

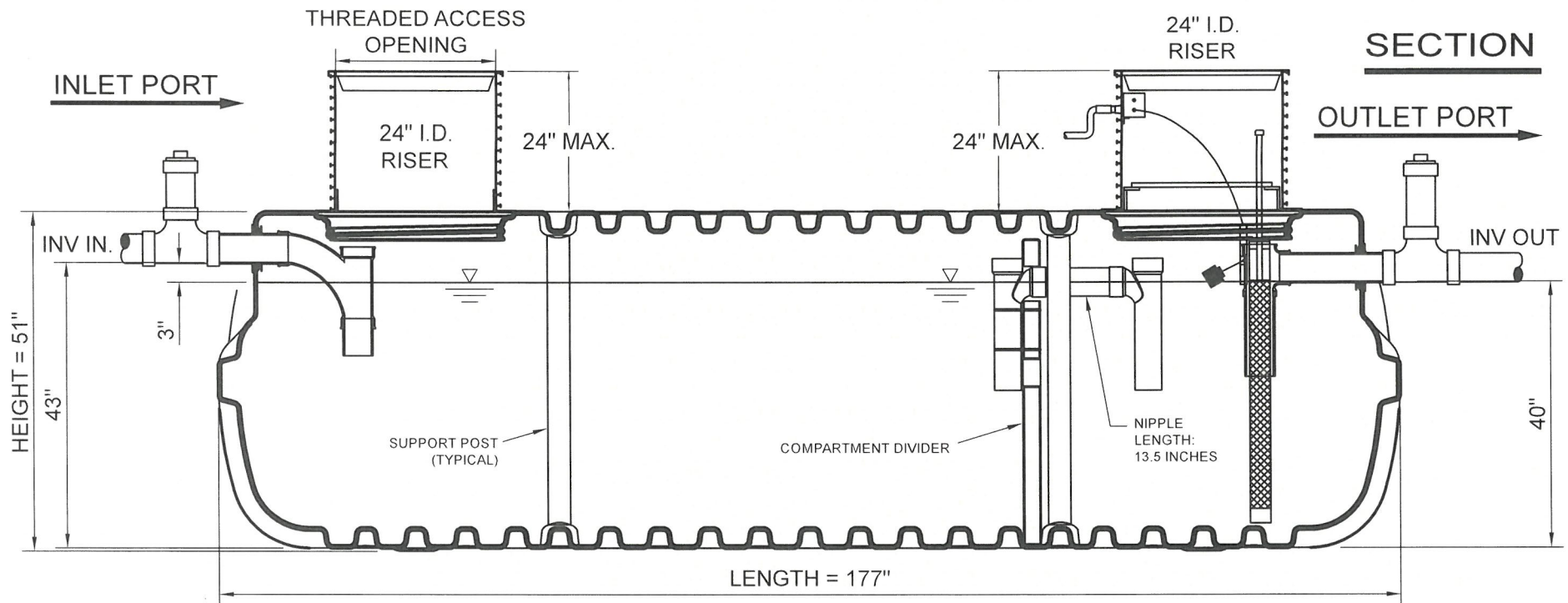


STEF & STEP Tank Details

City of Camas STEF & STEP Tank Sanitary Details ~ INDEX

STEF & STEP Tank Details

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40" LIQUID LEVEL

TANK SPECIFICATIONS

DESIGN CAPACITY		TOTAL CAPACITY		WEIGHT
GALLONS	LITERS	GALLONS	LITERS	POUNDS
1500	5678	1771	6692	640

NOTES:

1. TANKS SHALL ONLY BE INSTALLED BY LICENSED CONTRACTORS THAT ARE MANUFACTURER CERTIFIED FOR INSTALLATION.
2. SHOWN WITH TYPE P COMPARTMENT DIVIDER WITH TEES CLOSE COUPLED, INSTALLED WITH STANDARD INFLOW AND OUTFLOW CONNECTIONS.
3. 2-WAY CLEAN OUT ON INLET AND OUTLET OF TANK; SOLVENT WELD CONNECTIONS REQUIRED; FERNCO COUPLINGS NOT ALLOWED.
4. FOR TANK LOCATED IN DRIVEWAY - SEE CITY OF CAMAS STEP & STEF TANK INSTALLATION INSTRUCTIONS.
5. SUPPORT POSTS REQUIRED FOR ALL 1500 GALLON TANKS
6. PIPE FROM TANK TO SERVICE STUB SHALL BE 4" ASTM D2241 PVC. CONNECT TO 4" SERVICE STUB WITH SOLVENT WELD COUPLER.

STEF (SEPTIC TANK EFFLUENT FILTER SYSTEM)

SECTION VIEW TYPICAL 1500 GALLON TANK W/DUAL COMPARTMENT
DRAWDOWN BIOTUBE EFFLUENT FILTER



SANITARY SEWER DETAIL

STEF & STEP 1500 GAL HDPE TANK - STEF SYSTEM

DETAIL APPROVED BY *[Signature]*

6/27/2023
DATE

NOT TO SCALE

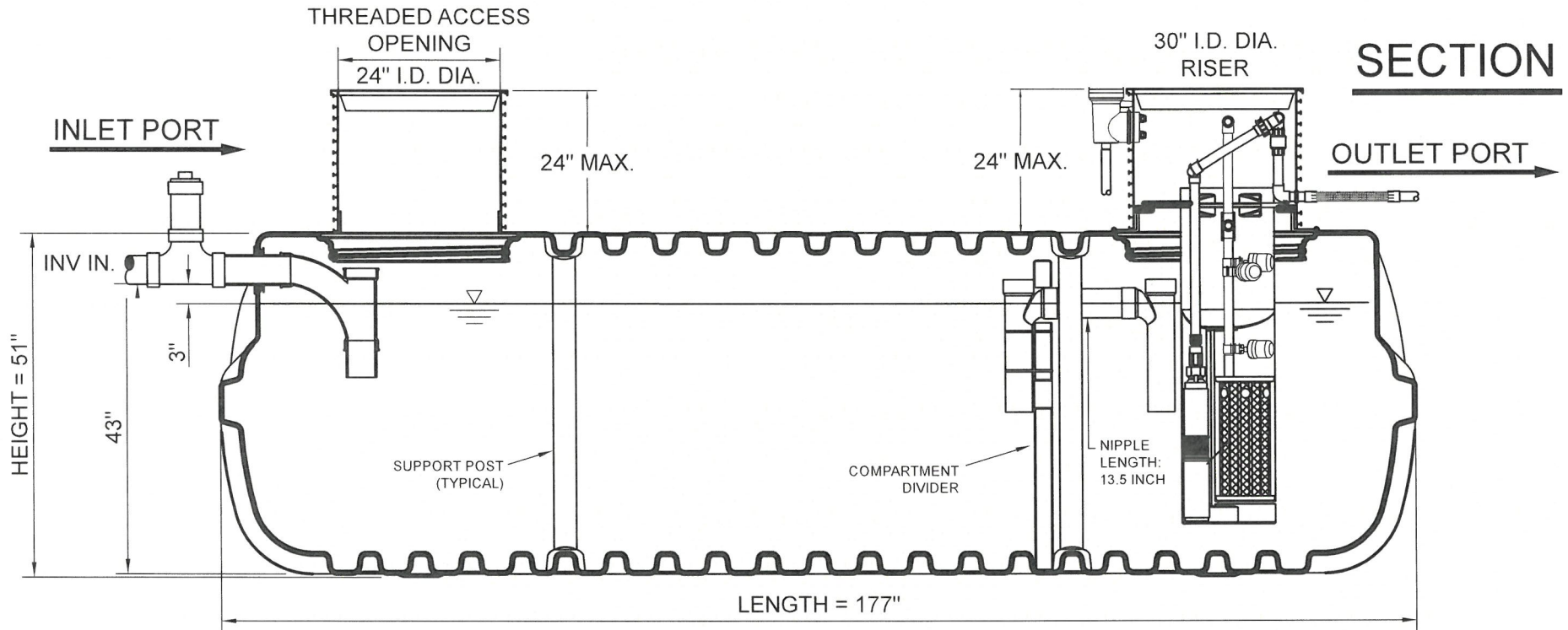
DETAIL NO.

S6A

REVISION: 3

DATE: 6/2023

STEF - STEP - TANK - 1500 GAL.DWG



40" LIQUID LEVEL

TANK SPECIFICATIONS

DESIGN CAPACITY		TOTAL CAPACITY		WEIGHT
GALLONS	LITERS	GALLONS	LITERS	POUNDS
1500	5678	1771	6692	640

NOTES:

1. TANKS SHALL ONLY BE INSTALLED BY LICENSED CONTRACTORS THAT ARE MANUFACTURER CERTIFIED FOR INSTALLATION.
2. SHOWN WITH TYPE P COMPARTMENT DIVIDER WITH TEES CLOSE COUPLED, INSTALLED WITH ORENCO PUMP BIOTUBE IN THE OUTLET COMPARTMENT.
3. 2-WAY CLEAN OUT ON TANK INLET; SOLVENT WELD CONNECTIONS REQUIRED; FERNCO COUPLINGS NOT ALLOWED.
4. FOR TANK LOCATED IN DRIVEWAY - SEE CITY OF CAMAS STEP & STEP TANK INSTALLATION INSTRUCTIONS.
5. SUPPORT POSTS REQUIRED FOR ALL 1500 GALLON TANKS.
6. INSTALL 1" HDPE PIPE TO STEP VALVE BOX AND FUSE TO 1" HDPE SERVICE. CONNECT TO 1" PVC INSIDE TANK RISER WITH STAINLESS MNPT X HDPE COUPLER.

STEP (SEPTIC TANK EFFLUENT PUMP SYSTEM)

SECTION VIEW TYPICAL 1500 GALLON TANK W/ PUMP BIOTUBE
EFFLUENT FILTER



SANITARY SEWER DETAIL

STEP & STEP 1500 GAL HDPE TANK - STEP SYSTEM

DETAIL APPROVED BY

DATE

6/27/2023

NOT TO SCALE

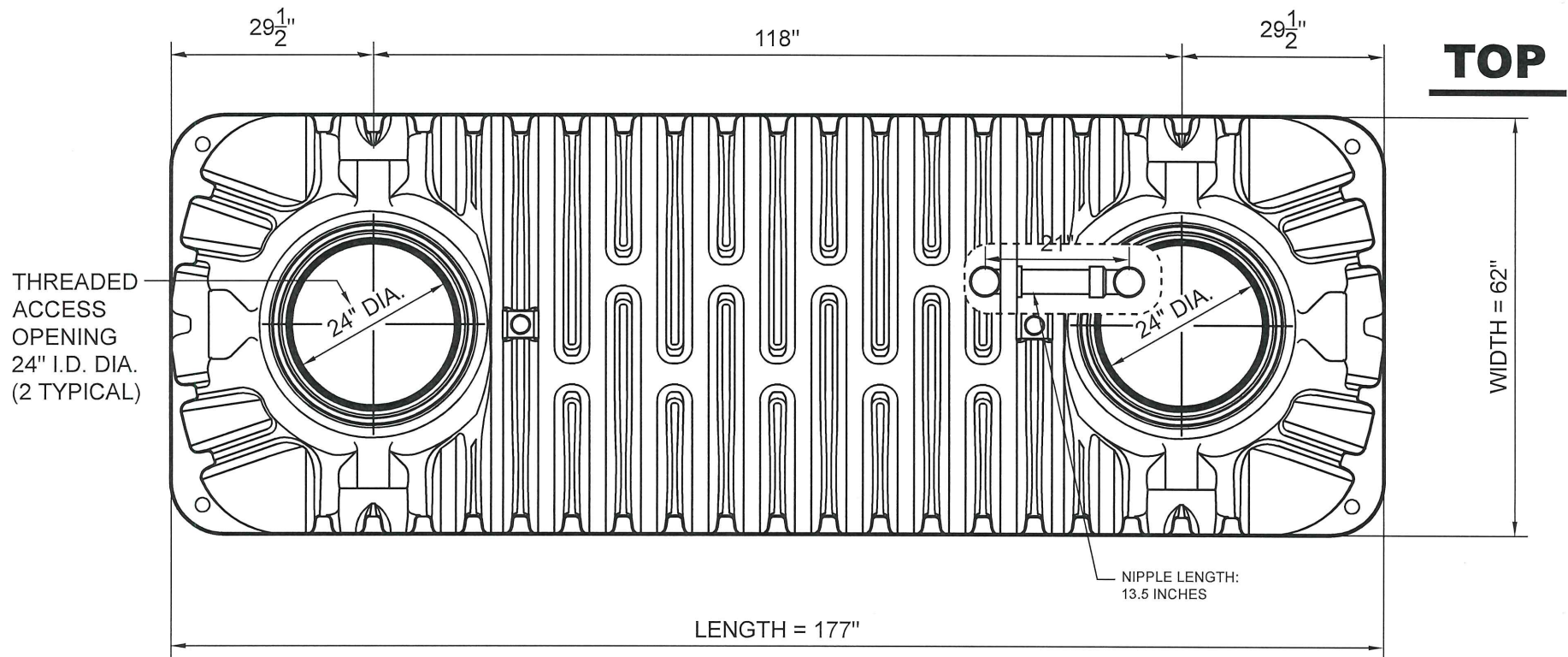
DETAIL NO.

S6B

REVISION: 3

DATE: 6/2023

STEP-STEP-TANK-1500 GAL.DWG

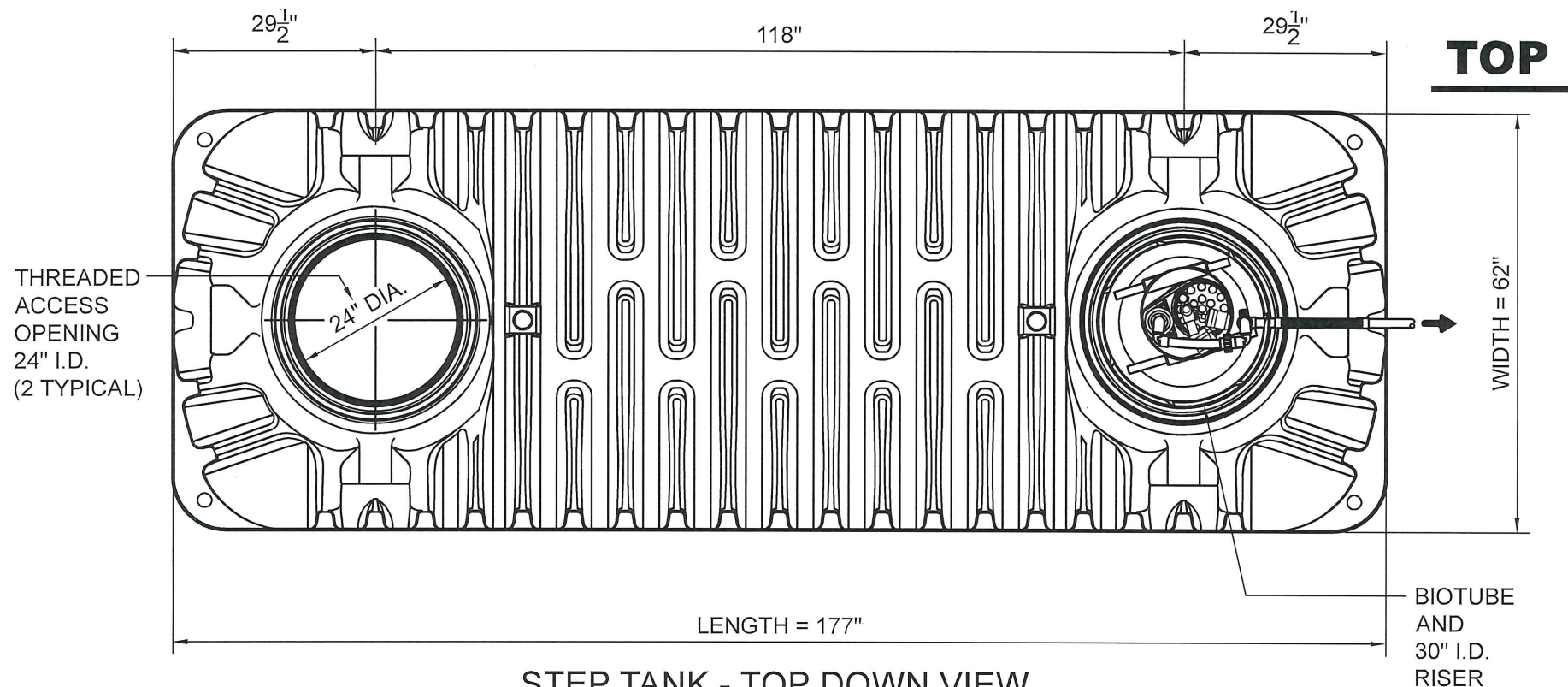


STEF TANK - TOP DOWN VIEW

CUT-AWAY VIEW OF CLOSE COUPLED TEES

TANK NOTES:

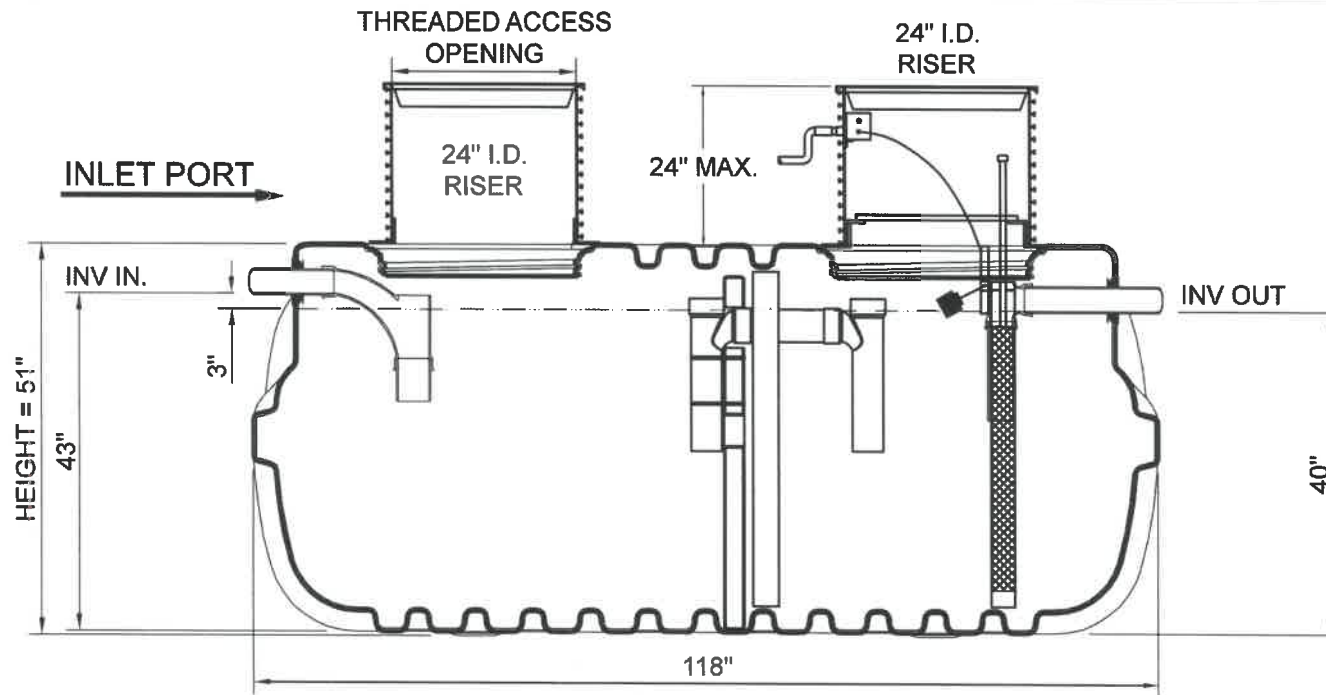
1. ACCESS AT OR ABOVE GRADE LEVEL SHALL BE SECURED AGAINST UNAUTHORIZED ACCESS.
2. TANK IS NOT RATED FOR VEHICULAR TRAFFIC LOADING WITHOUT FOLLOWING DRIVEWAY INSTALLATION REQUIREMENTS.
3. ALL RESIN USED SHALL BE COMPLIANT WITH ASTM D 1248 AS REQUIRED BY CSA B66 AND IAPMO / ANSI Z1000-2007.
4. TANK MATERIAL OF CONSTRUCTION SHALL BE HMW-HDPE.
5. PRIMARY DIMENSIONS ARE IN INCHES.
6. MINIMUM TANK WALL THICKNESS SHALL BE 1/4".
7. LABELING WILL INCLUDE: MAUFACTURER NAME, LIQUID CAPACITY, DATE, MAXIMUM BURIAL DEPTH, AND MODEL NUMBER.
8. RISER COVER SHALL CONTAIN THE FOLLOWING: 6" X 3" WARNING:
"DANGER - DO NOT ENTER - POISON GAS" - WRITTEN IN ENGLISH, FRENCH & SPANISH
9. MAXIMUM BURIAL DEPTH IS 24" UNLESS SPECIFICALLY INSTRUCTED OTHERWISE BY THE MANUFACTURER OR THE CITY.
10. TANK SHALL BE CERTIFIED TO CSA AND IAPMO STANDARDS.



STEP TANK - TOP DOWN VIEW
CUT-AWAY VIEW OF PUMP BIOTUBE EFFLUENT FILTER

TANK NOTES:

1. ACCESS AT OR ABOVE GRADE LEVEL SHALL BE SECURED AGAINST UNAUTHORIZED ACCESS.
2. TANK IS NOT RATED FOR VEHICULAR TRAFFIC LOADING WITHOUT FOLLOWING DRIVEWAY INSTALLATION REQUIREMENTS.
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10. TANK SHALL BE CERTIFIED TO CSA AND IAPMO STANDARDS.



TANK SPECIFICATIONS

DESIGN CAPACITY		TOTAL CAPACITY		WEIGHT
GALLONS	LITERS	GALLONS	LITERS	POUNDS
1000	3780	1147	4340	450

NOTES:

1. TANKS SHALL ONLY BE INSTALLED BY LICENSED CONTRACTORS THAT ARE MANUFACTURER CERTIFIED FOR INSTALLATION.
2. SHOWN WITH TYPE P COMPARTMENT DIVIDER WITH TEES CLOSE COUPLED, INSTALLED WITH STANDARD INFLOW AND OUTFLOW CONNECTIONS.
3. 2-WAY CLEAN OUT ON INLET AND OUTLET OF TANK; SOLVENT WELD CONNECTIONS REQUIRED; FERNCO COUPLINGS NOT ALLOWED.
4. FOR TANK LOCATED IN DRIVEWAY - SEE CITY OF CAMAS STEP & STEP TANK INSTALLATION INSTRUCTIONS.
5. PIPE FROM TANK TO SERVICE STUB SHALL BE 4" 3034 PVC. CONNECT TO 6" SERVICE STUB WITH SOLVENT WELD REDUCER COUPLING.
6. ONLY TO BE USED WITH ADU'S OR AS OTHERWISE APPROVED BY CITY OF CAMAS PUBLIC WORKS

STEP (SEPTIC TANK EFFLUENT FILTER SYSTEM)

SECTION VIEW TYPICAL 1000 GALLON TANK W/ DUAL COMPARTMENT
DRAWDOWN BIOTUBE EFFLUENT FILTER



SANITARY SEWER DETAIL

STEP & STEP 1000 GAL HDPE TANK - ADU STEP SYSTEM

DETAIL APPROVED BY

DATE

NOT TO SCALE

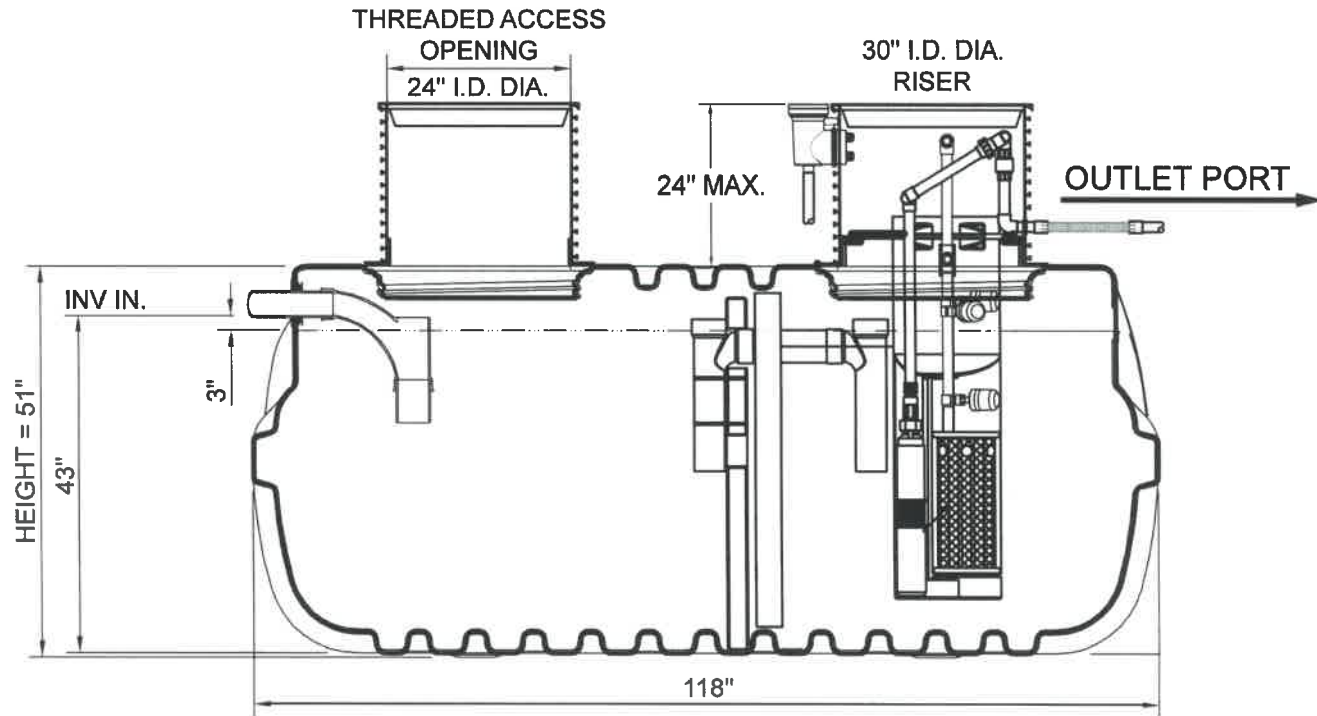
DETAIL NO.

S6E

REVISION: 1

DATE: 10/17/2024

STEP-STEP-TANK.DWG



40" LIQUID LEVEL

TANK SPECIFICATIONS

DESIGN CAPACITY		TOTAL CAPACITY		WEIGHT
GALLONS	LITERS	GALLONS	LITERS	POUNDS
1000	3780	1147	4340	450

NOTES:

1. TANKS SHALL ONLY BE INSTALLED BY LICENSED CONTRACTORS THAT ARE MANUFACTURER CERTIFIED FOR INSTALLATION.
2. SHOWN WITH TYPE P COMPARTMENT DIVIDER WITH TEES CLOSE COUPLED, INSTALLED WITH ORENCO PUMP BIOTUBE IN THE OUTLET COMPARTMENT.
3. 2-WAY CLEAN OUT ON TANK INLET; SOLVENT WELD CONNECTIONS REQUIRED; FERNCO COUPLINGS NOT ALLOWED.
4. FOR TANK LOCATED IN DRIVEWAY - SEE CITY OF CAMAS STEP & STEF TANK INSTALLATION INSTRUCTIONS.
5. INSTALL 1" HDPE PIPE TO STEP VALVE BOX AND FUSE TO 1" HDPE SERVICE. CONNECT TO 1" PVC INSIDE TANK RISER WITH STAINLESS MNPT X HDPE COUPLER.
6. ONLY TO BE USED WITH ADU'S OR AS OTHERWISE APPROVED BY CITY OF CAMAS PUBLIC WORKS

STEP (SEPTIC TANK EFFLUENT PUMP SYSTEM)

SECTION VIEW TYPICAL 1000 GALLON TANK W/ PUMP BIOTUBE
EFFLUENT FILTER



SANITARY SEWER DETAIL

STEF & STEP 1000 GAL HDPE TANK - ADU STEP SYSTEM

DETAIL APPROVED BY

DATE

10/17/24

NOT TO SCALE

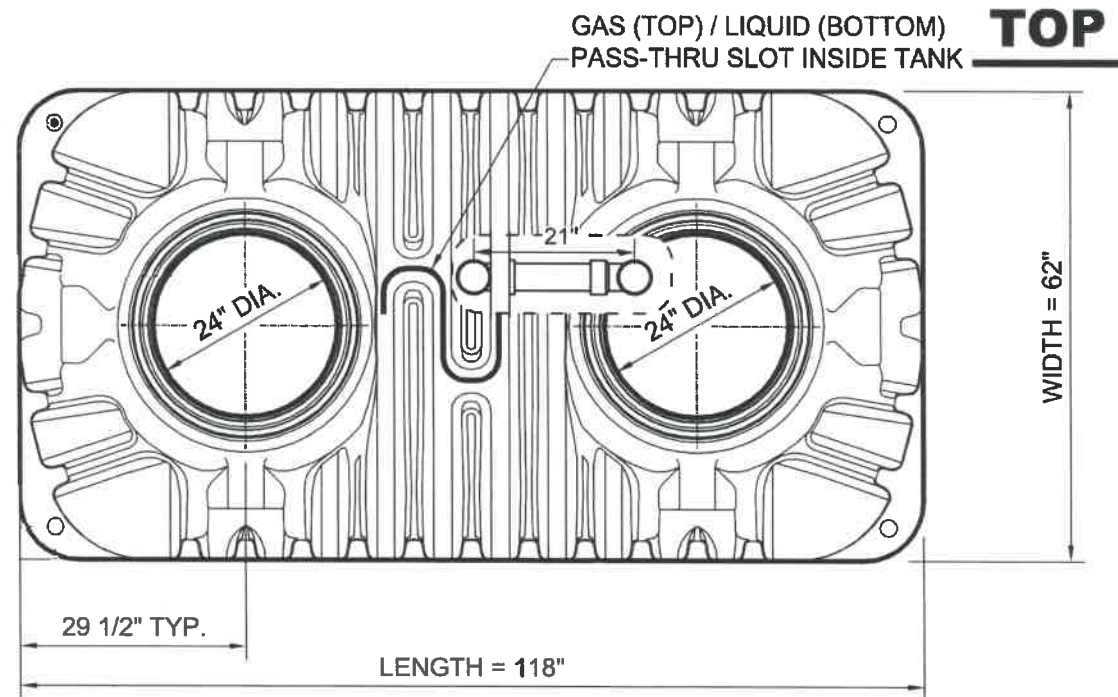
DETAIL NO.

S6F

REVISION: 1

DATE: 10/17/2024

STEF-STEP-TANK.DWG



STEF TANK - TOP DOWN VIEW
CUT-AWAY VIEW OF CLOSE COUPLED TEES

TANK NOTES:

1. ACCESS AT OR ABOVE GRADE LEVEL SHALL BE SECURED AGAINST UNAUTHORIZED ACCESS.
2. TANK IS NOT RATED FOR VEHICULAR TRAFFIC LOADING WITHOUT FOLLOWING DRIVEWAY INSTALLATION REQUIREMENTS.
3. ALL RESIN USED SHALL BE COMPLIANT WITH ASTM D 1248 AS REQUIRED BY CSA B66 AND IAPMO / ANSI Z1000-2007.
4. TANK MATERIAL OF CONSTRUCTION SHALL BE HMW-HDPE.
5. PRIMARY DIMENSIONS ARE IN INCHES.
6. MINIMUM TANK WALL THICKNESS SHALL BE 1/4".
7. LABELING WILL INCLUDE: MAUFACTURER NAME, LIQUID CAPACITY, DATE, MAXIMUM BURIAL DEPTH, AND MODEL NUMBER.
8. RISER COVER SHALL CONTAIN THE FOLLOWING: 6" X 3" WARNING:
"DANGER - DO NOT ENTER - POISON GAS" - WRITTEN IN ENGLISH, FRENCH & SPANISH
9. MAXIMUM BURIAL DEPTH IS 24" UNLESS SPECIFICALLY INSTRUCTED OTHERWISE BY THE MANUFACTURER OR THE CITY.
10. TANK SHALL BE CERTIFIED TO CSA AND IAPMO STANDARDS.



SANITARY SEWER DETAIL

STEF & STEP 1000 GAL HDPE TANK - ADU STEF SYSTEM

DETAIL APPROVED BY

DATE

10/17/24

NOT TO SCALE

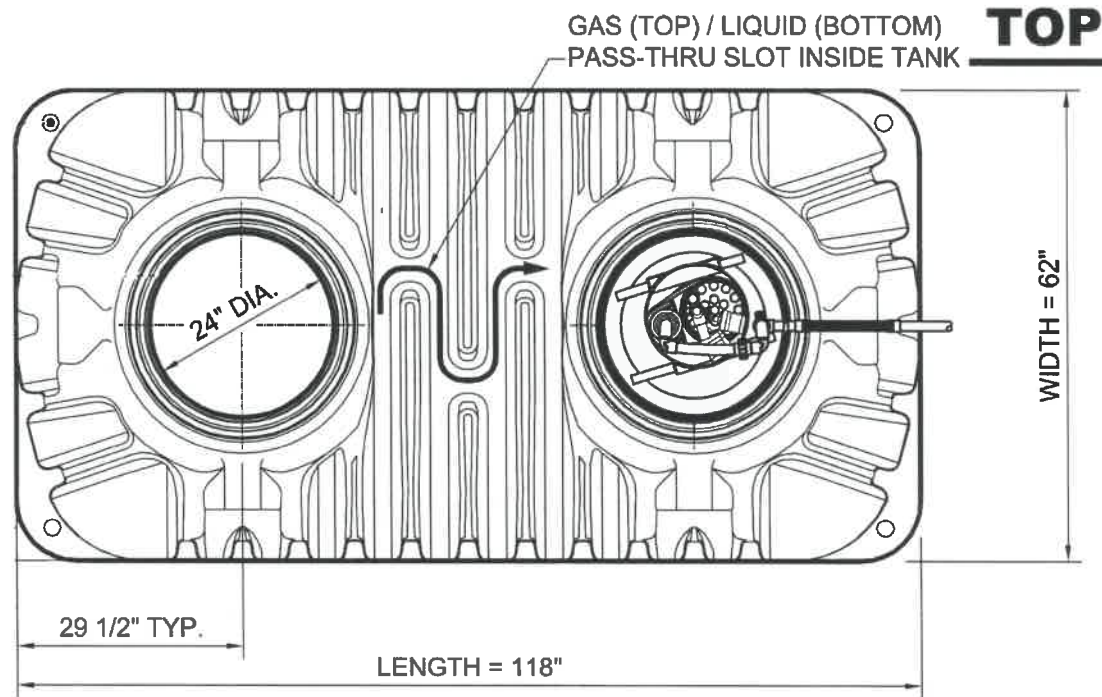
DETAIL NO.

S6G

REVISION: 1

DATE: 10/17/2024

STEF-STEP-TANK.DWG



STEP TANK - TOP DOWN VIEW
CUT-AWAY VIEW OF PUMP BIOTUBE EFFLUENT FILTER

TANK NOTES:

1. ACCESS AT OR ABOVE GRADE LEVEL SHALL BE SECURED AGAINST UNAUTHORIZED ACCESS.
2. TANK IS NOT RATED FOR VEHICULAR TRAFFIC LOADING WITHOUT FOLLOWING DRIVEWAY INSTALLATION REQUIREMENTS.
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SANITARY SEWER DETAIL

STEP & STEP 1000 GAL HDPE TANK - ADU STEP SYSTEM

DETAIL APPROVED BY

DATE

10/17/24

NOT TO SCALE

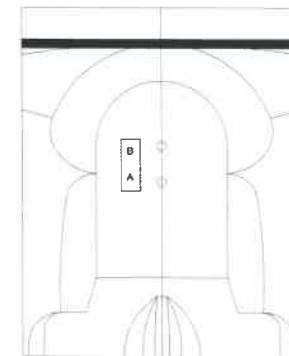
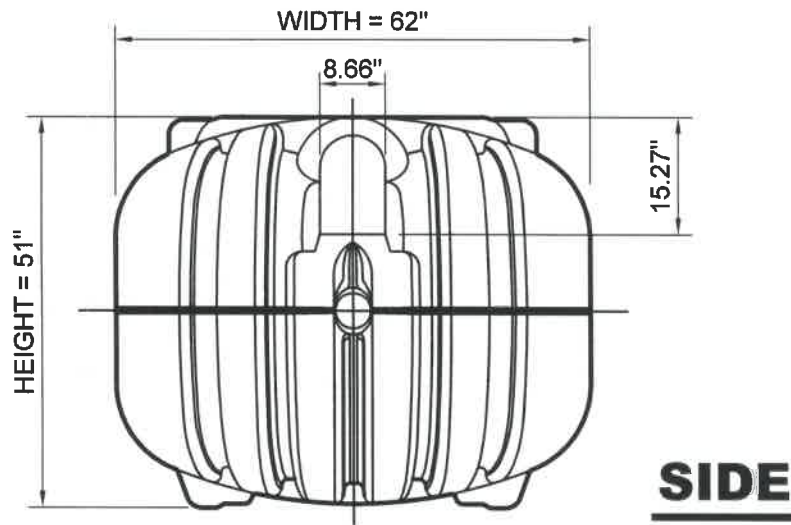
DETAIL NO.

S6H

REVISION: 1

DATE: 10/17/2024

STEP-STEP-TANK.DWG



Drawing Not to Scale

Dimple	Inlet Invert	Outlet Invert	Invert Drop
A	43 "	40"	3"
B	44"	42"	2"

WA STATE APPROVAL - 40" LIQUID LEVEL, "A" DIMPLES ARE USED.

STEP & STEP TANK - ELEVATION VIEW INVERT DIMPLE LOCATIONS



SANITARY SEWER DETAIL

STEP & STEP 1000 & 1500 GAL HDPE TANK — SIDE VIEW

DETAIL APPROVED BY

DATE

NOT TO SCALE

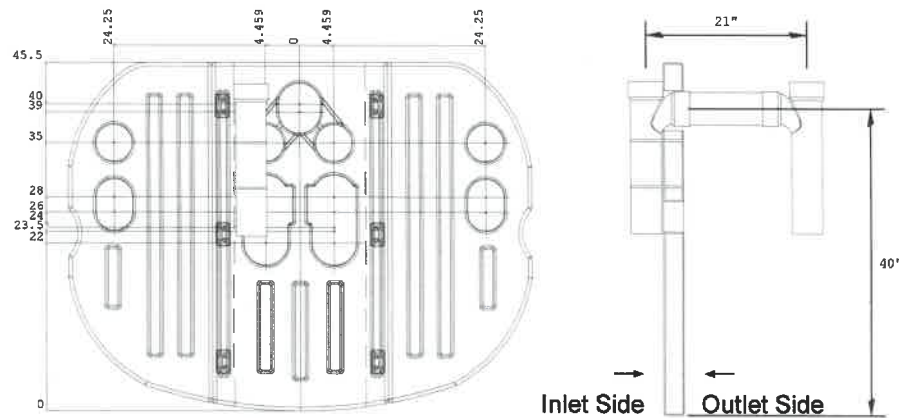
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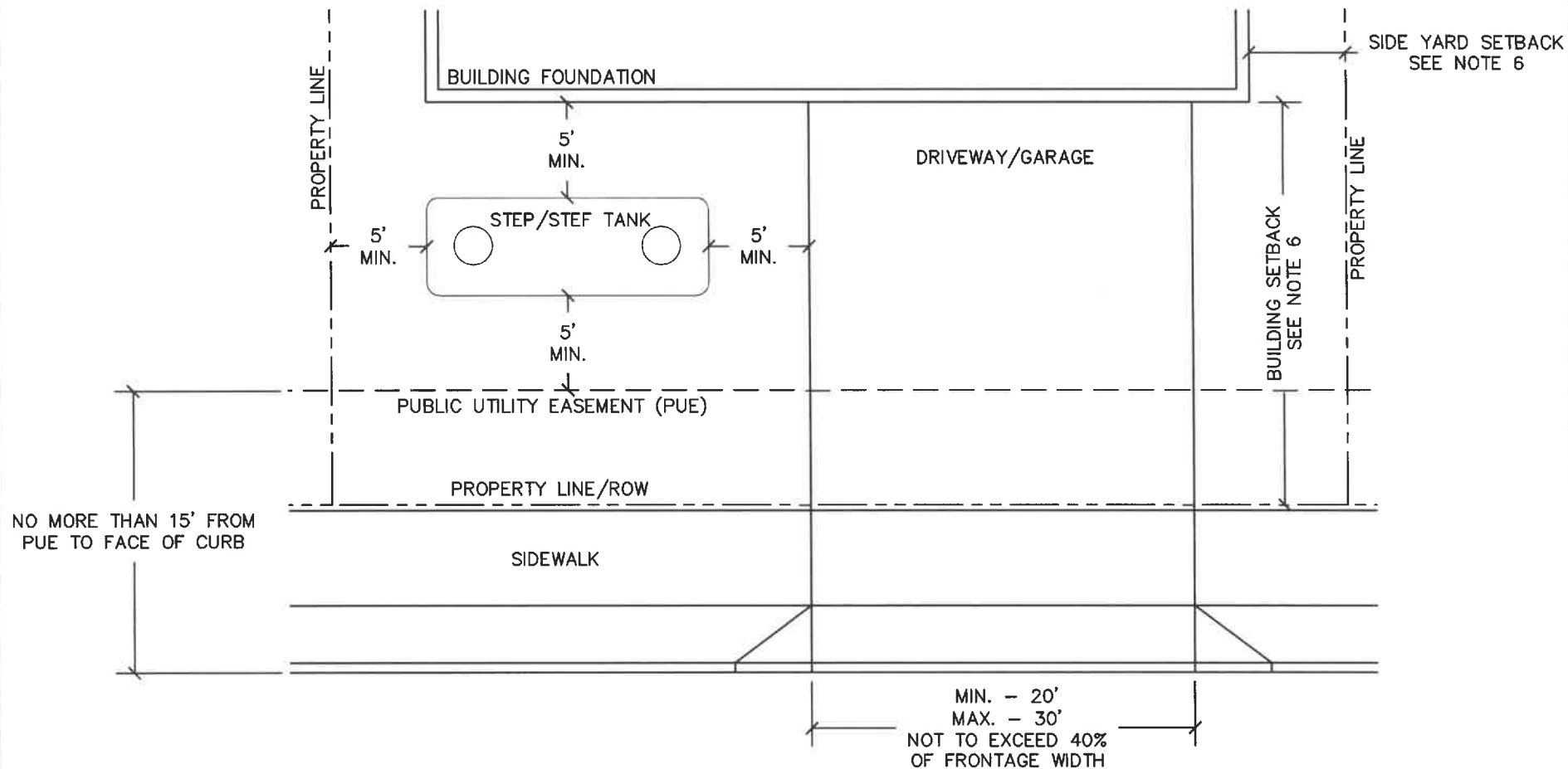
REVISION: 2

DATE: 10/17/2024

STEP-STEP-TANK.DWG



STEF & STEP TANK - COMPARTMENT DIVIDER
VIEW OF CLOSE COUPLED TEES



NOTES:

1. WHERE A 1500-GALLON TANK IS REQUIRED, PER CITY OF CAMAS STANDARD DETAILS S6A-S6D:
- TANK DIMENSIONS: 177" (14'-9") LONG, 62" (5'-2") WIDE, 51" (4'-3") TALL
2. WHERE A 1000-GALLON TANK IS REQUIRED, PER CITY OF CAMAS STANDARD DETAILS S6E-S6H:
- TANK DIMENSIONS: 118" (9'-10") LONG, 62" (5'-2") WIDE, 51" (4'-3") TALL
3. TANK TO BE LOCATED A MAXIMUM OF 35- FEET FROM A PAVED SURFACE
4. TANKS ARE TO BE SET LEVEL FROM END-TO-END, REGARDLESS OF ORIENTATION
5. TANK ORIENTATION CAN ALSO BE SHOWN PERPENDICULAR TO STREET
6. BUILDING SETBACKS ARE SUBJECT TO CAMAS MUNICIPAL CODE 18.09
7. SEPTIC RISERS ARE LIMITED TO 2-FOOT MAX DEPTH AND 18-INCHES MIN. DEPTH
8. LOCATION OF TANKS TO BE SHOWN ON HOUSE PLOT PLANS
9. BUILDING CONTRACTOR TO CALL FOR STEP/STEP INSPECTION OF PROPOSED TANK LOCATION PRIOR TO FOUNDATION POURS. FOUNDATION CORNERS TO BE SURVEYED OR STAKED OUT PRIOR TO INSPECTION
10. COMMUNITY STEP/STEP TANKS WILL BE REQUIRED IF LOT DIMENSIONS CANNOT MEET MINIMUM TANK PLACEMENT REQUIREMENTS AS SHOWN



SANITARY SEWER DETAIL

STEP & STEP TANK PLAN VIEW - PARALLEL TO STREET

DETAIL APPROVED BY

DATE

9/15/2026

NOT TO SCALE

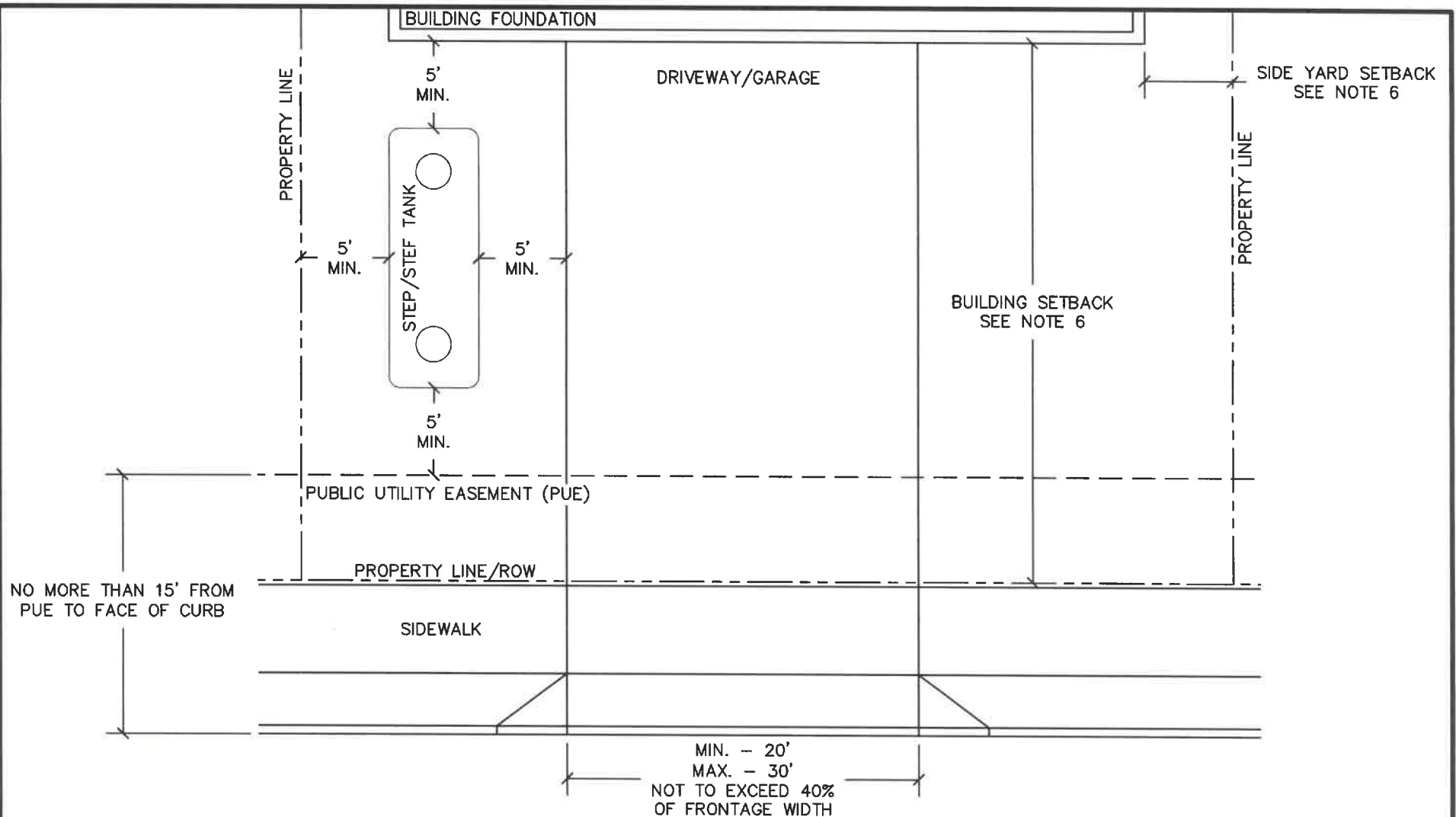
DETAIL NO.

S6K

REVISION: 1

DATE: 9/15/2026

STEP-STEP-TANK-1500 GAL.DWG



NOTES:

- WHERE A 1500-GALLON TANK IS REQUIRED, PER CITY OF CAMAS STANDARD DETAILS S6A-S6D:
- TANK DIMENSIONS: 177" (14'-9") LONG, 62" (5'-2") WIDE, 51" (4'-3") TALL
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- COMMUNITY STEP/STEP TANKS WILL BE REQUIRED IF LOT DIMENSIONS CANNOT MEET MINIMUM TANK PLACEMENT REQUIREMENTS AS SHOWN



SANITARY SEWER DETAIL

STEP & STEP TANK PLAN VIEW - PERPENDICULAR TO STREET

DETAIL APPROVED BY *[Signature]* DATE *9/15/2026*

NOT TO SCALE

DETAIL NO.

S6L

REVISION: 1

DATE: 9/15/2026

STEP-STEP-TANK-1500 GAL.DWG