



COCONINO COUNTY ARIZONA
COMMUNITY DEVELOPMENT DEPARTMENT
Environmental Quality

Jay Christelman, Director

**Request for Approval of an
Alternative Design, Setback, Installation or Operational Feature**
Per R18-9-A312(G)
May 17, 2019

The purpose of R18-9-A312(G) is to allow the designer of an onsite wastewater system to propose an alternative design, setback, installation or operational feature that will achieve equal or better performance compared to the general permit requirement.

This CCCD EQ application and justification has been partially completed to assist the applicant and their onsite wastewater system designer with a feature that CCCD EQ believes may be applicable to multiple similar situations.

The designer must complete the application and justification. The designer must sign or seal the justification as any other Alternative Feature application. The applicant must sign the application as any other Alternative Feature application.

CCCD EQ will review the request as they would any other request. It may be denied for the same reasons that any other request might be denied.

D BOX

The installation of a straight tee fitting on undisturbed soil would be likely to provide equal if not better performance due to less contractor error on installation or shifting of the box in the field from moisture. It is proposed that, a straight T fitting be allowed for installations of two leach trenches instead of the distribution box (D box).



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CCCD EQ:	PERMIT NO.:	DATE
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SITE INFORMATION		
ASSESSOR PARCEL #:	_____	
PROPERTY ADDRESS:	_____	
SUBDIVISION	UNIT	LOT
_____	_____	_____

APPLICANT (person responsible for design, construction, operation and overall compliance):		
NAME / CO.:	_____	
ADDRESS:	_____	
E-MAIL:	PHONE#	_____
_____	_____	_____

DESIGNER / ENGINEER		
NAME / CO.:	_____	
ADDRESS:	_____	
E-MAIL:	PHONE#	_____
_____	_____	_____

1. Rule Citation of Requirement for Which Change is Requested:
AAC R18-9-E302(C)(1)(d) Distribution Box
2. Description of Requested Change:
Refer to attachment.
Continued on Attachments <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
3. Justification for Requested Change:
Refer to attachment.
Continued on Attachments <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

CERTIFICATION OF COMPLIANCE: To be completed by the applicant.		
I certify that this Request for Approval of an Alternative Design, Setback, Installation or Operational Feature and attachments were prepared under my direction or authorization and all information is, to the best of my knowledge, true, accurate, and complete. I also certify that the treatment and disposal system described in this form is or will be designed, constructed, and operated in accordance with the terms and conditions of Arizona Administrative Code, Title 18, Chapter 9, Article 3 regarding aquifer protection permits and applicable requirements of Arizona Revised Statutes Title 45, Chapter 2. I am aware that there are significant penalties for submitting false information including permit revocation as well the possibility of fine and imprisonment for knowing violations.		
_____	_____	_____
PRINTED	SIGNATURE	DATE

DESIGNER HEADER

1. Rule Citation of Requirement for Which Change is Requested:

AAC R18-9-E302(C)(1)(d) Distribution Box

2. Description of Requested Change:

The use of a straight tee fitting is requested instead of a distribution box.

The tee fitting will be installed level per the requirement for a distribution box on a stable level surface. Each of the two trench laterals shall be at the same elevation.

3. Justification for the Requested Change:

Distribution boxes have been shown to be highly inaccurate in producing equal flows for more than two leach lines. (NAWT 2006). It is believed to be due to the added construction effort required with the use of a distribution box: ensuring the box is set with inverts level, providing a concrete pad that must be level and coating the inside of a concrete D-Box with a bituminous coating.

The installation of a straight tee fitting on stable undisturbed soil is expected to provide equal if not better performance due to less contractor error on installation or shifting of the box in the field. The two trench laterals are at the same level providing a distribution that is stable and less prone to shifting during its operational lifetime.

Signature

Date