

NOTES FOR DRAWING CDD-LP-220B – METER INSTALLATIONS ON PRIVATE PROPERTY:

- A. SFPUC SERVICE LATERAL PIPE WILL TERMINATE ONE (1) FOOT INSIDE THE CURB LINE. THE CUSTOMER SHALL BE RESPONSIBLE FOR INSTALLATION, OWNERSHIP AND MAINTENANCE OF ALL HOUSE PIPE FROM THIS POINT, UP TO, AND DOWNSTREAM OF, BUT NOT INCLUDING, THE COMPOUND WATER METER ASSEMBLY. THE CUSTOMER SHALL BE RESPONSIBLE FOR MAKING THE CONNECTION TO THE FLANGE LEFT BY THE DEPARTMENT AT THE CURB. THE DEPARTMENT SHALL NOT BE LIABLE FOR ANY FAILURES THAT OCCUR AT THE POINT OF CONNECTION BETWEEN THE DEPARTMENT-OWNED PIPE AND THE CUSTOMER-OWNED PIPE.
- B. DEPARTMENT WILL INSTALL, OWN AND MAINTAIN THE WATER METER ASSEMBLY.
- C. THE SIZE OF THE WATER METER ASSEMBLY SHALL MATCH THE SIZE APPROVED BY THE SFPUC NEW INSTALLATIONS GROUP, AS CALCULATED BY BUILDING FIXTURE COUNT. THE SIZE OF THE LATERAL PIPE SHALL NOT BE REDUCED OR SPLIT UPSTREAM OF THE WATER METER ASSEMBLY.
- D. THE BOTTOM OF THE PIPE FLANGES AT EITHER SIDE OF THE METER ASSEMBLY MUST BE A MINIMUM OF ONE (1) FOOT AND MAXIMUM OF THREE (3) FEET ABOVE THE FINISHED FLOOR.
- E. A MINIMUM OF THREE (3) FEET OF CLEAR SPACE MUST BE PRESENT ABOVE THE METER ASSEMBLY TO ACCOMMODATE INSTALLATION AND MAINTENANCE OF THE METER ASSEMBLY.
- F. THE MINIMUM FLOOR-TO-CEILING HEIGHT OF THE ROOM IN WHICH THE DEPARTMENT METER IS INSTALLED SHALL BE NINE (9) FEET.
- G. METERS SHALL BE SET BY THE DEPARTMENT IN A HORIZONTAL ORIENTATION ONLY. THE CUSTOMER SHALL BE RESPONSIBLE FOR PROVIDING STRAIGHT SECTIONS OF PIPE A MINIMUM OF TWENTY-FOUR (24) INCHES UPSTREAM AND DOWNSTREAM OF THE METER ASSEMBLY.
- H. THE METER ASSEMBLY SHALL BE SET SUCH THAT THERE IS A MINIMUM OF ONE (1) FOOT OF CLEARANCE BETWEEN THE ASSEMBLY AND ANY WALLS OR OTHER OBSTRUCTIONS.
- I. COMPOUND METER ASSEMBLY MUST BE ACCESSIBLE TO DEPARTMENT PERSONNEL AT ALL TIMES. METER ROOM MUST BE ACCESSIBLE VIA FREIGHT ELEVATOR OR ADA RAMP THAT CAN ACCOMMODATE A 4-FOOT BY 6-FOOT MAINTENANCE CART. FOUR (4) FEET OF CLEAR, LEVEL FLOOR SPACE SHALL BE PRESENT BETWEEN THE METER ASSEMBLY AND ANY OBSTRUCTIONS TO ALLOW FOR MAINTENANCE ACTIVITIES.
- J. ONE (1) ELECTRICAL CONDUIT WITH A MINIMUM DIAMETER OF THREE-QUARTERS ($\frac{3}{4}$) OF AN INCH MUST BE INSTALLED BY THE CUSTOMER TO ACCOMMODATE (AN) AMI TRANSMITTER WIRE(S) FOR EACH METER INSTALLED. THE CONDUIT SHALL NOT RUN FOR MORE THAN FOUR HUNDRED FIFTY (450) FEET FROM THE METER ASSEMBLY TO THE PROPOSED TRANSMITTER LOCATION. THE CONDUIT SHALL NOT BE SHARED WITH ANY OTHER ELECTRICAL WIRING OR COMPONENTS. THE CONDUIT AND TRANSMITTER PLACEMENT SHALL BE APPROVED BY THE DEPARTMENT. THE CONDUIT SHALL TERMINATE WITH A 4-INCH JUNCTION BOX AT EITHER END OF THE CONDUIT. THE CUSTOMER IS RESPONSIBLE FOR MAINTENANCE OF THE CONDUIT AND JUNCTION BOX.
- K. THE WIRING FOR THE AMI TRANSMITTER SHALL BE PROVIDED AND PULLED BY THE CUSTOMER. 5- FEET EXCESS WIRING SHALL BE LEFT BY THE CUSTOMER AT EITHER END OF THE CONDUIT TO ALLOW FOR CONNECTION TO THE COMPOUND METER AND AMI TRANSMITTER. WIRING SHALL BE WEST PENN WIRE 230 OR APPROVED EQUAL. WIRE SHALL BE 3 CONDUCTOR, 22 AWG NON-SHIEDED CABLE. WIRE SHALL HAVE A 300V RATING, BE TEMPERATURE RATED FROM -20°C TO +60°C, AND BE UV-RESISTANT. CONDUCTORS SHALL BE SOLID TINNED COPPER WITH 0.008-INCH THICK PVC INSULATION AND BE COLOR CODED RED, BLACK, AND WHITE. TWO SETS OF CONDUCTORS ARE REQUIRED FOR EACH COMPOUND ($\geq 3"$ IN SIZE) METER ASSEMBLY INSTALLED.
- L. THE AMI TRANSMITTER SHALL BE MOUNTED IN AN ABOVE GRADE UTILITY ROOM THAT HAS AN EXTERIOR WALL OR ON THE FACADE OF THE BUILDING. THE TRANSMITTER MUST BE ACCESSIBLE FROM AN 8-FOOT A-FRAME LADDER FOR MAINTENANCE BY THE DEPARTMENT. THE TRANSMITTER SHALL BE PLACED A MINIMUM OF SIX (6) INCHES FROM ANY CONDUIT OR METALLIC PIPING AND A MINIMUM OF THREE (3) FEET FROM ANY LARGE METALLIC OBJECTS (I.E. HVAC DUCTING, STEEL DECKING, ETC.).
- M. IN CASES WHERE MULTIPLE AMI TRANSMITTERS WILL BE INSTALLED, THE TRANSMITTERS SHALL HAVE A MINIMUM EDGE-TO-EDGE SPACING OF SIX (6) INCHES.
- N. CUSTOMERS REQUESTING INSTALLATION OF A WATER METER ON PRIVATE PROPERTY MUST FORMALLY REQUEST SUCH AN INSTALLATION BY EMAILING CDDENGINEERING@SF.WATER.ORG. INSTALLATION OF METERS ON PRIVATE PROPERTY WILL ONLY BE ALLOWED WHEN A STANDARD INSTALLATION OF METER IN SIDEWALK IS NOT POSSIBLE DUE TO NO SIDEWALK BEING PRESENT OR DUE TO UTILITY CONFLICTS. INSTALLATIONS OF METERS ON PRIVATE PROPERTY WILL NOT BE APPROVED FOR AESTHETIC REASONS ALONE.
- O. FOR ADDITIONAL REQUIREMENTS, PLEASE REFER TO THE DOCUMENT "SFPUC RULES AND REGULATIONS GOVERNING WATER SERVICE TO CUSTOMERS, SECTION A, RULE 2, AND SECTION A, RULE 7.



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WATER ENTERPRISE – CITY DISTRIBUTION DIVISION STANDARD PLANS

**WATER SERVICES
SFPUC NEW METER INSTALLATIONS
ON PRIVATE PROPERTY – NOTES**

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