

# PLUMBING NC II

## TRAINING LESSON



### **SUNNY B. OJEDA, RMP**

Technical Drafting / Plumbing Trainer  
San Jose Del Monte National Trade School  
SJDM City, Bulacan

# TARGETS

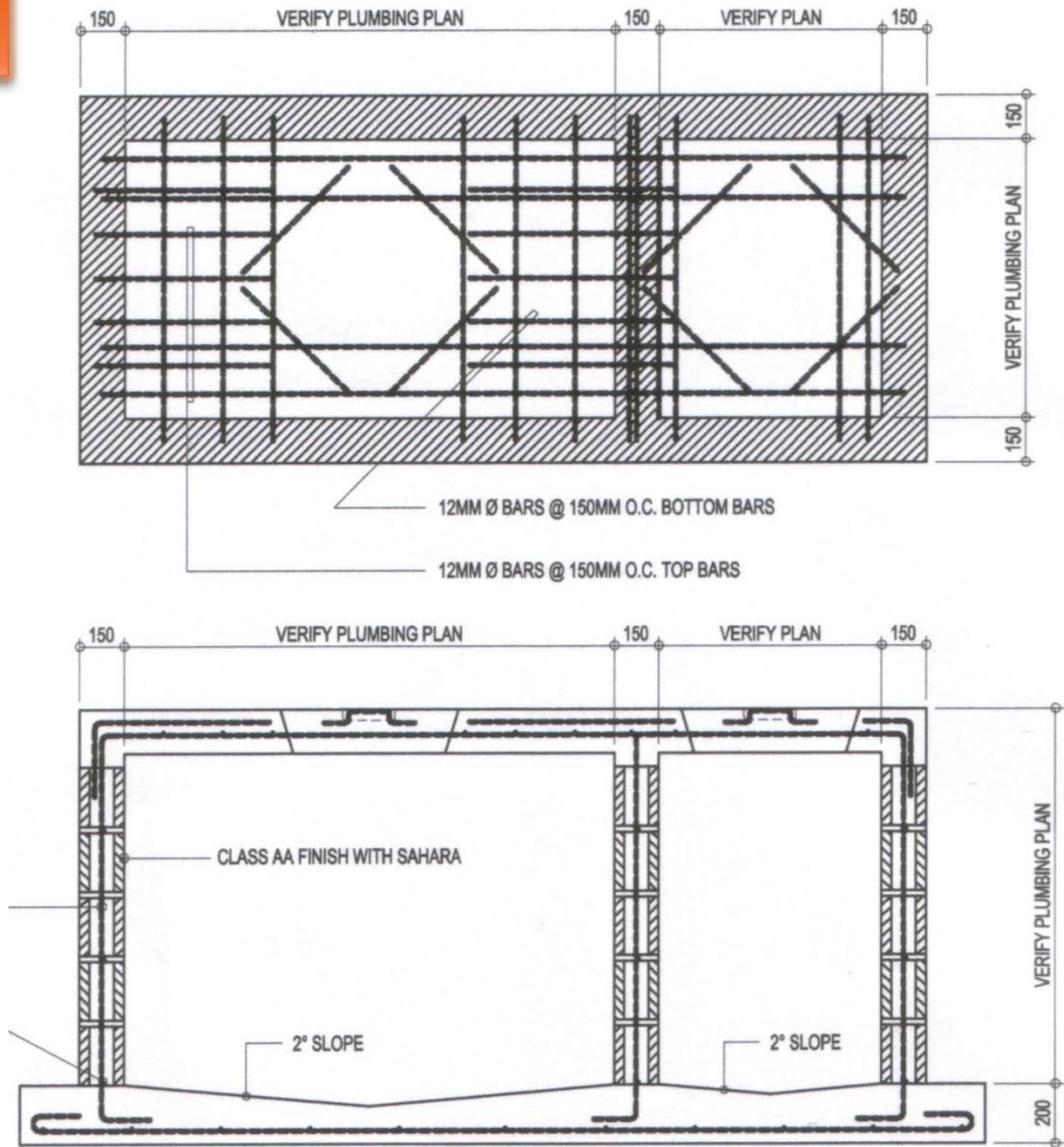
- Septic Tank (Plan & Section)
- Other Plumbing Details
- Water Filter System
- Drawing Water Distribution Layout
- Drawing Storm and Sanitary Layout
- Drawing Partial Isometric Layout
- Joining & Fusing of Pipes

## 2 KRITIKAL SA PAGSABOG NG POSO NEGRO

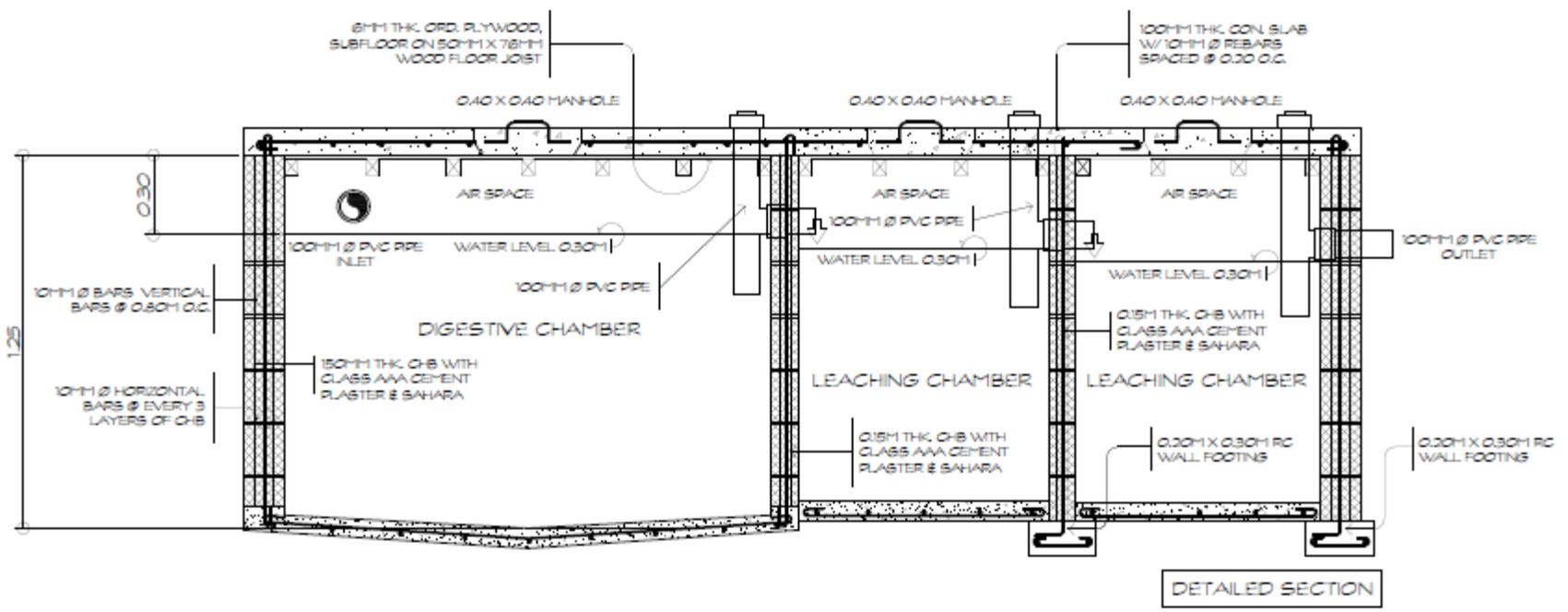
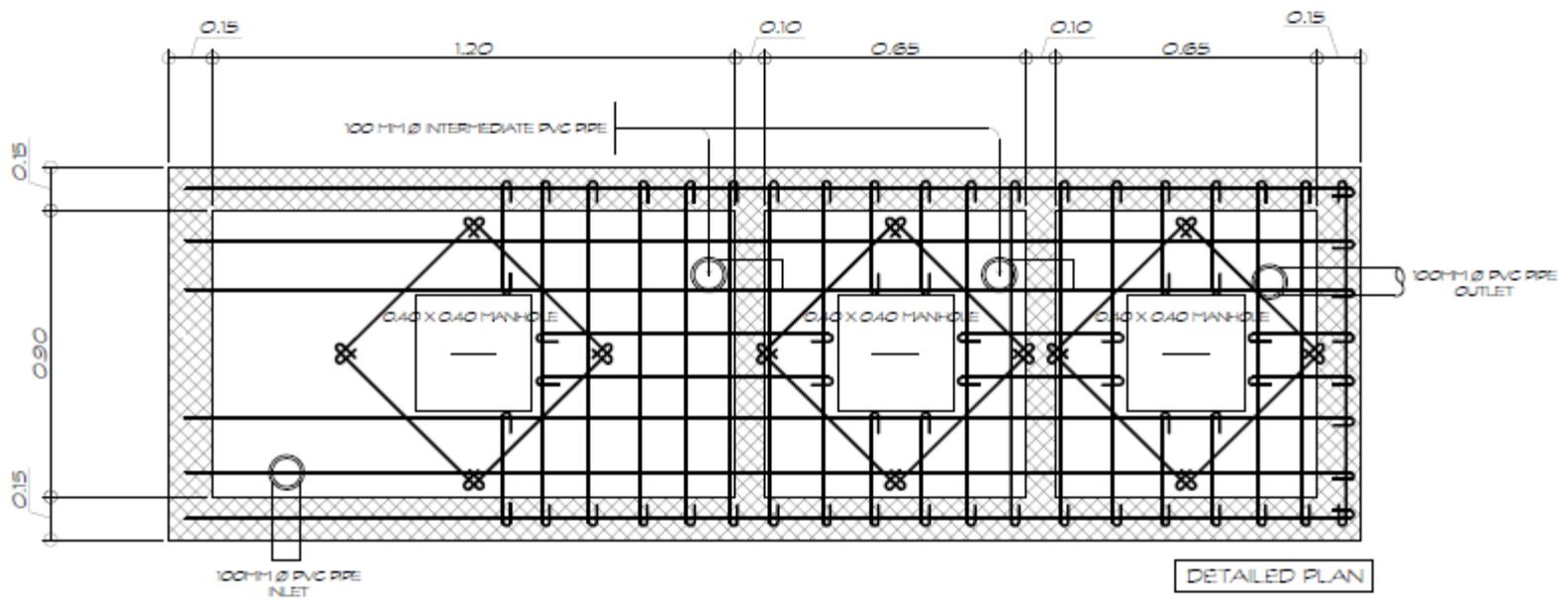
Christian Ryan Sta. Ana (**Pilipino Star Ngayon**) | February 21, 2015 -

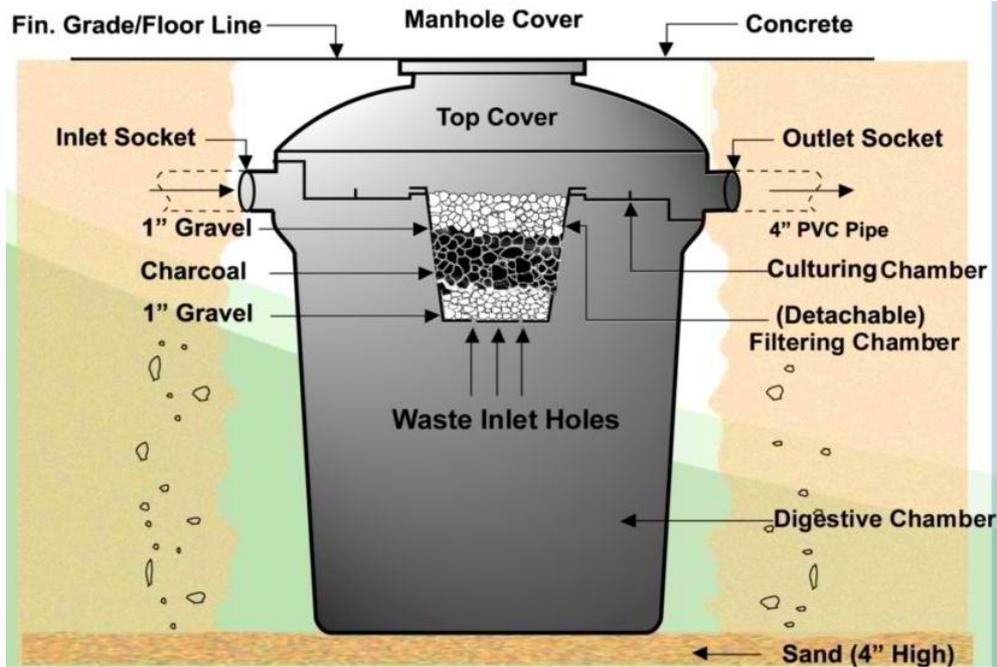
NUEVA ECIJA, Philippines – Dalawang construction workers ang malubhang nasugatan makaraang sumabog ang septic tank sa loob ng bodega sa Muñoz City, Nueva Ecija noong Huwebes ng umaga. Naisugod sa Paulino J. Garcia Memorial Research and Medical Center sa Cabanatuan City ang dalawang biktima na sina Ernesto Constantino Jr., 41, ng Villa Pinili, Barangay Bantug, Muñoz; at Edwin Fulgerao ng Barangay Malayantoc, bayan ng Sto. Domingo. Sa police report na nakarating kay P/Supt. Michael Angelo Zuñiga, bandang alas-9:30 ng umaga ng sumabog ang poso negro sa loob ng warehouse na pag-aari ni Dennis Lazaro ng Sampaguita Street sa Barangay Poblacion West sa nasabing lungsod. Nabatid na nagbudbod ng kalburo ang dalawang biktima upang mawala ang masangsang na amoy sa loob ng bodega subalit biglang sumabog ang poso negro na sinasabing may **methane gas**.

# SEPTIC TANK



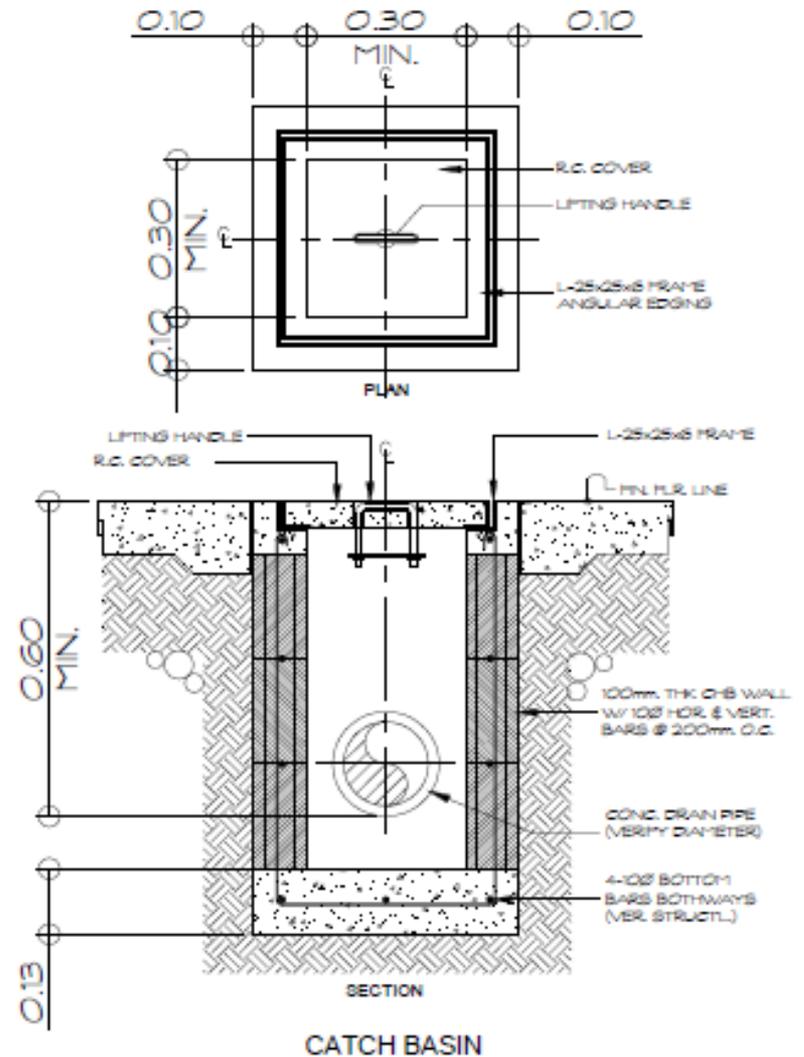
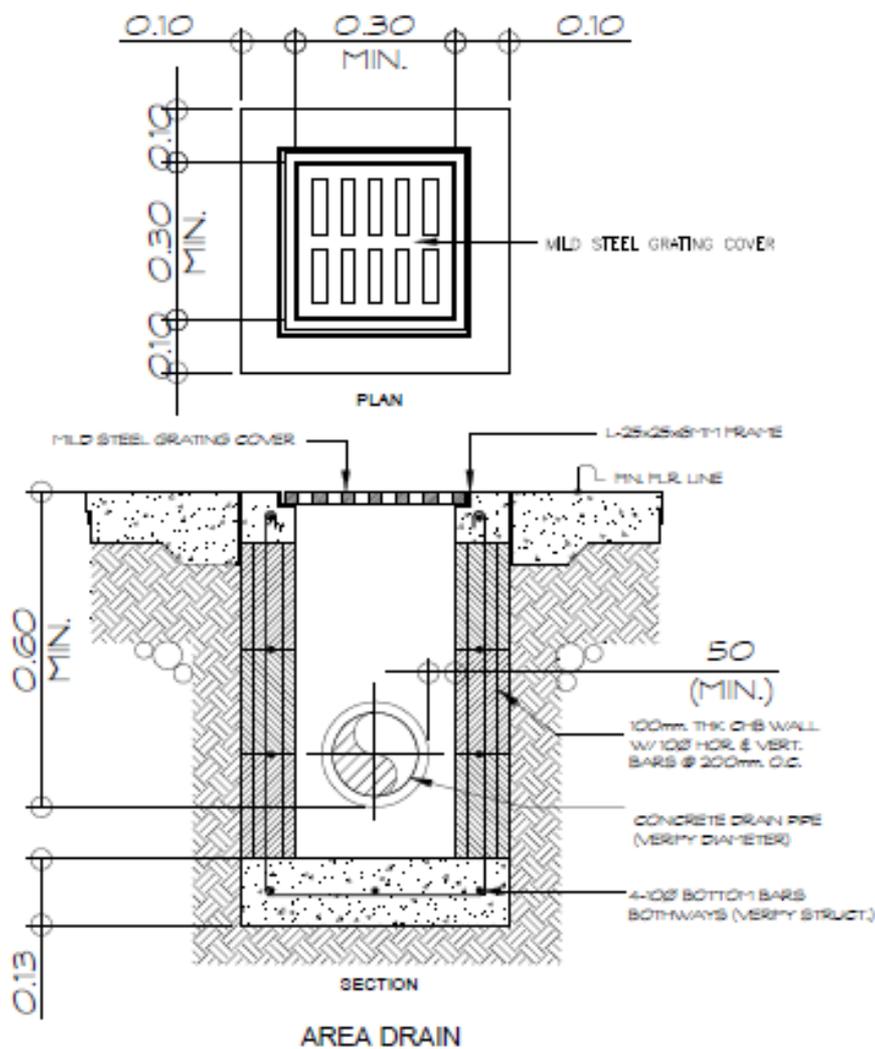
SEPTIC TANK DETAILS  
SCALE: 1:20



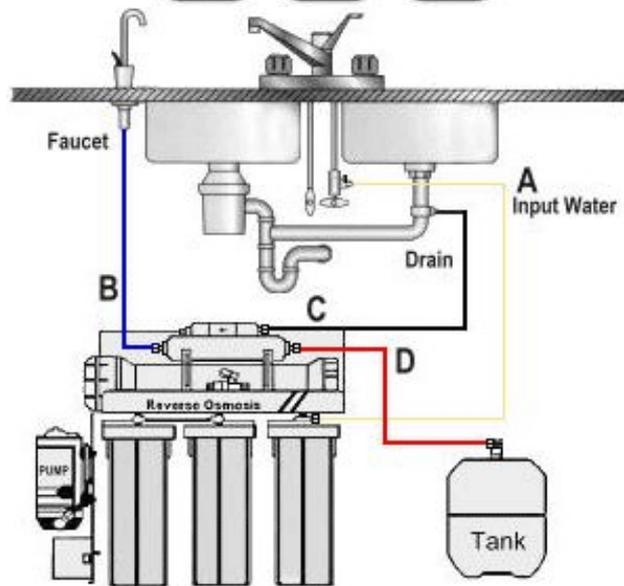
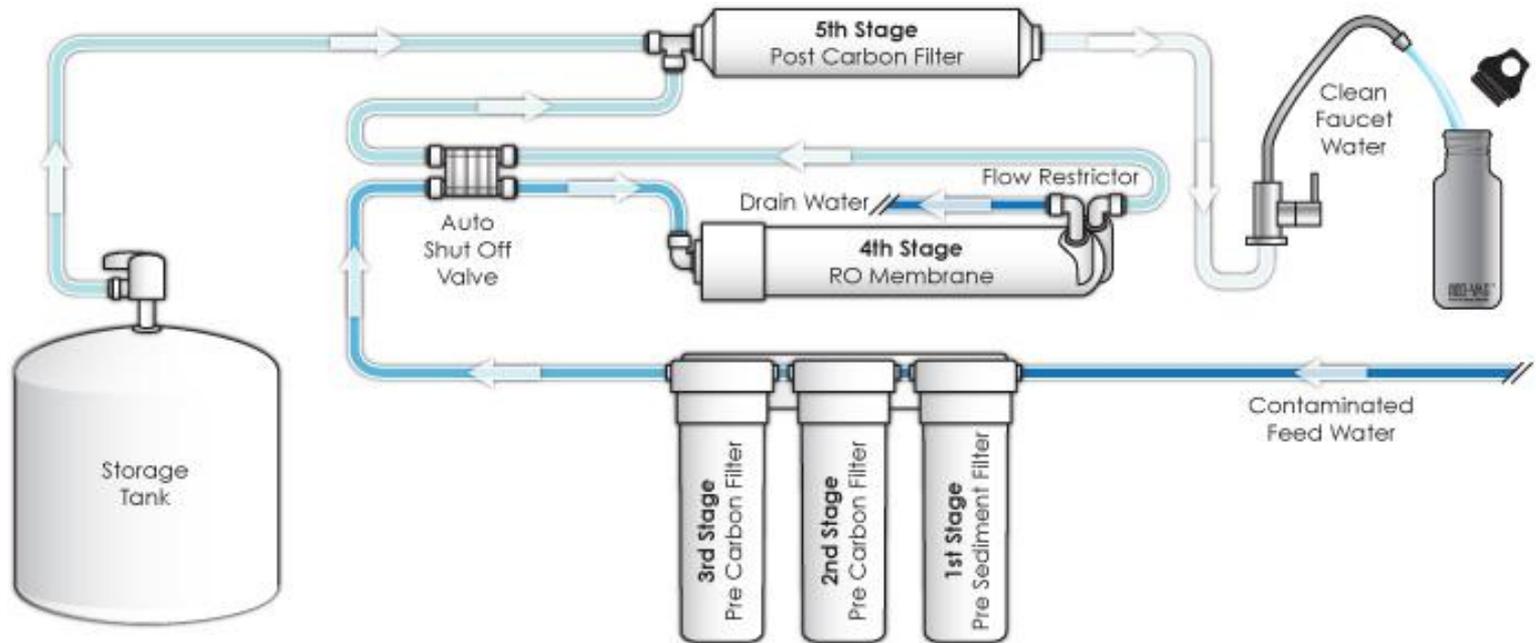


Specifications :	Round Type
Capacity	7 - 10 Persons
Height	1.485 m
Diameter	1.10 m
Volume	1.0 m <sup>3</sup>
Weight	80 kg.
Material	Recycled PE
Color	Black

# CATCH BASIN & AREA DRAIN



# WATER FILTER SYSTEM



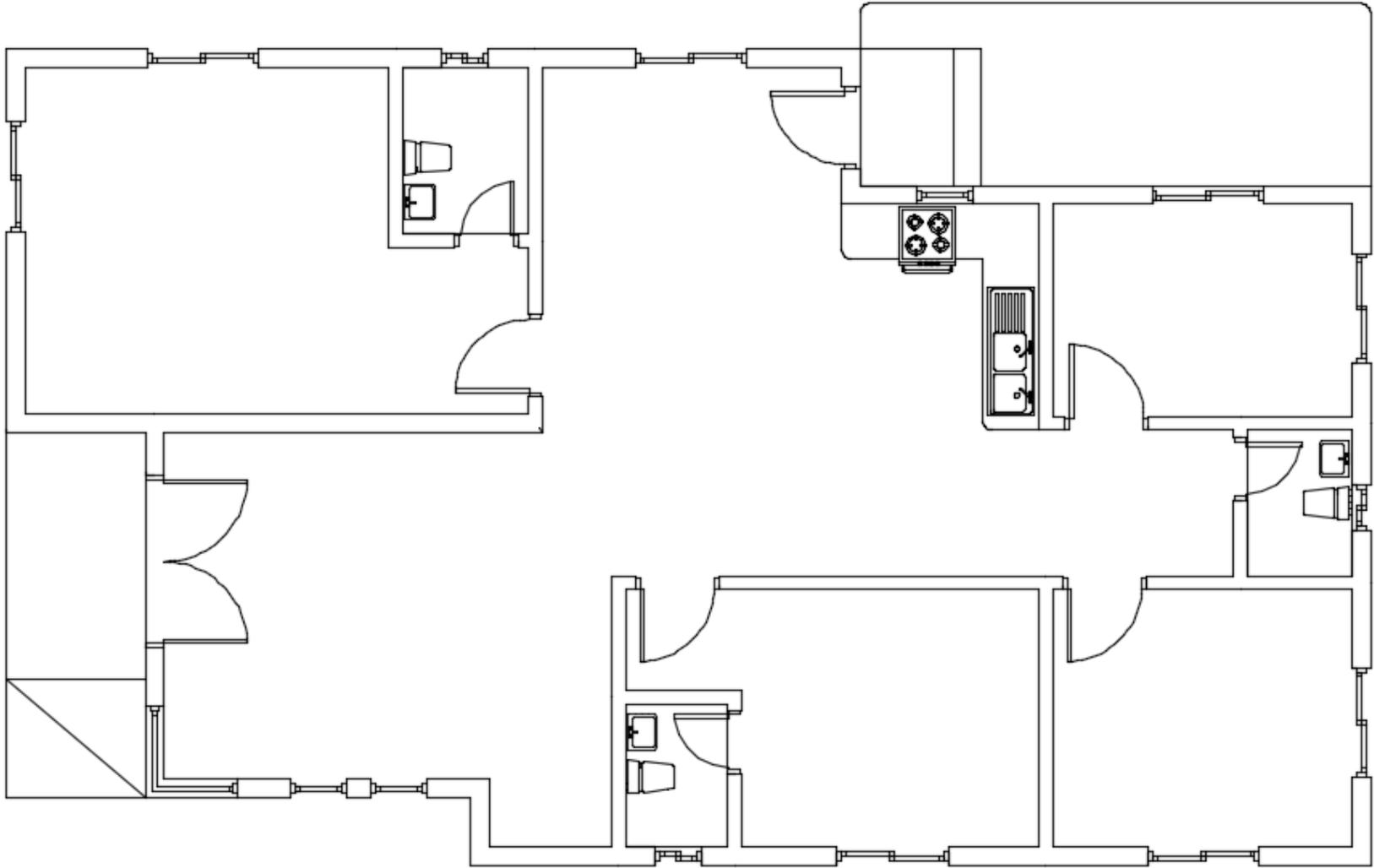
# DRAWING WATER DISTRIBUTION LAYOUT

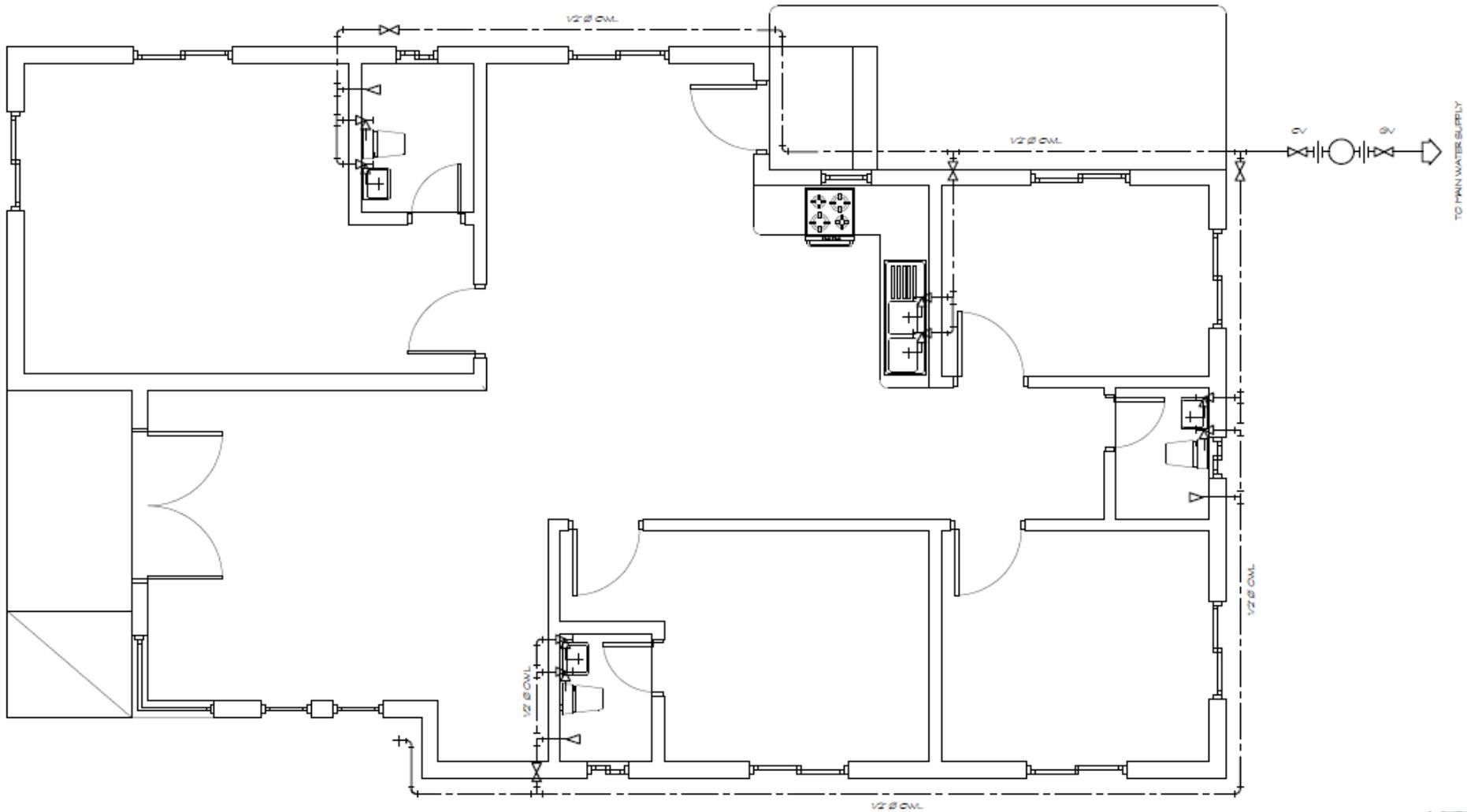
# DRAWING STORM & SANITARY LAYOUT

<b>NAME</b>	<b>YR&amp;SEC</b>			<b>DATE</b>
Indicators	Excellent (5 pts.)	Good (3-4 pts.)	Poor (1-2 pts.)	Score
Diagrammatic symbols are properly applied.				
Well planned water distribution layout and/or sanitary layout.				
The layout is legible and neat.				
Submitted on time.				
<b>Total (20 points max.)</b>				

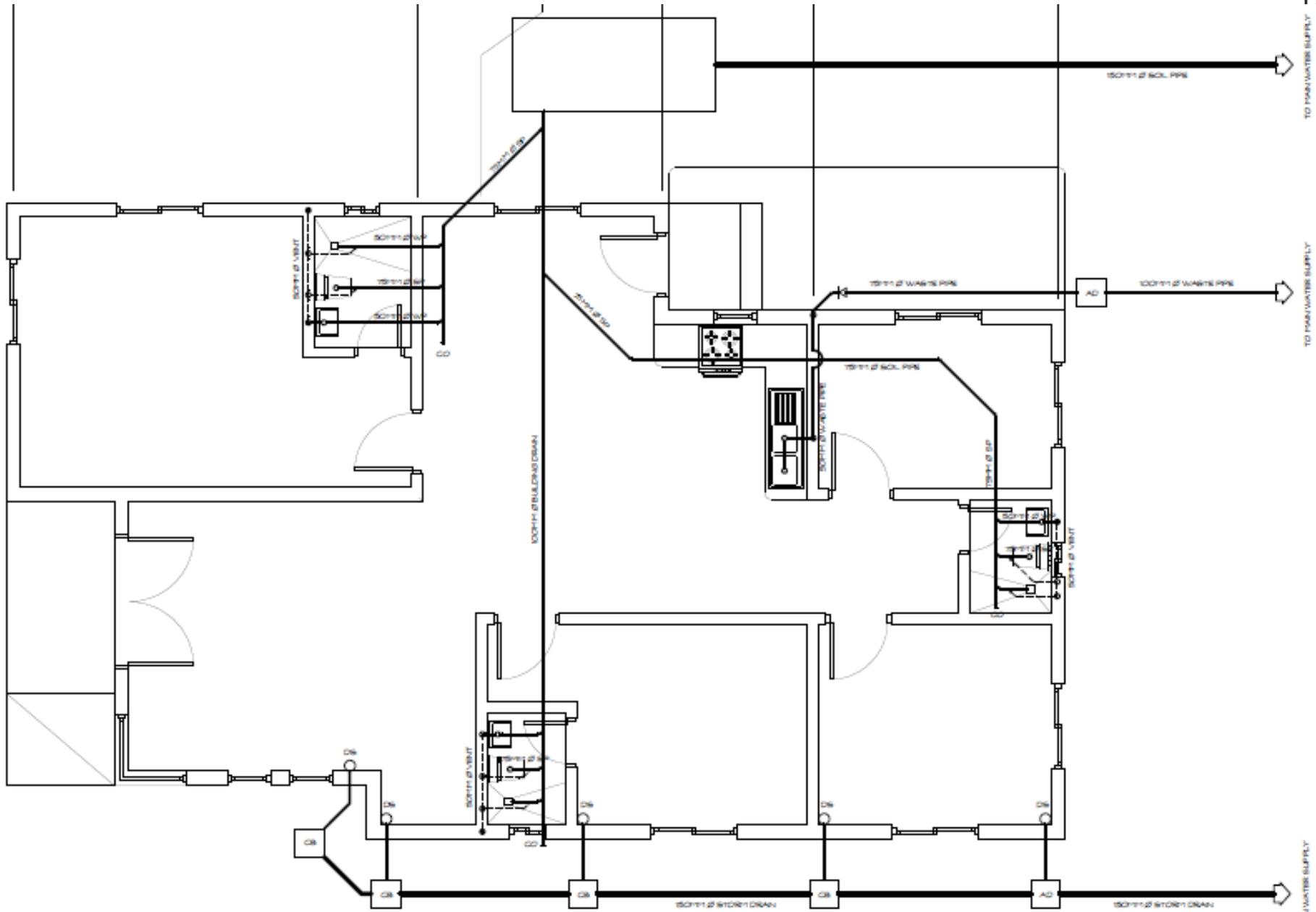
Drawing Water Distribution Layout

Drawing Storm and Sanitary Layout





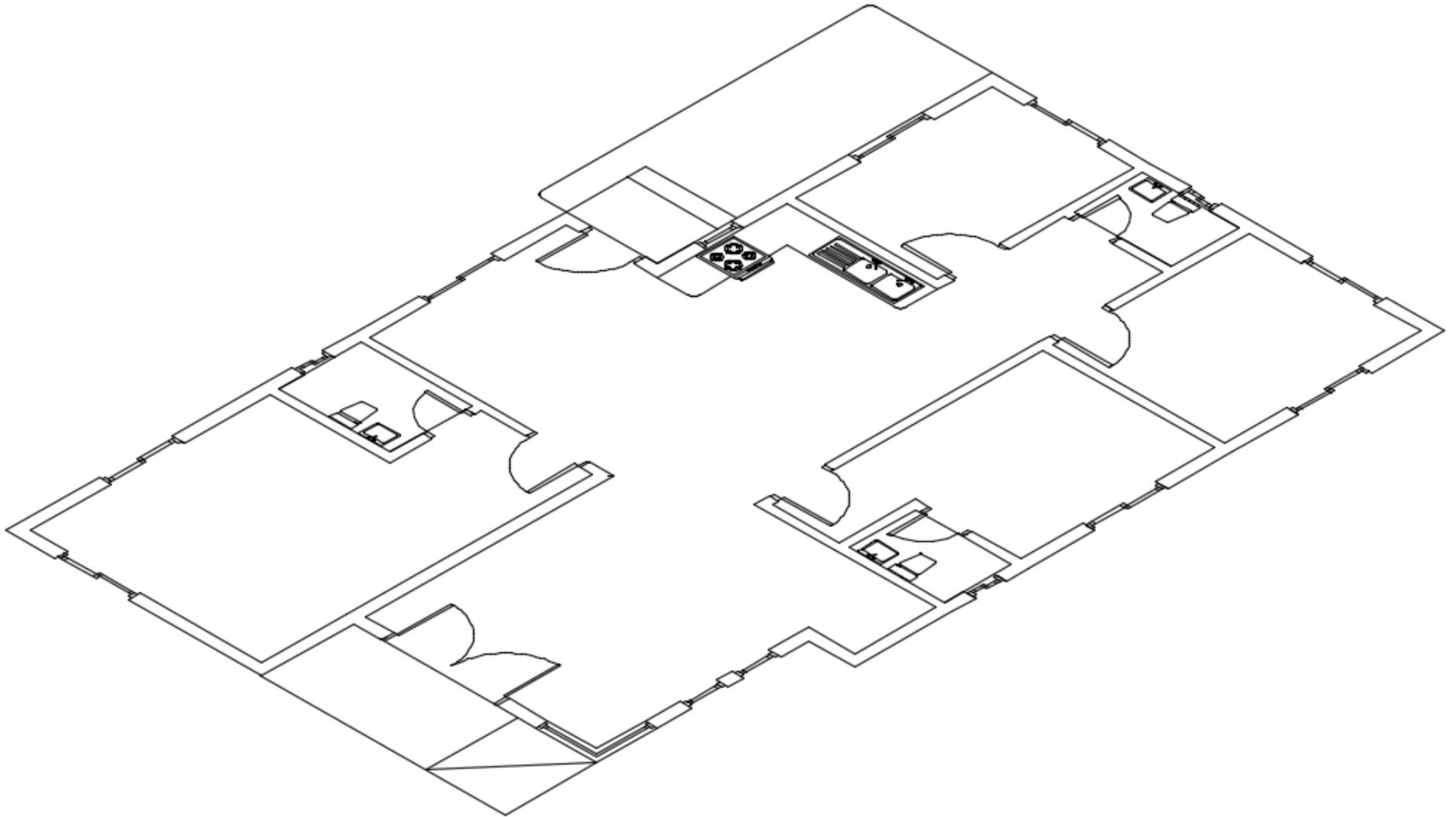
Prepared by: SUNNY B. OJEDA, RMP  
1/6/2018

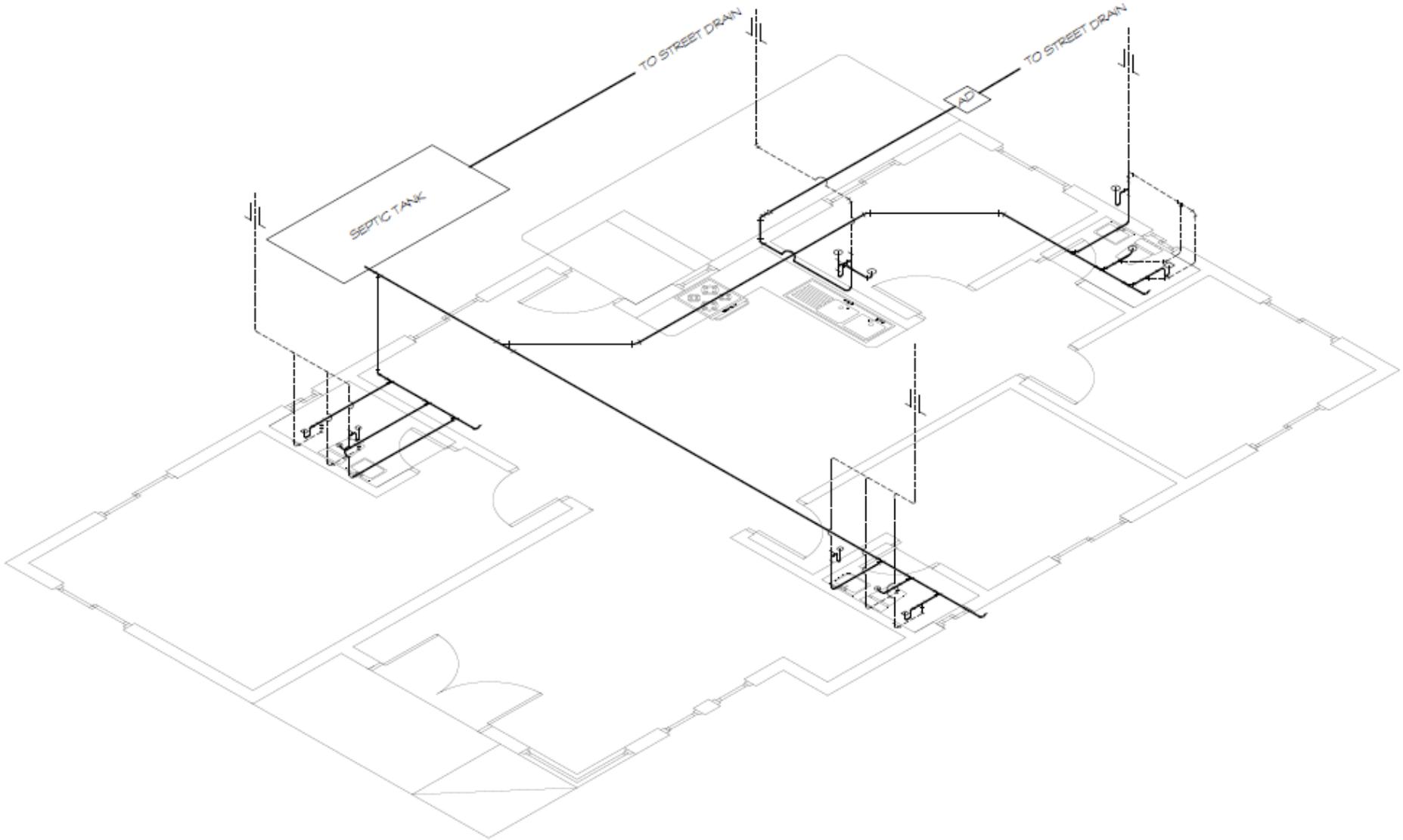


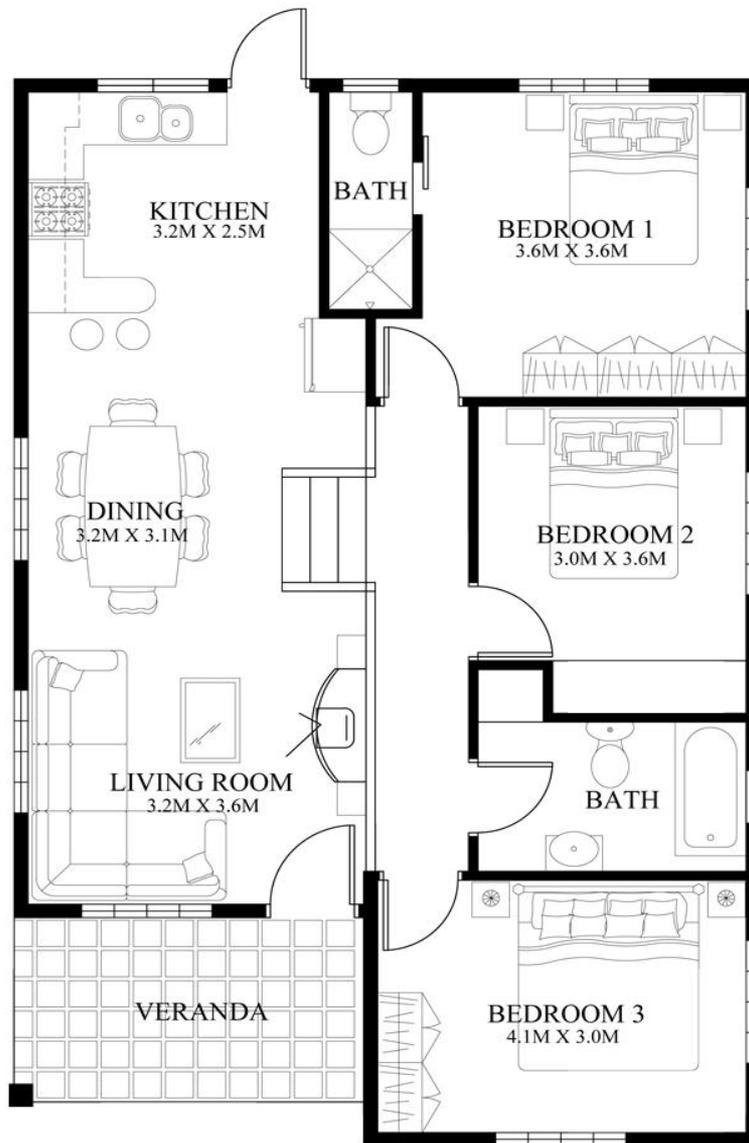
Prepared by: SUNNY B. OJEDA, RMP

1/6/2018

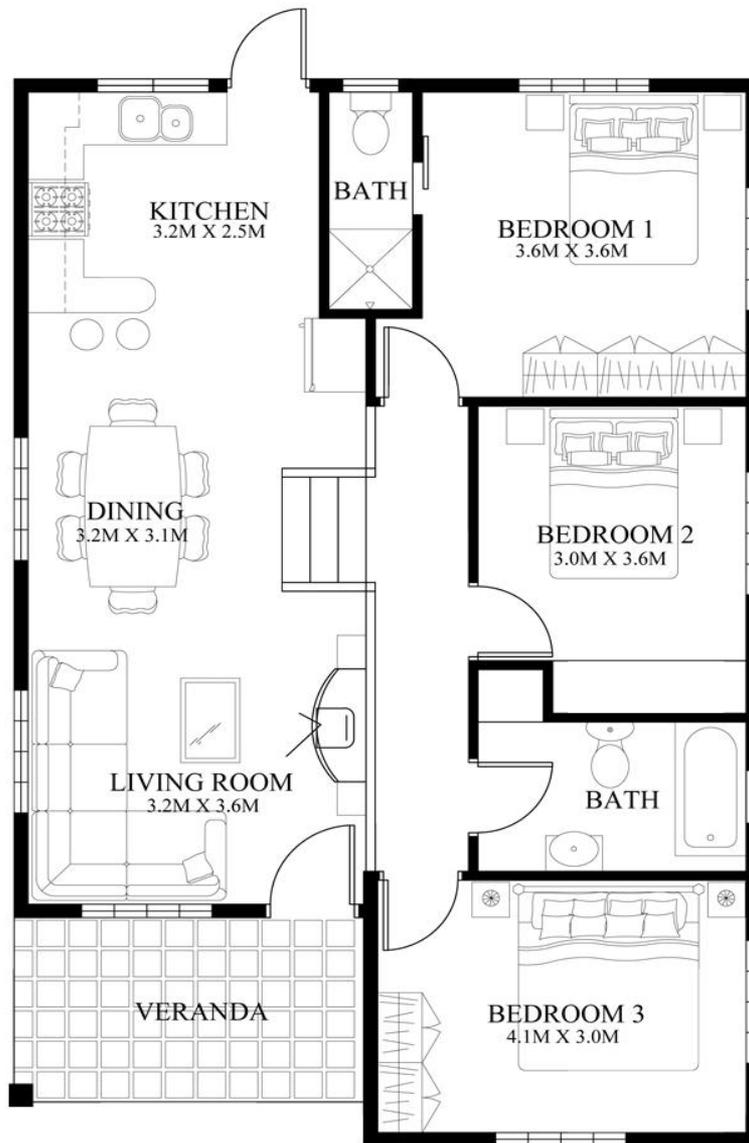
# PARTIAL ISOMETRIC LAYOUT







**DRAW THE WATER DISTRIBUTION LAYOUT**



**DRAW THE STORM & SANITARY LAYOUT**

# JOINING & FUSING

- Pipe Threading and Joining actual demo
- PPR Fusing actual demo
- HDPE Joining actual demo
- CIP Caulking 1
- Huge Pipe PE Joining
- CIP Caulking 2
- Cu Joining
- PVC Joining see next slide

## ❑ PVC Joining

- Prepare the tools and materials needed.
- Measure and cut the PVC pipe.

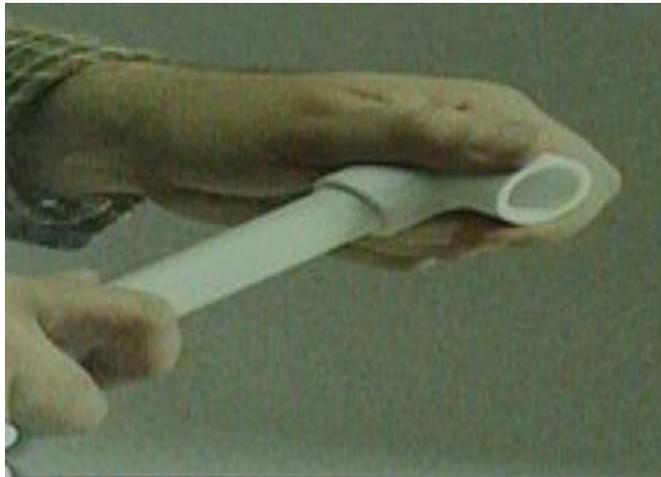


## □ PVC Joining

- Remove burrs from the cut end.



- Test the fitting. Push it at least one-third of the way.



## ❑ PVC Joining

- Mark for alignment on both PVC pipe and fitting.



- Apply solvent cement on both PVC pipe and fittings.



## ❑ PVC Joining

- Insert the PVC pipe to the fitting. Push the two pieces together, ensuring the pipe seats fully into the socket or fitting. Twist a quarter-turn as you push to help spread the solvent cement evenly.
- Complete the twist until your alignment marks come together. Hold the pipe and fitting together for about 20 seconds while they fuse a single piece.

