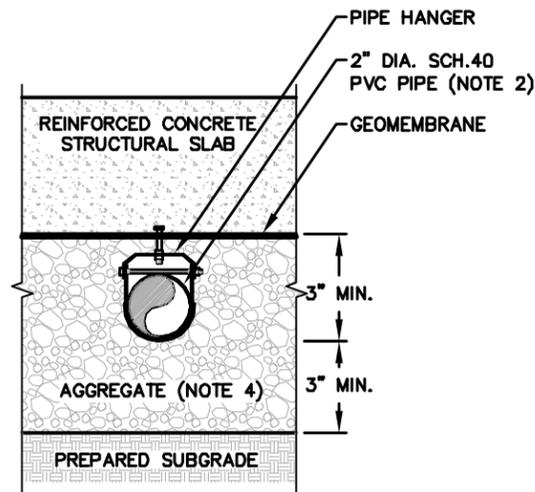
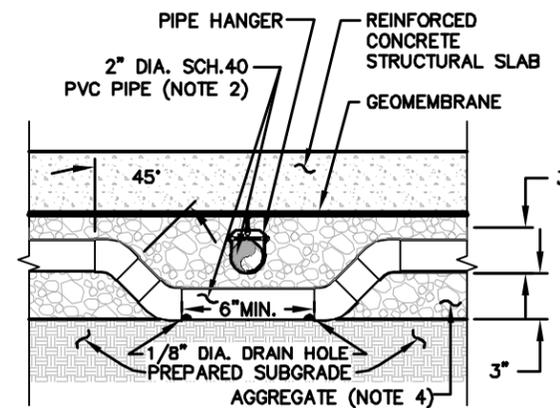


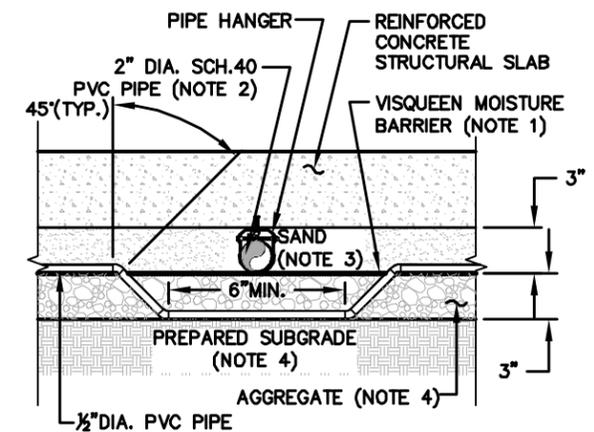
**SECTION
GAS EXTRACTION SYSTEM**
N.T.S.



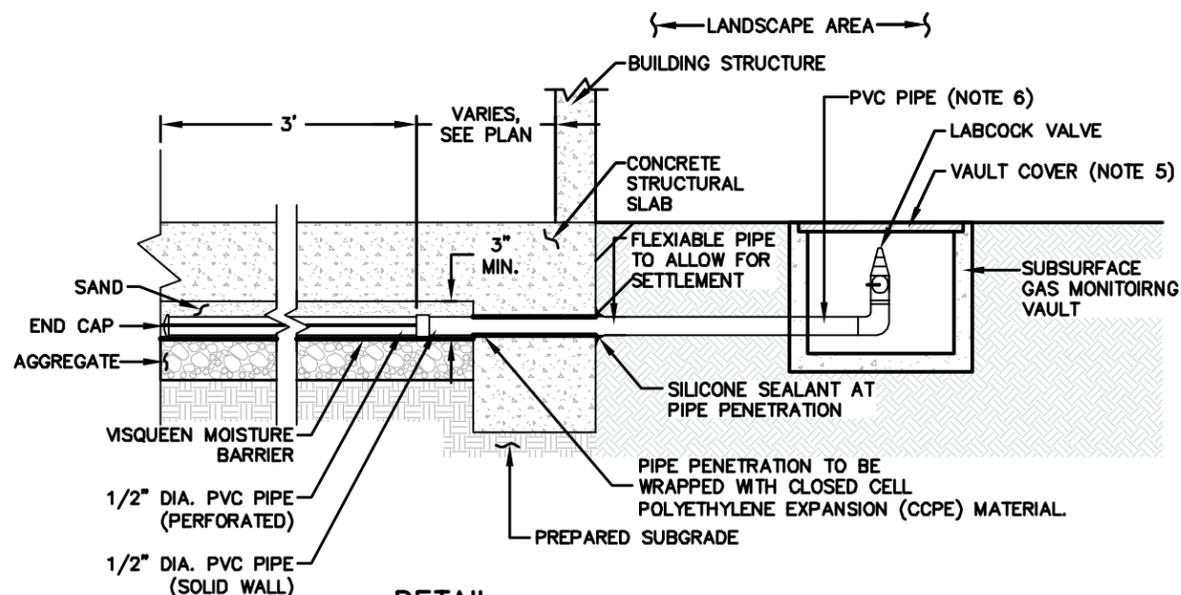
**SECTION
GAS EXTRACTION SYSTEM**
N.T.S.



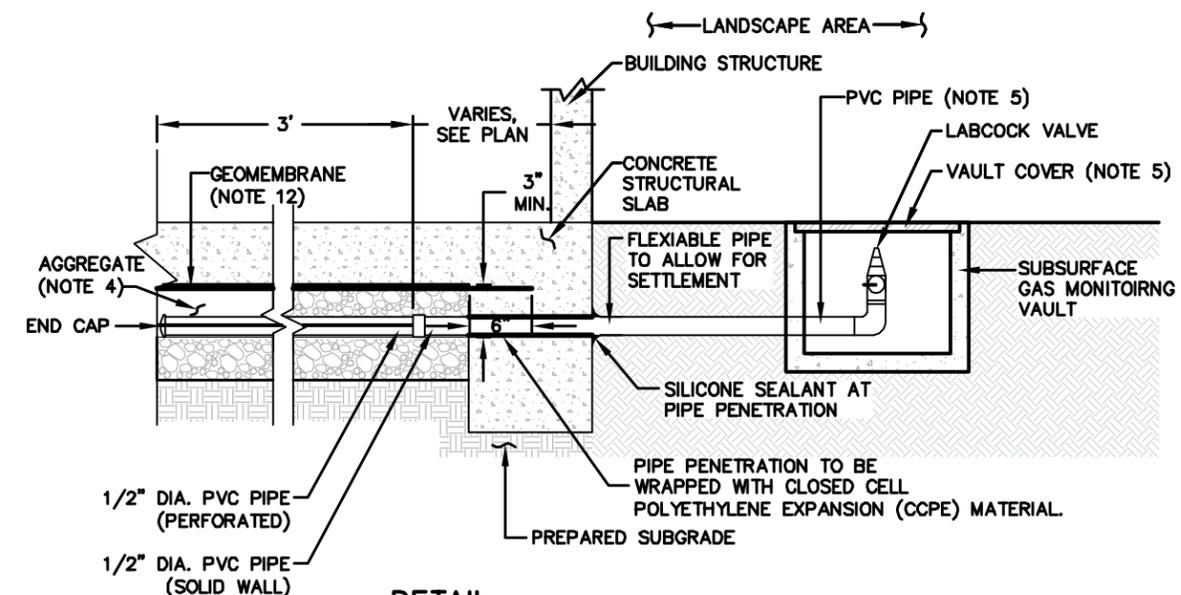
**SECTION
PVC PIPE CROSSING**
N.T.S.



**SECTION
GAS EXTRACTION SYSTEM**
N.T.S.



**DETAIL
METHANE MONITORING PROBE**
N.T.S.



**DETAIL
METHANE MONITORING PROBE**
N.T.S.

NOTES:

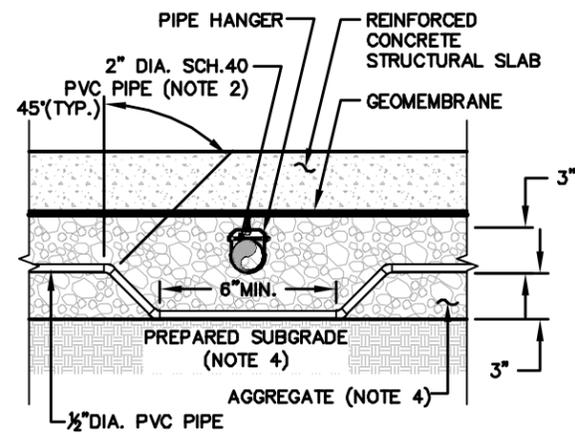
1. MOISTURE BARRIER TO BE INSTALLED FOR CONCRETE CURING PURPOSES IN ACCORDANCE WITH STRUCTURAL ENGINEERING DESIGN.
2. PIPE HANGERS MAY BE REQUIRED IF GEOTECHNICAL ENGINEER ANTICIPATES SETTLEMENT OF SOIL BENEATH STRUCTURAL SLAB.
3. SAND SHALL MEET THE REQUIREMENTS FOR PORTLAND CEMENT CONCRETE (SSPC 200-1.5.5), OR MEDIUM OR FINE SCREENINGS (SSPC 200-1.2.1)
4. AGGREGATE SHALL MEET REQUIREMENTS SPECIFIED IN ASTM C33 FOR #8 AGGREGATE UNLESS OTHERWISE NOTED IN THE GEOTECHNICAL INVESTIGATION REPORT FOR THE PROJECT.
5. VAULT SHALL HAVE A WATER-TIGHT, TRAFFIC RATED COVER.
6. PVC PIPE AND FITTINGS SHALL BE JOINED BY THREADED CONNECTIONS AND/OR STAINLESS STEEL, SELF-TAPPING SCREWS WITHIN THE GAS MONITORING VAULT. NO SOLVENTS WILL BE ALLOWED.
7. PIPE HANGER SPACING, 8 FEET ALONG SOLID WALL PIPE AND 10 FEET ALONG PERFORATED PIPE.
8. SLURRY SHALL CONSIST OF 2-SACK CEMENT SLURRY WITH 2 PERCENT BENTONITE.
9. SETTLEMENT BOX PER STRUCTURAL ENGINEER'S RECOMMENDATION.
10. IF NO SETTLEMENT BOX IS REQUIRED PER STRUCTURAL ENGINEER'S RECOMMENDATIONS, THEN TRENCH DAM WILL ABUT BUILDING GRADE BEAM.
11. DRY UTILITIES PENETRATING THE STRUCTURAL SLAB SHALL HAVE THE ANNULUS OF THE CONDUIT SEALED USING 1" THICK DOW SILICONE SEALANT. SEALANT LOCATION TO BE AT FIRST CONDUIT JOINT WITHIN STRUCTURE.
12. GEOMEMBRANE SHALL EXTEND A MINIMUM OF 6 INCHES ONTO PERIMETER GRADE BEAMS AT LIMIT OF GEOMEMBRANE.
13. GEOMEMBRANE SHALL EXTEND TO LIMITS SHOWN ON FIGURES 3A THROUGH 3E AT PILE CAPS ALONG LIMIT OF GEOMEMBRANE.



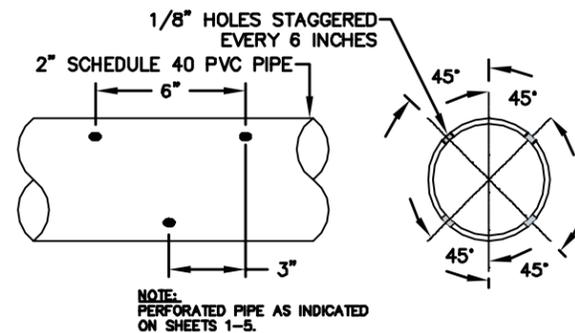
DETAILS
SLOUGH ESTATES
BRITANNIA EAST GRAND
SOUTH SAN FRANCISCO, CALIFORNIA

FIGURE NO. 2A
PROJECT NO. SC0347
DATE: DECEMBER 2005

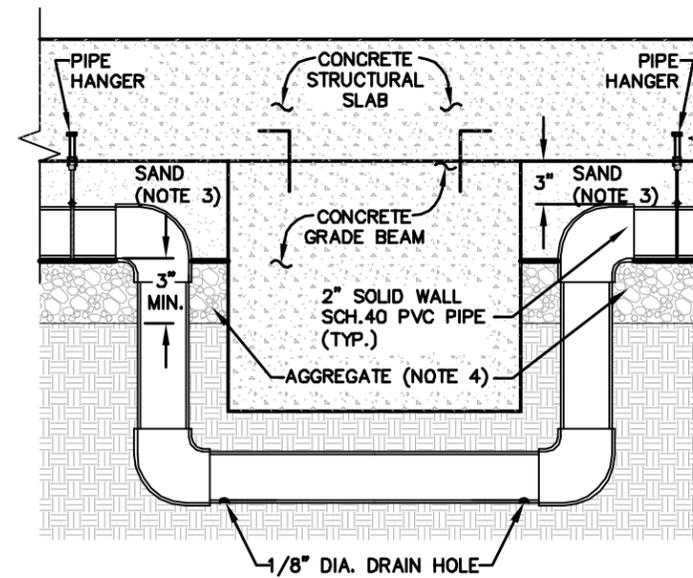
P:\PR\SD\Cadd\CADD\SC0347\O & M\SC0347-9-m-Details-1 (FIG-2A).dwg 3/20/06 12:01 Administrator



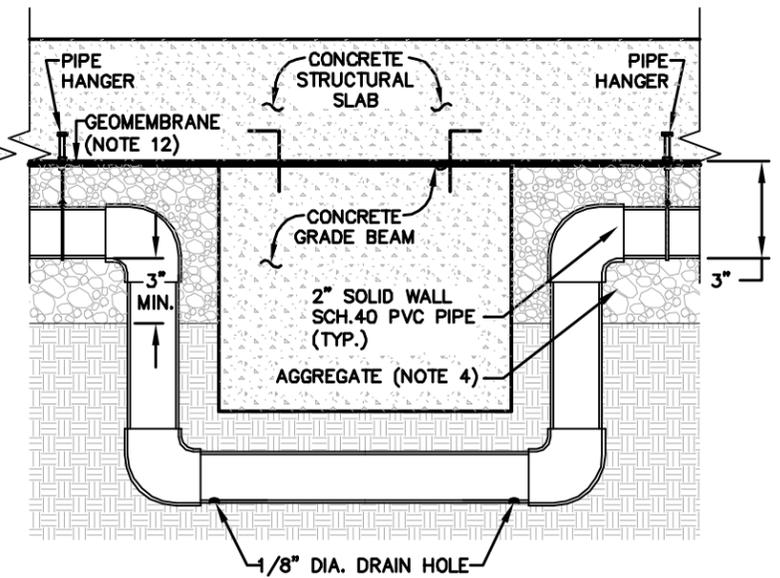
**SECTION
GAS EXTRACTION SYSTEM**
N.T.S.



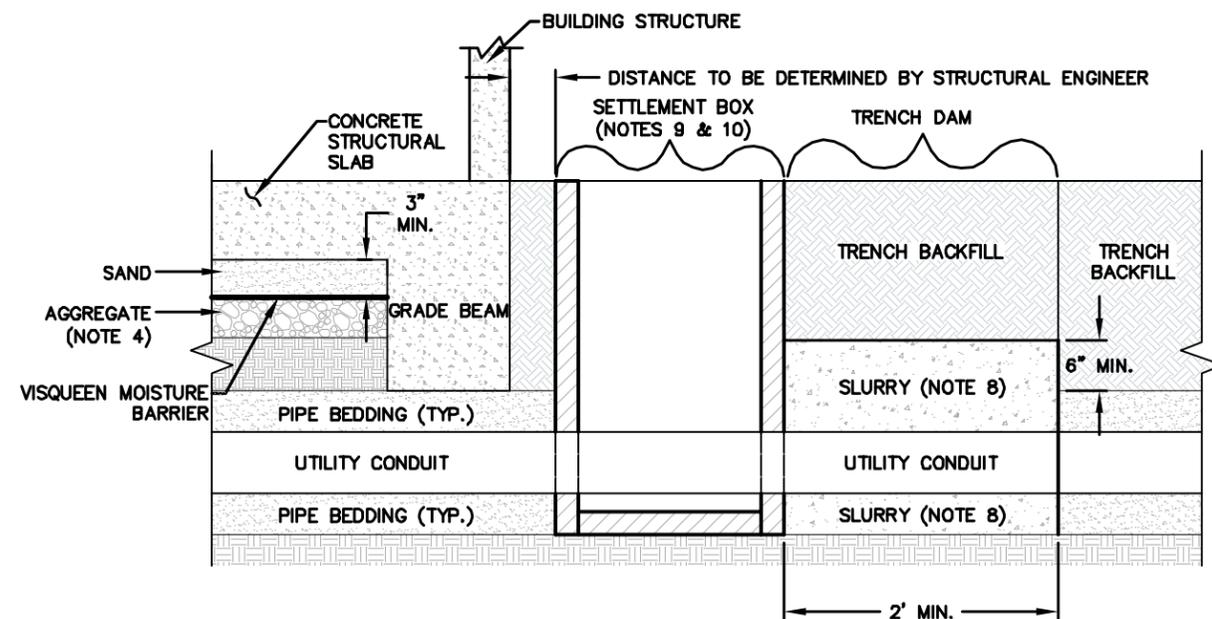
**SECTION
PERFORATED PVC PIPE**
N.T.S.



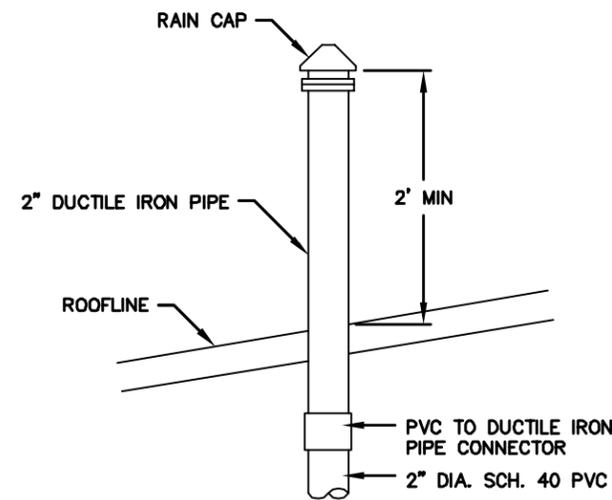
**SECTION
PIPE CROSSING AT GRADE BEAM**
N.T.S.



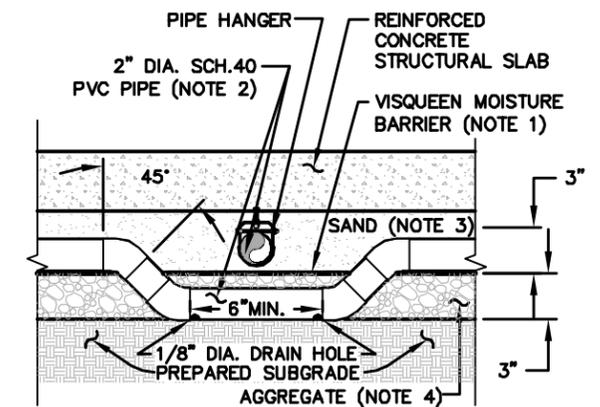
**SECTION
PIPE CROSSING AT GRADE BEAM**
N.T.S.



**DETAIL
SUBSURFACE TRENCH CUT OFF**
N.T.S.



**DETAIL
AIR INLET**
N.T.S.



**SECTION
PVC PIPE CROSSING**
N.T.S.

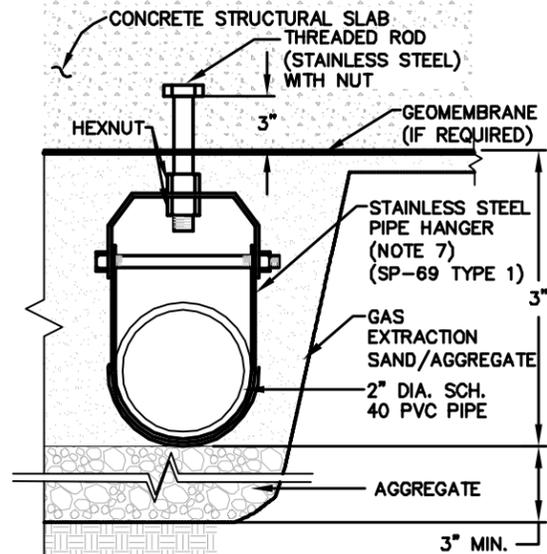
NOTES:

1. MOISTURE BARRIER TO BE INSTALLED FOR CONCRETE CURING PURPOSES IN ACCORDANCE WITH STRUCTURAL ENGINEERING DESIGN.
2. PIPE HANGERS MAY BE REQUIRED IF GEOTECHNICAL ENGINEER ANTICIPATES SETTLEMENT OF SOIL BENEATH STRUCTURAL SLAB.
3. SAND SHALL MEET THE REQUIREMENTS FOR PORTLAND CEMENT CONCRETE (SSPC 200-1.5.5), OR MEDIUM OR FINE SCREENINGS (SSPC 200-1.2.1)
4. AGGREGATE SHALL MEET REQUIREMENTS SPECIFIED IN ASTM C33 FOR #8 AGGREGATE UNLESS OTHERWISE NOTED IN THE GEOTECHNICAL INVESTIGATION REPORT FOR THE PROJECT.
5. VAULT SHALL HAVE A WATER-TIGHT, TRAFFIC RATED COVER.
6. PVC PIPE AND FITTINGS SHALL BE JOINED BY THREADED CONNECTIONS AND/OR STAINLESS STEEL, SELF-TAPPING SCREWS WITHIN THE GAS MONITORING VAULT. NO SOLVENTS WILL BE ALLOWED.
7. PIPE HANGER SPACING, 8 FEET ALONG SOLID WALL PIPE AND 10 FEET ALONG PERFORATED PIPE.
8. SLURRY SHALL CONSIST OF 2-SACK CEMENT SLURRY WITH 2 PERCENT BENTONITE.
9. SETTLEMENT BOX PER STRUCTURAL ENGINEER'S RECOMMENDATION.
10. IF NO SETTLEMENT BOX IS REQUIRED PER STRUCTURAL ENGINEER'S RECOMMENDATIONS, THEN TRENCH DAM WILL ABUT BUILDING GRADE BEAM.
11. DRY UTILITIES PENETRATING THE STRUCTURAL SLAB SHALL HAVE THE ANNULUS OF THE CONDUIT SEALED USING 1" THICK DOW SILICONE SEALANT. SEALANT LOCATION TO BE AT FIRST CONDUIT JOINT WITHIN STRUCTURE.
12. GEOMEMBRANE SHALL EXTEND A MINIMUM OF 6 INCHES ONTO PERIMETER GRADE BEAMS AT LIMIT OF GEOMEMBRANE.
13. GEOMEMBRANE SHALL EXTEND TO LIMITS SHOWN ON FIGURES 3A THROUGH 3E AT PILE CAPS ALONG LIMIT OF GEOMEMBRANE.

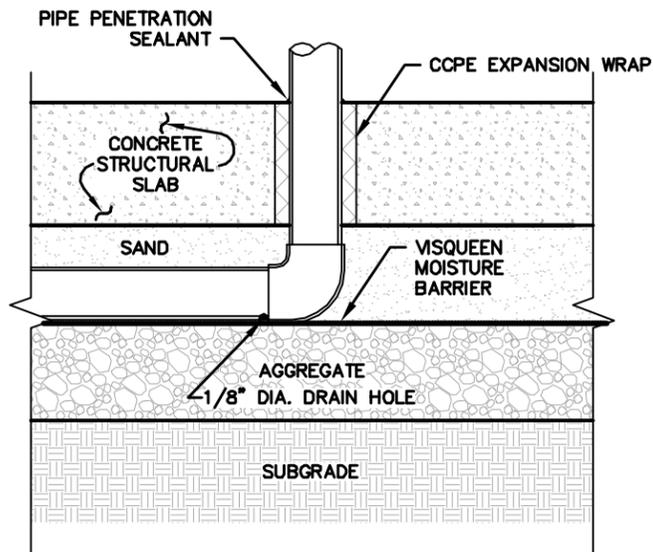
GEO SYNTEC CONSULTANTS

DETAILS
SLOUGH ESTATES
BRITANNIA EAST GRAND
SOUTH SAN FRANCISCO, CALIFORNIA

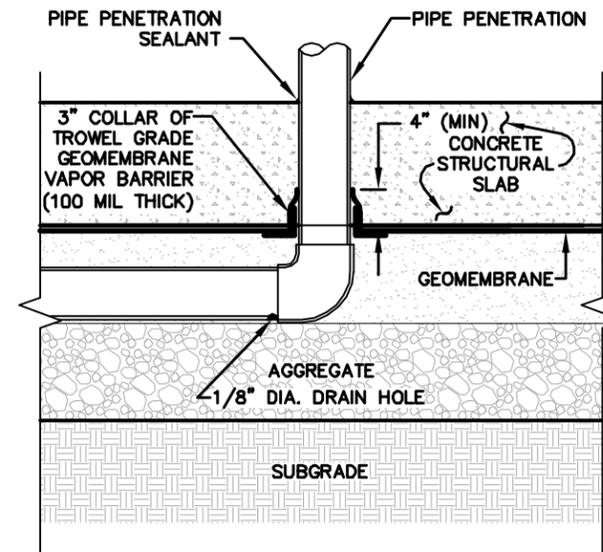
FIGURE NO. 2B
PROJECT NO. SC0347
DATE: DECEMBER 2005



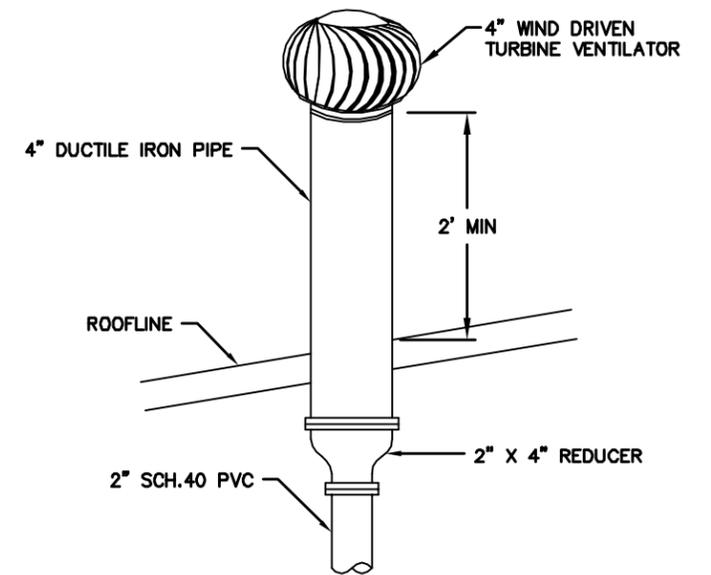
**DETAIL
PIPE HANGER**
N.T.S.



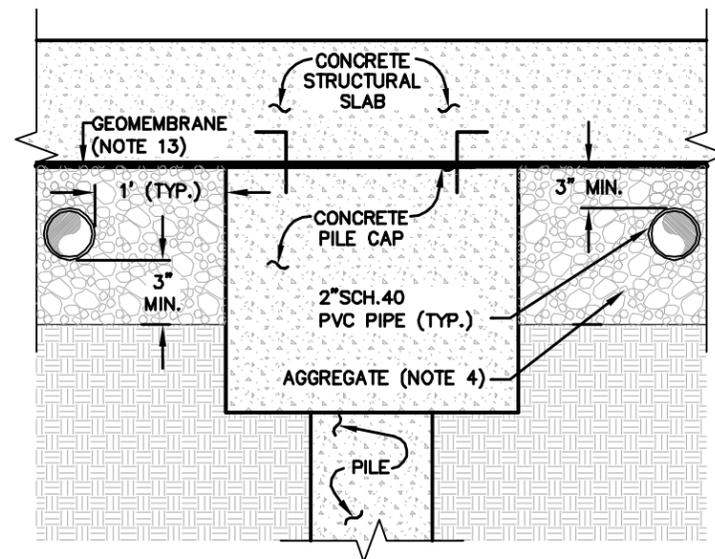
**DETAIL
PIPE PENETRATION**
N.T.S.



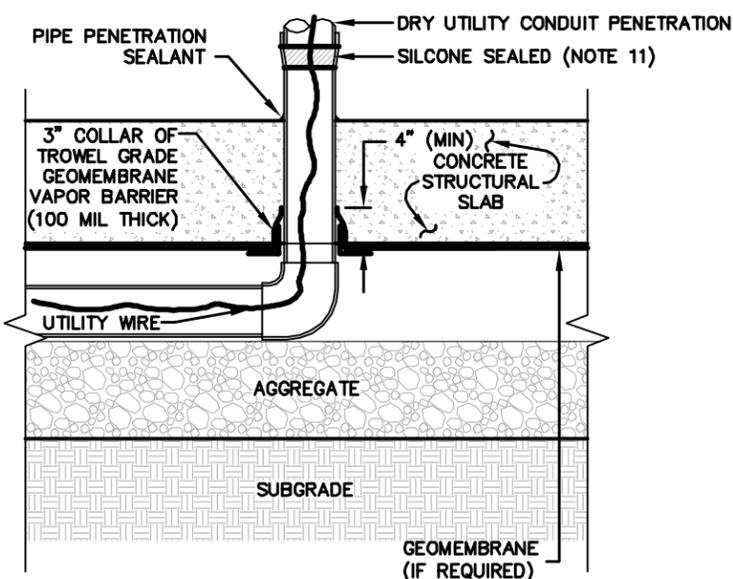
**DETAIL
GEOMEMBRANE PENETRATION**
N.T.S.



**DETAIL
GAS VENT**
N.T.S.



**SECTION
GEOMEMBRANE CROSSING PILE CAP**
N.T.S.



**DETAIL
DRY UTILITY SLAB PENETRATION**
N.T.S.

NOTES:

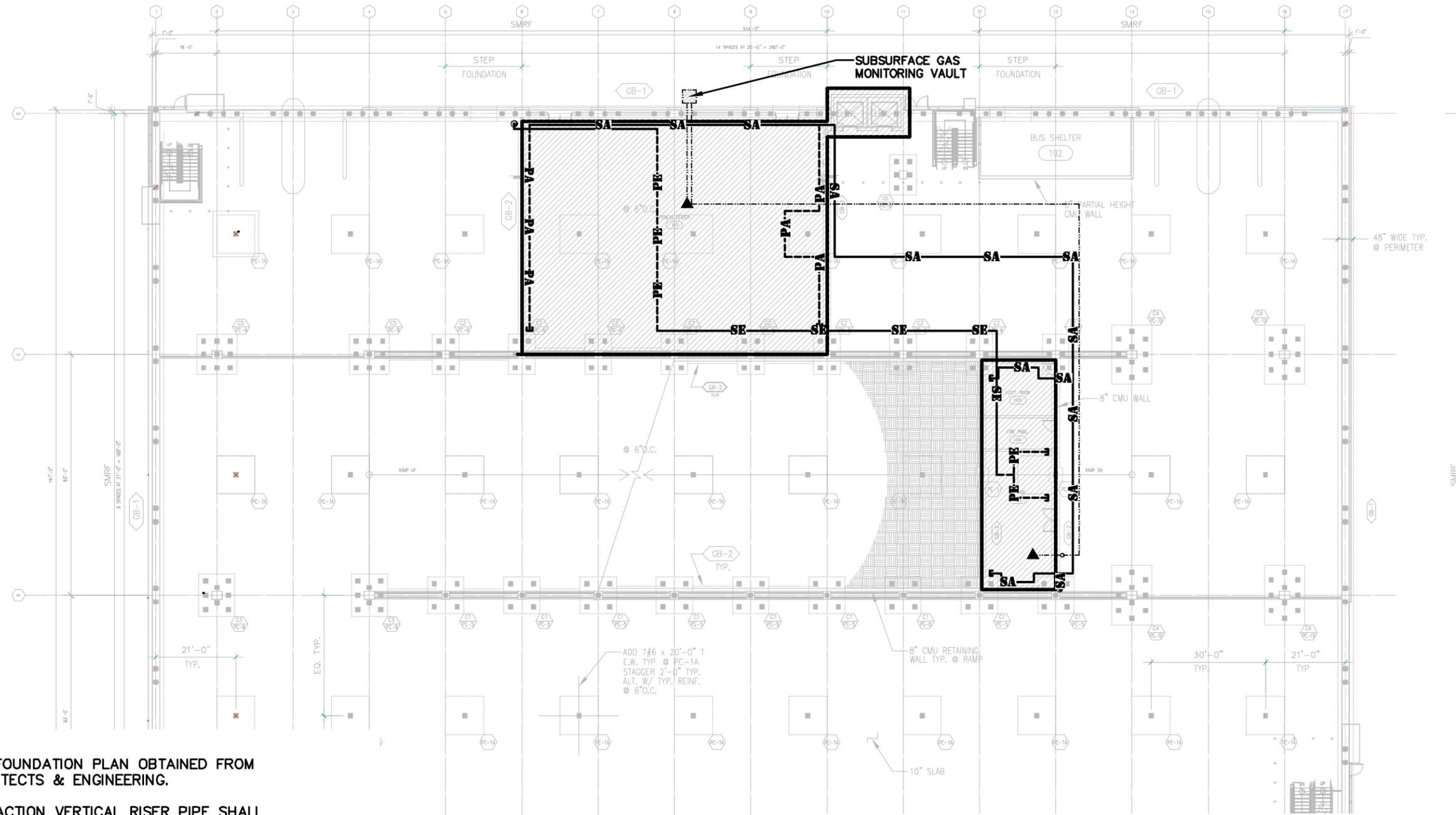
1. MOISTURE BARRIER TO BE INSTALLED FOR CONCRETE CURING PURPOSES IN ACCORDANCE WITH STRUCTURAL ENGINEERING DESIGN.
2. PIPE HANGERS MAY BE REQUIRED IF GEOTECHNICAL ENGINEER ANTICIPATES SETTLEMENT OF SOIL BENEATH STRUCTURAL SLAB.
3. SAND SHALL MEET THE REQUIREMENTS FOR PORTLAND CEMENT CONCRETE (SSPWC 200-1.5.5), OR MEDIUM OR FINE SCREENINGS (SSPWC 200-1.2.1)
4. AGGREGATE SHALL MEET REQUIREMENTS SPECIFIED IN ASTM C33 FOR #8 AGGREGATE UNLESS OTHERWISE NOTED IN THE GEOTECHNICAL INVESTIGATION REPORT FOR THE PROJECT.
5. VAULT SHALL HAVE A WATER-TIGHT, TRAFFIC RATED COVER.
6. PVC PIPE AND FITTINGS SHALL BE JOINED BY THREADED CONNECTIONS AND/OR STAINLESS STEEL, SELF-TAPPING SCREWS WITHIN THE GAS MONITORING VAULT. NO SOLVENTS WILL BE ALLOWED. CAPS ALONG LIMIT OF GEOMEMBRANE.
7. PIPE HANGER SPACING, 8 FEET ALONG SOLID WALL PIPE AND 10 FEET ALONG PERFORATED PIPE.
8. SLURRY SHALL CONSIST OF 2-SACK CEMENT SLURRY WITH 2 PERCENT BENTONITE.
9. SETTLEMENT BOX PER STRUCTURAL ENGINEER'S RECOMMENDATION.
10. IF NO SETTLEMENT BOX IS REQUIRED PER STRUCTURAL ENGINEER'S RECOMMENDATIONS, THEN TRENCH DAM WILL ABUT BUILDING GRADE BEAM.
11. DRY UTILITIES PENETRATING THE STRUCTURAL SLAB SHALL HAVE THE ANNULUS OF THE CONDUIT SEALED USING 1" THICK DOW SILICONE SEALANT. SEALANT LOCATION TO BE AT FIRST CONDUIT JOINT WITHIN STRUCTURE.
12. GEOMEMBRANE SHALL EXTEND A MINIMUM OF 6 INCHES ONTO PERIMETER GRADE BEAMS AT LIMIT OF GEOMEMBRANE.
13. GEOMEMBRANE SHALL EXTEND TO LIMITS SHOWN ON FIGURES 3A THROUGH 3E AT PILE CAPS ALONG LIMIT OF GEOMEMBRANE.

 **GeoSYNTEC CONSULTANTS**

DETAILS
SLOUGH ESTATES
BRITANNIA EAST GRAND
SOUTH SAN FRANCISCO, CALIFORNIA

FIGURE NO. 2C
PROJECT NO. SC0347
DATE: DECEMBER 2005

P:\PR\SDCadd\CADD\SC0347\O & M\SC0347-9-m-Parking.dwg 3/20/06 11:40 Administrator



NOTES:

1. BUILDING FOUNDATION PLAN OBTAINED FROM DES ARCHITECTS & ENGINEERING.
2. GAS EXTRACTION VERTICAL RISER PIPE SHALL EXTEND A MINIMUM OF 3 FEET ABOVE ROOF LINE, CONTAIN A WIND DRIVEN ROTARY TURBINE VENTILATOR, AND BE PLACED A MINIMUM OF 10 FEET FROM HVAC INLETS OR BUILDING OPENINGS.
3. AIR INLET VERTICAL RISER SHALL BE INSTALLED A MINIMUM OF 10 FEET ABOVE GRADE OR HVAC INLETS AND OPENINGS.
4. UTILITIES WHICH PENETRATE THE BUILDING SLAB SHOULD BE CONSTRUCTED AS SHOWN ON FIGURE 2C.
5. A SUBSURFACE TRENCH CUT OFF SHOULD BE CONSTRUCTED FOR UTILITIES ENTERING THE ENCLOSED PORTIONS OF THE BUILDING (I.E. AREAS WITH GEOMEMBRANE GAS BARRIER) AS SHOWN ON FIGURE 2B.

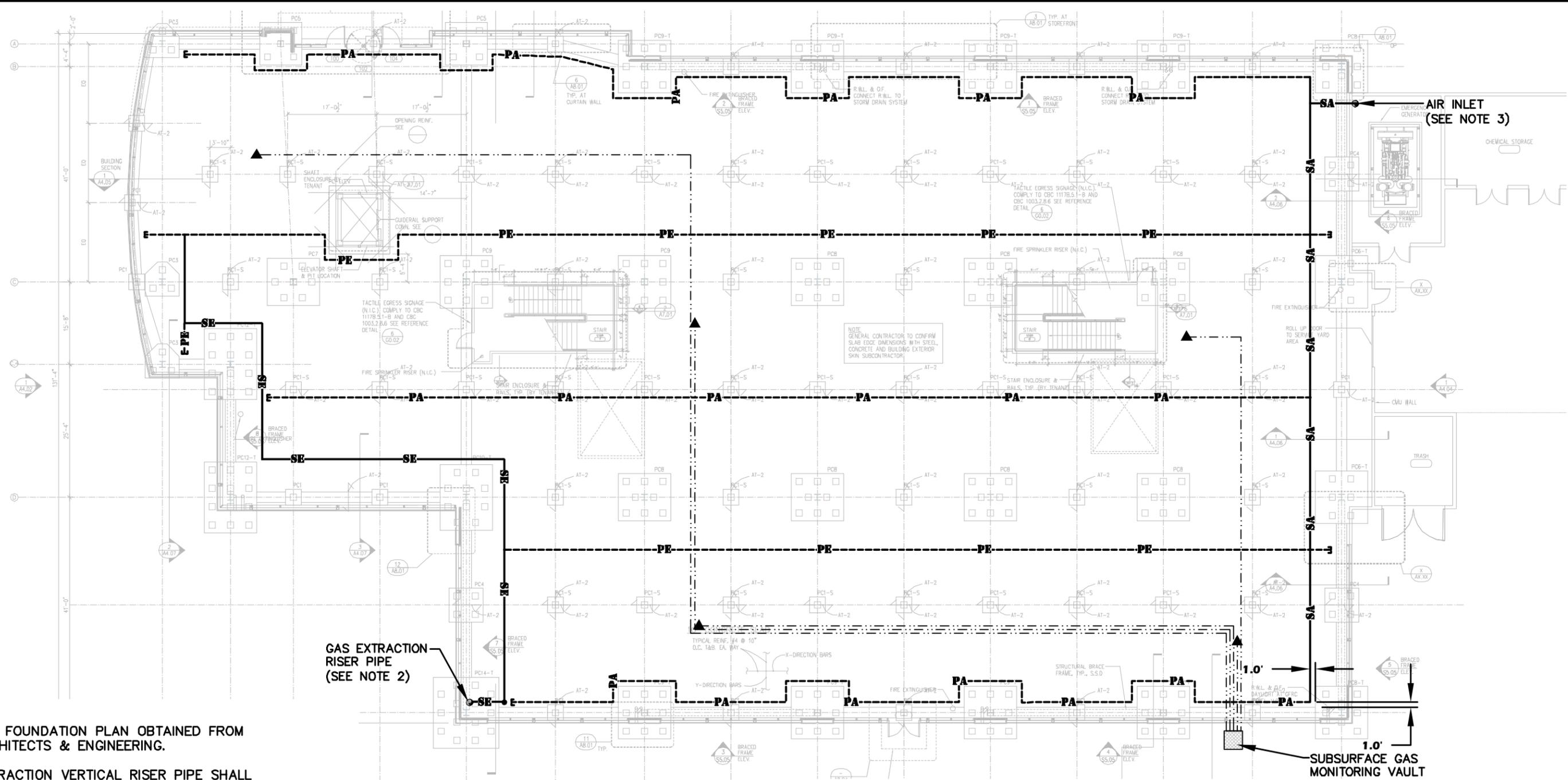


LEGEND

PA----- PERFORATED AIR INLET PIPE 2" DIA. SCH40 PVC	PE----- PERFORATED GAS EXTRACTION PIPE 2" DIA. SCH40 PVC	SA----- SOLID WALL AIR INLET PIPE 2" DIA. SCH40 PVC	SE----- SOLID WALL GAS EXTRACTION PIPE 2" DIA. SCH40 PVC
----- GAS MONITORING PIPE 1/2" DIA SCH80 PVC	▲ SUBSURFACE GAS MONITORING POINT	▨ LIMITS OF GEOMEMBRANE GAS BARRIER	

GEOSYNTEC CONSULTANTS	
PARKING STRUCTURE B GAS MONITORING SYSTEM LAYOUT PLAN BRITANNIA EAST GRAND-PHASE II SOUTH SAN FRANCISCO, CALIFORNIA	
FIGURE NO. 3A PROJECT NO. SC0347 DATE: DECEMBER 2005	

P:\PR\SDCadd\CADD\SC0347\O & M\SC0347-9-m-Building-2.dwg 3/20/06 11:25 Administrator



1. BUILDING FOUNDATION PLAN OBTAINED FROM DES ARCHITECTS & ENGINEERING.
2. GAS EXTRACTION VERTICAL RISER PIPE SHALL EXTEND A MINIMUM OF 3 FEET ABOVE ROOF LINE, CONTAIN A WIND DRIVEN ROTARY TURBINE VENTILATOR, AND BE PLACED A MINIMUM OF 10 FEET FROM HVAC INLETS OR BUILDING OPENINGS.
3. AIR INLET VERTICAL RISER SHALL BE INSTALLED A MINIMUM OF 10 FEET ABOVE GRADE OR HVAC INLETS AND OPENINGS.
4. UTILITIES WHICH PENETRATE THE BUILDING SLAB SHOULD BE CONSTRUCTED AS SHOWN ON FIGURE 2C.
5. A SUBSURFACE TRENCH CUT OFF SHOULD BE CONSTRUCTED FOR UTILITIES ENTERING THE ENCLOSED PORTIONS OF THE BUILDING (I.E. AREAS WITH GEOMEMBRANE GAS BARRIER) AS SHOWN ON FIGURE 2B.

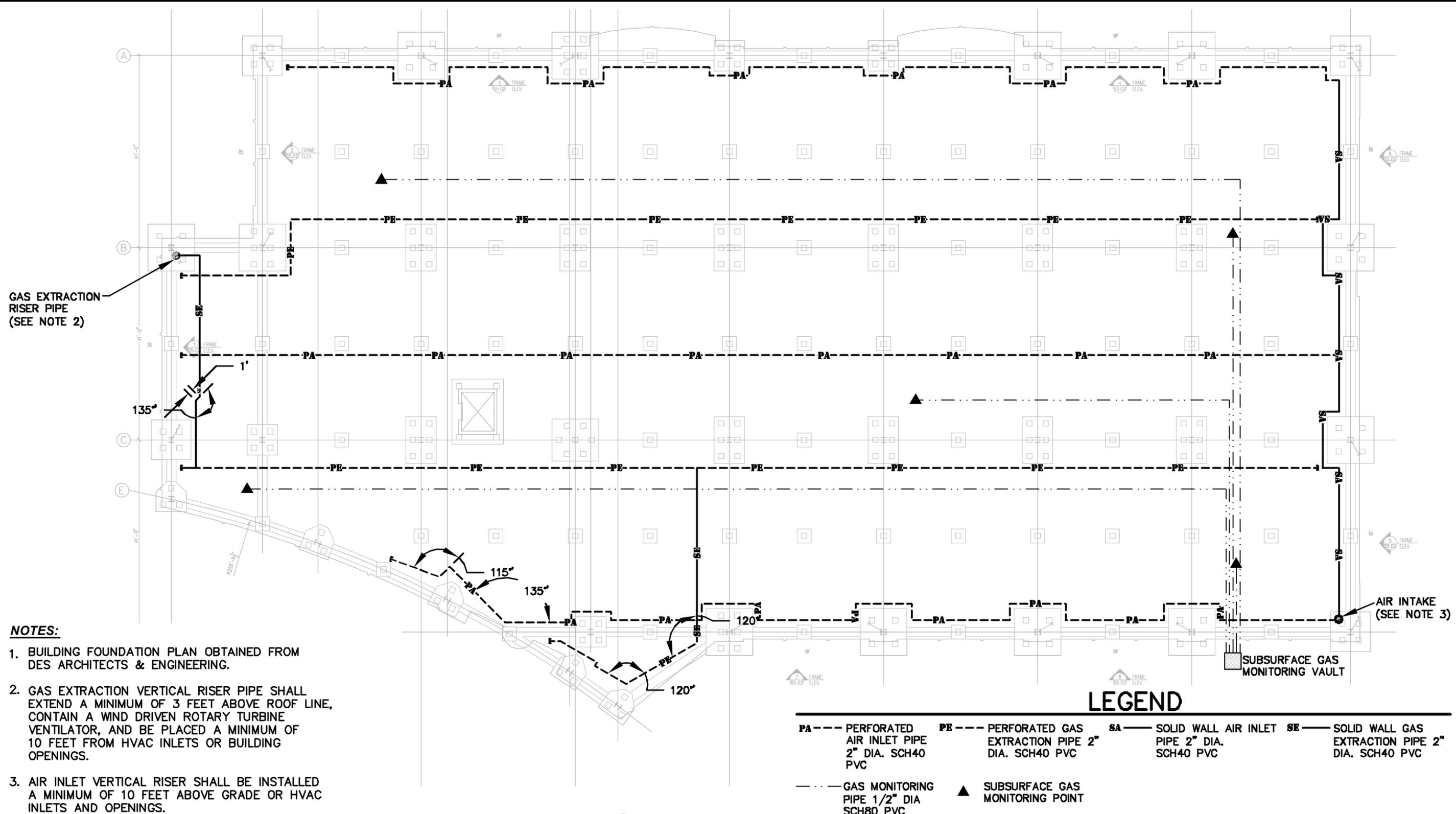
LEGEND

PA	PERFORATED AIR INLET PIPE 2" DIA. SCH40 PVC	PE	PERFORATED GAS EXTRACTION PIPE 2" DIA. SCH40 PVC	SA	SOLID WALL AIR INLET PIPE 2" DIA. SCH40 PVC	SE	SOLID WALL GAS EXTRACTION PIPE 2" DIA. SCH40 PVC
---	GAS MONITORING PIPE 1/2" DIA SCH80 PVC	▲	SUBSURFACE GAS MONITORING POINT				



	
BUILDING 2 GAS MONITORING SYSTEM LAYOUT PLAN BRITANNIA EAST GRAND—PHASE II SOUTH SAN FRANCISCO, CALIFORNIA	
FIGURE NO. 3B PROJECT NO. SC0347 DATE: DECEMBER 2005	

P:\PR\SDCadd\CADD\SC0347\O & M\SC0347-9-m-Building-7.dwg 3/20/06 11:58 Administrator



NOTES:

1. BUILDING FOUNDATION PLAN OBTAINED FROM DES ARCHITECTS & ENGINEERING.
2. GAS EXTRACTION VERTICAL RISER PIPE SHALL EXTEND A MINIMUM OF 3 FEET ABOVE ROOF LINE, CONTAIN A WIND DRIVEN ROTARY TURBINE VENTILATOR, AND BE PLACED A MINIMUM OF 10 FEET FROM HVAC INLETS OR BUILDING OPENINGS.
3. AIR INLET VERTICAL RISER SHALL BE INSTALLED A MINIMUM OF 10 FEET ABOVE GRADE OR HVAC INLETS AND OPENINGS.
4. UTILITIES WHICH PENETRATE THE BUILDING SLAB SHOULD BE CONSTRUCTED AS SHOWN ON FIGURE 2C.
5. A SUBSURFACE TRENCH CUT OFF SHOULD BE CONSTRUCTED FOR UTILITIES ENTERING THE ENCLOSED PORTIONS OF THE BUILDING (I.E. AREAS WITH GEOMEMBRANE GAS BARRIER) AS SHOWN ON FIGURE 2B.

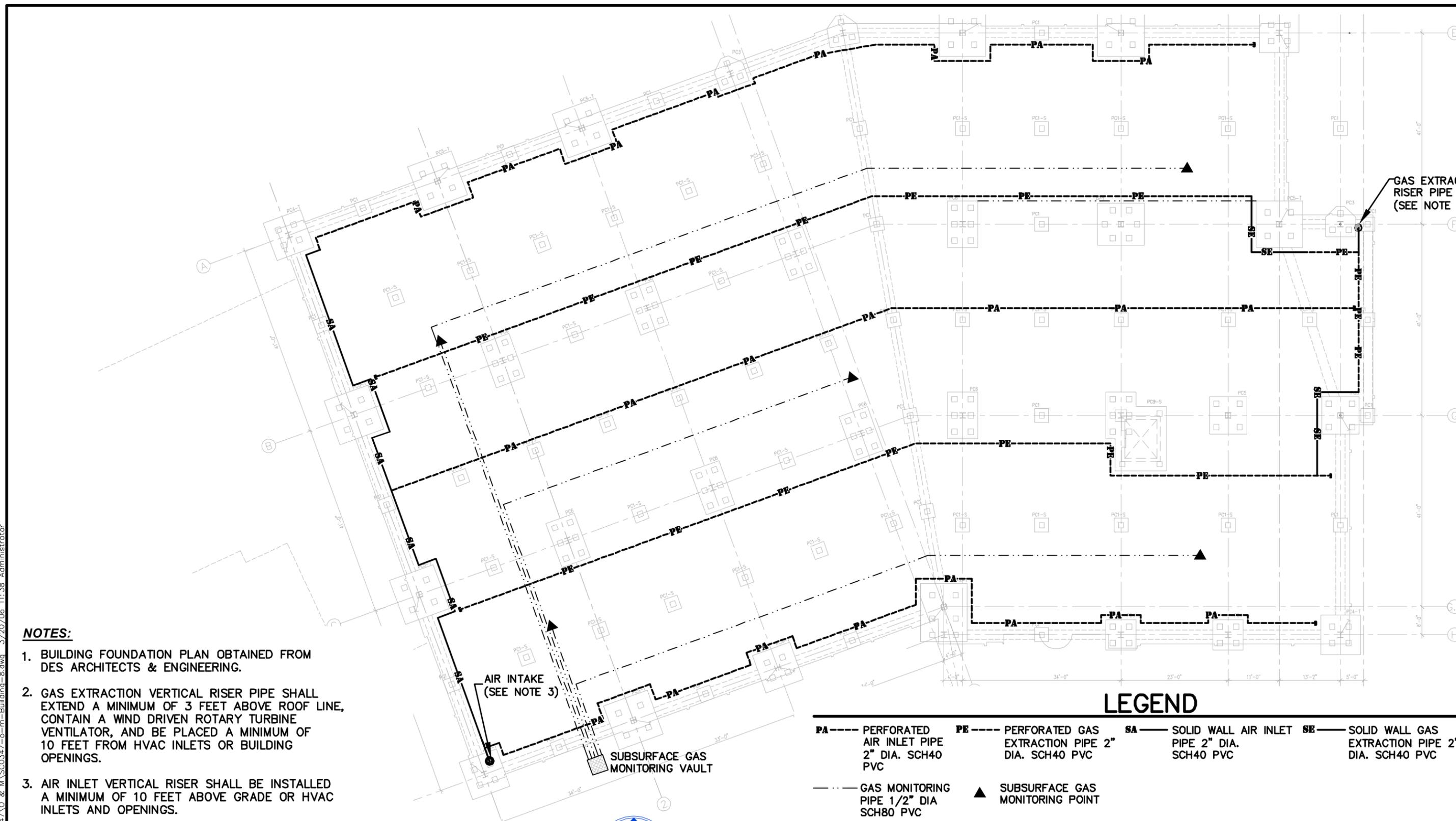


LEGEND

PA --- PERFORATED AIR INLET PIPE 2" DIA. SCH40 PVC	PE --- PERFORATED GAS EXTRACTION PIPE 2" DIA. SCH40 PVC	SA --- SOLID WALL AIR INLET PIPE 2" DIA. SCH40 PVC	SE --- SOLID WALL GAS EXTRACTION PIPE 2" DIA. SCH40 PVC
--- GAS MONITORING PIPE 1/2" DIA SCH80 PVC	▲ SUBSURFACE GAS MONITORING POINT		

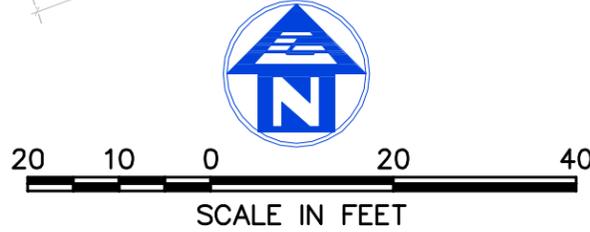
 GEOSYNTEC CONSULTANTS	BUILDING 7 GAS MONITORING SYSTEM LAYOUT PLAN BRITANNIA EAST GRAND-PHASE II SOUTH SAN FRANCISCO, CALIFORNIA	FIGURE NO. 3C
		PROJECT NO. SC0347
		DATE: DECEMBER 2005

P:\PR\SD\Cadd\CADD\SC0347\O & M\SC0347-9-m-Building-8.dwg 3/20/06 11:38 Administrator



NOTES:

1. BUILDING FOUNDATION PLAN OBTAINED FROM DES ARCHITECTS & ENGINEERING.
2. GAS EXTRACTION VERTICAL RISER PIPE SHALL EXTEND A MINIMUM OF 3 FEET ABOVE ROOF LINE, CONTAIN A WIND DRIVEN ROTARY TURBINE VENTILATOR, AND BE PLACED A MINIMUM OF 10 FEET FROM HVAC INLETS OR BUILDING OPENINGS.
3. AIR INLET VERTICAL RISER SHALL BE INSTALLED A MINIMUM OF 10 FEET ABOVE GRADE OR HVAC INLETS AND OPENINGS.
4. UTILITIES WHICH PENETRATE THE BUILDING SLAB SHOULD BE CONSTRUCTED AS SHOWN ON FIGURE 2C.
5. A SUBSURFACE TRENCH CUT OFF SHOULD BE CONSTRUCTED FOR UTILITIES ENTERING THE ENCLOSED PORTIONS OF THE BUILDING (I.E. AREAS WITH GEOMEMBRANE GAS BARRIER) AS SHOWN ON FIGURE 2B.



LEGEND

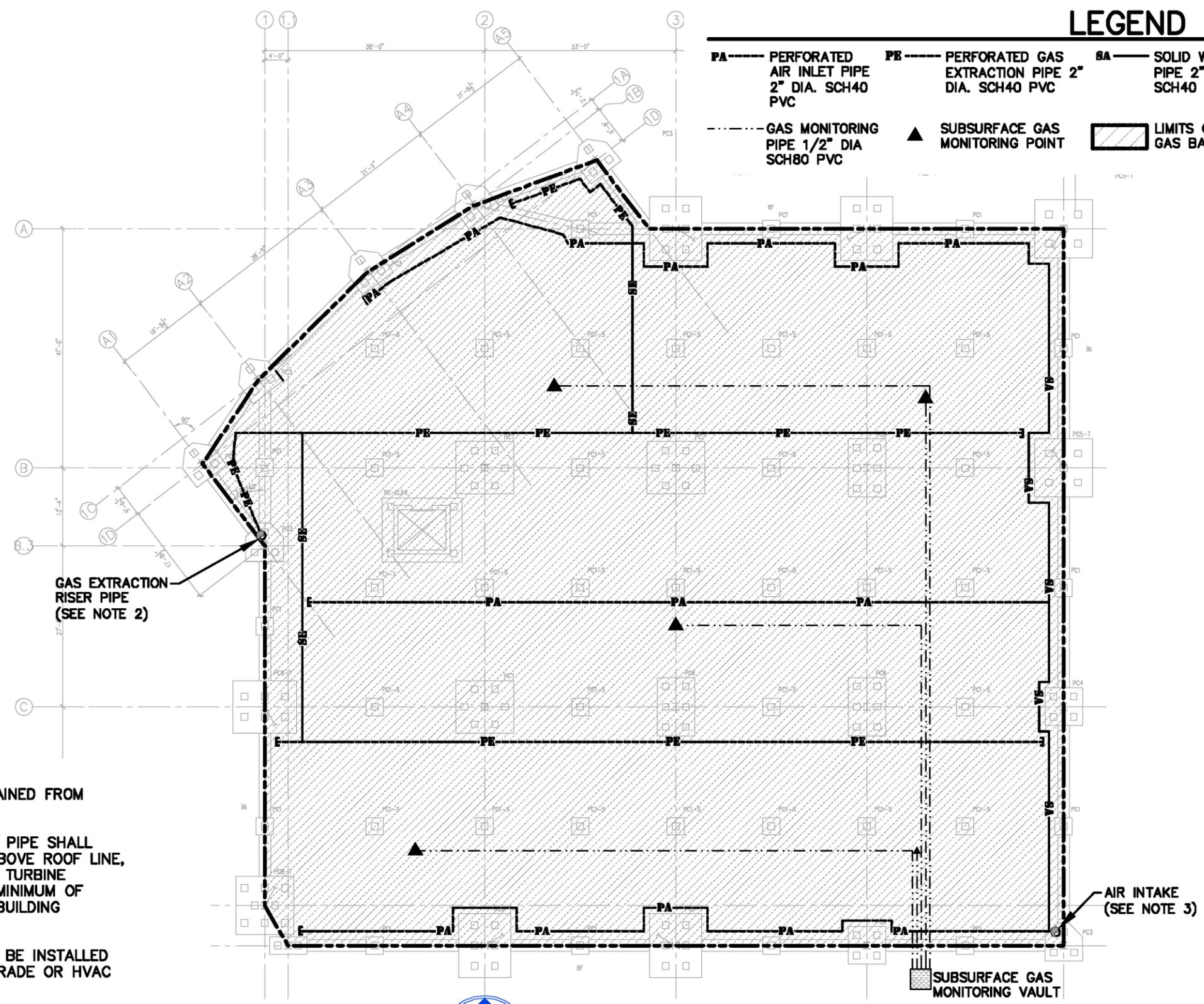
- PA --- PERFORATED AIR INLET PIPE 2" DIA. SCH40 PVC
- PE --- PERFORATED GAS EXTRACTION PIPE 2" DIA. SCH40 PVC
- SA --- SOLID WALL AIR INLET PIPE 2" DIA. SCH40 PVC
- SE --- SOLID WALL GAS EXTRACTION PIPE 2" DIA. SCH40 PVC
- GAS MONITORING PIPE 1/2" DIA SCH80 PVC
- ▲ SUBSURFACE GAS MONITORING POINT

<p>GEOSYNTEC CONSULTANTS</p> <p>BUILDING 8 GAS MONITORING SYSTEM LAYOUT PLAN BRITANNIA EAST GRAND-PHASE II SOUTH SAN FRANCISCO, CALIFORNIA</p>	FIGURE NO. 3D
	PROJECT NO. SC0347
	DATE: DECEMBER 2005

P:\PRJ\SDG\cadd\SC0347\0 & M\SC0347-0-m-Building-9.dwg 3/20/06 11:21 Administrator

LEGEND

- PA----- PERFORATED AIR INLET PIPE
2" DIA. SCH40
PVC
- PE----- PERFORATED GAS
EXTRACTION PIPE 2"
DIA. SCH40 PVC
- SA----- SOLID WALL AIR INLET
PIPE 2" DIA.
SCH40 PVC
- SE----- SOLID WALL GAS
EXTRACTION PIPE 2"
DIA. SCH40 PVC
- GAS MONITORING
PIPE 1/2" DIA
SCH80 PVC
- ▲ SUBSURFACE GAS
MONITORING POINT
- ▨ LIMITS OF GEOMEMBRANE
GAS BARRIER



NOTES:

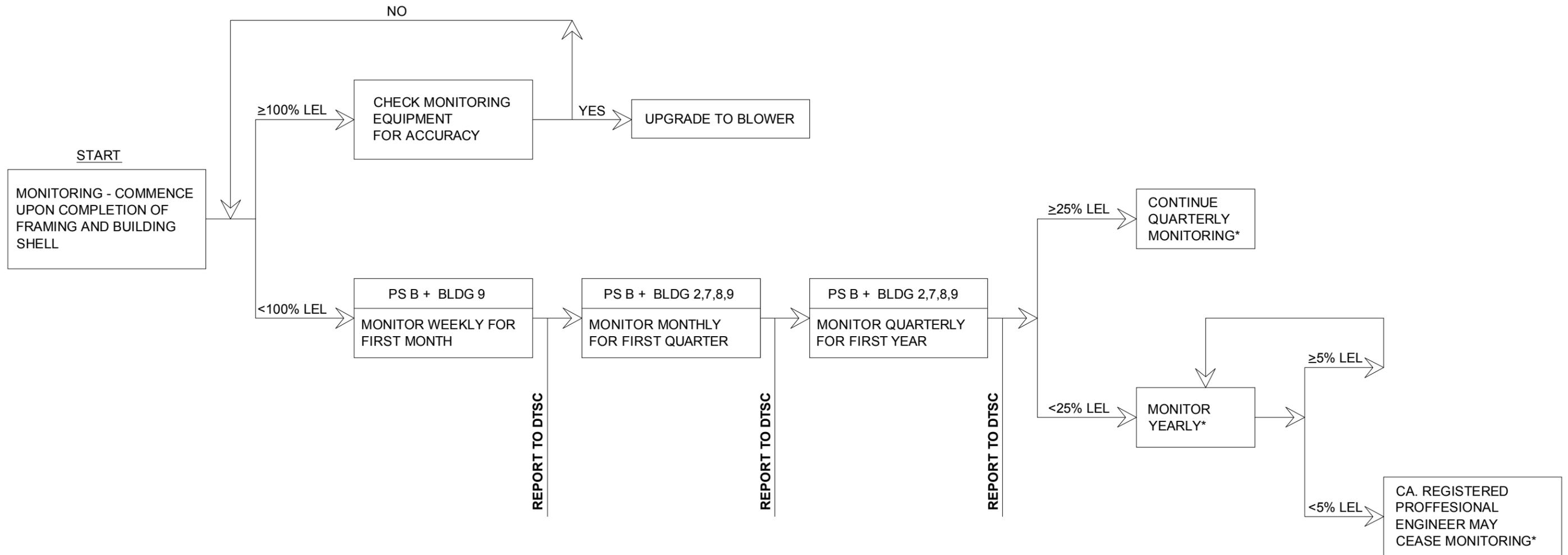
1. BUILDING FOUNDATION PLAN OBTAINED FROM DES ARCHITECTS & ENGINEERING.
2. GAS EXTRACTION VERTICAL RISER PIPE SHALL EXTEND A MINIMUM OF 3 FEET ABOVE ROOF LINE, CONTAIN A WIND DRIVEN ROTARY TURBINE VENTILATOR, AND BE PLACED A MINIMUM OF 10 FEET FROM HVAC INLETS OR BUILDING OPENINGS.
3. AIR INLET VERTICAL RISER SHALL BE INSTALLED A MINIMUM OF 10 FEET ABOVE GRADE OR HVAC INLETS AND OPENINGS.
4. UTILITIES WHICH PENETRATE THE BUILDING SLAB SHOULD BE CONSTRUCTED AS SHOWN ON FIGURE 2C.
5. A SUBSURFACE TRENCH CUT OFF SHOULD BE CONSTRUCTED FOR UTILITIES ENTERING THE ENCLOSED PORTIONS OF THE BUILDING (I.E. AREAS WITH GEOMEMBRANE GAS BARRIER) AS SHOWN ON FIGURE 2B.



BUILDING 9
GAS MONITORING SYSTEM LAYOUT PLAN
 BRITANNIA EAST GRAND—PHASE II
 SOUTH SAN FRANCISCO, CALIFORNIA

FIGURE NO. 3E
PROJECT NO. SC0347
DATE: DECEMBER 2005

P:\PR\SDCadd\CADD\SCO347\0 & M\SCO347-Fig4.dwg 3/20/06 11:23 Administrator



NOTES

- PS B - PARKING STRUCTURE B
- BLDG - BUILDING
- LEL - LOWER EXPLOSIVE LIMIT FOR METHANE (5% METHANE)
- * - FOR EACH INDIVIDUAL BUILDING AND PS B
- DTSC - DEPARTMENT OF TOXIC SUBSTANCES CONTROL
C/O MS. AMBER HARMON
700 HEINZ AVENUE, SUITE 200
BERKELEY, CALIFORNIA 94710



MONITORING PROCEDURE
SLOUGH ESTATES BRITANNIA EAST GRAND
SOUTH SAN FRANCISCO, CALIFORNIA

FIGURE NO. 4
PROJECT NO. SCO347
DATE: FEBRUARY 2006