<table>
<thead>
<tr>
<th>Role</th>
<th>Company/Contact Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architect</td>
<td>SOLOW REALTY &amp; DEVELOPMENT COMPANY, LLC</td>
</tr>
<tr>
<td></td>
<td>11 BROADWAY, 17TH FLOOR, NEW YORK, NY 10004</td>
</tr>
<tr>
<td></td>
<td>212-213-8007</td>
</tr>
<tr>
<td>Interior Designer</td>
<td>WHITEHALL INTERIORS</td>
</tr>
<tr>
<td></td>
<td>11 BROADWAY, SUITE 1700, NEW YORK, NY 10004</td>
</tr>
<tr>
<td></td>
<td>212-213-8007</td>
</tr>
<tr>
<td>Structural Engineer</td>
<td>WSP GROUP</td>
</tr>
<tr>
<td></td>
<td>ONE PENN PLAZA, 250 W 34TH STREET 2ND FL., NEW YORK, NY 1018</td>
</tr>
<tr>
<td></td>
<td>212-687-9885</td>
</tr>
<tr>
<td>M. E. P. Engineer</td>
<td>COSENTINI ASSOCIATES</td>
</tr>
<tr>
<td></td>
<td>TWO PENNSYLVANIA PLAZA, 3RD FL., NEW YORK 10121</td>
</tr>
<tr>
<td></td>
<td>212-615-3603</td>
</tr>
<tr>
<td>Building Envelope</td>
<td>UDIARIS</td>
</tr>
<tr>
<td>Consultant</td>
<td>380 PARK AVENUE SOUTH, 15TH FL., NEW YORK, NY 10010</td>
</tr>
<tr>
<td></td>
<td>212-689-5389</td>
</tr>
<tr>
<td>Expediting Consultant</td>
<td>GILLMAN CONSULTING INC.</td>
</tr>
<tr>
<td></td>
<td>40 WORTH STREET, SUITE 500, NEW YORK, NY 10113</td>
</tr>
<tr>
<td></td>
<td>212-349-9304</td>
</tr>
<tr>
<td>Geotechnical / SOE</td>
<td>LAGAN</td>
</tr>
<tr>
<td>Consultant</td>
<td>21 PENN PLAZA, 365 WEST 31ST STREET 8TH FLOOR, NEW YORK, NY10013</td>
</tr>
<tr>
<td></td>
<td>212-479-5403</td>
</tr>
<tr>
<td>Lighting Designer</td>
<td>FISHER MARANTZ STONE</td>
</tr>
<tr>
<td></td>
<td>22 WEST 19TH STREET FLOOR 6, NEW YORK, NY 10011</td>
</tr>
<tr>
<td></td>
<td>212-209-3622</td>
</tr>
</tbody>
</table>

**Building Information**

- **New Building DOB:** #121191441
- **Fire Alarm DOB:** #122980621
- **Temp Fire Standpipe DOB:** #140593793
- **BPP DOB:** #140588193
- **Existing Building Demolition DOB:** #12277536
- **DEP ID:** 5456
- **PARKS APPLICATION:** 23018
**Site Plan**

**Section**

**Bicycle Parking at Subcellar**

**Plan A**

**Scale 1:100**

**Ground Floor Retail Continuity**

**Scale 1:100**

**Recesses at Ground Floor**

**Scale 1:100**

**Notes:**

- **Site Plan**
- **Section**
- **Bicycle Parking at Subcellar**
- **Ground Floor Retail Continuity**
- **Recesses at Ground Floor**

**Architect:** VIDARIS

**Building Envelope Consultant:**

- **250 West 34th Street, 2nd Floor**
  - COSENTINI ASSOCIATES
  - 212-687-9888
  - NEW YORK, NY 10119
- **Two Pennsylvania Plaza, Third Floor**
  - TWO PENNSYLVANIA PLAZA
  - 212-689-5389
  - NEW YORK, NY 10004
- **11 Broadway, Suite 1532**
  - INTERIORS WHITEHALL
  - (212) 213-8007
  - NEW YORK, NY 10004

**SOLOW REALTY & DEVELOPMENT COMPANY, LLC**

- **Project:** 9 West 57th Street
- **Zoning:** 52.71
- **Lot:** 3/32"=1'-0"
- **Grade Level:** 3'-2" 6'-2" 7'-4" 10'
- **Project #:** 158 SF
- **Area of Street Wall Below Minimum Street Wall Height:** 2,648 SF (84'-6" x 31'-4")
- **Max 50%:** 219 SF
- **Proximity:**
  - 215 SF
  - 315 SF
  - 415 SF
  - 515 SF

**Designations**

- **Floor Area:**
  - 1st Floor: 245 SF
  - 2nd Floor: 45 SF
  - 3rd Floor: 63 SF
  - 4th Floor: 63 SF
  - 5th Floor: 62 SF
  - 6th Floor: 62 SF
- **Recesses:**
  - 1st Floor: 158 SF (5.9%)
  - 2nd Floor: 20 SF
  - 3rd Floor: 21 SF
  - 4th Floor: 21 SF
  - 5th Floor: 63 SF
  - 6th Floor: 63 SF
- **TOTAL:** 640 SF

**Timeline:**

- **DOB SUBMISSION**
  - 01/10/2017
  - 02/17/2017
  - 03/17/2017
  - 04/03/2017
  - 04/05/2017
  - 04/19/2017
  - 04/20/2017
  - 05/10/2017
  - 05/26/2017
- **60% CD SUBMISSION (NOT FOR BID)**
  - 02/17/2017
- **80% CD SUBMISSION**
  - 03/17/2017
- **90% CD SUBMISSION**
  - 04/19/2017
- **100% CD SUBMISSION**
  - 05/26/2017
- **ISSUED AS PER ENERGY COMMENTS**
  - 02/17/2017
  - 04/20/2017
  - 06/02/2017
  - 06/08/2017

**Project Parameters:**

- **Area of Street Wall:**
  - 212-689-5389
  - 212-615-3600
  - 212-687-9888
  - 212-689-5389
  - 212-687-9888
- **Site Plan**
  - 32'
- **Building Street Frontage:**
  - 50%: 219 SF
- **Max 50%:** 219 SF
- **Required 50%:** 219 SF
- **85' STREET WALL CONTINUITY**
  - 219 SF
  - 50% of front line
  - 219 SF
  - 50% of front line
- **Site Plan**
  - 32'
- **BUILDING STREET FRONTAGE:**
  - 32'
- **MAXIMUM LOBBY SPACE:**
  - 212-615-3600
  - 212-687-9888
  - 212-689-5389
  - 212-687-9888
- **20% MAXIMUM RECESS:**
  - 529 SF

**Key Plan**

- **Subcellar:**
  - 16A10
- **Project:** 158 SF
- **Proposed Recesses:**
  - 158 SF (5.9%)
  - 20% MAXIMUM RECESS: 529 SF
- **Recesses at Ground Floor:**
  - 158 SF (5.9%)
<table>
<thead>
<tr>
<th>Area</th>
<th>Type</th>
<th>Location</th>
<th>Area</th>
<th>Type</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st Floor</td>
<td>1</td>
<td>12th Avenue</td>
<td>2nd Floor</td>
<td>1</td>
<td>12th Avenue</td>
</tr>
<tr>
<td>2nd Floor</td>
<td>1</td>
<td>12th Avenue</td>
<td>3rd Floor</td>
<td>1</td>
<td>12th Avenue</td>
</tr>
<tr>
<td>3rd Floor</td>
<td>1</td>
<td>12th Avenue</td>
<td>4th Floor</td>
<td>1</td>
<td>12th Avenue</td>
</tr>
<tr>
<td>4th Floor</td>
<td>1</td>
<td>12th Avenue</td>
<td>5th Floor</td>
<td>1</td>
<td>12th Avenue</td>
</tr>
<tr>
<td>5th Floor</td>
<td>1</td>
<td>12th Avenue</td>
<td>6th Floor</td>
<td>1</td>
<td>12th Avenue</td>
</tr>
<tr>
<td>6th Floor</td>
<td>1</td>
<td>12th Avenue</td>
<td>7th Floor</td>
<td>1</td>
<td>12th Avenue</td>
</tr>
<tr>
<td>7th Floor</td>
<td>1</td>
<td>12th Avenue</td>
<td>8th Floor</td>
<td>1</td>
<td>12th Avenue</td>
</tr>
<tr>
<td>8th Floor</td>
<td>1</td>
<td>12th Avenue</td>
<td>9th Floor</td>
<td>1</td>
<td>12th Avenue</td>
</tr>
<tr>
<td>9th Floor</td>
<td>1</td>
<td>12th Avenue</td>
<td>10th Floor</td>
<td>1</td>
<td>12th Avenue</td>
</tr>
<tr>
<td>10th Floor</td>
<td>1</td>
<td>12th Avenue</td>
<td>11th Floor</td>
<td>1</td>
<td>12th Avenue</td>
</tr>
<tr>
<td>11th Floor</td>
<td>1</td>
<td>12th Avenue</td>
<td>12th Floor</td>
<td>1</td>
<td>12th Avenue</td>
</tr>
</tbody>
</table>

**Gross Area Calculations:**

- **1st Floor:** 262.0 sq ft
- **2nd Floor:** 242.0 sq ft
- **3rd Floor:** 262.0 sq ft
- **4th Floor:** 242.0 sq ft
- **5th Floor:** 262.0 sq ft
- **6th Floor:** 242.0 sq ft
- **7th Floor:** 262.0 sq ft
- **8th Floor:** 242.0 sq ft
- **9th Floor:** 262.0 sq ft
- **10th Floor:** 242.0 sq ft
- **11th Floor:** 262.0 sq ft
- **12th Floor:** 242.0 sq ft

**Total Gross Area:** 3,089.4 sq ft

**Residential Area Calculations:**

- **1st Floor:** 38.5 sq ft
- **2nd Floor:** 38.5 sq ft
- **3rd Floor:** 38.5 sq ft
- **4th Floor:** 38.5 sq ft
- **5th Floor:** 38.5 sq ft
- **6th Floor:** 38.5 sq ft
- **7th Floor:** 38.5 sq ft
- **8th Floor:** 38.5 sq ft
- **9th Floor:** 38.5 sq ft
- **10th Floor:** 38.5 sq ft
- **11th Floor:** 38.5 sq ft
- **12th Floor:** 38.5 sq ft

**Total Residential Area:** 491.0 sq ft

**Commercial Area Calculations:**

- **1st Floor:** 214.0 sq ft
- **2nd Floor:** 214.0 sq ft
- **3rd Floor:** 214.0 sq ft
- **4th Floor:** 214.0 sq ft
- **5th Floor:** 214.0 sq ft
- **6th Floor:** 214.0 sq ft
- **7th Floor:** 214.0 sq ft
- **8th Floor:** 214.0 sq ft
- **9th Floor:** 214.0 sq ft
- **10th Floor:** 214.0 sq ft
- **11th Floor:** 214.0 sq ft
- **12th Floor:** 214.0 sq ft

**Total Commercial Area:** 2,575.0 sq ft

**Shared Area Calculations:**

- **1st Floor:** 3.4 sq ft
- **2nd Floor:** 3.4 sq ft
- **3rd Floor:** 3.4 sq ft
- **4th Floor:** 3.4 sq ft
- **5th Floor:** 3.4 sq ft
- **6th Floor:** 3.4 sq ft
- **7th Floor:** 3.4 sq ft
- **8th Floor:** 3.4 sq ft
- **9th Floor:** 3.4 sq ft
- **10th Floor:** 3.4 sq ft
- **11th Floor:** 3.4 sq ft
- **12th Floor:** 3.4 sq ft

**Total Shared Area:** 40.8 sq ft

**Total Area Calculations:**

- **Net Area:** 3,089.4 sq ft
- **Residential Area:** 491.0 sq ft
- **Commercial Area:** 2,575.0 sq ft
- **Shared Area:** 40.8 sq ft

**Total Area:** 3,089.4 sq ft

**Notes:**

- All areas are calculated based on the respective floor plans and deductions.
- The gross area includes all accessible areas.
- The residential area is dedicated to living spaces.
- The commercial area is dedicated to office or business spaces.
- The shared area includes common spaces such as hallways and stairwells.

**Revision Dates:**

- 03/03/2017
- 04/19/2017
- 04/20/2017
- 06/02/2017

**Scale:** 1/4" = 1'-0"
### INSULATED WALL FURRING

**2" THICK SOUND ATTENUATION BLANKET**

2 layers of 5/8" gyp. bd. Type "X" each side of 25 gauge 2 1/2" steel studs with acoustical caulk and tape on steel runner.

Continuous acoustical 5/8" gyp. bd. over 1 5/8" concrete wall.

4'-0" A.F.F. U.O.N.

20 ga. 4" steel C-H studs @ 24" O.C.

5 1" gyp. bd.

1 layer 5/8" gyp. bd. Type "X".

### STUD PARTITION TYPES

**CENTERLINE OF PARTITION**

- 1" gyp. bd.
- 3 1/2" batt insulation between studs.
- Sound cushion and acoustical caulk and tape on steel runner.

- 1 HR classification level 1 gyp. bd.
- 2 1/2" steel stud 4" sides of partition, U.O.N.
- Vidaris tape at bottom of slab.
- Window (at north facade only).
- Exhaust duct slab opening.

**PARTITIONS BETWEEN APARTMENTS, STAIRS, AND PUBLIC CORRIDORS TO BE AS FOLLOWS:**

- Insulated wall furring to be as follows:
  - One layer of 5/8" gyp. bd. on 2 1/2" steel studs @ 24" O.C. with 3 1/2" batt insulation between studs.
  - As noted above with 6" steel studs @ 16" O.C.
  - As noted above with 4" steel studs @ 24" O.C.

**MAXIMUM CLEAR HEIGHTS ALLOWED FOR:**

- 12" high @ 36" O.C. max vertically.
- 24" O.C. for sound rated partitions.
- 16" O.C. for non-sound rated partitions.

**NOTES:**

- Multiple layers of gypsum board are to be applied with joints staggered at least 16" (indicated with "DL").
- Piercing of sound rated partitions (ducts, pipes, conduits, etc.) are to be acoustically sealed with acoustical caulk and tape.
- Piping and conduits shall be separated from sound critical partitions.

**DIAMETERS:**

- 4", 6", 8", 10", or 12" glazed concrete block.
- 4" 100% solid concrete block (UL#906 & UL#618 = 2 hour 4" block, 90# density).
- As noted above with 6" steel studs @ 16" O.C.
NOTES:

FOR FURTHER INFORMATION.

SEE INTERIOR DESIGN (ID) DRAWINGS FOR FURTHER INFORMATION.

NOTUSED

HARDWARE SET:

TYPE:

SIZE:

MATERIAL:

SADDLE:

BUCK:

LOCATION:

REMARKS:

NOTES:

NOTUSED
121191441
1 4TH FLOOR TERRACE

SCALE 5'/0" 07/04/03

2 4TH-7TH FLOOR PLAN

SCALE 5'/0" 02/04/03

3 8TH-11TH FLOOR PLAN

SCALE 5'/0" 02/04/03

KEY PLAN

NOTES:
PAMAPET WALL SECTION DETAIL AT MECHANICAL FLOOR
Exterior Details

Dwg Title: Seal & Signature:
Date: Project #:
Scale: Dwg No.

DOB Stamps & Signatures:

Key Plan

Project:
Number:
Date:
Revision:

Notes:

Client:

11 Broadway
17th Floor
New York, NY 10004
T.  212 213 8007

Architect:

DOB Submission
12/22/2016

SoLow Reality & Development Company, LLC
9 West 57th Street, 45th Floor
New York, NY 10019

SOLO

9 W
57

11 Broadway, Suite 1532
New York, NY 10004
(212) 213-8007

Two PennsylvanIa Plaza, Third Floor
New York, NY 10121
212-615-3600

Consentini Associates
Whitehall Interiors

One Pen Plaza
250 West 34th Street, 2nd Floor
New York, NY 10119
212-687-9888

Vidaris
Building Envelope Consultant:

05/26/ 2017

16A10

02/17/2017

02

60% CD Submission (Not for Bid)

03/03/2017

03

Issued as Per Energy Comments

03/17/2017

05

80% CD Submission

04/03/2017

06

DOB Submission

04/05/2017

07

Issued as Per Energy Comments

04/19/2017

08

90% CD Submission

04/20/2017

09

DOB Submission

05/10/2017

10

DOB Submission

05/26/2017

11

100% CD Submission

06/02/2017

12

DOB Submission/Foundation

06/02/2017

13

Issued as Per Energy Comments

06/08/2017

14

DOB Submission

06/05/2017

15

DOB Submission

06/12/2017

16

Issued as Per Energy Comments

06/18/2017

17

DOB Submission

07/06/2017

18
1. Kitchen outlets - receptacle switches to be 4' above finish floor, U.O.N.
2. All receptacles mounted above the counter in the kitchen shall be GFI receptacles.
3. All back splashes to sit on top of counter tops.
4. Glass joints between counter tops and wall to be fitted and grouted.
5. See plan for orientation of kitchens, TYP.
6. See interior designer drawings for additional information.
7. See MEP drawings for additional information.
8. See reflected ceilings for all light locations.
9. Prior to installation, contractor to verify that all cabinets, drawers and appliance doors open for cleaning.
10. All fasteners should be sunk, plugged and uniformly spaced.
11. All visible portions of cabinets to have finished edgework.
12. Provide block/grounds support in partitions as required.

**Notes:**
- Kitchen shall be GFI receptacles.
- All receptacles mounted above the counter in the kitchen.
- All cabinets, drawers and appliance doors open for cleaning.
- Provide block/grounds support in partitions as required.

**Plan Details:**
- Typical Kitchen Cross Section (Handicap Adaptable)
- Typical Outlet Locations
- Typical Heater Location
- Typical Base Cabinet at Sink and Removable Cabinets
- Typical Cleat Support Detail at All Ranges
- Kitchen Pass Thru Countertop
- Removable Base Cabinet at Sink Axonometric View
- Removable Shelf

**Legend:**
- Cutout - Elevation
- Cutout - Plan
- Ground Fault Circuit Interrupter
- Phone Jack - Elevation
- Phone Jack - Plan
- Start Point of Tile
KITCHEN ELEVATION
SCALE: 1/2"=1'-0"

KITCHEN PLAN- TYPE 1 (4-11TH FL)
SCALE: 1/2"=1'-0"

KITCHEN PLAN- TYPE 2 (12-17TH FL)
SCALE: 1/2"=1'-0"

KITCHEN PLAN- TYPE 3 (18TH FL)
SCALE: 1/2"=1'-0"
ENERGY CODE COMPLIANCE

1. AIR LEAKAGE OF WINDOW / DOOR ASSEMBLIES SHALL BE DETERMINED IN ACCORDANCE WITH AAMA/WDMA/CSA 101/I.S.2/A440, OR NFRC 400 BY AN ACCREDITED, INDEPENDENT LABORATORY, AND LABELED AND CERTIFIED BY THE MANUFACTURERS AND SHALL NOT EXCEED 0.06 CFM PER SQUARE FOOT, OPERABLE WINDOWS SHALL NOT EXCEED 0.1 CFM PER FOOT, AND SWING DOORS NOT MORE THAN 0.3 CFM PER FOOT.

2. CURTAIN WALL, STOREFRONT GLAZING AND ENTRANCES:
   - FIXED ELEMENT: AIR LEAKAGE THROUGH FIXED LITE ELEMENTS OF THE GLAZED CURTAIN WALL SHALL NOT EXCEED 0.06 CFM PER SQUARE FOOT OF FIXED WALL AREA WHEN TESTED IN ACCORDANCE WITH ASTM E 283 AT A POSITIVE AND NEGATIVE TEST PRESSURE DIFFERENTIAL TO 6.24 PSF.
   - SWINGING ENTRANCE DOORS: AIR INFILTRATION PER LINEAR FOOT OF PERIMETER CRACK OF NOT MORE THAN 0.50 CFM FOR SINGLE DOORS AND 1.0 CFM AT THE MEETING STILE OF PAIRS OF DOORS AS PER ASTM E 283 AT PRESSURE DIFFERENTIAL OF 1.56 PSF.

3. PERFORMANCE CRITERIA PER WALL TYPE SCHEDULED & EN-001.
   - Type V.1 R Window > 6'-0": U-Factor 0.438, SHGC 0.32
   - Type V.2 R Window 3' < W < 6': U-Factor 0.488, SHGC 0.32
   - Type V.3 R Window < 3'-0": U-Factor 0.628, SHGC 0.32
   - Type V.1 NR Storefront Window: U-Factor 0.36, SHGC 0.4
   - Type V.2 NR Storefront Steel Window: U-Factor 0.52, SHGC 0.4
   - Storefront Swing Entrance Door: U-Factor 0.8, SHGC 0.70
   - Curtain Wall Opaque Portion: U-Factor: 0.042 (max.)

REQUIRED INSPECTIONS PER ENERGY CODE:

1. AIR LEAKAGE OF WINDOW / DOOR ASSEMBLIES
2. CURTAIN WALL, STOREFRONT GLAZING AND ENTRANCES
3. PERFORMANCE CRITERIA PER WALL TYPE SCHEDULED & EN-001.
### Mechanical Symbol List

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Indoor Air</td>
</tr>
<tr>
<td>B</td>
<td>Overhead Air</td>
</tr>
<tr>
<td>C</td>
<td>Diffuser Air</td>
</tr>
<tr>
<td>D</td>
<td>Supply Air</td>
</tr>
<tr>
<td>E</td>
<td>Return Air</td>
</tr>
<tr>
<td>F</td>
<td>Humidifier Air</td>
</tr>
<tr>
<td>G</td>
<td>Vent Air</td>
</tr>
<tr>
<td>H</td>
<td>Exhaust Air</td>
</tr>
<tr>
<td>I</td>
<td>Test Air</td>
</tr>
<tr>
<td>J</td>
<td>Fan Air</td>
</tr>
<tr>
<td>K</td>
<td>Temperature Sensor</td>
</tr>
<tr>
<td>L</td>
<td>Humidity Sensor</td>
</tr>
<tr>
<td>M</td>
<td>CO2 Sensor</td>
</tr>
<tr>
<td>N</td>
<td>Pressure Sensor</td>
</tr>
<tr>
<td>O</td>
<td>Flow Sensor</td>
</tr>
<tr>
<td>P</td>
<td>Temperature Control</td>
</tr>
<tr>
<td>Q</td>
<td>Humidity Control</td>
</tr>
<tr>
<td>R</td>
<td>CO2 Control</td>
</tr>
<tr>
<td>S</td>
<td>Pressure Control</td>
</tr>
<tr>
<td>T</td>
<td>Flow Control</td>
</tr>
<tr>
<td>U</td>
<td>OCV Control</td>
</tr>
<tr>
<td>V</td>
<td>ECV Control</td>
</tr>
<tr>
<td>W</td>
<td>Fan Vane</td>
</tr>
<tr>
<td>X</td>
<td>Fan Position</td>
</tr>
<tr>
<td>Y</td>
<td>Fan Direction</td>
</tr>
<tr>
<td>Z</td>
<td>Fan Direction</td>
</tr>
</tbody>
</table>

### Mechanical Notes

1. Alterations or additions to this engineering document by an unlicensed person is a violation of Chapter 16, State Education Law.

### Issuance Details

- **11/22/2016**: Issued for Progress
- **12/22/2016**: Issued for Filing
- **02/17/2017**: 60% CD Submission (Not For Bid)
- **02/17/2017**: Issued as per Energy Comments
- **03/03/2017**: DOB Submission
- **03/17/2017**: 80% CD Submission
- **04/19/2017**: 90% CD Submission
- **05/26/2017**: 100% CD Submission
- **07/03/2017**: Issued per Energy Comments
APARTMENT TERRACE:
249.2 SQ. FT.
18" x 24"
3

30" DEEP BEAM
4

4TH - 7TH FLOOR PLAN
1/4"=1'-0"

SCALE:

WINE
DW
MW

KEY PLAN

M-104.00

303.10.49

DATE:
PROJECT #:
MECHANICAL NOTES:

1. REFER TO STRUCTURAL DRAWINGS FOR STRUCTURAL FRAMING AND PIPE SUPPORT DETAILS.
2. ALL PIPING SHALL BE SUPPORTED INDEPENDENTLY SO THAT EQUIPMENT IS NOT STRESSED BY PIPING WEIGHT OR EXPANSION.
3. CONTRACTOR SHALL PROVIDE DETAILED DESIGN FOR ALL PIPE HANGERS AND EQUIPMENT SUPPORTS, IMPOSED LOADS, AND METHODS OF ATTACHMENT TO STRUCTURE.
4. COORDINATE ROOF SLAB OPENING FOR ALL DUCTWORK AND PIPING PENETRATIONS.
5. REFER TO MECHANICAL SPECIFICATIONS FOR MAXIMUM ALLOWABLE SPACING PERMITTED FOR SUPPORTING PIPING.

MECHANICAL NOTES:

REFER TO MECHANICAL NOTES FOR LOCALLY APPLICABLE REQUIREMENTS.

1. REFER TO STRUCTURAL DRAWINGS FOR STRUCTURAL FRAMING AND PIPE SUPPORT DETAILS.
2. ALL PIPING SHALL BE SUPPORTED INDEPENDENTLY SO THAT EQUIPMENT IS NOT STRESSED BY PIPING WEIGHT OR EXPANSION.
3. CONTRACTOR SHALL PROVIDE DETAILED DESIGN FOR ALL PIPE HANGERS AND EQUIPMENT SUPPORTS, IMPOSED LOADS, AND METHODS OF ATTACHMENT TO STRUCTURE.
4. COORDINATE ROOF SLAB OPENING FOR ALL DUCTWORK AND PIPING PENETRATIONS.
5. REFER TO MECHANICAL SPECIFICATIONS FOR MAXIMUM ALLOWABLE SPACING PERMITTED FOR SUPPORTING PIPING.

MECHANICAL NOTES:

REFER TO MECHANICAL NOTES FOR LOCALLY APPLICABLE REQUIREMENTS.
MECHANICAL NOTES:

1. The installation of the boiler flue shall be in accordance with:
   - NFPA 211
   - 2016 NYC MECHANICAL CODE
   - 2016 NYC FUEL GAS CODE

2. Any part of the existing building, structure, infrastructure, etc. that is damaged or altered shall be restored to its original condition.

3. A drain shall be provided at base of boiler flue to remove rainwater and condensation. The drain shall be a minimum of 1 inch and equipped with a P-trap.

4. The installation of the boiler flue shall be in accordance with:
   - NFPA 37

5. The contractor shall engage the equipment manufacturer to provide equipment manufacturer for actual requirements.

6. The contractor shall coordinate exact routing, length, and configuration with exact flue routing indicated on drawing is diagrammatic.

7. The flue shall be supported and spaced in accordance with their listing as well as the manufacturer's weight of materials employed. The flue shall be supported for the design and shall be applied for a length of time sufficient to permit inspection of column as measured at the base of the stack, shall be applied. The test shall be tightly closed and a pressure equivalent of 0.5 inches of water shall be maintained. If smoke appears at the stack opening on the roof, such opening shall be sealed with at least two smoke machines, smoke bombs, or other equivalent method.

8. As the flue shall be filled with a thick penetrating smoke produced by one or more smoke machines, smoke bombs, or other equivalent method.

9. The smoke test shall be conducted in the presence of and under the direction of a licensed professional engineer retained by the owner to provide the required special inspections and tests. The first test shall be performed to verify the integrity of the installation and determine the tightness of the flue construction. A smoke test shall be repeated until the results are satisfactory. Any evidence of leakage or other defects shall be corrected before the test is repeated. Upon failure of the smoke test, any subsequent tests shall be at the owner's expense.

10. Methods of attachment to building structure. The structural engineer shall review all imposed loads and requirements. Structural engineer shall review all loads and requirements.

11. Equipment of the type indicated on the plans. Certified licensed rigging company that is experienced in rigging indicated on the plans. This work shall be performed by an insured, coordinate rigging, hoisting, and bracing to install the equipment as indicated on the plans.

12. The installation of the equipment shall provide the required special inspections and tests. The first test shall be performed to verify the integrity of the installation and determine the tightness of the flue construction. A smoke test shall be repeated until the results are satisfactory. Any evidence of leakage or other defects shall be corrected before the test is repeated. Upon failure of the smoke test, any subsequent tests shall be at the owner's expense.
### FAN COIL UNIT SCHEDULE

<table>
<thead>
<tr>
<th>UNIT NO</th>
<th>LOCATION</th>
<th>SERVICE</th>
<th>TYPE</th>
<th>MODEL NUMBER</th>
<th>DIMENSIONS (L x W x H)</th>
<th>UNIT FLOW (GPM)</th>
<th>FAN INPUT (CFM)</th>
<th>MOTOR DATA</th>
<th>DESIGN DUTY</th>
<th>SCHEDULE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### BOILER SCHEDULE

<table>
<thead>
<tr>
<th>UNIT NO</th>
<th>LOCATION</th>
<th>SERVICE</th>
<th>TYPE</th>
<th>MODEL NUMBER</th>
<th>DIMENSIONS (L x W x H)</th>
<th>CAPACITY</th>
<th>WATER FLOW</th>
<th>FUEL DATA</th>
<th>ELECTRIC</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### HEAT EXCHANGER SCHEDULE

<table>
<thead>
<tr>
<th>UNIT NO</th>
<th>LOCATION</th>
<th>SERVICE</th>
<th>TYPE</th>
<th>MODEL NUMBER</th>
<th>DIMENSIONS (L x W x H)</th>
<th>HEAT TRANSFER AREA</th>
<th>HOT SIDE</th>
<th>COLD SIDE</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### PUMP SCHEDULE

<table>
<thead>
<tr>
<th>UNIT NO</th>
<th>LOCATION</th>
<th>SERVICE</th>
<th>TYPE</th>
<th>MODEL NUMBER</th>
<th>DIMENSIONS (L x W x H)</th>
<th>FLUID</th>
<th>CONNECTORS</th>
<th>DESIGN DUTY</th>
<th>MOTOR DATA</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Heat Recovery Unit Schedule (Part 1)

<table>
<thead>
<tr>
<th>UNIT #</th>
<th>LOCATION</th>
<th>SERVICE</th>
<th>TYPE</th>
<th>MODEL NUMBER</th>
<th>IN SERVICE</th>
<th>ELECTRICAL</th>
<th>ENERGY RECOVERY</th>
<th>UNIT ELECTRICAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Heat Recovery Unit Schedule (Part 2)

<table>
<thead>
<tr>
<th>UNIT #</th>
<th>LOCATION</th>
<th>SERVICE</th>
<th>TYPE</th>
<th>MODEL NUMBER</th>
<th>IN SERVICE</th>
<th>ELECTRICAL</th>
<th>ENERGY RECOVERY</th>
<th>UNIT ELECTRICAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Chiller Schedule

<table>
<thead>
<tr>
<th>UNIT #</th>
<th>LOCATION</th>
<th>SERVICE</th>
<th>TYPE</th>
<th>MODEL NUMBER</th>
<th>CAPACITY</th>
<th>WATER FLOW</th>
<th>ENERGY EFFICIENCY</th>
<th>EVAPORATOR DATA</th>
<th>COMPRESSOR DATA</th>
<th>ELECTRICAL DATA</th>
<th>CHILLED WATER</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Heat Pump Schedule

<table>
<thead>
<tr>
<th>UNIT #</th>
<th>LOCATION</th>
<th>SERVICE</th>
<th>TYPE</th>
<th>MODEL NUMBER</th>
<th>AIR FLOW</th>
<th>COOLING DATA</th>
<th>TOTAL AIRFLOW CAPACITY</th>
<th>UNIT ELECTRICAL</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Outdoor Condensing Unit Schedule

<table>
<thead>
<tr>
<th>UNIT #</th>
<th>LOCATION</th>
<th>SERVICE</th>
<th>TYPE</th>
<th>MODEL NUMBER</th>
<th>HP FLOW</th>
<th>COOLING DATA</th>
<th>HEATING DATA</th>
<th>COMPRESSION DATA</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# CABINET UNIT HEATER SCHEDULE

<table>
<thead>
<tr>
<th>UNIT</th>
<th>LOCATION</th>
<th>SERVICE</th>
<th>TYPE</th>
<th>MODEL NUMBER</th>
<th>BLOWER TYPE</th>
<th>BLOWER SIZE</th>
<th>AIR FLOW (CFM)</th>
<th>PRESSURE</th>
<th>MOTOR DATA</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

# ELECTRIC UNIT HEATER SCHEDULE

<table>
<thead>
<tr>
<th>UNIT</th>
<th>LOCATION</th>
<th>SERVICE</th>
<th>TYPE</th>
<th>MODEL NUMBER</th>
<th>BLOWER TYPE</th>
<th>BLOWER SIZE</th>
<th>AIR FLOW (CFM)</th>
<th>PRESSURE</th>
<th>MOTOR DATA</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

# EXHAUST FAN SCHEDULE

<table>
<thead>
<tr>
<th>UNIT</th>
<th>LOCATION</th>
<th>SERVICE</th>
<th>TYPE</th>
<th>MODEL NUMBER</th>
<th>BLOWER TYPE</th>
<th>BLOWER SIZE</th>
<th>EXHAUST (CFM)</th>
<th>MOTOR DATA</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

# POST FIRE SMOKE PURGE FAN SCHEDULE

<table>
<thead>
<tr>
<th>UNIT</th>
<th>LOCATION</th>
<th>SERVICE</th>
<th>TYPE</th>
<th>MODEL NUMBER</th>
<th>BLOWER TYPE</th>
<th>BLOWER SIZE</th>
<th>EXHAUST (CFM)</th>
<th>MOTOR DATA</th>
<th>UNIT HEIGHT (FT)</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Column</td>
<td>X Coord</td>
<td>Y Coord</td>
<td>Length</td>
<td>Width</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>--------</td>
<td>---------</td>
<td>---------</td>
<td>--------</td>
<td>-------</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Column 1</td>
<td>100</td>
<td>50</td>
<td>10</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Column 2</td>
<td>150</td>
<td>30</td>
<td>20</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Column 3</td>
<td>200</td>
<td>10</td>
<td>25</td>
<td>15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTES:**
- Column 1 is located at X=100, Y=50 with dimensions 10x5.
- Column 2 is located at X=150, Y=30 with dimensions 20x10.
- Column 3 is located at X=200, Y=10 with dimensions 25x15.
AS NOTED

TYPICAL SUPERSTRUCTURE

DETAILS 3

DOB SUBMISSION

12/21/2016

60% CD

02/17/2017

ISSUED AS PER ENERGY COMMENTS

02/17/2017

03/03/2017

DOB SUBMISSION

03/17/2017

80% CD

04/19/2017

90% CD

05/26/2017

100% CD