

S:\Clients\1754-20 Ron Welsh - 841 Goldridge Road, Santa Rosa\CAD\Septic Design\1754-20 Septic Design.dwg
9/23/2021 9:51 AM Plotted by Jon

GENERAL CONSTRUCTION NOTES

1. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNITY AND HOLD OWNER AND BC ENGINEERING GROUP, INC. HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
2. THE ENGINEER ASSUMES NO RESPONSIBILITY OTHER THAN FOR THE ADEQUACY OF THE DESIGN CONTAINED HEREIN.
3. ALL MATERIALS TO BE USED ARE TO BE APPROVED BY THE ENGINEER PRIOR TO THEIR PLACEMENT. ANY MATERIALS INSTALLED PRIOR TO APPROVAL ARE SUBJECT TO REMOVAL.
4. AFTER COMPLETION OF WORK, WORK AREAS SHALL BE RESTORED TO THE ORIGINAL CONDITION BY THE CONTRACTOR.
5. LOCATION OF UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON PLANS ARE APPROXIMATE ONLY. CONTRACTOR SHALL ASSUME RESPONSIBILITY OF SAID UTILITIES SAFETY DURING CONSTRUCTION AND IF DAMAGED CONTRACTOR SHALL RESTORE SERVICES AT HIS EXPENSE. THE OWNER, THE ENGINEER AND THE COUNTY OF SONOMA ASSUME NO RESPONSIBILITY FOR ANY OBSTRUCTIONS EITHER SHOWN OR NOT SHOWN ON THESE PLANS.
6. CONTRACTOR SHALL PERFORM TRENCH WORK IN ACCORDANCE WITH THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY. SAID WORK SHALL CONFORM TO ALL APPLICABLE OCCUPATIONAL SAFETY AND HEALTH STANDARDS, RULES, REGULATIONS AND ORDERS ESTABLISHED BY THE STATE OF CALIFORNIA AND THE SONOMA COUNTY WELL & SEPTIC DIVISION OF THE PERMIT & RESOURCE MANAGEMENT DEPT.
7. THE CONTRACTOR SHALL OBTAIN A TRENCH (D.I.S. PERMIT) FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO EXCAVATION OF ANY TRENCH. A COPY OF THIS PERMIT MUST BE ON FILE IN THE SONOMA COUNTY PERMIT AND RESOURCE MANAGEMENT DEPARTMENT (SCPRMD) PRIOR TO THE COMMENCEMENT OF WORK.
8. BEFORE ANY EXCAVATION, CALL UNDERGROUND SERVICE ALERT, TOLL FREE AT (800) 642-2444 OR (800) 227-2600.
9. THE CONTRACTOR SHALL DO NO EXCAVATION UNTIL ALL EXISTING UTILITIES HAVE BEEN MARKED IN THE FIELD BY THE APPLICABLE ENTITY RESPONSIBLE FOR THAT PARTICULAR UTILITY. THE CONTRACTOR SHALL NOTIFY EACH UTILITY COMPANY AT LEAST 48 HOURS PRIOR TO STARTING WORK.
10. THE CONTRACTOR SHALL OBTAIN SANITARY SEWER CONSTRUCTION PERMIT(S) (IF NECESSARY), FROM THE SONOMA COUNTY PERMIT AND RESOURCE MANAGEMENT DEPARTMENT FOR, BUT NOT LIMITED TO, THE INSTALLATION OF SEWER MAINS AND SERVICES TO THE PROPOSED PROJECT OR TO EACH LOT IN THE SUBDIVISION.
11. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE SONOMA COUNTY WATER AGENCY "DESIGN AND CONSTRUCTION STANDARDS FOR SANITATION FACILITIES", INCLUDING STANDARD DRAWINGS, (LATEST REVISION).
12. ALL SANITARY SEWER CONSTRUCTION SHALL BE INSPECTED BY AN INSPECTOR FROM THE SONOMA COUNTY PERMIT AND RESOURCE MANAGEMENT DEPARTMENT, INSPECTION DIVISION. CALL: (707) 524-7199 48 HOURS ADVANCE NOTICE IN REQUIRED FOR ALL INSPECTIONS.
13. CONTRACTOR SHALL INSTALL BUILDING SEWER CLEANOUTS AT 2 FT. FROM WALLS. CLEANOUTS IN TRAFFIC AREAS, SHALL BE INSTALLED IN TRAFFIC RATED VALVE BOXES (CHRISTY MODEL G12, OR EQUAL). FOR NON-TRAFFIC AREAS, USE CHRISTY MODEL F8, OR EQUAL, OR EQUAL.)

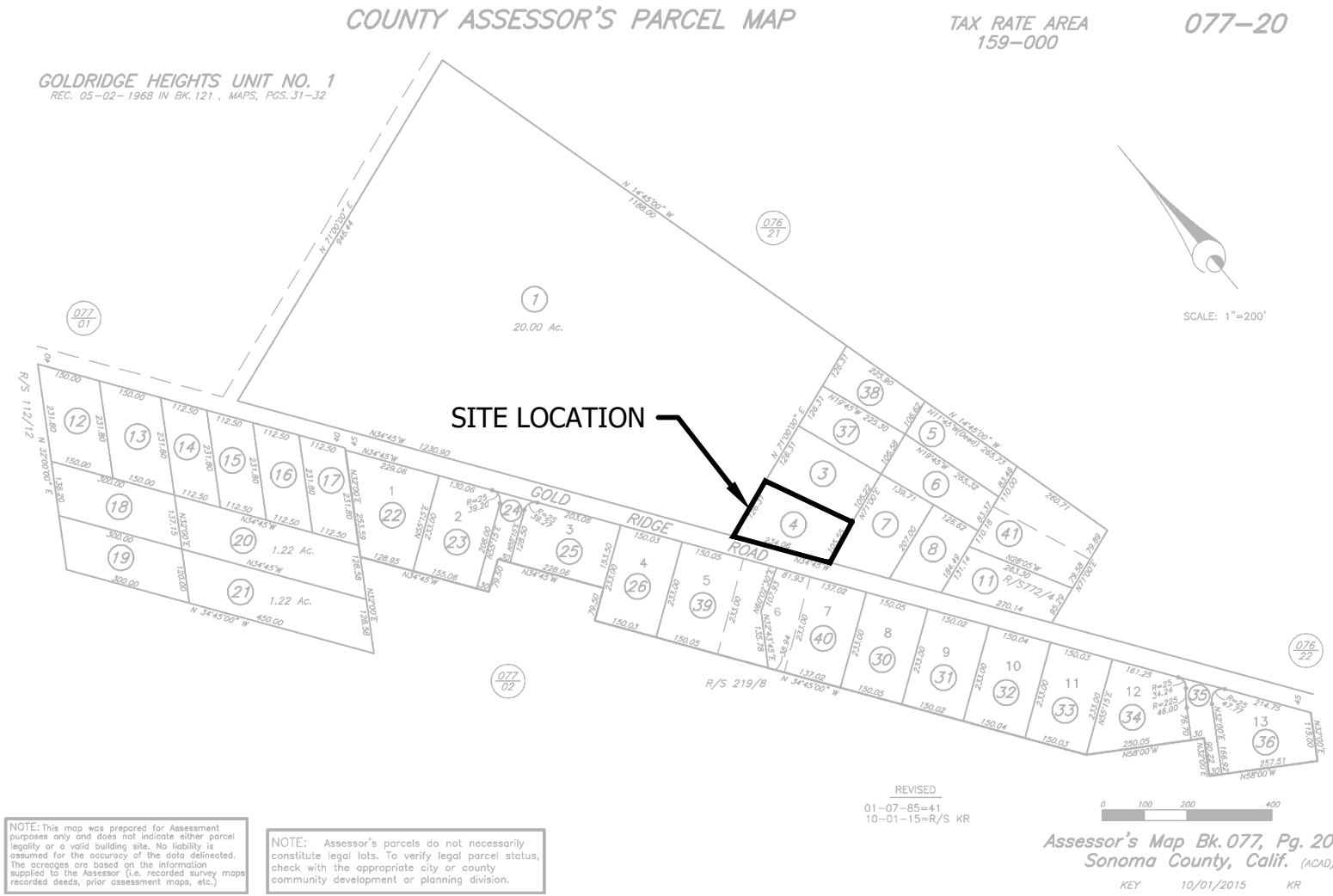
SONOMA COUNTY HEALTH DEPT. SPECIAL NOTES

1. THE ENGINEER SHALL INSPECT THE SITE AND WEATHER CONDITIONS PRIOR TO CONSTRUCTION OF THE SYSTEM. THE ENGINEER MUST VERIFY DRY AND ACCEPTABLE SOIL CONDITIONS FOR CONSTRUCTION AND DECIDE IF CONDITIONS ARE SUITABLE TO BEGIN CONSTRUCTION.
2. THE ENGINEER SHALL VERIFY WITH THE CONTRACTOR THE PROPER STAKING OF THE SYSTEM PRIOR TO ANY CONSTRUCTION. THE SYSTEM DETAILS, CONFIGURATION, LOCATION, CONTOUR, PERCOLATION AREA, EXPANSION AREA, ETC. SHALL BE VERIFIED.
3. THE CONTRACTOR SHALL NOTIFY THE SCPRMD DIVISION OF WELL AND SEPTIC A MINIMUM OF 24 HOURS IN ADVANCE OF WHEN CONSTRUCTION IS TO BEGIN AND CERTIFY THAT THE SOIL CONDITIONS ARE ACCEPTABLE FOR CONSTRUCTION PURPOSES AND THAT THE STAKING OF THE SYSTEM HAS BEEN ACCOMPLISHED AND CERTIFIED.
4. ALL MEETINGS AND INSPECTIONS SHALL BE SCHEDULED WITH THE DESIGNING ENGINEER A MINIMUM OF 48 HOURS IN ADVANCE. THESE SHALL INCLUDE AS A MINIMUM:
 - A. PRE-CONSTRUCTION CONFERENCE.
 - (1) SOIL MOISTURE AT THE APPROPRIATE DEPTHS ARE NOT SO HIGH AS TO HAVE THE SOIL SMEAR OR COMPACT DUE TO CONSTRUCTION ACTIVITIES.
 - (2) IMMINENT WEATHER CONDITIONS APPEAR THAT THEY WILL NOT CREATE UNSUITABLE SOIL MOISTURE CONDITIONS DURING THE COURSE OF CONSTRUCTION.
 - (3) LAYOUT AND STAKING OF THE PRIMARY SYSTEM AND THE RESERVE AREA BOUNDARY TO SUBSTANTIALLY CONFORM TO THE APPROVED CONSTRUCTION PLANS.
 - B. INTERIM INSPECTION, PERFORMED PRIOR TO COVERING ANY ELEMENTS OF THE SYSTEM. VERIFY BY VISUAL INSPECTION AND OPERATION OF THE SYSTEM. A JOINT INSPECTION BY THE ENGINEER, THE CONTRACTOR AND THE SCPRMD DIVISION OF WELL AND SEPTIC IS REQUIRED. INSPECTION SHALL INCLUDE:
 - (1) LINE AND GRADE OF ALL EXCAVATIONS AND FILLS AS APPLICABLE.
 - (2) FUNCTION AND SETTING OF ANY CONTROL DEVICES, INCLUDING BUT NOT LIMITED TO: VALVES, SWITCHES, AND ALARMS.
 - (3) HYDRAULIC TESTING OF ANY PUMP AND DISTRIBUTION SYSTEM TO ASSURE THAT THE PUMP IS ADEQUATE FOR DESIGN FLOWS.
 - (4) ALL THE REMAINING ELEMENTS REQUIRED TO COMPLETE THE SYSTEM SHALL BE ON SITE AT THE TIME FOR VERIFICATION AND APPROVAL BY THE DESIGNER FOR PERFORMANCE WITH THE PLANS AND SPECIFICATIONS.
 - C. FINAL INSPECTION OF COMPLETED SYSTEM AND ALL RELATED ITEMS PER THE CONSTRUCTION DOCUMENTS SHALL BE MADE. A JOINT INSPECTION WITH THE SCPHD MAY BE REQUIRED.
 - (1) THE DESIGNER SHALL VERIFY THAT ALL CONSTRUCTION IS IN GENERAL CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.
 - (2) A FINAL LETTER FROM THE ENGINEER TO THE SCPHD SHALL STATE THAT ALL CONSTRUCTION HAS BEEN COMPLETED, APPROVED AND IS IN CONFORMANCE WITH ALL SPECIFICATIONS.
 - (3) A FINAL INSPECTION BY THE SCPHD IS ALSO REQUIRED. A CONCURRENT INSPECTION IS REQUIRED WHEN DOSE AND ALARM FLOATS MUST BE SET OR WHEN MAJOR CORRECTIONS WERE REQUIRED AT THE INTERIM INSPECTION.

SEPTIC SYSTEM CONSTRUCTION NOTES

1. THE PURPOSE OF THIS SEPTIC SYSTEM DESIGN IS TO INSTALL A CODE COMPLIANT STANDARD GRAVITY SEPTIC SYSTEM AT THE SUBJECT PARCEL LOCATED AT 841 RIGSBY LANE IN SEBASTOPOL. THE PROPOSED CODE COMPLIANT STANDARD GRAVITY SEPTIC SYSTEM IS TO SERVE A PROPOSED THREE BEDROOM RESIDENCE, WITH A TOTAL DOMESTIC WASTEWATER FLOW OF 360 GALLONS PER DAY. THE 360 GALLONS PER DAY PRODUCED BY THE PROPOSED RESIDENCE SHALL BE COLLECTED IN THE PROPOSED 1,200 GALLON SEPTIC TANK, AND THEN TRANSPORTED TO THE PROPOSED 36 INCH DEEP STANDARD GRAVITY TRENCHES WITH 17 INCHES OF ROCK BELOW THE PIPE.
- THE PRIMARY CODE COMPLIANT STANDARD GRAVITY SEPTIC SYSTEM DISPERSAL AREA IS LOCATED IN THE VICINITY OF PRE-PERC SITE EVALUATION (WSR20-0276) PROFILE HOLES A THROUGH C, PERCOLATION TEST (WSR20-0505) HOLES 3 THROUGH 12, AND WET WEATHER GROUNDWATER TEST (WSR20-0172) HOLES 1 THROUGH 3. BASED ON THE AFOREMENTIONED SOIL AND GROUNDWATER TESTING RESULTS, A PERCOLATION RATE OF 42 MPI, AND SOIL APPLICATION RATE (SAR) OF 0.472 GPD/SQ-FT ARE UTILIZED IN THIS SEPTIC DESIGN. A GROUNDWATER DEPTH OF 73 ¾ INCHES IS UTILIZED IN THIS SEPTIC SYSTEM DESIGN.
- THE RESERVE CODE COMPLIANT STANDARD GRAVITY SEPTIC SYSTEM DISPERSAL AREA IS LOCATED IN THE VICINITY OF PRE-PERC SITE EVALUATION (WSR20-0276) PROFILE HOLES A THROUGH C, PERCOLATION TEST (WSR20-0505) HOLES 3 THROUGH 12, AND WET WEATHER GROUNDWATER TEST (WSR20-0172) HOLES 1 THROUGH 3. BASED ON THE AFOREMENTIONED SOIL AND GROUNDWATER TESTING RESULTS, A PERCOLATION RATE OF 42 MPI, AND SOIL APPLICATION RATE (SAR) OF 0.472 GPD/SQ-FT ARE UTILIZED IN THIS SEPTIC DESIGN. A GROUNDWATER DEPTH OF 73 ¾ INCHES IS UTILIZED IN THIS SEPTIC SYSTEM DESIGN.
2. INSTALL 269 LF OF LEACH LINE IN 36 INCH DEEP TRENCHES WITH 17 INCHES OF ROCK BELOW THE PIPE, AS SHOWN ON THE PLANS. CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT SONOMA COUNTY GUIDELINES AND REGULATIONS FOR STANDARD SEWAGE DISPOSAL SYSTEMS.
3. ANY DISCREPANCIES BETWEEN THIS PLAN AND THE ABOVE MENTIONED RULES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION.
4. INSTALL NEW 1,200 GALLON CONCRETE SEPTIC TANK, IAPMO CERTIFIED.
5. INSTALL 4" ABS GRAVITY PIPE FROM PROPOSED RESIDENCE TO THE SEPTIC TANK AND FROM THE SEPTIC TANK TO THE FIRST DISTRIBUTION BOX, 2% MINIMUM SLOPE. CLEAN-OUTS SHALL BE INSTALLED PER PLAN.
6. CONTRACTOR SHALL NOT OVER EXCAVATE THE TRANSMISSION LINE TRENCH. EXCAVATIONS ALLOWING THE SEWAGE TO SPILL FROM LEACH TRENCH TO THE TRANSMISSION LINE TRENCH AND OTHER TRENCHES SHALL BE REJECTED.
7. THE CONTRACTOR SHALL SUBMIT ALL EQUIPMENT SPECIFICATION TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
8. CONTRACTOR SHALL COORDINATE AND OBTAIN ALL INSPECTIONS FROM THE SONOMA COUNTY PRMD AND ENGINEER PRIOR TO FINAL APPROVAL. INSPECTIONS SHALL INCLUDE PUMP ELECTRICAL AND DISTRIBUTION TEST PRIOR TO BACKFILLING AND COVERING. ALL CONSTRUCTION MATERIALS SHALL BE ONSITE AT TIME OF INSPECTION. PROVIDE 48 HOUR NOTICE IN ADVANCE OF DESIRED INSPECTION TIME.
9. ALL CONSTRUCTION MATERIALS AND WORK SHALL CONFORM TO THE SONOMA COUNTY PRMD, DIVISION OF WELL & SEPTIC STANDARDS.
10. NO WELL EXISTS WITHIN 100 FEET OF THE PROPOSED SEPTIC SYSTEM.
11. CONSTRUCTION OF THE TANKS, RISERS AND VALVE BOXES ARE TO MINIMIZE DIRECT GROUND WATER INFILTRATION. ALL GRADING SHALL BE SLOPED SO THAT INCIDENTAL RAIN WATER SHALL DRAIN AWAY FROM STRUCTURES. NO PONDING OR SURFACE WATER SHALL OCCUR WITHIN 50' OF THE SEPTIC SYSTEMS. A WATER TIGHT INSPECTION BY SONOMA COUNTY, ON ALL TANKS, IS REQUIRED.
12. ALL DISTRIBUTION LINES AND BOTTOM OF TRENCHES SHALL BE SET LEVEL.
13. SEPTIC TANK LOCATION SUBJECT TO CHANGE. ANY DEVIATION FROM SEPTIC TANK LOCATION MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

ASSESSOR'S PARCEL MAP
NOT TO SCALE

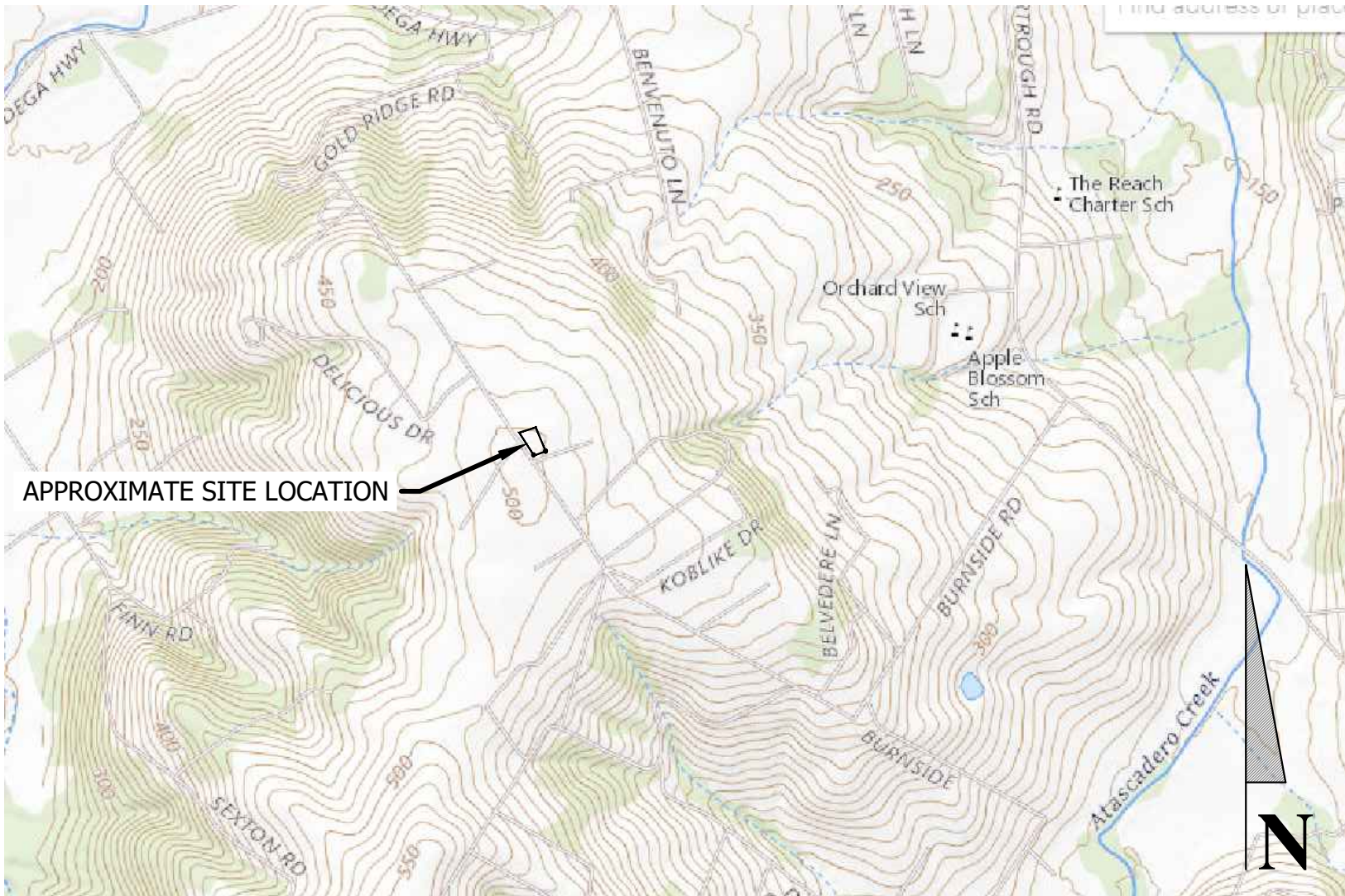


SEPTIC PLANS - STANDARD
PATRICIA BALZER
707-396-7891
841 RIGSBY LANE
SEBASTOPOL, CA 95472
APN# 077-200-004

SHEET INDEX

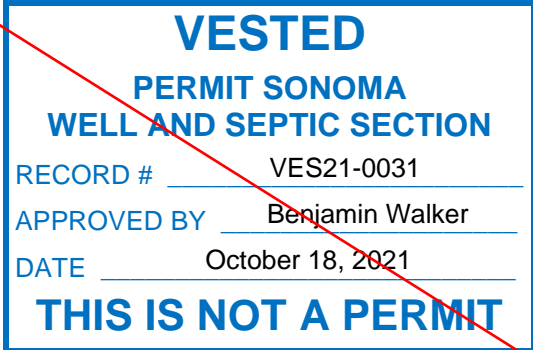
- C1.0 COVER SHEET
- C1.1 SEPTIC PLAN
- C1.2 DETAILS

USGS/VICINITY MAP
NOT TO SCALE





OWNERS NOTES & MAINTENANCE OF THE SYSTEM

1. SEPTIC TANKS AND SUMPS SHOULD BE PERIODICALLY INSPECTED AND CHECKED FOR SIGNS OF LEAKAGE AND GROUNDWATER INTRUSION.
2. IT IS RECOMMENDED THAT THE SEPTIC TANK BE PUMPED ONCE EVERY FIVE YEARS OR WHEN THE SLUDGE LAYER IS GREATER THAN 18 INCHES FROM THE TANK BOTTOM. TANKS SHOULD BE PUMPED BY A LICENSED SEPTIC TANK PUMPER.
3. DISPOSAL OF ANY HAZARDOUS MATERIAL INTO A SEPTIC TANK OR SYSTEM IS UNLAWFUL.
4. PLANT VEGETATION INCOMPATIBLE WITH PROPER FUNCTION OF A SEWAGE DISPOSAL SYSTEM SHALL NOT BE PLANTED IN AN AREA WHICH MAY EFFECT THE DISPOSAL FIELD AND/OR THE RESERVE AREA (i.e. INVASIVE ROOTS).
5. DISCING, RIPPING, OR PLOWING OF THE SOIL IN A MANNER THAT WILL ADVERSELY IMPACT THE FUNCTION OF THE SEWAGE DISPOSAL SYSTEM AND/OR RESERVE AREA SHALL NOT BE ALLOWED.
6. PROPERTY OWNERS ARE REQUIRED TO NOTIFY SCPRMD OF ANY MALFUNCTION.
7. PROPERTY OWNERS ARE RESPONSIBLE FOR MAINTAINING ALL SURFACE AND SUBSURFACE DRAINAGE IMPROVEMENTS.
8. PROPERTY OWNERS ARE RESPONSIBLE FOR PREVENTING DISTURBANCE TO THE SOIL COVER BY ANIMALS, VEHICLES, STRUCTURES, EROSION, ETC.
9. PROPERTY OWNERS SHALL PREVENT HYDRAULIC OVERLOADING.



NOT FOR CONSTRUCTION

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BC ENGINEERING GROUP, INC. CIVIL ENGINEERING & LAND PLANNING www.bceengineeringgroup.com Phone: 707.542.4321 SANTA ROSA OFFICE: 418 B Street, Third Floor, Santa Rosa CA 95401 UKIAH OFFICE: 603 S. State Street, Ukiah CA 95422			
			
LANDS OF BALZER COVER SHEET 841 RIGSBY LANE SEBASTOPOL, CA 95472			
			
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WATER TIGHT TEST REQUIREMENTS

1. A WATER TIGHT TEST INSPECTION SHALL BE SCHEDULE WITH THE PERMIT AUTHORITY. THE INSPECTION RESULTS SHALL BE RECORDED AS A PASS OR FAIL BY THE PERMIT AUTHORITY.
2. IN THE EVENT OF A FAILED WATER TIGHT TEST, A RE-TEST IS ALLOWABLE. A REINSPECTION FEE WILL BE ASSESSED PRIOR TO SCHEDULING THE RETESTING.
3. TEST PROCEDURE:
 - 3.1. THE TANKS SHALL BE INSTALLED PROPERLY, ACCORDING TO INDUSTRY STANDARD OR MANUFACTURES' REQUIREMENTS WITH THE BACK FILL PLACED AROUND THE TANK(S) AT A LEVEL BELOW THE INVERT OF THE INLET PIPE AND OUTLET PIPE AREAS.
 - 3.2. THE LICENSED CONTRACTOR SHALL FILL THE SEPTIC TANK, PRE-TREATMENT TANK, AND OR SUMP TANK WITH WATER.
 - 3.3. THE WATER SHALL BE FILLED UP INTO THE RISER(S) A MINIMUM OF 2 INCHES.
 - 3.4. THE WATER LEVEL SHALL BE MARKED AT THE BEGINNING OF THE WATER TIGHT TEST.
 - 3.5. THE TEST DURATION SHALL BE 30 MINUTES.
 - 3.6. A WATER LEVEL DECLINE OF 1/8 INCH OR MORE INDICATES A FAILED WATER TIGHT TEST.

KEYNOTES:

- ① INSTALL CLEANOUTS, TYP. PER DETAIL SHEET C1.2
- ② INSTALL 10 LF OF 4" ABS TRANSMISSION PIPE MIN. SLOPE = 2% MIN. COVER = 18"
- ③ INSTALL 13 LF OF 4" ABS TRANSMISSION PIPE MIN. SLOPE = 2% MIN. COVER = 18"
- ④ APPROXIMATE LOCATION OF PRE-PERC PROFILE HOLE (WSR20-0276), TYP.
- ⑤ APPROXIMATE LOCATION OF WWGT HOLE (WSR20-0172), TYP.
- ⑥ APPROXIMATE LOCATION OF PERCOLATION TEST HOLE (WSR20-0505), TYP.
- ⑦ APPROXIMATE LOCATION OF NEIGHBORING WELL, TYP.

NOTES:

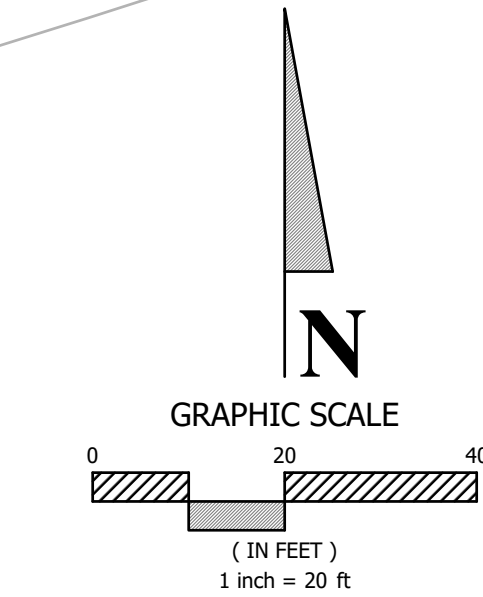
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PROPERTY LINES ARE APPROXIMATE AND PER SONOMA COUNTY GIS DATA. PROPERTY LINES DO NOT REPRESENT A BOUNDARY SURVEY.

ALL EXISTING AND PROPOSED FEATURES SHOWN ARE APPROXIMATE.

APPROVED
PERMIT SONOMA
WELL AND SEPTIC SECTION
APPROVED BY Maria Carranza
DATE September 23, 2022
PERMIT # SEP22-0403

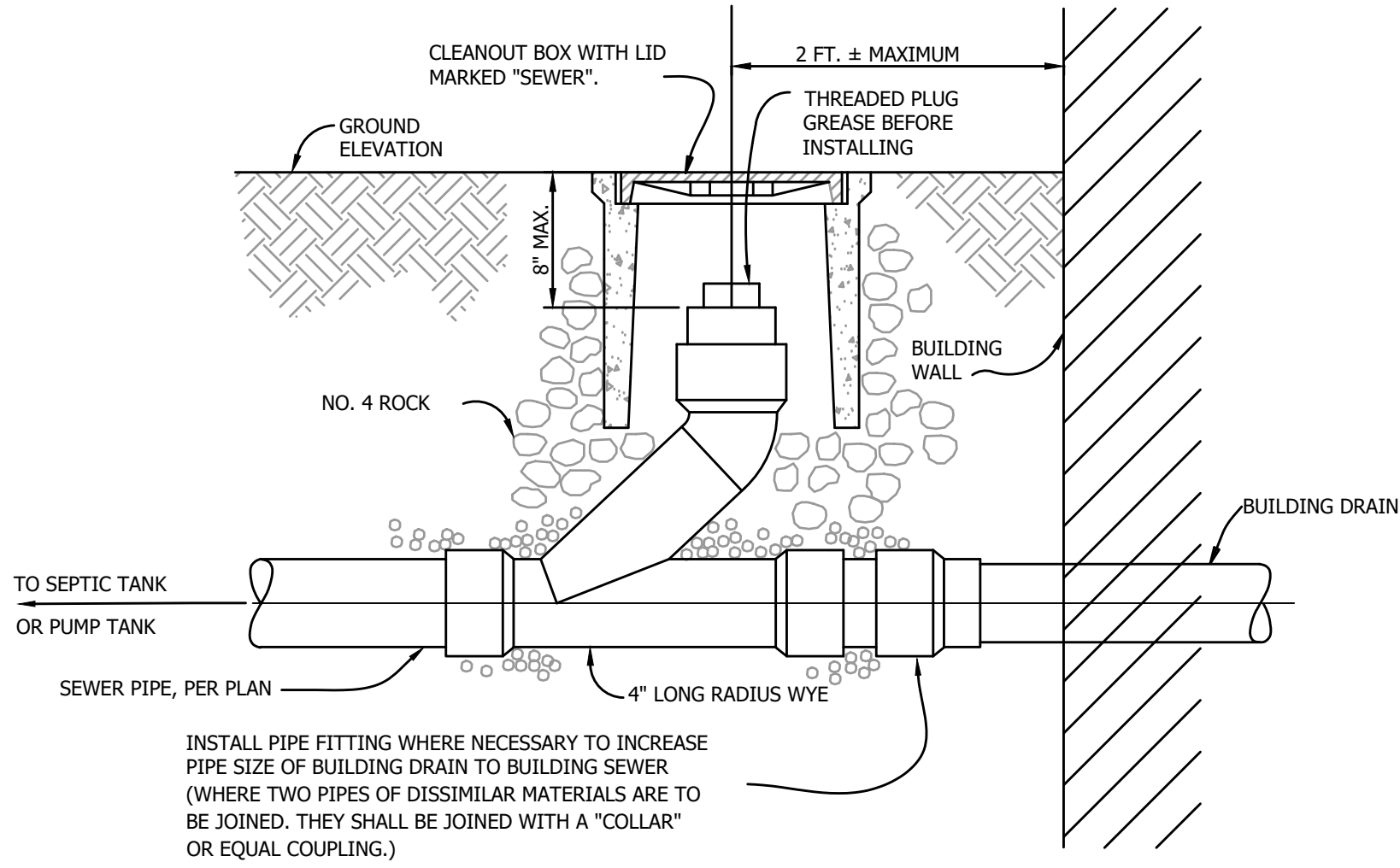
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PERMIT SONOMA
WELL AND SEPTIC SECTION
RECORD # VES21-0031
APPROVED BY Benjamin Walker
DATE October 18, 2021
THIS IS NOT A PERMIT



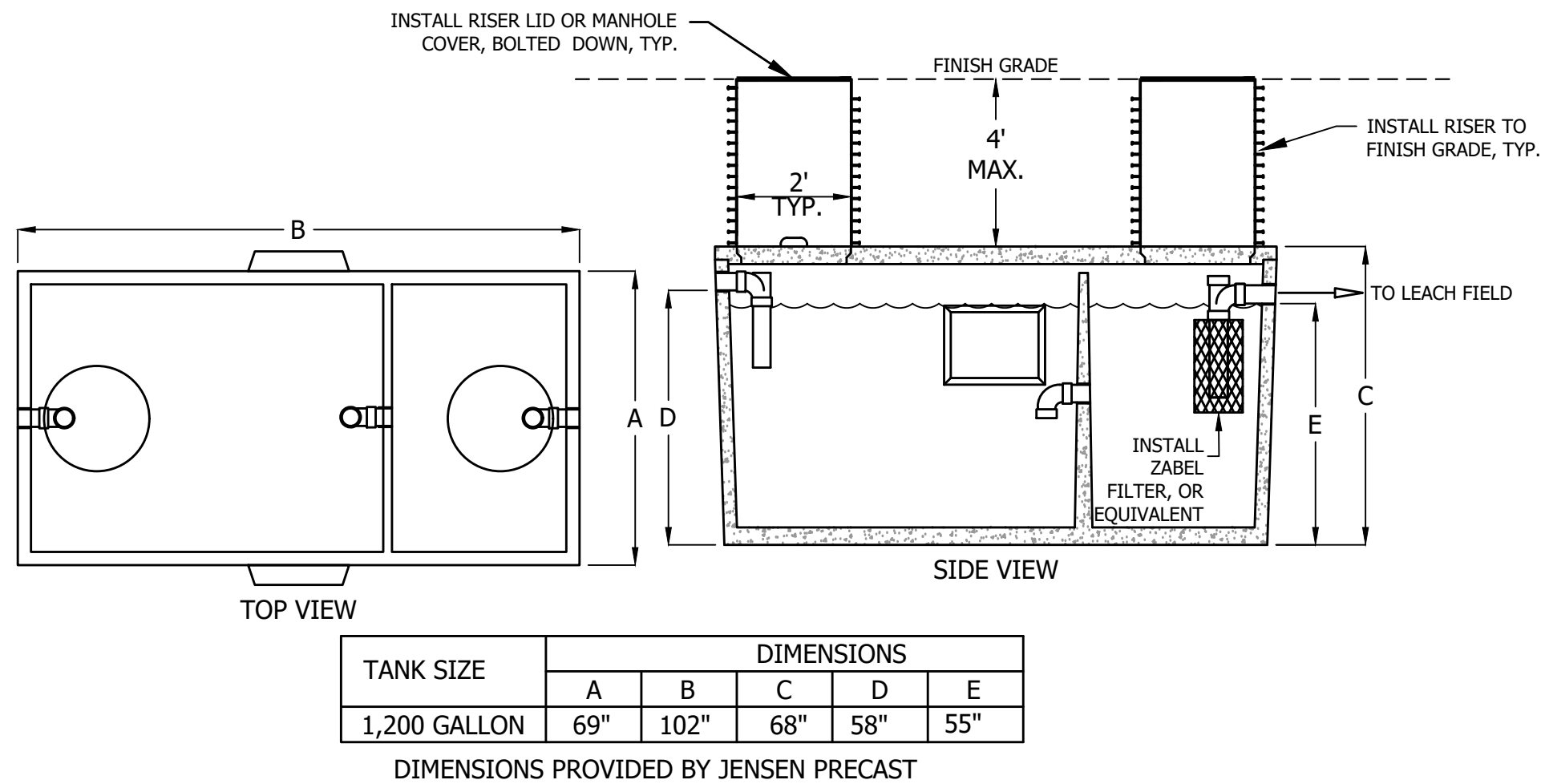
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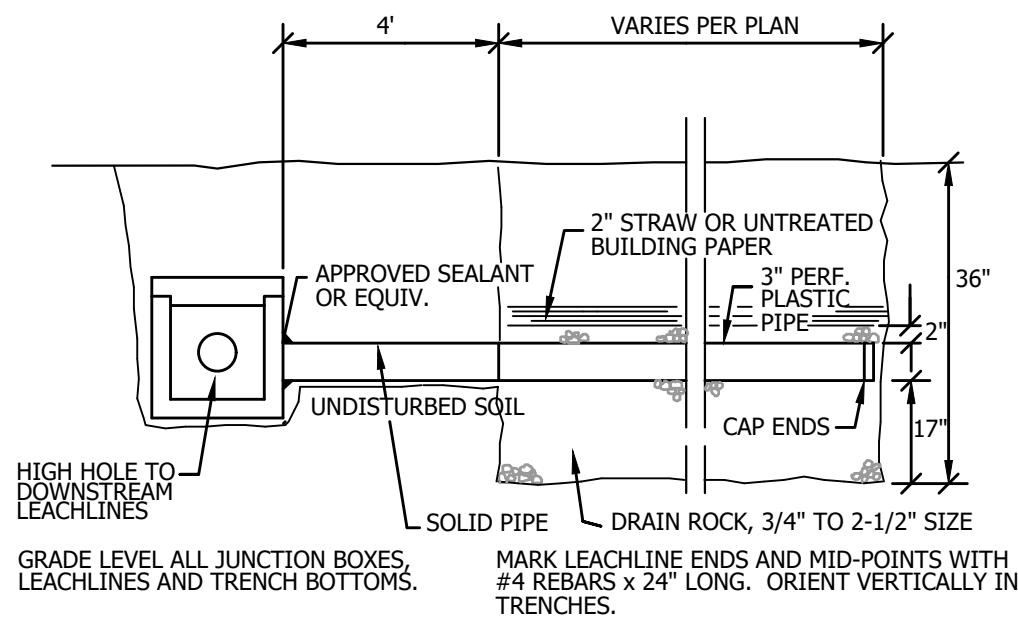
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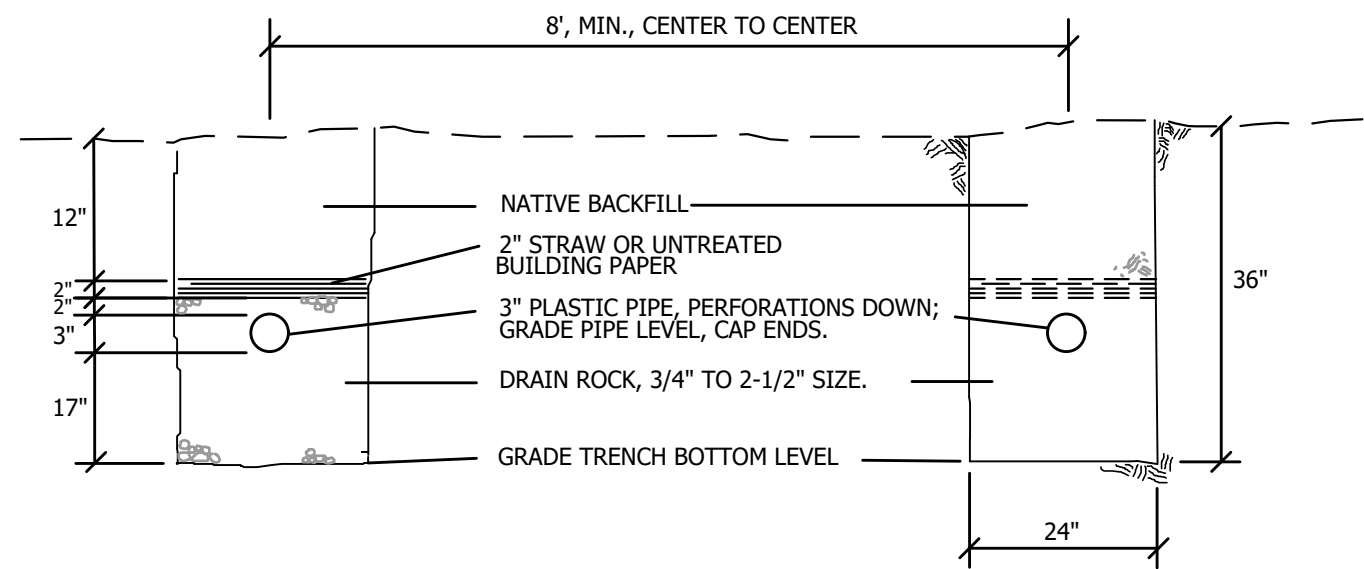
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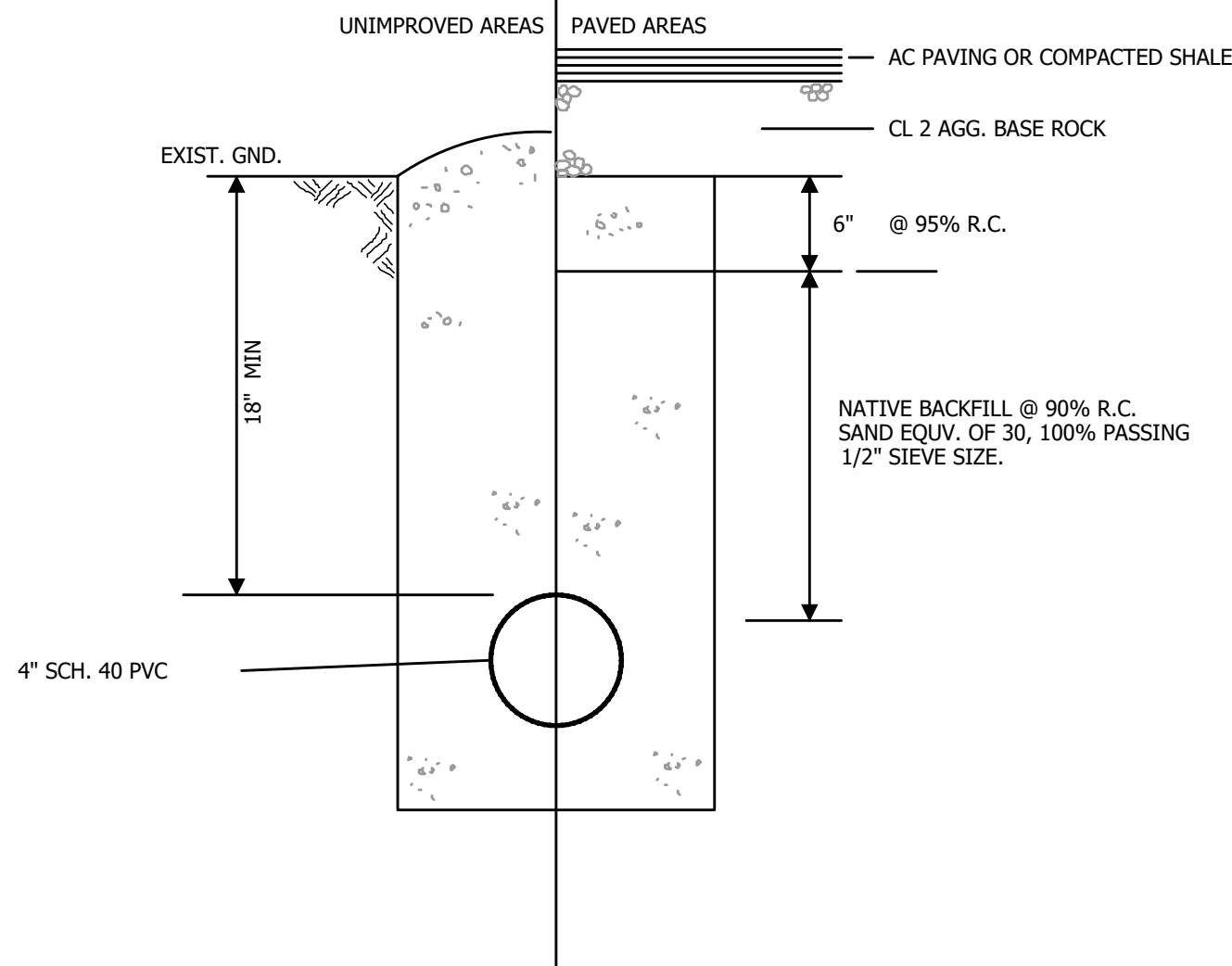
ST 1,200 GALLON SEPTIC TANK NO SCALE



PL PROFILE LEACHLINE - TOP ENTRY NO SCALE



LS TYPICAL LEACHLINE SECTION NO SCALE



GL GRAVITY LINE TRENCH NO SCALE

APPROVED
PERMIT SONOMA
WELL AND SEPTIC SECTION
APPROVED BY Maria Carranza
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VESTED
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PROFESSIONAL SEAL
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STATE OF CALIFORNIA
CIVIL ENGINEER

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