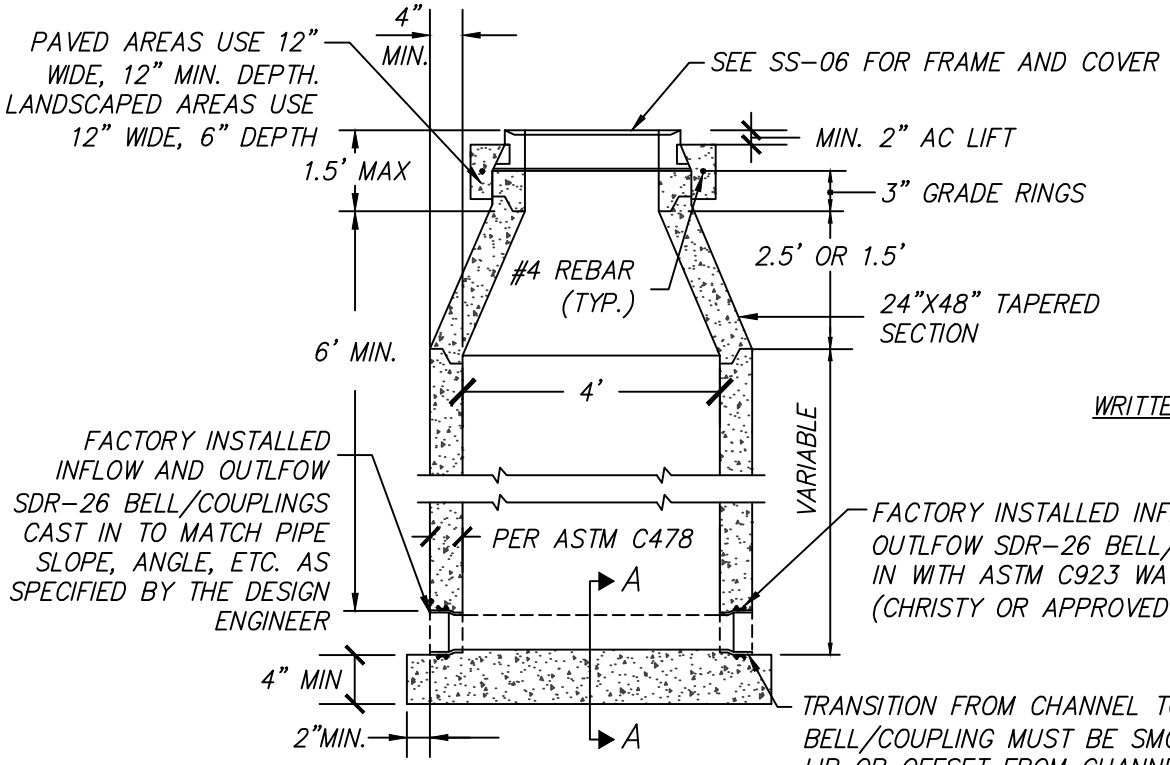
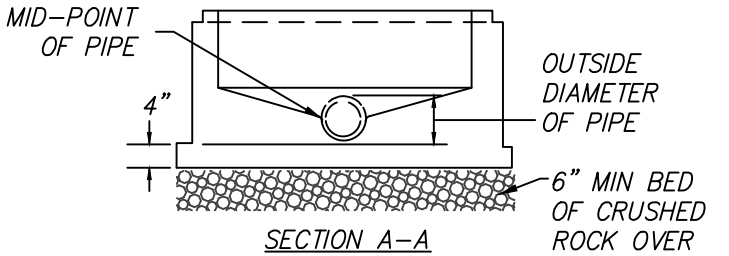


STANDARD MANHOLE 48"

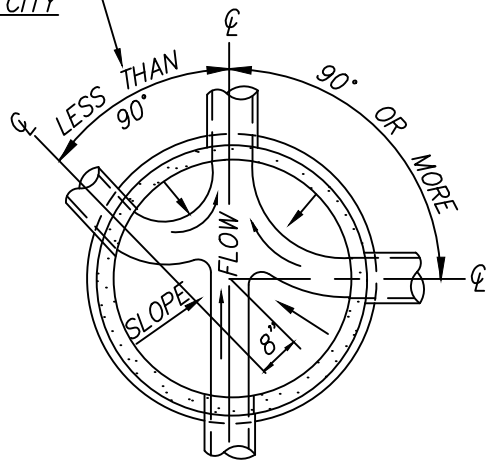
12"ø SS & LESS



SECTION A-A

PRECAST BASE

ALLOWABLE ONLY WITH WRITTEN APPROVAL FROM CITY



PLAN VIEW OF MANHOLE SHOWING INTERSECTING SEWERS

NOTES:

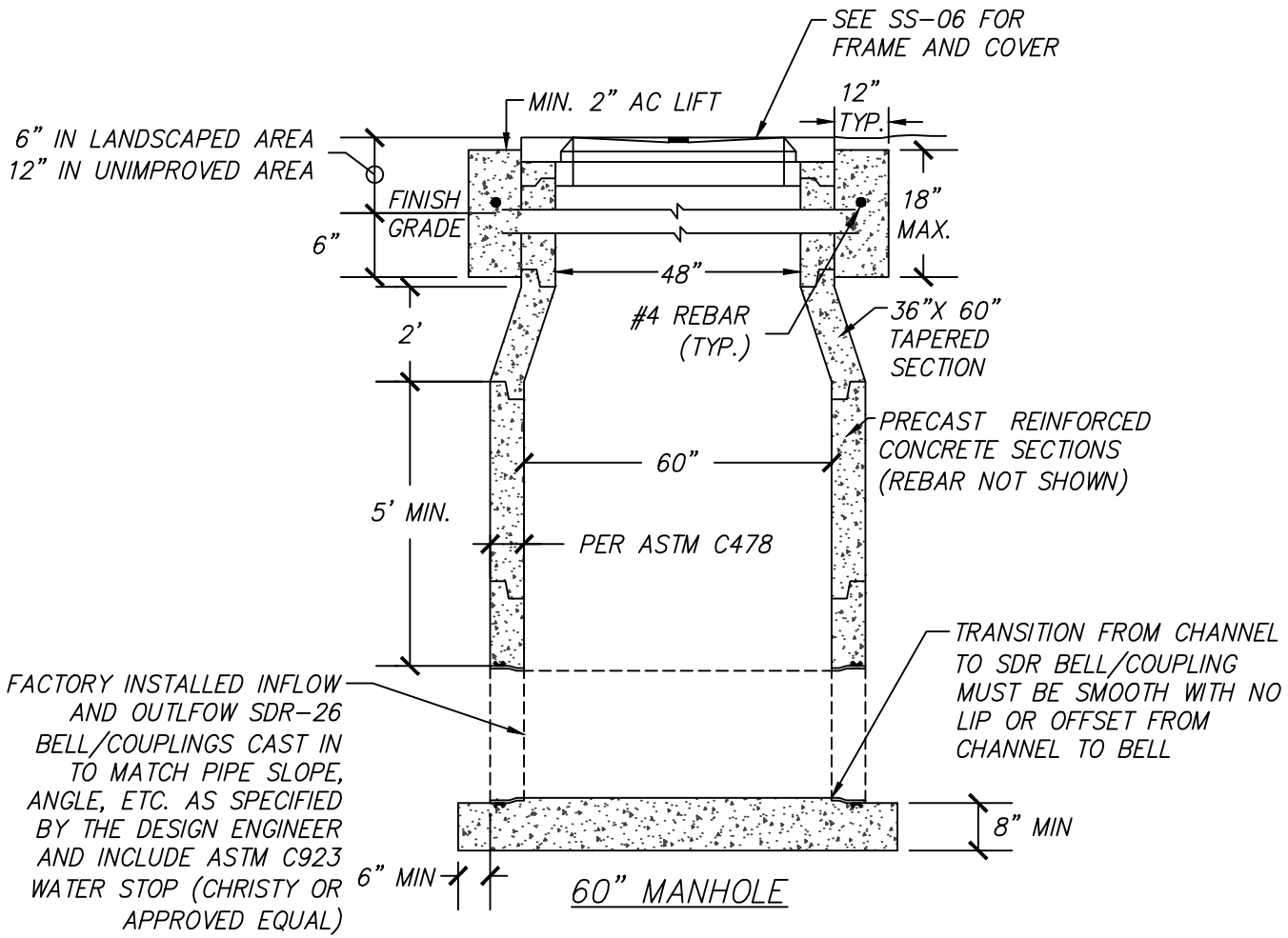
1. CLASS A CONCRETE SHALL BE USED FOR SSMH BASE.
2. PIPE SHALL STOP AT INSIDE FACE OF MANHOLE
3. JOINTS IN PRECAST SSMH (BARREL, CONE, BASE, ETC.) SHALL BE SINGLE OFFSET JOINT. ALL JOINT GASKETS SHALL BE RAMNEK JOINT SEALANT, SIKA SWELLSTOP, OR APPROVED EQUAL.
4. CONNECTION OF PIPE TO MANHOLE SHALL BE FACTORY INSTALLED INFLOW AND OUTFLOW CAST IN SDR-26 BELL/COUPLING ONLY.
5. INTERIOR OF ALL MANHOLES, EXCLUDING BELOW THE FLOW LINE, SHALL BE EPOXY COATED DURA-PLATE 6100 HIGH PERFORMANCE EPOXY-ONE COAT, 125 MILS DFT OR EQUAL. INTERIOR EPOXY LINED COATING SHALL APPLY IN THE FOLLOWING SCENARIOS.
   A. INLET, UPSTREAM PIPE SLOPE IS 8% OR GREATER MORE THAN OUTLET, DOWNSTREAM PIPE SLOPE
   B. AS DETERMINED BY THE CITY
   C. ANY CONDITION THAT COULD CAUSE TURBULENT FLOW CONDITIONS INSIDE THE SSMH AS DETERMINED BY THE CITY.
6. EXTERIOR OF ALL MANHOLES SHALL HAVE AN ASPHALT BITUMASTIC COATING APPLIED. IN ADDITION THE EXTERIOR OF THE SSMH SHALL BE CONSTRUCTED WITH INFI-SHIELD GASKETS AND CONSEAL POLYOLEFIN BACKED EXTERIOR JOINT WRAP OR APPROVED EQUAL.
7. RESIDENTIAL & NON-RESIDENTIAL SEWER SERVICES ENTERING MANHOLE SHALL BE INSTALLED WITH INVERT OF THE SERVICE PIPE MATCHING THE CROWN OF THE EXIT SEWER EXCEPT WHEN AN INTERNAL DROP CONNECTION IS USED. IF THE MANHOLE AT THE END OF THE CUL-DE-SAC IS CONSTRUCTED WITH A PRECAST BASE, THE CROWN OF ANY SERVICE SHALL BE A MINIMUM OF 1" ABOVE THE CROWN OF THE EXIT PIPE.
8. FLAT TOP FRAME & COVERS ARE ONLY ALLOWED/REQUIRED WHEN THE MANHOLE LOCATION IS LOCATED IN A LANDSCAPE OR OPEN SPACE AREA WHERE MANHOLE IS LOCATED ABOVE FINISH GRADE (I.E. HILLSIDE, ETC.)
9. A 60" SSMH IS REQUIRED IF THE SSMH DEPTH EXCEEDS 15' (MEASURED FROM RIM TO THE DEEPEST INVERT), SIZE OF INSIDE DROP IS 10" OR GREATER, TWO OR MORE INSIDE DROP CONNECTIONS ARE PLACED IN THE SSMH, OR IF ANY INLET OR OUTLET PIPE DIAMETER IS 15" OR LARGER.
10. FOR NON THROUGH-AND-THROUGH BASE CONFIGURATIONS, DESIGNER/CONTRACTOR TO CONTACT PRECASTER FOR CONSTRUCTABILITY AND SIZING.

CITY OF FOLSOM

STANDARD 48"
PRE-CAST SEWER MANHOLE

SCALE: NONE
DATE: JANUARY 2024

SS-01



SEE DETAIL SS-01 FOR INTERSECTING SEWERS MANHOLE DETAIL AND PRECAST BASE DETAIL

NOTES:

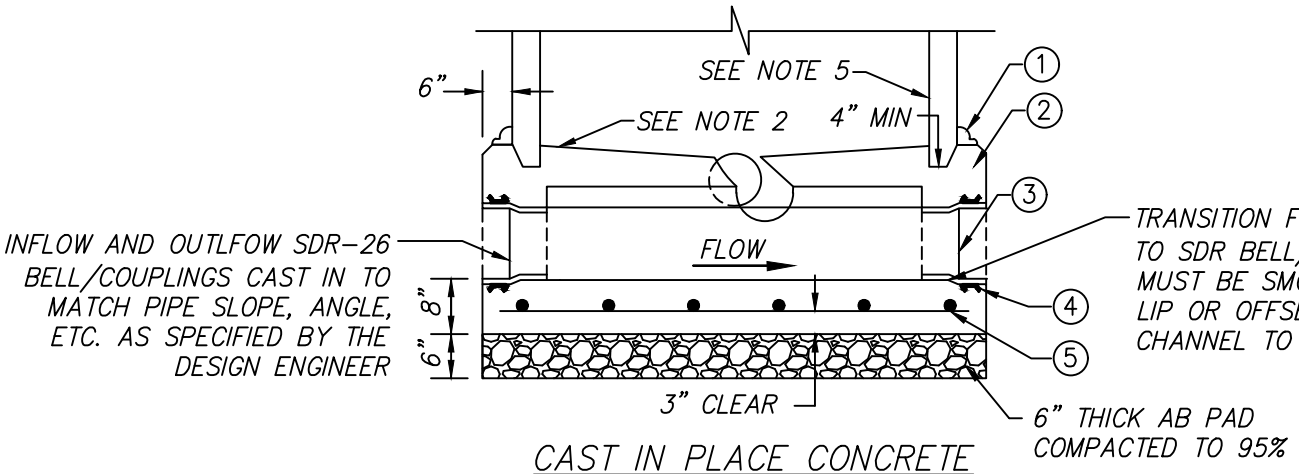
1. CLASS A CONCRETE SHALL BE USED FOR SSMH BASE.
2. PIPE SHALL STOP AT INSIDE FACE OF MANHOLE
3. JOINTS IN PRECAST SSMH (BARREL, CONE, BASE, ETC) SHALL BE TONGUE & GROOVE. ALL JOINT GASKETS SHALL BE RAMNEK JOINT SEALANT, SIKA SWELLSTOP, OR APPROVED EQUAL.
4. CONNECTION OF PIPE TO MANHOLE SHALL BE FACTORY INSTALLED INFLOW AND OUTFLOW SDR-26 BELL/COUPLING ONLY.
5. INTERIOR OF ALL MANHOLES, EXCLUDING BELOW THE FLOW LINE, SHALL BE EPOXY COATED DURA-PLATE 6100 HIGH PERFORMANCE EPOXY-ONE COAT, 125 MILS DFT OR EQUAL. INTERIOR EPOXY LINED COATING SHALL APPLY IN THE FOLLOWING SCENARIOS.
   A. INLET, UPSTREAM PIPE SLOPE IS 8% OR GREATER MORE THAN OUTLET, DOWNSTREAM PIPE SLOPE
   B. ANY SSMH THAT COULD CAUSE TURBULENT FLOW CONDITIONS INSIDE THE SSMH
   C. AS DETERMINED BY THE CITY
6. EXTERIOR OF ALL MANHOLES SHALL HAVE AN ASPHALT BITUMASTIC COATING APPLIED. IN ADDITION THE EXTERIOR OF THE SSMH SHALL BE CONSTRUCTED WITH INFI-SHIELD GASKETS AND CONSEAL POLYOLEFIN BACKED EXTERIOR JOINT WRAP OR APPROVED EQUAL.
7. RESIDENTIAL & NON-RESIDENTIAL SEWER SERVICES ENTERING MANHOLE SHALL BE INSTALLED WITH INVERT OF THE SERVICE PIPE MATCHING THE CROWN OF THE EXIT SEWER EXCEPT WHEN AN INTERNAL DROP CONNECTION IS USED. IF THE MANHOLE AT THE END OF THE CUL-DE-SAC IS CONSTRUCTED WITH A PRECAST BASE, THE CROWN OF ANY SERVICE SHALL BE A MINIMUM OF 1" ABOVE THE CROWN OF THE EXIT PIPE.
8. FLAT TOP FRAME & COVERS ARE ONLY ALLOWED/REQUIRED WHEN THE MANHOLE LOCATION IS LOCATED IN A LANDSCAPE OR OPEN SPACE AREA WHERE MANHOLE IS LOCATED ABOVE FINISH GRADE (I.E. HILLSIDE, ETC.)
9. A 60" SSMH IS REQUIRED IF THE SSMH DEPTH EXCEEDS 15' (MEASURED FROM RIM TO DEEPEST INVERT), SIZE OF INSIDE DROP IS 10" OR GREATER, TWO OR MORE INSIDE DROP CONNECTIONS ARE PLACED WITH THE SSMH, OR IF EITHER THE INLET OR OUTLET PIPE DIAMETER IS 15" OR LARGER.
10. FOR NON THROUGH-AND-THROUGH BASE CONFIGURATIONS, DESIGNER/CONTRACTOR TO CONTACT PRECASTER FOR CONSTRUCTABILITY AND SIZING.

CITY OF FOLSOM

STANDARD 60" PRE-CAST SEWER MANHOLE

SCALE: NONE
DATE: JANUARY 2024

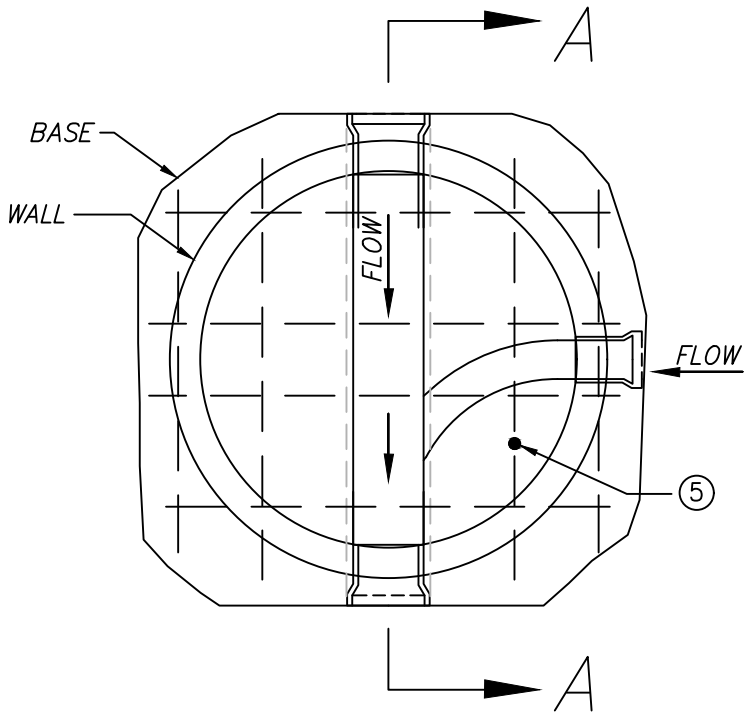
SS-02



CAST IN PLACE CONCRETE
MANHOLE BASE SECTION A-A

LEGEND:

1. MORTAR
2. CLASS A CONCRETE
3. INFLOW/OUTFLOW CAST IN SDR-26 BELL/COUPLING
4. ASTM C923 WATERSTOP (CHRISTY OR APPROVED EQUAL)
5. #4 GRADE 60 REBAR @ 12" GRID



CAST IN PLACE CONCRETE
MANHOLE BASE PLAN VIEW

NOTES:

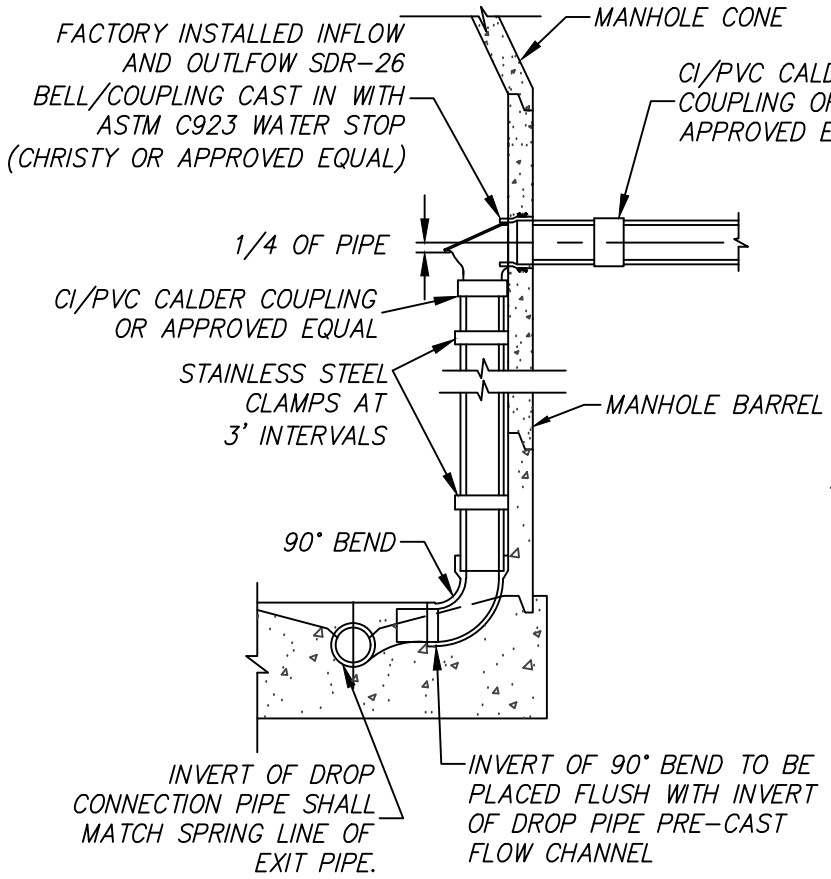
1. CAST-IN-PLACE MANHOLES ARE ONLY ALLOWED WITH WRITTEN APPROVAL FROM THE CITY.
2. SLOPE SHELVES 1" PER 1'
3. FORM RECESS IN BASE WITH METAL FORMING RING TO PLACE BARREL SECTION. JOINTS SHALL HAVE RAMNEK JOINT SEALANT, SIKA SWELLSTOP, OR APPROVED EQUAL.
4. CHANNEL CONFIGURATION MUST ACCOMMODATE TRACTOR DRIVEN VIDEO CAMERA.
5. MANHOLE TO BE EPOXY LINED PER SS-01/SS-02.
6. WRAP EACH JOINT OF EXTERIOR SSMH JOINTS PER SS-01/SS-02.
7. ALL OTHER SSMH REQUIREMENTS OF SS-01/SS-02 APPLY TO SS-03 INCLUDING REQUIREMENTS REGARDING THE BARREL, FRAME AND LID.

CITY OF FOLSOM

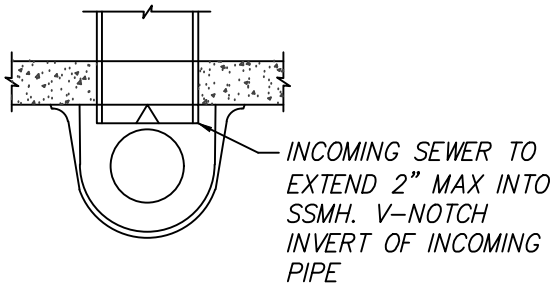
CAST-IN-PLACE
CONCRETE MANHOLE BASE

SCALE: NONE
DATE: JANUARY 2024

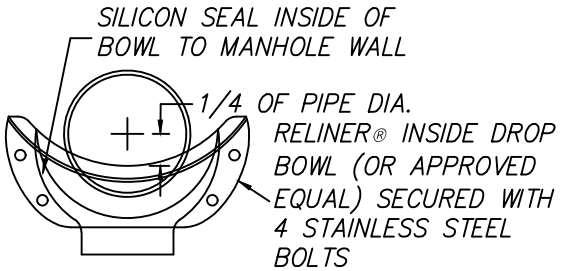
SS-03



ELEVATION



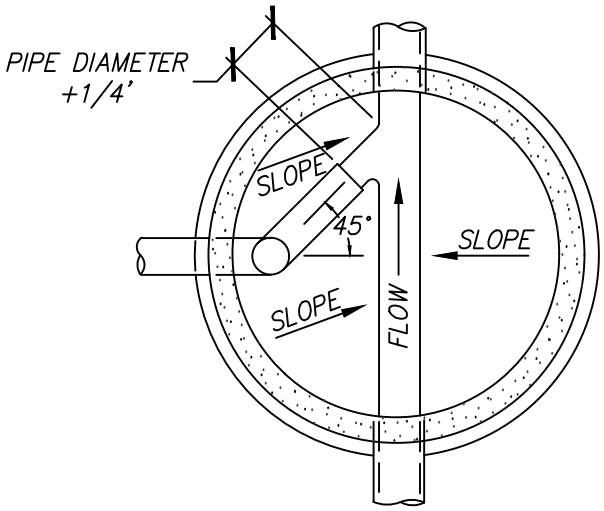
DROP BOWL MOUNTING POSITION TOP VIEW



DROP BOWL MOUNTING POSITION FRONT VIEW

NOTES:

1. MINIMUM 48" MANHOLE. 60" MANHOLE REQUIRED IF DEPTH EXCEEDS 15' (MEASURED FROM RIM TO DEEPEST INVERT), SIZE OF INSIDE DROP IS 10" OR GREATER, TWO OR MORE INSIDE DROP CONNECTIONS ARE PLACED WITHIN MANHOLE, OR IF EITHER THE INLET OR OUTLET PIPE DIAMETER IS 15" OR LARGER.
2. ALL INSIDE DROP PIPING SHALL BE SDR-26.
3. ALL INSIDE DROP CONNECTIONS SHALL USE THE DROP BOWL AS PRODUCED BY: RELINER-DURAN, INC. OR APPROVED EQUAL. FOR FORCE MAINS A FORCE LINE HOOD IS REQUIRED AS PART OF THE DROP BOWL.
4. DROP CONNECTION PIPE & FITTINGS TO BE SIZE AS ENTERING PIPE.
5. DROP BOWL MODEL "A-4" SHALL BE USED FOR LINES UP THROUGH 6" INLETS. MODEL "A-6" SHALL BE USED FOR 8" INLETS. MODEL "B-8" SHALL BE USED FOR 10" INLETS. LINES LARGER THAN 10" SHALL BE AS DIRECTED BY THE ENVIRONMENTAL & WATER RESOURCES DEPARTMENT.
6. CLAMPS SHALL BE 1-1/2"X 12 GAGE STAINLESS STEEL, ANCHORED TO M.H. WALL WITH 2-1/2" STAINLESS STEEL BOLTS.
7. THE FORCE LINE HOOD SHALL BE ATTACHED ON MODELS "A-4" & "A-6" WHEN THE INCOMING LINE IS FROM A FORCE MAIN OR THE SLOPE IS S=0.03 AND GREATER OR WHEN INCOMING FLOWS CANNOT BE FULLY CONTAINED. SEE DETAIL SS-04 FOR ATTACHMENT DETAILS.
8. INSIDE DROP CONNECTIONS SHALL BE REQUIRED FOR ANY PIPE ENTERING THE SSMH 36 INCHES OR MORE ABOVE THE SSMH BASE.
9. LATERAL INVERT ELEVATIONS ENTERING THE SSMH BARREL ABOVE 0 INCHES AND LESS THAN 36 INCHES SHALL REQUIRE APPROVAL BY THE EWR DIRECTOR.
10. ALL SSMH TROUGHS SHALL BE FINISHED WITH NO IRREGULARITIES. RIDGES EXCEEDING $\frac{1}{8}$" NEED TO BE REMOVED AND REFINISHED.



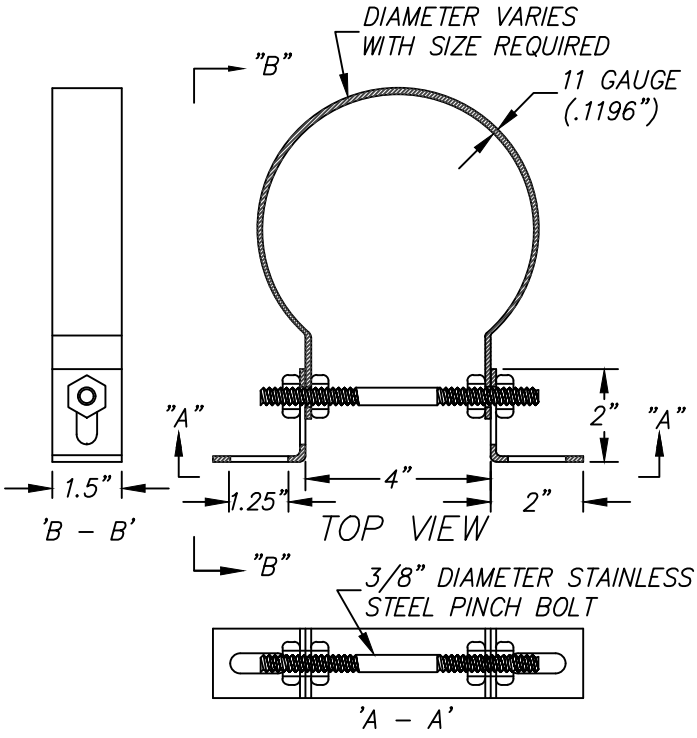
PLAN

CITY OF FOLSOM

INSIDE DROP CONNECTION

SCALE: NONE
DATE: JANUARY 2024

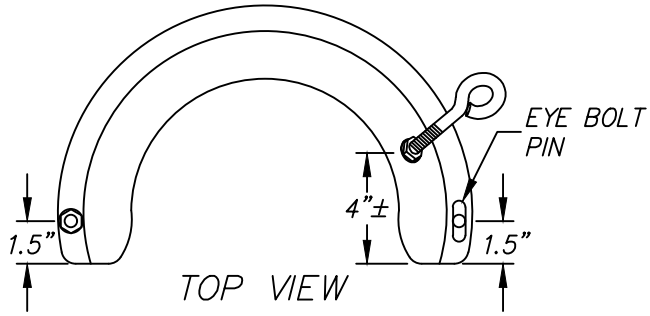
SS-04

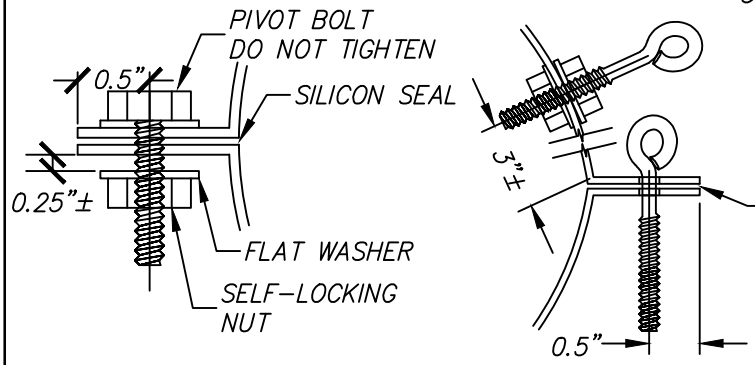


DROP PIPE ATTACHMENT

SPECIFICATIONS:

A. CLAMP AND BRACKETS IS TYPE 304 STAINLESS STEEL, 11 GAUGE (.1196").
B. 3/8" ø PINCH BOLT AND NUTS IS TYPE 18–8 STAINLESS STEEL.
C. STANDARD SIZES TO FIT 6", 8" & 10" PVC SEWER PIPE SDR–26 AND 4" ABS.





FORCE LINE HOOD ATTACHMENT

NOTES:

1. SECURE DROP PIPE TO MANHOLE WALL WITH STAINLESS STEEL ADJUSTABLE CLAMPING BRACKET AS MANUFACTURED BY RELINER–DURAN, INC. OR APPROVED EQUAL.

2. ATTACH THE DROP BOWL & EACH CLAMPING BRACKET TO THE MANHOLE WALL WITH $\frac{3}{8}$" X $3\frac{3}{4}$" RAMSET/RED HEAD BOLTS. PRE–ROTO DRILL AND SET BOLTS IN PLACE WITH EPOXY PASTE. EPOXY SHALL MEET THE FOLLOWING REQUIREMENTS:

   A. EPOXY PASTE SHALL BE A TWO COMPONENT, 100% SOLID SYSTEM. EPOXY SHALL BE SIKADUR 31 HI–MOD GEL BY SIKA CORPORATION OR APPROVED EQUAL.

   B. THE EPOXY PASTE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI IN 28 DAYS WHEN TESTED IN ACCORDANCE WITH ASTM D695 AT 73°.

   C. THE EPOXY PASTE SHALL DEVELOP A MINIMUM TENSILE STRENGTH OF 3,000 PSI IN 14 DAYS WHEN TESTED IN ACCORDANCE WITH ASTM D638.

   D. THE EPOXY PASTE SHALL DEVELOP A MINIMUM BOND STRENGTH OF 2,000 PSI IN 2 DAYS WHEN TESTED IN ACCORDANCE WITH ASTM C882 (HARDENED CONCRETE TO HARDENED CONCRETE).

   E. MANUFACTURER'S INSTRUCTIONS SHALL BE PRINTED ON EACH CONTAINER IN WHICH THE MATERIALS ARE PACKAGED.

3. ALL FORCE LINE HOODS SHALL BE AS PRODUCED BY RELINER–DURAN, INC. OR APPROVED EQUAL

4. SILICON SEAL THE FORCE LINE HOOD TO MODELS "A–4" & "A–6" WHEN THE INCOMING LINE IS FROM A FORCE MAIN OR THE SLOPE IS S=0.03 AND GREATER OR WHEN INCOMING FLOWS CANNOT BE FULLY CONTAINED.

5. ATTACHING BOLTS, APPROPRIATE SIZE SELF LOCKING NUTS AND FLAT WASHERS SHALL BE TYPE 304 STAINLESS STEEL REGULAR THREAD AND HAVE THE FOLLOWING DIMENSIONS:

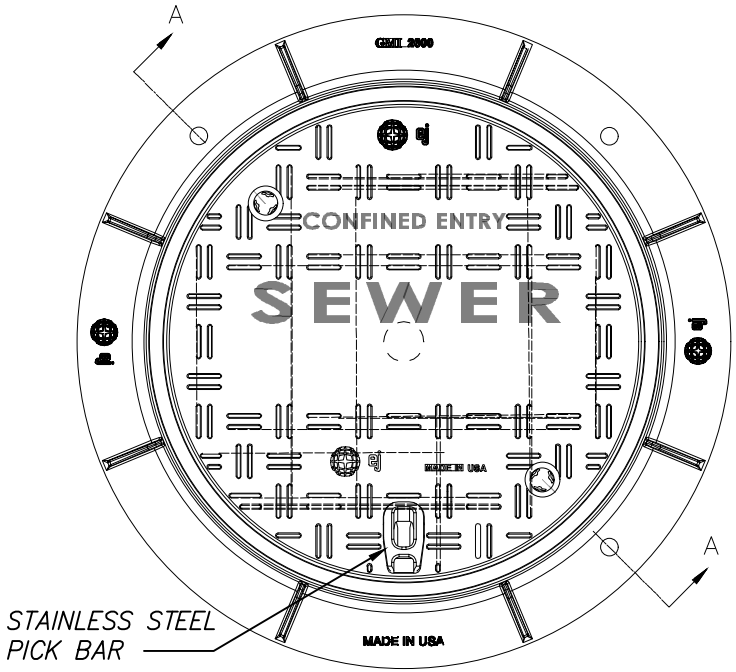
   EYE BOLTS SHALL BE $\frac{3}{8}$" X 5"
   PIVOT BOLT SHALL BE $\frac{3}{8}$" X $1\frac{1}{2}$"

CITY OF FOLSOM

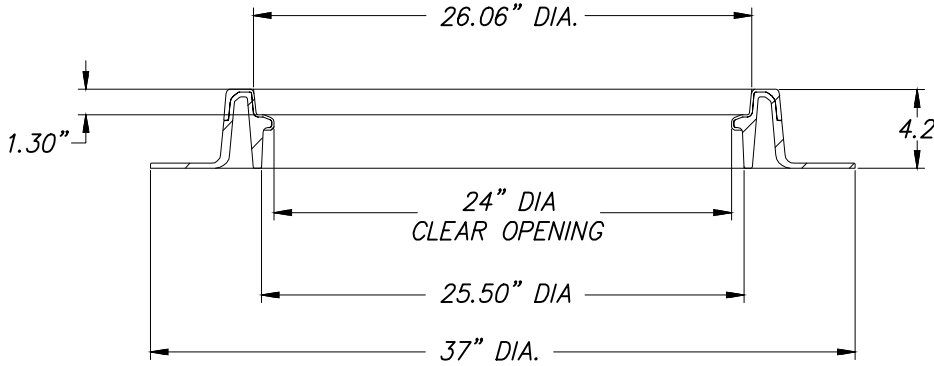
INSIDE DROP CONNECTION
MANHOLE ATTACHMENTS

SCALE: NONE
DATE: JANUARY 2024

SS–05



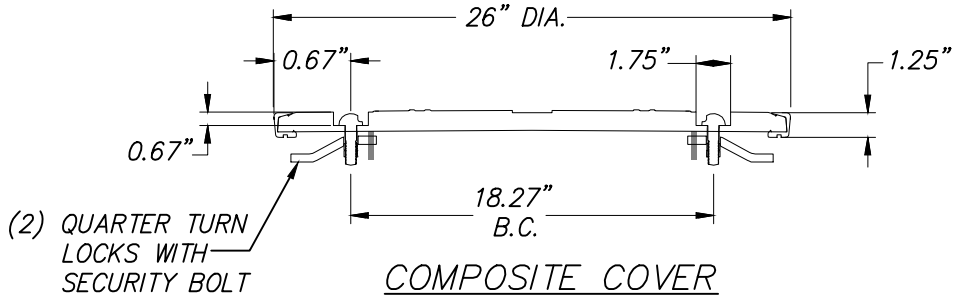
HALF PLAN OF HEAD AND COVER



SECTION A–A
COMPOSITE FRAME

NOTES:

1. MANHOLE LIDS AND CASTINGS FOR 48–INCH DIAMETER BARRELS SHALL BE 24–INCH DIAMETER. 24–INCH DIAMETER MANHOLE FRAMES AND COVERS SHALL BE FIBER REINFORCED POLYMER, GMI COMPOSITE MANHOLE COVER AND FRAME SET OR APPROVED EQUAL.
2. MANHOLE LIDS AND CASTINGS FOR 60–INCH BARRELS SHALL BE 36–INCH DIAMETER CAST IRON FRAME AND COVER. 36–INCH MANHOLE LIDS SHALL HAVE AT LEAST ONE PICK HOLE TO LIFT THE SSMH LID.
3. STAINLESS STEEL PICK HOLE REQUIRED FOR LID.
4. DATE OF MANUFACTURE SHALL BE CLEARLY CAST, STAMPED, ETCHED OR ENGRAVED ON THE MANHOLE COVER.
5. (2) QUARTER TURN LOCKS WITH LOCKED/UNLOCKED INDICATOR, POSITIVE STOP, AND SECURITY BOLT REQUIRED ON COMPOSITE COVER.
6. TWO (2) SSMH PADDLE LOCK HOOKS SHALL PROVIDED TO THE CITY PER SUBDIVISION BUILT.



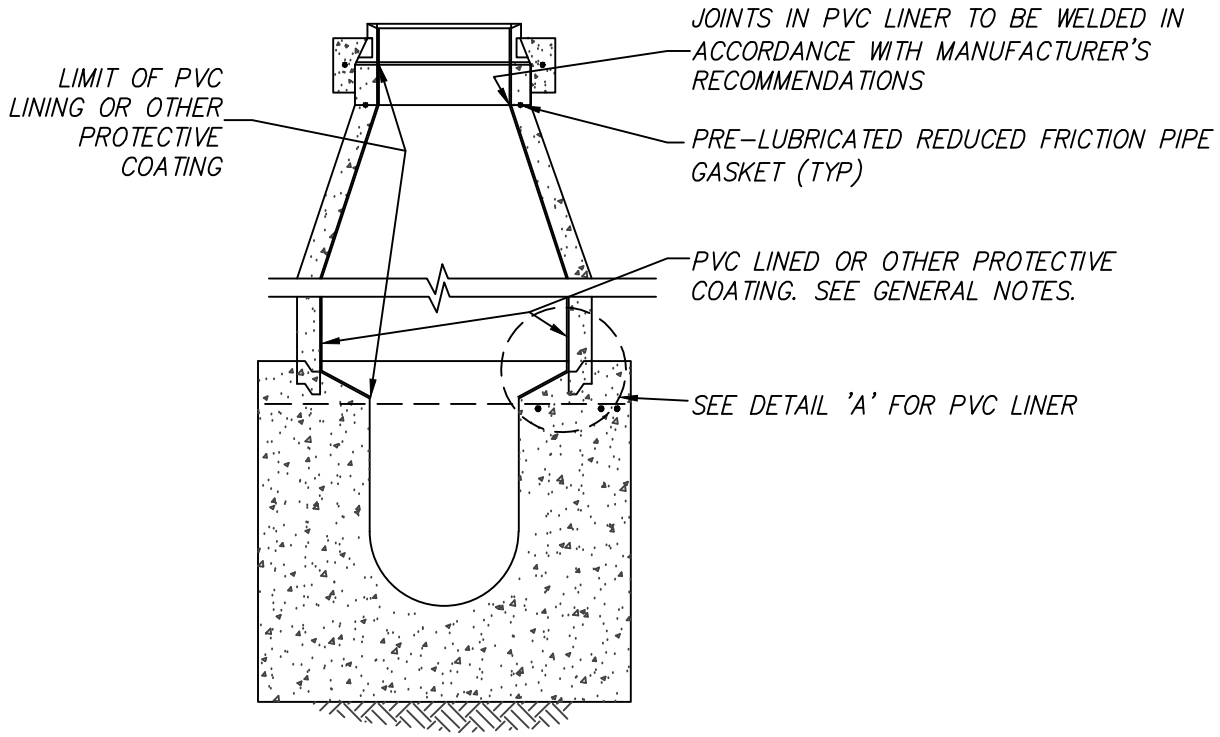
COMPOSITE COVER

CITY OF FOLSOM

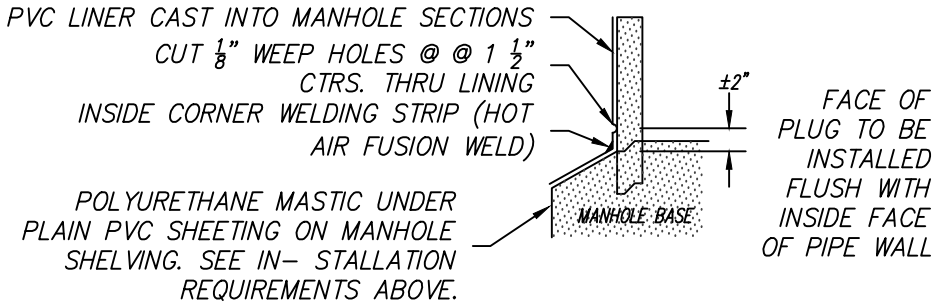
SEWER MANHOLE
FRAME AND COVER

SCALE: NONE
DATE: JANUARY 2024

SS–06



MANHOLE DETAIL



DETAIL A

INSTALLATION REQUIREMENTS FOR PVC SHELF LINER

1. 30 MIL PVC SHELF LINER SHALL BE PRECUT AND PREPARED ABOVE GROUND PRIOR TO INSTALLATION WITH SAND EMBEDDED NON-SKID SURFACE 1" ± IN FROM EDGE, ACCORDING TO PVC SHEETING MANUFACTURER'S RECOMMENDATION.
2. COAT CLEAN AND DRY CONCRETE SURFACE OF MANHOLE SHELVES WITH LINABOND PRIMER EP30 AND LINABOND POLYURETHANE MASTIC TO A MINIMUM THICKNESS OF 125 MIL. ALSO COAT CONTACT SIDE OF THE PRECUT PVC SHEETING WITH LINABOND CLA-1 ACTIVATOR ALL AS MANUFACTURED BY ALLIED COATINGS CO. OF HOLLYWOOD, CA. OR EQUAL(SUBMITTAL WILL BE REQUIRED).
3. ALL MATERIALS SHALL BE APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

GENERAL NOTES:

1. PROTECTIVE COATING SHALL BE A) QUANTUM AS MANUFACTURED BY POLYMORPHIC POLYMER'S CORP. OF MIAMI SHORES, FL. MINIMUM THICKNESS OF MULTILAYERED MODIFIED UNSATURATED POLYESTER COATING SHALL BE 125 MIL. B) CONCRESIVE 1305 AS MANUFACTURED BY ADHESIVE ENGINEERING CO. OF SAN CARLOS, CA. MINIMUM THICKNESS OF MULTILAYERED, APPLIED AMINE CURED EPOXY SHALL BE 40 MILS C) OR EQUAL.
2. BOTH PVC LINING AND PROTECTIVE COATINGS SHALL BE SPARK TESTED FOR INTEGRITY AFTER INSTALLATION.
3. PROTECTIVE COATING SHALL BE APPLIED TO MANHOLE SHELVES, UNDERSIDE OF COVER SLAB, INSIDE OF GRADE RINGS AND ALL OTHER PLACES WHERE PVC IS SHOWN ON DETAIL ABOVE.

CITY OF FOLSOM

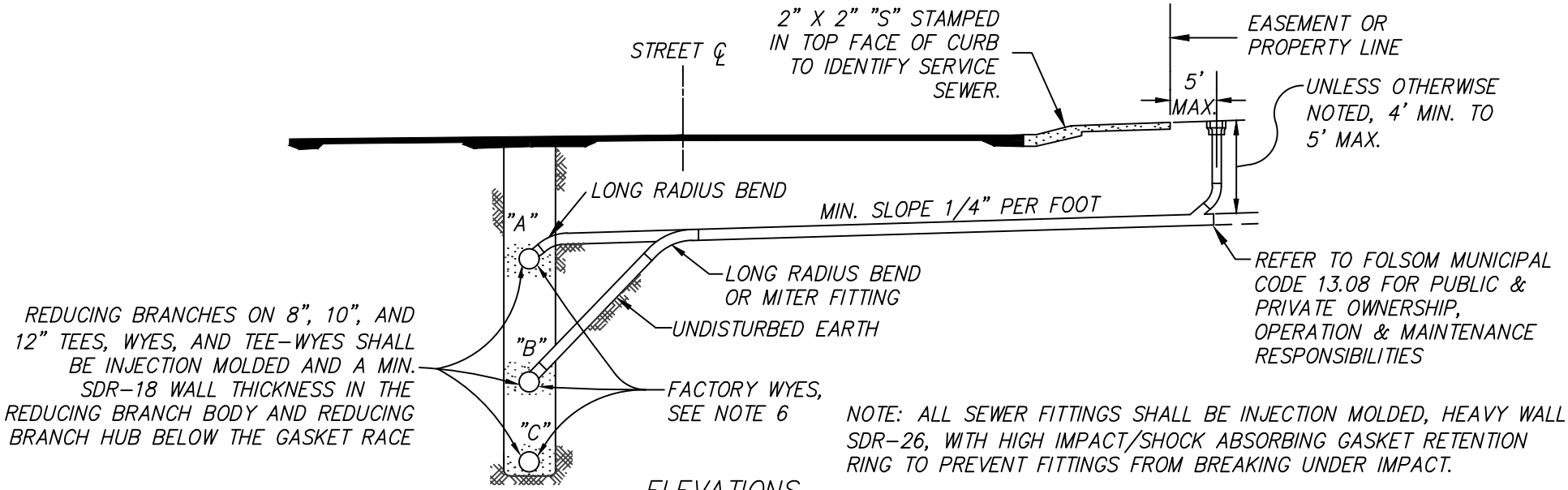
LINED SEWER MANHOLE

SCALE: NONE
DATE: JANUARY 2024

SS-07

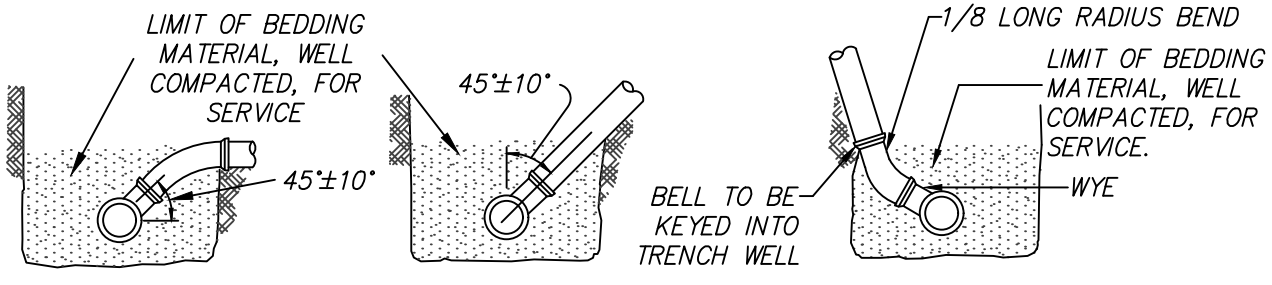
NOTES:

1. ALL SERVICE LINES SHALL BE 4" INSIDE DIAMETER PVC SDR-26 (ASTM F679)
2. SERVICES SHALL HAVE SAME BEDDING AND BACKFILL AS SEWER MAIN.
3. CONTRACTOR SHALL USE THE MOST APPROPRIATE TYPE CONNECTION (A, B, OR C) FOR THE PARTICULAR SITUATION ENCOUNTERED.
4. SERVICE SEWER SHALL HAVE MINIMUM 4' COVER AT PROPERTY LINE, 5' MAXIMUM. WHENEVER LATERAL DEPTH AND SERVICE SEWER SLOPE OF 1/4" PER FOOT (MINIMUM) PERMIT.
5. WHEN THE LATERAL SEWER DEPTH IS SUCH THAT MINIMUM COVER AT PROPERTY LINE CANNOT BE MET, THE MINIMUM SLOPE OF 1/4" PER FOOT SHALL GOVERN THE COVER.
6. WHEN BEDDING MATERIAL IS USED, PLACE ADDITIONAL BEDDING MATERIAL TO TOP OF BEND, THE FULL WIDTH OF THE TRENCH.
7. MINIMUM SPECIFIED COVER AT THE PROPERTY LINE SHALL BE MEASURED FROM EXISTING GROUND SURFACE OR EDGE OF ADJACENT ROADWAY, WHICHEVER IS LOWER.
8. A SPECIFIC ELEVATION AT THE PROPERTY LINE, WHEN SHOWN ON THE PLANS OR DESIGNATED BY THE ENGINEER, SHALL GOVERN.
9. MITER FITTING SHALL BE MAX. 45°.
10. SEWER LINE UP STREAM OF THE CLEANOUT LOCATED IN THE PUBLIC UTILITY EASEMENT IS PRIVATE.
11. ALL SEWER BENDS SHALL BE LONG RADIUS.



NOTE: ALL SEWER FITTINGS SHALL BE INJECTION MOLDED, HEAVY WALL SDR-26, WITH HIGH IMPACT/SHOCK ABSORBING GASKET RETENTION RING TO PREVENT FITTINGS FROM BREAKING UNDER IMPACT.

ELEVATIONS



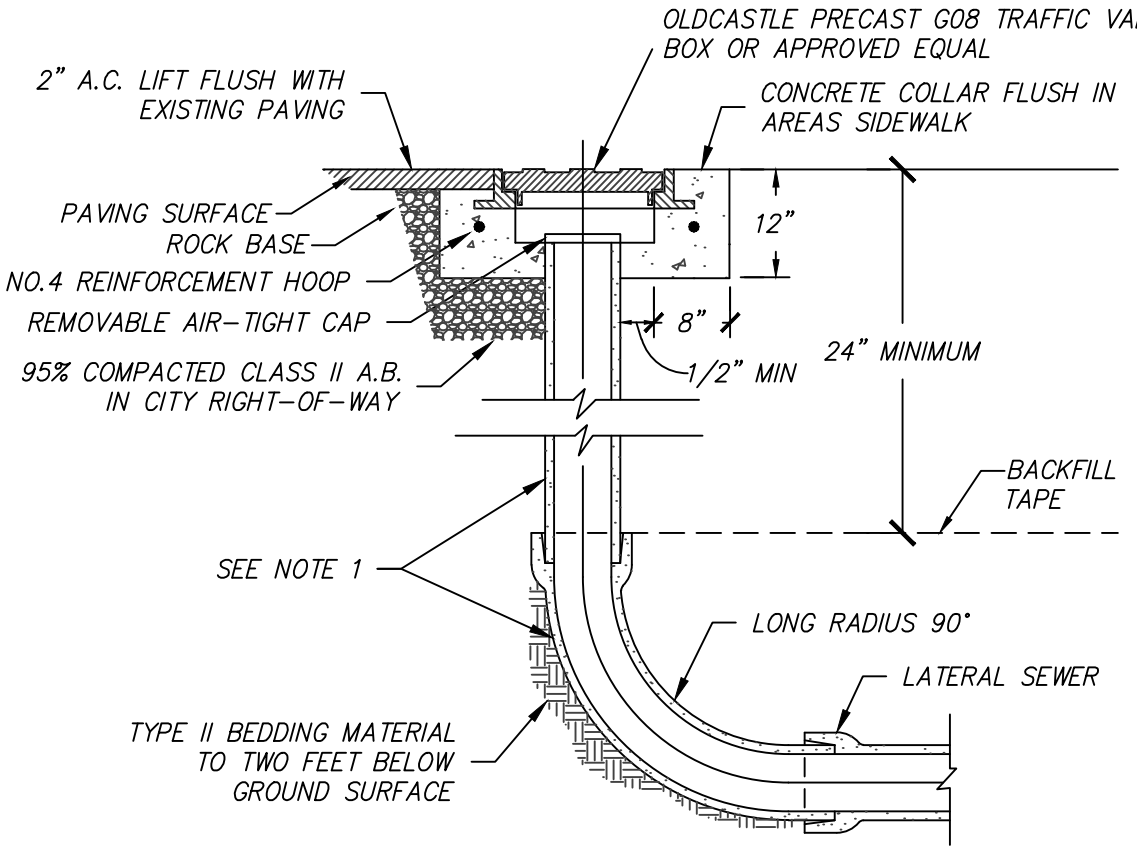
CONNECTION DETAILS

CITY OF FOLSOM

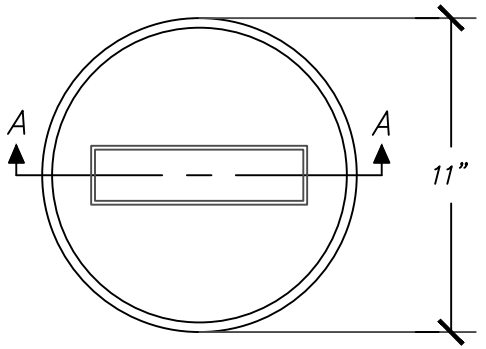
SEWER SERVICE LATERAL

SCALE: NONE
DATE: JANUARY 2024

SS-08



FLUSHING BRANCH



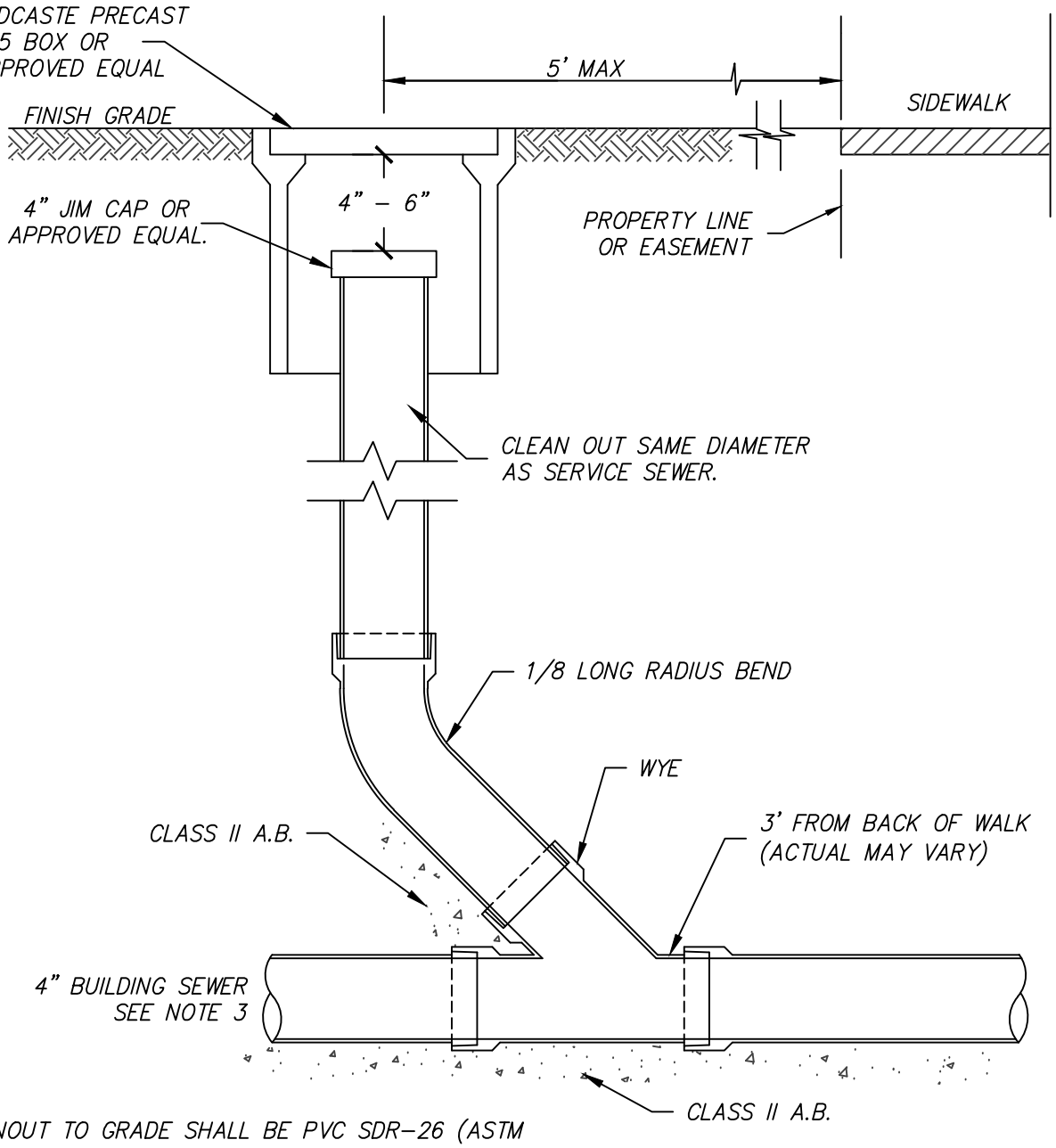
TYPICAL CAST IRON G05 TRAFFIC RING & COVER

SECTION A-A

NOTE:

1. FLUSHING BRANCH SHALL BE A MINIMUM OF 8" PVC FOR 8" MAINS SDR-26 (ASTM F679) AND 6" PVC FOR 6" MAINS SDR-26 (ASTM F679).
2. ALL PIPE AND FITTINGS SHALL BE THE SAME SIZE AND MATERIAL AS THE HORIZONTAL PIPE TO WHICH THEY CONNECT. JOINT SHALL BE AS SPECIFIED FOR THE TYPE OF PIPE USED.
3. FOR FLUSHING BRANCH GREATER THAN 8" DIAMETER, USE OLDCASTLE PRECAST G12 TRAFFIC VALVE BOX OR APPROVED EQUAL.

CITY OF FOLSOM	
FLUSHING BRANCH	
SCALE: NONE **DATE: JANUARY 2024**	SS-09



NOTES:

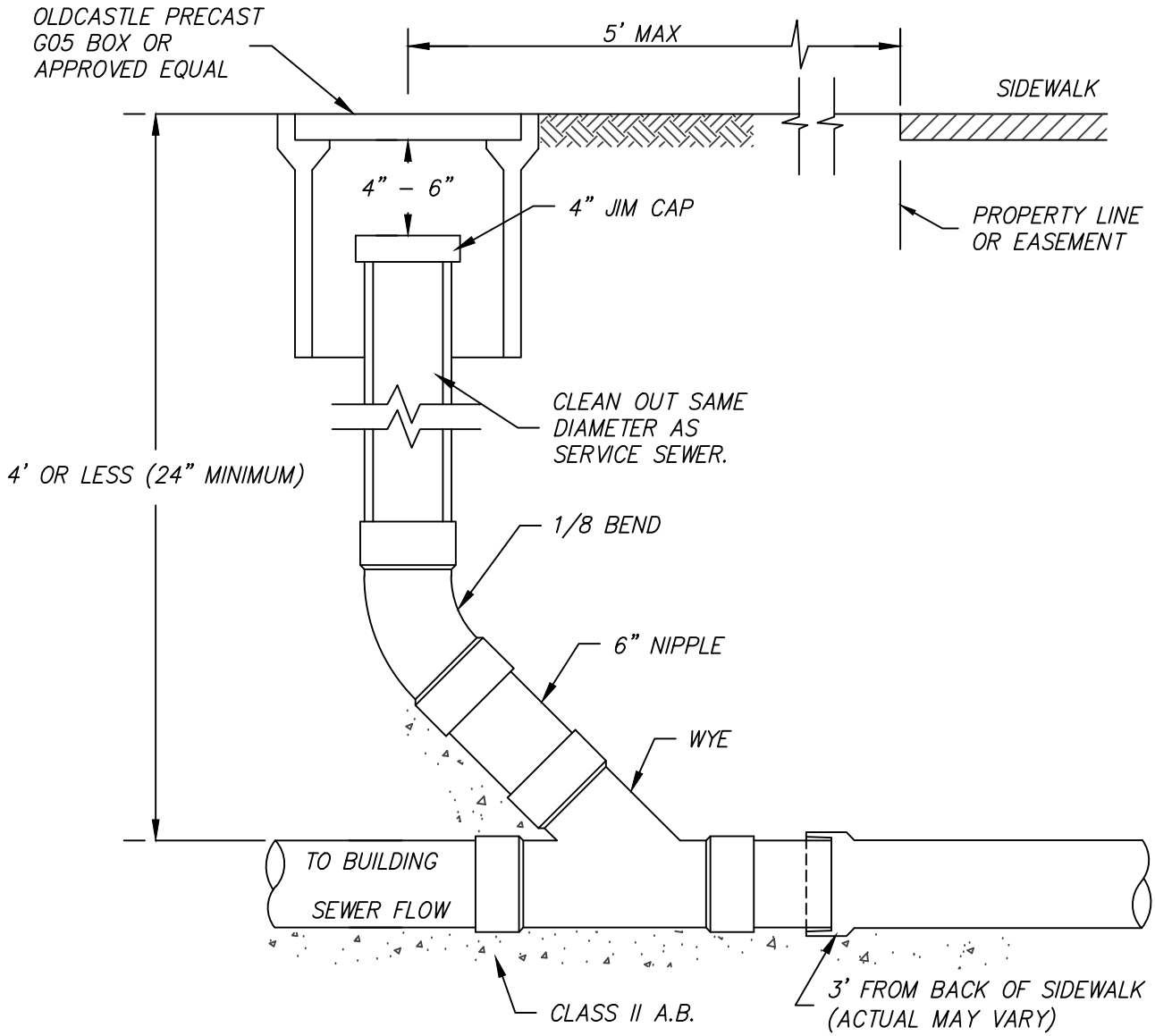
1. CLEANOUT TO GRADE SHALL BE PVC SDR–26 (ASTM F679).
2. FOR ALL SERVICES, INSTALL ROUND, CONCRETE TRAFFIC TYPE OLDCASTLE PRECAST G05 BOX OR APPROVED EQUAL WITH CAST IRON COVER MARKED "SEWER".
3. IF WATER MAIN IS TO BE INSTALLED AT THE BACK OF THE SIDEWALK, SEWER CLEANOUT LOCATION TO BE DETERMINED IN THE FIELD BY THE CITY.
4. DEPTH AT PROPERTY LINE SHOULD BE 4' MINIMUM, 5' MAXIMUM. EXISTING CONDITIONS MAY VARY.
5. CLOSED CIRCUIT TELEVISION REQUIRED PRIOR TO BUILDING OCCUPANCY PERMIT. CONTRACTOR TO ARRANGE CCTV 48 HOURS OR MORE IN ADVANCE WITH CITY INSPECTOR.
6. REFER TO FOLSOM MUNICIPAL CODE 13.08 FOR PUBLIC & PRIVATE OWNERSHIP, OPERATION AND MAINTENANCE RESPONSIBILITIES.

CITY OF FOLSOM

CLEANOUT TO GRADE

SCALE: NONE
DATE: JANUARY 2024

SS–10



NOTES:

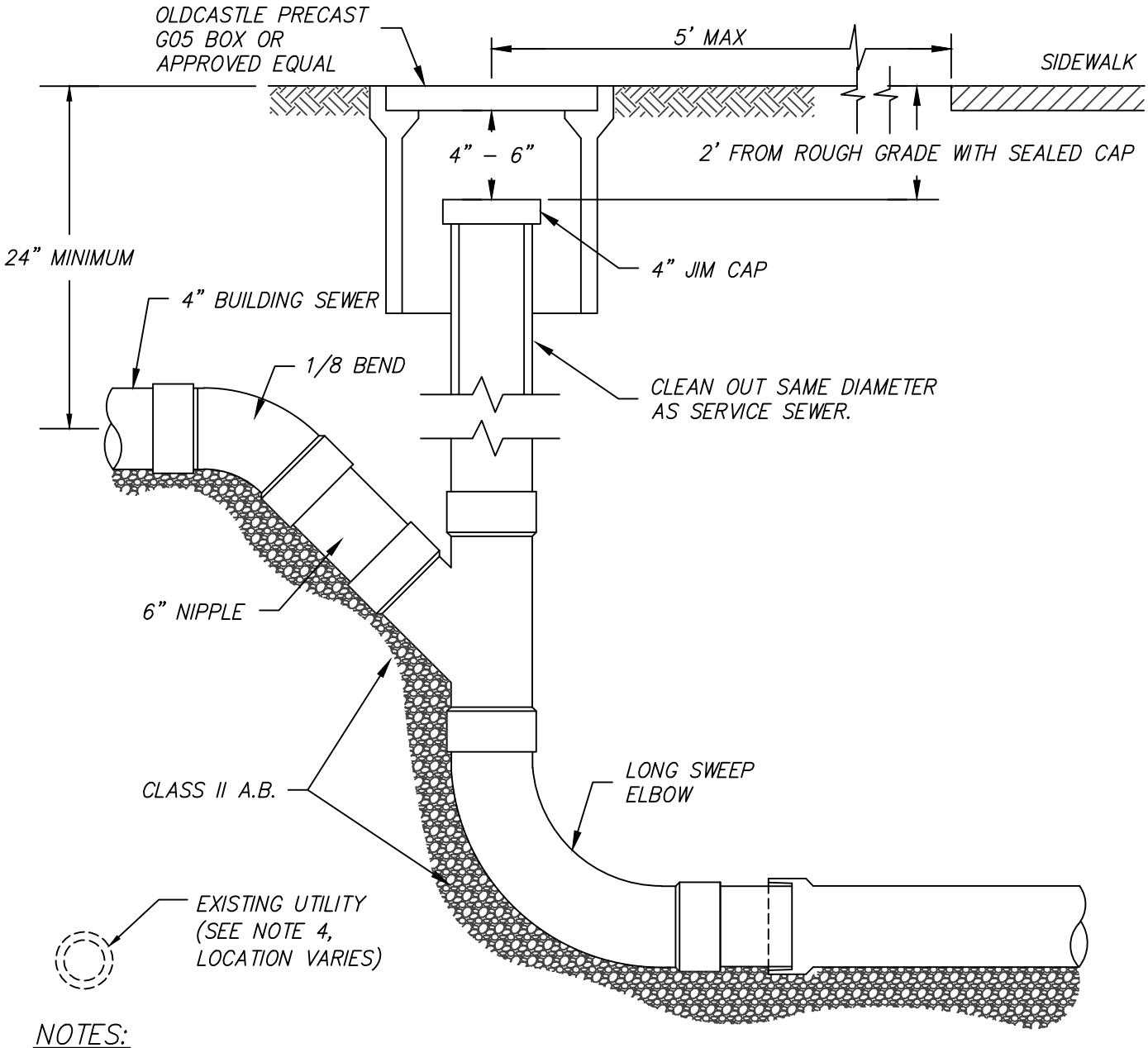
1. CLEANOUT TO GRADE SHALL BE PVC SDR–26 (ASTM F679).
2. FOR ALL SERVICES, INSTALL ROUND, CONCRETE TRAFFIC TYPE OLDCASTE PRECAST G05 BOX OR APPROVED EQUAL VALVE BOX WITH CAST IRON COVER MARKED "SEWER".
3. IF WATER MAIN IS TO BE INSTALLED AT THE BACK OF THE SIDEWALK, SEWER CLEANOUT LOCATION TO BE DETERMINED IN THE FIELD BY THE CITY.
4. DEPTH AT PROPERTY LINE SHOULD BE 4' MINIMUM, 5'MAXIMUM. EXISTING CONDITIONS MAY VARY.
5. USE OF THIS DETAIL REQUIRES PRIOR APPROVAL FROM THE CITY ENGINEER.
6. CLOSED CIRCUIT TELEVISION REQUIRED PRIOR TO BUILDING OCCUPANCY PERMIT. CONTRACTOR TO ARRANGE CCTV 48 HOURS OR MORE IN ADVANCE WITH CITY INSPECTOR.
7. REFER TO FOLSOM MUNICIPAL CODE 13.08 FOR PUBLIC & PRIVATE OWNERSHIP, OPERATION, AND MAINTENANCE RESPONSIBILITIES.

CITY OF FOLSOM

CLEANOUT TO GRADE (LESS THAN 4 FOOT DEPTH)

SCALE: NONE
DATE: JANUARY 2024

SS–11



NOTES:

1. THIS DETAIL SHALL BE USED WHEN THE SEWER MAIN IS SIGNIFICANTLY DEEPER THAN THE SERVICE LATERAL.
2. CLEANOUT TO GRADE SHALL BE PVC SDR–26 (ASTM F679).
3. FOR ALL SERVICES, INSTALL ROUND, CONCRETE TRAFFIC TYPE OLDCASTLE PRECAST G05 BOX OR APPROVED EQUAL VALVE BOX WITH CAST IRON COVER MARKED "SEWER".
4. IF WATER MAIN IS TO BE INSTALLED AT THE BACK OF THE SIDEWALK, SEWER CLEANOUT LOCATION TO BE DETERMINED IN THE FIELD BY THE CITY.
5. DEPTH AT PROPERTY LINE SHALL BE A 4' MINIMUM AND 5' MAXIMUM UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
6. CLOSED CIRCUIT TELEVISION REQUIRED PRIOR TO BUILDING OCCUPANCY PERMIT. CONTRACTOR TO ARRANGE CCTV 48 HOURS OR MORE IN ADVANCE WITH CITY INSPECTOR.

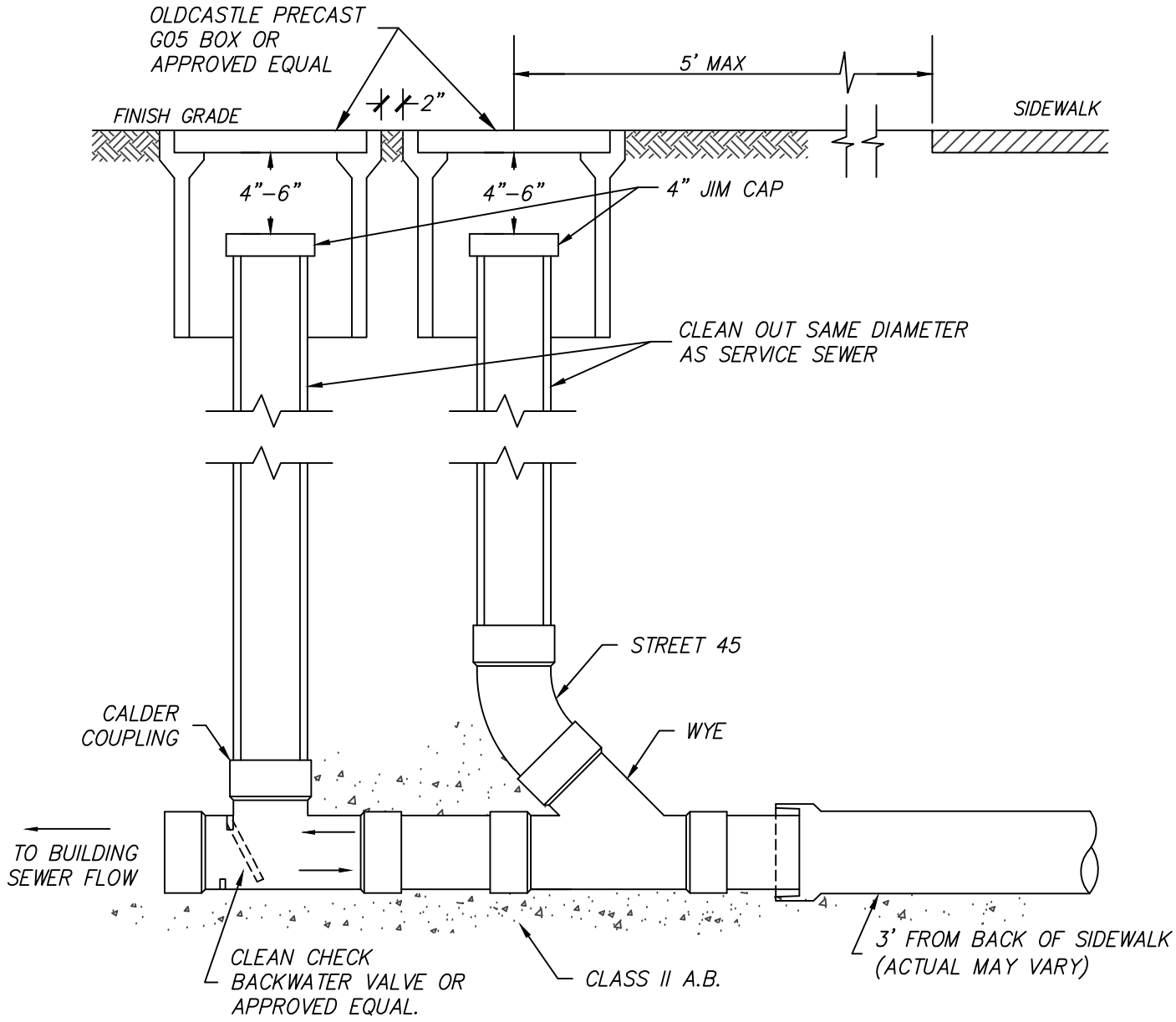
PUBLIC & PRIVATE OWNERSHIP, OPERATION AND MAINTENANCE RESPONSIBILITIES.

CITY OF FOLSOM

CLEANOUT TO GRADE (MAIN SIGNIFICATLY DEEPER THAN LATERAL)

SCALE: NONE
DATE: JANUARY 2024

SS–12



NOTES:

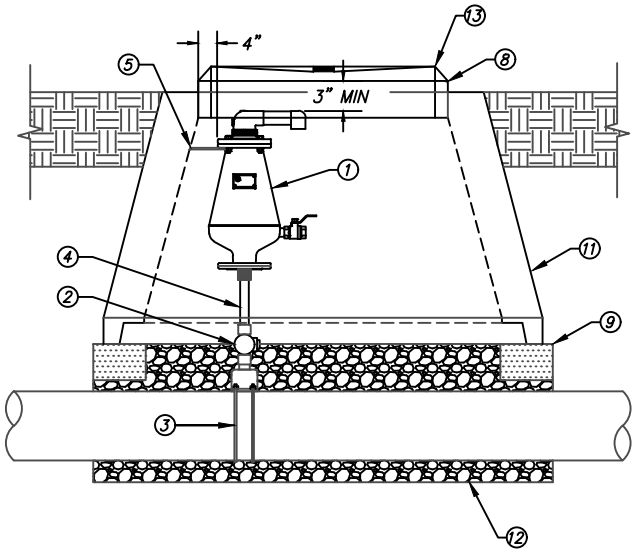
1. CLEAN OUT GRADE SHALL BE PVC SDR–26 (ASTM F679).
2. FOR ALL SERVICES, INSTALL ROUND, CONCRETE TRAFFIC TYPE OLDCASTLE PRECAST G05 BOX OR APPROVED EQUAL VALVE BOX WITH CAST IRON COVER MARKED "SEWER".
3. IF WATER MAIN IS TO BE INSTALLED AT THE BACK OF THE SIDEWALK, SEWER CLEANOUT LOCATION TO BE DETERMINED IN THE FIELD BY THE CITY.
4. DEPTH AT PROPERTY LINE SHOULD BE 4' MINIMUM, 5' MAXIMUM. EXISTING CONDITIONS MAY VARY.
5. STAND PIPE CAULDERED TO BACKFLOW VALVE AND BROUGHT TO GRADE WITH BOX ON ALL VALVES DEEPER THAN 30".
6. BACKFLOW VALVE TO BE CLEAN CHECK BACKWATER VALVE OR APPROVED EQUAL.
7. REFER TO FOLSOM MUNICIPAL CODE 13.08 FOR PUBLIC & PRIVATE OWNERSHIP, OPERATION AND MAINTENANCE RESPONSIBILITIES.

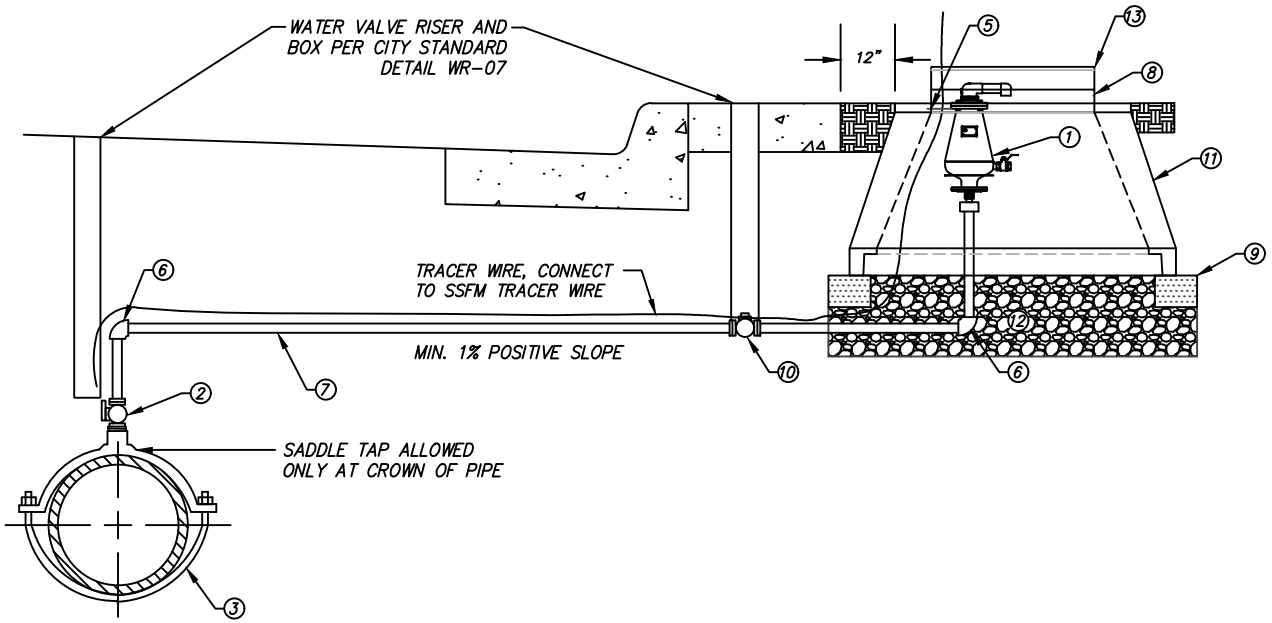
CITY OF FOLSOM

CLEANOUT TO GRADE (WITH BACKFLOW PREVENTER)

SCALE: NONE
DATE: JANUARY 2024

SS–13





COMBINATION AIR RELEASE VALVE FOR SEWER FORCE MAIN

NOTES:

1. ARV TO BE STAINLESS STEEL, INCLUDING ALL INTERNAL PARTS.
2. OUTLET TO HAVE 1-1/2" THREADED DISCHARGE OUTLET FOR THE CONNECTION OF A VENT HOSE/PIPE.
3. ARV TO BE MANUFACTURED WITH A FLANGED END.
4. ALL FITTINGS ARE TO BE THE SAME AS PIPE MATERIAL.
5. MAINTAIN A GRADE UPWARD FROM SADDLE TAP TO AIR VALVE (NO TRAPS).
6. PIPING SIZED TO MATCH SIZE OF ARV.
7. ALL AIR RELEASE VALVES ARE TO BE COMBINATION RELEASE VALVES.

LEGEND:

(1) ARV TO BE A.R.I. D-020 COMBINATION AIR VALVE OR APPROVED EQUAL
(2) 3" FLANGED STAINLESS STEEL PLUG VALVE WITH 2" SQUARE NUT ACTUATOR MOUNTED VERTICALLY, DEZURIK MODEL PEC OR APPROVED EQUAL, REDUCE TO ARV SIZE AS NEEDED AFTER THE PLUG VALVE
(3) STAINLESS STEEL DOUBLE STRAP SADDLE TAP, ROMAC MODEL 305 OR APPROVED EQUAL WITH 3"X3" SCH 40 SST MPT NIPPLE AND 3" FLANGE X FPT
(4) ADAPTER
(5) SCH. 40 SST PIPE, WRAPPED WITH 20 MIL TAPE STAINLESS STEEL SUPPORT BAND-SECURE TO ARV AND SIDEWALL OF SSMH
(6) LONG RADIUS ELBOW, SAME AS PIPE MATERIAL
(7) SCH. 40 STAINLESS STEEL PIPE, WRAPPED WITH
(8) 20 MIL TAPE, MIN 1% POSITIVE SLOPE
(9) 3" GRADE RING, AS NEEDED
(10) STANDARD MASONRY SUPPORT (BRICK), TYP.
STAINLESS STEEL BALL VALVE OR PLUG VALVE WITH
(11) SQUARE NUT ACTUATOR
(12) SSMH CONE, 60"X36"X36"
3/4" CRUSHED ROCK. FILL TO BOTTOM OF MANHOLE
(13) CONE
GMI COMPOSITE FRAME & COVER, OR APPROVED EQUAL

CITY OF FOLSOM

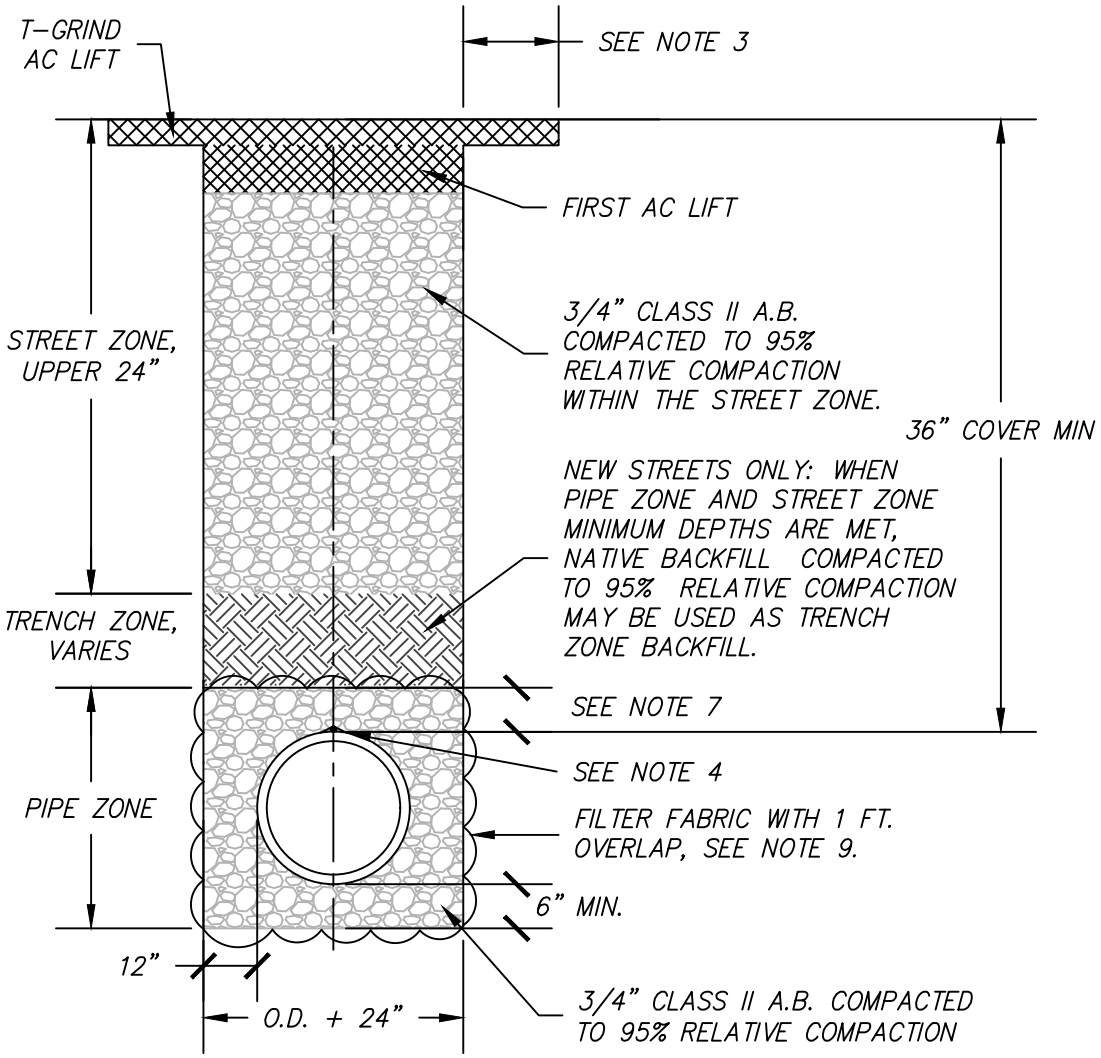
1"-3" COMBINATION AIR RELEASE VALVE FOR SEWER FORCE MAINS

SCALE: NONE
DATE: JANUARY 2024

SS-14

NOTES:

1. MATCH EXISTING A.C. THICKNESS: 4" MINIMUM.
2. T-GRIND REQUIRED FOR ALL PAVEMENTS (12" MINIMUM WIDTH). 1½" DEEP GRIND AND PAVE TO THE LIP OF GUTTER, LANE LINE, OR CENTER OF ADJACENT TRAFFIC LANE (WHICHEVER IS APPLICABLE).
3. #10 TRACER WIRE REQUIRED FOR SEWER FORCE MAINS PER CITY SPECIFICATIONS.
4. BACKFILL SHALL BE MECHANICALLY CONSOLIDATED AND SHOVEL SLICED UNDER THE HAUNCHES OF THE PIPE. SEE CITY SPECIFICATIONS FOR BACKFILL AND COMPACTION REQUIREMENTS.
5. 6" WIDE (MINIMUM) NON-DETECTING GREEN MARKING TAPE, 18" ABOVE PIPE TO READ "BURIED SEWER MAIN".
6. PIPE ZONE COVER OVER THE TOP OF SEWER MAINS SHALL BE A MINIMUM OF 12". RELATIVE COMPACTION SHALL OCCUR IN MAXIMUM 8" LOOSE HEIGHTS.
7. WHEN INSTALLING SEWER MAINS INTO EXISTING STREETS, TRENCHES SHALL CONSIST OF 3/4" CLASS II A.B. THROUGH THE ENTIRE DEPTH.
8. IN AREAS OF FLOWING GROUNDWATER, FILTER FABRIC SHALL BE PLACED AROUND THE PIPE ZONE BEDDING AND SHADING IN ACCORDANCE WITH THE ON-SITE GEOTECHNICAL ENGINEER, AS WELL AS METHODS FOR COLLECTING AND CONVEYING GROUNDWATER AWAY FROM UNDERGROUND ROADWAY AND INFRASTRUCTURE PER GEOTECHNICAL ENGINEER.
9. PIPE ZONE MATERIAL:
   - 9.1. ¾" CLASS II A.B. COMPACTED TO 95% RELATIVE COMPACTION FOR STANDARD TRENCH DEPTH (3'-15') WITH NO GROUNDWATER CONCERN AND NATIVE SOIL TRENCH BASE.
   - 9.2. ¾" CLASS II A.B. PLACED ON FILTER FABRIC COMPACTED TO 95% RELATIVE COMPACTION FOR STANDARD TRENCH DEPTH (3'-15') WITH NO GROUNDWATER CONCERN AND FRACTURED OR COBBLE TRENCH BASE.
   - 9.3. MIXED AGGREGATE (MA) IS ALLOWED IN THE PIPE ZONE WHEN GROUNDWATER IS PRESENT. THE MA MUST BE WRAPPED IN FILTER FABRIC WITH CUTOFF WALLS AND SUB-DRAIN ROUTING TO PREVENT INFLOW/INFILTRATION AT SEWER MANHOLES. TRANSITION FROM MA TO ¾" CLASS II A.B. SHALL OCCUR WITHIN THE PIPE ZONE ONCE GROUNDWATER IS NO LONGER PRESENT AND 95% COMPACTION OF THE ¾" CLASS II A.B. CAN BE ACHIEVED.
   - 9.4. ALL DEEP SEWERS GREATER THAN 15' OF VERTICAL TRENCH EXCAVATION WILL USE MA WRAPPED IN FILTER FABRIC.

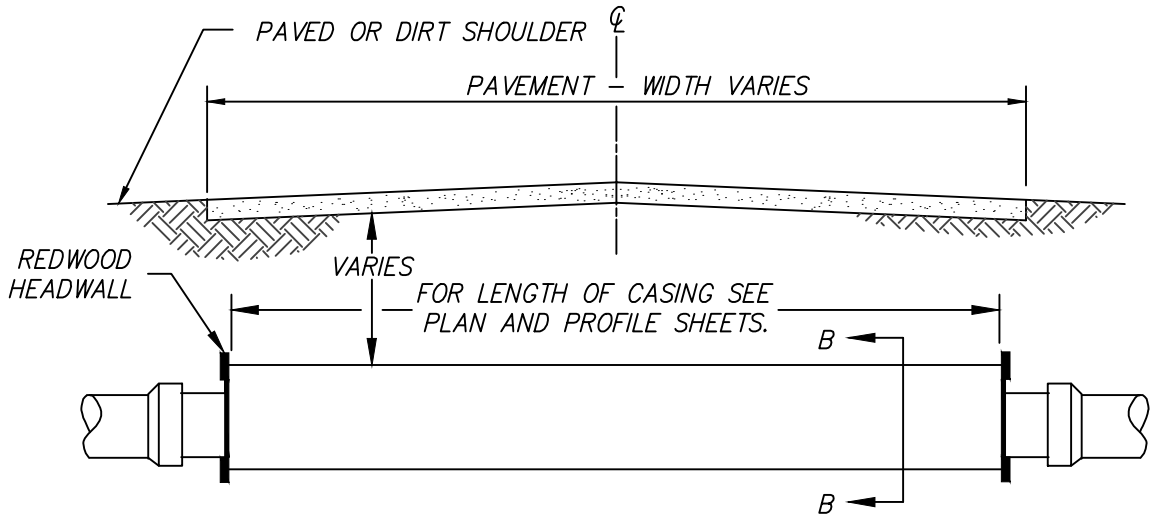


CITY OF FOLSOM

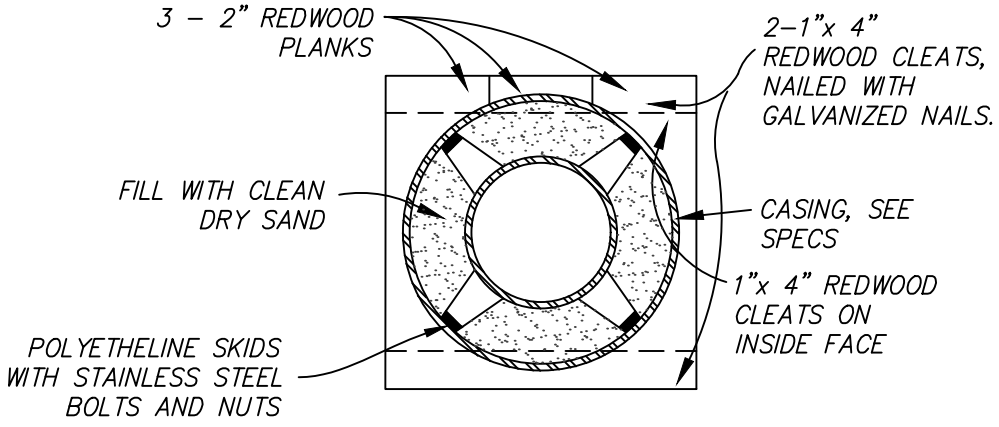
SEWER SYSTEM PIPE BEDDING FOR MAINS AND SERVICES

SCALE: NONE
DATE: JANUARY 2024

SS-15



PROFILE



SECTION B

NOTE:

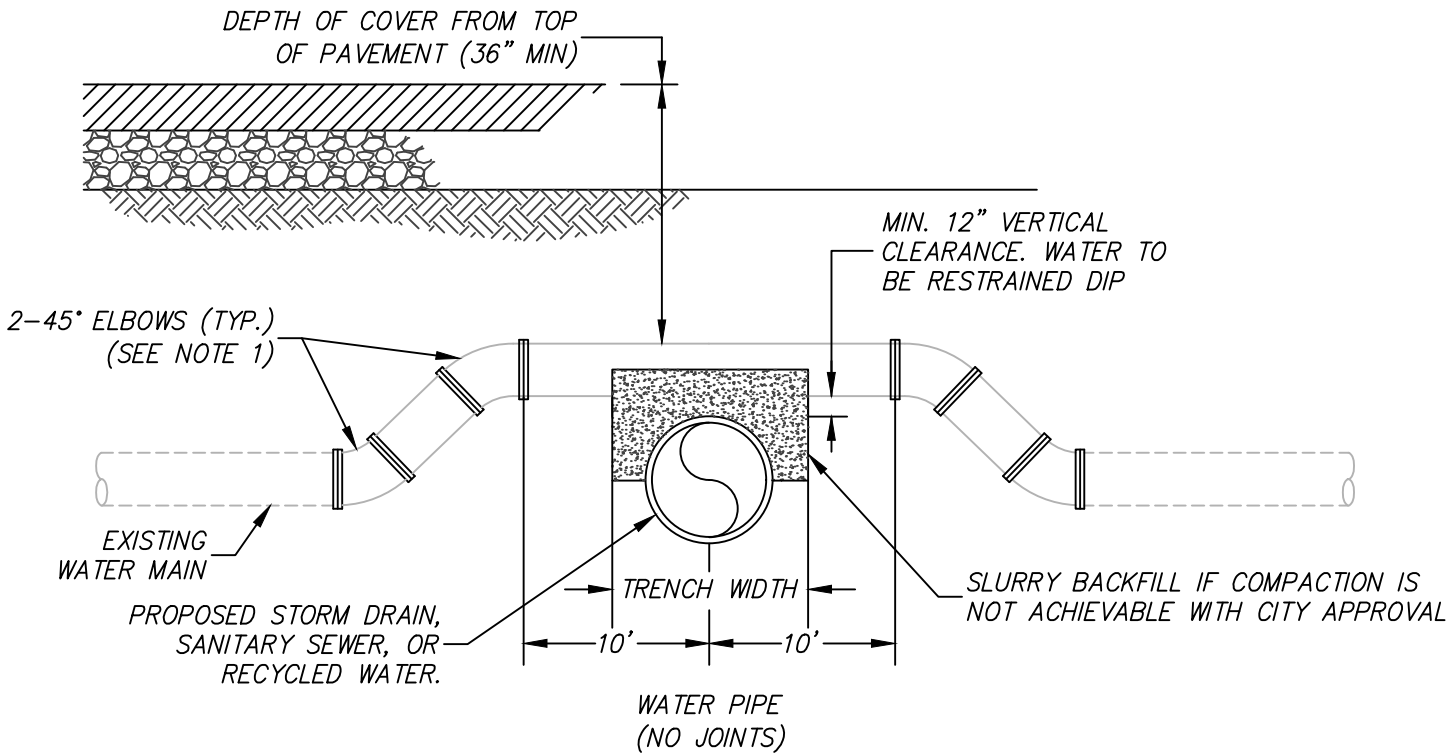
1. IN LIEU OF 3–2" REDWOOD PLANKS, HEADWALL MAY BE REDWOOD PLYWOOD AND OF A THICKNESS APPROVED BY THE ENGINEER.
2. PIPE INSIDE CASING SHALL BE FULLY RESTRAINED DUCTILE IRON WITH PROTECTO 401 COATING.
3. CASING SHALL BE DOUBLE WRAPPED IN 8–MIL POLYETHYLENE FILM PER CITY SPECIFICATIONS AND THE PIPE MUST EXTEND 12" BEYOND THE CASING AT EACH END OF THE CASING.

CITY OF FOLSOM

PIPE ENCASEMENT

SCALE: NONE
DATE: JANUARY 2024

SS–16

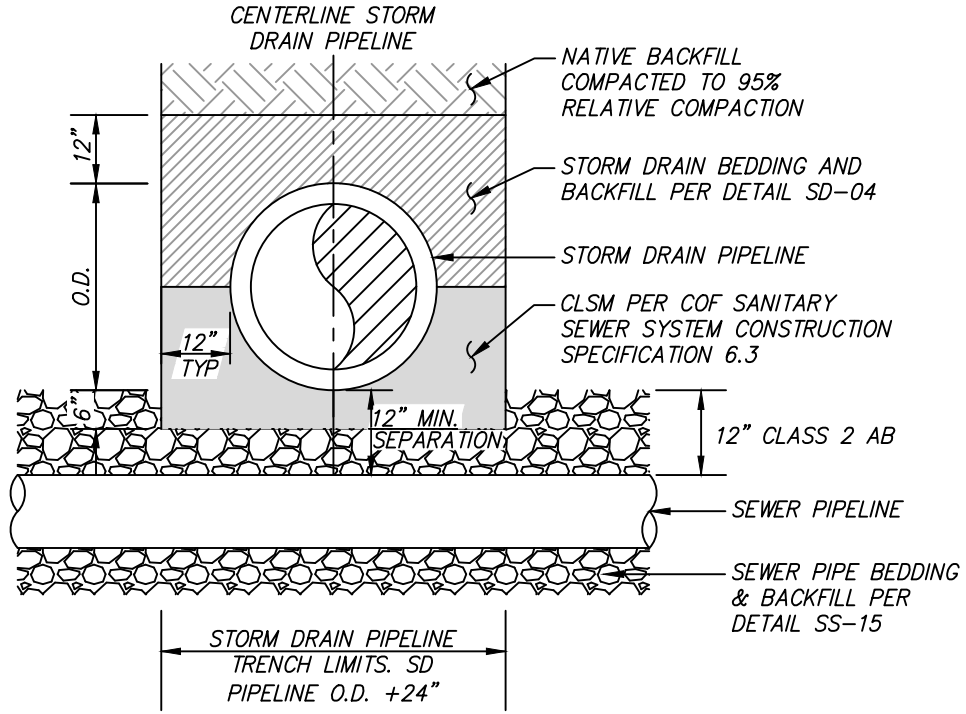


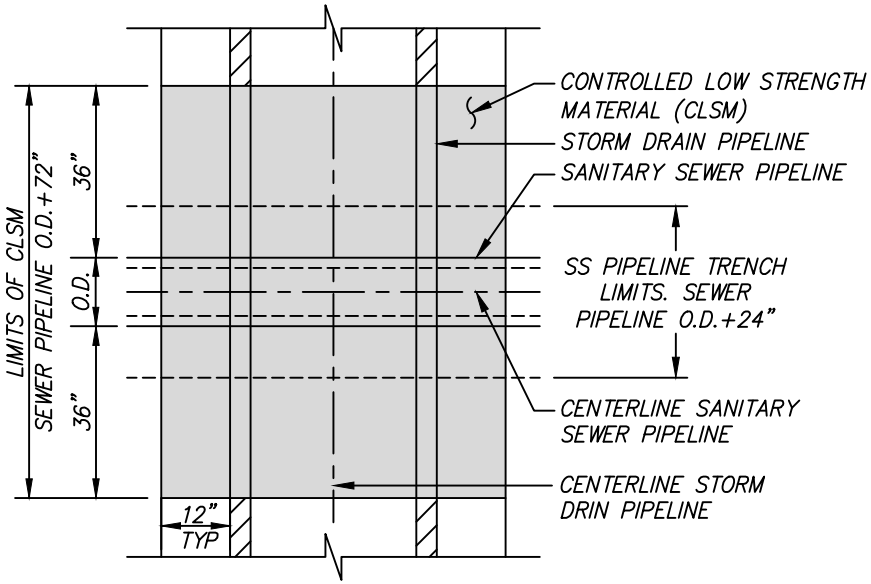
RAISE WATER MAIN

NOTES:

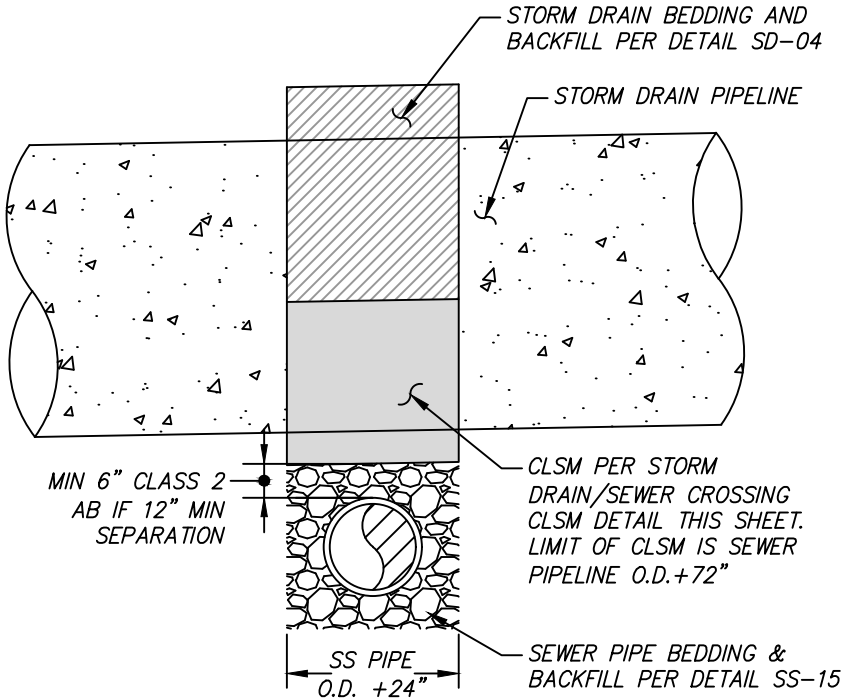
1. THRUST BLOCKS OR JOINT HARNESSES FOR RESTRAINING JOINTS NOT SHOWN.
2. NO WATER SERVICES ALLOWED ALONG THE RAISED LENGTH OF WATER MAIN.
3. NEW SEWER OR RECYCLED WATER PIPE INSTALLATIONS SHALL BE CENTERED UNDER THE WATER MAIN CROSSING TO ELIMINATE JOINTS NEAR THE WATER MAIN.
4. FOR ADDITIONAL INFORMATION ON UTILITIES THAT CROSS POTABLE WATER LINES, REFER TO STATE WATER RESOURCES CONTROL BOARD, DIVISION OF DRINKING WATER (DDW).
5. SEWER CROSSING TO BE DUCTILE IRON PIPE LINED WITH PROTECTO 401 OR APPROVED EQUAL. DIP SHALL BE DOUBLE WRAPPED IN 8-MIL POLYETHYLENE FILM PER CITY SPECIFICATIONS.
6. ANY NON-POTABLE UTILITY THAT IS PROPOSED TO CROSS OVER A POTABLE WATER WILL REQUIRE A VARIANCE FROM THE DDW. PROJECTS THAT ARE CONSTRUCTED IN VIOLATION OF A DDW REQUIREMENT AND WITHOUT A DDW WAIVER WILL NOT BE APPROVED BY THE CITY AND CONNECTION TO THE CITY'S WATER SYSTEM WILL BE DENIED.

CITY OF FOLSOM	
WATER MAIN AND OTHER WET UTILITY CROSSINGS	
SCALE: NONE **DATE: JANUARY 2024**	SS-18





STORM DRAIN/SEWER CROSSING CLSM DETAIL



CLSM TRENCH DETAIL

CITY OF FOLSOM

SANITARY SEWER AND STORM DRAIN CROSSING

SCALE: NONE
DATE: JANUARY 2024

SS-20