SECTION 1

Section 1.01.73 Fire Service Meter
ADD: Type I is not approved for installation in the City of North Las Vegas service area.

Section 1.01.107 Pressure Reducing Valve (PRV) or Pressure Regulator
ADD: A valve for automatically sustaining or reducing water pressure in a main, lateral, or service line at or to a preset value. The term includes a pressure-reducing valve, a pressure-sustaining valve, and a valve that incorporates both features.

Section 1.01.108 Pressure Regulating Valve
ADD: A valve to protect against downstream static pressure damage. Should the downstream flow be stopped, the regulator immediately responds and limits the downstream pressure thus preserving the integrity of the downstream appurtenances.

Section 1.01.110 Pressure Vacuum Breaker
ADD: A vacuum breaker that:
A. Contains an independently operating, internally loaded approved check valve, and an independently, loaded air inlet valve located on the discharge side of the approved check valve; and
B. Is equipped with properly located, resilient seated test cocks and tightly closing, resilient seated shutoff valves that are attached at each end of the assembly.

Section 1.06 Overtime Inspection Fee
ADD: Overtime inspection shall apply whenever a contractor is performing work within the proximity of CNLV facilities outside of normal working hours.

SECTION 2

Section 2.03.01 Submittal of Hydraulic Analysis for Review and Approval
Delete and replace with: A. The hydraulic analysis report shall be submitted with the project design for review. However, for larger projects such as a major subdivision, submitting a hydraulic analysis report prior to water plan submission may be required.

Section 2.03.04.B Source HGL and Demand Calculations
ADD: In the written report of the analysis, account for these types of losses. Do not include these types of appurtenances in the model.

Section 2.10.01 Steel Casing and Reinforced Concrete Pipe (RCP)
RCP casings are not approved for installation in the City of North Las Vegas service area.

Section 2.11.01 Valves
ADD: K. A minimum of two (2) valves shall be located at every mainline tee, or three (3) valves at every mainline cross.

Section 2.11.02 Gate Valves
ADD: E. The installation of a valve vault is required for all gate valves greater than twelve (12) inches.

Section 2.12 Abandonment of Main
ADD: The City of North Las Vegas Utilities Department requires removal of main to be abandoned, unless otherwise approved by Engineering Services. If the main is allowed to be abandoned in place, it shall be filled with CLSM material.

Section 2.15 Mechanically Restrained Joints
ADD: Mechanically restrained joints are required for all mains twelve-inch (12") and larger, and maybe used for smaller diameter mains at the discretion of the City of North Las Vegas. The length of restrained joints shall be clearly identified on drawings, and calculations shall be submitted with the project for City of North Las Vegas' review and approval. Refer to the City of North Las Vegas web address (http://www.cityofnorthlasvegas.com/About/PDFs/MechanicalJointRestraints.pdf) for guidance.

Section 2.21.01 Fire Hydrants Location and Spacing
ADD: Within 15 feet from back of curb return or driveway in an industrial or commercial area.

Section 2.22.01.B.2.c.2 and 2.22.01.B.3 Parallel separations (Mains)
ADD: The City of North Las Vegas Utilities Department does not allow cement slurry encasement of water or sewer mains unless no other alternative can be utilized. Final decision is at the discretion of the City of North Las Vegas.

Section 2.22.02.B.3.c and 3.d Crossing Separations (Mains)
ADD: The City of North Las Vegas Utilities Department does not allow cement slurry encasement of water or sewer mains unless no other alternative can be utilized. Final decision is at the discretion of the City of North Las Vegas.
Section 2.24.01.A Taps 4 inches and larger

ADD: The City of North Las Vegas Utilities Department requires stainless steel tapping sleeves when tapping an existing Asbestos Cement Pipe.

Section 2.24.01.B Taps 4 inches and larger

ADD: Size on size taps are not allowed in the City of North Las Vegas service area.

Section 2.26.02.B Size

ADD: The City of North Las Vegas Utilities Department requires easements in accordance with these Standards.

Section 2.27.02 Water Plan Drawing Submittal Requirements

ADD: All water system plans submitted to the City of North Las Vegas shall contain the most recent set of "Standard Notes" required by the City of North Las Vegas Engineering Services Division.

Section 2.27.02.13 Water Plan Drawing Submittal Requirements

ADD: Profiles will be provided for all mains greater than or equal to 8 inches in diameter.

Section 2.27.05.A Approval Requirements

ADD: The City of North Las Vegas Utilities Department does not provide preliminary plan technical approval.

Section 2.28 Nevada Department of Transportation (NDOT) Permits

ADD: Refer to submittal application for NDOT Encroachment permit at http://www.cityofnorthlasvegas.com/About/PDFs/SubmittalAppforNDOTEncroachmentPermit.pdf for requirements.

SECTION 3

Section 3.01 Standard Specifications


Section 3.09 Record Drawings

ADD: Record Drawings as required under this section shall include at a minimum:

1. "As-Built" Format:
   A. 24"x36" Mylar (min. 4 mil. thickness).
   B. The word "As-Built" in large letters.
   C. Streets and easements identified.
   D. All "proposed" information removed, leaving only "As-Built" information.
   E. Digital Submittal (CD) per the City of North Las Vegas Utilities Department requirements.

2. Water "As-Buils" must include:
   A. Plan showing size, material and offset of main deflections (if any), location of service laterals at property lines (also stationing at main, if not perpendicular to the main), stationing of all fittings and appurtenances (fire hydrants, air vacs and blowoffs), stationing for all valves and offsets for valves on laterals and intersecting mains.
   B. Finished grade and top of pipe elevations every 600 feet, at intersecting mains and at grade changes for all mains 14" and larger or any mains installed in streets with right-of-way 80 feet or greater.
   C. Finished grade and top of gate valve operating "nut" elevations for all gate valves on mains. Make and model of gate valves to be given.
   D. Stationing and alignment of any existing utilities the main crosses at the time of installation.

Section 3.10.01.G Excavation

ADD: The City of North Las Vegas Utilities Department does not allow CLSM to be placed in the pipe zone.

Section 3.10.04 Pipe Zone Backfill

ADD: The City of North Las Vegas Utilities Department does not allow CLSM to be placed in the pipe zone.

Section 3.10.05 Trench backfill

ADD: The City of North Las Vegas Trench Backfill Policy shall take precedence.

Section 3.12 Installation of pipe casing

ADD: RCP Casings are not approved for installation in the City of North Las Vegas service area.

Section 3.14.02 Connection to existing facilities

ADD: Size on size taps are not allowed in the City of North Las Vegas service area.
CURRENT NORTH LAS VEGAS ADDENDA

Section 3.17.01 Cementatious Materials
DELETE: “Il or” in the first sentence.

Section 3.19.05.B Tapping Sleeves (other than steel pipe)
ADD: Stainless Steel tapping sleeves shall be used on Asbestos Cement Pipe in the City of North Las Vegas service area.

Section 3.19.05.C Tapping Sleeves (other than steel pipe)
ADD: Note 3: Size on size taps are not allowed in the City of North Las Vegas service area.

Section 3.19.10 Polyethylene (PE) Tubing
ADD: Polyethylene (PE) tubing is not approved for water service installations

Section 3.19.14 Fire Hydrants
ADD: Private fire hydrants shall be painted red. Public fire hydrants shall be painted yellow.

Section 3.24.02.E Lateral Installation
ADD: Coupling location to be determined by the City of North Las Vegas Utilities inspector.

Section 3.27.02 Disinfection
ADD: Required disinfection concentration levels may be attained utilizing tablets as outlined in ANSI/AWWA Standard C651-86.

STANDARD PLATES

PLATE 1 New Service Installation
Legend 3, ADD: Per Section 3.19.11.
Legend 6, ADD: The City of North Las Vegas installs all meters 2" and smaller

PLATE 2 New Service Installation
Plate 2 is not approved for installation in the City of North Las Vegas service area.

PLATE 3 New Service Installation
Legend 3, ADD: Per Section 3.19.11.
Legend 6, ADD: The City of North Las Vegas installs all meters 2" and smaller.

PLATE 4 New Service Installation
Plate 4 is not approved for installation in the City of North Las Vegas service area.

PLATE 6 Dual Residential Service Installation
Plate 6 is not approved for installation in the City of North Las Vegas service area.

PLATE 7 Dual Residential Service Installation
Legend 3, ADD: Per Section 3.19.11.
Legend 6, ADD: The City of North Las Vegas installs all meters 2" and smaller

PLATE 8 Backflow Prevention Assembly
The City of North Las Vegas allows 3/4" backflow assemblies. Plate 8 is for the installation of 3/4" - 2" Backflow prevention assemblies.
ADD: Note No. 5: When installing a Reduced Pressure Principle Backflow Assembly, the relief valve must be installed 12" to 14" above the concrete pad
ADD: Note No 6: Provide and install a backflow preventer security system. Sentry model SG75-200 or approved equal.
Legend 3, ADD: Brass Pipe to be used as risers on the upstream and downstream sides of the backflow assembly only. Type "K" copper to be used from the meter cock to the first 90 (Legend Item No. 2). Type "K" copper to also be used from the downstream 90 (Legend Item No. 2) to 12" past the concrete slab.
Legend 5, ADD: Brass Unions do not need to be installed when installing a flanged backflow assembly.

PLATE 9 Dual Backflow Prevention Assembly
The City of North Las Vegas allows 3/4" backflow assemblies. Plate 8 is for the installation of 3/4" - 2" Dual Backflow prevention assemblies.
ADD: Note No. 5: When installing a Reduced Pressure Principle Backflow Assembly, the relief valve must be installed 12" to 14" above the concrete pad
ADD: Note No. 6: Provide and install a backflow preventer security system. Sentry model SG75-200 or approved equal.
CURRENT NORTH LAS VEGAS ADDENDA

Legend 3, **ADD:** Brass Pipe to be used as risers on the upstream and downstream sides of the backflow assembly only. Type "K" copper to be used from the meter cock to the first 90 (Legend Item No. 2). Type "K" copper to also be used from the downstream 90 (Legend Item No. 2) to 12" past the concrete slab.

Legend 5, **ADD:** Brass Unions do not need to be installed when installing a flanged backflow assembly.

**PLATE 19** Trench Section Backfill Specification Notes  
**ADD** Note No. 10: Refer to the City of North Las Vegas Trench Backfill Policy.

**PLATE 23** Casing Installation  
Note No. 5 **ADD:** Casing to be filled with sand.
ADD Note No. 7: The maximum distance from edge of spacer to inside of casing is one inch (1”)

**PLATE 30** Anchor Block Details  
Note No. 1, **ADD:** Refer to Clark County Interagency Quality Assurance Committee (IQAC) for concrete mix design.

**PLATE 31** Thrust Block Installation  
Note No. 4, **ADD:** Refer to Clark County Interagency Quality Assurance Committee (IQAC) for concrete mix design.
Note No. 7, **ADD:** Refer to section 2.15 of these standards.

**PLATE 34** Excavation for Wet Taps  
Size on size tap is not allowed in the City of North Las Vegas service area.

**PLATE 36** 2" Manual Blowoff Assembly
ADD: Refer to Clark County Interagency Quality Assurance Committee (IQAC) for concrete mix design.
ADD: Note No. 5: Carsonite Marker required in unimproved areas.

**PLATE 37** 6" Manual Blowoff Assembly
ADD: Refer to Clark County Interagency Quality Assurance Committee (IQAC) for concrete mix design.
ADD: Note No. 5: Carsonite Marker required in unimproved areas.

**PLATE 38** Combination Air Valve
ADD: Refer to Clark County Interagency Quality Assurance Committee (IQAC) for concrete mix design.

**PLATE 39** Valve Box Installation and Adjustment
ADD: Refer to Clark County Interagency Quality Assurance Committee (IQAC) for concrete mix design.

**PLATE 40** Fire Hydrant Installation
Note No. 2, **ADD:** No fire hydrant shall be installed within fifteen (15) feet from back of a curb return or driveway within a commercial or industrial area

**PLATE 51** Compound Meter with Bypass and Double Check Valve  
Plate 51 is not approved for installation in the City of North Las Vegas service area.

**PLATE 53** Type I Fire Service Meter  
Plate 53 is not approved for installation in the City of North Las Vegas service area.

**PLATE 55** Type III Fire Service Meter  
Plate 55 is not approved for installation in the City of North Las Vegas service area.

**PLATE 56** Compact Backflow Prevention Assembly
Legend 6, **ADD:** The pad size is to meet full opening requirements of the enclosure. Refer to Clark County Interagency Quality Assurance Committee (IQAC) for concrete mix design.

Legend 7, **ADD:** In conformance with ASSE 1060, Category 2
ADD: Note 8: For RPDA and DCDA, install a meter security system, Abloy Defender or approved equal.

**PLATE 57** Dual Compact Backflow Prevention Assembly
Legend 6, **ADD:** The pad size is to meet full opening requirements of the enclosure. Refer to Clark County Interagency Quality Assurance Committee (IQAC) for concrete mix design.

Legend 7, **ADD:** In conformance with ASSE 1060, Category 2
ADD: Note 8: For RPDA and DCDA, install a meter security system, Abloy Defender or approved equal.
PLATE 58  Dual Conventional Backflow Prevention Assembly  Legend 5, ADD: The pad size is to meet full opening requirements of the enclosure. Refer to Clark County Interagency Quality Assurance Committee (IQAC) for concrete mix design.

Legend 7, ADD: In conformance with ASSE 1060, Category 2

ADD: Note 7: For RPDA and DCDA, install a meter security system, Abloy Defender or approved equal.

PLATE 59  Inline Backflow Prevention Assembly  Legend 3, ADD: The pad size is to meet full opening requirements of the enclosure. Refer to Clark County Interagency Quality Assurance Committee (IQAC) for concrete mix design.

Legend 2, ADD: In conformance with ASSE 1060, Category 2

ADD: Note 5: For RPDA and DCDA, install a meter security system, Abloy Defender or approved equal.