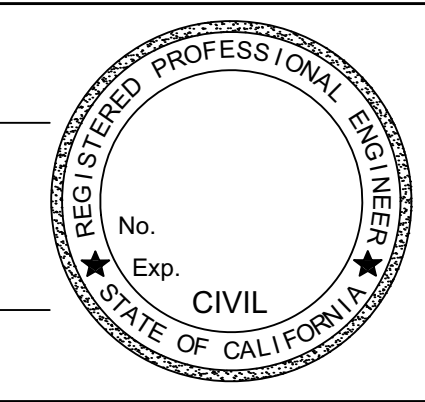


- NOTES:**
1. MINIMUM COVERAGE FROM TOP OF PIPE TO FINISH GRADE SHALL BE 36 INCHES OR AS OTHERWISE APPROVED ON THE PLANS.
  2. IN WET OR ROCKY MATERIAL THE DEPTH OF TRENCH BEDDING SHALL BE INCREASED TO THE LARGER OF EITHER 6 INCHES OR 1/4 DIAMETER.
  3. IN AREAS WITH LESS THAN 30 INCHES OF COVER, INTERMEDIATE BACKFILL SHALL BE CLASS 2 AGGREGATE BASE 95% COMPACTION.
  4. IN AREAS OF NATURAL VEGETATION OR LANDSCAPING, REMOVE TOP 12 INCHES OF MATERIAL, STOCKPILE 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 LABEL STATING "CAUTION SEWER".
  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 THHN SOLID COPPER WIRE. LOCATOR WIRE SHALL BE CONTINUOUS AND HAVE TESTING LOOPS/COILS AT ALL FORCE MAIN VAULTS/BOXES AND TERMINATED IN A G5 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. 6" SEWERS SHALL BE CLASS 150, AWWA C900 PVC, WITH CAST IRON OR DUCTILE IRON M.J. FITTINGS CONFORMING TO AWWA C110 AND C153. C1 OR D1 FITTINGS SHALL HAVE A POLYETHYLENE LINING COMPLYING WITH ASTM D1248. FITTING WITH LINING PREPARATION AND APPLICATION SHALL BE EQUAL TO US PIPE'S POLY-LINED FITTING.
  11. REFER TO LOCATOR WIRE SPLICE 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 LOCATING WIRE AT EACH VALVE, AVRV, 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.

REGISTERED CIVIL ENGINEER  
DISTRICT SANITARY ENGINEER

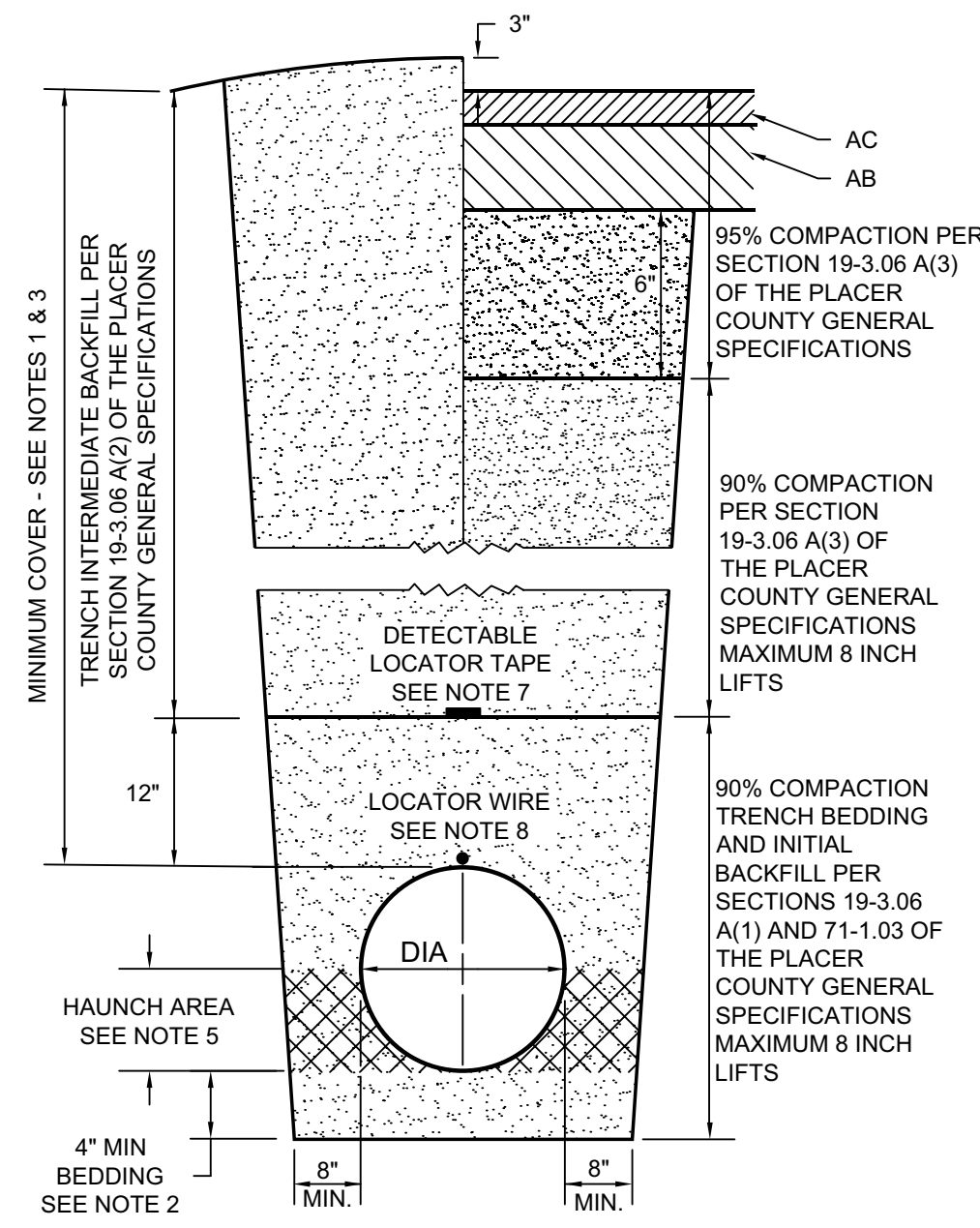
PLAN APPROVAL DATE



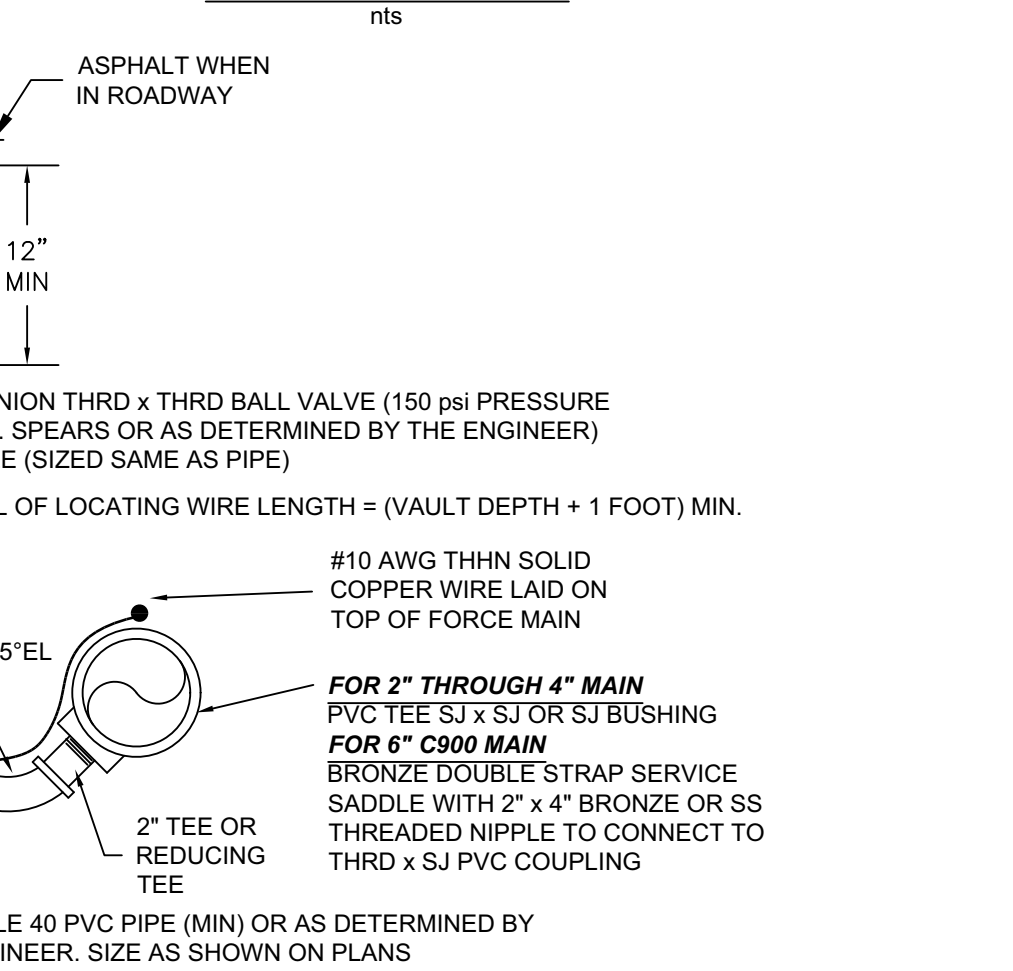
DATE: 2001  
9-2-09  
7-12-01

DESIGNED: RON WOOD  
DRAWN: LORI HAMMETT  
CHECKED: RON WOOD  
AS-BUILT:

PROJECT NO.

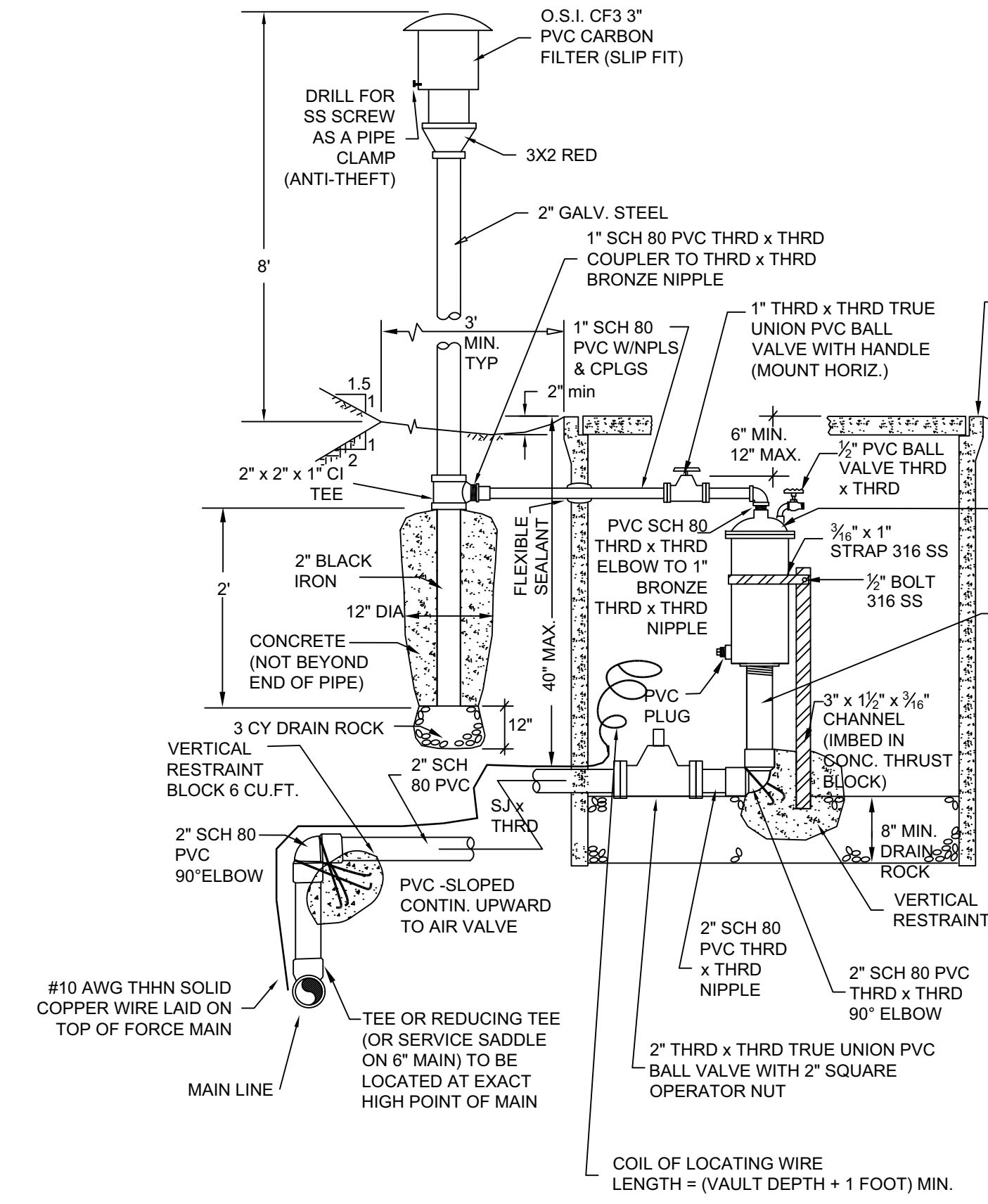


**SEWER TRENCH EXCAVATION AND BACKFILL**



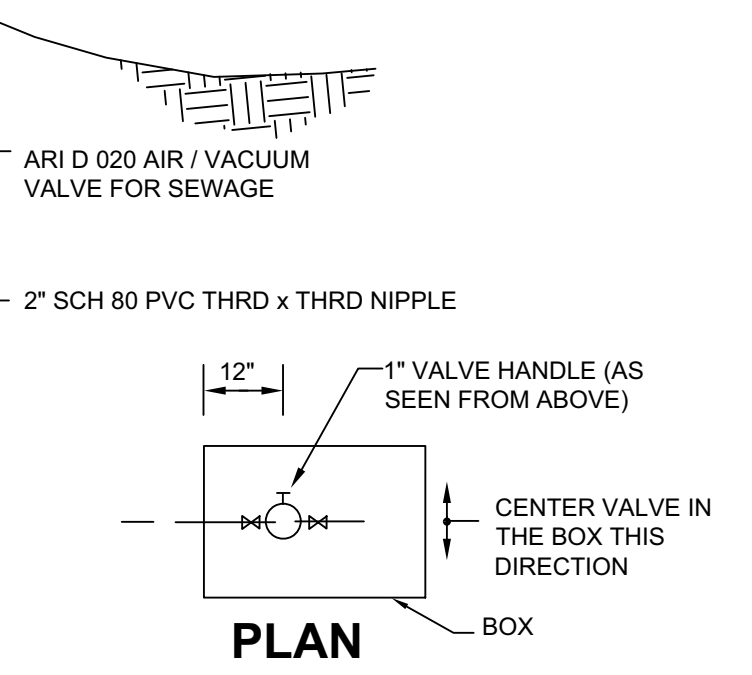
**SEWER BLOW-OFF VALVE ASSEMBLY**

- NOTE:**
1. RAM-NEK SEALANT MAY BE SUBSTITUTED FOR NON-SHRINK GROUT.
  2. BRONZE GATE VALVE SHALL BE 85-5-5 ASTM B62, TCA 721 STEM, 200 psi WOG RATING.
  3. REFERENCE "LINE VALVE AND LOCATING WIRE" DETAIL FOR ADDITIONAL LOCATING WIRE REQUIREMENTS.

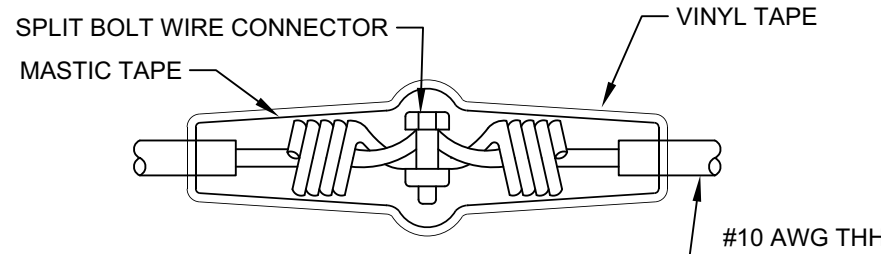


**AIR & VACUUM RELEASE VALVE ASSEMBLY OFF ROADWAY**

- TRAFFIC AREAS:**  
CALTRANS SPEC. 6(T) 24" x 36" PRECAST CONC. BOX WITH TRAFFIC RATED GALV. STEEL COVER AND CONCRETE FOOTING. TOP FLUSH WITH ADJACENT GRADE
- NON TRAFFIC AREAS:**  
CHRISTY N40 28 1/2" x 40 1/2" PRECAST CONC. BOX WITH 1/8" COVER & THREE-10" EXTENSIONS TO ACHIEVE DEPTH OF 44"



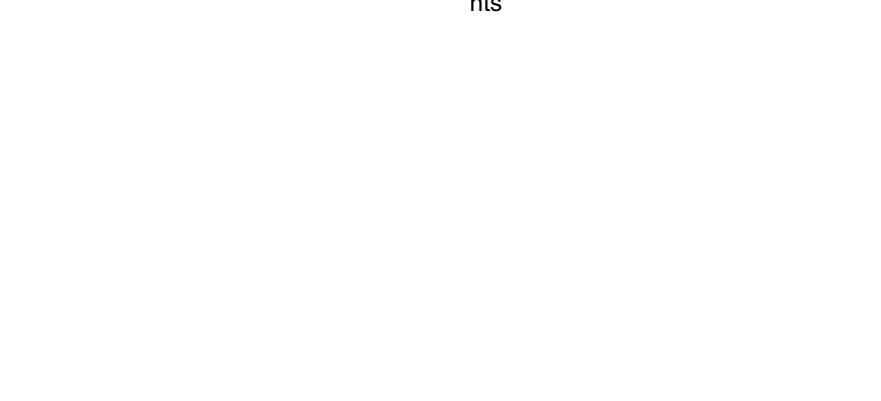
- NOTES:**
1. PVC BALL VALVES SHALL BE 150psi RATED, MFG. BY SPEARS OR APPROVED EQUIVALENT.
  2. CARBON FILTER MANUFACTURER: O.S.I. 841 AIRWAY AVE. SUTHERLIN, OREGON 97479 (541) 459-4449
  3. ALL PLASTIC PIPE AND FITTINGS SHALL BE SCH 80.



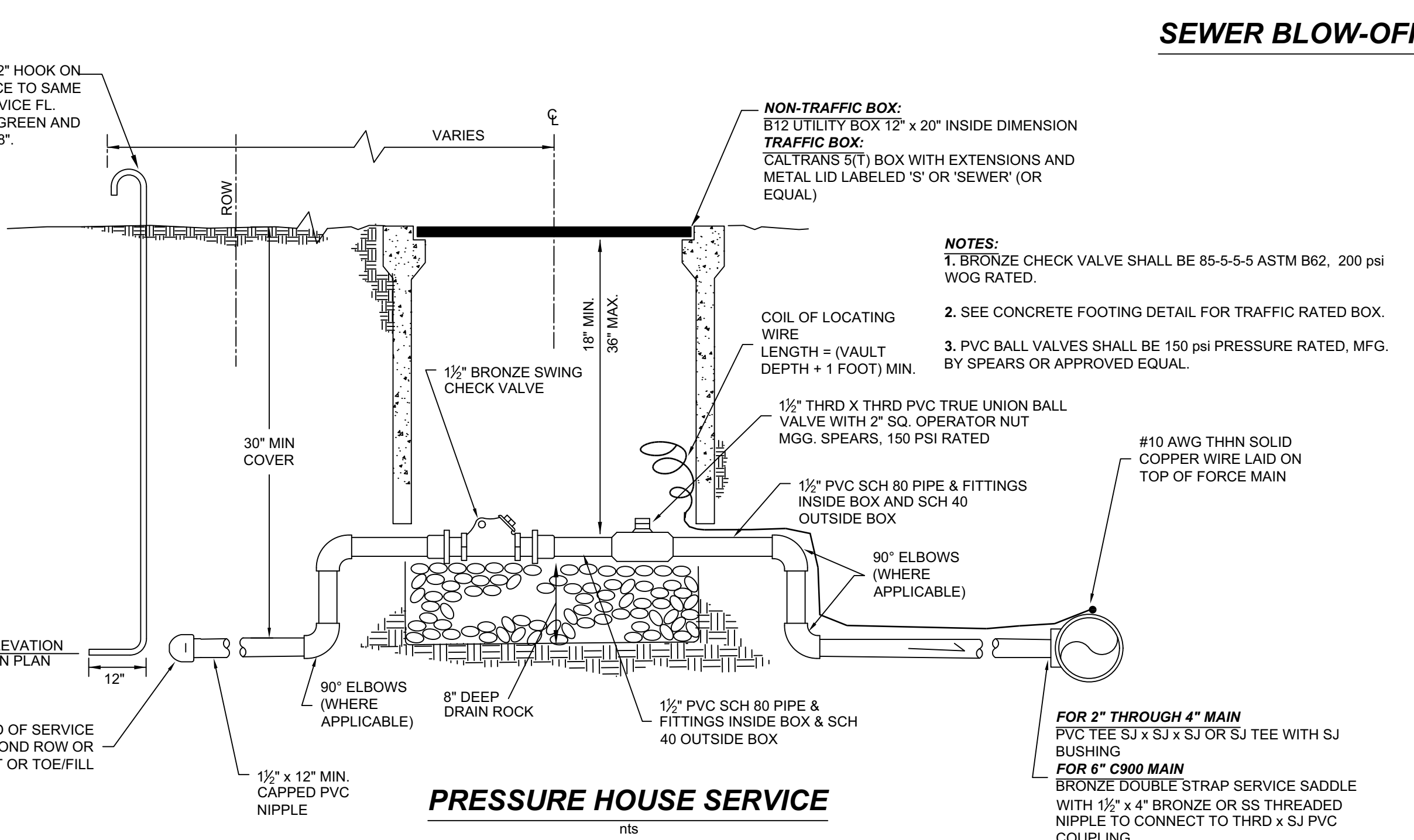
- NOTES:**
1. TWIST THE WIRE A MINIMUM OF 5 TIMES ON EACH ENDWIRE
  2. INSTALL SPLIT BOLT CONNECTOR.
  3. COVER THE ENTIRE SPLICE WITH MASTIC TAPE WRAP.
  4. WRAP WITH MASTIC TAPE.
  5. SOLDERING MAY BE INCLUDED IN ADDITION TO THE ABOVE REQUIREMENTS.

**WESTERN UNION STYLE SPLICE WITH SPLIT BOLT WIRE CONNECTOR**

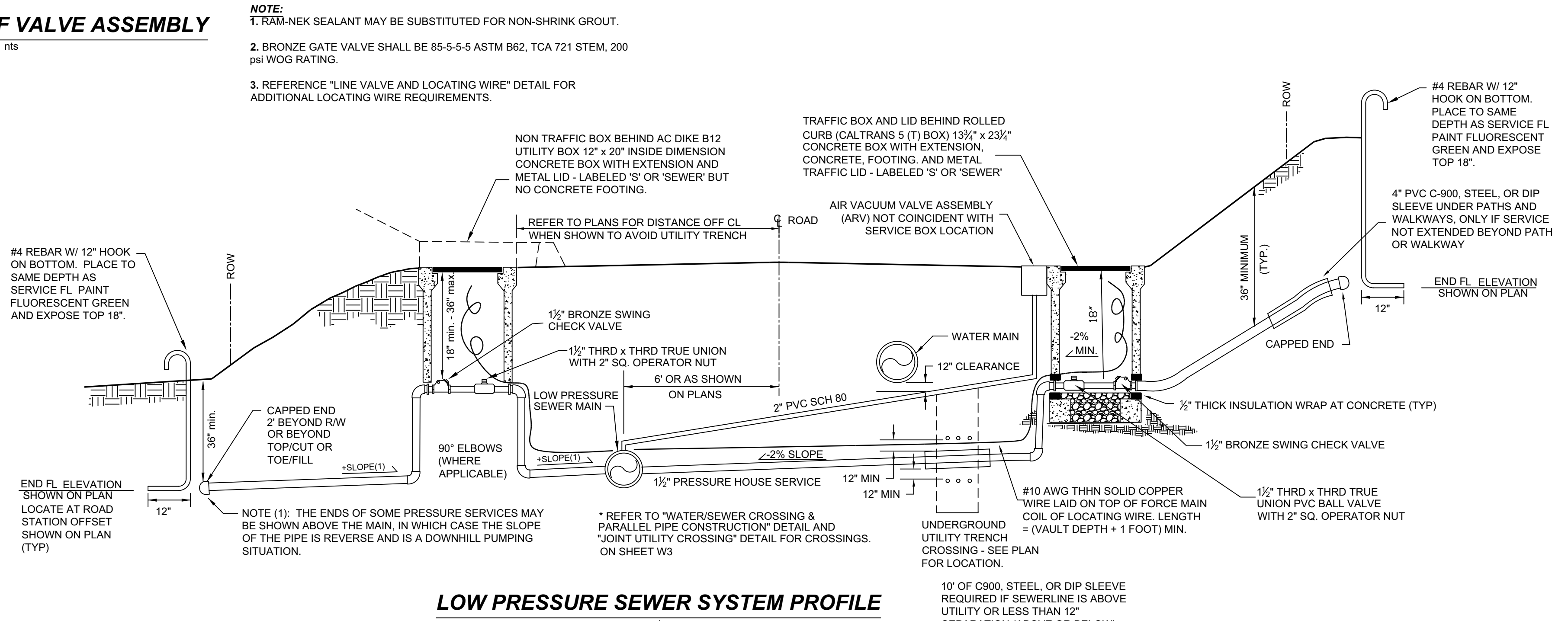
**TYPICAL LOCATOR WIRE SPLICE**



**PRESSURE HOUSE SERVICE**



**LOW PRESSURE SEWER SYSTEM PROFILE**



- NOTE (1):** THE ENDS OF SOME PRESSURE SERVICES MAY BE SHOWN ABOVE THE MAIN, IN WHICH CASE THE SLOPE OF THE PIPE IS REVERSE AND IS A DOWNHILL PUMPING SITUATION.
- \* REFER TO "WATER/SEWER CROSSING & PARALLEL PIPE CONSTRUCTION" DETAIL AND "JOINT UTILITY CROSSING" DETAIL FOR CROSSINGS. ON SHEET W3
- 10' OF C900, STEEL OR DIP SLEEVE REQUIRED IF SEWERLINE IS ABOVE UTILITY OR LESS THAN 12" SEPARATION (ABOVE OR BELOW)

DEPARTMENT OF FACILITY SERVICES

COUNTY OF PLACER

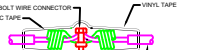
**LOW PRESSURE SEWER SYSTEM DETAILS**

PLACER COUNTY, CALIFORNIA

SHEET NO. 2/2

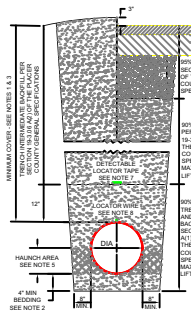
**NOTES**

1. TRENCH 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.
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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, JUNCTION, 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.

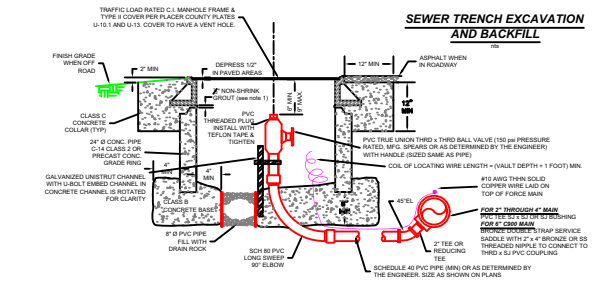


- NOTES**
1. THE WIRE A MINIMUM OF 5 TIMES ON EACH ENDWIRE.
  2. INSTALL SPLIT BOLT CONNECTOR.
  3. COVER THE ENTIRE SPICE WITH MASTIC TAPE WRAP.
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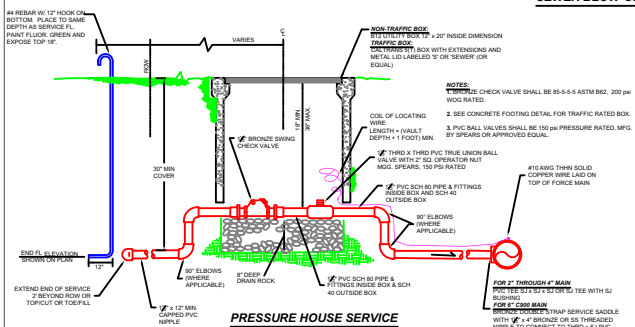
**TYPICAL LOCATOR WIRE SPICE**



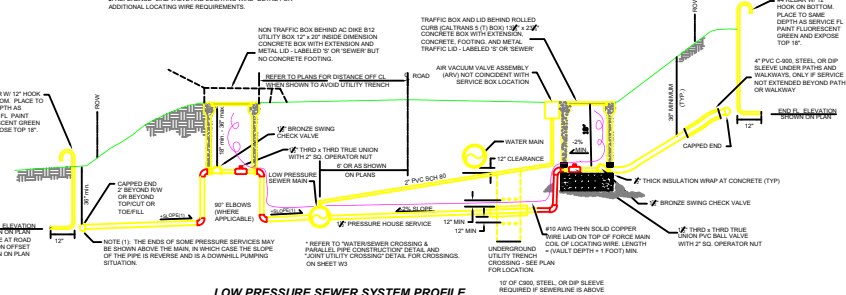
**SEWER TRENCH EXCAVATION AND BACKFILL**



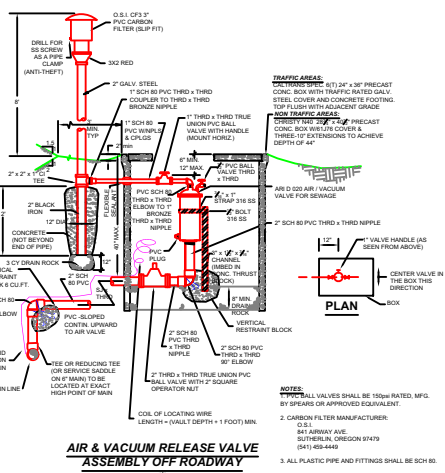
**SEWER BLOW-OFF VALVE ASSEMBLY**



**PRESSURE HOUSE SERVICE**

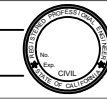


**LOW PRESSURE SEWER SYSTEM PROFILE**



**AIR & VACUUM RELEASE VALVE ASSEMBLY OFF ROADWAY**

REGISTERED CIVIL ENGINEER  
DISTRICT SANITARY ENGINEER



DATE: 08/20/2020  
DRAWN: J. L. WOOD  
CHECKED: J. L. WOOD  
ASUILT: J. L. WOOD

PROJECT NO. \_\_\_\_\_

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

SHEET NO. 2/2