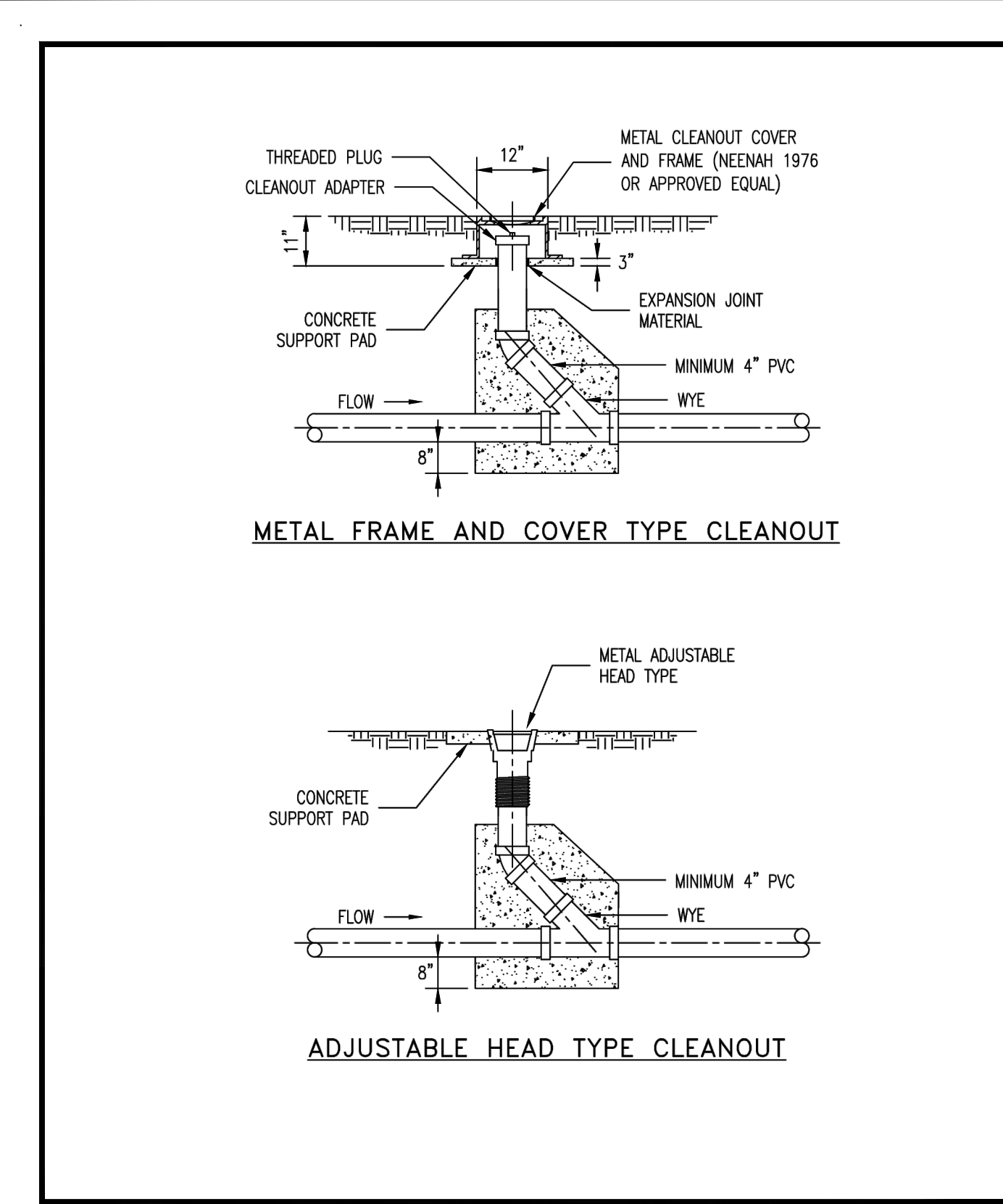


| ISSUE | REMARKS/DATE |
|-------|-------------------------------|
| 1 | 2023-09-28, INITIAL SUBMITTAL |
| 2 | 2024-02-01, CITY COMMENTS |
| 3 | 2024-04-17, CITY COMMENTS |
| 4 | 2024-05-20, FOR APPROVAL |

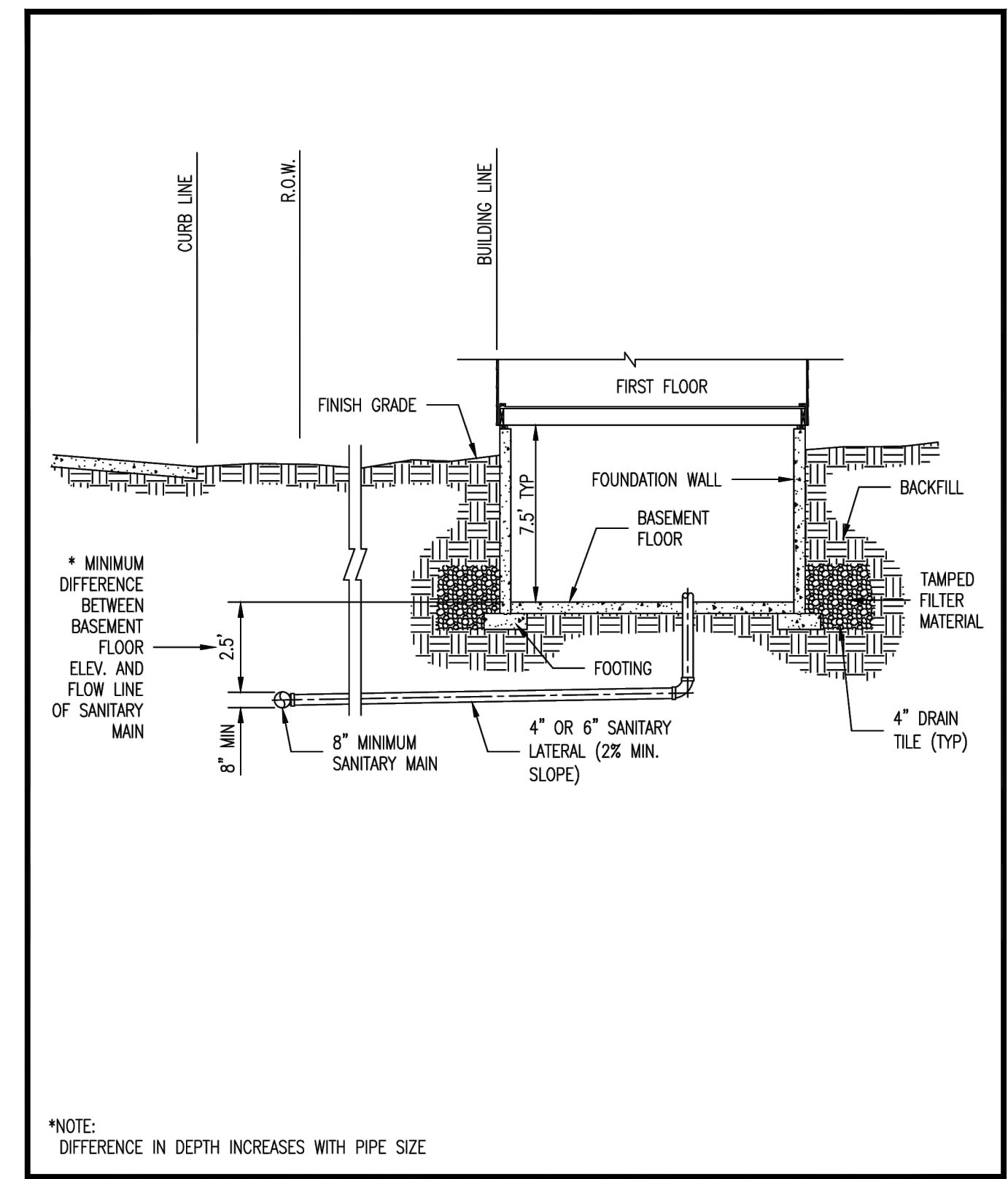


METAL FRAME AND COVER TYPE CLEANOUT

ADJUSTABLE HEAD TYPE CLEANOUT

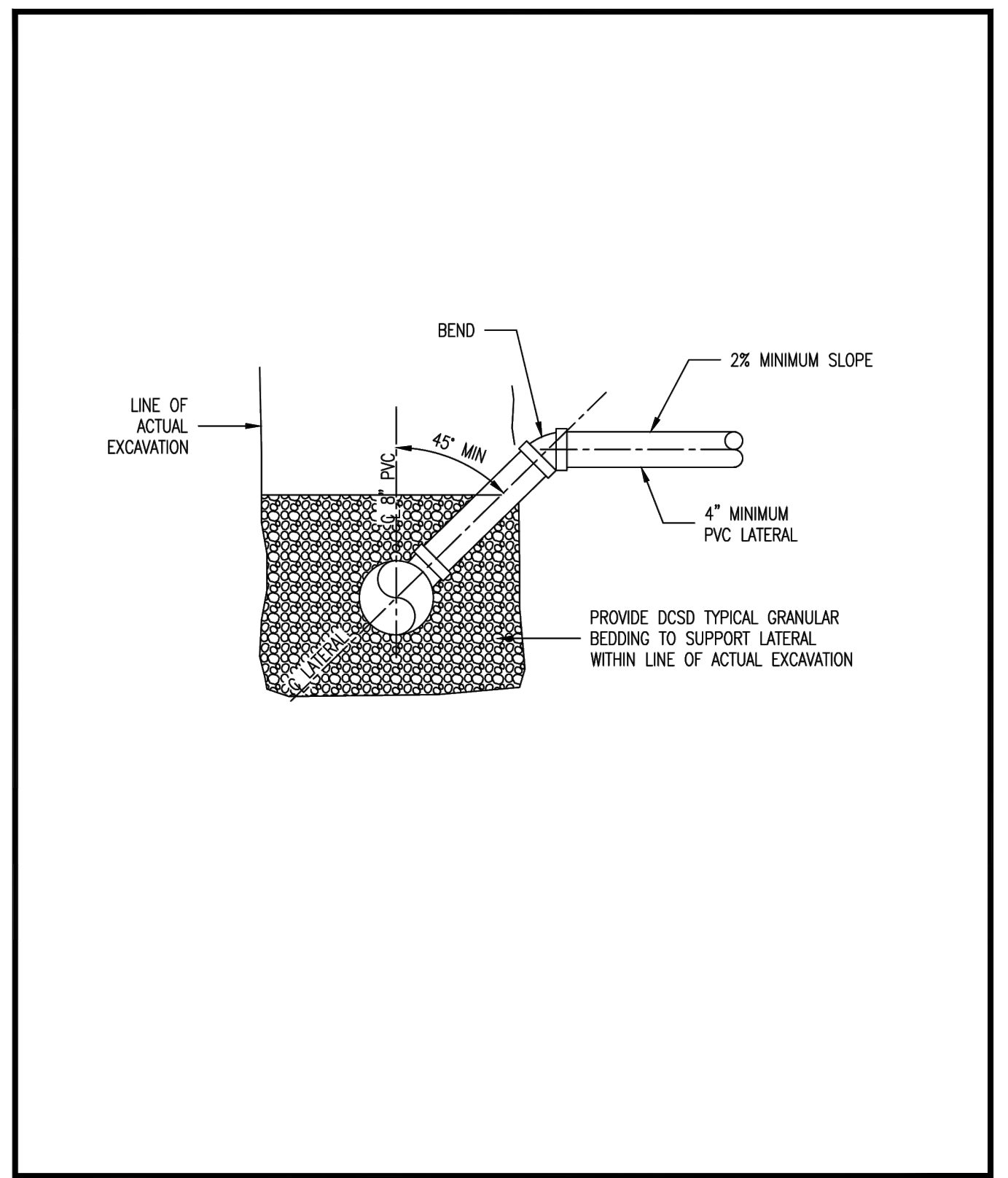
Duckett Creek Sanitary District

| | | | |
|---------------------------------------|--------------|-----------------|---------------|
| TYPICAL SEWER LATERAL CLEANOUT DETAIL | Own By: BSM | App By: KLA | Detail No. 25 |
| | Okd By: MDOB | Date: DEC. 2015 | |



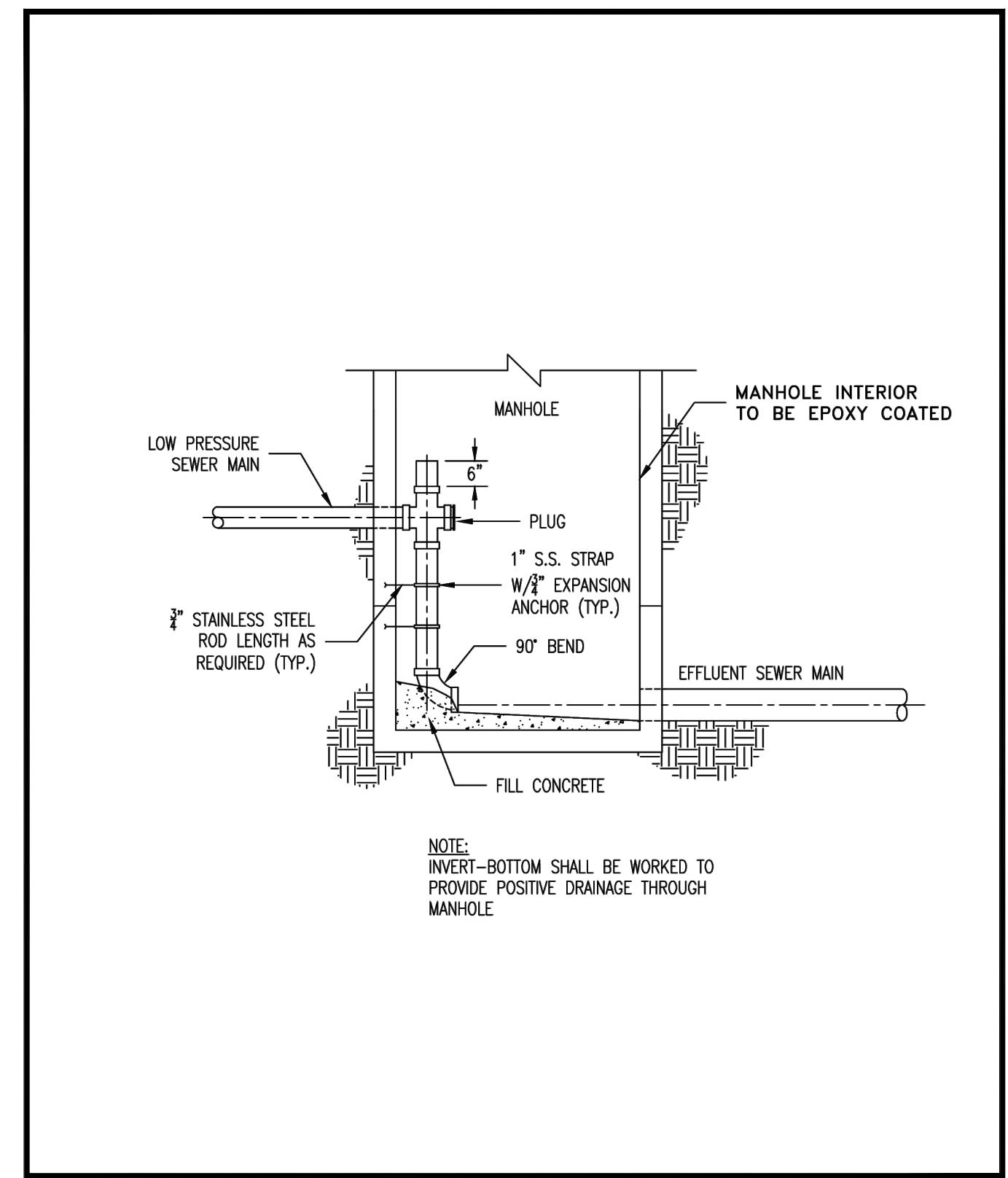
Duckett Creek Sanitary District

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|--|--------------|-----------------|---------------|
| TYPICAL SANITARY SEWER LATERAL PROFILE | Own By: BSM | App By: KLA | Detail No. 26 |
| | Okd By: MDOB | Date: DEC. 2015 | |



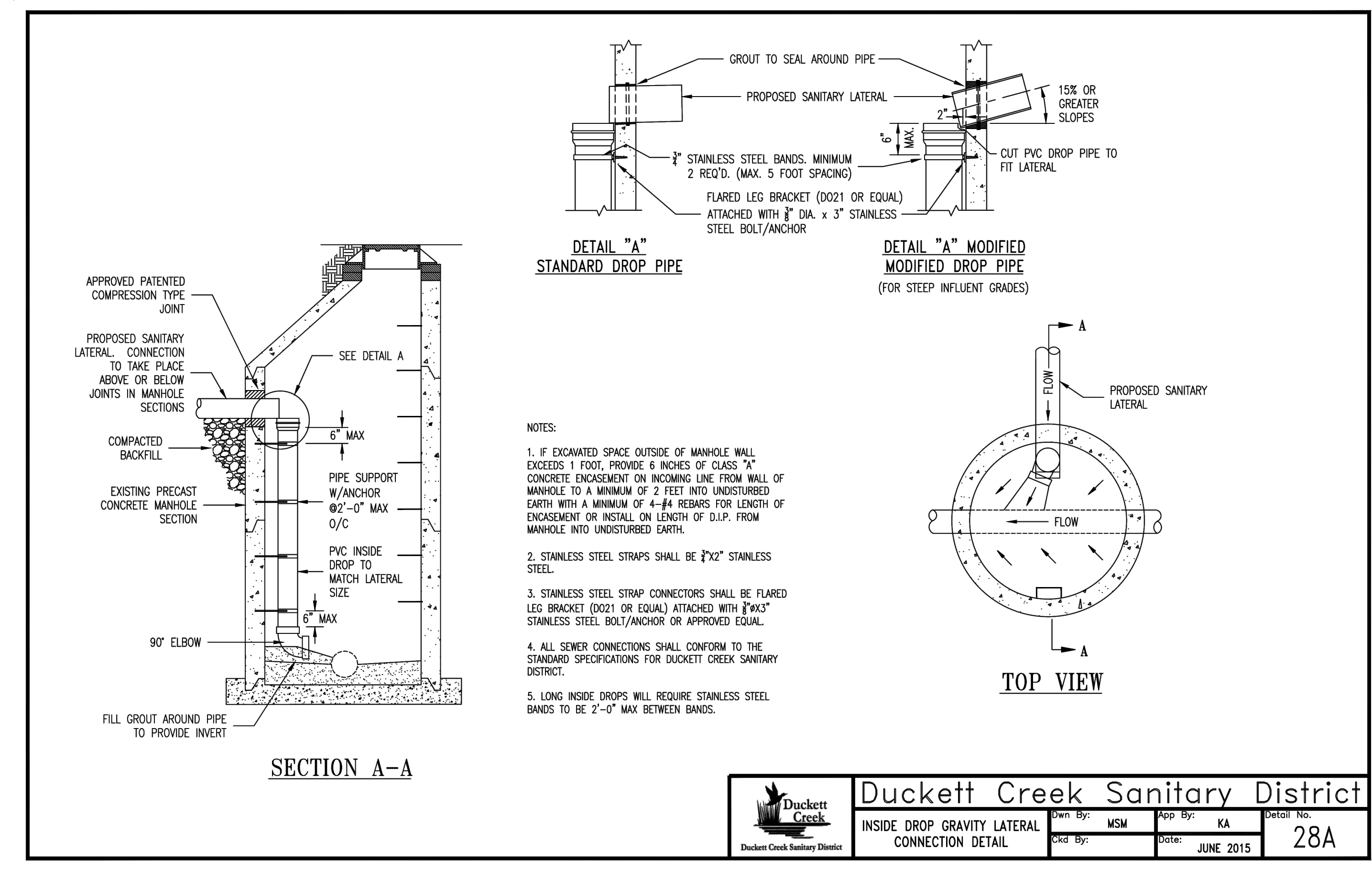
Duckett Creek Sanitary District

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|-------------------------------------|--------------|-----------------|---------------|
| SANITARY SEWER LATERAL RISER DETAIL | Own By: BSM | App By: KA | Detail No. 27 |
| | Okd By: MDOB | Date: DEC. 2015 | |



Duckett Creek Sanitary District

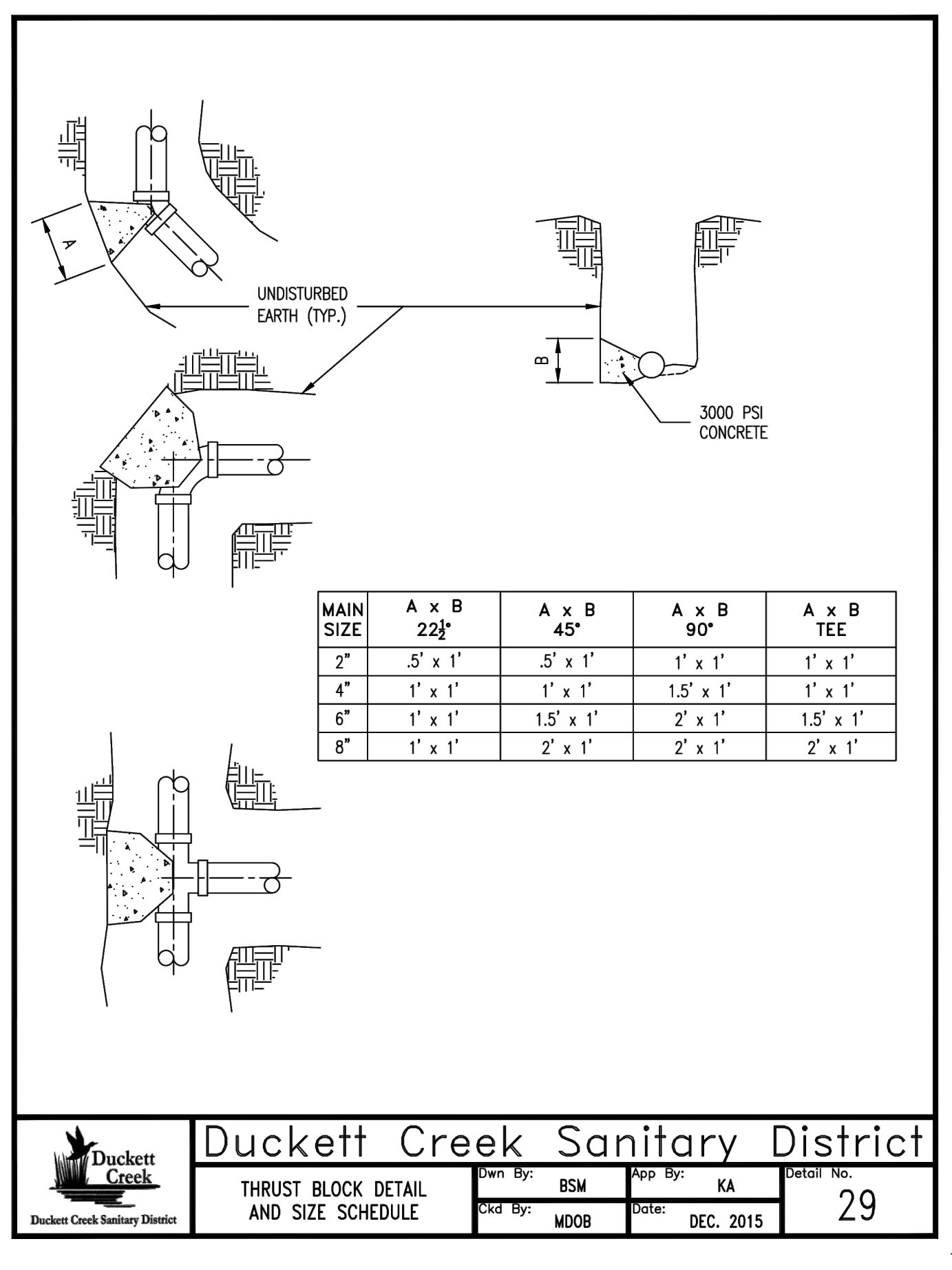
| | | | |
|---|--------------|-----------------|---------------|
| LOW PRESSURE SEWER MAIN CONNECTION AT MANHOLE | Own By: BSM | App By: KA | Detail No. 28 |
| | Okd By: MDOB | Date: DEC. 2015 | |



- NOTES:
- IF EXCAVATED SPACE OUTSIDE OF MANHOLE WALL EXCEEDS 1 FOOT, PROVIDE 6 INCHES OF CLASS "A" CONCRETE ENCASEMENT ON INCOMING LINE FROM WALL OF MANHOLE TO A MINIMUM OF 2 FEET INTO UNDISTURBED EARTH WITH A MINIMUM OF 4#4 REBARS FOR LENGTH OF ENCASEMENT OR INSTALL ON LENGTH OF D.I.P. FROM MANHOLE INTO UNDISTURBED EARTH.
 - STAINLESS STEEL STRAPS SHALL BE 3/8" X 2" STAINLESS STEEL.
 - STAINLESS STEEL STRAP CONNECTORS SHALL BE FLARED LEG BRACKET (D021 OR EQUAL) ATTACHED WITH 3/8" DIA. X 3" STAINLESS STEEL BOLT/ANCHOR OR APPROVED EQUAL.
 - ALL SEWER CONNECTIONS SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR DUCKETT CREEK SANITARY DISTRICT.
 - LONG INSIDE DROPS WILL REQUIRE STAINLESS STEEL BANDS TO BE 2'-0" MAX BETWEEN BANDS.

Duckett Creek Sanitary District

| | | | |
|---|--------------|-----------------|----------------|
| INSIDE DROP GRAVITY LATERAL CONNECTION DETAIL | Own By: MSM | App By: KA | Detail No. 28A |
| | Okd By: MDOB | Date: JUNE 2015 | |



Duckett Creek Sanitary District

| | | | |
|---------------------------------------|--------------|-----------------|---------------|
| THRUST BLOCK DETAIL AND SIZE SCHEDULE | Own By: BSM | App By: KA | Detail No. 29 |
| | Okd By: MDOB | Date: DEC. 2015 | |

LINK-SEAL® MODULAR SEALS INSTALLATION INSTRUCTIONS

LINK-SEAL® Modular Seal - Do's

- Make sure pipe is centered.
- Install the belt with the pressure plates evenly spaced.
- Install the exact number of links indicated in sizing charts.
- Check to make sure pipe is supported properly during backfill operations. **NOTE:** LINK-SEAL® modular seals are not intended to support the weight of the pipe.
- Make sure seal assembly and pipe surfaces are free from dirt.
- For tight fits, use non-polluting liquid detergent to assist installation.

LINK-SEAL® Modular Seal - Don'ts

- Don't install the belt with the pressure plates aimed in irregular directions. (Staggered)
- Don't install LINK-SEAL® modular seals where weld-beads or other irregular surfaces exist without consideration of the sealing requirements.
- Don't torque each bolt completely before moving on to the next.
- Don't use high speed power tools (450 rpm or more).
- Do not use power tools on LINK-SEAL® modular seal/316 stainless steel bolts.
- Don't use grease installing LINK-SEAL® modular seals.

Hand Tools: Review provided chart below. (Tools not provided.) Tools can be purchased from hardware store, auto parts store, or home improvement store.

| LINK-SEAL® Model | Tool Size/Type Req. | Bolt Head Type |
|--------------------------------|---------------------|----------------|
| LS-200, LS-275 | 4mm, Allen | |
| LS-300, LS-315 | 6mm, Allen | |
| LS-325, LS-340, LS-360 | 13mm, Hex | |
| LS-400, LS-410, LS-425, LS-475 | 17mm, Hex | |
| LS-500, LS-525, LS-575 | 19mm, Hex | |
| LS-615 | 30mm, Hex | |
| LS-650 | 19mm, Hex | |

Installation Notes: The LINK-SEAL® modular seal bolt heads are usually recessed below the wall opening or the edge of casing pipe and therefore a socket or offset wrench must be used.

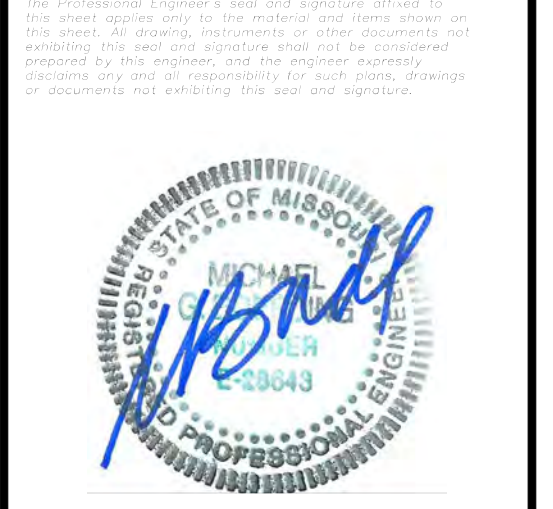
Installation Complete

IF THE SEAL DOESN'T APPEAR TO BE CORRECT USING THE TECHNIQUES PROVIDED, CALL GPT AT 1-800-423-2410.

ALWAYS WEAR PPE WHEN USING LINK-SEAL® MODULAR SEALS

PROJECT TITLE
HARVEST AT HOPEWELL
OFallon, Missouri
O'FALLON PHASE IB

THE **STERLING** CO.
ENGINEERS & SURVEYORS
6055 New Baumgartner Road
St. Louis, Missouri 63129
Ph 314-487-0440 Fax 314-487-8944
www.sterling-eng-sur.com
Corporate Certificate of Authority #001348



Date: 05-20-2024
Michael G. Boerding
License No. MO E-28643
Professional Engineer

HARVEST HOPEWELL, LLC
5091 New Baumgartner Road
St. Louis, Missouri 63129

DCSD SANITARY DETAILS

P+Z No. 21-004994
City No. 21-011444
Date: 05-20-2024
Job No. 20-09-327
Page No.

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