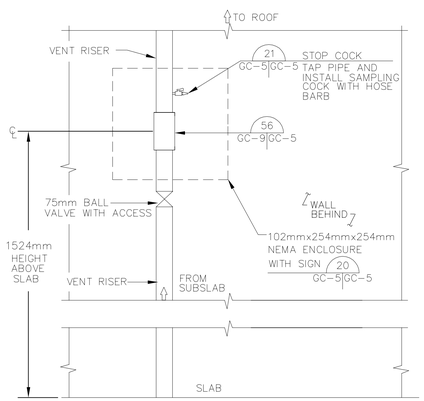
SUBSLAB VENTING DETAILS

REVISIONS				
SYM	DESCRIPTION	PREPARED BY	DATE	APPROVED

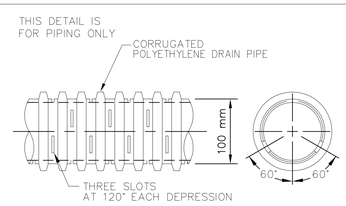


THIS DETAIL SHOWS ONLY PLUMBING NECESSARY FOR VENT RISER GAS DETECTOR. ELECTRONIC INSTALLATION IS SHOWN ON 56 GC-9|GC-5

[redacted] MEDICAL/DENTAL CLINIC

PLUMBING FOR I.R. GAS DETECTOR

NOT TO SCALE — 19 GC-8|GC-5

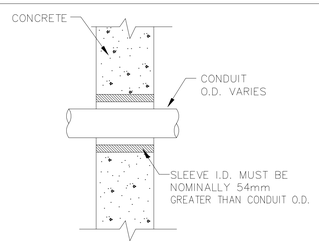


PREWRAPPED FILTER PIPE ("SOCK PIPE")

[redacted] MEDICAL/DENTAL CLINIC

VENT PIPE

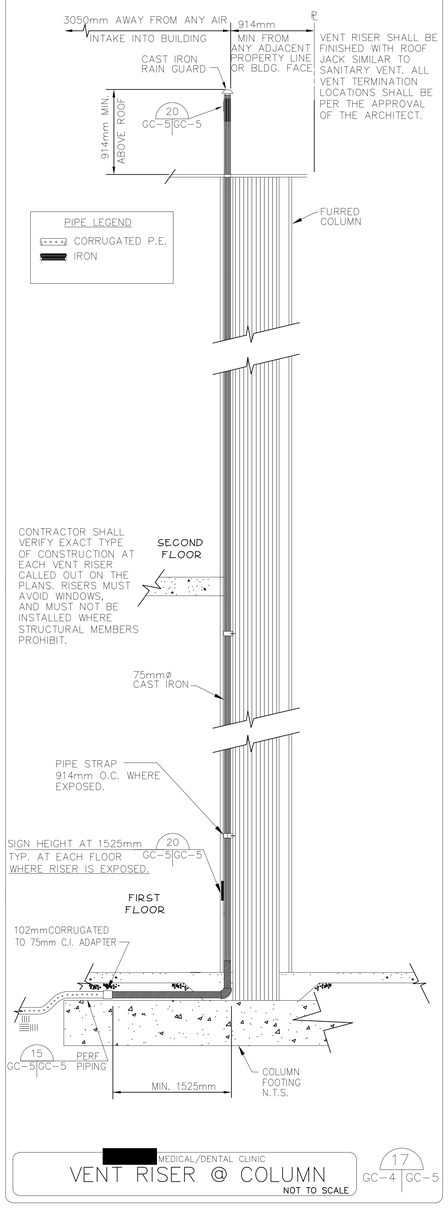
NOT TO SCALE — 15 GC-5|GC-5



[redacted] MEDICAL/DENTAL CLINIC

SLEEVE

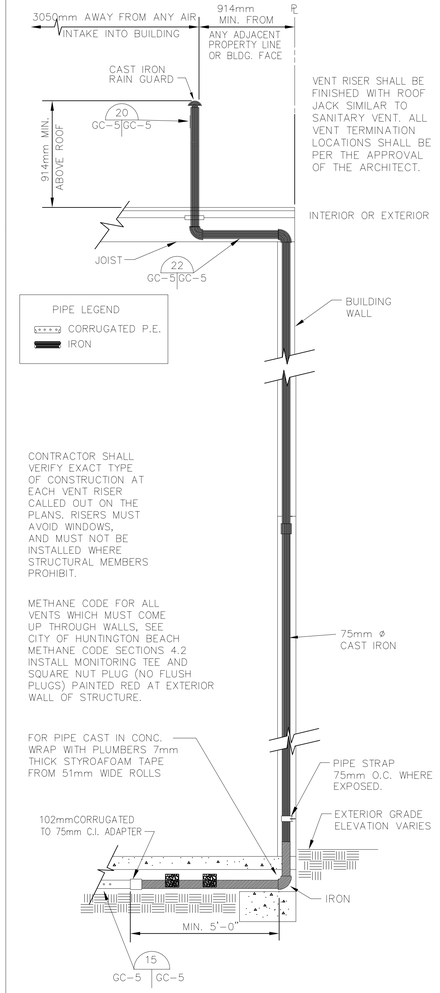
NOT TO SCALE — 16 GC-5|GC-5



[redacted] MEDICAL/DENTAL CLINIC

VENT RISER @ COLUMN

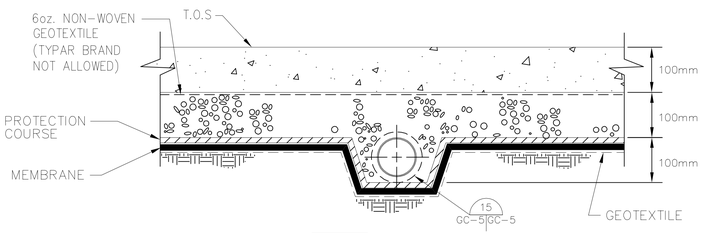
NOT TO SCALE — 17 GC-4|GC-5



[redacted] MEDICAL/DENTAL CLINIC

VENT RISER IN EXTERIOR WALL

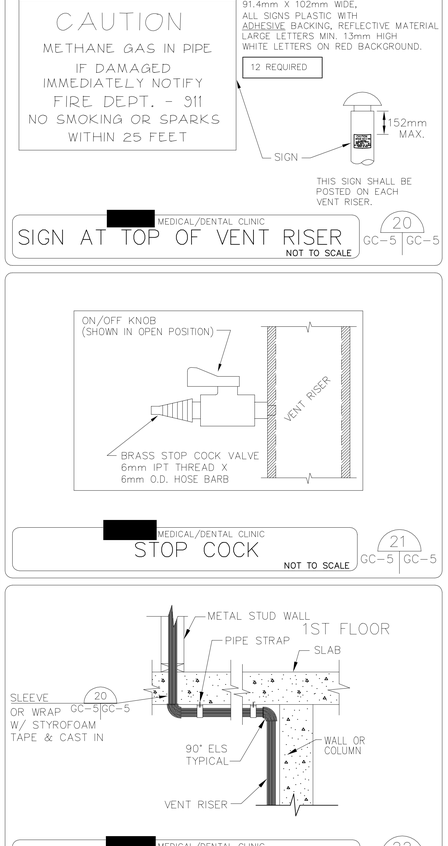
NOT TO SCALE — 14 GC-4|GC-8|GC-5



[redacted] MEDICAL/DENTAL CLINIC

VENT PIPE TRENCH

NOT TO SCALE — 18 GC-5|GC-5



[redacted] MEDICAL/DENTAL CLINIC

SIGN AT TOP OF VENT RISER

NOT TO SCALE — 20 GC-5|GC-5

[redacted] MEDICAL/DENTAL CLINIC

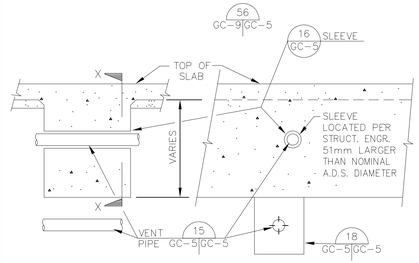
STOP COCK

NOT TO SCALE — 21 GC-5|GC-5

[redacted] MEDICAL/DENTAL CLINIC

PIPE INTO INTERIOR STUD WALL

NOT TO SCALE — 22 GC-5|GC-5



[redacted] MEDICAL/DENTAL CLINIC

VENT PIPE THRU FTG.

NOT TO SCALE — 23 GC-5|GC-5

IV. SUBSLAB PIPING SPECIFICATIONS

1. PIPING IS SPECIFIED ON THESE PLANS. WHERE CORRUGATED POLYETHYLENE PIPE IS USED ALL WORK SHALL COMPLY WITH THE CITY OF [redacted] GENERAL APPROVED RESEARCH REPORT AS WELL AS THE MANUFACTURER'S RECOMMENDATIONS.

2. WHERE PVC SCHEDULE 40 MATERIAL IS USED FOR SUBSLAB MATERIAL PIPING, ALL FITTINGS SHALL ALSO BE SCHEDULE 40 PVC ELBOWS, REDUCERS, CAPS; AND OTHER FITTINGS SHALL BE SLIP TYPE FOR A SOLVENT CEMENT APPLICATION. SOLVENT AND CEMENT SHALL BE HIGH STRENGTH, HEAVY DUTY, GRAY COLOR, HEAVY BODY, AND MEDIUM CURING SPEED. ALL PVC MATERIALS SHALL BE PER THE FOLLOWING STANDARDS:

D-256 IMPACT RESISTANCE OF PLASTICS

D-638 TENSILE PROPERTIES OF PLASTICS

D-648 DEFLECTION TEMPERATURE OF PLASTIC UNDER FLEXURAL LOAD

D-790 FLEXURAL PROPERTIES OF PLASTICS

D-1784 PVC AND CPVC COMPOUNDS

D-1785 PVC PIPE, SCHEDULES 40, 80, AND 120

D-2466 PVC PLASTIC PIPE FITTING, SCHEDULE 40

D-2467 PVC PIPE FITTING, SCHEDULE 80

D-2564 SOLVENT CEMENTS FOR PVC PIPE AND FITTINGS.

D-2740 PVC TUBING

D-2855 SOLVENT-CEMENTED JOINTS WITH PVC PIPE AND FITTINGS

F-656 PRIMERS FOR USE IN CEMENT JOINTS AT PVC PIPE AND FITTINGS

ALL JOINTS SHALL BE SOLVENT CEMENTED. SOLVENT CEMENTED JOINTS SHOULD BE MADE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS OR IN ACCORDANCE WITH ASTM D2855, STANDARD RECOMMENDED PRACTICE FOR "MAKING SOLVENT CEMENTED JOINTS WITH PVC PIPE AND FITTINGS.

3. PERFORATED PIPING SHALL HAVE FACTORY INSTALLED PERFORATIONS. PIPING HAVING PERFORATIONS INSTALLED IN THE FIELD SHALL NOT BE ALLOWED.

4. PIPING MATERIAL ABOVE GROUND SHALL BE AS REQUIRED BY THE UNIFORM PLUMBING CODE.

5. PIPING INSTALLATION OTHER THAN SIZING AND AS MODIFIED HEREIN SHALL COMPLY WITH CHAPTER 12 OF THE PLUMBING CODE.

6. TRANSITION FITTING BETWEEN PLASTIC PIPE AND METAL PIPE SHALL BE APPROVED TYPE AND SHALL BE INSTALLED BELOW SLAB 5-FEET BEFORE PENETRATION THROUGH SLAB. FEMALE PLASTIC SCREWED FITTINGS SHALL NOT BE USED IN THIS INSTALLATION.

7. GAS VENTS INTERNAL TO THE BUILDING SHALL BE TERMINATED ABOVE THE ROOF AT LEAST 1219mm AWAY FROM ANY ADJACENT PROPERTY LINE AND AT LEAST 3050mm AWAY OR 914mm ABOVE ANY AIR INTAKE INTO THE BUILDING. GAS VENTS FOR COLLECTION SYSTEMS WHICH DO NOT ENTER THE BUILDING SHALL BE TERMINATED 3660mm ABOVE GRADE AT LEAST 1219mm FROM ANY ADJACENT PROPERTY LINE AND AT LEAST 3050mm AWAY FROM ANY INTAKE INTO THE BUILDING.

8. ALL PENETRATIONS SHALL BE SEALED WITH APPROVED MATERIAL IN A MANNER TO PREVENT ANY GAS LEAKAGE INTO THE BUILDING.

9. PERFORATED METHANE GAS COLLECTION PIPING SHALL BE SURROUNDED WITH AT LEAST 102mm THICK FINE GRAVEL.

10. WHEN PERMEABLE MATERIAL IS REQUIRED AND THE CLASS AND KIND IS NOT SPECIFIED, 9.525mm DIMENSION MATERIAL SHALL BE USED. PERMEABLE MATERIAL FOR USE IN BACKFILLING TRENCHES, UNDER AROUND, AND OVER UNDERDRAINS, SHALL CONSIST OF HARD, DURABLE, CLEAN SAND, GRAVEL, OR CRUSHED STONE, AND SHALL BE FREE FROM ORGANIC MATERIAL, CLAY BALLS, OR OTHER DELETERIOUS SUBSTANCES.

11. ALL VALVES SHALL BE UL/AGA LISTED FOR THE APPLICATION INTENDED.

12. PERFORATED DRAIN PIPING IN SOIL MAY BE LEVEL OR AT DOWN GRADIENT TO SUMP, BUT MAY NOT RUN UPHILL TO SUMP.

13. EVERY VENT RISER PIPE SHALL RUN WITHOUT SAG FROM VENT TRENCH TO WHICH IT IS CONNECTED AND SHALL BE LOCATED AND DIRECTED THAT FLAMMABLE GASES WILL NOT ACCUMULATE OR TRAVEL TO AN UNSAFE LOCATION, ENTER BUILDING OPENINGS, OR BE TRAPPED UNDER EAVES.

14. VENT RISER PIPES RUNNING IN A SEMI-HORIZONTAL DIRECTION SHALL BE INSTALLED TO PROVIDE A MIN. OF 6.35mm OF FALL FOR EACH 25.4mm OF HORIZONTAL RUN-BACK TOWARD THE EARTH.

15. SUBJECT TO APPROVAL OF THE METHANE ENGINEER, TWO OR MORE VENT RISERS MAY BE MANIFOLDED TOGETHER AS LONG AS THE POINT OF COMBINATION IS NOT LESS THAN EIGHT FEET ABOVE THE RESPECTIVE VENT TRENCHES OF ORIGIN. THE INTERNAL CROSS SECTIONAL AREA OF THE COMBINED VENT RISER SHALL EQUAL THE COMBINED CROSS SECTIONAL AREA OF ALL PIPES MANIFOLDED.

16. ALL VENT RISERS SHALL BE LOCATED AND SUPPORTED IN AN APPROVED MANNER.

17. PIPING SHALL BE UNOBSTRUCTED UNLESS THE PLANS OR DETAILS CALL FOR FLAME ARRESTORS OR OTHER DEVICES.

[redacted] MEDICAL/DENTAL CLINIC

SUBSLAB PIPING SPECS

NOT TO SCALE — 25 GC-5|GC-5

[redacted] MEDICAL/DENTAL CLINIC

NO DETAIL

NOT TO SCALE — 24 GC-5|GC-5

GC-5

IF SHEET IS LESS THAN 28"x42", IT IS A REDUCED PRINT. SCALE REDUCED ACCORDINGLY.

[redacted]

MEDICAL/DENTAL CLINIC [redacted]

SUBSLAB VENTING DETAILS

SIZE	CODE IDENT. NO.	DRAWING NO.
F	XXXXX	8144529
		CONST. CONTR. NO. [redacted]
SCALE:		SPEC. 11996048 — SHEET 24 OF 316