
Date: November 10, 2020

Item Number: _____
Resolution Number: _____

☐ 4/5 Vote Required

Resolution Of The Board Of Directors Of The Sonoma County Water Agency, To Approve the 2020 Update to the Sonoma County Water Agency Design and Construction Standards for Sanitation Facilities

Whereas, the Board of Directors of the Sonoma County Water Agency ("Sonoma Water"), on March 3, 2009 adopted the Design and Construction Standards for Sanitation Facilities ("Standards"); and

Whereas, standards for the design and construction of sanitation facilities are necessary for new construction and repair of sanitation facilities operated by Sonoma Water; and

Whereas, revisions to the Standards are necessary for conformance with the requirements of the State Water Resources Control Board Division of Drinking Water.

Now, Therefore, Be It Resolved that the Board of Directors hereby finds, determines, certifies, and declares as follows:

1. The above recitals are true and correct.
2. This action is exempt from CEQA pursuant to CEQA Guidelines section 15061(b)(3).
3. The 2020 update to Design and Construction Standards for Sanitation Facilities, attached as Exhibit A, are hereby approved.

Directors:

Rabbitt: Zane: Gore: Hopkins: Gorin:

Ayes: Noes: Absent: Abstain:

So Ordered.

Exhibit A

Update to Design and Construction Standards for Sanitation Facilities

- Underline and Strikeout text
- Substitute Drawing Number 110

Sonoma County Water Agency

**DESIGN AND CONSTRUCTION STANDARDS
FOR SANITATION FACILITIES**

2009 Update
Approved: February 3, 2009
Amended: November 10, 2020

Sonoma County Water Agency
404 Aviation Boulevard
Santa Rosa, CA 95403
707-526-5370

Specified paragraph of Subsection 4.2 **Sewer Pipes** is amended to read:

- H. **Pipe Clearance** - All sewer pipes and sanitation structures shall be designed and constructed to have a minimum 12-inch vertical clearance from all other utilities and/or improvements, unless otherwise approved by the Agency. No building, reservoir, or any other structure or construction shall be constructed over or within 7.5 feet horizontally of sewer mains or their manholes, unless otherwise approved by the Agency or District. Horizontal and vertical pipe clearances between sewer pipes and potable water mains shall be in accordance with the current requirements of ~~State of California Title 22, Code of Regulations of Health and Safety Code, and with the California Department of Health Service "Guidance Criteria for the Separation of Water Mains and Sanitary Sewers."~~ California Code of Regulations Title 22 Chapter 16 California Waterworks Standards §64572 Water Main Separation or with concurrence of the water pipeline owner under the provisions of Waterworks Standards §64551.100 Waivers and Alternatives. Horizontal clearance of sewer mains and their manholes from storm drains and gas mains shall be a minimum of five (5) feet horizontal clearance of sewer mains and their manholes from other utilities, such as electric, cable, etc., shall be a minimum of four (4) feet.

Specified paragraphs of Subsection 9.2 **Approved Materials and Manufacturers** are amended to read:

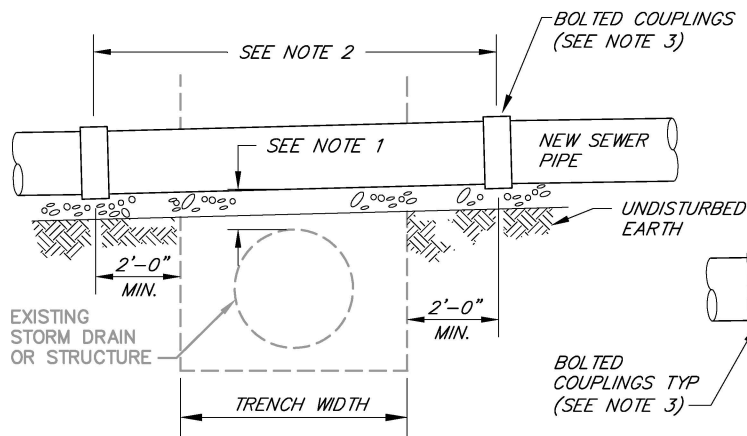
- A. **Standard Drawings 100 (A, B, C), 101, 103, ~~109, 110, 121~~**
1. Bolted Couplings conforming to AWWA C-219:
- a. Wrap all couplings with minimum of two layers of coal tar-based tape.
- b. Acceptable manufacturers:
- | | |
|-----------------------|--|
| APAC | 300 Series |
| Dresser | 38 or 623501 Series |
| Powerseal | 3501441 Series |
| Rockwell | 501 Series |
| Romac | 501441 Series |
| Smith-Blair | 441 Series <u>Style 253</u> |
| <u>Ford Meter Box</u> | <u>FC2 Series</u> |
| Or Approved Equal | |
- L. **Standard Drawings ~~109, 110, 111~~**
1. Polyethylene Film:
- a. Tube form
- b. Conforming to AWWA/ANSI C-105/ A21.5

SECTION 10 - STANDARD DRAWING LIST is amended to read:

Notes on a drawing apply to the entire drawing, unless stated otherwise.

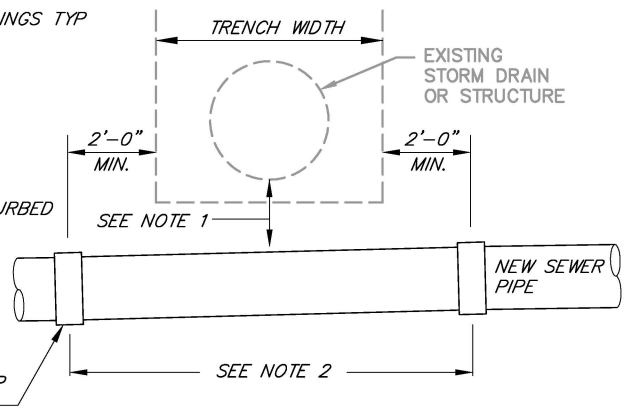
Number	Title	Date Approved
100-A	Sanitary Sewer Standard Manhole	
100-B	Sanitary Sewer Standard Manhole on Sloping Ground	
100-C	Sanitary Sewer Shallow Manhole	
101	Sanitary Sewer Drop Manhole	
102	Sanitary Sewer Manhole Reducer Slab	
103	Sanitary Sewer Drop Manhole Slide	
104	Sanitary Sewer Standard Manhole Frame and Cover	
105	Sanitary Sewer Alternative Mainline Cleanout	
106	Sanitary Sewer Mainline Cleanout	
107	Sanitary Sewer Standard Trench Details	
108	Sanitary Sewer Imported Materials	
109	Sanitary Sewer Pipe Crossings Sewer Pipe and Water Main <u>NOT USED</u>	
110	Sanitary Sewer Miscellaneous Pipe Crossings	
111	Sanitary Sewer Valve Installation Detail	
112	Sanitary Sewer Abandoned Manhole Detail	
113	Sanitary Sewer Abandoned Pipe Detail	
114	Sanitary Sewer Plastic Pipe Deflection Mandrel	
115	Sanitary Sewer Water Test - Allowable Leakage	
116	Sanitary Sewer Air Test - Allowable Leakage	
117-A	Sanitary Sewer Single Stage Grease Interceptor	
117-B	Sanitary Sewer Two Stage Grease Interceptor	
118-A	Sanitary Sewer Three Stage Sand & Grease Interceptor	
118-B	Sanitary Sewer Three Stage Grease Interceptor	
119	Sanitary Sewer Monitoring/Sampling Box	
120-A	Sanitary Sewer Sampling Box	
120-B	Sanitary Sewer Sampling Box	
120-C1	Sanitary Sewer Sampling Box Processed and Domestic Waste	

Number	Title	Date Approved
120-C2	Sanitary Sewer Four Pipe Sampling Box Processed and Domestic Waste	
120-D1	Trash Enclosure	
120-D2	Sanitary Sewer Trash Enclosure with Sewer Connection	
120-E	Sanitary Sewer Alternative Sampling Box	
120-F	Sanitary Sewer Sampling Box Building Notes	
121	Sanitary Sewer 4 Inch and 6 Inch Service Lateral and Cleanout	
122	Sanitary Sewer Typical Building Sewer Connection Details (For Connection to New Building)	
123	Sanitary Sewer Building Cleanout Detail at Building (For Building Where Septic Tank is to be Abandoned)	
124	Sanitary Sewer Recreational Vehicle Disposal Facility	
125	Sanitary Sewer Mobile Home Connection	
126	Sanitary Sewer Mobile Home Sewer Connection with Backflow	
127	Sanitary Sewer Backflow Check Valve Installation Detail	
128	Sanitary Sewer Discharge for Private Force Main	
129	Sanitary Sewer Private Individual Pumping System Detail	
130	Sanitary Sewer Building Cleanout Detail at Building	
131	Sanitary Sewer Building Cleanout Detail at Building (Flood Plain Areas)	
132	Sanitary Sewer Traffic Area Building Cleanout Detail	
133	Sanitary Sewer Building Sewer Trench Detail	
134	Sanitary Sewer Trench Dams	
135	Sanitary Sewer Redwood Check Dam	
136	Sanitary Sewer Above Ground Building Sewer	
137	Sanitary Sewer Typical Casing Detail	
138	Sanitary Sewer Sanitary Area Flow Characteristics	



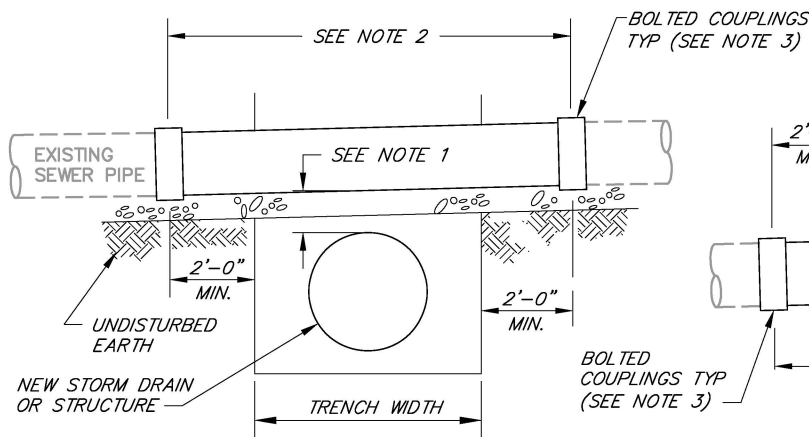
**INSTALLATION SEWER OVER EXISTING
PIPE OR STRUCTURE**

TYPE A



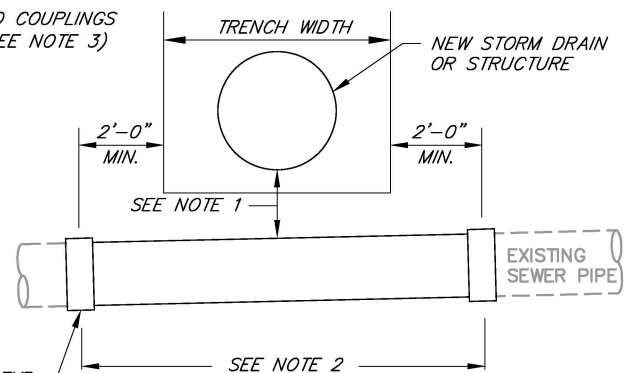
**INSTALLATION SEWER UNDER EXISTING
PIPE OR STRUCTURE**

TYPE B



**INSTALLATION OF PIPE OR STRUCTURE
UNDER EXISTING SEWER**

TYPE C

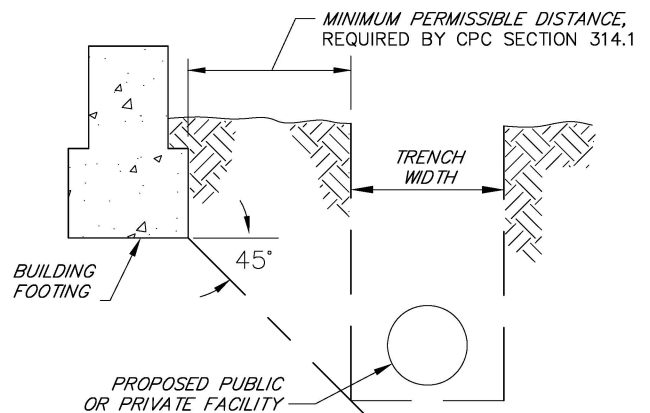


**INSTALLATION OF PIPE OR STRUCTURE
OVER EXISTING SEWER**

TYPE D

NOTES

1. MINIMUM VERTICAL CLEARANCE OF 12 INCHES BETWEEN PIPES IS REQUIRED UNLESS OTHERWISE APPROVED BY THE AGENCY. FOR PIPE CROSSINGS APPROVED WITH LESS THAN 12 INCHES VERTICAL CLEARANCE, FILL SPACE BETWEEN PIPES WITH CONTROLLED DENSITY FILL.
2. INSTALL AWWA C-900 DR-14 PVC PIPE WITH NO JOINTS AND CONTROLLED DENSITY FILL AS SPECIFIED IN DRAWING NUMBER 108. ANY INSTALLATION WITH JOINTS LESS THAN THE MINIMUM DISTANCE INDICATED BE INSTALLED IN A STEEL CASING.
3. SEE APPROVED MATERIALS LIST.
4. THIS STANDARD APPLIES TO PIPES UP TO AND INCLUDING 16 INCHES DIAMETER. ALL CROSSINGS INVOLVING LARGER PIPES SHALL BE APPROVED BY THE AGENCY.
5. SEE SECTION 4.2H OF THE AGENCY STANDARDS FOR SEWER PIPE CROSSING WATER MAIN.



**DETAIL OF BUILDING SETBACK FROM
UNDERGROUND UTILITY**

SCALE: NONE

REVISED:
09/22/20

SANITARY SEWER - MISCELLANEOUS PIPE CROSSINGS

DATE: 02/03/09

REVIEWED BY:

APPROVED:

SONOMA COUNTY WATER AGENCY

DRAWING
NUMBER:

110