



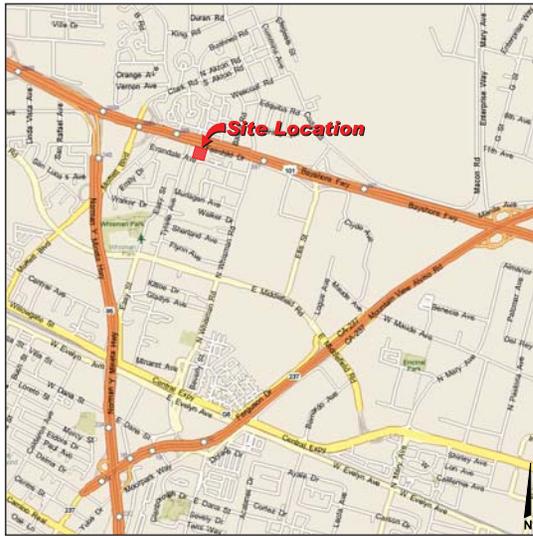
Soil VOC Vapor Mitigation System Plans & Specifications for

Viewpoint II

Phase II

Mountain View, California – Santa Clara County

Project Site



Not to Scale

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Sheet D3	Vapor Barrier and Vent Piping Details

Design Team

Owner/Developer:	Dividend Homes 385 Woodview Avenue, Suite 100 Morgan Hill, California 95037 713.580.1214
VOC Vapor Mitigation System Engineer:	GeoKinetics 77 Bunsen Irvine, California 92618 949.502.5353, Fax 949.502.5354
Architect:	Dahlin Group 5865 Owens Drive Pleasanton, California 94588 949.851.2133
Structural Engineer:	Max Cheng & Associates, Inc. 286 Digital Drive Morgan Hill, California 95037 408.782.6898
Mechanical Engineer:	Duct Testers 336 Main Street Ripon, California 95366 209.579.5000
Civil Engineer:	BKF Engineers 1650 Technology Drive, Suite 650 San Jose, California 95110 408.467.9100

Notice for Contractor

All contractors and subcontractors performing work shown on or related to these plans shall conduct their operations so that all employees are provided a safe place to work and the public is protected. All contractors and subcontractors shall comply with the "Occupational Safety and Health Regulations" of the U.S. Department of Labor and with the state of California Department of Industrial Relations' "Construction Safety Orders".

The Developer and the Project Soil Vapor Engineer shall not be responsible in any way for contractors' and subcontractors compliance with the "Occupational Safety and Health Regulations" of the U.S. Department of Labor or with the State of California Department of Industrial Relations' "Construction Safety Orders".

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, indemnify and hold the owner and the Engineer 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 the Engineer.

Original Scale in Inches
for Reduced Plans 0 1 2 3

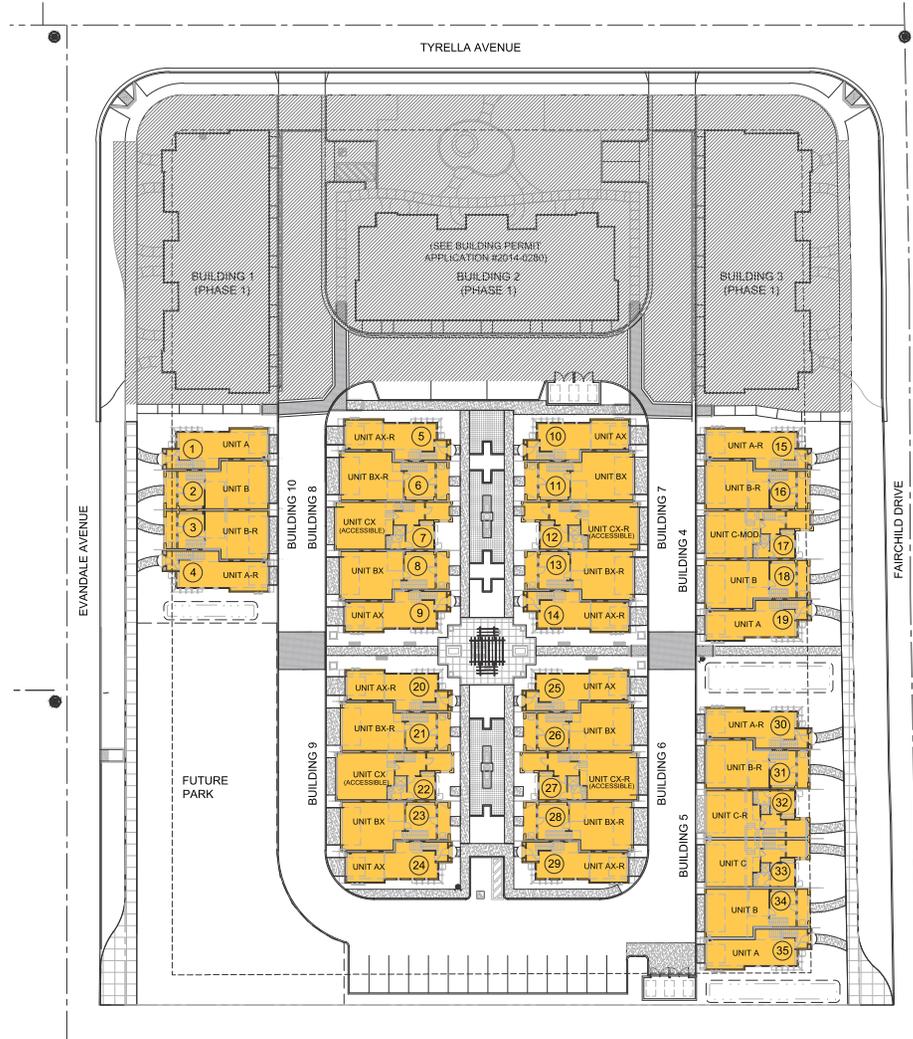
Date	By	Rev.	Description
Revisions			



Dividend Homes - Viewpoint II - Phase II - Mountain View, California

Title Sheet

Sheet 1



Legend

Building Area/Limits Where VOC Vapor Mitigation Measures are to be Installed (This Submittal Only)

Original Scale in Inches for Reduced Plans 0 1 2 3

Date	By	Rev.	Description

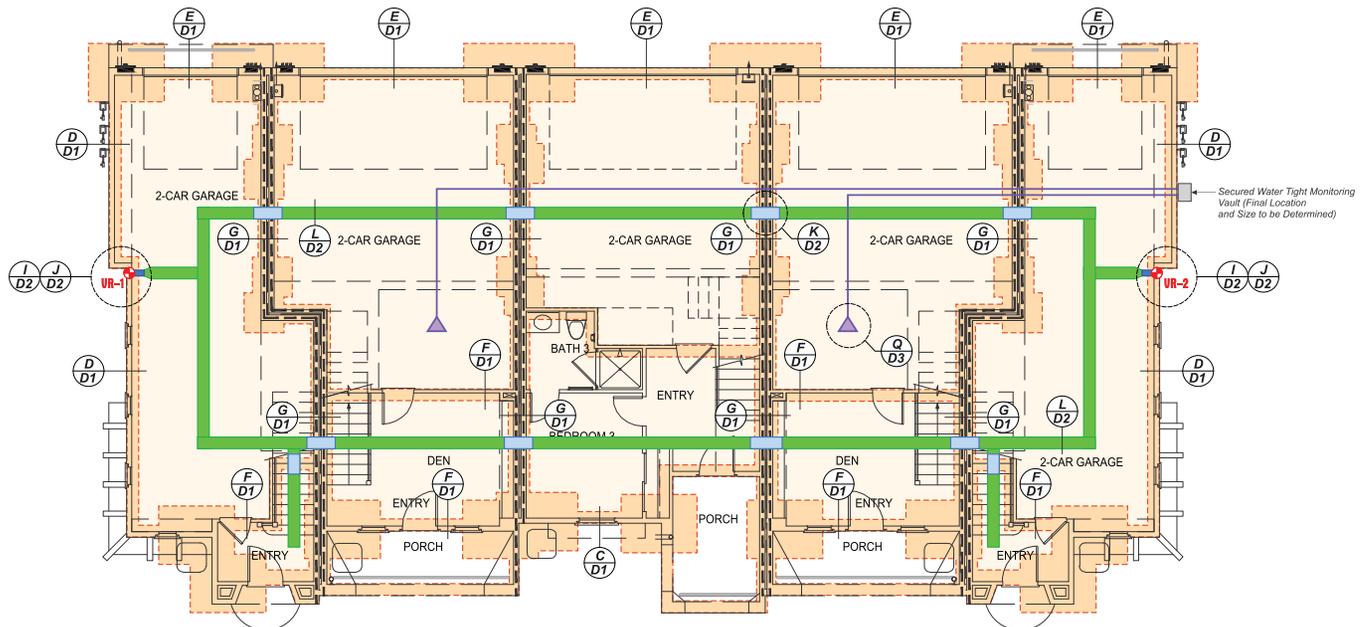
GeoKinetics
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Tel 949.502.2353
Fax 949.502.5354

Dividend Homes - Viewpoint II - Phase II - Mountain View, California

Site Plan

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Building 4 (5-Plex) - First Floor Plan

(3-Story Building)

Legend

- Limits of Soil VOC Vapor Barrier
- Foundation Footing
- 12" Wide Low Profile Vapor Vent Piping
- Vent Riser with Transition Piping
- Vent Riser Extending Up to Roof Level
- Sub-Slab Vapor Sampling Probe Below Vapor Barrier
(See Detail Q, Sheet D3)

Note: All Vent Piping and Riser Locations Should Be Coordinated With Architectural, Structural and Plumbing Plans Prior to Commencement of Work.

Final Vent Stub-Up Locations Should be Coordinated with Site Superintendent for Position Within Wall Prior to Installation of Slab.



Original Scale in Inches
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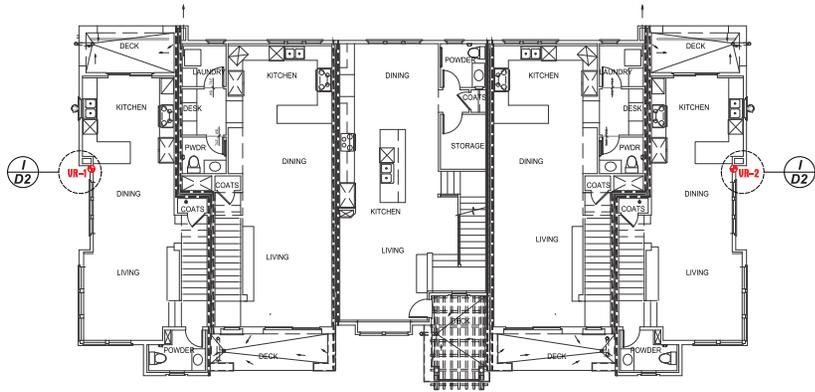
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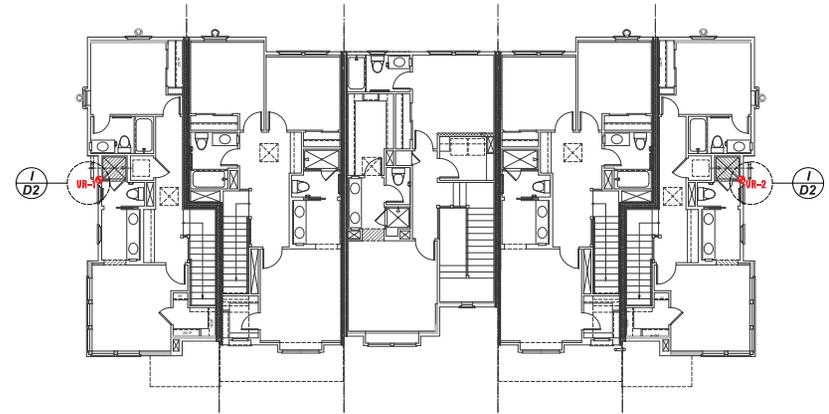
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Building 4 (5-Plex) First Floor Plan

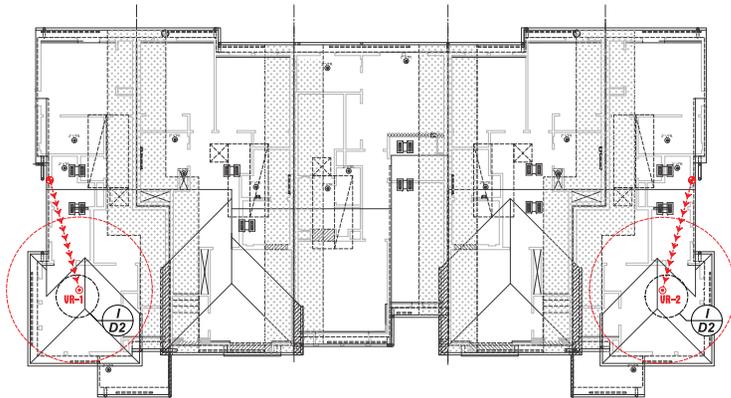
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Building 4 (5-Plex) - Second Floor Plan (3-Story Building)



Building 4 (5-Plex) - Third Floor Plan (3-Story Building)



Building 4 (5-Plex) - Roof Plan (3-Story Building)

Legend

- Vent Riser Extending Up to Roof Level
- Vent Riser Extending Above Roof Level
- Vent Riser Pipe Mounted Within Roof/Ceiling (Min. 2% Slope Upwards Towards Outlet)
- 10' 10' Radius Clear From Any Roof Air Intakes

Note: All Vent Piping and Riser Locations Should Be Coordinated With Architectural, Structural and Plumbing Plans Prior to Commencement of Work.

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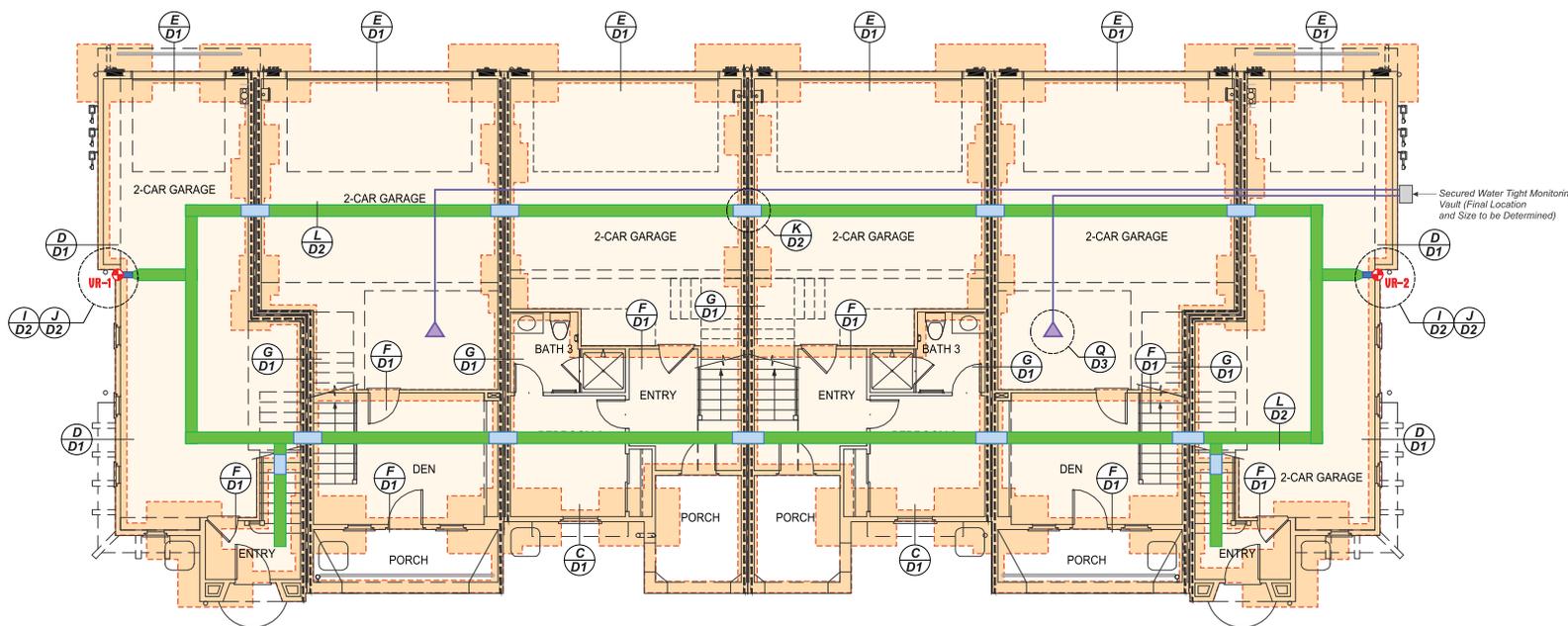
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Building 4 (5-Plex)
Second Floor, Third Floor, and Roof Plan

Sheet 5

April 7, 2016



Secured Water Tight Monitoring Vault (Final Location and Size to be Determined)

Building 5 (6-Plex) - First Floor Plan

(3-Story Building)

- Legend**
- Limits of Soil VOC Vapor Barrier
 - Foundation Footing
 - 12" Wide Low Profile Vapor Vent Piping
 - Vent Riser with Transition Piping
 - Vent Riser Extending Up to Roof Level
 - Sub-Slab Vapor Sampling Probe Below Vapor Barrier (See Detail Q, Sheet D3)

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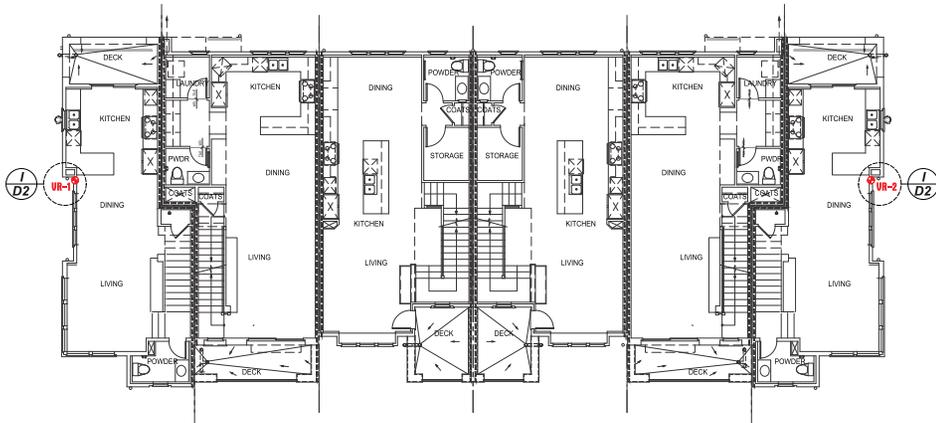
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Building 5 (6-Plex) First Floor Plan

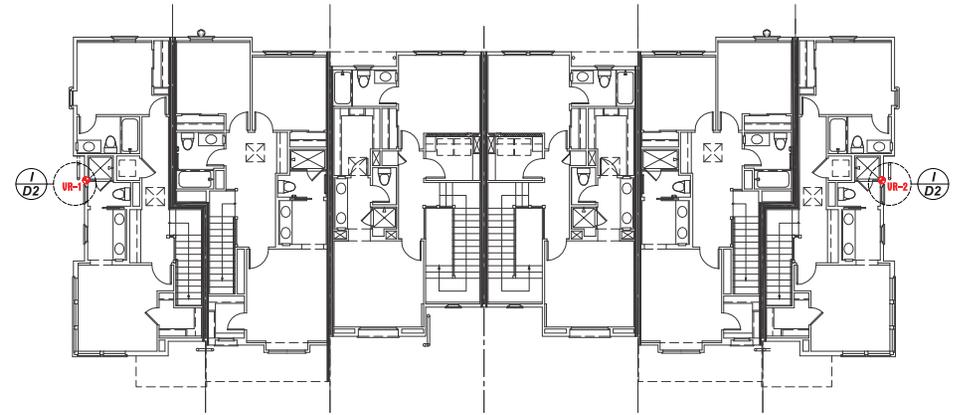
Sheet 6

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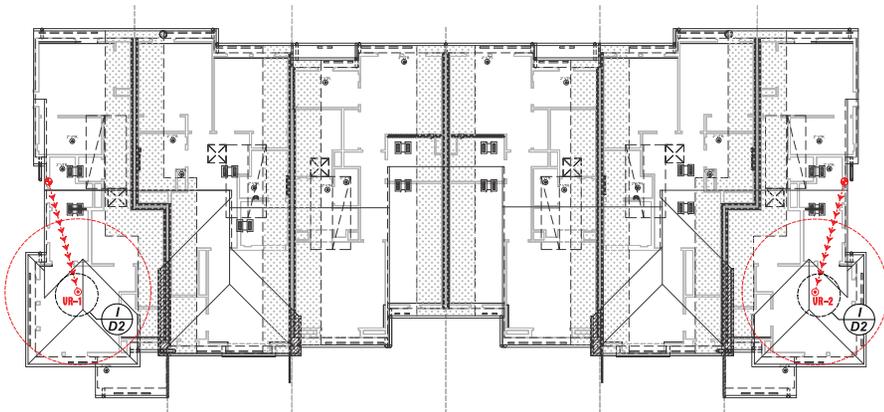
April 7, 2016



Building 5 (6-Plex) - Second Floor Plan (3-Story Building)



Building 5 (6-Plex) - Third Floor Plan (3-Story Building)



Building 5 (6-Plex) - Roof Plan (3-Story Building)

Legend

- Vent Riser Extending Up to Roof Level
- Vent Riser Extending Above Roof Level
- Vent Riser Pipe Mounted Within Roof/Ceiling (Min. 2% Slope Upwards Towards Outlet)
- 10' 10' Radius Clear From Any Roof Air Intakes

Note: All Vent Piping and Riser Locations Should Be Coordinated With Architectural, Structural and Plumbing Plans Prior to Commencement of Work.

Final Vent Stub-Up Locations Should be Coordinated with Site Superintendent for Position Within Wall Prior to Installation of Slab.

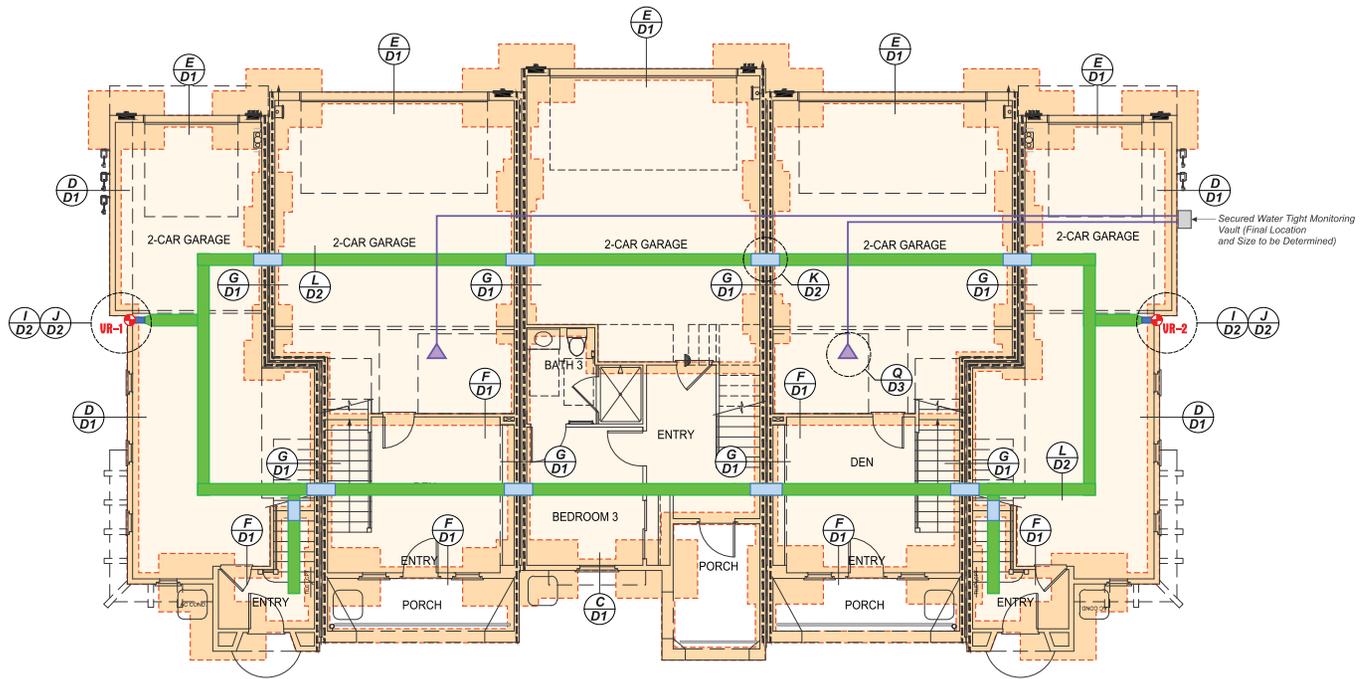


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Revisions			

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Dividend Homes - Viewpoint II - Phase II - Mountain View, California

**Building 5 (6-Plex)
Second Floor, Third Floor, and Roof Plan**



Building 6, 7, 8, & 9 (5-Plex Extended) - First Floor Plan

(3-Story Building)

Legend

- Limits of Soil VOC Vapor Barrier
- Foundation Footing
- 12" Wide Low Profile Vapor Vent Piping
- Vent Riser with Transition Piping
- Vent Riser Extending Up to Roof Level
- Sub-Slab Vapor Sampling Probe Below Vapor Barrier
(See Detail Q, Sheet D3)

Note: All Vent Piping and Riser Locations Should Be Coordinated With Architectural, Structural and Plumbing Plans Prior to Commencement of Work.

Final Vent Stub-Up Locations Should be Coordinated with Site Superintendent for Position Within Wall Prior to Installation of Slab.



Original Scale in Inches
for Reduced Plans

0	1	2	3
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Date	By	Rev.	Description
Revisions			

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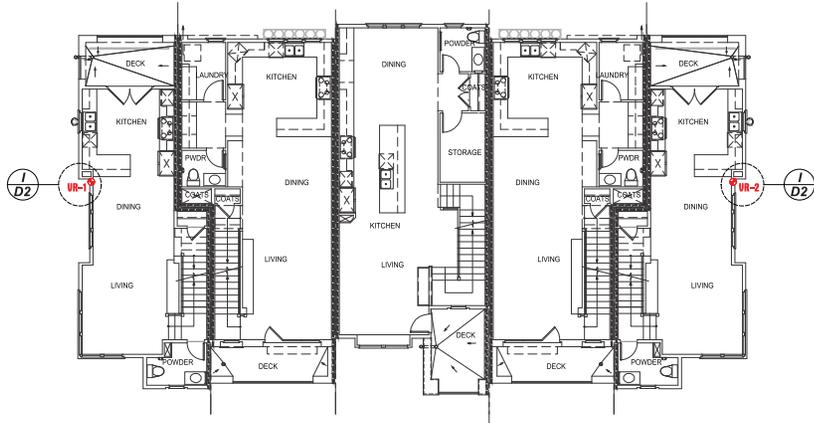
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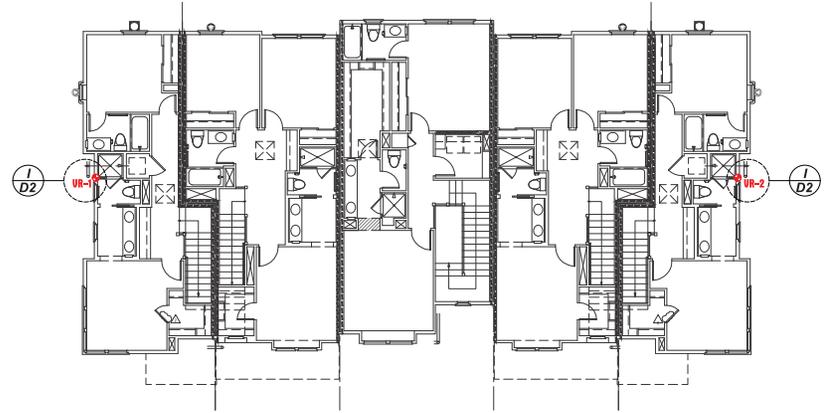
Building 6, 7, 8, & 9 (5-Plex Extended) First Floor Plan

Sheet 8

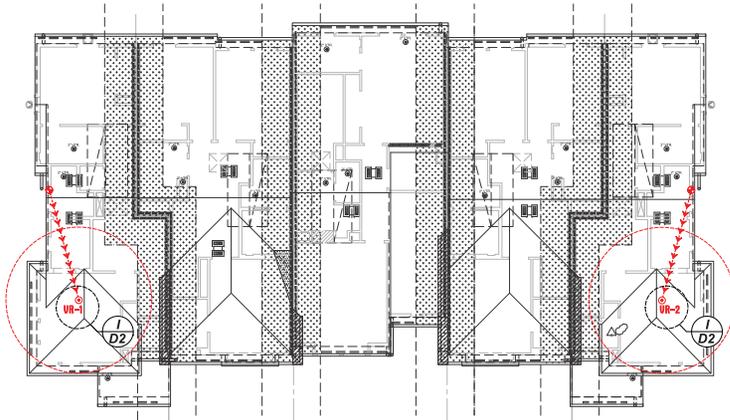
April 7, 2016



Building 6, 7, 8, & 9 - Second Floor Plan (3-Story Building)



Building 6, 7, 8, & 9 - Third Floor Plan (3-Story Building)



Building 6, 7, 8, & 9 - Roof Plan (3-Story Building)

Legend

- Vent Riser Extending Up to Roof Level
- Vent Riser Extending Above Roof Level
- Vent Riser Pipe Mounted Within Roof/Ceiling (Min. 2% Slope Upwards Towards Outlet)
- 10' 10' Radius Clear From Any Roof Air Intakes

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Final Vent Stub-Up Locations Should be Coordinated with Site Superintendent for Position Within Wall Prior to Installation of Slab.



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Revisions			

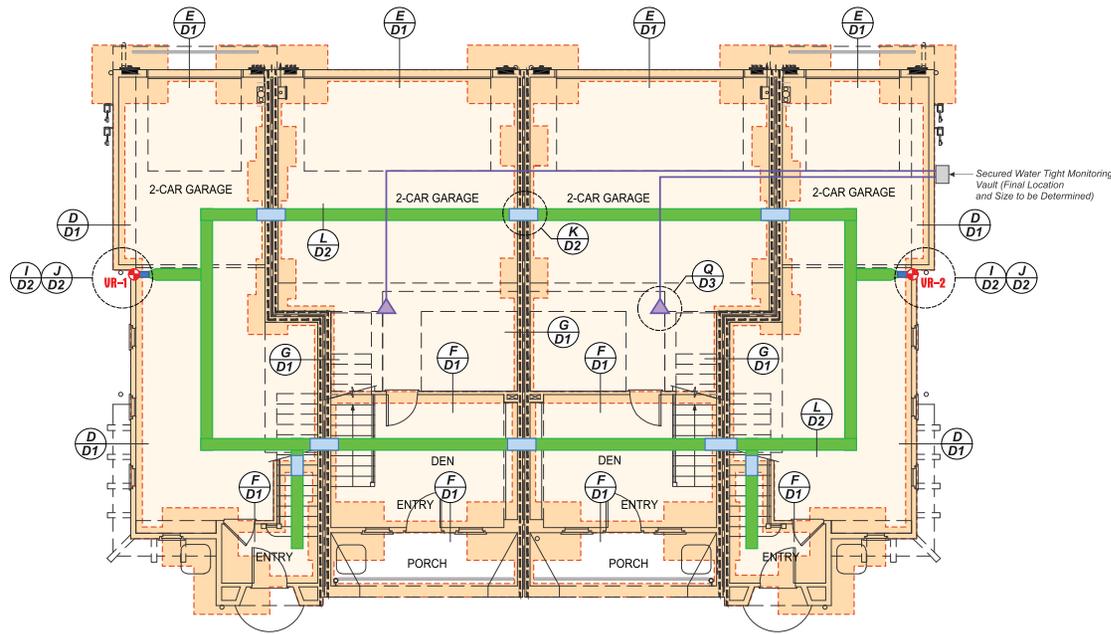


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**Building 6, 7, 8, & 9 (5-Plex Extended)
Second Floor, Third Floor, and Roof Plan**

Sheet 9



Building 10 (4-Plex) - First Floor Plan

(3-Story Building)

Legend

- Limits of Soil VOC Vapor Barrier
- Foundation Footing
- 12" Wide Low Profile Vapor Vent Piping
- Vent Riser with Transition Piping
- Vent Riser Extending Up to Roof Level
- Sub-Slab Vapor Sampling Probe Below Vapor Barrier (See Detail Q, Sheet D3)

Note: All Vent Piping and Riser Locations Should Be Coordinated With Architectural, Structural and Plumbing Plans Prior to Commencement of Work.

Final Vent Stub-Up Locations Should be Coordinated with Site Superintendent for Position Within Wall Prior to Installation of Slab.



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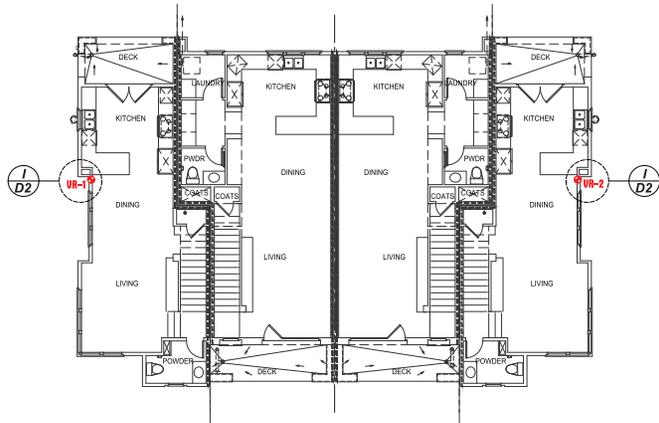
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Building 10 (4-Plex) First Floor Plan

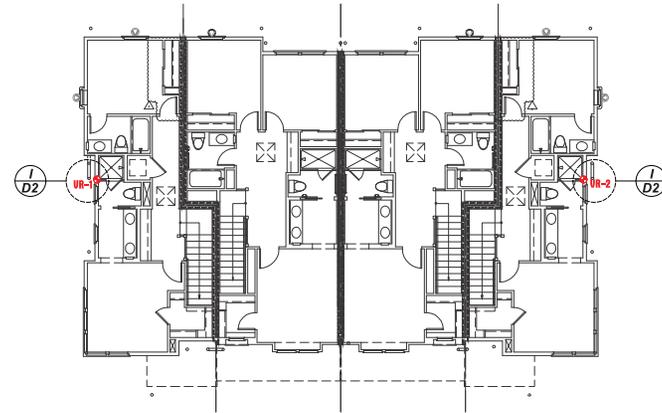
Sheet 10

April 7, 2016

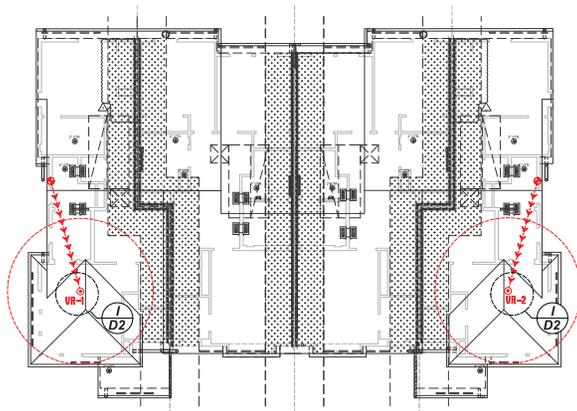
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Building 10 (4-Plex) - Second Floor Plan (3-Story Building)



Building 10 (4-Plex) - Third Floor Plan (3-Story Building)



Building 10 (4-Plex) - Roof Plan (3-Story Building)

Legend

- Vent Riser Extending Up to Roof Level
- Vent Riser Extending Above Roof Level
- Vent Riser Pipe Mounted Within Roof/Ceiling (Min. 2% Slope Upwards Towards Outlet)
- 10' Radius Clear From Any Roof Air Intakes

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Final Vent Stub-Up Locations Should be Coordinated with Site Superintendent for Position Within Wall Prior to Installation of Slab.



Date	By	Rev.	Description

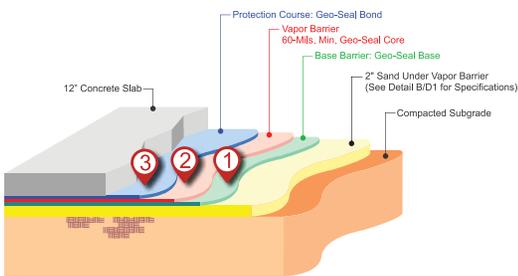
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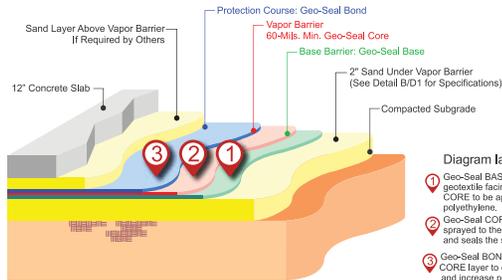
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**Building 10 (4-Plex)
Second Floor, Third Floor, and Roof Plan**

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Geo-Seal Vapor Barrier System

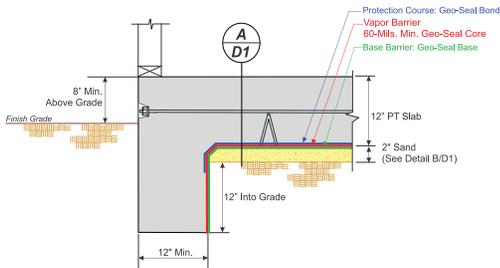


Additional Sand Layer Above Geo-Seal Vapor Barrier System
(Sand Above Vapor Barrier Not a Part of Vapor System, If required by Others)

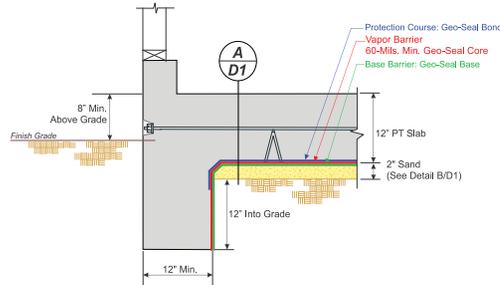
- Diagram Labels**
- ① Geo-Seal BASE - The BASE layer is rolled out geotextile facing down, which allows Geo-Seal CORE to be applied directly to the high density polyethylene.
 - ② Geo-Seal CORE - The CORE is applied at 60 mils. is sprayed to the base layer, seals around penetrations and seals the seams of the BASE layer.
 - ③ Geo-Seal BOND - Protection layer is placed over the CORE layer to enhance the curing of the membrane and increase puncture resistance.

SIEVE SIZE	PERCENTAGE PASSING SIEVE
3/8" (9,5 mm)	100
No. 4 (4,75 mm)	90-100
No. 8 (2,36 mm)	75-90
No. 16 (1,18 mm)	55-75
No. 30 (600 μm)	30-50
No. 50 (300 μm)	10-25
No. 100 (150 μm)	2-10
No. 200 (75 μm)	0-5

A Soil VOC Vapor Barrier Configuration
Not to Scale

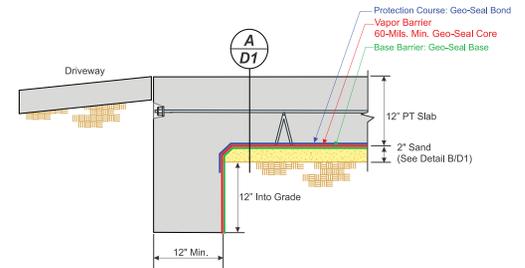


C Vapor Barrier at Exterior Wall
Not to Scale

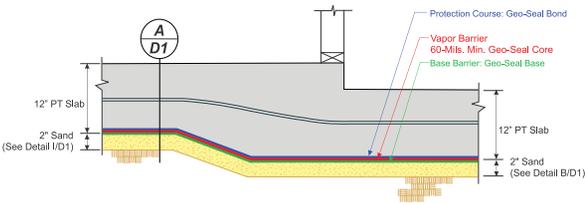


D Vapor Barrier at Exterior Wall with Stem Wall
Not to Scale

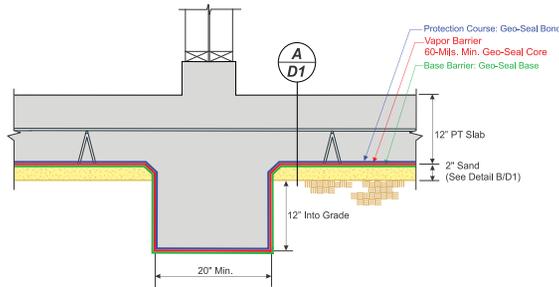
B Specifications for Sand
Not to Scale



E Vapor Barrier at Garage Door
Not to Scale



F Vapor Barrier at Stepped Slab
Not to Scale



G Vapor Barrier at Party Wall
Not to Scale

WARNING

THIS BUILDING IS PROTECTED WITH A VAPOR CONTROL BARRIER. ANY PROPOSED PENETRATION OR ALTERATION OF FLOOR SLAB REQUIRES NOTIFICATION OF THE BUILDING OFFICIAL AND INSPECTION BY A QUALIFIED ENGINEER

This Notification is to be Permanently Stamped or Etched in the Surface of the Garage Slab at the Time it is Poured or a Placard Permanently Adhered to Completed Slab.

Location of Notification to be determined by Project Superintendent and Building Official

All Letters 1/2" (Min.) in Height

1 Required Per Building

H Typical Vapor Barrier Identification
Not to Scale

Notes:

Field Situations Not Specially Detailed Shall be Handled Per the Intent of These Plans and Specifications With the Approval of the Soil Vapor Engineer, The Applicator/Contractor May Submit Shop Drawings for Alternative Methods.

See Structural Foundation Plans for Complete Depth and Details of Footings. Depths of Footings Shown are Generalized, Actual Footing Depths May Vary.

Original Scale in Inches for Reduced Plans 0 1 2 3

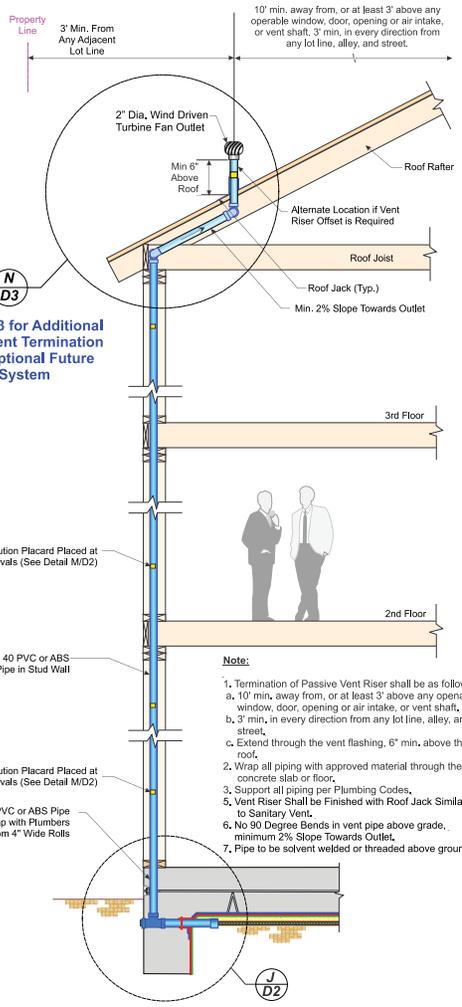
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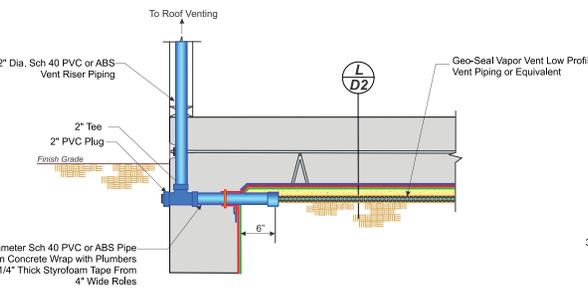
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Vapor Barrier and Vent Piping Details

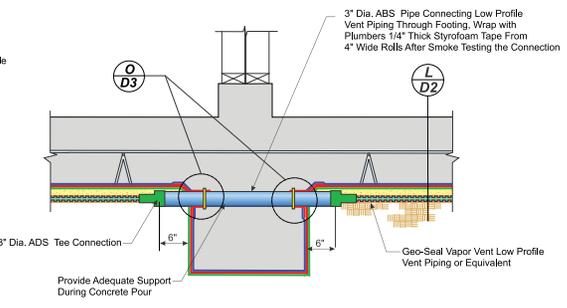


See Detail N/D3 for Additional VR-1 & VR-2 Vent Termination Details For Optional Future Active System

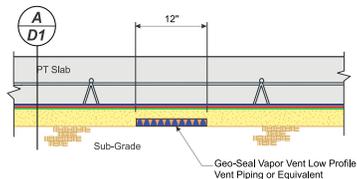
- Note:**
1. Termination of Passive Vent Riser shall be as follows a. 10' min. away from, or at least 3' above any operable window, door, opening or air intake, or vent shaft, b. 3' min. in every direction from any lot line, alley, and street, c. Extend through the vent flashing, 6" min. above the roof.
 2. Wrap all piping with approved material through the concrete slab or floor.
 3. Support all piping per Plumbing Codes.
 5. Vent Riser Shall be Finished with Roof Jack Similar to Sanitary Vent.
 6. No 90 Degree Bends in vent pipe above grade, minimum 2% Slope Towards Outlet.
 7. Pipe to be solvent welded or threaded above ground.



J Vent Pipe to Vent Riser Transition
Not to Scale



K Typical Vent Pipe Through Interior Footing
Not to Scale

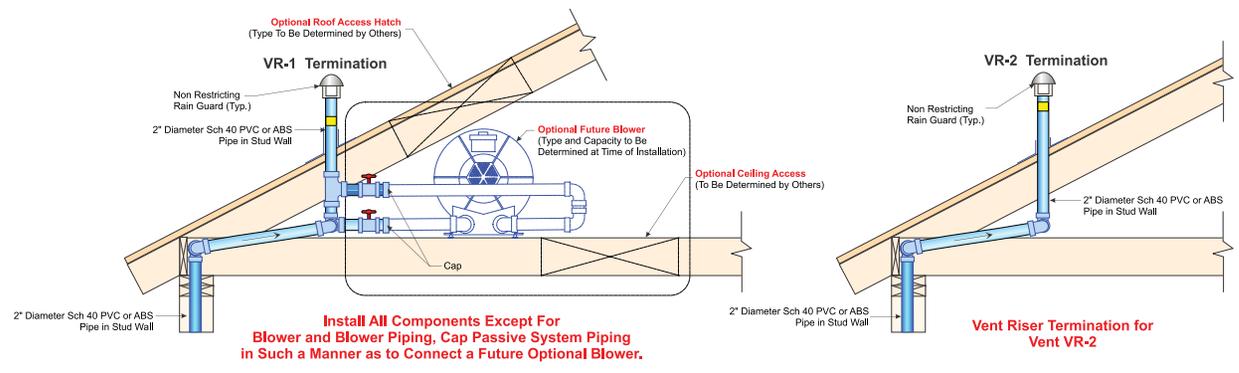


L Low Profile Sub-Slab Vent System
Not to Scale

Vapor
SUB-SLAB VENT PIPE
IF DAMAGED
IMMEDIATELY NOTIFY
BUILDING OWNER

3"x4" Wide
All Signs Plastic With Adhesive Backing,
Large Letters Min. 1/2" High
Red Letter on White or Yellow Background
3 Min. Required Per Interior Vent Riser
This Sign Shall be Posted On Each Vent Riser at Approximately 5-Foot Vertical Intervals (Max.) and at Roof Outlet

M Typical Placard at Vent Piping Outlet
Not to Scale



N Vent Piping Terminations for Future Active System at Vent Riser VR-1 and VR-2 (If Needed or Required)
Not to Scale

I Typical Vent Riser to Roof Outlet
Not to Scale

Notes:
Field Situations Not Specially Detailed Shall be Handled Per the Intent of These Plans and Specifications With the Approval of the Soil Vapor Engineer, The Applicator/Contractor May Submit Shop Drawings for Alternative Methods.

See Structural Foundation Plans for Complete Depth and Details of Footings. Depths of Footings Shown are Generalized, Actual Footing Depths May Vary.

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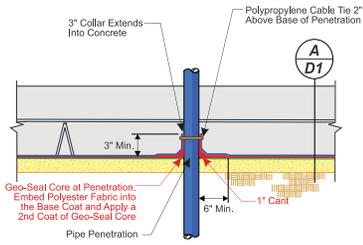
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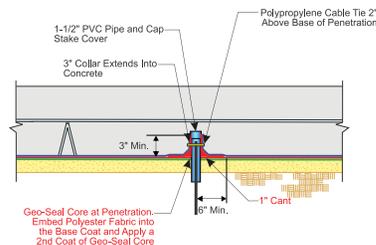
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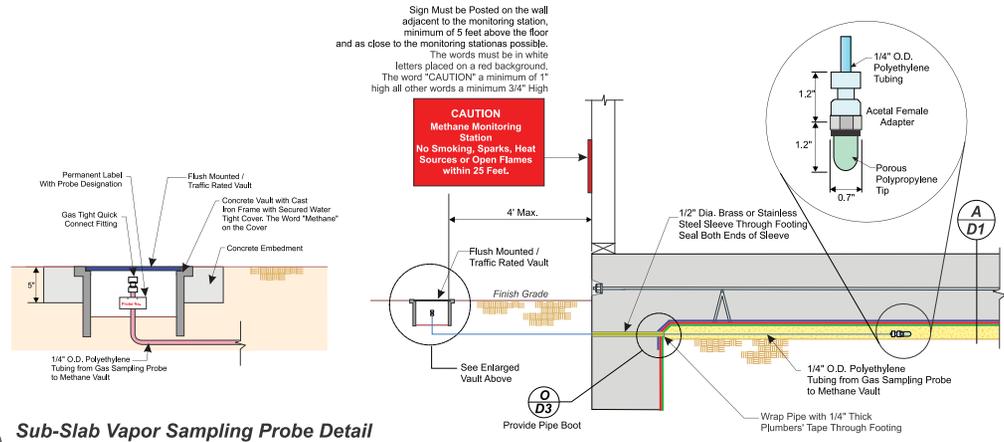
Vapor Barrier and Vent Piping Details



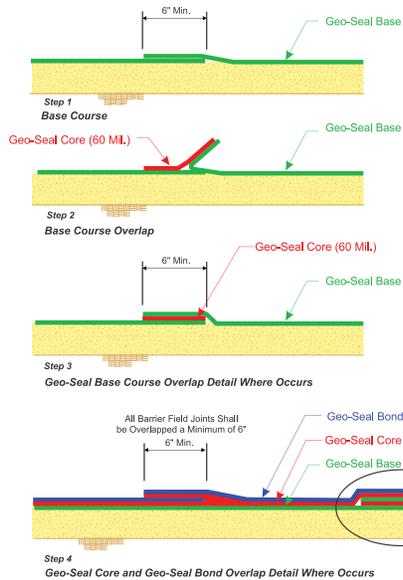
O Vapor Barrier Boot at Pipe Penetration
Not to Scale



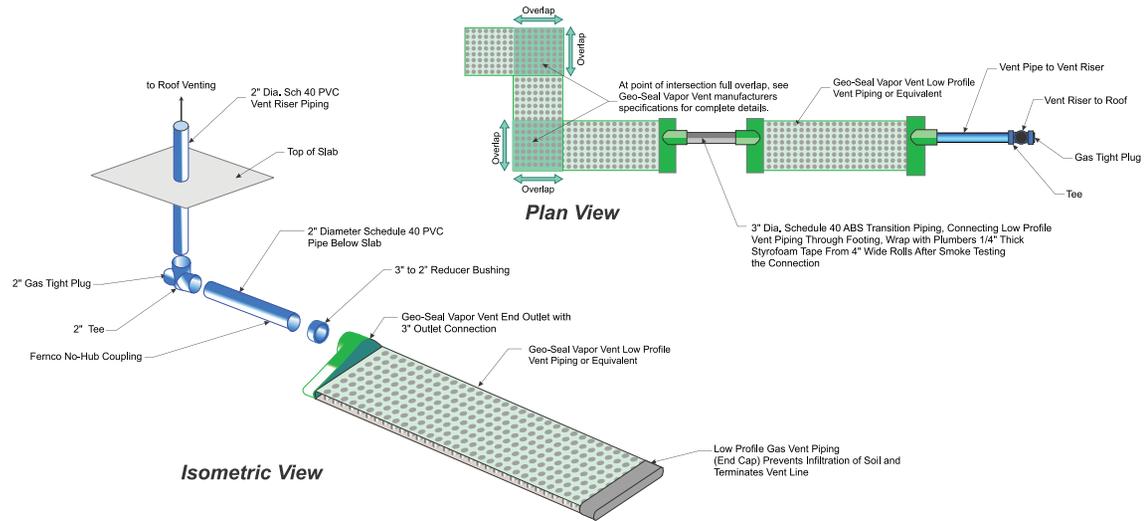
P Typical Plumbing Staking Detail
Not to Scale



Q Sub-Slab Vapor Sampling Probe Detail
Not to Scale



R Typical Membrane Overlap Detail for Geo-Seal
Not to Scale



S Typical Geo-Seal Vapor-Vent Profile Sub-Slab Vent System Components
Not to Scale

Notes:

Field Situations Not Specially Detailed Shall be Handled Per the Intent of These Plans and Specifications With the Approval of the Soil Vapor Engineer, The Applicator/Contractor May Submit Shop Drawings for Alternative Methods.

See Structural Foundation Plans for Complete Depth and Details of Footings. Depths of Footings Shown are Generalized, Actual Footing Depths May Vary.

Original Scale in Inches for Reduced Plans 0 1 2 3

Date	By	Rev.	Description

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Dividend Homes - Viewpoint II - Phase II - Mountain View, California

Vapor Barrier and Vent Piping Details

Sheet D3