

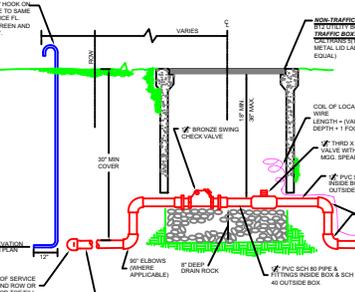
NOTES

1. MINIMUM COVERAGE FROM TOP OF PIPE TO FINISH GRADE SHALL BE 36 INCHES OR AS OTHERWISE APPROVED ON THE PLANS.
2. IN WET OR ROCKY MATERIAL THE DEPTH OF TRENCH BEDDING SHALL BE INCREASED TO THE LARGER OF EITHER 6 INCHES OR 1/3 DIAMETER.
3. IN AREA WITH LESS THAN 30 INCHES OF COVER, INTERMEDIATE BACKFILL SHALL BE CLASS 2 AGGREGATE BASE 95% COMPACTION.
4. IN AREA OF NATURAL VEGETATION OR LANDSCAPING, REMOVE TOP 12 INCHES OF MATERIAL, STOOPPILE AND REPLACE IN A MOUND.
5. SHOVEL SLICE BEDDING MATERIAL UNIFORMLY UNDER PIPE IN HAUNCH AREA. SHOVEL SLICING SHALL BE COMPLETED BEFORE THE BEDDING IS BROUGHT UP TO THE PIPE SPRINGLINE AND PREFERABLY WHEN IT IS NO HIGHER THAN THE QUARTER POINT OF THE PIPE.
6. COMPACTION TESTING WITHIN THE PIPE ZONE (BOTTOM OF TRENCH TO 12 INCHES ABOVE CONDUIT(S)) SHALL PERFORMED BY A TESTING LAB APPROVED BY THE COUNTY OR BY THE COUNTY AND REIMBURSED BY THE APPLICABLE DEVELOPER.
7. DETECTOR LOCATOR TAPE REQUIRED ON ALL SEWER PIPES. GRAVITY, PRESSURE AND SERVICES PER SECTION 71-1.05 OF THE PLACER COUNTY GENERAL SPECIFICATIONS. THE TAPE SHALL BE 3" MINIMUM WIDTH AND SHALL HAVE A WARNING LABELS STATING "CAUTION SERVICE".
8. LOCATOR WIRE REQUIRED ONLY ON FORCE MAINS AND LOW PRESSURE SEWER PIPES AND ON GRAVITY LINES THAT ARE OFF ROAD AS DETERMINED BY THE DISTRICT SANITARY ENGINEER PER SECTION 71-1.05 OF THE PLACER COUNTY GENERAL SPECIFICATIONS AND SHALL BE #10 AWG THIN SOLID COPPER WIRE. LOCATOR WIRE SHALL BE CONTINUOUS AND HAVE TESTING LOOP(S) AT ALL FORCE MAIN VALVES/BOXES AND TERMINATED IN A QS TRAFFIC BOX JUST BEFORE THE DISCHARGE MANHOLE.
9. ROAD RESTORATION REQUIREMENTS ARE PER PLACER COUNTY PLATES U-26.1 AND U-26.2 OR AS SHOWN ON PLANS.
10. 2" THROUGH 4" SEWER MAINS SHALL BE SCHEDULE 40 PVC PER ASTM D1785 WITH INTEGRAL BELLS, SOLVENT WELDS, AND SOLVENT WELD SCHEDULE 40 FITTINGS, EXCEPT AS OTHERWISE SHOWN ON PLAN DETAILS. 4" SEWERS SHALL BE CLASS 150, ANVIA 2000 PVC WITH CAST IRON OR DUCTILE IRON MANHOLE FITTINGS CONFORMING TO ANVIA C119 AND C113. C11 OR C13 FITTINGS SHALL HAVE A POLYETHYLENE LINER CONFORMING WITH ASTM D2426. FITTING WITH LINER PREPARATION AND APPLICATION SHALL BE EQUAL TO US PIPE'S POLY-LINED FITTING.
11. REFER TO LOCATOR WIRE SPICE DETAIL.
12. REFER TO THE SPECIFICATIONS FOR SOLVENT WELD INSTALLATION PROCEDURES.
13. THE CONTRACTOR SHALL PERFORM A CONTINUITY TEST ON THE LOCATOR WIRE PRIOR TO THE TIME OF THE FINAL WALK-THROUGH. CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED FOR TESTING THE CONTINUITY OF THE LOCATOR WIRE AT EACH VALVE, AVARY, AND OTHER LOCATIONS WHERE THE LOCATOR IS ACCESSIBLE. IF CONTINUITY IS NOT PRESENT AND/OR OBSERVED, THE CONTRACTOR SHALL REPAIR, REPLACE AND RETEST AS NECESSARY. ENTIRELY AT THE CONTRACTOR'S EXPENSE.



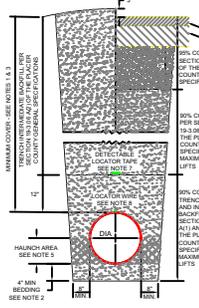
- NOTES**
1. THE WIRE A MINIMUM OF 5 TIMES ON EACH ENDWIRE.
 2. INSTALL SPLIT BOLT CONNECTOR.
 3. COVER THE ENTIRE SPICE WITH MASTIC TAPE WRAP.
 4. WRAP WITH MASTIC TAPE.
 5. SOLDERING MAY BE INCLUDED IN ADDITION TO THE ABOVE REQUIREMENTS.

TYPICAL LOCATOR WIRE SPICE

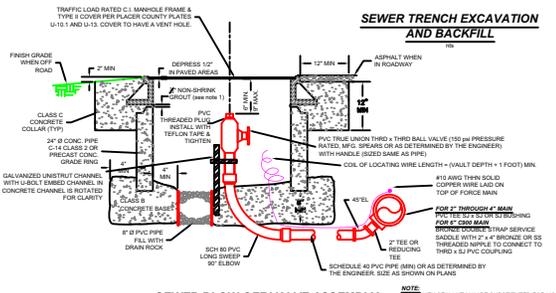


PRESSURE HOUSE SERVICE

- NOTES**
1. CHECK VALVE SHALL BE 85-5.5-5.5 ASTM B82, 200 psi WOG RATED.
 2. SEE CONCRETE FOOTING DETAIL FOR TRAFFIC RATED BOX.
 3. PVC BALL VALVES SHALL BE 150 psi PRESSURE RATED, MFG. BY SPEARS OR APPROVED EQUAL.
 4. REBAR W/ 12" HOOK ON BOTTOM. PLACE TO SAME DEPTH AS SERVICE FL. PAINT FLOOR, GREEN AND EXPOSE TOP 1".
 5. BRONZE SWING CHECK VALVE.
 6. COIL OF LOCATING WIRE LENGTH = VALVE DEPTH + 1 FOOT MIN.
 7. 3" THRD X 3/4" TRU TRU UNION BALL VALVE WITH 1/2" SS OPERATOR NUT MOD. SPEARS, 150 PSI RATED.
 8. 3" PVC SCH 80 PIPE & FITTINGS INSIDE BOX AND SCH 40 OUTSIDE BOX.
 9. 90° ELBOWS (WHERE APPLICABLE).
 10. #10 AWG THIN SOLID COPPER WIRE LAD ON TOP OF FORCE MAIN.
 11. FOR 2" THROUGH 4" MAIN PVC TEES W/ 1/2" SS OPERATOR NUT WITH SJ GASKETS.
 12. FOR 4" CSDO MAIN PVC TRAP SERVICE SADDLE WITH 1/2" 4" BRONZE OR SS THREADED NIPPLE TO CONNECT TO THRD X SJ PVC COUPLING.

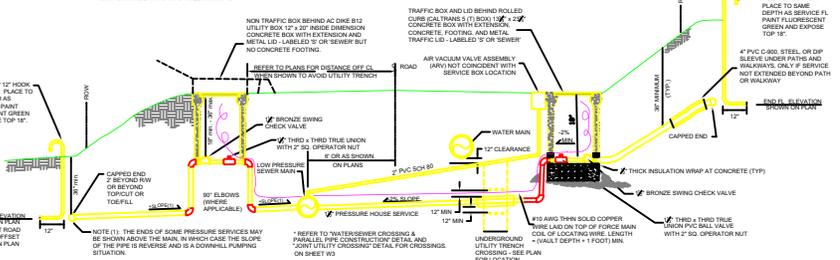


SEWER TRENCH EXCAVATION AND BACKFILL



SEWER BLOW-OFF VALVE ASSEMBLY

- NOTE**
1. NON-SHRINK SEALANT MAY BE SUBSTITUTED FOR NON-SHRINK GROUT.
 2. BRONZE GATE VALVE SHALL BE 85-5.5-5.5 ASTM B82, TCA 721 STEM, 200 psi WOG RATING.
 3. REFERENCE "LINE VALVE AND LOCATING WIRE" DETAIL FOR ADDITIONAL LOCATING WIRE REQUIREMENTS.



LOW PRESSURE SEWER SYSTEM PROFILE

- NOTE (1)**
1. THE ENDS OF SOME PRESSURE SERVICES MAY BE SHOWN ABOVE THE MAN. IN WHICH CASE THE SLOPE OF THE PIPE IS REVERSE AND IS A DOWNHILL PUMPING SITUATION.

- NOTE (2)**
1. REFER TO "WATER-SEWER CROSSING & PARALLEL" USE CONSTRUCTION DETAIL AND "JOIN UTILITY CROSSING" DETAIL FOR CROSSINGS ON SHEET W3.

REGISTERED CIVIL ENGINEER
DISTRICT SANITARY ENGINEER



DATE: 02/20/2020
DRAWN: LONNAMETT
CHECKED: IRON WOOD
APPROVAL: IRON WOOD

PROJECT NO. _____

DEPARTMENT OF FACILITY SERVICES
LOW PRESSURE SEWER SYSTEM DETAILS
PLACER COUNTY, CALIFORNIA

SHEET NO. 2/2