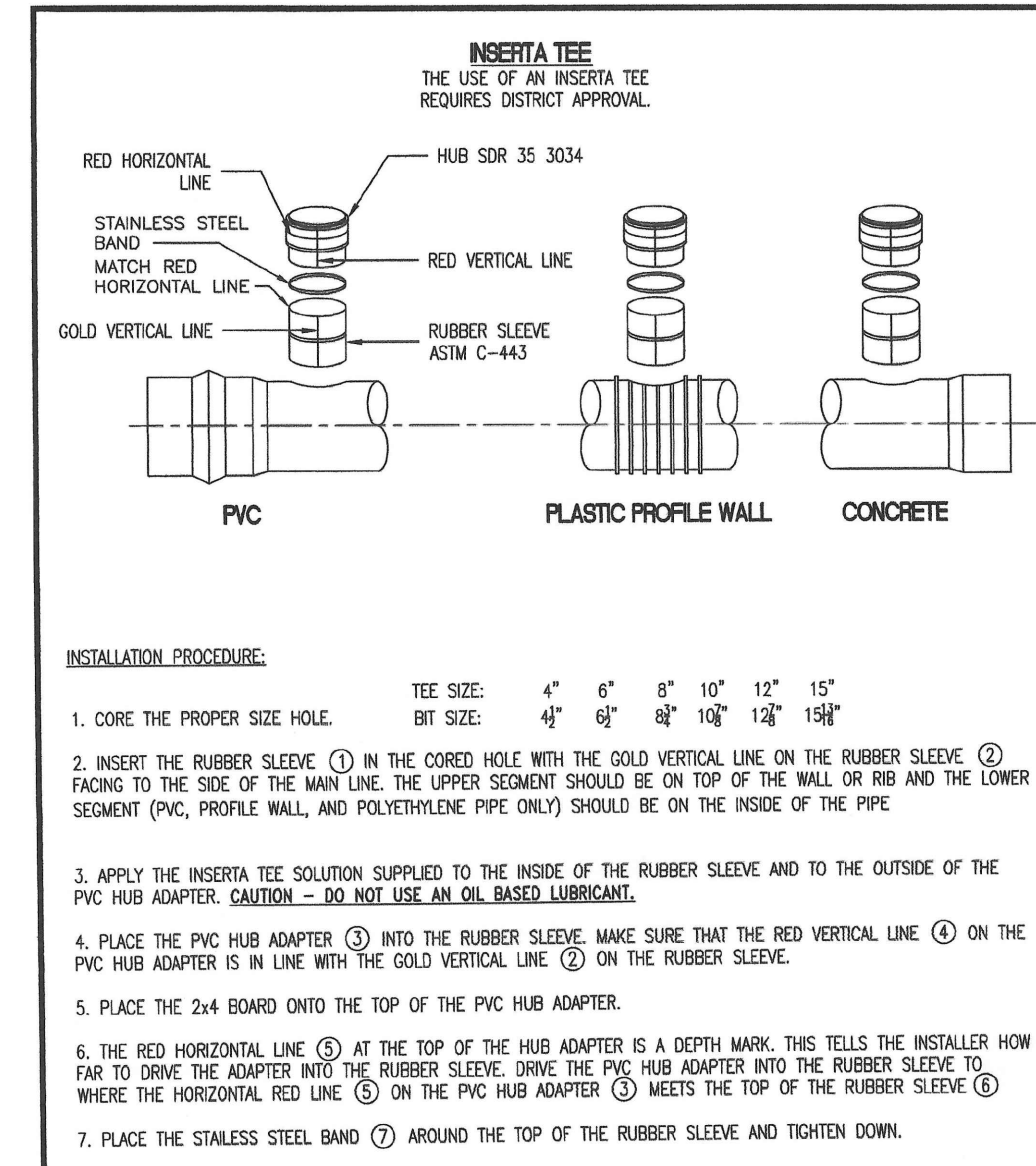


Duckett Creek Sanitary District

8" AND LARGER CONNECTION TO PLASTIC MAIN

Rev. By: BSM App. By: KA Date: DEC. 2015

Detail No. 20A

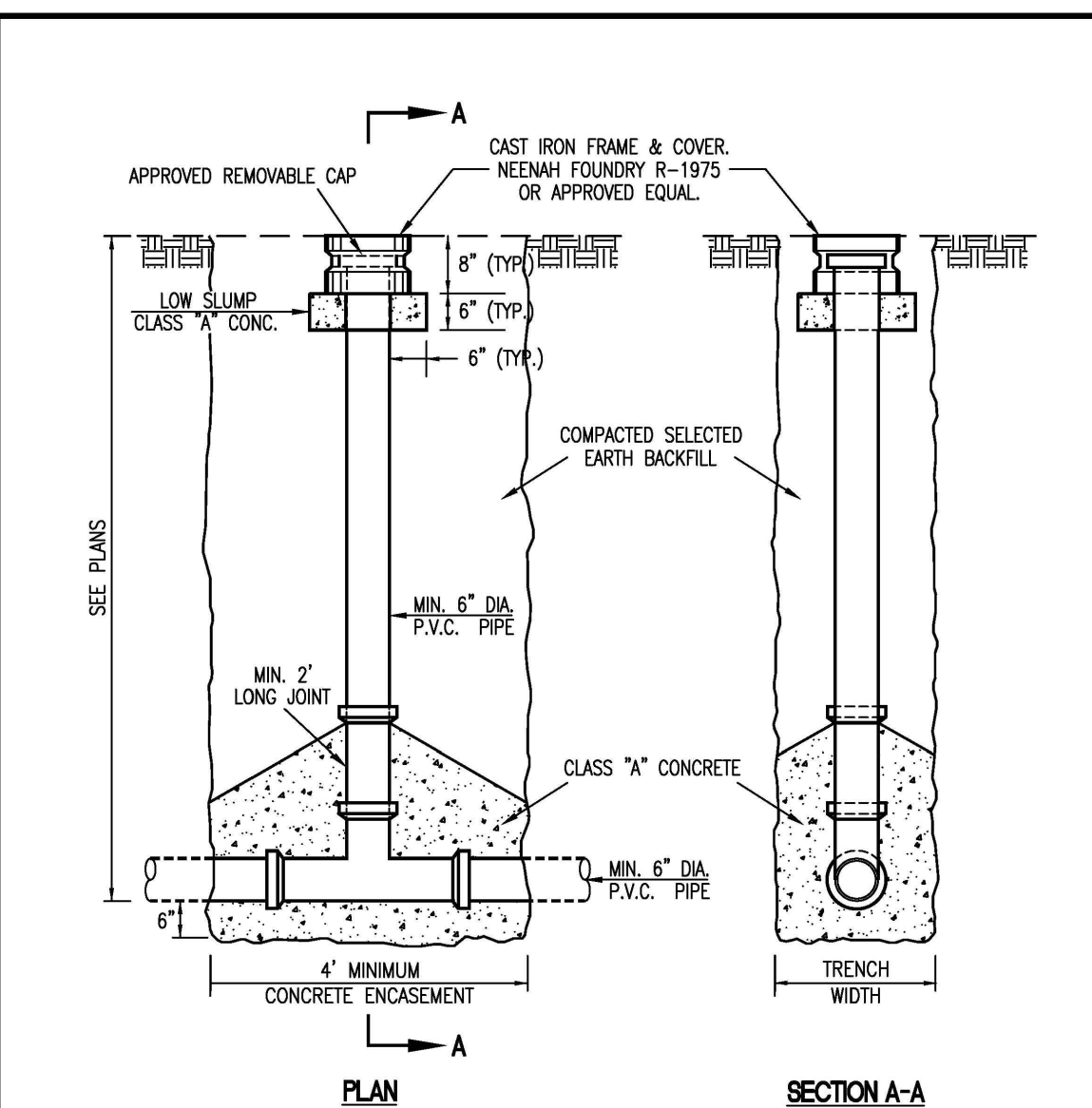


Duckett Creek Sanitary District

INSERTA TEE DETAILS AND SPECIFICATIONS

Rev. By: BSM App. By: KA Date: DEC. 2015

Detail No. 20B



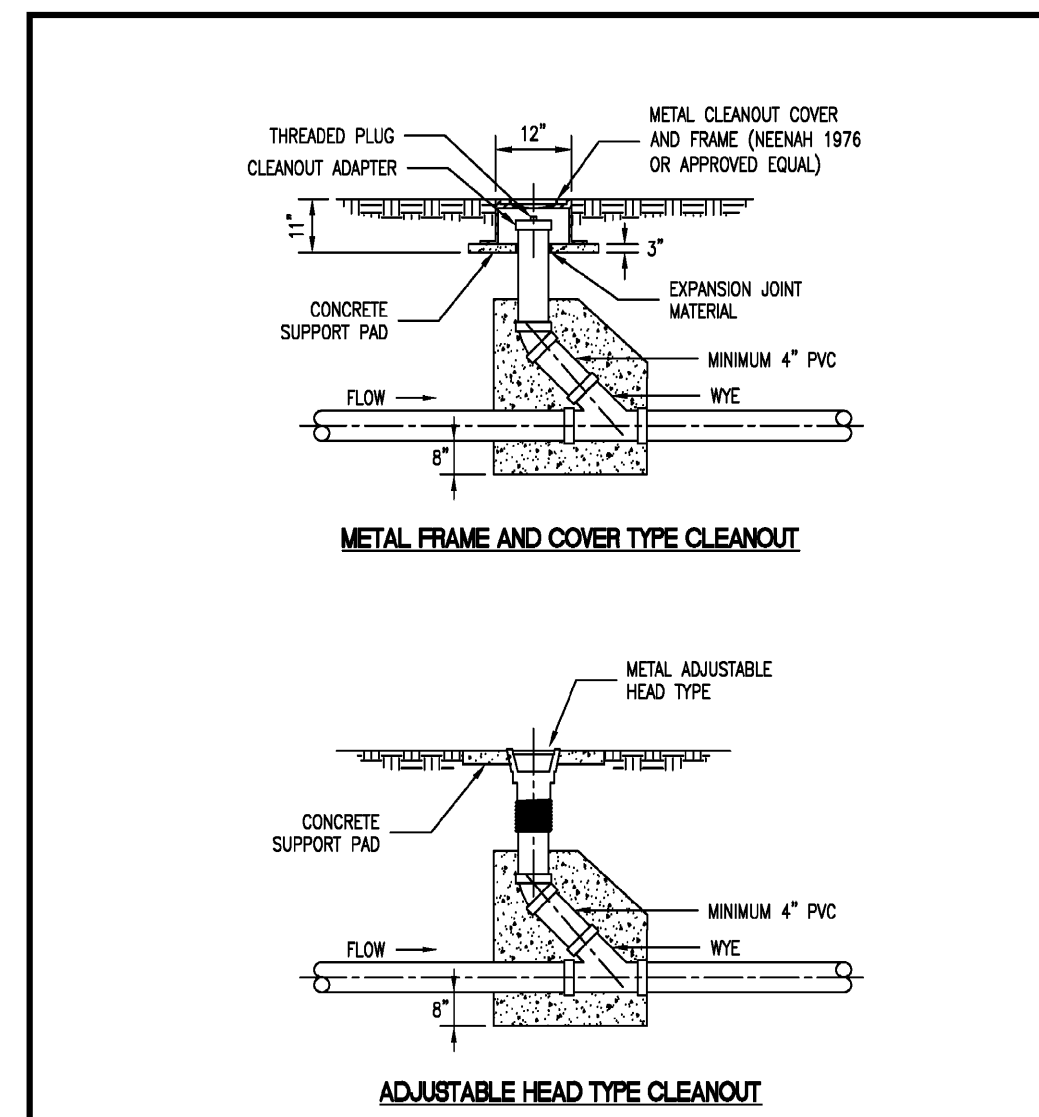
Duckett Creek Sanitary District

SAMPLING TEE

Rev. By: MSM App. By: LRK Date: APRIL 2022

Detail No. 31

- DUCKETT CREEK SANITARY DISTRICT CONSTRUCTION NOTES**
- Underground utilities have been plotted from available information and therefore location shall be considered approximate only. The verification of the location of all underground utilities, either shown or not shown on these plans, shall be the responsibility of the contractor and shall be located prior to any grading or construction of improvements.
 - Gas, water and other underground utilities shall not conflict with the depth or horizontal location of existing or proposed sanitary and storm sewers, including house laterals.
 - All existing site improvements disturbed, damaged or destroyed shall be repaired or replaced to closely match preconstruction conditions.
 - All fill including places under proposed storm and sanitary sewer lines and paved areas including trench backfills within and off the road right-of-way shall be compacted to 90 percent of maximum density as determined by the Modified AASHTO T-180 Compaction Test (ASTM D1557). All tests shall be verified by a Soils Engineer concurrent with grading and backfilling operations. The compacted fill shall be free of rutting and shall be non-yielding and non-pumping during proofrolling and compaction.
 - The contractor shall prevent all storm, surface water, mud and construction debris from entering the existing sanitary sewer system. The contractor will be required to install a brick bulkhead on the downstream side of the first new manhole constructed when connecting into existing sewers.
 - All sanitary sewer flowlines and tops built without elevations furnished by the engineer will be the responsibility of the sewer contractor.
 - It is the responsibility of the contractor to adjust all sanitary sewer manholes (that are affected by the development) to finish grade.
 - Easements shall be provided for all sanitary sewers, storm sewers and all utilities on the record plat.
 - All sanitary sewer construction and materials shall conform to the current construction standards of the Duckett Creek Sanitary District.
 - The Duckett Creek Sanitary District shall be notified at least 48 hours prior to construction for coordination of inspection.
 - All sanitary sewer building connections shall be designed so that the minimum vertical distance from the low point of the basement to the flowline of a sanitary sewer at the corresponding building connection shall not be less than the diameter of the pipe plus the vertical distance of 2 1/2 feet.
 - All sanitary sewer manholes shall be watertight in accordance with Missouri Dept. of Natural Resources specification 10 CSR 20-8.120(6)(F) 1.
 - All PVC sanitary sewer pipe shall conform to the requirements of ASTM D-3034 Standard Specification for PSM Polyvinyl Chloride Sewer Pipe, SDR-35 or equal, with "clean" 1/2 inch to 1 inch granular stone bedding uniformly graded. This bedding shall extend from 4 inches below the pipe to springline of pipe. Immediate backfill over pipe shall consist of same size "clean" or "minus" stone from springline of pipe to 6 inches above the top of pipe. Final backfill material shall be of suitable material removed from excavation except as other material is specified. Debris, frozen material, large rocks or stones, or other unstable materials shall not be used within 2 feet from top of pipe.
 - All sanitary and storm sewer trench backfills shall be water jetted. Granular backfill will be used under pavement areas.
 - All pipes shall have positive drainage through manholes. Flat invert structures not allowed.
 - Epoxy Coating shall be used on all sanitary sewer manholes that receive pressurized mains.
 - All creek crossings shall be lined with rip-rap as directed by District inspectors.
 - Brick shall not be used on sanitary sewer manholes.
 - Existing sanitary sewer service shall not be interrupted.
 - Maintain access to existing residential driveways and streets.
 - Pre-manufactured adapters shall be used at all PVC to DIP connections. Rubber boot / Mission-type couplings will not be allowed.
 - Any permits, licenses, easements, or approvals required to work on public or private properties or roadways are the responsibility of the developer.
 - Type N Lock-Type Cover and Locking Device (Lock-Lug) shall be used where lock-type covers are required.
 - All sanitary sewer system work shall be conducted under the inspection of a representative of the District. All work may not require inspection but the District's representative may designate specific areas that must be inspected before the work is backfilled. All testing must be witnessed by the District's Inspector and the Contractor shall furnish all testing equipment as approved by the District. Testing shall include:
 - A mandrel test of all gravity sewers using a mandrel with a diameter that has a diameter 95% of the inside pipe diameter. If the mandrel test fails on any section of pipe, that section of pipe shall be uncovered and replaced. No expansion devices will be allowed to be used to "force" the pipe that is deformed back into round. Any string lines used in mandrel testing shall be removed after testing is completed. Deflection testing cannot be conducted prior to 30 days after final backfill.
 - An air pressure test of all gravity sewers to a pressure of 5 PSI with no observed drop in pressure during a test period of 5 minutes.
 - A vacuum test of all manholes for a period of 1 minute and the vacuum shall be 10" of mercury and may not drop below 9" of mercury at the end of the 1 minute test.
- Revised October 2016

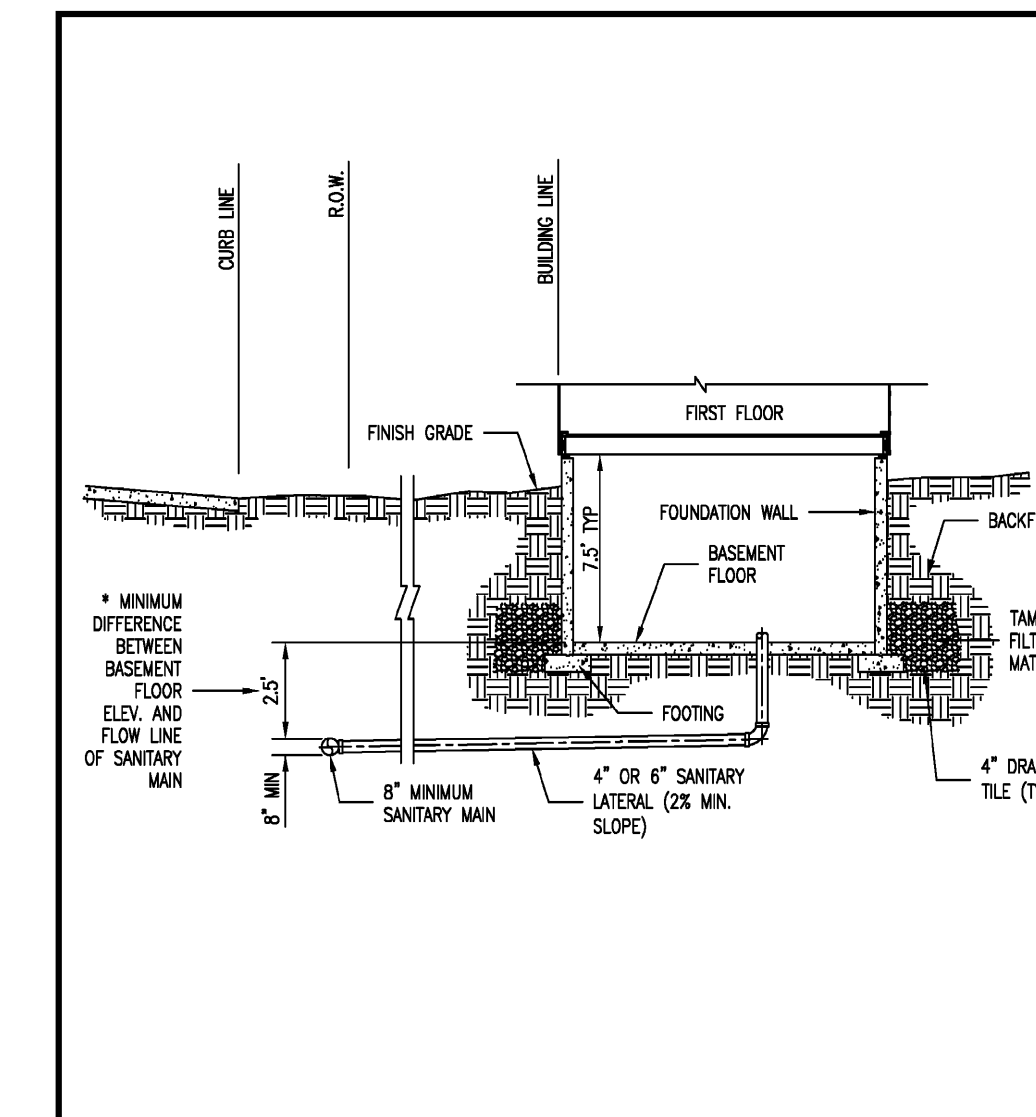


Duckett Creek Sanitary District

TYPICAL SEWER LATERAL CLEANOUT DETAIL

Rev. By: BSM App. By: KJA Date: DEC. 2015

Detail No. 25

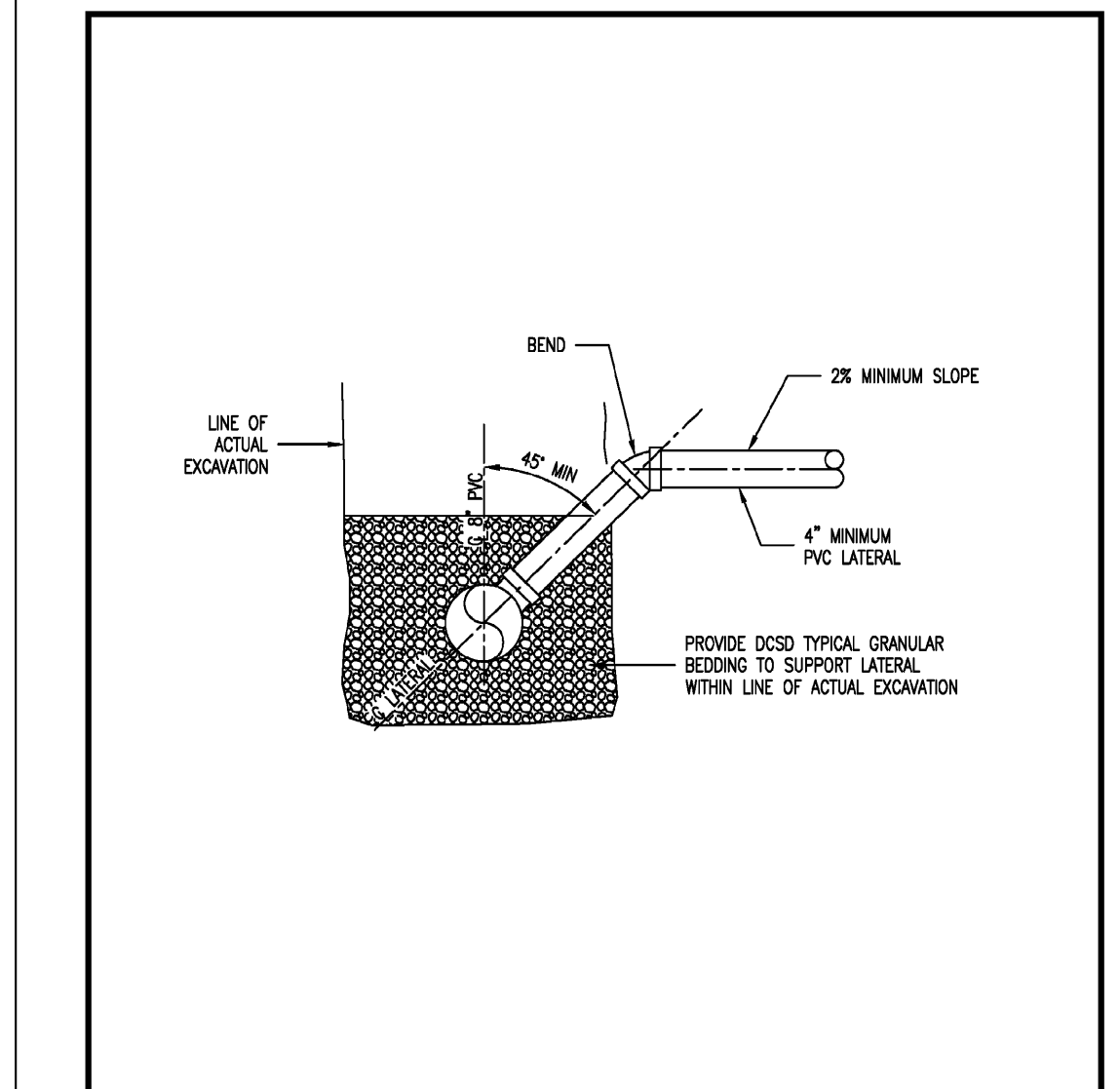


Duckett Creek Sanitary District

TYPICAL SANITARY SEWER LATERAL PROFILE

Rev. By: BSM App. By: KJA Date: DEC. 2015

Detail No. 26



Duckett Creek Sanitary District

SANITARY SEWER LATERAL RISER DETAIL

Rev. By: BSM App. By: KA Date: DEC. 2015

Detail No. 27

PROJECT TITLE:
Lou Fusz Building Additions
Highway K
Of Fallon, MO

ENGINEERING FIRM:
PLANNING SURVEYING
221 Point View Blvd.
St. Charles, MO 63301
636-928-5562
FAX 636-928-1718

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I hereby specify that the documents intended to be authorized by my seal are limited to this sheet, and I hereby disclaim any responsibility for all other Drawings, Specifications, Estimates, Reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural or engineering project or survey.

REFERENCE ONLY

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CIVIL ENGINEER
2007020343
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Authority No. 000655
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REVISIONS

01/18/2024	CITY/UTILITY REVIEW
02/08/2024	CITY COMMENTS

Developer / Owner:
Lou Fusz Properties, LLC
1 Athletic Dr.
Earth City, MO 63045

DETAILS

P+Z No. #23-007755
Approval Date: 08/03/2023
City No. CSP23-000048
Page No. C-12