





**CITY OF LAS VEGAS FIRE DEPARTMENT NOTES**

- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LAS VEGAS FIRE AND RESCUE ADOPTED FIRE CODE ORDINANCE #6325 FOR HYDRANT SPECIFICATIONS AND HYDRANT INSTALLATION SPECIFICATIONS.
- ONLY FIRE HYDRANTS THAT ARE ON THE LAS VEGAS VALLEY WATER DISTRICT'S APPROVED PRODUCTS LIST ARE ALLOWED TO BE INSTALLED.
- A PERMIT IS REQUIRED FROM LAS VEGAS FIRE AND RESCUE FOR THE INSTALLATION OF ON-SITE WATER LINES AND FIRE HYDRANTS. THE PERMIT AND CONTRACTORS MATERIAL TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER BEFORE COMMENCEMENT OF WORK. [IFC § 105.7.12]
- ON ANY RESIDENTIAL OR COMMERCIAL INSTALLATIONS, FIRE HYDRANTS SHALL BE INSTALLED AND FIRE APPARATUS ACCESS ROADS SHALL BE MAINTAINED BEFORE COMMENCEMENT OF ANY COMBUSTIBLE CONSTRUCTION. ALL FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER AND SHALL BE CAPABLE OF DELIVERING THE REQUIRED FIRE FLOW. [IFC § 3310, § 3312]
- TO IDENTIFY THE FIRE HYDRANT LOCATIONS, THE CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT THE CENTER LINE OF THE STREET ADJACENT TO THE FIRE HYDRANTS. [IFC § 507.5.7.3]
- ALL UNDERGROUND INSPECTIONS PRESSURE AND FLUSH VERIFICATIONS OF ALL FIRE HYDRANTS AND FIRE LINES, SHALL BE CONDUCTED BEFORE COVERING THE LINES. CENTER LOADING IS ACCEPTABLE FOR THE HYDRO TESTS WITH PRIOR FIRE PREVENTION APPROVAL. [IFC § 106.3]
- ALL ON-SITE UNDERGROUND WATER MAINS AND MATERIALS SHALL BE U.L. LISTED, A.W.W.A APPROVED AND SHALL BE RATED FOR THE APPROPRIATE WORKING PRESSURE. [IFC § 507.2.1, NFPA 24]
- PAINTING OF CURBS, FIRE HYDRANTS, PADS, PROTECTION OF FIRE HYDRANTS FROM PHYSICAL DAMAGE, AND ALL OTHER WORK NECESSARY PER PLANS SHALL BE COMPLETED BEFORE APPROVAL BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION. [IFC § 507]
- PRIVATE HYDRANTS SHALL BE PAINTED RED. [IFC § 507.5.7.1]
- PRIOR TO THE FINAL OCCUPANCY, A FIRE FLOW TEST SHALL BE WITNESSED BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION TO VERIFY AVAILABILITY OF THE REQUIRED FIRE FLOW. [IFC § 507]
- FIRE HYDRANT SPACING SHALL BE AS FOLLOWS: [IFC § C102]
  - RESIDENTIAL - 500 FT UNSPRINKLERED; 600 FT SPRINKLERED.
  - COMMERCIAL - 300 FT UNSPRINKLERED; 400 FT SPRINKLERED.
- WHERE THE WATER MAINS ARE EXTENDED ALONG STREETS OR NEW STREETS ARE INSTALLED WHERE FIRE HYDRANTS ARE NOT NEEDED FOR PROTECTION OF THE STRUCTURES, FIRE HYDRANTS SHALL BE INSTALLED AT A MAXIMUM OF 1000 FT SPACING, TO PROVIDE FOR TRANSPORTATION HAZARDS, WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS OR HAVE FOUR (4) OR MORE TRAFFIC LANES AND HAVE A TRAFFIC COUNT OF MORE THAN 30,000 PER DAY, HYDRANTS ARE REQUIRED ON EACH SIDE OF THE STREET SPACED AT 500 FT ON AN ALTERNATING BASIS. [IFC § C102.8]
- NO FIRE HYDRANTS SHALL BE LOCATED WITHIN THE RADIUS OF A CUL-DE-SAC OR WITHIN 20 FT OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
- NO FIRE HYDRANTS SHALL BE LOCATED WITHIN 6 FT OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREETLIGHT OR ANY OTHER OBSTRUCTION. [IFC § C102.12]
- A MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A ONE-TWO FAMILY DWELLING SHALL NOT EXCEED 300 FT, AS MEASURED BY AN APPROVED ROUTE. [IFC § C102.4]
- THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A FIRE DEPARTMENT CONNECTION (FDC) SHALL NOT EXCEED 100 FT, AS MEASURED BY AN APPROVED ROUTE. [IFC § C102.7]
- THE MAXIMUM DISTANCE FROM A HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FT. [IFC § C102.6]
- TWO (2) SOURCES OF SUPPLY ARE REQUIRED WHENEVER THERE IS 4 OR MORE FIRE HYDRANTS/SPRINKLER LEAD-INS ARE INSTALLED ON A SINGLE SYSTEM. SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 2 FIRE HYDRANTS CAN BE OUT OF SERVICE DUE TO A BREAK IN A WATER MAIN. [IFC § C104]
- ALL FIRE APPARATUS ACCESS ROADS SHALL BE PAVED TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES, AND SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF THE FIRE APPARATUS. [IFC § 503.2.3]
- THE GRADIENT FOR THE FIRE APPARATUS ACCESS ROADS SHALL NOT EXCEED 12% ANGLES OF APPROACH AND ANGLES OF DEPARTURE SHALL NOT EXCEED 6% FOR 25 FT PRIOR TO OR AFTER THE GRADE CHANGE, ADJACENT TO THE STRUCTURES GRADIENT SHALL NOT EXCEED 6%. [IFC § 503.2.7, § 503.2.8]
- THE TURNING RADIUS OF THE FIRE APPARATUS ACCESS ROADS SHALL BE NO LESS THAN 52 FT OUTSIDE AND 28 FT INSIDE TURNING RADIUS. [IFC § 503.2.4]
- VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL NOT BE LESS THAN 13FT 6 INS. [IFC § 503.2.1]
- FIRE DEPARTMENT ACCESS ROADS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 40 FT FLOW LINE TO FLOW LINE WITH PARALLEL PARKING PERMITTED ON BOTH SIDES, NOT LESS THAN 32 FT WIDE, FLOW-LINE TO FLOW-LINE, WHERE PARKING IS PERMITTED ONLY ON ONE SIDE OF THE FIRE APPARATUS ACCESS ROAD, NOT LESS THAN 24 FT WIDE, FLOW-LINE TO FLOW-LINE, WHERE NO PARKING IS PERMITTED ON EITHER SIDE. FIRE LANES THROUGH PARKING LOTS SHALL BE NOT LESS THAN 24 FT. [IFC § 503.2.1.1]
- A FIRE APPARATUS ACCESS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN 150 FT FROM A FIRE DEPARTMENT VEHICLE ACCESS. THIS DISTANCE COULD BE INCREASED TO 250 FT IF THE BUILDING IS SPRINKLERED. [IFC § 503.1.1]
- APPROVED SECONDARY FIRE APPARATUS ACCESS SHALL BE PROVIDED FOR 100 OR MORE DWELLING UNITS, ROAD(S) WITH DEAD-ENDS OR WITH A SINGLE POINT OF ACCESS IN EXCESS OF 600 FT. COMMERCIAL AND INDUSTRIAL DEVELOPMENTS WHERE BUILDINGS EXCEED 2 STORIES OR 30 FEET IN HEIGHT, OR EXCEEDING 62,000 SQUARE FEET IN AREA. [IFC § 503.1.2]
- ALL DEAD-END FIRE APPARATUS ROADS AND/OR FIRE LANES, PUBLIC OR PRIVATE, IN EXCESS OF 150 FT IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN AROUND HAVING A MINIMUM DIAMETER OF 81 FT. [IFC § 503.2.5]
- ALL FIRE APPARATUS ACCESS ROADS SHALL BE MARKED BY PLACING APPROVED SIGNS AT THE START OF THE DESIGNATED FIRE LANE, ONE SIGN AT THE END OF THE FIRE LANE AND WITH SIGNS AT INTERVALS OF 100 FT ALONG THE DESIGNATED FIRE LANES. SIGNS TO BE PLACED ON BOTH SIDES OF AN ACCESS ROADWAY IF NEEDED TO PREVENT PARKING ON EITHER SIDE. SIGNS TO BE INSTALLED NO HIGHER THAN 10 FT OR LESS THAN 6 FT FROM THE ROADWAY LEVEL. THE CURB ALONG OR ON THE PAVEMENT OR CEMENT (IF NO CURB IS PROVIDED) SHALL BE PAINTED WITH A RED WEATHER RESISTANT PAINT IN ADDITION TO THE SIGNS. [IFC § 503.3]
- ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER SYSTEM. SAD SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE IFC § 503.6 AND IFC APPENDIX M.

**DEVIATIONS FROM STANDARDS**

NONE

**CITY OF LAS VEGAS GENERAL NOTES**

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA," LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA," LATEST REVISED EDITION; THE "SUMMERLIN IMPROVEMENTS STANDARDS" FOR WORK IN THE SUMMERLIN AREA; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; THE UNIFORM BUILDING CODE; AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AS "DEVIATIONS FROM STANDARDS."
  - THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES AS SHOWN FROM CLV PLANS LIBRARY ARE APPROXIMATE AND FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCE'S WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.
  - THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES AND STREET IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER AND OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.
  - ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
  - TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM @ 28 DAYS. MIX DESIGNS TO BE APPROVED BY THE CITY, PRIOR TO THE USE ON THE PROJECT.
  - PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
  - EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED-TYPE CURB.
  - AC PAVEMENT TO BE ONE-HALF INCH (1/2") ABOVE LIP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS AND CROSS GUTTERS.
  - CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY OF LAS VEGAS SHALL BE REMOVED AND REPLACED PER STANDARD DRAWING 216.
  - SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.
  - CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF TRANSITIONS TO BE AS SHOWN ON PLANS.  
  
ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY THE SOILS ENGINEER APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.  
  
EXACT LOCATION OF ALL SAWCUT LINES MAY BE ADJUSTED OR DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS ENGINEER IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATION.  
  
THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH N.R.S. NO. 625.550 AND CITY OF LAS VEGAS TITLE 18, APPENDIX D.  
  
UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC., SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOWLINES, AND CROSS GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE UTILITY COMPANY AND THE CITY ENGINEER.  
  
WALL NOTES:  
  
ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN ON CIVIL PLANS FOR THE PURPOSE OF REVIEWING GRADING RELATIONSHIPS; FLOOD CONTROL AND SIGHT DISTANCE AT INTERSECTIONS. NEW WALLS REQUIRE A SEPARATE PERMIT AND INSPECTION BY THE BUILDING DEPARTMENT.  
  
ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHT OF WAY.  
  
CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING INLETS, VALVE BOXES, MANHOLE RIMS, AND SEWER CLEAN OUTS, ETC. TO FINISH GRADE AS APPLICABLE WHETHER OR NOT THEY ARE SHOWN ON THE PLANS.  
  
MATERIALS, HANDLING AND PLACEMENT OF PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF NDOT OR THE CLARK COUNTY AREA SPECIFICATIONS (AS APPLICABLE) AND THE PLANS AND DETAILS SHOWN HEREON.  
  
WHEN INSTALLING UNDERGROUND FACILITIES THAT REQUIRE UNDERGROUND LOCATING DEVICES SUCH AS MARKER BALLS, LOCATING RIBBON, ETC. THE CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO OFFSITE INSPECTION AND TESTING CERTIFYING THAT ALL DEVICES HAVE BEEN PLACED AND VERIFIED TO BE IN GOOD WORKING CONDITION PRIOR TO THE CONSTRUCTION OF ANY ROAD BASE.  
  
SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S) SHALL BE PROVIDED TO THE CITY AND APPROVED PRIOR TO ACCEPTANCE OF FACILITY VIDEO INSPECTION. THE MAP(S) SHALL INCLUDE THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES AND TRANSITION STRUCTURES, STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN AND AT THE CONNECTION TO A DROP INLET, THE CONNECTION OF SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXITS THE PUBLIC RIGHT-OF-WAY, AND STORM DRAIN MAIN ALIGNMENT, INCLUDING DEFLECTION POINTS. THE LOCATION SHALL BE DESCRIBED COORDINATES WHICH SHALL BE BASED ON THE OFFICIAL HORIZONTAL AND VERTICAL CONTROL NETWORKS FOR THE CITY OF LAS VEGAS. FINAL LOCATION MAPS MUST BE SEALED AND CERTIFIED BY A NEVADA PROFESSIONAL LAND SURVEYOR TO HAVE POSITIONAL CERTAINTIES OF +/- 0.09 METER (+/- 0.3 FEET) HORIZONTALLY AND VERTICALLY. A SEPARATE ELECTRONIC COMMA DELIMITED FILE FOR THE SANITARY SEWER AND STORM DRAIN COORDINATES SHALL ALSO ACCOMPANY THE SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S).
- CCTV VIDEO INSPECTION IS REQUIRED FOR ALL SEWER AND STORM DRAINS. THE CCTV VIDEO INSPECTIONS NEED TO BE PERFORMED PER THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS LATEST ADDITION.
- A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

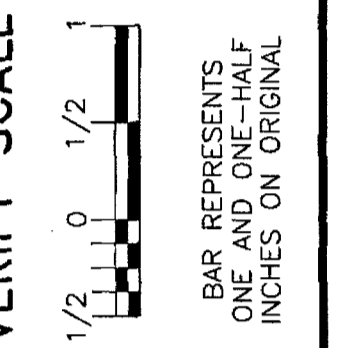
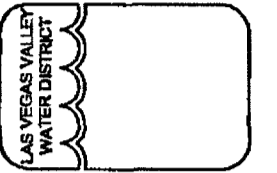
**CITY OF LAS VEGAS SEWER NOTES**

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATIONS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS. ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CITY ENGINEER.
- CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
- POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II AGGREGATE BASE.
- ALL MANHOLES PAVED IN STREETS EIGHTY (80') FOOT R/W AND LARGER SHALL HAVE CONCRETE COLLARS. STREETS LESS THAN EIGHTY (80') FOOT R/W WILL REQUIRE RETROFIT IF PAVING DOES NOT CONFORM TO CITY STANDARDS AT THE MANHOLE.
- TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO TWELVE INCH (12") DIAMETER. CONNECTIONS TO FIFTEEN INCH (15") OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES. IN LINE "Y'S" SHALL BE USED ON LINES TWELVE INCHES (12") OR ABOVE.
- WATER MAINS SHALL BE PROTECTED IN ACCORDANCE WITH LVWD STANDARDS WHENEVER A SEWER MAIN CROSSES OVER A WATER MAIN OR THE SEWER IS LESS THAN EIGHTEEN INCHES (18") UNDER A WATER MAIN.
- ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CITY OF LAS VEGAS MUST BE STATE OF NEVADA CLASS "A" CONTRACTORS.
- THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE TENTH (0.1) OF A FOOT FROM THE APPROVED CONSTRUCTION PLANS AT ANY LOCATION. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED OR REPLACED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY OF LAS VEGAS.
- INSTALLATION OF CURVED SEWER REQUIRES THE USE OF C-900 PVC PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.

**CITY OF LAS VEGAS GRADING NOTES**

- IN THE EVENT THAT ANY UNFORESEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING GRADING OPERATIONS, THE OWNER/ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTION.
  - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND THE RELATED OFF-SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SHOWN.
  - CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL EXCAVATION. ADEQUATE SHORING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR CAVING OF THE EXCAVATION.
  - THE CONTRACTOR IS WARNED THAT AN EARTHWORK BALANCE IS NOT NECESSARILY THE INTENT OF THIS PROJECT. ANY ADDITIONAL MATERIAL REQUIRED OR LEFTOVER MATERIAL FOLLOWING EARTHWORK OPERATIONS BECOMES THE RESPONSIBILITY OF THE CONTRACTOR.
  - THE GRADING CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE OWNER TO PROVIDE FOR THE REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ASSOCIATED PERMIT.
  - CONTRACTOR SHALL GRADE TO THE LINES AND ELEVATIONS SHOWN ON THE PLANS WITHIN THE FOLLOWING HORIZONTAL AND VERTICAL TOLERANCES AND DEGREES OF COMPACTION, IN THE AREAS INDICATED:
- |                           | HORIZONTAL | VERTICAL       | COMPACTION       |
|---------------------------|------------|----------------|------------------|
| A. PAVEMENT AREA SUBGRADE | 0.1'+      | +0.0' to -0.1' | SEE SOILS REPORT |
| B. ENGINEERED FILL        | 0.5'+      | +0.1' to -0.1' | SEE SOILS REPORT |
- COMPACTION TESTING WILL BE PERFORMED BY THE OWNER OR HIS REPRESENTATIVE.
- ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.
  - THE USE OF POTABLE WATER WITHOUT A SPECIAL PERMIT FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION OF BACKFILL OR DUST CONTROL IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER.
  - THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.
  - IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DRAWINGS, THE OWNER AGREES TO PROVIDE AND INSTALL SUCH ITEM AT HIS OWN EXPENSE AND AT THE DIRECTION OF THE CITY ENGINEER. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.

**LAS VEGAS VALLEY WATER DISTRICT**  
1001 S. VALLEY VIEW BOULEVARD  
LAS VEGAS, NEVADA 89145  
(702) 876-2011



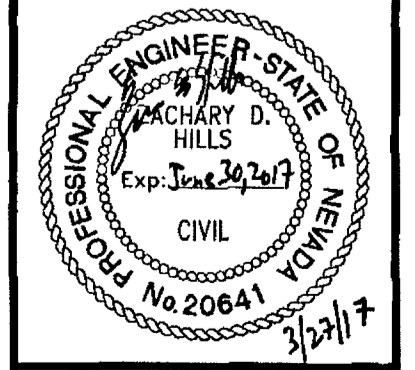
**MISCELLANEOUS SMALL BACKFLOW INSTALLATIONS, PHASE XV**

**CITY OF LAS VEGAS GENERAL NOTES I**

SCALE: NONE

DRAWN BY: STEPHEN D. MILLER  
CHECKED BY: ZACHARY D. HILLS  
RECOMMENDED BY: CHRISTOPHER M. LUQUETTE  
ACCEPTED BY: RYAN C. PEARSON

DATE: 9/19/16  
DATE: 9/19/16  
DATE: \_\_\_\_\_  
DATE: \_\_\_\_\_



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CONTRACT NUMBER  
**C1467**  
DRAWING NUMBER G3  
SHEET 3 OF 14

REVISIONS:

DEVIATIONS FROM STANDARDS

NONE

CITY OF LAS VEGAS TRAFFIC SIGNAL NOTES

- 1. ALL WORK PERFORMED ON ANY TRAFFIC SIGNAL COMPONENT MUST BE UNDER THE DIRECT ON-SITE SUPERVISION OF AN IMSA CERTIFIED TECHNICIAN. EFFECTIVE MARCH 30, 2000 THE LEVEL OF CERTIFICATION REQUIRED IS LEVEL I, AND THE LEVEL OF CERTIFICATION REQUIRED SHALL BE INCREASED TO LEVEL II EFFECTIVE MARCH 30, 2001.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ALL EXISTING UTILITIES. THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES TO VERIFY IN THE FIELD THE LOCATIONS OF THEIR INSTALLATIONS 72 HOURS PRIOR TO CONSTRUCTION.
3. ALL TRAFFIC SIGNAL INSTALLATIONS SHALL CONFORM TO THE UNIFORM STANDARD DRAWINGS SPECIFICATIONS AND SPECIAL PROVISIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, VOLUMES I AND II, ADOPTED BY THE REGIONAL TRANSPORTATION COMMISSION APRIL 8, 1992 WITH ALL SUBSEQUENT REVISIONS. (REVISIONS THRU MAY 11, 2000)
4. SERVICE SHALL HAVE 1-60 AMP SINGLE POLE BREAKER FOR SIGNAL, AND ONE 40 AMP SINGLE POLE BREAKERS FOR STREET LIGHTS. SERVICE SHALL BE 200 AMP PADMOUNT.
5. LINE SIDE OF METER TO BE WIRED WITH THREE #3/0 AWG THW. LOAD SIDE SHALL BE WIRED WITH FOUR #4 AWG THW (2 BLACK, 2 WHITE) AND ONE #8 AWG THW (GREEN).
6. LUMINAIRES ON ALL SIGNAL POLES SHALL BE 400 WATT HIGH PRESSURE SODIUM CUTOFF (G.E. M400A) WITH MC-111 DISTRIBUTION. EACH LUMINAIRE SHALL HAVE AN INDIVIDUAL 1000 WATT P.E. CONTROL. FOR LUMINAIRES THERE SHALL BE 2(TWO)-#4 AWG THW CONDUCTOR FROM THE SERVICE TO THE CABINET. IN THE CABINET, THE #4 AWG THW CONDUCTORS SHALL BRANCH OFF INTO #10 AWG THW CONDUCTORS INDIVIDUALLY FUSED WITH 10 AMP FUSES. THERE SHALL BE NO SPLICES BETWEEN THE CABINET AND LUMINAIRE FIXTURES.
7. THE INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL BE WIRED TO THE LUMINAIRES PHOTO CELL FOR CONTROL WITH #10 AWG THW COPPER STRANDED WIRE (TYPICAL). IN THE EVENT THERE IS NO LUMINAIRE ON THE TRAFFIC SIGNAL POLE, THE 1000 WATT P.E. CONTROL SHALL BE MOUNTED ON THE POLE CAP.
8. CHECK CONDUIT AND CABLE SCHEDULE FOR CONDUIT, CABLE, AND WIRE SIZE. VERIFY ALL EXISTING CONDUIT RUNS.
9. ALL PULLBOXES SHALL BE IN ACCORDANCE WITH UNIFORM STANDARD DRAWINGS NO. 404.110, NO. 404.120, AND NO. 404.130.
10. TRAFFIC SIGNAL CABLE SHALL BE 15 OR 25 CONDUCTOR #14 AWG SOLID (TYPICAL) CABLE AND SHALL CONFORM TO IMSA SPEC. NO. 20-1.
11. PEDESTRIAN PUSH BUTTONS SHALL BE AUDIBLE TACTILE TYPE IN ACCORDANCE WITH CITY OF LAS VEGAS SPECIAL PROVISIONS TO SECTION 623 OF THE CCA USS. PUSH BUTTON SIGNS SHALL BE 9" X 12" WITH FULL MOUNTING BRACKETS. ALL PUSH BUTTONS TO BE MOUNTED 36" ABOVE SIDEWALK. THE MAXIMUM HORIZONTAL REACH DISTANCE IS TO BE 24". SIDEWALK RAMP WILL BE ACCORDING TO U.S.D. No. 235 (1-4) DATED 12-14-00.
12. THE ROUTING AND TERMINATION OF CONDUITS AND THE PLACING OF POLES AND CABINETS SHALL BE AS INDICATED ON THE PLANS. ALL CHANGES SHALL BE APPROVED BY THE ENGINEER.
13. MAST ARM R10-12 SIGNS TO BE ADJACENT (NO GAP) TO THE M-5 SIGNAL HEAD.
14. INSTALL TYPE VIII CABINET. THIS IS COMMONLY REFERRED TO AS AN "R" CABINET. THE CABINET SHALL CONFORM TO THE UNIFORM STANDARD DRAWINGS SPECIFICATIONS AND SPECIAL PROVISIONS, CLARK COUNTY AREA, NEVADA. INSTALL CABINET NEAR THE R.O.W. LINE OR AS SHOWN ON THE DRAWINGS.
15. THE CONTRACTOR SHALL SUPPLY A 2070N CONTROLLER TO THE CITY OF LAS VEGAS TRAFFIC SIGNAL REPAIR SHOP, FOURTEEN DAYS PRIOR TO SIGNAL TURN-ON, FOR TESTING PURPOSES. THE CONTRACTOR SHALL DELIVER THE CONTROLLER TO, AND PICKUP THE CONTROLLER AT 2801 E. CHARLESTON BOULEVARD. CONTRACTOR SHALL NOTIFY THE TRAFFIC SIGNAL REPAIR SHOP (229-6075) SEVEN DAYS PRIOR TO PICK UP. ALL 2070N CONTROLLERS MUST BE COMPATIBLE WITH AND FUNCTION PROPERLY WITH OS9 1996 OPERATION SYSTEM; THE LATEST REVISION OF THE "NEXT PHASE INTERSECTION MANAGEMENT SOFTWARE" (GARDNER TRANSPORTATION SYSTEM) AND THE ICONS (GARDNER TRANSPORTATION SYSTEM) GENERAL SOFTWARE.
16. CONTRACTOR SHALL POTHOLE SIGNAL POLE LOCATIONS PRIOR TO ORDERING OF POLES.
17. ALL MAST ARMS TO BE HOT-DIP GALVANIZED BY THE MANUFACTURER. THE MAST ARM IS TO BE FABRICATED WITH END TENON ONLY. THE END TENON SHALL BE FACTORY INSTALLED AND THE REMAINING TENONS SHALL BE FABRICATED IN THE FIELD AT THE LOCATION SHOWN ON THE PLANS OR AS DIRECTED BY THE TRAFFIC ENGINEER AND/OR HIS AUTHORIZED REPRESENTATIVE. FOR TENON FABRICATION DETAILS SEE CLARK COUNTY AREA U.S.D. NO. 404.406 SHEET 2. ALL WELDING SHALL CONFORM TO AWS D 2.0, "SPECIFICATION FOR WELDED HIGHWAYS AND RAILWAY BRIDGES," AND TO ANY ADDITIONAL REQUIREMENTS OF SECTION 623 T.02.09 OF THE SPECIFICATIONS. ALL EXPOSED WELDS, SHALL BE PAINTED AS PROVIDED FOR REPAIRING DAMAGED GALVANIZED SURFACES.
18. ALL VEHICLE AND PEDESTRIAN SIGNAL INDICATIONS SHALL HAVE LIGHT EMITTING DIODE (LED) TYPE INDICATIONS, IN CONFORMANCE TO CITY OF LAS VEGAS SPECIAL PROVISIONS TO SECTION 623 OF THE CCA USS.
19. ALL VEHICLE DETECTION WILL BE BY VIDEO IMAGE DETECTION. EITHER ITERIS VANTAGE PLUS OR AUTO SCOPE 2004 VIDEO DETECTION SYSTEM MUST BE INSTALLED. EACH VIDEO CAMERA WILL HAVE POWER (3/16 COND. PVC JACKETED) AND 8281 COAXIAL CABLE DIRECTLY FROM THE CABINET. CAMERAS WILL BE MOUNTED PER THE MANUFACTURER'S RECOMMENDATIONS AND PER CLV TRAFFIC ENGINEER APPROVAL. "BNC" CONNECTORS ARE THE ONLY ACCEPTABLE TERMINATION OF CABLES.
20. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY CONSTRUCTION, TEMPORARY REMOVAL, OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED AT THE CONTRACTORS EXPENSE TO THE SATISFACTION OF THE CITY.
21. INTERCONNECT CABLE SHALL BE 25 PAIR OF #22 AWG SHIELD SPECIFICATION REA PE 39.
22. THE CONTRACTOR SHALL INSTALL CROSSWALKS, STOP BARS AND SIGNS AS IDENTIFIED ON THE PLANS.

REGIONAL TRANSPORTATION COMMITTEE CITIZENS AREA TRANSIT ACCESS NOTES

- 1. UNLESS OTHERWISE SPECIFIED IN THE SPECIAL PROVISIONS, NO PUBLIC BUS OR TRANSIT STOP SHALL BE TEMPORARILY CLOSED WITHOUT THE WRITTEN CONSENT OF THE REGIONAL TRANSPORTATION COMMISSION (RTC) DIRECTOR OR HIS DESIGNEE. THE RTC SHALL BE NOTIFIED AT LEAST TEN (10) WORKING DAYS PRIOR TO THE PROPOSED TEMPORARY CLOSURE OF ANY BUS OR TRANSIT STOP, INCLUDING THOSE LISTED IN THE SPECIAL PROVISIONS.
2. NO BUS STOPS AT TRANSFER POINTS SHALL BE CLOSED DURING CONSTRUCTION. BUS STOPS AT TRANSFER POINTS CAN, HOWEVER, BE TEMPORARILY RELOCATED WITH THE APPROVAL OF THE RTC DIRECTOR OR HIS DESIGNEE.
3. IF BUS OR TRANSIT STOP IS TEMPORARILY RELOCATED, THE EXISTING BUS OR TRANSIT STOP SIGN PANELS SHALL BE RELOCATED TO TEMPORARY BUS OR TRANSIT STOPS AND SHALL REMAIN UNTIL TEMPORARY SIGN IS REMOVED. TEMPORARY RELOCATION OF SIGN PANELS SHALL CONFORM TO SUBSECTION 627.03.05, "RELOCATION."
4. THE CONTRACTOR SHALL MAINTAIN ACCESS WHICH IS IN CONFORMANCE TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT TO AND FROM BUS OR TRANSIT STOPS WHICH REMAIN OPEN AT ALL TIMES DURING CONSTRUCTION.

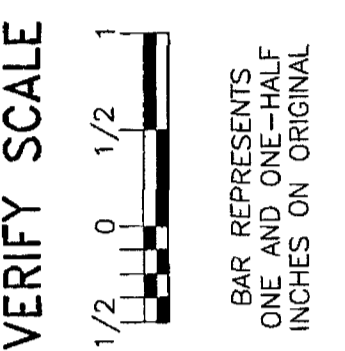
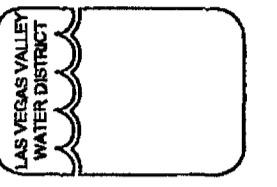
CITY OF LAS VEGAS TRAFFIC NOTES

- 1. ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.
2. THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE PLANNING DEPARTMENT PRIOR TO CONSTRUCTION.
3. BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING CITY STREETS WHERE WARRANTED IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.
4. WHEN A DESIGNATED "SAFE ROUTE TO SCHOOL" IS ENCLOSED UPON BY A CONSTRUCTION WORK ZONE AND PUBLIC WORKS STAFF IDENTIFIES A NEED FOR STUDENTS TO BE ASSISTED IN THE SAFE CROSSING THROUGH THAT WORK ZONE, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A QUALIFIED "CROSSING GUARD". THE GUARD SHALL BE PRESENT FOR THE FULL DURATION OF TIME THAT CHILDREN ARE LIKELY TO BE PRESENT.
5. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE CITY TRAFFIC ENGINEER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. ALL NEW TRAFFIC SIGNS SHALL BE FABRICATED WITH DIAMOND GRADE VIP CLASS 6 REFLECTIVE SHEETING OR APPROVED EQUAL. ALL NEW TRAFFIC SIGNS, EXCEPT STREET NAME AND SCHOOL SPEED LIMIT SIGNS, SHALL HAVE 3M SERIES 1160 ANTI-GRAFFITI PROTECTIVE OVERLAY FILM; SCHOOL ZONE SIGNS SHALL HAVE 3M SERIES 1150 ANTI-GRAFFITI PROTECTIVE OVERLAY FILM. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CURRENT CITY STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT CITY STANDARDS.
7. WHEN A PROPOSED STREET LIGHT STANDARD IS LOCATED WITHIN FIVE (5') FEET OF ANY PROPOSED SIGN SHOWN ON THE PLANS TO BE MOUNTED ON A SIGNPOST, THE SIGN SHALL BE MOUNTED ON THE STREET LIGHT STANDARD AND THE SIGNPOST SHALL BE ELIMINATED.
8. ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HERE UNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.
9. STREET SIGNS AND STOPS SIGNS SHALL BE INSTALLED PER CITY STANDARD SPECIFICATIONS FOR PLACEMENT OF STREET NAME SIGNS.
10. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES AND FLAGGERS TO INSURE THE SAFETY OF THE PUBLIC IN OR AROUND THE WORK AREA. THE CONTRACTOR SHALL HAVE A CERTIFIED ATSSA TRAFFIC CONTROL TECHNICIAN OR IMSA WORK ZONE SAFETY SPECIALIST SET UP, MAINTAIN AND/OR REMOVE ALL TRAFFIC CONTROL DEVICES IN THE CITY OF LAS VEGAS RIGHT OF WAY.
11. WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE EXPEDITED TO COMPLETION SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING CITIZENS AREA TRANSIT (C.A.T.) IF THE CONSTRUCTION INTERRUPTS OR RELOCATES A BUS STOP OR HAS AN ADVERSE EFFECT ON BUS SERVICE ON THAT STREET TO ARRANGE FOR TEMPORARY RELOCATION OF STOP.
13. GUARDS SHALL BE OBTAINED BY CONTACTING THE METROPOLITAN POLICE DEPARTMENT SPECIAL EVENTS UNIT (PHONE # 229-3442) WHO WILL PROVIDE OFFICERS PROPERLY TRAINED IN TRAFFIC CONTROL. FEES FOR THE USE OF THESE OFFICERS SHALL BE SET BY METRO AND WILL BE PAID BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL ARRANGEMENTS WITH METRO.
14. ANY WORK WITHIN 300' OF A SIGNALIZED INTERSECTION WILL BE NIGHT WORK, UNLESS DIRECTED BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER.
15. CONTRACTOR SHALL CONTACT THE TRAFFIC ENGINEERING DIVISION (TRANSPORTATION SECTION) THROUGH THE PROJECT'S OFFSITE INSPECTOR PRIOR TO INITIATING PAVING TO RECEIVE DIRECTION FOR ANY PERMANENT OR TEMPORARY MODIFICATIONS TO THE APPROVED DRAWINGS REGARDING FINAL PAVEMENT TRANSITIONS, MARKINGS AND SIGNING THAT ARE REQUIRED TO MATCH ADJACENT ROADWAY SEGMENTS. THE CONTRACTOR SHALL PROVIDE A DRAWING FOR APPROVAL BY THE TRAFFIC ENGINEERING DIVISION DEPICTING ANY ADJUSTMENTS TO THE FINAL PAVEMENT MARKINGS AND SIGNAGE, WHICH MAY INCLUDE OMITTING, ADDING OR MODIFYING PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS SUCH THAT ADEQUATE TRANSITIONS AND LANE TERMINATIONS BETWEEN ADJACENT ROADWAY SEGMENTS ARE CONSTRUCTED.

CITY OF LAS VEGAS STREET LIGHT NOTES

- 1. ALL STREET LIGHTING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE STREET LIGHTING PLANS, THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA," LATEST REVISION, AND THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA," LATEST REVISION, AND ANY ADOPTED SPECIAL AREA STANDARDS.
2. NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS (ETC.) LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF TRAFFIC ENGINEERING AND THE CITY ENGINEER.
3. ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.
4. ALL STREET LIGHTING CONDUITS STUB SHALL HAVE AT LEAST ONE GREEN #8 THW WIRE INSTALLED, AS TRACER WIRE. WHEN "EMPTY" CONDUIT IS COMPLETELY INSTALLED FROM PB TO PB, IT SHALL HAVE MINIMUM OF 2 #4 AND 1 #8 THW WIRE WITH THE ENDS TAPED OR "SAFE OFF" PRIOR TO FINAL INSPECTION.
5. ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, ETC., SHALL LEAVE A MINIMUM CLEARANCE IN ACCORDANCE WITH THE USD NO. 320A.
6. AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE CITY OF LAS VEGAS TRAFFIC ENGINEERING DEPARTMENT (TEFO) PRIOR TO ANY PRE-FINAL INSPECTION. THE AS-BUILT DRAWING NEEDS TO BE STAMPED AS-BUILT AND SIGNED BY THE PREPARER.
7. SERVICE POINT SHALL BE COORDINATED WITH NEVADA POWER COMPANY, AND WHEREVER POSSIBLE, BE LOCATED NEAR THE CENTER OF THE CIRCUIT. SERVICE POINTS SHALL BE SHOWN ON THE PLANS.
8. IT SHALL BE ASSUMED THAT IN THE ABSENCE OF AN EXISTING, WORKABLE CIRCUIT TO ATTACH TO, ALL INSTALLATIONS SHALL REQUIRE A NEW SERVICE FOR OPERATION OF THE CIRCUIT.
9. WHEREVER THERE IS AN OVERHEAD UTILITY THAT MAY CONFLICT WITH THE INSTALLATION OF STREET LIGHTING CIRCUITS AND/OR POLES, THESE CONFLICTS MUST BE RESOLVED BETWEEN THE DEVELOPER AND THE UTILITIES INVOLVED BEFORE STREET LIGHT BASES ARE INSTALLED AT NO EXPENSE TO THE CITY OF LAS VEGAS.
10. THE CONTRACTOR SHALL FURNISH COMPLETE SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS IF REQUIRED ON PLANS.
11. THE DEVELOPER/OWNER WILL BE REQUIRED TO SUPPLY POWER TO ALL NEW PUBLIC STREET LIGHTS INSTALLED UNDER THIS DESIGN PRIOR TO BOND RELEASE OR PROJECT COMPLETION. THE DEVELOPER/OWNER WILL BE RESPONSIBLE FOR ALL ITEMS ASSOCIATED WITH THE INSTALLATION, CONSTRUCTION, ENERGIZING, MAINTENANCE AND OPERATIONAL COST OF SAID STREET LIGHTS PRIOR TO PROJECT COMPLETION. REFER TO THE PLAN FOR ANY NEW SERVICE REQUIREMENTS. THE TRANSFER OF OWNERSHIP FROM DEVELOPER/OWNER TO THE CITY OF LAS VEGAS FOR ALL NEW PUBLIC STREET LIGHT/S AND/OR SERVICE/S INSTALLED UNDER THIS PLAN DESIGN WILL BE IN CONJUNCTION WITH THIS PROJECT COMPLETION. COORDINATE ALL MAINTENANCE AND OPERATIONAL TRANSFER WITH THE CITY OF LAS VEGAS TRAFFIC ENGINEERING DEPARTMENT (TEFO) AT (702) 229-6327.

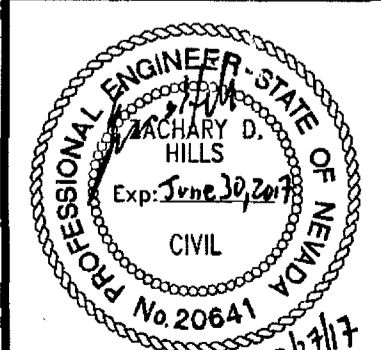
LAS VEGAS VALLEY WATER DISTRICT 1001 S. VALLEY VIEW BOULEVARD LAS VEGAS, NEVADA 89153 (702) 870-2011



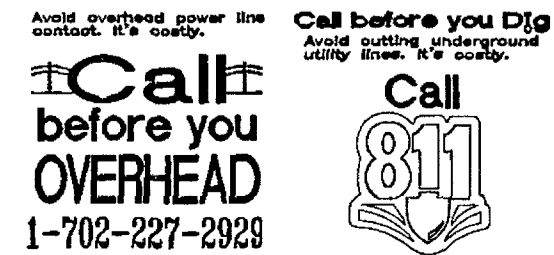
MISCELLANEOUS SMALL BACKFLOW INSTALLATIONS, PHASE XV

CITY OF LAS VEGAS GENERAL NOTES II

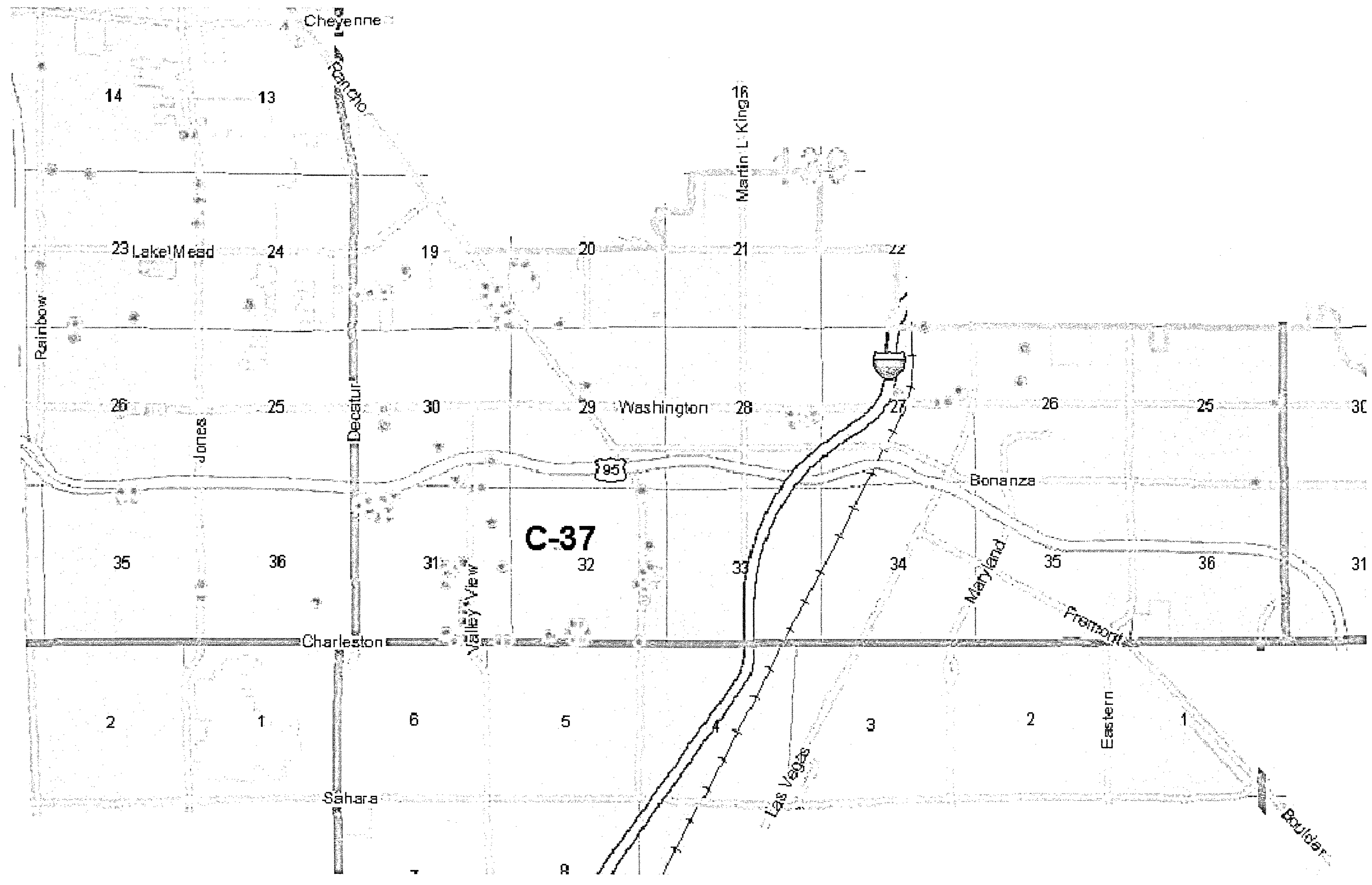
Table with columns for Drawn By, Checked By, Recommended By, Accepted By, Date, and Scale. Includes names like Stephen D. Miller, Zachary D. Hills, Christopher M. Luquette, and Ryan C. Pearson.



CONTRACT NUMBER C1467 DRAWING NUMBER G4 SHEET 4 OF 14







**AREA 37 - VICINITY MAP**  
NOT TO SCALE

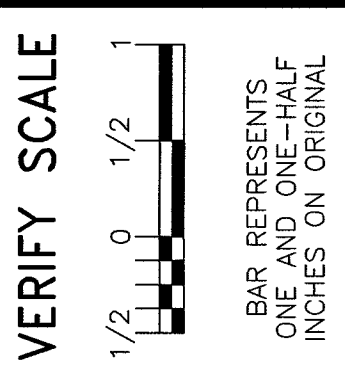
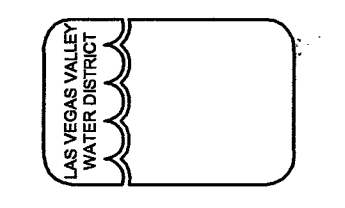
CITY OF LAS VEGAS  
CONSTRUCTION INSPECTION AREA

Area 37

TOTAL BACKFLOW INSTALLTIONS  
WITHIN CLV AREA

Area 37 (372)

**LAS VEGAS VALLEY  
WATER DISTRICT**  
1001 S. VALLEY VIEW BOULEVARD  
LAS VEGAS, NEVADA 89153  
(702) 870-2011

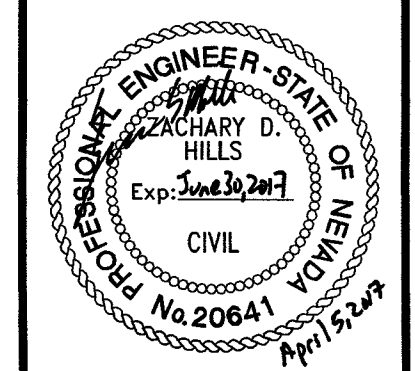


MISCELLANEOUS SMALL BACKFLOW  
INSTALLATIONS, PHASE XV

PROJECT LOCATION MAP AND  
CLV INSPECTION AREA 37

SCALE  
NONE

DRAWN BY: STEPHEN D. MILLER 3/22/17  
CHECKED BY: ZACHARY D. HILLS 3/22/17  
RECOMMENDED BY: CHRISTOPHER M. LUQUETTE DATE  
ACCEPTED BY: RYAN C. PEARSON DATE



CONTRACT NUMBER

**C1467**  
DRAWING NUMBER C.1  
SHEET 6 OF 14

REVISIONS:

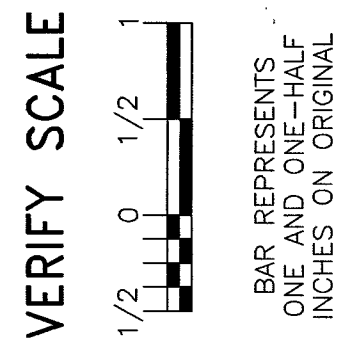
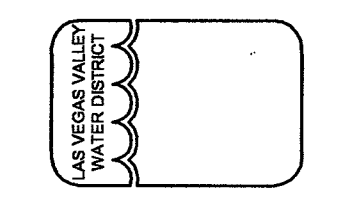


APN	Service Address	Hansen No.	Meter Size	Wateruse Description	Map No.	CLV Off-Site Inspection Area
13919401001	1760 N DECATUR BLVD	110128	1 1/2	Multi Service Residential	E 489: 60' Easement	37
13919401001	1760 N DECATUR BLVD	110129	1	Multi Service Residential	E 489: 60' Easement	37
13919401001	1760 N DECATUR BLVD	110130	3/4	Multi Service Residential	E 489: 60' Easement	37
13919401001	1760 N DECATUR BLVD	110131	1 1/2	Irrigation Residential	E 489: 60' Easement	37
13919401001	1760 N DECATUR BLVD	110132	1 1/2	Multi Service Residential	E 489: 60' Easement	37
13919401001	1760 N DECATUR BLVD	110133	1 1/2	Multi Service Residential	E 489: 60' Easement	37
13931111001	4700 MEADOWS LN	110500	1 1/2	Non Residential Domestic	E 594: 20' width	37
13920311028	1953 CINDYSUE ST	113581	3/4	Multi Service Residential	Book 8, Page 99: 6' easement abutting 20' alley	37
13920311027	1949 CINDYSUE ST	113582	3/4	Multi Service Residential	Book 8, Page 99: 6' easement abutting 20' alley	37
13920311026	1945 CINDYSUE ST	113583	3/4	Multi Service Residential	Book 8, Page 99: 6' easement abutting 20' alley	37
13931111001	4700 MEADOWS LN	115666	1 1/2	Non Residential Domestic	E 668: 20' width	37
13931110002	4600 MEADOWS LN	115667	2	Non Residential Domestic	E 665: 20' width	37
13931110003	4550 MEADOWS LN	115668	2	Non Residential Domestic	E 666: 20' width	37
13931110005	4500 BLK MEADOWS LN	115669	1 1/2	Irrigation Non Residential	E 666: 20' width	37
13931110012	4514 MEADOWS LN	115670	1 1/2	Non Residential Domestic	E 666: 20' width	37
13931110005	4510 MEADOWS LN	115671	2	Non Residential Domestic	E 666: 20' width	37
13931110011	4500 MEADOWS LN	115672	1 1/2	Non Residential Domestic	E 661: 20' width	37
13931110010	4500-4510 MEADOWS/PARKING LT U	115673	1 1/2	Non Residential Domestic	E 661: 20' width	37
13931110008	4610 MEADOWS LN	115675	1 1/2	Non Residential Domestic	E 658: 20' width	37
13931110001	4640 MEADOWS LN	115677	1 1/2	Non Residential Domestic	E 668 E 658: 20' width	37
13823599016	2300 BLK JONES BLVD	118352	3/4	Irrigation Non Residential	E 151	37
13823599020	2300 BLK JONES BLVD	118353	3/4	Irrigation Non Residential	E 151	37
13823699011	2000 BLK JONES BLVD	118354	3/4	Irrigation Non Residential	E 151	37
13931801005	920 S VALLEY VIEW BLVD	120580	1	Non Residential Domestic	LVVWD DG 004	37
13920311010	1916 ALLEN LN	120931	1	Multi Service Residential	Book 8, Page 99: 6' easement abutting 20' alley	37
13920311012	1908 ALLEN LN	120932	1	Multi Service Residential	Book 8, Page 99: 6' easement abutting 20' alley	37
13920311013	1904 ALLEN LN	120933	1	Multi Service Residential	Book 8, Page 99: 6' easement abutting 20' alley	37
13920311014	1900 ALLEN LN	120934	1	Multi Service Residential	Book 8, Page 99: 6' easement abutting 20' alley	37
13920311011	1912 ALLEN LN	120935	1	Multi Service Residential	Book 8, Page 99: 6' easement abutting 20' alley	37
13920311056	1953 ALWILL ST	120936	1	Multi Service Residential	Book 8, Page 99: 6' easement abutting 20' alley	37
13920311043	1901 ALWILL ST	120937	1	Multi Service Residential	Book 8, Page 99: 6' easement abutting 20' alley	37
13920311029	1952 CINDYSUE ST	120938	1	Multi Service Residential	Book 8, Page 99: 6' easement abutting 20' alley	37
13932711030	601 S RANCHO DR STE D28	122921	2	Non Residential Domestic	Bk 26, P87: PUE over Pvt drive and common area	37
13932711002	601 S RANCHO DR STE A1	122922	2	Non Residential Domestic	Bk 26, P87: PUE over Pvt drive and common area	37
13932711014	601 S RANCHO DR STE B11	122923	2	Non Residential Domestic	Bk 26, P87: PUE over Pvt drive and common area	37
13932711018	601 S RANCHO DR STE C18	122924	2	Non Residential Domestic	Bk 26, P87: PUE over Pvt drive and common area	37
	601 S RANCHO DR	122925	2	Non Residential Domestic	Bk 26, P87: PUE over Pvt drive and common area	37
	601 S RANCHO DR	122926	2	Irrigation Non Residential	Bk 26, P87: PUE over Pvt drive and common area	37
	601 S RANCHO DR	122927	2	Irrigation Non Residential	Bk 26, P87: PUE over Pvt drive and common area	37
13932802035	2310 W CHARLESTON BLVD	123013	2	Non Residential Domestic	E1180: 20' x 10'	37
13920311042	1900 CINDYSUE ST	123191	1	Multi Service Residential	Book 8, Page 99: 6' easement abutting 20' alley	37
13920311008	1924 ALLEN LN	123198	1	Multi Service Residential	Book 8, Page 99: 6' easement abutting 20' alley	37
13931111001	4700 MEADOWS LN	124988	1 1/2	Irrigation Non Residential	E 668: 20' width	37
13931110004	4530 MEADOWS LN	124989	2	Irrigation Non Residential	E 659: 20' Width	37
13813511011	3175 N RANCHO DR	127888	2	Non Residential Domestic	Book 28, Page 7: LVVWD Easement 60' width	37
	3121 N RANCHO DR	127889	2	Non Residential Domestic	Book 28, Page 7: LVVWD Easement 60' width	37
13813511008	3101 N RANCHO DR	127890	2	Non Residential Domestic	Book 28, Page 7: LVVWD Easement 60' width	37
13813511008	3103 N RANCHO DR	127891	2	Non Residential Domestic	Book 28, Page 7: LVVWD Easement 60' width	37
13813511009	3119 N RANCHO DR	127892	2	Non Residential Domestic	Book 28, Page 7: LVVWD Easement 60' width	37
13813511007	3121 N RANCHO DR	127893	2	Non Residential Domestic	Book 28, Page 7: LVVWD Easement 60' width	37
13813511006	3131 N RANCHO DR	127894	2	Non Residential Domestic	Book 28, Page 7: LVVWD Easement 60' width	37
13813511005	3141 N RANCHO DR	127895	2	Non Residential Domestic	Book 28, Page 7: LVVWD Easement 60' width	37
13813511002	3149 N RANCHO DR	127896	2	Non Residential Domestic	Book 28, Page 7: LVVWD Easement 60' width	37
13813511001	3155 N RANCHO DR	127897	2	Irrigation Non Residential	Book 28, Page 7: LVVWD Easement 60' width	37
13931801002	820 S VALLEY VIEW BLVD	128722	1	Non Residential Domestic	LVVWD DG 004	37
13930812002	150 S VALLEY VIEW BLVD	128888	2	Non Residential Domestic	E 1273	37
13931620001	420 S VALLEY VIEW BLVD	128890	1	Non Residential Domestic	EG 029: 80' width	37
13932412021	2810 W CHARLESTON BLVD	129398	1	Non Residential Domestic	Bk 28, Pg 44: Blanket over private streets & common areas	37
13932412009	2810 W CHARLESTON BLVD	129399	1	Non Residential Domestic	Bk 28, Pg 44: Blanket over private streets & common areas	37
13932412001	2810 W CHARLESTON BLVD	129400	1	Non Residential Domestic	Bk 28, Pg 44: Blanket over private streets & common areas	37
13932412030	2810 W CHARLESTON BLVD	129401	1	Non Residential Domestic	Bk 28, Pg 44: Blanket over private streets & common areas	37
13932497002	2810 W CHARLESTON BLVD	129403	2	Irrigation Non Residential	Bk 28, Pg 44: Blanket over private streets & common areas	37
13930313001	700 BLK SEA PINES LN	130619	1 1/2	Irrigation Residential	Bk 29, Pg 60	37
	1701 N RANCHO DR	130688	2	Multi Service Residential	Book 2, Page 38: 5' easement along all lot lines	37
13927603024	1000-1006 1/2 N MAIN ST	133074	2	Non Residential Domestic	E 1838: 15' x 10'	37
13931801001	800 S VALLEY VIEW BLVD	133299	1	Non Residential Domestic	LVVWD DG 004	37
13930312035	800 BLK SEA PINES LN	137663	3/4	Irrigation Residential	Bk 29, Pg 60	37
13930312035	800 BLK SEA PINES LN	137667	3/4	Irrigation Residential	Bk 29, Pg 60	37
13930312035	800 BLK SEA PINES LN	137671	3/4	Irrigation Residential	Bk 29, Pg 60	37
13930312035	800 BLK SEA PINES LN	137674	3/4	Irrigation Residential	Bk 29, Pg 60	37
13823710001	1936 LIRIO WAY	137951	1	Multi Service Residential	Book 31, Page 18: 5' along front p/l	37
13823710002	1932 LIRIO WAY	137952	1	Multi Service Residential	Book 31, Page 18: 5' along front p/l	37
13823710003	1928 LIRIO WAY	137953	1	Multi Service Residential	Book 31, Page 18: 5' along front p/l	37
13823710004	1924 LIRIO WAY	137954	1	Multi Service Residential	Book 31, Page 18: 5' along front p/l	37
13823710005	1920 LIRIO WAY	137955	1	Multi Service Residential	Book 31, Page 18: 5' along front p/l	37
13823710006	1916 LIRIO WAY	137956	1	Multi Service Residential	Book 31, Page 18: 5' along front p/l	37
13823710007	1912 LIRIO WAY	137957	1	Multi Service Residential	Book 31, Page 18: 5' along front p/l	37
13823710008	1908 LIRIO WAY	137958	1	Multi Service Residential	Book 31, Page 18: 5' along front p/l	37
13823710009	1904 LIRIO WAY	137959	1	Multi Service Residential	Book 31, Page 18: 5' along front p/l	37
13823710010	1900 LIRIO WAY	137960	1	Multi Service Residential	Book 31, Page 18: 5' along front p/l	37
13823710011	6249 BELLOTA DR	137961	1	Multi Service Residential	Book 31, Page 18: 5' along front p/l	37
13823710012	6245 BELLOTA DR	137962	1	Multi Service Residential	Book 31, Page 18: 5' along front p/l	37
13823710013	6241 BELLOTA DR	137963	1	Multi Service Residential	Book 31, Page 18: 5' along front p/l	37
13823710014	6237 BELLOTA DR	137964	1	Multi Service Residential	Book 31, Page 18: 5' along front p/l	37
13823710015	6233 BELLOTA DR	137965	1	Multi Service Residential	Book 31, Page 18: 5' along front p/l	37
13823710016	6229 BELLOTA DR	137966	1	Multi Service Residential	Book 31, Page 18: 5' along front p/l	37

APN	Service Address	Hansen No.	Meter Size	Wateruse Description	Map No.	CLV Off-Site Inspection Area
13823710017	6225 BELLOTA DR	137967	1	Multi Service Residential	Book 31, Page 18: 5' along front p/l	37
13823710018	6221 BELLOTA DR	137968	1	Multi Service Residential	Book 31, Page 18: 5' along front p/l	37
13823710019	6217 BELLOTA DR	137969	1	Multi Service Residential	Book 31, Page 18: 5' along front p/l	37
13823710020	6213 BELLOTA DR	137970	1	Multi Service Residential	Book 31, Page 18: 5' along front p/l	37
13823710021	6209 BELLOTA DR	137971	1	Multi Service Residential	Book 31, Page 18: 5' along front p/l	37
13823710022	6205 BELLOTA DR	137972	1	Multi Service Residential	Book 31, Page 18: 5' along front p/l	37
13823710023	6201 BELLOTA DR	137973	1	Multi Service Residential	Book 31, Page 18: 5' along front p/l	37
13823710023	6201 BELLOTA DR	137973	1	Multi Service Residential	Book 31, Page 18: 5' along front p/l	37
13823710034	6245 ILANOS LN	137974	1	Multi Service Residential	Book 31, Page 18: 5' along front p/l	37
13823710033	6244 BELLOTA DR	137975	1	Multi Service Residential	Book 31, Page 18: 5' along front p/l	37
13823710032	6240 BELLOTA DR	137976	1	Multi Service Residential	Book 31, Page 18: 5' along front p/l	37
13823710031	6236 BELLOTA DR	137977	1	Multi Service Residential	Book 31, Page 18: 5' along front p/l	37
13823710030	6232 BELLOTA DR	137978	1	Multi Service Residential	Book 31, Page 18: 5' along front p/l	37
13823710029	6228 BELLOTA DR	137979	1	Multi Service Residential	Book 31, Page 18: 5' along front p/l	37
13823710028	6224 BELLOTA DR	137980	1	Multi Service Residential	Book 31, Page 18: 5' along front p/l	37
13823710027	6220 BELLOTA DR	137981	1	Multi Service Residential	Book 31, Page 18: 5' along front p/l	37
13823710026	6216 BELLOTA DR	137982	1	Multi Service Residential	Book 31, Page 18: 5' along front p/l	37
13823710025	6212 BELLOTA DR	137983	1	Multi Service Residential	Book 31, Page 18: 5' along front p/l	37
13823710024	6208 BELLOTA DR	137984	1	Multi Service Residential	Book 31, Page 18: 5' along front p/l	37
13823710036	6245 YERBA LN	137985	1	Multi Service Residential	Book 31, Page 18: 5' along front p/l	37
13823710035	6244 ILANOS LN	137986	1	Multi Service Residential	Book 31, Page 18: 5' along front p/l	37
13823710037	6244 YERBA LN	137987	1	Multi Service Residential	Book 31, Page 18: 5' along front p/l	37
13928310001	2041 W WASHINGTON AVE	138684	1	Multi Service Residential	Book 31, Page 65	37
13928310002	2031 W WASHINGTON AVE	138690	1	Multi Service Residential	Book 31, Page 65	37
13928397001	W 2000 BLK WASHINGTON AVE	138699	1	Irrigation Non Residential	Book 31, Page 65	37
13928397001	2011 W WASHINGTON AVE	138700	1	Irrigation Residential	Book 31, Page 65	37
	2001 W WASHINGTON AVE	138701	1	Irrigation Residential	Book 31, Page 65	37
13823711018	1901 ARPA WAY	139392	1	Multi Service Residential	Book 31, Page 99: 5' along front p/l	37
13823711017	1905 ARPA WAY	139393	1	Multi Service Residential	Book 31, Page 99: 5' along front p/l	37
13823711016	1909 ARPA WAY	139394	1	Multi Service Residential	Book 31, Page 99: 5' along front p/l	37
13823711015	1913 ARPA WAY	139395	1	Multi Service Residential	Book 31, Page 99: 5' along front p/l	37
13823711014	1917 ARPA WAY	139396	1	Multi Service Residential	Book 31, Page 99: 5' along front p/l	37
13823711013	1921 ARPA WAY	139397	1	Multi Service Residential	Book 31, Page 99: 5' along front p/l	37
13823711012	1925 ARPA WAY	139398	1	Multi Service Residential	Book 31, Page 99: 5' along front p/l	37
13823711011	1929 ARPA WAY	139399	1	Multi Service Residential	Book 31, Page 99: 5' along front p/l	37
13823711010	1933 ARPA WAY	139400	1	Multi Service Residential	Book 31, Page 99: 5' along front p/l	37
13823711019	6209 ILANOS LN	139401	1	Multi Service Residential	Book 31, Page 99: 5' along front p/l	37
13823711020	6213 ILANOS LN	139402	1	Multi Service Residential	Book 31, Page 99: 5' along front p/l	37
13823711021	6217 ILANOS LN	139403	1	Multi Service Residential	Book 31, Page 99: 5' along front p/l	37
13823711022	6221 ILANOS LN	139404	1	Multi Service Residential	Book 31, Page 99: 5' along front p/l	37
13823711023	6225 ILANOS LN	139405	1	Multi Service Residential	Book 31, Page 99: 5' along front p/l	37
13823711024	6229 ILANOS LN	139406	1	Multi Service Residential	Book 31, Page 99: 5' along front p/l	37
13823711025	6233 ILANOS LN	139407	1	Multi Service Residential	Book 31, Page 99: 5' along front p/l	37
13823711026	6237 ILANOS LN	139408	1	Single Service Residential	Book 31, Page 99: 5' along front p/l	37
13823711027	6241 ILANOS LN	139409	1	Multi Service Residential	Book 31, Page 99: 5' along front p/l	37
13823711028	6240 ILANOS LN	139410	1	Multi Service Residential	Book 31, Page 99: 5' along front p/l	37
13823711029	6236 ILANOS LN	139411	1	Multi Service Residential	Book 31, Page 99: 5' along front p/l	37
13823711030	6232 ILANOS LN	139412	1	Multi Service Residential	Book 31, Page 99: 5' along front p/l	37
13823711031	6228 ILANOS LN	139413	1	Multi Service Residential	Book 31, Page 99: 5' along front p/l	37
13823711032	6224 ILANOS LN	139414	1	Multi Service Residential	Book 31, Page 99: 5' along front p/l	37
13823711033	6220 ILANOS LN	139415	1	Multi Service Residential	Book 31, Page 99: 5' along front p/l	37
13823711034	6216 ILANOS LN	139416	1	Multi Service Residential	Book 31, Page 99: 5' along front p/l	37
13823711035	6212 ILANOS LN	139417	1	Multi Service Residential	Book 31, Page 99: 5' along front p/l	37

APN	Service Address	Hansen No.	Meter Size	Wateruse Description	Map No.	CLV Off-Site Inspection Area
13823817006	1620 JOSHUA TREE CT	141404	5/8	Irrigation Residential	Book 32, Page 78: 5' x 31' along front p/l	37
13932411024	2820 W CHARLESTON BLVD BLDG A	144408	1	Non Residential Domestic	Bk 29, Pg 31: Blanket over private streets & common areas	37
13932411012	2820 W CHARLESTON BLVD	144409	1	Non Residential Domestic	Bk 29, Pg 31: Blanket over private streets & common areas	37
13932411004	2820 W CHARLESTON BLVD	144410	1	Non Residential Domestic	Bk 29, Pg 31: Blanket over private streets & common areas	37
13932411032	2820 W CHARLESTON BLVD	144411	1	Non Residential Domestic	Bk 29, Pg 31: Blanket over private streets & common areas	37
13815897001	CATHEDRAL ROCK 7200 DR	144594	2	Irrigation Non Residential	Book 38, Page 91: 5' Easement abutting street	37
13919812006	3700 VEGAS DR	150007	5/8	Non Residential Domestic	Book 2, Page 38: 5' easements along all lot lines	37
13919812007	3702 VEGAS DR	150008	3/4	Non Residential Domestic	Book 2, Page 38: 5' easements along all lotline	37
13929201004	1028 N RANCHO DR	150017	1	Non Residential Domestic	MS - 26	37
13929201004	1032 N RANCHO DR	150019	5/8	Non Residential Domestic	MS - 26	37
13833814073	7900 W CHARLESTON BLVD	157460	2	Irrigation Residential	Book 37, Page 49	37
	8000 BLK CORAL SHORES DR	520651	2	Irrigation Residential	Book 39, Page 26; 5' along property lines	37
13816197004	SOARING GULLS W/S 3100 WAY	521503	2	Irrigation Residential	E 1874: 15' x 15' - also Book 39, Page 26	37
13919812001	1661 N RANCHO DR	521510	3/4	Non Residential Domestic	Book 2, Page 38: 5' easement along all lot lines	37
13823418014	1600 BURNINGWOOD LN	522016	1	Multi Service Residential	Book 39, Page 75	37
13823418010	1608 BURNINGWOOD LN	522017	1	Multi Service Residential	Book 39, Page 75	37
13817215001	2749 CROWN RIDGE DR	523888	5/8	Non Residential Domestic	Book 40, Page 28	37
13823711004	6228 YERBA LN	524296	1	Multi Service Residential	Book 31, Page 99: 5' along front p/l	37
13927603025	1000-1006 1/2 N MAIN ST	524568	2	Non Residential Domestic	E 1838: 15' x 10'	37
13817297003	9029 GEMSTONE DR # IRRG	527487	1	Irrigation Residential	Book 40, Page 82	37
	3000 BLK SUN LAKE DR	529347	5/8	Irrigation Residential	Book 42, Page 23	37
13834814005	1001 S RAINBOW BLVD	530306	2	Non Residential Domestic	E 2018	37
13817697001	2900 BLK LINKVIEW DR	530993	1 1/2	Irrigation Residential	Book 42, Page 90	37
13817497003	9000 BLK SUNDIAL DR	538536	1 1/2	Irrigation Residential	E1780: 50' wide	37
	9200 BLK LAKE MEAD BLVD	540450	1 1/2	Irrigation Residential	In RW or Lot A Book 47, Page 81	37
13932403014	3100 W CHARLESTON BLVD	541552	2	Non Residential Domestic	E 3114: 10' x 15'	37
13816497008	8200 BLK BOYNTON BEACH DR	552555	3/4	Irrigation Residential	E 3088	37
13818497001	2500 BLK HIGHVALE U	555088	2	Irrigation Residential	Book 50, Page 85	37
13814802003	2520 N JONES BLVD	555510	2	Non Residential Domestic	E3797: 10' x 20'	37
13810719002	6840 ELM CREEK DR UNIT 104	560156	2	Multi Service Residential	Book 57, Page 35: A permanent easement over all private streets and common areas not occupied by buildings	37
13826197004	1500 BLK PADRE BAY DR	560327	5/8	Irrigation Residential	Book 52, Page 100: common areas subordinate to utility	37
13821617003	7652 W LAKE MEAD BLVD	563970	1	Non Residential Domestic	E 4012	37
13818597004	3100 BLK LOTUS HILL DR	565263	3/4	Irrigation Residential	Book 50, Page 56	37
13821712089	7600 BLK ALLAND WAY	569735	1 1/2	Irrigation Residential	Book 57, Page 56	37
13810723001	3416-3428 WINTERHAVEN AVE	575661	2	Multi Service Residential	Book 61, Page 7: A permanent easement over all private streets and common areas not occupied by buildings	37
13823301004	1950 N RAINBOW BLVD	577070	2	Non Residential Domestic	E4506: 10' x 15'	37
13833415019	800 DESERT OAK CT	610371	5/8	Multi Service Residential	Book 75, Page 6	37
13930801001	4105 W BONANZA RD	792648	2-2	Non Residential Domestic	DG 006	37
	300 BLK VALLEY VIEW BLVD 4B COTTAGE	810279	3/4	Non Residential Domestic	LVVVD Owned: EG 222/DA 106	37

**LAS VEGAS VALLEY WATER DISTRICT**  
**1001 S. VALLEY VIEW BOULEVARD**  
**LAS VEGAS, NEVADA 89153**  
 (702) 876-3011

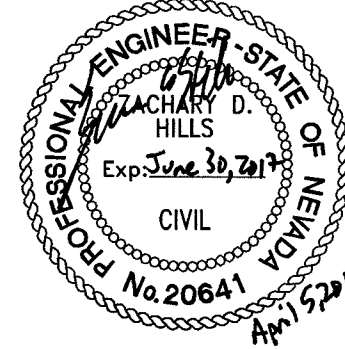


**MISCELLANEOUS SMALL BACKFLOW INSTALLATIONS, PHASE XV**

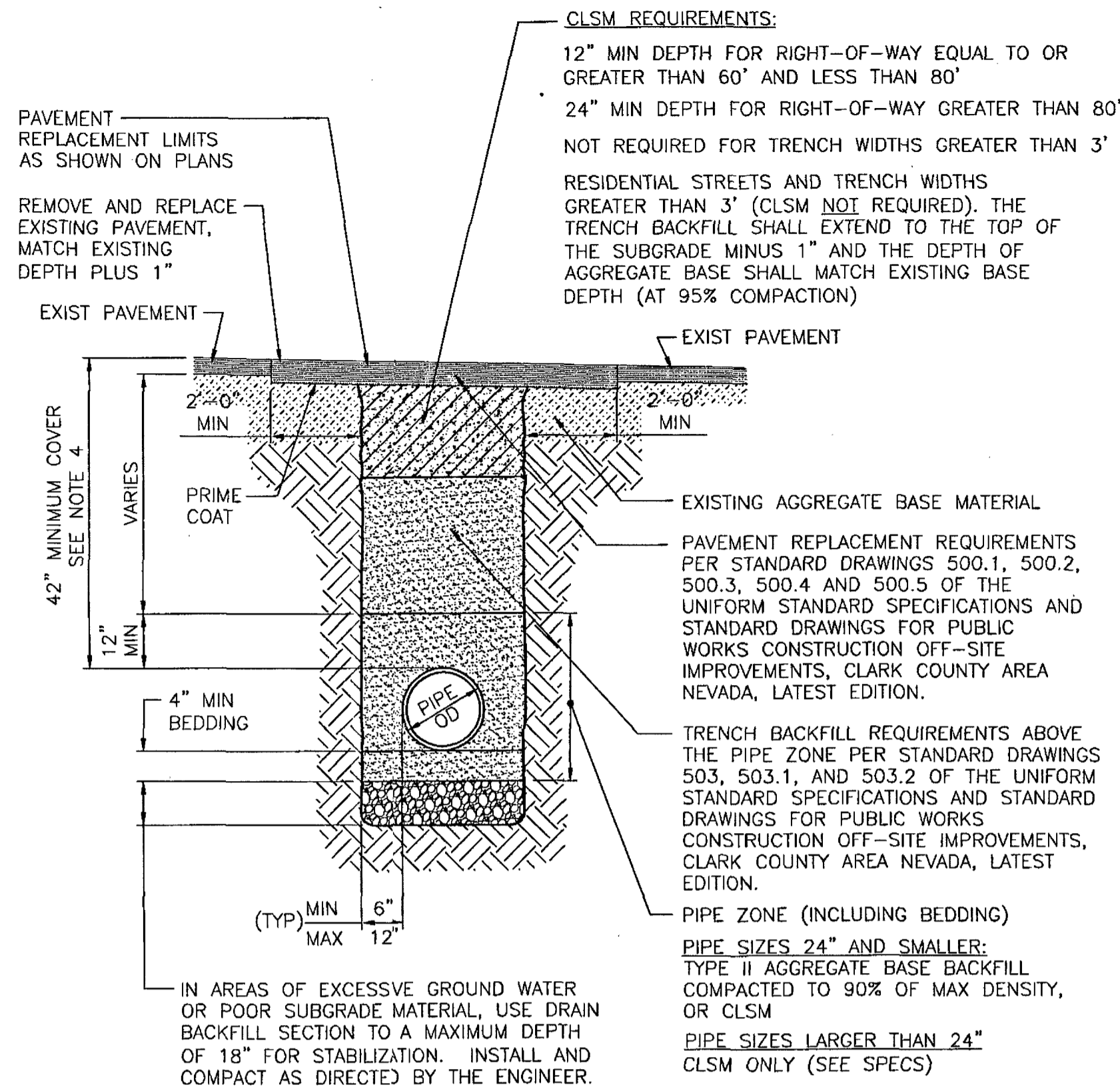
**PROJECT LOCATIONS LISTING III**

SCALE: NONE

DRAWN BY: STEPHEN D. MILLER 3/22/17  
 CHECKED BY: ZACHARY D. HILLS 3/22/17  
 RECOMMENDED BY: CHRISTOPHER M. LUQUETTE DATE  
 ACCEPTED BY: RYAN C. PEARSON DATE

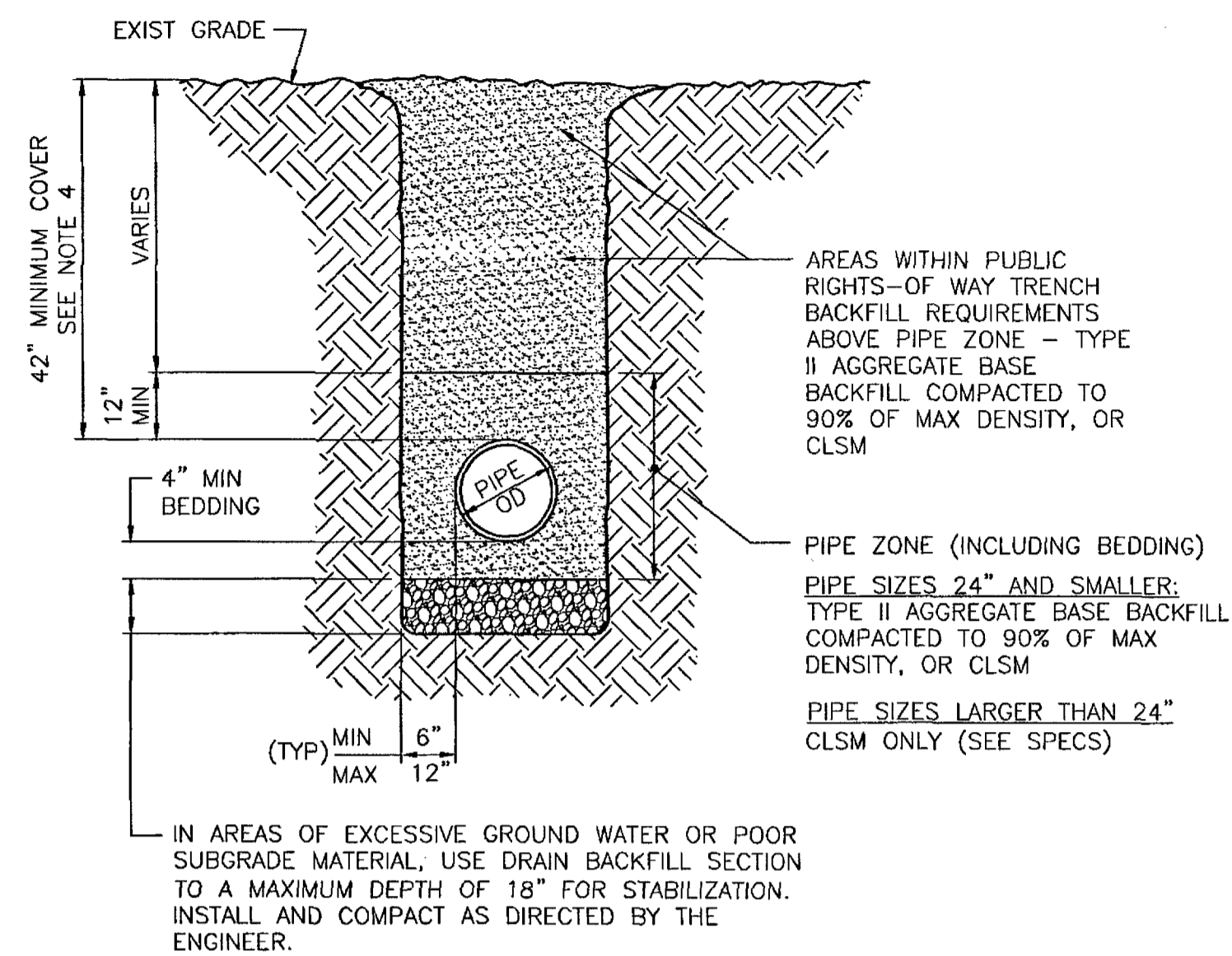


CONTRACT NUMBER  
**C1467**  
 DRAWING NUMBER C4  
 SHEET 9 OF 14



**TRENCH BACKFILL - PAVED AREAS**  
 NOT TO SCALE UDAC PLATE NO. 17 MODIFIED

1  
CDI

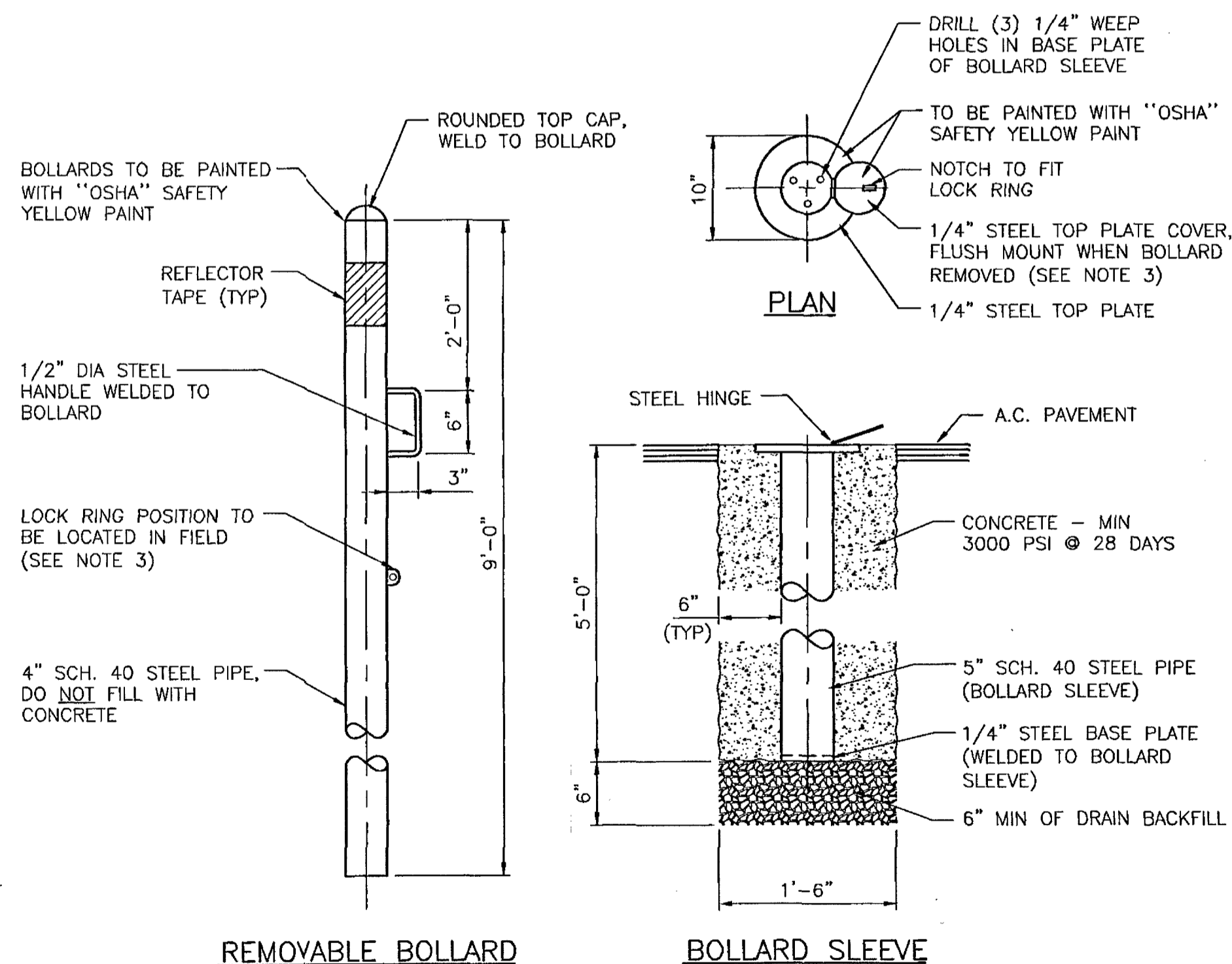


**TRENCH BACKFILL - UNPAVED AREAS**  
 NOT TO SCALE UDAC PLATE NO. 16 MODIFIED

2  
CDI

**NOTES FOR PAVED AND UNPAVED AREAS**  
 UDAC PLATE NO. 19 MODIFIED

- REFERENCES:  
 UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA NEVADA, LATEST EDITION.  
 INTERAGENCY QUALITY ASSURANCE COMMITTEE (IQAC)
- SEE SPECS SEC 31 20 00 FOR ACCEPTABLE METHODS OF COMPACTION.
- TRENCH EXCAVATION: COMPLY WITH THE CURRENT REGULATIONS AS DETERMINED BY NEVADA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.
- DURING CONSTRUCTION 24" MINIMUM COVER MUST BE MAINTAINED FROM TOP OF PIPE TO GRADE.
- MINIMUM COVER IS REFERENCED TO FUTURE FINISHED FINAL GRADES AT PIPE OR TOP OF CASING UNLESS OTHERWISE SHOWN ON PROFILE DRAWINGS.
- SUPPORT PIPE AND FIBER OPTIC CONDUITS (IF REQUIRED) WITH SANDBAGS AND SPOT LOAD AS REQUIRED DURING INSTALLATION OF CLSM IN PIPE ZONE AND PIPE BEDDING AREAS.
- DIAGONAL PAVEMENT REPLACEMENT IS NOT PERMITTED.
- INSTALL CONCRETE DAMS AT MAXIMUM INTERVALS OF 400' TO THE HEIGHT OF THE DRAIN ROCK AS REQUIRED.
- IN THE EVENT OF A CONFLICT BETWEEN THE ABOVE REQUIREMENTS AND THE NDOT PERMIT, THE PERMIT REQUIREMENTS WILL TAKE PRECEDENCE.
- SEE SPECIFICATIONS FOR APPROVED CLSM MIX REQUIREMENTS.



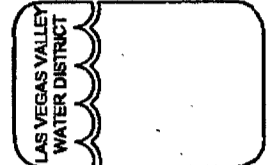
**NOTES:**

- PLACE 6" WIDE, YELLOW CLASS 4 REFLECTIVE TAPE (PER STANDARD SPECIFICATIONS, SECTION "16), 4" DOWN FROM TOP, FOR FULL DIAMETER ON ALL BOLLARDS.
- CONTRACTOR TO ASSURE THAT BOLLARDS ARE PLACED TO ALLOW FULL ACCESS TO THE PROTECTED FACILITY.
- INSTALL L/WVD PROVIDED LOCK AFTER INSTALLATION IS COMPLETE
- CONTRACTOR TO SUBMIT SHOP DRAWING ON BOLLARD ASSEMBLY

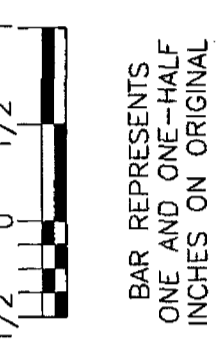
**REMOVABLE VEHICULAR PROTECTION BOLLARD**  
 NOT TO SCALE

3  
CDI

**LAS VEGAS VALLEY WATER DISTRICT**  
 1001 S. VALLEY VIEW BOULEVARD  
 LAS VEGAS, NEVADA 89153  
 (702) 870-2011



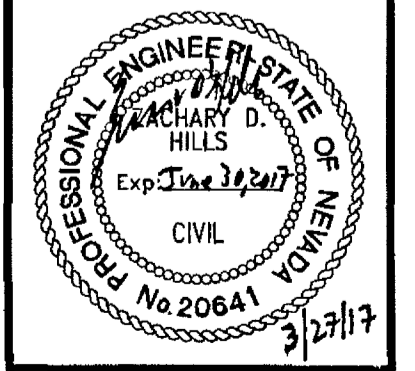
VERIFY SCALE



MISCELLANEOUS SMALL BACKFLOW INSTALLATIONS, PHASE XV

STANDARD DETAILS I

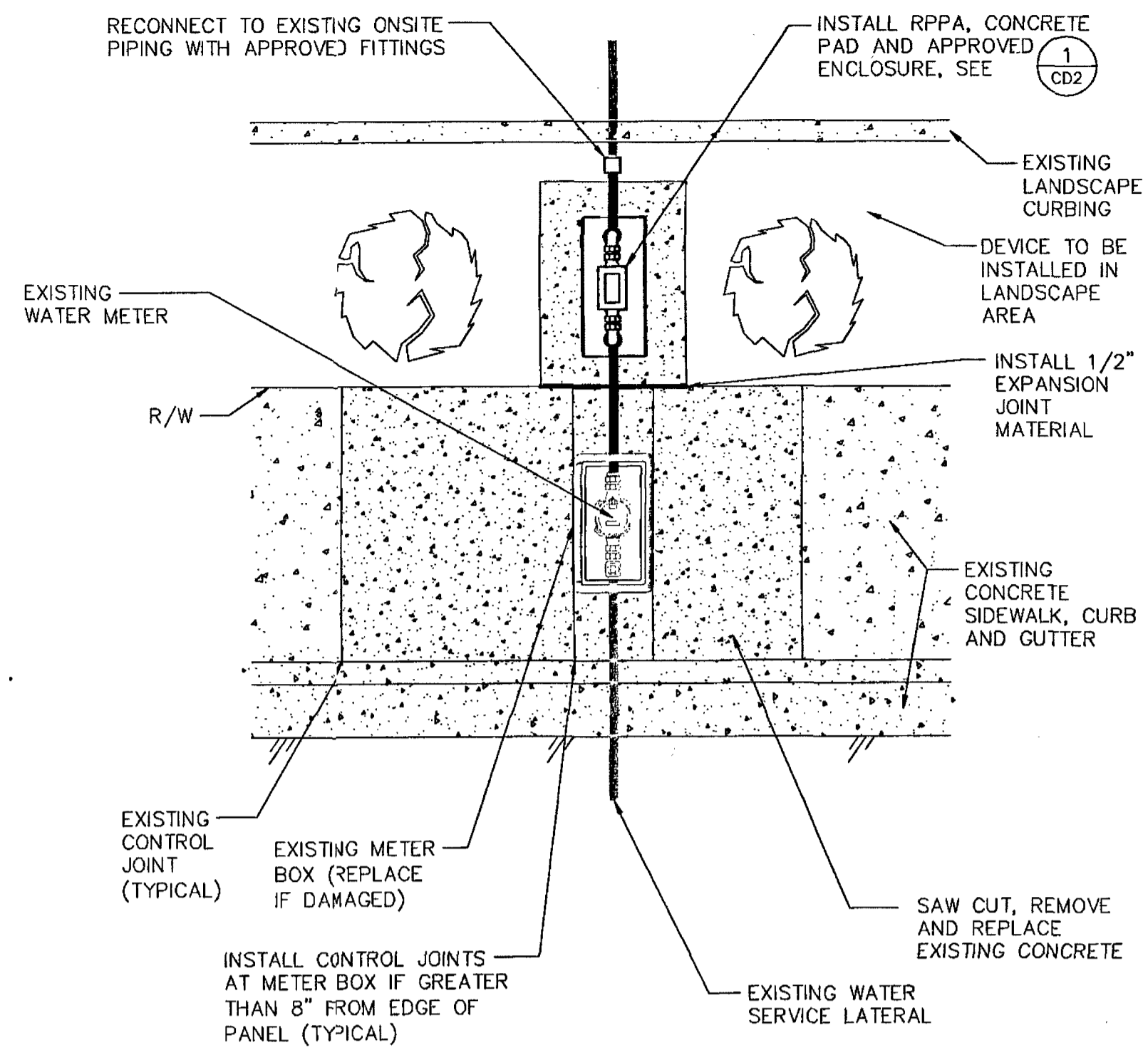
DRAWN BY:	STEPHEN D. MILLER	DATE:	9/19/16
CHECKED BY:	ZACHARY D. HILLS	DATE:	9/19/16
RECOMMENDED BY:		DATE:	
ACCEPTED BY:	CHRISTOPHER M. LUQUETTE	DATE:	
	RYAN C. PEARSON	DATE:	



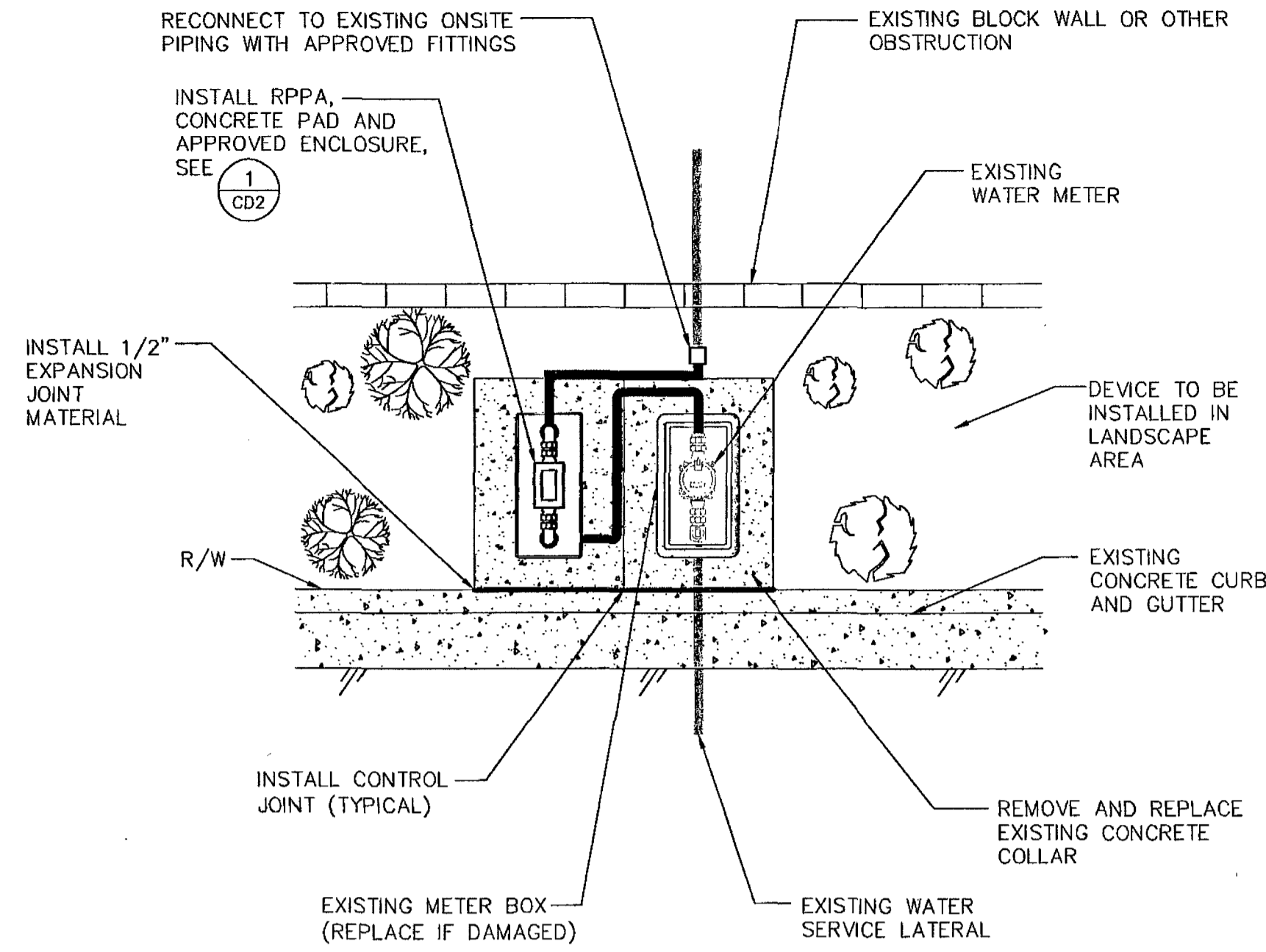
Call before you Dig  
 1-702-227-2829

CONTRACT NUMBER  
**C1467**  
 DRAWING NUMBER CD1  
 SHEET 12 OF 14

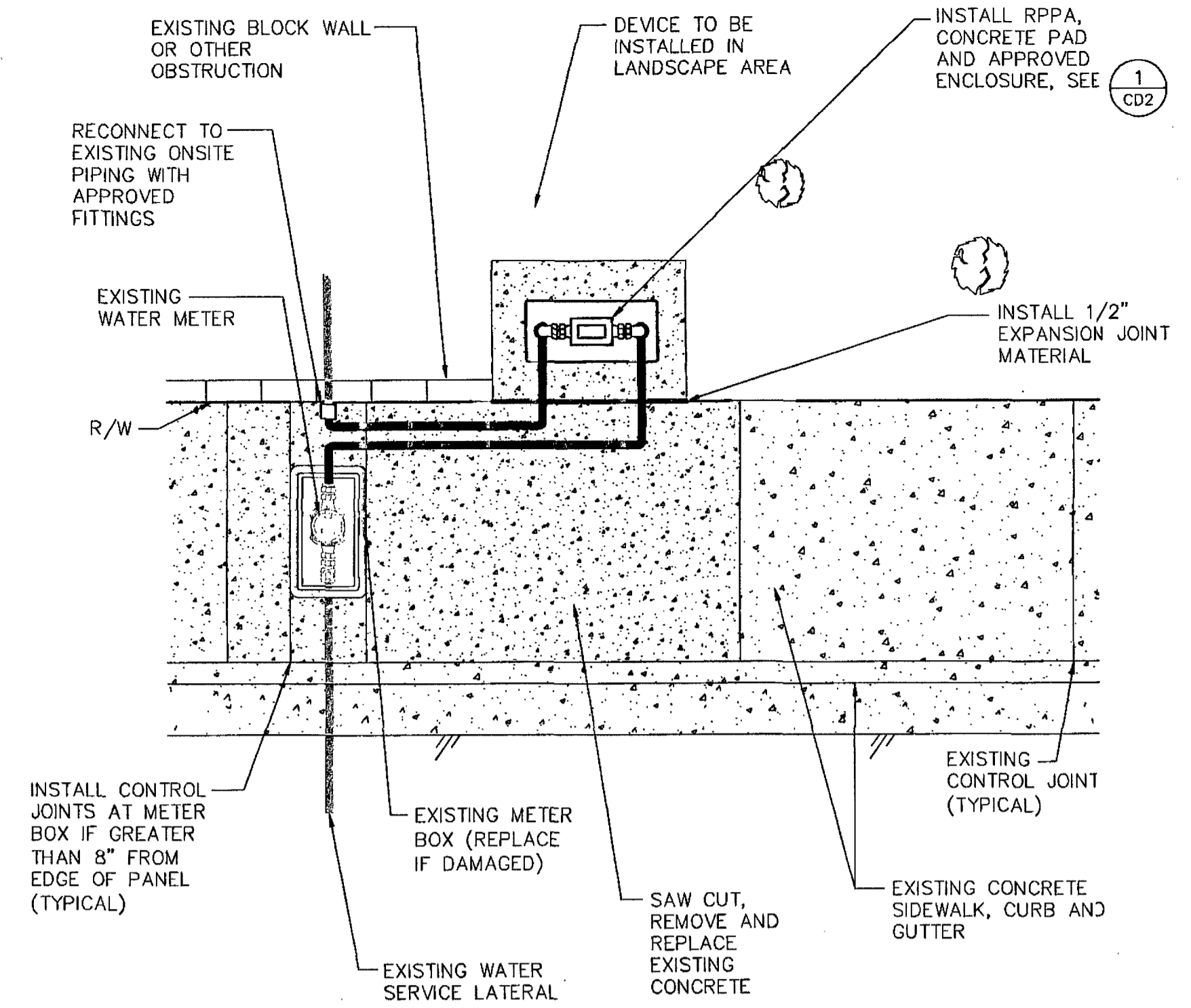




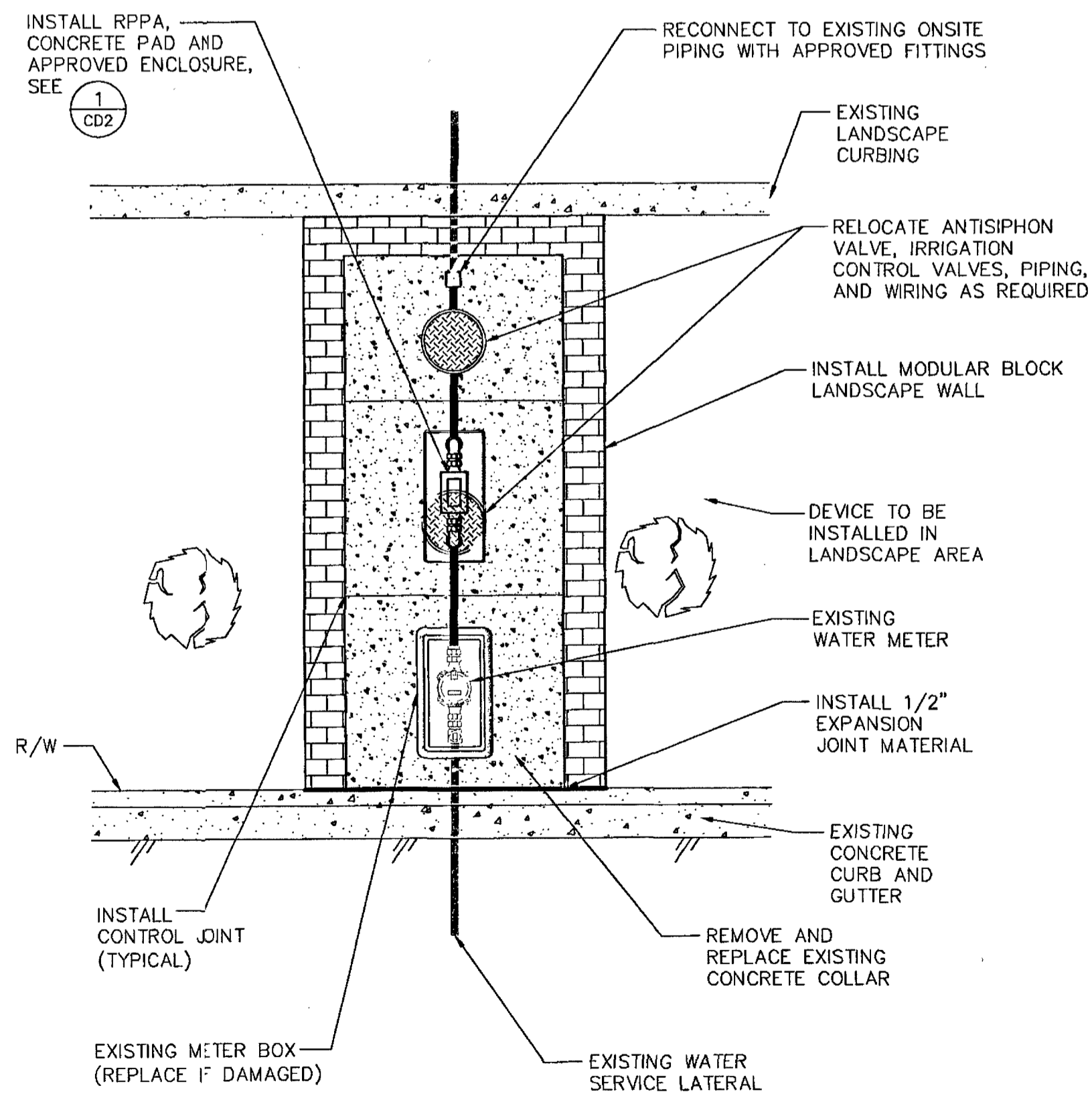
**BACKFLOW ASSEMBLY LOCATION - TYPE 1A**



**BACKFLOW ASSEMBLY LOCATION - TYPE 2A**



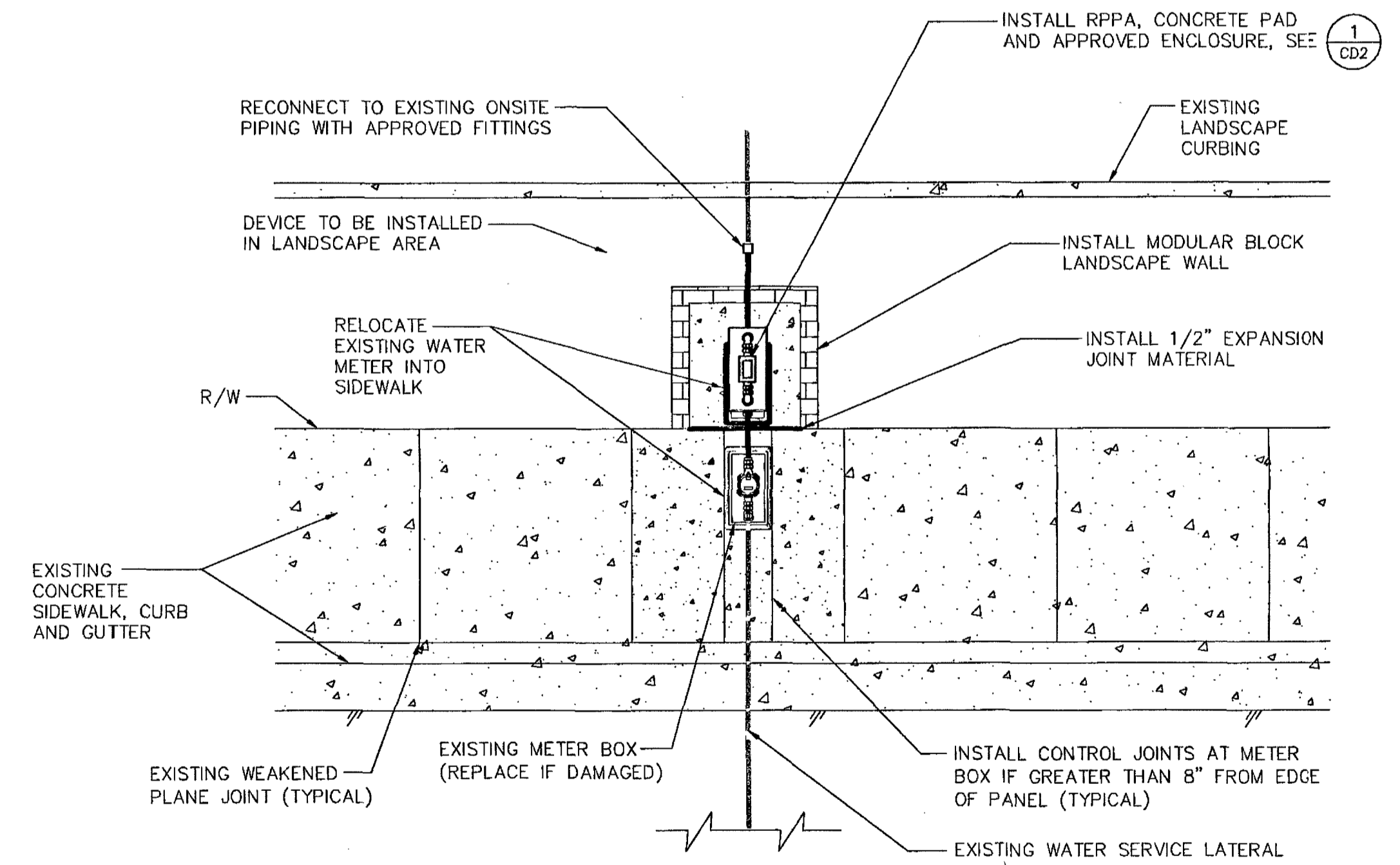
**BACKFLOW ASSEMBLY LOCATION - TYPE 3A**



**BACKFLOW ASSEMBLY LOCATION - TYPE 4A**

**NOTES:**

1. REFERENCES: INTERAGENCY QUALITY ASSURANCE COMMITTEE (IQAC)
2. SEE SPECS SEC 02300 FOR BACKFILL AND ACCEPTABLE METHODS OF COMPACTION
3. ALL EXCAVATIONS MUST COMPLY WITH THE CURRENT REGULATIONS AS DETERMINED BY NEVADA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
4. IF LANDSCAPE IS AFFECTED DURING WORK, REPAIR DAMAGE TO LANDSCAPE. LANDSCAPED AREA SHALL BE RESTORED TO ORIGINAL CONDITION INCLUDING VEGETATION OF LIKE QUALITY, TYPE AND SIZE. REMOVE AND REPLACE IRRIGATION LINES AS REQUIRED. ADD ADDITIONAL IRRIGATION FACILITIES TO PROVIDE COMPLETE COVERAGE AS NECESSARY
5. ALL COPPER TUBING AND BRASS PIPE BELOW GRADE SHALL BE WRAPPED WITH TWO LAYERS OF SIX (6) MIL POLYETHYLENE AND ENCASED ALL AROUND WITH 4" MINIMUM OF SAND
6. PIPING BETWEEN METER AND BACKFLOW ASSEMBLY TO BE BRASS
7. PIPING FROM BRASS TRANSITION COUPLING AFTER BACKFLOW DEVICE TO ONSITE PIPING SHALL BE SCH 40 PVC
8. FOR ACTUAL DIMENSIONS OF CONCRETE COLLAR/PAD, SEE SITE DRAWINGS
9. FINAL LOCATION OF ANTISIPHON VALVE AND IRRIGATION CONTROL VALVES TO BE DETERMINED BY DISTRICT AND PROPERTY OWNER.
10. WEAKENED PLANE CONTROL JOINTS TO BE INSTALLED AT METER BOX IF GREATER THAN 8" FROM EDGE OF SIDEWALK PANEL
11. COORDINATE ALL FENCE/WALL INSTALLATIONS WITH DISTRICT AND PROPERTY OWNER.
12. SITE CONDITIONS SHALL ACCOMMODATE 36" MIN CLEAR CLEARANCE AROUND ALL SIDES OF DEVICE FOR LVVWD MAINTENANCE



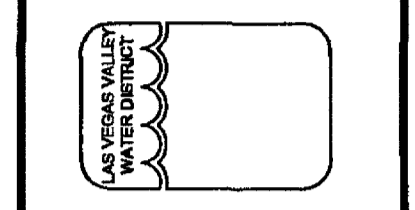
**BACKFLOW ASSEMBLY LOCATION - TYPE 5A**

**REDUCED PRESSURE PRINCIPLE ASSEMBLY BACKFLOW - LOCATION DETAILS**  
NOT TO SCALE

1 CD3

Call before you Dig  
1-702-227-2929  
Call 811

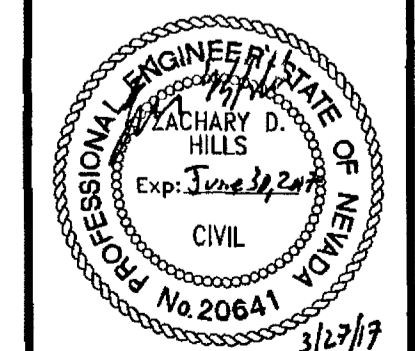
**LAS VEGAS VALLEY WATER DISTRICT**  
1001 S. VALLEY VIEW BOULEVARD  
LAS VEGAS, NEVADA 89153  
(702) 890-2011



**VERIFY SCALE**  
1/2" = 0' 1/2"  
BAR REPRESENTS ONE AND ONE-HALF INCHES ON ORIGINAL

**MISCELLANEOUS SMALL BACKFLOW INSTALLATIONS, PHASE XV**  
STANDARD DETAILS III

DRAWN BY: D. MILLER 9/19/16  
CHECKED BY: ZACHARY D. HILLS 9/19/16  
RECOMMENDED BY: CHRISTOPHER M. LUQUETTE  
ACCEPTED BY: RYAN C. PEARSON



CONTRACT NUMBER  
**C1467**  
DRAWING NUMBER CD 3  
SHEET 14 OF 14