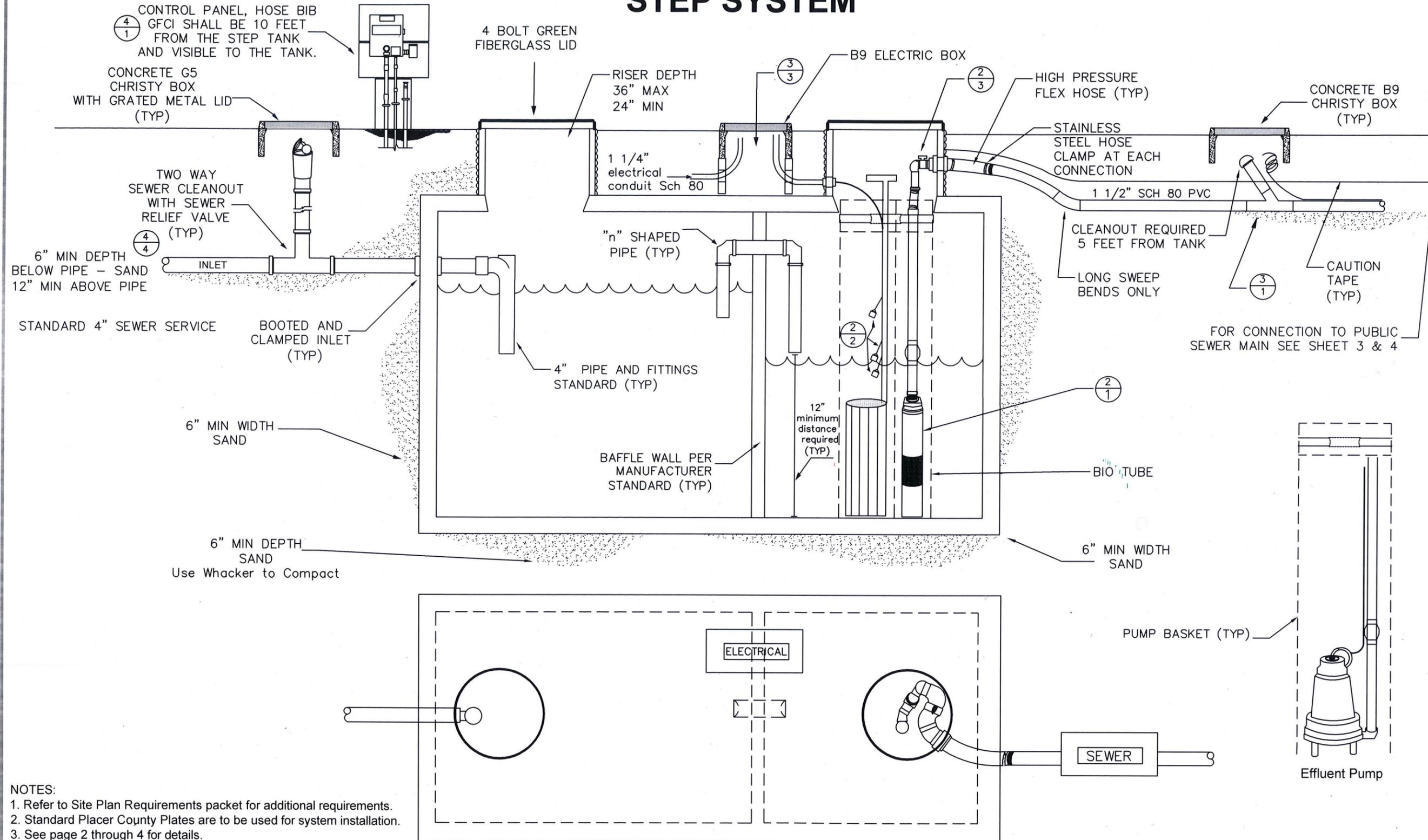


# STEP SYSTEM



- NOTES:**
1. Refer to Site Plan Requirements packet for additional requirements.
  2. Standard Placer County Plates are to be used for system installation.
  3. See page 2 through 4 for details.
  4. Concrete blocks required to bring electrical and sewer cleanout boxes to grade from tank. See detail on sheet 3.
  5. See sheet 4 for the control panel, sewer relief valve and valve box.
  6. Sand bedding for sewer service line low pressure and gravity shall be 6 inch depth of sand below pipe, 12 inch sand above pipe.

No.	Revision	Description	Date	Approved

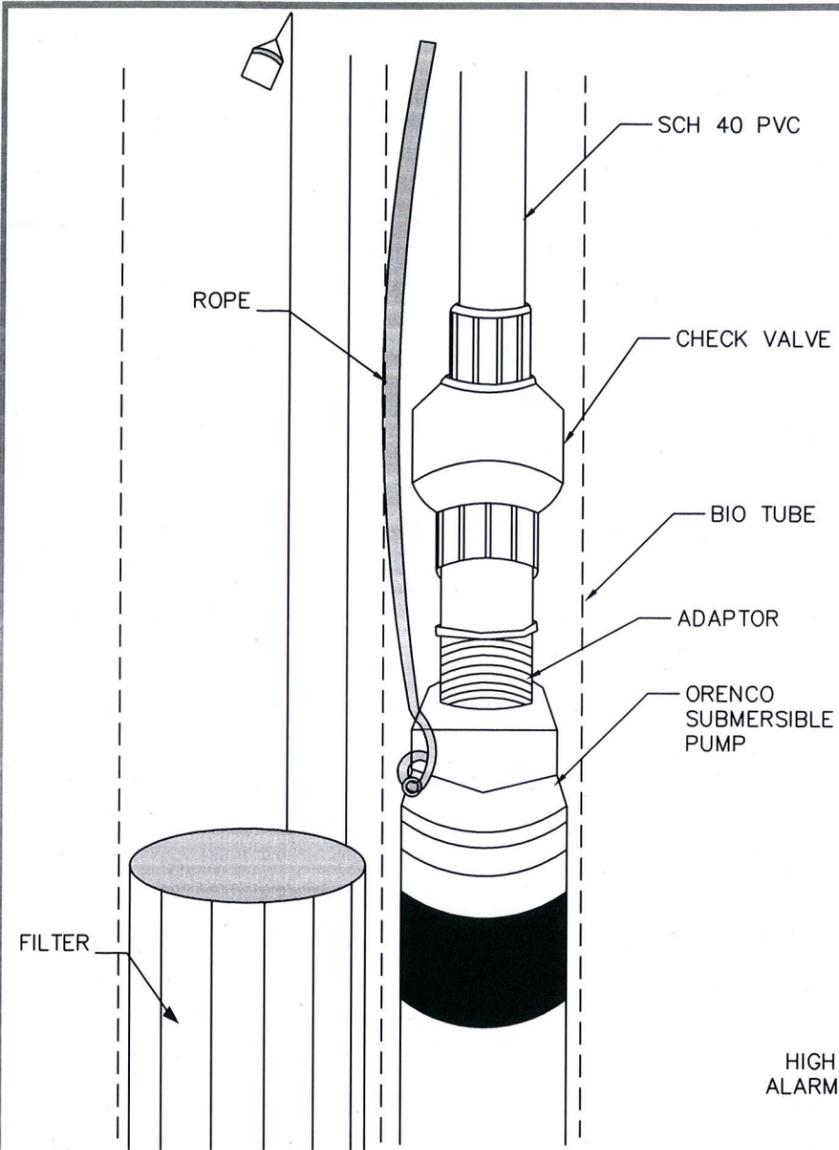


PLACER COUNTY CALIFORNIA  
 DEPARTMENT OF FACILITY SERVICES  
 SEPTIC TANK EFFLUENT PUMP SYSTEM (STEPS)  
 Specifications  
 REVISED 11/2/2018

DATE: 9/10/2014  
 DESIGN: KA  
 DRAW: KA  
 CHECK:

DATE: 10/31/13  
 CONSTRUCTION CONTRACT NO.  
 CONTRACT #  
 PROJECT NO.  
 N/A  
 SCALE  
 HORIZ: N/A  
 VERT: N/A  
 SCALE REFERENCE  
 0 1"

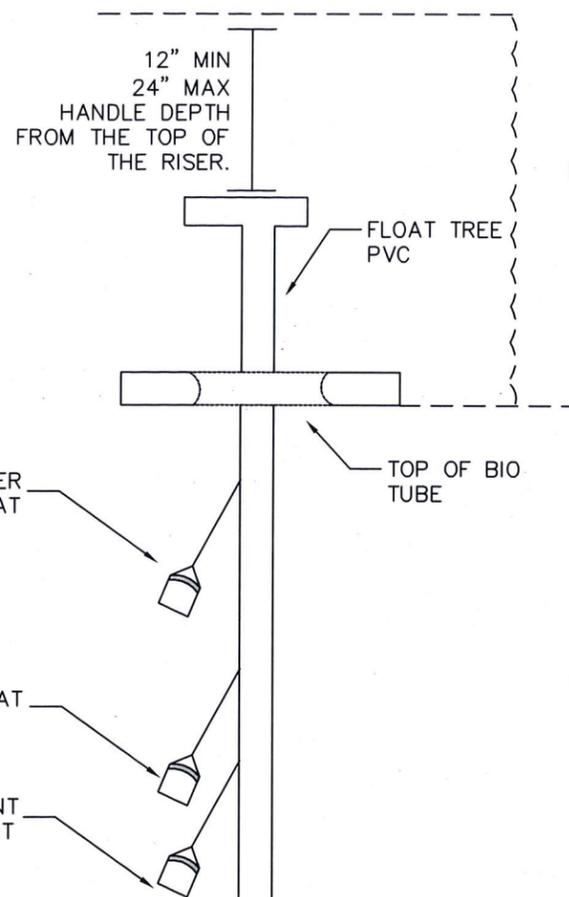
DRAWING  
 SHEET NO.  
 1



### SUBMERSIBLE PUMP DETAIL

2  
1  
NOT TO SCALE

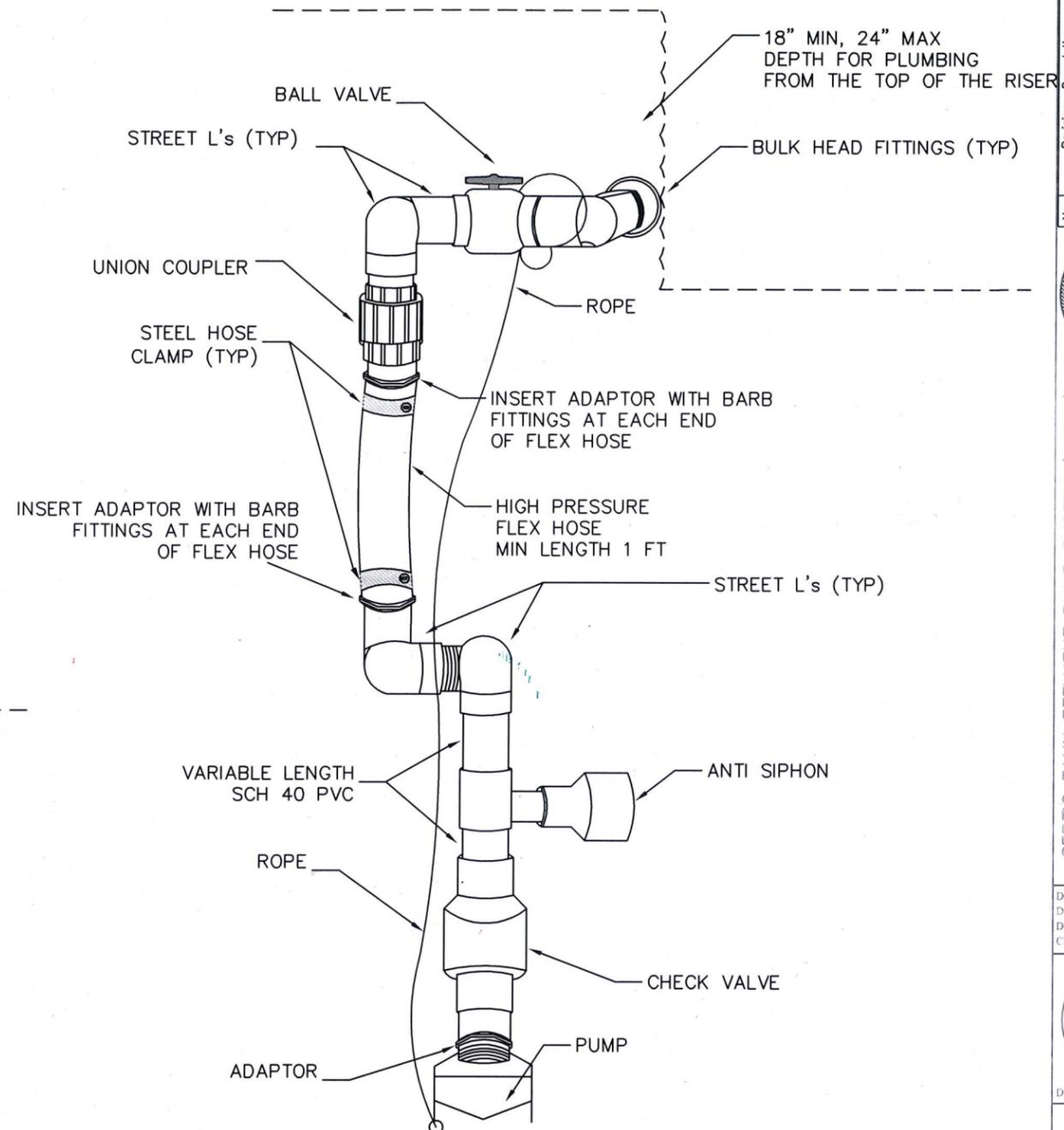
- NOTES:
1. The submersible pump requires a bio tube and filter.
  2. A nylon rope or fish tape shall be attached to the pump and tied off at the discharge side of the ball valve.



### FLOAT TREE ASSEMBLY

2  
2  
NOT TO SCALE

- NOTES:
1. When using a CTRO panel a redundant off "x" float is required.



### EFFLUENT PIPING

2  
3  
NOT TO SCALE

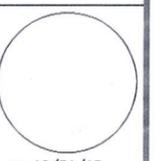
- NOTES:
1. PVC sections vary in length.
  2. High Pressure Flex Hose minimum length required is 1 foot.

No.	Revision	Description	Date	Approved



SEPTIC TANK EFFLUENT PUMP SYSTEM (STEP 2)  
DETAILS  
REVISED 11/2/2018  
PLACER COUNTY CALIFORNIA DEPARTMENT OF FACILITY SERVICES

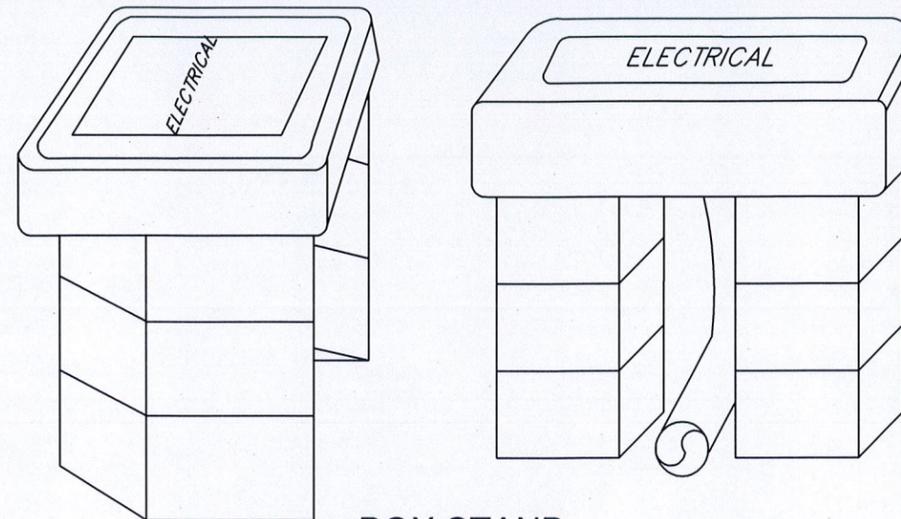
DATE: 9/10/2014  
DESIGN: KA  
DRAW: KA  
CHECK:



DATE: 10/31/13  
CONSTRUCTION CONTRACT NO  
CONTRACT #  
PROJECT NO  
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SCALE  
HORIZ: N/A  
VERT: N/A  
SCALE REFERENCE  
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DRAWING  
SHEET NO  
2

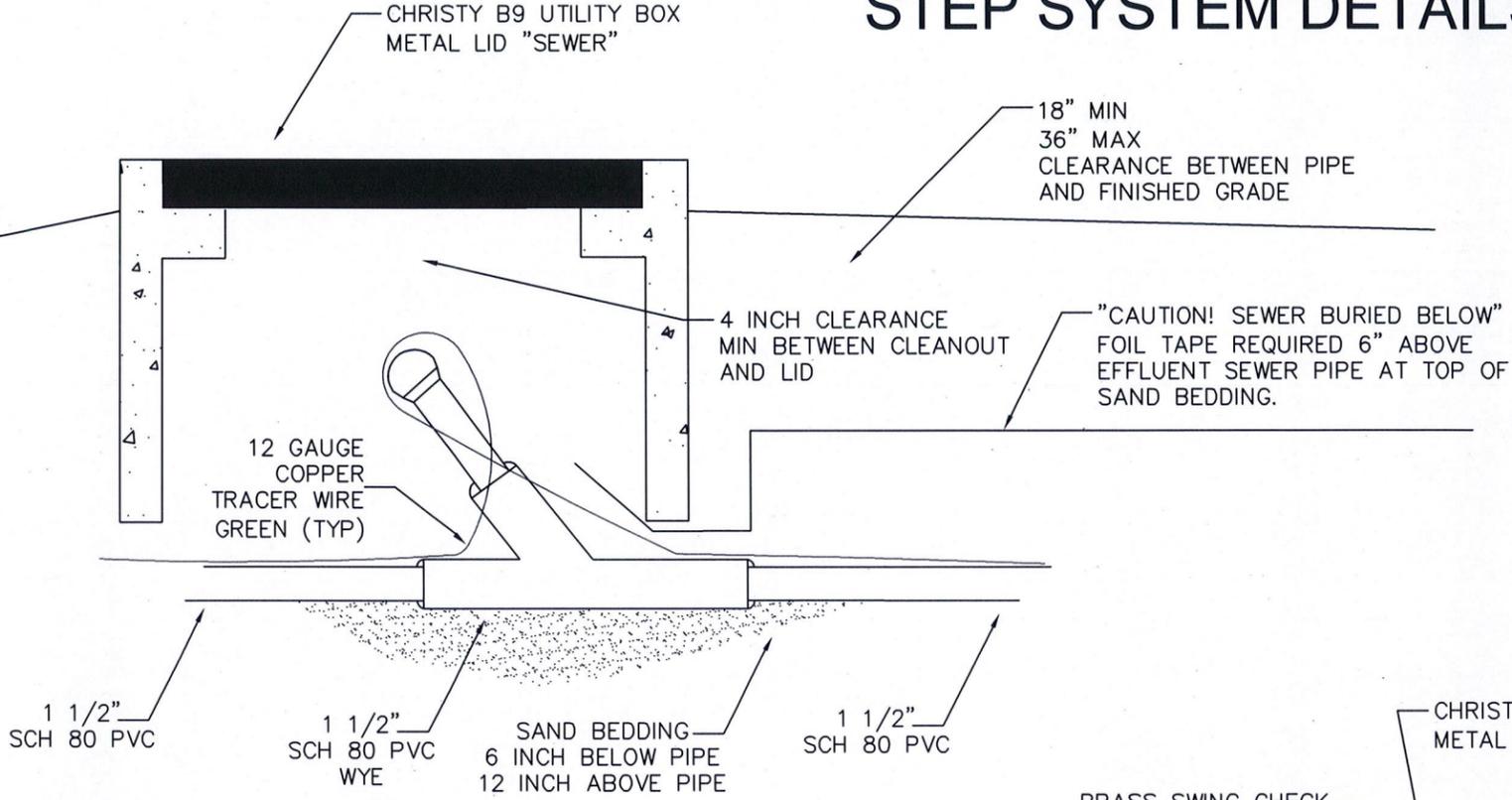
# STEP SYSTEM DETAILS



**BOX STAND**

3  
3  
NOT TO SCALE

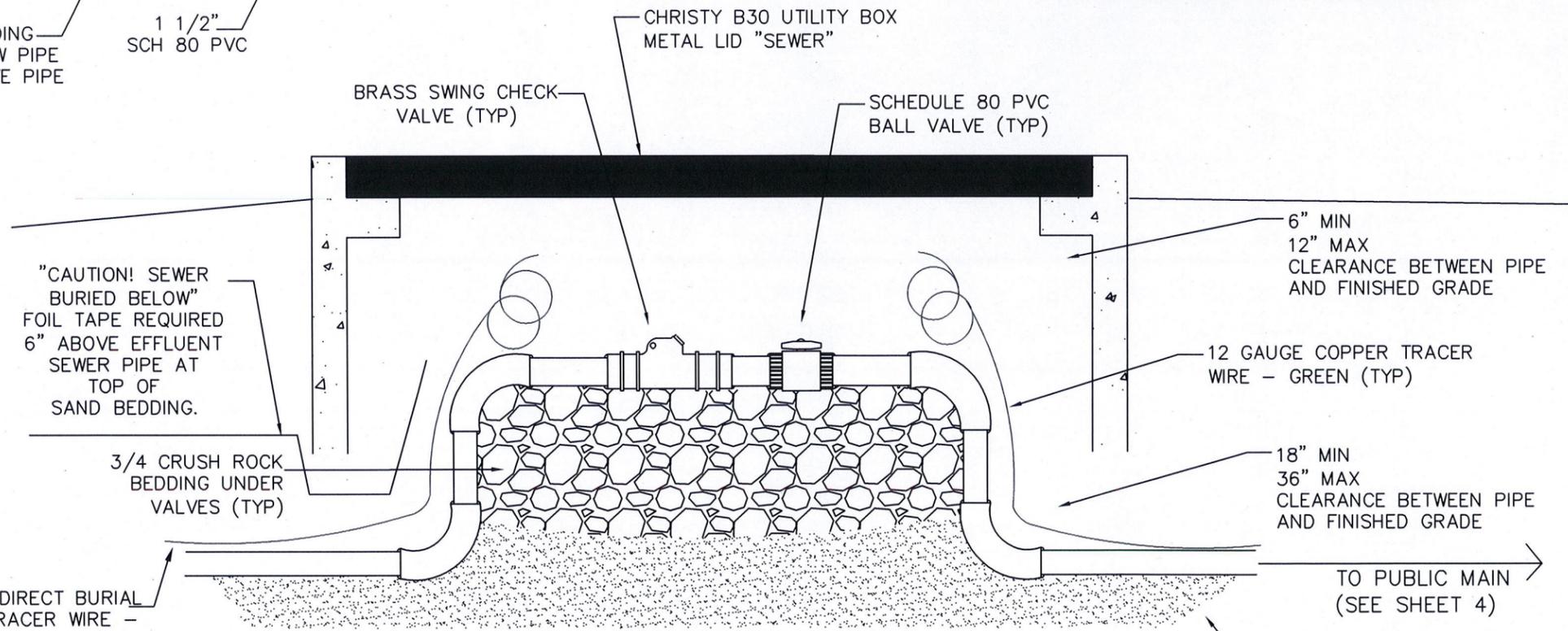
- NOTES:**
1. Stack concrete blocks to bring B9 boxes for sewer and electrical up to finished grade.
  2. Backfill between and around blocks with sand.



**STANDARD CLEANOUT DETAIL**

3  
1  
NOT TO SCALE

- NOTES:**
1. The cleanout is required to be Schedule 80 PVC.
  2. Tracer wire shall be 12 gauge copper wire looped through each cleanout box from the tank to the street connection. The wire shall run on top of the sewer pipe, taped to the pipe.
  3. 6 inches minimum sand bedding above and below the sewer service pipe. In areas of high ground water 3/4 crush rock will be allowed on a case by case basis.
  4. "Caution Sewer Buried Below" (green and silver foil tape) shall be 6 inches above the sewer service pipe and daylight in each cleanout box.



**STREET CONNECTION CLEANOUT**

3  
2  
NOT TO SCALE

- NOTES:**
1. Street connections are typically built during improvement phase. Older subdivisions may not have the connection and a corp stop and street connection will need to be built by the property owner at the owners expense.
  2. Caution tape on new street connection tie-ins shall include caution tape and tracer wire from the public main to the cleanout box.

No.	Revision	Description	Date	Approved

PLACER COUNTY, CALIFORNIA DEPARTMENT OF FACILITY SERVICES

STEP SYSTEM DETAILS

REVISED 8/2/2018

DATE: 9/10/2014  
DESIGN: KA  
DRAW: KA  
CHECK: KA

DATE: 10/31/13

CONSTRUCTION CONTRACT NO. N/A  
CONTRACT # N/A  
PROJECT NO. N/A  
SCALE: N/A  
HORIZ: N/A  
VERT: N/A  
SCALE REFERENCE: 0 = 1"

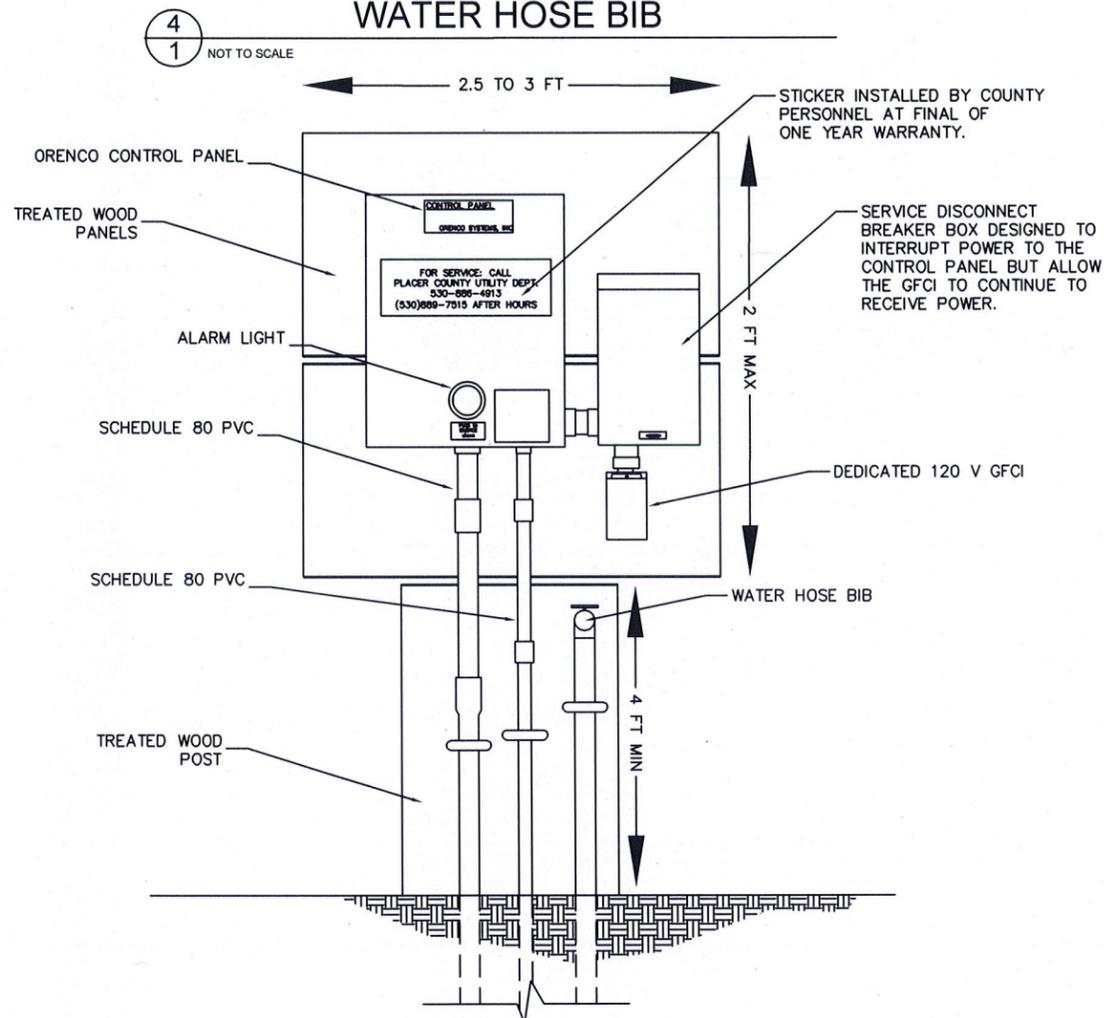
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SHEET NO. 3

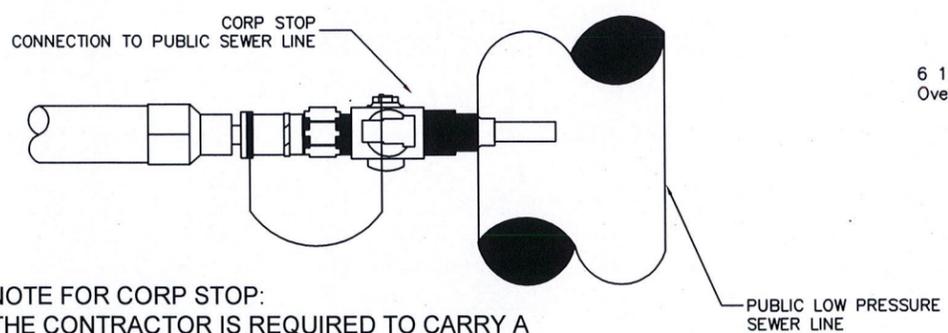
PLACER COUNTY OFFICER & INVENTOR OF CA  
THE COUNTY OF PLACER, ITS OFFICERS, OR ITS AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS DOCUMENT.

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### CONTROL PANEL, DEDICATED GFI WATER HOSE BIB

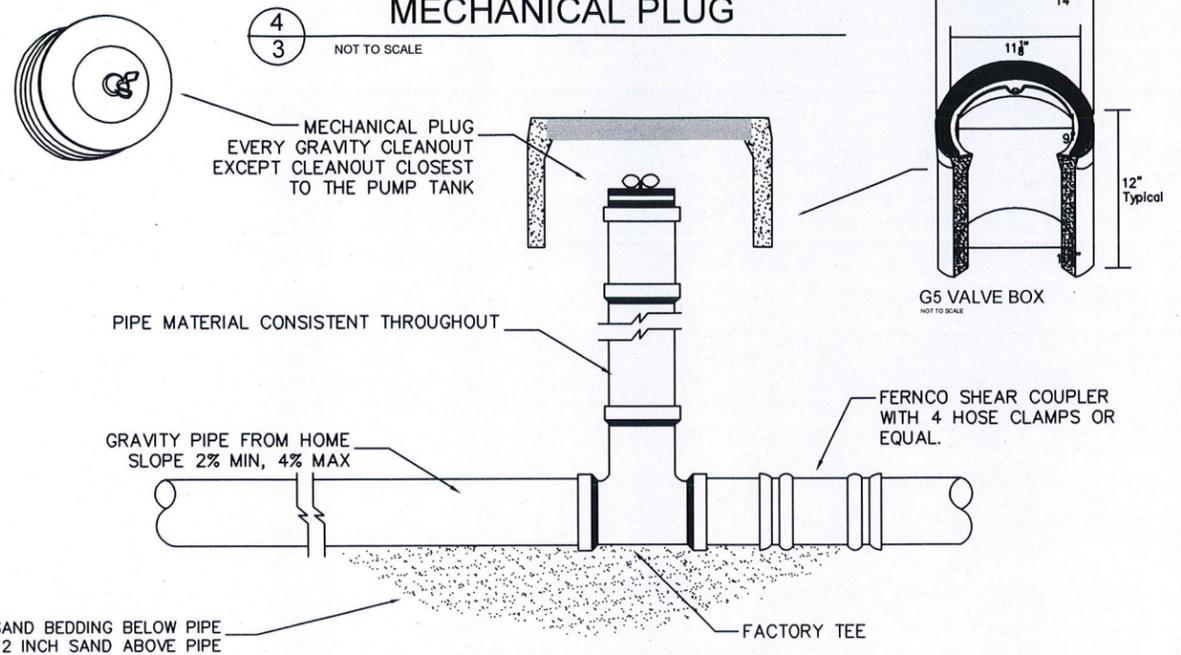


4  
2 NOT TO SCALE



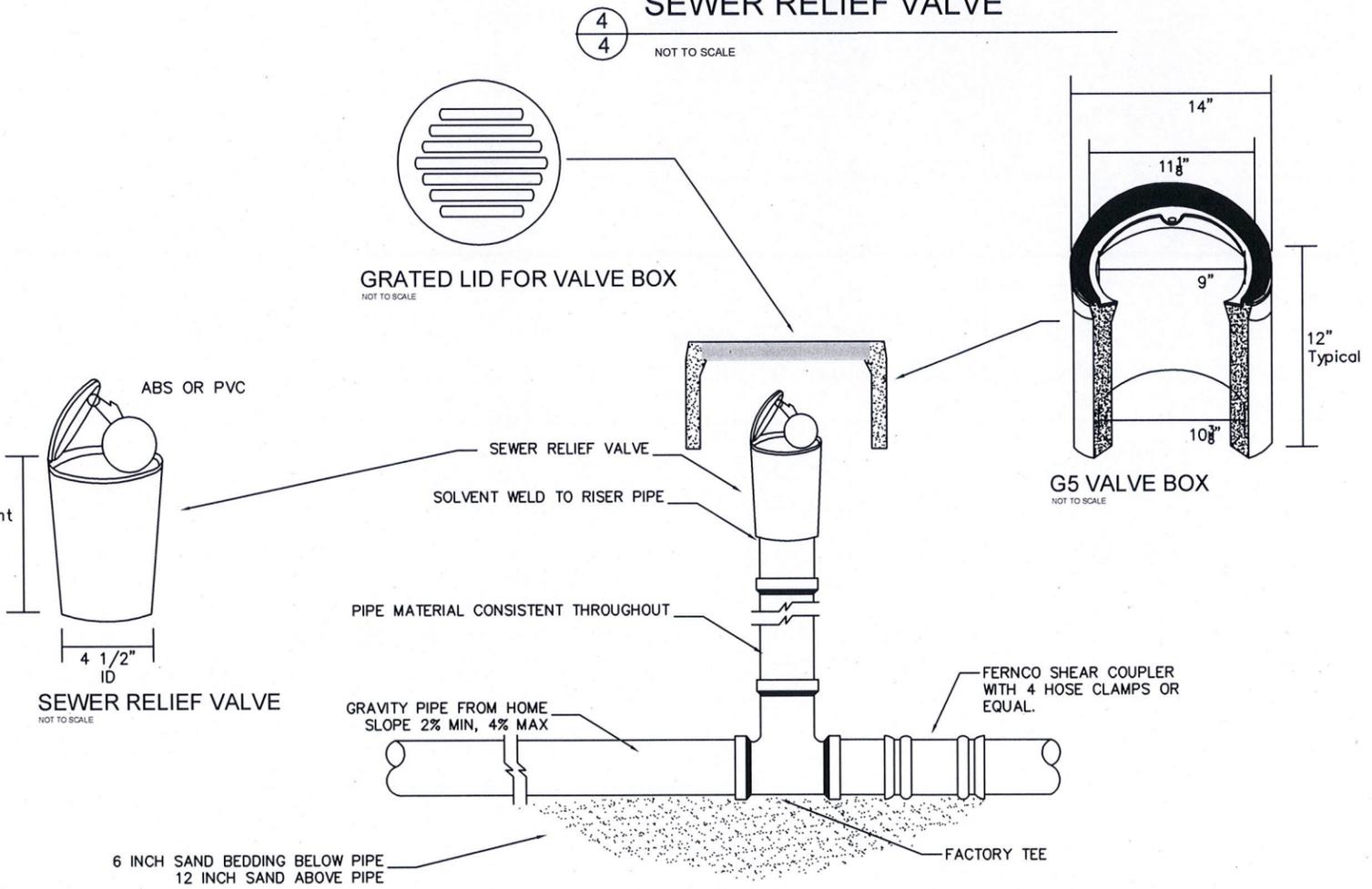
**NOTE FOR CORP STOP:**  
THE CONTRACTOR IS REQUIRED TO CARRY A CLASS C PLUMBING LICENSE AND SHALL HAVE A PUMPER TRUCK AND A COUNTY INSPECTOR ONSITE PRIOR TO CONNECTION. THE CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS LISTED ON THE TAP PERMIT.

### GRAVITY CLEANOUT WITH MECHANICAL PLUG



4  
3 NOT TO SCALE

### SEWER RELIEF VALVE



4  
4 NOT TO SCALE

No.	Revision	Description	Date	Approved

PLACER COUNTY CALIFORNIA DEPARTMENT OF FACILITY SERVICES

STEP SYSTEM DETAILS

REVISED 10/1/2017

DATE: 9/10/2014  
DESIGN: KA  
DRAW: KA  
CHECK: KA

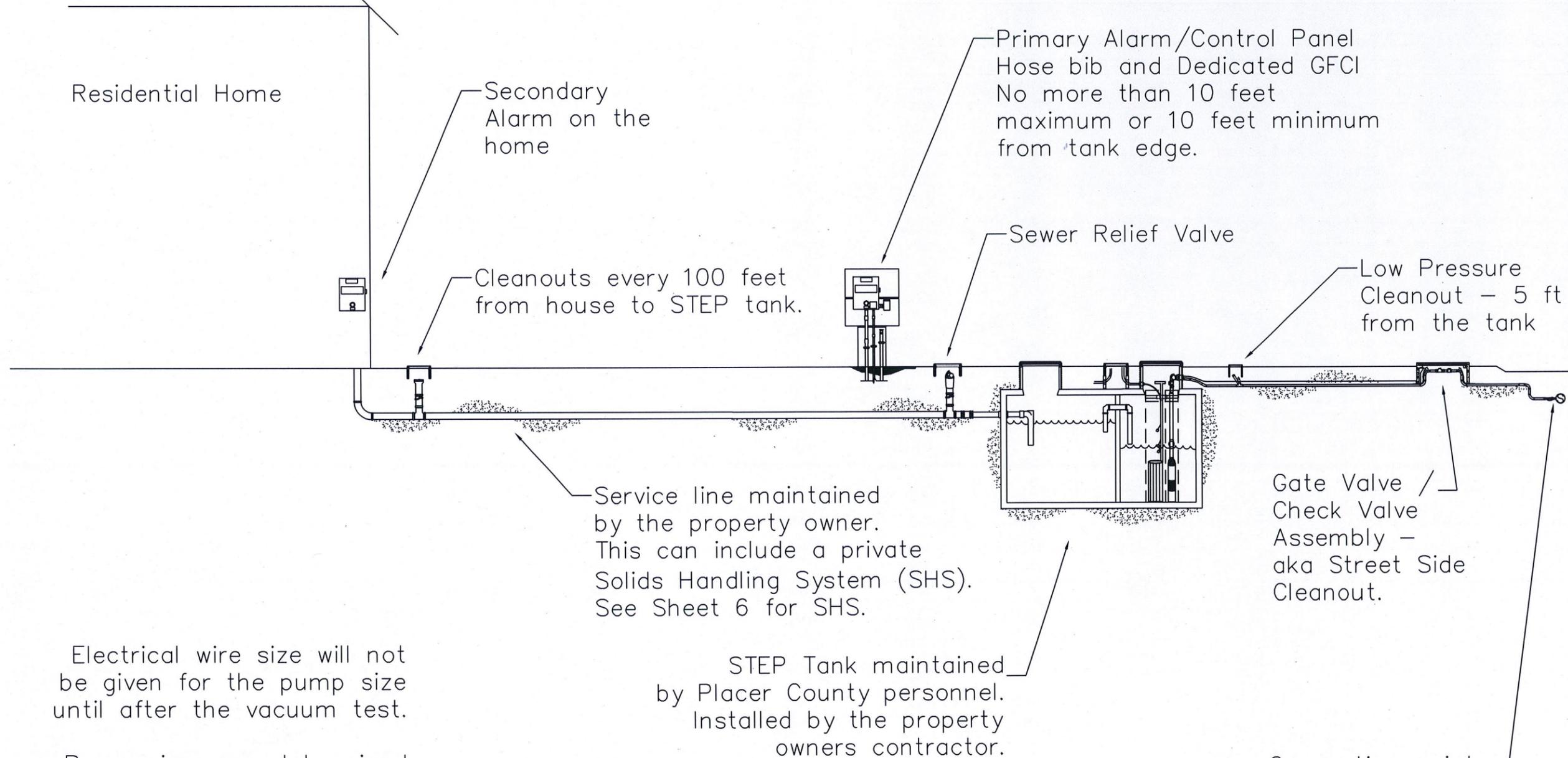
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CONSTRUCTION CONTRACT NO  
CONTRACT #  
PROJECT NO  
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SCALE  
HORIZ: N/A  
VERT: N/A  
SCALE REFERENCE  
0 1" = 1'  
DRAWING

SHEET NO. 4

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# BASIC SCHEMATIC SHOWING UNDERGROUND VIEW

NOT FOR PLOT PLAN  
NOT TO SCALE



Electrical wire size will not be given for the pump size until after the vacuum test.

Pump sizes are determined a minimum of 2 to 5 business days after the vacuum test has been approved.

STEP Tank maintained by Placer County personnel. Installed by the property owners contractor.

Connection point to public low pressure sewer line.

No.	Revision	Description	Date	Approved

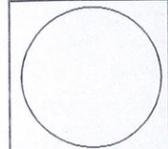


SEPTIC TANK EFFLUENT PUMP SYSTEM (STEPS)  
DETAILS

REVISED 8/1/2018

PLACER COUNTY CALIFORNIA DEPARTMENT OF FACILITY SERVICES

DATE: 9/10/2014  
DESIGN: KA  
DRAW: KA  
CHECK:



DATE: 10/31/13  
CONSTRUCTION CONTRACT NO  
CONTRACT #  
PROJECT NO

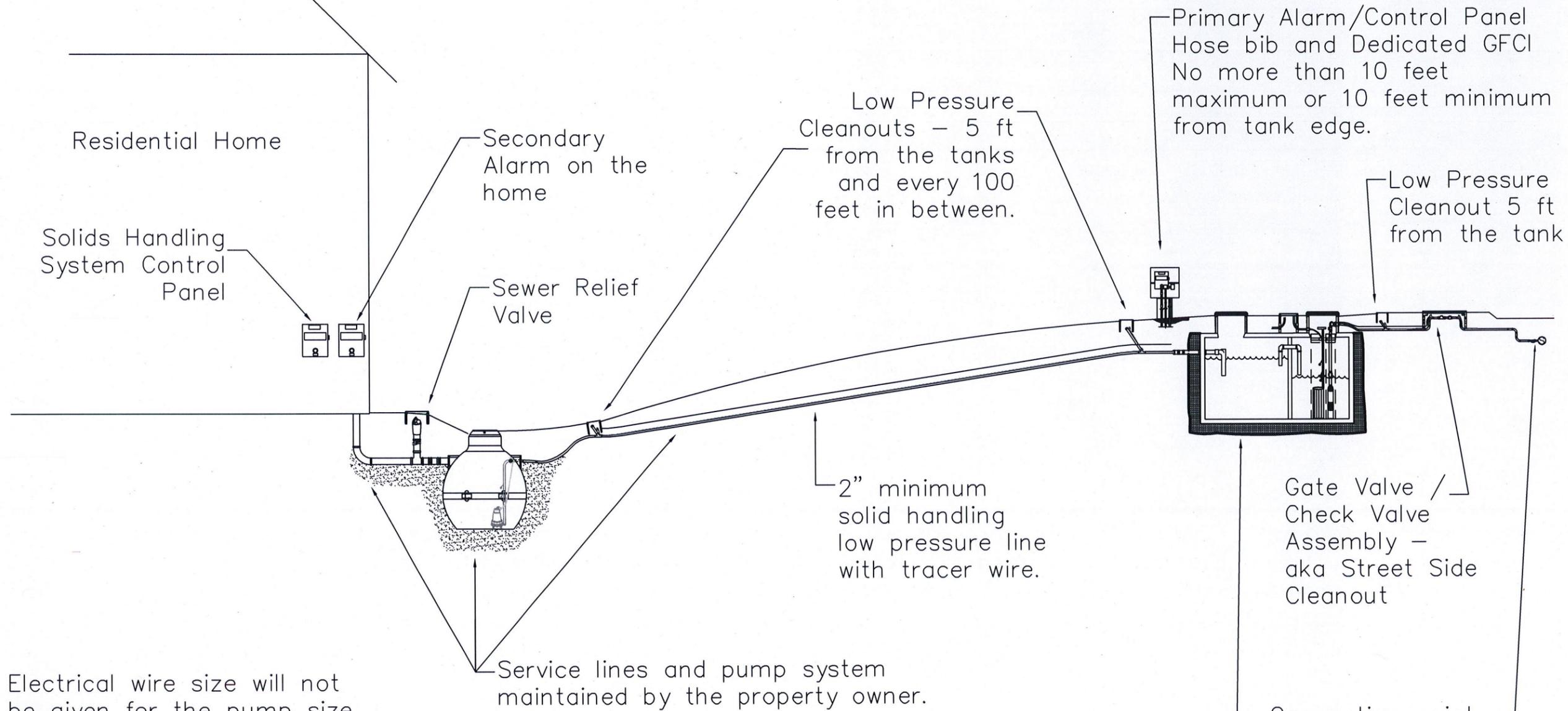
N/A  
SCALE  
HORIZ: N/A  
VERT: N/A  
SCALE REFERENCE  
0 1"

DRAWING

SHEET NO  
5

# BASIC SCHEMATIC SHOWING UNDERGROUND VIEW

NOT FOR PLOT PLAN  
NOT TO SCALE



Electrical wire size will not be given for the pump size until after the vacuum test.

Pump sizes for the STEP system are determined a minimum of 2 to 5 business days after the vacuum test has been approved.

Service lines and pump system maintained by the property owner.

Low Pressure Cleanouts - 5 ft from the tanks and every 100 feet in between.

2" minimum solid handling low pressure line with tracer wire.

STEP Tank and effluent line maintained by Placer County personnel. Installed by the property owners contractor.

Primary Alarm/Control Panel  
Hose bib and Dedicated GFCI  
No more than 10 feet maximum or 10 feet minimum from tank edge.

Low Pressure Cleanout 5 ft from the tank

Gate Valve / Check Valve Assembly - aka Street Side Cleanout

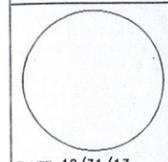
Connection point to public low pressure sewer line. Corp Stop.

No.	Revision	Description	Date	Approved



PLACER COUNTY CALIFORNIA  
DEPARTMENT OF FACILITY SERVICES  
STEP SYSTEM SCHEMATIC  
DETAILS  
REVISED 8/1/2018

DATE: 9/10/2014  
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DATE: 10/31/13  
CONSTRUCTION CONTRACT NO.  
CONTRACT #  
PROJECT NO.  
N/A  
SCALE  
HORIZ: N/A  
VERT: N/A  
SCALE REFERENCE  
0 1"

DRAWING  
SHEET NO.  
6