- SYMBOLS -	
&	AND
(R)	RADIAL
(TYP)	TYPICAL

- A -	
A/C	AIR CONDITIONING
AB	ANCHOR BLOCK
ABAN	ABANDON
ABC	AGGREGATE BASE COURSE
ABS	ABSOLUTE
ABUT	ABUTMENT
ABV	ABOVE
AC	ASPHALTIC CONCRETE
ACKV	AUTOMATIC CHECK VALVE
ACP	ASBESTOS CEMENT PIPE
ACS	ACCESS
AD	AREA DRAIN
ADA	AMERICAN DISABILITY ACT
ADDL	ADDITIONAL
ADDM	ADDENDUM
ADJ	ADJUSTABLE
AGGR	AGGREGATE
AHD	AHEAD
AL	ALUMINUM
ALT	ALTERNATE
AMS	ANGLE METER STOP
AMT	AMOUNT
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
ANT	ANTENNA
AP	ACCESS PANEL
APN or A.P.N.	ASSESSOR PARCEL NUMBER
APPROX	APPROXIMATE
APPVD	APPROVED
ASPH	ASPHALT
ASSN	ASSOCIATION
ASSY	ASSEMBLY
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS
AUX	AUXILIARY
AV	AIR VENT/AIR VALVE
AVAR	AIR VACUUM AIR RELEASE VALVE
AVE	AVENUE
AWG	AMERICAN WIRE GAUGE
AWWA	AMERICAN WATER WORKS ASSOCIATION

- B -	
B&S	BELL & SPIGOT
B/H	BUMPED HEAD
BAL	BALANCE
BC	BOLT CIRCLE / BACK OF CURB
BCV	BUTTERFLY CHECK VALVE
BE	BELL END
BETW	BETWEEN
BFP	BACKFLOW PREVENTER
BFV	BUTTERFLY VALVE
BK	BOOK / BACK
BLDG	BUILDING
BL-FLG	BLIND FLANGE
BLK	BLOCK
BLM	BUREAU OF LAND MANAGEMENT
BLVD	BOULEVARD
BM	BENCHMARK
BO	BLOW OFF ASSEMBLY
BOC	BACK OF CURB
BOT	BOTTOM
BOW	BACK OF WALK
BPV	BACK PRESSURE VALVE
BRG	BEARING
BS	BACK SIGHT
BSDW	BUREAU OF SAFE DRINKING WATER
BUR	BURIED
BV	BALL VALVE
BW	BOTH WAYS / BACK OF SIDEWALK

- C -	
C	CONDUIT
C&G	CURB AND GUTTER
C/C	CENTER TO CENTER
CAL	CALIBRATE
CAP	CAPACITY
CAV	COMBINATION AIR VALVE
CB	CATCH BASIN
CCO	CLARK COUNTY
CCWRD	CLARK COUNTY WATER RECLAMATION DISTRICT
CEM	CEMENT
CI	CAST IRON
CIP	CAST IRON PIPE / CAST IN PLACE
CIRCUM	CIRCUMFERENCE
CJP	COMPLETE JOINT PENETRATION
CL or ℄	CENTERLINE
CL2	CHLORINE

- C - (CONTINUED)	
CLG	CEILING
CLO	CLEANOUT
CLP	CLAMP
CLR	CLEAR
CLSM	CONTROLLED LOW STRENGTH MATERIAL
CLV	CITY OF LAS VEGAS
CM	CENTIMETER
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CNLV	CITY OF NORTH LAS VEGAS
CO	COUNTY / COMPANY / CONTRACT
COL	COLUMN
COMB	COMBINATION
COMM	COMMUNICATION
COMPL	COMPLETE
CON	CONCENTRIC
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUE / CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
COR	CORNER
CORP STOP	CORPORATION STOP
COV PL	COVER PLATE
CPLG	COUPLING
CPVC	CHLORINATED POLYVINYL CHLORIDE PIPE
CT	COURT
CTR	CENTER
CTV	CABLE TELEVISION
CU	CUBIC / COPPER
CUST	CUSTOMER
CV	CONTROL VALVE
CW	CLOCKWISE
CY	CUBIC YARD
CYL	CYLINDER

- D -	
D or Δ	DELTA ANGLE
D/W	DRIVEWAY
DCSWCS	DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS
DEC	DECIMETER
DEG or °	DEGREE
DEMO	DEMOLITION
DEPT	DEPARTMENT
DET	DETAIL
DI	DROP INLET / DUCTILE IRON
DIA or Ø	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIP	DUCTILE IRON PIPE
DIR	DIRECTION
DISCH	DISCHARGE
DIST	DISTANCE
DISTR	DISTRIBUTION
DIV	DIVSION
DL	DEADLOAD
DMH	DROP MANHOLE
DN	DOWN
DR	DRIVE
DRW	DRY WELL
DUPL	DUPLICATE
DWG	DRAWING

- E -	
E	EAST OR EDGE
EA	EACH
EC	EPOXY COATED / END OF CURB
ECC	ECCENTRIC
EF	EACH FACE
EL	EPOXY LINED
ELEC	ELECTRICAL
ELEV	ELEVATION
ELL	ELBOW
ENG	ENGINE / ENGINEERING
ENGR	ENGINEER
EOP	EDGE OF PAVEMENT
EOS	EDGE OF SHOULDER
EQ	EQUAL / EQUATION
EQ SP	EQUALLY SPACED
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ESMT	EASEMENT
EST	ESTIMATE
ETC	ETCETERA
EW	EACH WAY
EXC	EXCAVATE
EXIST	EXISTING
EXP JT	EXPANSION JOINT
EXT	EXTENSION

- F -	
F/F	FACE TO FACE
FABR	FABRICATION / FABRICATED
FC	FACE OF CURB
FD	FLOOR DRAIN
FDN	FOUNDATION
FEXT	FIRE EXTINGUISHER
FF	FINISHED FLOOR
FG	FINISHED GRADE
FH	FIRE HYDRANT
FIG	FIGURE
FL	FLOWLINE
FLG	FLANGE
FLR	FLOOR
FMCT	FLOW METER COMPOUND TORRENT
FMH	FLEXIBLE METAL HOSE
FN	FENCE
FND	FOUND
FO	FIBER OPTIC
FOC	FACE OF CURB
FOW	FACE OF WALL
FPC	FLEXIBLE PIPE COUPLING
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FPT	FEMALE PIPE TREAD
FREQ	FREQUENCY
FRP	FIRE RETARDANT POLYESTER RESIN / FIBERGLASS REINFORCED POLYMER
FSTNR	FASTENER
FT or '	FOOT / FEET
FTG	FOOTING
FUT	FUTURE

- G -	
G	GAS
G/B	GRADE BREAK
GA	GAGE
GAL(S)	GALLON(S)
GALV	GALVANIZED
GENL	GENERAL
GIS	GEOGRAPHIC INFORMATION SYSTEM
GND	GROUND
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GRD	GRADE
GRT	GRATE
GV	GATE VALVE

- H -	
H	HOUSE
H&V	HEATING & VENTILATION
HARN	HIGH ACCURACY FREQUENCY NETWORK
HB	HOSE BIB
HD	HEAD
HDR	HEADER
HEX	HEXAGONAL
HMWPE	HIGH MOLECULAR WEIGHT POLYETHYLENE
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPG	HIGH PRESSURE GAS
HPI	HORIZONTAL POINT OF INTERSECTION
HR	HOUR
HT	HEIGHT
HV	HOSE VALVE
HWY	HIGHWAY

- I -	
ID	INSIDE DIAMETER
IN or "	INCH
INST	INSTALL
INSTR	INSTRUMENT
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
IPS	IRON PIPE SIZE
IRR	IRRIGATION

- J -	
JT	JOINT

- K -	
kg	KILOGRAM
km	KILOMETER

- L -	
LAD	LADDER
LB or #	POUND
LDR	LEADER
LEN or L	LENGTH OF CURVATURE
LF	LINEAR FOOT
LG	LONG
LN	LANE
LT	LEFT / LIGHT
LVVWD	LAS VEGAS VALLEY WATER DISTRICT
LWR	LOWER

- M -	
M	METER
MATL	MATERIAL
MAX	MAXIMUM
MC	MORTAR COATED
MEAS	MEASUREMENT
MECH	MECHANICAL
MFR	MANUFACTURER
MG	MILLION GALLONS
MGD	MILLION GALLONS PER DAY
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MKR	MARKER
ML	MORTAR LINED
MLC	MORTAR LINED & COATED
MLCP	MORTAR LINED & COATED PIPE
MLTCP	MORTAR LINED TAPED & COATED PIPE
mm	MILLIMETER
MON	MONUMENT
MOV	MOTOR OPERATED VALVE
MPT	MALE PIPE THREAD
MSD	MAIN SERVICE DISTRIBUTION
MSDS	MATERIAL SAFETY DATA SHEET
MTD	MOUNTED

- N -	
N	NORTH
N/A	NOT APPLICABLE
NaOCL	SODIUM HYPOCHLORITE
NAP	NOT-A-PART
NAVD	NORTH AMERICAN VERTICAL DATUM
NBS	NATIONAL BUREAU OF STANDARDS
NC	NATIONAL COARSE
NCS	NEVADA COORDINATE SYSTEM
NDEP	NEVADA DIVISION OF ENVIRONMENTAL PROTECTION
NDOT	NEVADA DEPARTMENT OF TRANSPORTATION
NE	NORTHEAST
NF	NORTH FACE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NFS	NATIONAL SANITATION FOUNDATION
NG	NATURAL GROUND
NIC	NOT IN CONTRACT
NIP	NOT IN PROJECT
NO. or #	NUMBER
NOM	NOMINAL
NOSHA	NEVADA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
NPS	NOMINAL PIPE SIZE
NPT	NATIONAL TAPER PIPE THREAD
NRS	NEVADA REVISED STATUTES / NON-RISING STEM
NTS	NOT TO SCALE
NVE	NV ENERGY
NW	NORTHWEST

- O -	
O/O	OUT TO OUT
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OFC	OFFICE
OH	OVERHEAD
OHP	OVERHEAD POWER
OHTEL	OVERHEAD TELEPHONE
OPER	OPERATOR
OPNG	OPENING
OPP	OPPOSITE
ORF	ORIFICE
ORIG	ORIGINAL
OS&Y	OUTSIDE SCREW & YOKE
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
OVFL	OVERFLOW
oz	OUNCE

- P -	
P	POLE / PRESSURE / PIPE / POWER
P/R	PATENT RESERVATION
PAT	PATENT
PAVMT	PAVEMENT
PB	PULL BOX
PC	PRESSURE CLASS
PCC	PORTLAND CEMENT CONCRETE
PCCP	PRESTRESSED CONCRETE CYLINDER PIPE
PDL	PUMP DISCHARGE LINE
PE	PLAIN END / POLYETHYLENE PIPE
PED	PEDESTAL
PERM	PERMANENT
PERP	PERPENDICULAR
PG	PRESSURE GAGE
PH	PHASE

- P - (CONTINUED)	
PHYD	POST HYDRANT
PI	POINT OF INTERSECTION
PKG	PACKAGE
PKWY	PARKWAY
PL	PLACE / PLATE / PARCEL LINE
PLS	PROFESSIONAL LAND SURVEYOR
PLT	PLATE (DRAWING)
PO	PUSH-ON
POLY	POLYETHYLENE
PP	POWER POLE
PPM	PARTS PER MILLION
PR	PAIR
PRC	PRECAST REINFORCED CONCRETE
PRELIM	PRELIMINARY
PRIM	PRIMARY
PROP	PROPOSED
PRV	PRESSURE REGULATING VALVE
PS	PRESSURE SWITCH / PUMP STATION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENCY
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE PIPE

- Q -	
QCV	QUICK COUPLER VALVE
QDC	QUICK DISCONNECT COUPLING
QS	QUAD SHEET
QTR	QUARTER
QTY	QUANTITY

- R -	
R	RADIUS
R/W or ROW	RIGHT-OF-WAY
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
REC	RECESSED
RECT	RECTANGULAR
RED	REDUCER
REF	REFERENCE (DIMENSION)
REG	REGULATING (REGULATOR)
REINF	REINFORCED (REBAR)
REQD	REQUIRED
RES	RESIDENTIAL / RESERVOIR
RET	RETURN
REV	REVISION / REVERSE
RF	RAISED FACE
RM	ROOM
RME	RESIDENTIAL MAIN EXTENSION
RPM	REVOLUTIONS PER MINUTE
RPPA	REDUCED PRESSURE PRINCIPLE ASSEMBLY
RPS	REVOLUTIONS PER SECOND
RR	RAILROAD
RSGV	RESILIENT SEATED GATE VALVE
RT	RIGHT / RING TITE
RV	RELIEF VALVE

- S -	
S	SOUTH / SLOPE
S/C	SAW CUT
SA	SAMPLE LINE
SCCP	STEEL CYLINDER CONCRETE PIPE
SCH	SCHEDULE
SD	STORM DRAIN
SDWK	SIDEWALK
SE	SOUTHEAST
SEC	SECTION / SECOND(ARY)
SEG	SEGMENT
SHLDR	SHOULDER
SHT	SHEET
SID	SPECIAL IMPROVEMENT DISTRICT
SIG	SIGNAL
SIM	SIMILAR
SL	SLOPE
SLV	SLEEVE
SNWA	SOUTHERN NEVADA WATER AUTHORITY
SNWS	SOUTHERN NEVADA WATER SYSTEM
SO	STUBOUT
SPC	STATE PLANE COORDINATES
SPEC(S)	SPECIFICATION(S)
SQ	SQUARE
SQ FT	SQUARE FOOT (FEET)
SQ YD	SQUARE YARD
SR	SAMPLE RETURN
SRM	SINGLE RESIDENTIAL MAIN
SS	SANITARY SEWER
SSTL	STAINLESS STEEL
ST	STREET
STA	STATION
STD	STANDARD
STIR	STIRRUP

- S - (CONTINUED)	
STL	STEEL
STLT	STREET LIGHT
SUPPL	SUPPLEMENT
SUR	SURVEY
SV	SOLENOID VALVE
SW	SIDEWALK / SOUTHWEST
SY	SQUARE YARD
SYM	SYMBOL
SYMM	SYMMETRICAL
SYS	SYSTEM

- T -	
t	THICKNESS OF WELD
T	TELEPHONE / TANGENT
T&B	TOP & BOTTOM
T&G	TONGUE AND GROOVE
TAN	TANGENT
TBE	THREAD BOTH ENDS
TBM	TEMPORARY BENCHMARK
TC	TOP OF CURB
TD	TRENCH DRAIN
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPORARY
THK	THICK(NESS)
THR BLK	THRUST BLOCK
THRD	THREADED
TK	TANK
TMH	TOP OF MANHOLE
TOE	THREAD ONE END
TOF	TOP OF FOOTING
TOG	TOGETHER
TOGR	TOP OF GRATE
TOP	TOP OF PIPE
TOR	TOP OF RIM
TOS	TOP OF SLAB
TOSTL	TOP OF STEEL
TOSW	TOP OF SIDEWALK
TOT	TOTAL
TOW	TOP OF WALL
TP	TELEPHONE POLE / TOP OF PIPE
TR	TRAIL / TRACK / TOP OF RIM
TRANS	TRANSITION / TRANSMISSION

- U -	
UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS, CLARK COUNTY, NV
UE	UNDERGROUND ELECTRIC
UFC	UNIFORM FIRE CODE
UG	UNDERGROUND
UGC	UNDERGROUND CONDUIT
UGP	UNDERGROUND POWER
UGT	UNDERGROUND TELEPHONE
UL	UNDERWRITERS LABORATORIES
UNC	AMERICAN STANDARD UNIFIED COARSE THREAD
UNF	AMERICAN STANDARD UNIFIED FINE THREAD
UNIV	UNIVERSAL
UNO	UNLESS NOTED OTHERWISE
UPC	UNIFORM PLUMBING CODE
UPRR	UNION PACIFIC RAILROAD
USD	UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NV
USGS	UNITED STATES GEODETIC SURVEY
USS	UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NV
UTIL	UTILITIES

- V -	
V	VOLT / VALVE
VAC	VACUUM
VAR	VARIES
VB	VALVE BOX
VCP	VITRIFIED CLAY PIPE
VEL	VELOCITY
VENT	VENTILATOR
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VG	VALLEY GUTTER
VHF	VERY HIGH FREQUENCY
VIB	VIBRATION
VIN	VINYL
VISC	VISCOSITY
VOL	VOLUME
VPI	VERTICAL POINT OF INTERSECTION
VS	VALVE SHEET
VT	VENT

- W -	
W	WEST / WATER
W/	WITH
W/O	WITHOUT
WD	WIDTH

- W - (CONTINUED)	
WDN	WASTE DRAIN
WF	WIDE FLANGE
WH	WALL HYDRANT
WI	WROUGHT IRON
WL	WASTE LINE
WLD	WELDED
WM	WATER METER
WP	WORK POINT / WEATHER PROOF
WS	WATER SURFACE
WSP	WELDED STEEL PIPE
WSTP	WATER STOP
WT	WEIGHT
WTR	WATER
WV	WATER VALVE
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH

- X -	
XARM	CROSS ARM
XFMR	TRANSFORMER
XFR	TRANSFER
XSEC	CROSS SECTION

- Y -	
YD	YARD
YH	YARD HYDRANT
YLD	YIELD

DESIGNER NOTE: (TO BE DELETED)
THIS IS A STANDARD ABBREVIATION SHEET. SOME ABBREVIATIONS MAY APPEAR ON THIS SHEET BUT NOT USED IN THE PLANS. ALL ABBREVIATIONS USED ON THE PLANS MUST APPEAR ON THIS SHEET.

CLV DWG #

REVISIONS:

LAS VEGAS VALLEY WATER DISTRICT

VERIFY SCALE
1/2 0 1/2 1
BAR REPRESENTS ONE AND ONE-HALF INCHES ON ORIGINAL

SCALE HORIZ: AS SCALE 1"= XX' VERT: SCALE 1"= XX'

XXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXX

LAS VEGAS VALLEY WATER DISTRICT
1001 S. VALLEY VIEW BLVD, LAS VEGAS, NV 89153

DRAWN BY:

CHECKED BY:

PROJECT: XXXXX
COMMIT: XXXX

DRAWING/NUMBER
XXXXXX

SHEET XX OF XXX