholes that are installed on sewer main 12" in diameter and smaller and 12' or less in depth will use a 24" lid per SD-2A (attached) unless otherwise directed by City of North Las Vegas staff.

2.2.10.i.- #8. All new infrastructure (i.e. manhole) installed in the City of North Las Vegas shall require corrosion protection. The application of corrosion protection is to be inspected and approved by a City of North Las Vegas Utilities Department Representative. Coordinate with the City of North Las Vegas Utilities Department for approved manufacturer(s).

2.2.10.i.- #9. All manholes that are adjusted or modified in the City of North Las Vegas shall require that the existing corrosion protection be replaced utilizing the same manufactured product. However, the matching corrosion protection system shall be coated with a color approved by the Agency having jurisdiction. The contractual warranty shall apply to the corrosion protection system. Coordinate with the City of North Las Vegas Utilities Department for the manufacturer of existing coating.

2.2.10.g. Steps are not allowed in City of North Las Vegas manholes.

2.2.19. Lateral Connections into Collector Sewers and Manholes

4" and 6" laterals are not allowed to be connected into manholes. 4" and 6" laterals must be connected to 8" to 12" sewer pipe with wyes' per SD-22.

2.2.20. Additional Requirements for Large Multi-Family (Greater Than Four Units Per Building), Commercial and Industrial Laterals

4" and 6" laterals are not allowed to be connected into manholes. 4" and 6" laterals must be connected to 8" to 12" sewer pipe with wyes' per SD-22

2.3.3. Data Sheet Required

Data sheet in Table "E" not used. Go to www.cityofnorthlasvegas.com "online forms" and complete appropriate submittal application.

2.5. Design Criteria for Force Mains

Force mains are not allowed to be used in the City of North Las Vegas, unless otherwise approved by the Director of Utilities.

CONSTRUCTION STANDARDS

3.13.4. Pipe Zone Backfill

Type II is the only acceptable material to be used in the pipe zone. Sand or crushed rock is not allowed.

3.16.8. Corrosion Protection (required by CNLV Utilities Department)

3.16.8. Corrosion Protection (required by CNLV Utilities Department)

Corrosion protection is required for new and existing infrastructure that is installed, adjusted, or modified in the field. The corrosion protection is to match the existing manufactured product. However, the matching corrosion protection system shall be coated with a color approved by the Agency having jurisdiction. Coordinate with the City of North Las Vegas Utilities Department for the manufacturer of the existing corrosion protection system. Corrosion protection on new infrastructure shall be per Section 3.16.8 and Section 4.9.9.

3.17.4. Tapping VCP, NRCP, or ACP pipes

Tap location to be encased in CLSM.

4.9.9. Manhole Interior Corrosion Protection

c. Field-Applied Corrosion Protection for New or Existing Infrastructure

Corrosion protection is required for all new and existing infrastructures that are installed, adjusted or modified in the City of North Las Vegas.

d. Field-Adjusted or Modified Components

Corrosion protection is required for manhole components that are adjusted or modified in the field. The corrosion protection is to match the existing manufactured product. However, the matching corrosion protection system shall be coated with a color approved by the Agency having jurisdiction. Coordinate with the Agency having jurisdiction for the manufacturer of the existing corrosion protection system.

TABLES

Tables “E” and “F” not used in the City of North Las Vegas.

STANDARD DRAWINGS

All drawings:

Manhole frame and cover per SD-2, SD-2A, or SD-3 as applicable.

SD-1A Standard Pre-Cast Manhole

Steps are not required in City of North Las Vegas manholes unless otherwise requested by City of North Las Vegas staff.

Stainless steel "U" lugs are not required to be installed in City of North Las Vegas manholes unless otherwise requested by City of North Las Vegas staff.

Coating (Corrosion Protection) of interior concrete surfaces is required. Refer to Section 3.16.8 and Section 4.9.9.

SD-1B Standard Precast Manhole

Table of dimensions: "C" = 12" and "F" = 22" for manholes requiring just the 24" lid, regardless of manhole diameter.

Coating (Corrosion Protection) of interior concrete surfaces is required. Refer to Section 3.16.8 and Section 4.9.9.

SD-2A Standard Manhole Cover and Ring

Add drawing SD-2A to standards.

Coating (Corrosion Protection) of interior concrete surfaces is required. Refer to Section 3.16.8 and Section 4.9.9.

SD-5 Grade Ring Sequence

Coating (Corrosion Protection) of interior concrete surfaces is required. Refer to Section 3.16.8 and Section 4.9.9.

SD-6 Standard Manhole Steps

Steps are not allowed in City of North Las Vegas manholes unless otherwise requested by City of North Las Vegas staff.

SD-7 Cast-in-Place Manhole Base Installed in Existing Sewer

Coating (Corrosion Protection) of interior concrete surfaces is required. Refer to Section 3.16.8 and Section 4.9.9.

SD-11 Force Main Connection to Public Sewer Manhole

Coating (Corrosion Protection) of interior concrete surfaces is required. Refer to Section 3.16.8 and Section 4.9.9.

SD-12 Special Manholes-Agency Authorization Required

Coating (Corrosion Protection) of interior concrete surfaces is required. Refer to Section 3.16.8 and Section 4.9.9.

SD-13 Special Shallow Manholes

Coating (Corrosion Protection) of interior concrete surfaces is required. Refer to Section 3.16.8 and Section 4.9.9.

SD-14 Pipe Bedding Methods

Type II is the only acceptable material to be used in the pipe zone. Sand or crushed rock is not allowed.

SD-21 Protection of Sanitary Sewer under a utility

Drawing not used. Concrete encasement of sewer not allowed in City of North Las Vegas.

SD-29 Residential Sewer Backwater Valve

Backwater valves not allowed for use in the City of North Las Vegas.

SD-34 Pretreatment Sampling Manhole

This standard drawing is not used in the City of North Las Vegas. Use the City of North Las Vegas "Sand/Oil or Grease Interceptor with Sample Manhole" standard detail.