

# CALCULATIONS:

4 BEDROOMS

PERC RATE 40.0 MIN/IN

Q = 4 BEDROOMS = 150

$$A = \frac{(1.6)(1.5)(4)(150)\sqrt{40.0}}{5}$$

A = 1821 SF

FOR QUICK4 INFILTRATORS @ 65% (35% REDUCTION):

$$\frac{(1821)}{10.67} = 170 \text{ INFILTRATORS} = 0.65 = 110.9 \text{ UNITS}$$

$$\text{CONTACT AREA: } (10.67)(110) = 1174 \text{ SQ FT}$$

ALL BENDS LIMITED TO 45 DEGREE ELLS OR LONG SWEEP QUARTER BENDS. AREAS UNDER DRIVEWAYS SHALL BE PROTECTED AS PER EL PASO COUNTY REGULATIONS.

BUILDING SEWER CLEAN-OUTS SHALL BE INSTALLED AT INTERVALS NOT TO EXCEED 50 FT IN STRAIGHT RUNS AND WHEN THE CUMULATIVE CHANGE IN DIRECTION EXCEEDS 135 DEGREES.

4" PVC SOLID PIPE FROM SEPTIC TANK  
USE 45 DEG. ELLS OR LONG SWEEP QUARTER BENDS  
INSTALL CLEANOUTS AT 50 FT. MAX. INTERVALS

SITE PLAN PREPARED FROM PRELIMINARY DATA.  
VERIFY ALL LOCATIONS PRIOR TO EXCAVATION.

## NOTES:

ALL WORK PER EL PASO COUNTY HEALTH DEPARTMENT CRITERIA

GRADE SURROUNDING AREA TO DRAIN AWAY FROM TANK.

MAINTAIN 2.0% MIN AND 3.0% MAX GRADE ON PIPE FEEDING SEPTIC TANK.

CONTRACTOR/HOMEOWNER IS RESPONSIBLE FOR PERMIT. CONTRACTOR/HOMEOWNER MUST OBTAIN APPROVAL OF ENGINEERED SYSTEM FROM EL PASO COUNTY HEALTH DEPARTMENT. CONTRACTOR/HOMEOWNER MUST VERIFY SETBACKS AND OBTAIN UTILITY CLEARANCES PRIOR TO CONSTRUCTION.

DUE TO THE POSSIBILITY OF UNKNOWN WATER USAGE FACTORS, ARTQUEST DOES NOT WARRANT THIS SEPTIC SYSTEM AGAINST FAILURE OR DAMAGE OF ANY TYPE.

VEHICULAR OR HOOFED ANIMAL TRAFFIC OF ANY KIND OVER ANY PART OF SYSTEM MAY CAUSE PREMATURE FAILURE AND IS PROHIBITED.

REFER TO SHEET 2 FOR DETAILS.

## INSPECTIONS REQUIRED ARE AS FOLLOWS:

- 1.) ENGINEER TO VERIFY FIELD LOCATION AT TIME OF CONSTRUCTION
- 2.) ENGINEER WILL INSPECT THE INSTALLATION OF GRAVEL BED, SEPTIC TANK, ETC. PRIOR TO BACKFILL.
- 3.) ENGINEER TO INSPECT THE FIELD AFTER BACKFILL TO INSURE MIN. COVER AND PROPER DRAINAGE AWAY FROM FIELD.
- 4.) SOIL CONDITIONS TO BE VERIFIED BY SOIL ENGINEER AT TIME OF INSTALLATION

ArtQuest

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No.	Description/Notes	Date
1	REUSE, PUMPING TANK	8 MAY 06



ARTQUEST HAS PROVIDED THIS DESIGN IN ACCORDANCE WITH THE STANDARDS OF PRACTICE COMMON TO THE AREA. HOWEVER, AS WITH ALL UNDERGROUND ABSORPTION FIELDS, GUARANTEE FROM FAILURE IS IMPOSSIBLE. EVEN WITH PROPER INSTALLATION, AS OUTLINED FOR THIS PROPOSED CONSTRUCTION, THERE CAN REMAIN MANY UNCERTAINTIES, AND DIFFICULTIES CAN STILL ARISE IN THE OPERATION OF THE SYSTEM IN THE FUTURE. PROPER DESIGN, CONSTRUCTION, AND MAINTENANCE CAN ASSIST IN MINIMIZING UNCERTAINTIES, BUT CANNOT ENTIRELY ELIMINATE THEM. HOMEOWNERS SHOULD BE ADVISED OF MAINTENANCE AND SPECIAL CONSIDERATIONS FOR SEPTIC SYSTEMS. ARTQUEST PROVIDES NO WARRANTY OF THIS DESIGN OR INSTALLATION.



Project: 26076	Project Name and Address:
Sheet: 1 of 2	PALACE HOMES
Date: 10/7/2009	14370 AIKEN RIDE VIEW
PRG Job#: 15321	LOT 6, TURKEY CANON RANCH
Drawn by: CEM	ESTATES S/D
Checked by: CEM	EL PASO COUNTY, CO