

East Davis
Grey Water System

Eric Dolan

How this project came to be.....

Summer usage 2X
above average

28 Fruit Trees

8 raised beds

4 Humans

1 dog

2 Rabbits

2 Guinea Pigs

6 Chickens



Current Floor Plans

GAS PIPING SCHEMATIC NOTES

1. Gas pipe system was sized per the 2018 California Plumbing Code Section 1216 and Table 1216.1.
2. Piping materials shall be Schedule 40 metallic pipe.
3. Pipe sizes should be re-evaluated if the run from the gas meter to the furthest appliance (Tankless Water Heater) exceeds 60 feet.
4. Contractor to verify or provide accurate sized gas piping.
5. Provide weather protection for gas meter as needed.

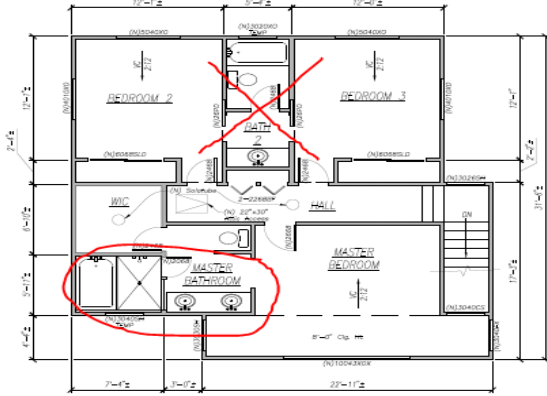
BUILDING ENVELOPE & T24 ENERGY REQUIREMENTS	
COMPONENT	MIN. REQUIREMENT
ATMOSPHERIC INSULATION	4" R-19, Option 1 if R-19
WALL INSULATION	R-13
FLOOR INSULATION	R-13
WINDOWS	0.32 U-factor
DOOR WEATHERSTRIP	0.02 air cfm
FAU	0.05 A
CONDENSATION	15 GPD/yr
GLAZING	R-2
MERV TESTING	DUCT 7

PLAN LEGEND

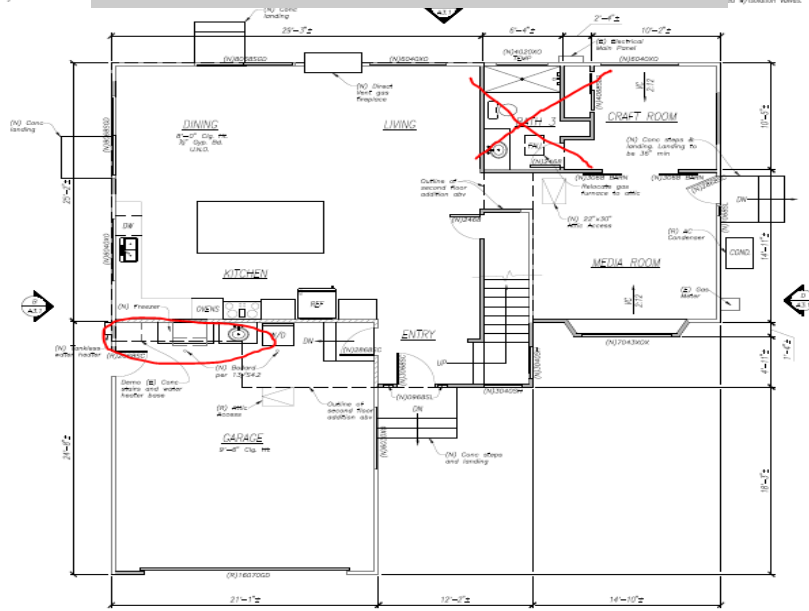
- 1/2" dia steel @ 18"oc
- 1/4" dia steel @ 18"oc
- 1/2" dia steel @ 18"oc w/10' dia separation assembly per OAC Title 24.2

First Story Garage/Kitchen/Family Room

Second Story 3 BDRMS/2 Bath



PROPOSED ADDITION FLOOR PLAN



PROPOSED FIRST FLOOR PLAN

WWW.BARRISH.COM
barrish pelham
Consulting Engineers
Structural/Mechanical/Electrical



DOLAN RESIDENCE
1125 JUNIPER PLACE
DAVIS, CA 95606

PROPOSED FLOOR PLANS

PROJECT	DOLAN RESIDENCE
DESIGNER	Barry Pelham
DATE	12/05/18
DRAWN	JRO
CHECKED	18-243-J2
JOB NO.	A2.1

Preliminary
12/14/2018 4:57:20 PM

A New Beginning

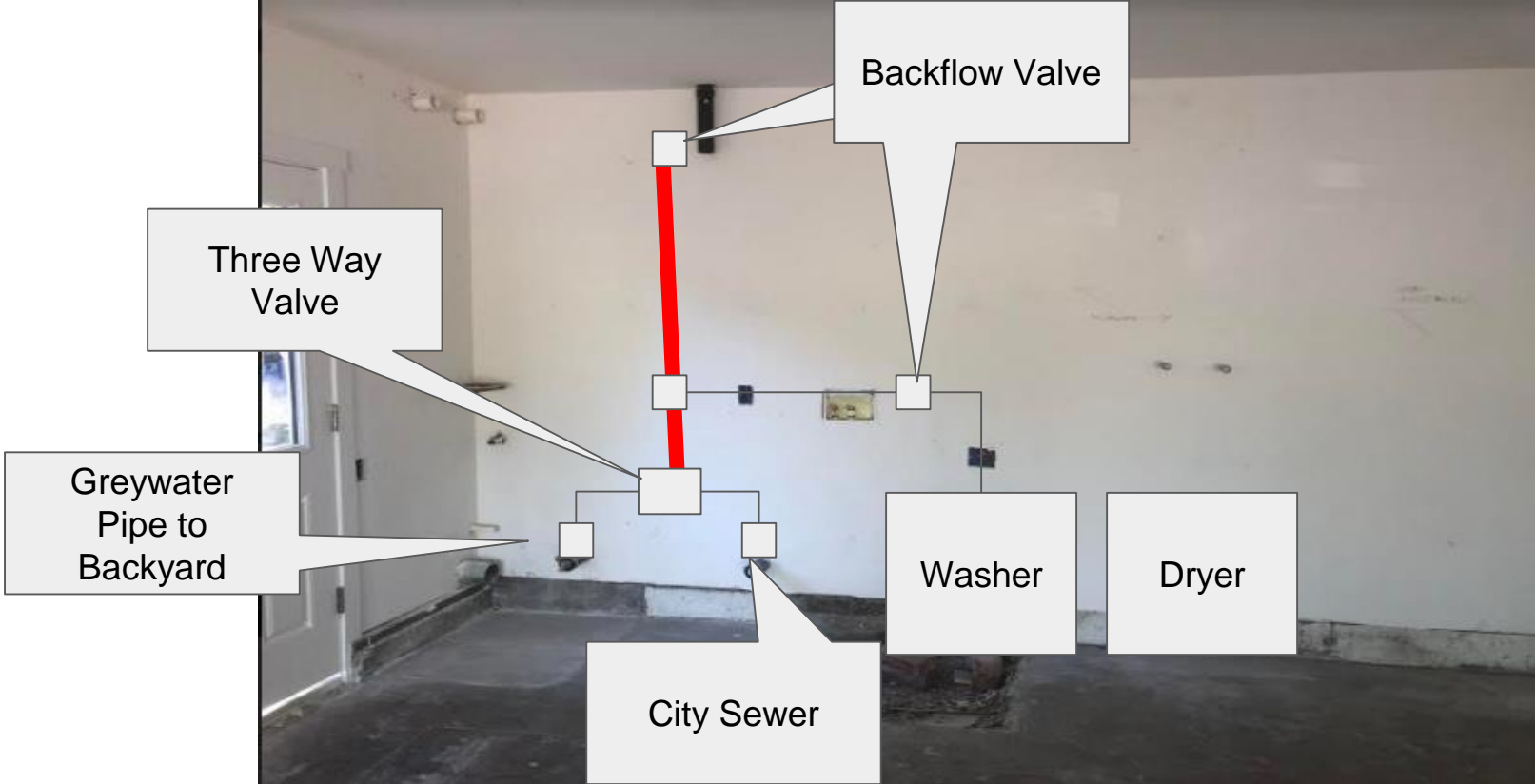


Progress has been made!!!

Location of Grey Water System-outside



Updated Picture of System



Observations/Learnings

Tying in pipe layout with House Structural while minimizing complexity-Value engineering-Target 80%

How to send water to ¼ acre of trees over 200 feet away-Don't over engineer--do one area well

Navigating through City of Davis Permitting- Standard Work Needed

Builders are not fluent in Grey Water Design incorporation-DH has been great but this is new for them

I have permit submission and can share---it is not approved yet.....

Finding a 3 way with smooth bore interior-[grey water systems FLO2 Valve](#)

