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<td>S-921</td>
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**Project Information:**

- **Owner/Developer:**
  - Address: 11 West 42nd Street, New York, NY 10036
  - Phone: (212) 977-6500
  - Fax: (212) 956-2526

- **Design Architect:**
  - Kohn Pedersen Fox Associates PC
  - Address: 805 Third Avenue, New York, NY 10022
  - Phone: (212) 979-8400
  - Fax: (212) 979-8387

- **Architect of Record:**
  - EXTELL DEVELOPMENT
  - Address: 1359 Broadway, 14th Floor, New York, NY 10018
  - Phone: (212) 979-8400
  - Fax: (212) 979-8387

- **Interior Designer:**
  - SLCE Architects, LLP
  - Address: 321 19th Street, Suite 1040, New York, NY 10271
  - Phone: (212) 431-3609
  - Fax: (212) 941-1513

- **Lighting Designer:**
  - CoMoS
  - Address: 137 East 25th Street, 11th Floor, New York, NY 10010
  - Phone: (212) 674-4488
  - Fax: (212) 674-4025

- **Facade Maintenance:**
  - Address: 166 Ames Street, Hackensack, NJ 07601
  - Phone: (201) 820-2801
  - Fax: (201) 820-2804

- **MEP Engineers:**
  - Structural Engineers:
  - Address: 165 Broadway, 22nd Floor, New York, NY 10006
  - Phone: (212) 354-5656
  - Fax: (212) 354-5657

- **Landscape Architect:**
  - Mathews Nielsen Landscape Architects, P.C.
  - Address: 62 West 45th Street, 11th Floor, New York, NY 10036
  - Phone: (212) 431-3609
  - Fax: (212) 941-1513

- **Facade Maintenance:**
  - Address: 166 Ames Street, Hackensack, NJ 07601
  - Phone: (201) 820-2801
  - Fax: (201) 820-2804

- **Elevator:**
  - Delivering Vertical Transportation Solutions...Worldwide
  - Phone: (212) 979-8400
  - Fax: (212) 979-8387
APPROVED
Under Directive 2 of 1975
Date:
Clara Gomez
03/23/2017:

WILLOUGHBY STREET
ALBEE SQUARE WEST (60' - NARROW STREET) A.K.A. GOLD STREET
SCALE: 1" = 40'

25.00'

( ALL ELEVATIONS ABOVE ADJUSTED BASE PLANE:  49.30' )

11.29'

9.29'

(75' - NARROW STREET)

WILLOUGHBY STREET

114.08'

107.54'

6.54'

6.54'

76.04'

31.50'

3.17'

15.00'

HEIGHT, SETBACK & STREETWALL KEY PLAN

T.O.S. EL. 718' - 0"

T.O.S. EL. 134' - 3"

T.O.S. EL. 134' - 3"

FLATBUSH AVENUE EXTENSION (127'-6" - WIDE STREET)

PROVIDED:

TOTAL = 41,194.06 SF (COMPLIES)

TOWER 3 (NEW BUILDING) = 11,000.06 SF

TOWER 1 & 2 (EXISTING) = 30,194.00 SF

TOWER LOT COVERAGE ABOVE 150'-0"

LEGEND:

SCALE: 1" = 40'

FLEET STREET

WILLOUGHBY ST.

MINIMUM 60' STREET WALL

3

84'-11"

" (PROPOSED HEIGHT BEFORE SETBACK)

85'-0" (MAX. HEIGHT BEFORE SETBACK)

10'-0"

BUILDING SECTION - A

13.58'

SUB-CELLAR

CELLAR

10

12

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PHASE 3

PHASE 2

BUILDING SECTION - B

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41

11

21

31

PHASE 3

W I L L O U G H B Y     S T .

695'-10 1/2"
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Revision: 2014-34

NORTH ARROW

No: Date:

PROJECT: CITY POINT - PHASE 3
11 WEST 42ND STREET
NEW YORK, NY 10036
TEL.: (212) 977-6500
FAX: (212) 956-2526
DESIGN ARCHITECT: Kohn Pedersen Fox Associates PC
AKF 805 THIRD AVENUE
NEW YORK, NY 10022
EXTELL DEVELOPMENT
ARCHITECT OF RECORD: 1359 BROADWAY, 14TH FLOOR
NEW YORK, NY 10018
TEL.: (212) 979-8400
FAX: (212) 979-8387
LANDSCAPE ARCHITECT: Mathews Nielsen Landscape Architects, P.C.
120 Broadway, Suite 1040
New York, NY 10271
Tel (212) 431 3609
Fax (212) 941 1513
www.mnlandscape.com

ELEVATOR: Delivering Vertical Transportation Solutions...Worldwide

LIGHTING DESIGNER: COMO
COOLEY MONATO STUDIO
137 EAST 25TH STREET, 11TH FLOOR
NEW YORK, NY 10010
TEL.: (212) 674-4488
FAX.: (212) 674-4025

INERIOR DESIGNER: SLCE Architects, LLP

KATHERINE KATHERINE Newman Design International Limited
144 Davenport Road
Toronto, ON M5R 1J2 Canada
T. 416.961.5675  F. 416.961.6491
PROJECT:

OWNER/DEVELOPER:

M E P ENGINEERS:

STRUCTURAL ENGINEERS:

ONE LIBERTY PLAZA, 165 BROADWAY, 22ND FLOOR
NEW YORK, NY 10006
TEL.: (212) 354-5656
FAX.: (212) 354-5657

CITY POINT - PHASE 3
11 WEST 42ND STREET
NEW YORK, NY  10036
TEL.: (212) 977-6500
FAX: (212) 956-2526

DESIGN ARCHITECT:
Kohn Pedersen Fox Associates PC
AKF
805 THIRD AVENUE
NEW YORK, NY 10022

ARCHITECT OF RECORD:

LANDSCAPE ARCHITECT:
Mathews Nielsen Landscape Architects, P.C.
120 Broadway, Suite 1040
New York, NY 10271
Tel (212) 431 3609
Fax (212) 941 1513
www.mnlandscape.com

FACADE MAINTENANCE:
166 Ames Street, Hackensack, NJ 07601
Ph. (201) 820-2801 Fax: (201) 820-2804

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137 EAST 25TH STREET, 11TH FLOOR
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FAX.: (212) 674-4025

NEWMAN DESIGN
Katherine Newman Design International Limited
144 Davenport Road
Toronto, ON  M5R 1J2 Canada
T. 416.961.5675  F. 416.961.6491

INERIOR DESIGNER:
LANGAN

GEOTECHNICAL ENGINEER:
Langan Engineering, Environmental Surveying and Landscape Architecture, D.P.C.
300 KIMBALL DRIVE, 4TH FLOOR
PARSIPPANY, NJ 07054-2172
TEL.:  (973) 560-4900
FAX.: (973) 560-4901

SLCE Architects, LLP

GENERAL NOTES:
1. FIXTURES IN PUBLIC CORRIDORS AND ELEVATOR LOBBIES TO BE ON
   BI-LEVEL CONTROL, WITH OCCUPANCY SENSOR PER CODE.
2. PUBLIC LOBBY, AMENITY AREAS TO BE CONTROLLED BY MULTI SCENE
   CONTROL SYSTEMS (AS PER CODE / OWNER'S DIRECTION)
3. ENCLOSED SPACES TO HAVE PROPER SHUT OFF CONTROL(VACANCY
   SENSOR OR TIME CLOCK) AS PER CODE AND OWNER'S DIRECTION
4. EMERGENCY LIGHTING PER ELECTRICAL ENGINEER PER CODE.
19TH - 29TH FLOOR TO FLOOR HEIGHT

HUNG CEILING

SEE CEILING PLAN

FINISHED FLOOR

TOP OF CONC. SLAB

TOP OF CONC. SLAB

LINK BEAM RUNNING ALONG EAST-WEST

LINK BEAM RUNNING ALONG NORTH-SOUTH

GYPSUM BOARD CEILING AND SOFFIT HUNG CEILING

SPRINKLER HEAD

CEILING LEGEND:

SMOKE / CARBON MONOXIDE DETECTOR

CEILING ACCESS DOOR

SIDE WALL SPRINKLER HEAD

EXPOSED CONCRETE CEILING WITH KADEX CEILING FINISHES.

OPENING AT PARTITION ABOVE CEILING FOR RETURN AIR, SEE MECHANICAL DRAWING FOR REQUIRED SIZE OF OPENING

SWITCHED CEILING JUNCTION BOX

JUNCTION BOX FOR FUTURE WINDOW SHADES CONTROL
43RD - 50TH FLOOR REFLECTED CEILING PLAN

GENERAL NOTES:
1. FIXTURES IN PUBLIC CORRIDORS AND ELEVATOR LOBBIES TO BE ON BI-LEVEL CONTROL, WITH OCCUPANCY SENSOR PER CODE.
2. PUBLIC LOBBY, AMENITY AREAS TO BE CONTROLLED BY MULTI SCENE CONTROL SYSTEMS (AS PER CODE / OWNER'S DIRECTION)
3. ENCLOSED SPACES TO HAVE PROPER SHUT OFF CONTROL (VACANCY SENSOR OR TIME CLOCK) AS PER CODE AND OWNER'S DIRECTION
4. EMERGENCY LIGHTING PER ELECTRICAL ENGINEER PER CODE.
CITY POINT - PHASE 3
Kohn Pedersen Fox Associates PC

EN-100.00

Date:
Clara Gomez
03/23/2017:

APPROVED
Under Directive 2 of 1975

ENERGY CODE COMPLIANCE SHEET

COMPLIANCE WITH 2014 NYCECC:
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, ALL WORK UNDER THIS APPLICATION IS IN COMPLIANCE WITH THE 2014 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK CITY (2014 NYCECC), USING THE ASHRAE 90.1-2010 AS AMENDED BY APPENDIX A (LISTED IN NYCECC, C407.1).

COMMISSIONING:
COMMISSIONING OF THE BUILDING MECHANICAL SYSTEMS, SERVICE WATER HEATING SYSTEMS AND ELECTRICAL POWER AND LIGHTING SYSTEMS IS REQUIRED FOR THIS BUILDING, IN COMPLIANCE WITH 2014 NYCECC, SECTION C408.

05/02/16 DOB FILING
01/11/17 DOB RESUBMISSION
Under Directive 2 of 1975

Clara Gomez
03/23/2017:

APPROVED

Date:

03/23/2017:

APPROVED

Date:

03/23/2017:

APPROVED

Date:

03/23/2017:

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APPROVED

Date:

03/23/2017:
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<td>Fenetration values and product ratings (IA3), (IIA3)</td>
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**Statement of Responsibility for Energy Code Progress Inspections**

COMPLIANCE WITH 2014 NYCECC:

**TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, ALL WORK UNDER THIS APPLICATION IS IN COMPLIANCE WITH THE 2014 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK CITY (2014 NYCECC), USING THE ASHRAE 90.1-2010 AS AMENDED BY APPENDIX A (LISTED IN NYCECC, C407.1).**

COMMISSIONING:

**COMMISSIONING OF THE BUILDING MECHANICAL SYSTEMS, SERVICE WATER HEATING SYSTEMS AND ELECTRICAL POWER AND LIGHTING SYSTEMS IS REQUIRED FOR THIS BUILDING, IN COMPLIANCE WITH 2014 NYCECC, SECTION C408.**

Date: 03/23/2017

Clara Gomez
### LED: EXTERIOR PODIUM, CANOPY AND FAÇADE LIGHTING FIXTURE SCHEDULE

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<th>Units</th>
<th>Lamps</th>
<th>Ballast / Transformer</th>
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<td>Downlight (exterior rated)</td>
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<tr>
<td>Surface mounted 4&quot; long</td>
<td>Grazer (exterior rated)</td>
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### Notes:
- LAMP WATTAGE ONLY (BALLAST / TRANSFORMER / POWER SUPPLY DRAW NOT INCLUDED)
- FIXTURE LENGTHS ARE ESTIMATED AND SHOWN FOR REFERENCE ONLY - ACTUAL LENGTHS PER ARCHITECTURAL DRAWINGS AND FIELD CONDITIONS.
- ADDITIONAL SURGE PROTECTION IS RECOMMENDED FOR ALL NEW YORK SITES.
- LAMPS BALLAST / TRANSFORMER / POWER SUPPLY DRAW NOT INCLUDED
- CONTROL TYPE DIM TYPE NOTES REV. DATE QTY PER UNIT TYPE WATTS VOLTS TYPE
- 1. THIS DRAWING FOR LIGHTING INFORMATION ONLY.
- 2. FIXTURE LENGTHS ARE ESTIMATED AND SHOWN FOR REFERENCE ONLY - ACTUAL LENGTHS PER ARCHITECTURAL DRAWINGS AND FIELD CONDITIONS.
- 3. LAMP WATTAGE ONLY (BALLAST / TRANSFORMER / POWER SUPPLY DRAW NOT INCLUDED)
- 4. RECEPTACLES BY OTHERS.
- 5. ADDITIONAL SURGE PROTECTION IS RECOMMENDED FOR ALL NEW YORK SITES.
- 1. REMOTE EQUIPMENT REQUIREMENTS (POWER SUPPLIES, TRANSFORMERS, DRIVERS) ARE INDICATED ON CONTROL INTENT DRAWING.
- 2. EXACT LOCATION OF ALL CONTROL STATIONS TO BE INDICATED ON CONTROL INTENT DRAWING.
- 3. LAMP WATTAGE ONLY (BALLAST / TRANSFORMER / POWER SUPPLY DRAW NOT INCLUDED)
- 4. RECEPTACLES BY OTHERS.
- 5. ADDITIONAL SURGE PROTECTION IS RECOMMENDED FOR ALL NEW YORK SITES.

### LIGHTING CONTROL LEGEND

- Master Control Touch Keypad (Location TBD)
- 4 Scene Preset Keypad (Location TBD)

### Control Intent Notes:
- 1. ALL FIXTURES TO BE CONTROLLED BY TIME CLOCK & Control Intent Diagram
- 2. EXACT LOCATION OF ALL CONTROL STATIONS TO BE INDICATED ON CONTROL INTENT DRAWING.
- 3. LAMP WATTAGE ONLY (BALLAST / TRANSFORMER / POWER SUPPLY DRAW NOT INCLUDED)
- 4. RECEPTACLES BY OTHERS.
- 5. ADDITIONAL SURGE PROTECTION IS RECOMMENDED FOR ALL NEW YORK SITES.

### coordinated by Contract and Architect
- A. COORDINATED BY CONTRACTOR AND Architect
- B. ACCESSIBLE FOR MAINTENANCE;
- C. VENTILATED PER FIXTURE MANUFACTURER'S CONDITIONS.
- D. PROTECTED FROM WATER, OR RATED FOR ENVIRONMENT IF EXPOSED
- E. PROTECTED FROM WATER, OR RATED FOR...

### lighting circuits:

- 1. THIS DRAWING FOR LIGHTING INFORMATION ONLY.
- 2. FIXTURE LENGTHS ARE ESTIMATED AND SHOWN FOR REFERENCE ONLY - ACTUAL LENGTHS PER ARCHITECTURAL DRAWINGS AND FIELD CONDITIONS.
- 3. LAMP WATTAGE ONLY (BALLAST / TRANSFORMER / POWER SUPPLY DRAW NOT INCLUDED)
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- 5. ADDITIONAL SURGE PROTECTION IS RECOMMENDED FOR ALL NEW YORK SITES.

### Lighting Layout:

- Entrance Canopy
- Light Layout
- 3/4" = 1' 0"

### Project:

- City Point Phase 3
- 11 West 42nd Street
- 1359 Broadway, 14th Floor
- 137 East 25th Street, 11th Floor
- 166 Ames Street, Hackensack, NJ 07601
- Ph. (201) 820-2801 Fax: (201) 820-2804

### Architect of Record:

- KPFA Architects
- www.kpf.com
- 11 West 42nd Street
- New York, NY 10036
- Tel.: (212) 977-6500
- Fax.: (212) 979-8387
- New York, NY 10018

### MEP Engineers:

- SLCE
- www.slceinc.com
- 120 Broadway, Suite 1040
- New York, NY 10271
- Tel.: (212) 431 3609
- Fax.: (212) 941 1513
- New York, NY 10036

### Lighting Designer:

- Katherine Newman Design International Limited
- 166 Ames Street, Hackensack, NJ 07601
- Ph. (201) 820-2801 Fax: (201) 820-2804
- www.kn-design.com
- New York, NY 10018

### Coordination Notes:

- 1. THIS DRAWING FOR LIGHTING INFORMATION ONLY.
- 2. FIXTURE LENGTHS ARE ESTIMATED AND SHOWN FOR REFERENCE ONLY - ACTUAL LENGTHS PER ARCHITECTURAL DRAWINGS AND FIELD CONDITIONS.
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### Design.

- City Point Phase 3
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- 3. LAMP WATTAGE ONLY (BALLAST / TRANSFORMER / POWER SUPPLY DRAW NOT INCLUDED)
- 4. RECEPTACLES BY OTHERS.
- 5. ADDITIONAL SURGE PROTECTION IS RECOMMENDED FOR ALL NEW YORK SITES.
### LE1 Surface mounted cylinder downlight (exterior rated)
- Mounting: 
- Fixtures: N/A
- LED: 2
- Remote LED Driver: 2
- Dim: 0-10V

### LE2 Surface mounted linear light (exterior rated)
- Feet: N/A
- LED: 5
- Remote LED Driver: 5
- Dim: 0-10V

### LE3 Surface mounted square aperture downlight with Katherine Newman Design International Limited
- Approvals:
  - Directive 2 of 1975
- Date: 03/23/2017
- Control:
  - Type: 
  - Dim: 
  - Notes: 
  - Rev. Date:

### LE4 Surface mounted 4" long grazer (exterior rated)
- Feet: N/A
- LED: 10
- Remote LED Driver: 10
- Dim: NON-DIM

### LE5 Surface mounted linear grazer
- Feet: N/A
- LED: 9
- Remote LED Driver: 9
- Dim: NON-DIM

### Notes:
1. THIS DRAWING FOR LIGHTING INFORMATION ONLY.
2. FIXTURE LENGTHS ARE ESTIMATED AND SHOWN FOR REFERENCE ONLY - ACTUAL LENGTHS PER ARCHITECTURAL DRAWINGS AND FIELD NOT FOR CONSTRUCTION.
3. LAMP WATTAGE ONLY (BALLAST / TRANSFORMER / POWER SUPPLY DRAW NOT INCLUDED)
4. RECEPTACLES BY OTHERS.
5. RECOMMENDED FOR ALL NEW YORK SITES.

### LIGHTING CONTROL LEGEND
- Control Zone (Non-Dim)  
- Control Zone (Dim)  
- Master Control Touch Keypad (Location TBD)  
- 4 Scene Preset Keypad (Location TBD)

### DEPT OF BLDGS Job Number Scan Code
- 1ST - 2ND FLOOR
- 3RD-4TH FLOOR
- 1/16" = 1' 0"
Under Directive 2 of 1975

Date: 03/23/2017

APPROVED

ES152083887

LC2 Pool rated round aperture down light Each 1 LED 27 Per EE Integral LED driver 27 DIM Hi-Lume

LC1-L Small round aperture downlight at Squash Court

LC6 Linear perimeter cove at corridor Feet N/A LED 5 Per EE Remote LED driver 5 NON DIM N/A

LC13 Linear LED lensed up light cove Feet N/A LED 8 Per EE Integral LED driver 8 NON DIM N/A

LC11 Linear lensed LED Feet N/A LED 6 Per EE Integral LED driver 6 NON DIM N/A

LC9 Linear LED steam room fixture (high output) Feet N/A LED 4 Per EE Integral LED driver 4 NON DIM N/A

LC14 Linear LED grazer Feet N/A LED 15 Per EE Remote LED driver 15 NON DIM N/A

Refer to Electrical Engineer's Drawing

OCCUPANCY SENSOR TRIGGER.

VESTIBULE / CENTRE CORRIDOR):

3'

Controlling ZONE (DIM)

1. THIS DRAWING FOR LIGHTING INFORMATION ONLY.

2. FIXTURE LENGTHS ARE ESTIMATED AND SHOWN

4. RECEPTACLES BY OTHERS.

5. ADDITIONAL SURGE PROTECTION IS

COORDINATION NOTES:

A. COORDINATED BY CONTRACTOR AND

B. PROTECTED FROM WATER, OR RATED FOR

C. VENTILATED PER FIXTURE MANUFACTURER'S

D. SUB CELLAR DECORATIVE FIXTURE SCHEDULE

E. PROTECTED FROM WATER, OR RATED FOR

F. LIGHTING CONTROL LEGEND

G. LIGHTING CONTROL LEGEND

H. LIGHTING CONTROL LEGEND

I. LIGHTING CONTROL LEGEND

J. LIGHTING CONTROL LEGEND

K. LIGHTING CONTROL LEGEND

L. LIGHTING CONTROL LEGEND

M. LIGHTING CONTROL LEGEND

N. LIGHTING CONTROL LEGEND

O. LIGHTING CONTROL LEGEND

P. LIGHTING CONTROL LEGEND

Q. LIGHTING CONTROL LEGEND

R. LIGHTING CONTROL LEGEND

S. LIGHTING CONTROL LEGEND

T. LIGHTING CONTROL LEGEND

U. LIGHTING CONTROL LEGEND

V. LIGHTING CONTROL LEGEND

W. LIGHTING CONTROL LEGEND

X. LIGHTING CONTROL LEGEND

Y. LIGHTING CONTROL LEGEND

Z. LIGHTING CONTROL LEGEND

LOCATION OF POOL MASTER & KEY PAD TO BE DETERMINED

CONTROL INTENTION NOTE (FOR MEN'S VESTIBULE -

EMERGENCY FIXTURES TO BE ON 24 / 7,

NORMAL FIXTURES TO BE ON 100% PER OCCUPANCY

SENSOR TRIGGER.

REFER TO ELECTRICAL ENGINEER'S DRAWING

CONTROL INTENTION NOTE (FOR WOMEN'S VESTIBULE -

EMERGENCY FIXTURES TO BE ON 24 / 7,

NORMAL FIXTURES TO BE ON 100% PER OCCUPANCY

SENSOR TRIGGER.

REFER TO ELECTRICAL ENGINEER'S DRAWING

CONTROL INTENTION NOTE (FOR APARTMENT UNITS):

CONTROL ZONE (DIM)

CONTROL ZONE (NON-DIM)

MASTER CONTROL TOUCH KEYPAD (LOCATION TBD)

4 SCENE PRESET KEYPAD (LOCATION TBD)

D:DIM

ALL PERIMETER COVE OPENINGS TO BE 8" (TYP.)

Lighting Layout

Sub Cellar Floor

Lighting Control

Seal & Signature:
Under Directive 2 of 1975:

Date:

Clara Gomez
03/23/2017:

321197085

ES878391155
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<td>33-34</td>
<td>36</td>
<td>19</td>
<td>6#11</td>
<td>6#11</td>
<td>4 #6 4 1#11 E.F.</td>
</tr>
</tbody>
</table>
Under Directive 2 of 1975

Date: 03/23/2017

Clara Gomez

Notes:

- BALANCE OF REINFORCEMENT NOT SHOWN IN PLAN
- (30)#11
- (24)#11 INTRODUCED @ 4TH FL
- @ 4TH FL
- (12)#20
- (18)#20
- OPNG @ SUB-CELLAR, CELLAR, 2ND & 3RD FL (SEE ELEVATION)
- OPNG @ 1ST FL
- & SEE NOTE 5 FOR BALANCE OF REINF
- (3)#8@4 EF HORIZ
- & SEE NOTE 5 FOR BALANCE OF REINF
- #6@6 EF HORIZ @ 3RD - U/S 5TH FL
- (9)#11
- (8)#11
- (16)#11
- (4)#11
- (4)#9
- (10)#11
- #5@8 EF HORIZ & SEE NOTE 5 FOR BALANCE OF REINF
- #7@5 EF HORIZ @ 3RD - U/S 5TH FL
- (4)#11
- (4)#9
- SEE NOTE 5
- U/S 5TH FL
- (2)#9 @ 3RD - WALL STOPS
- U/S 4TH FL
- (26)#20
- (28)#20
- DEPT OF BLDGS
- (20)#20
- (12)#11
- (9)#12
- #7@5 EF HORIZ @ 3RD - U/S 5TH FL
- (9)#12
- & SEE NOTE 5 FOR BALANCE OF REINF
- (4)#11
- (8)#11
- (18)#11
- #4@8 EF HORIZ @ 2ND - U/S 5TH FL
- (18)#11
- & SEE NOTE 5 FOR BALANCE OF REINF
- #5@8 EF HORIZ @ 2ND - U/S 5TH FL
- (20)#20
- (12)#11
- (9)#12
- #7@5 EF HORIZ @ 3RD - U/S 5TH FL
- (9)#12
- (4)#9
- SEE NOTE 5
- (2)#9 @ 3RD - WALL STOPS
- U/S 4TH FL
- (26)#20
- (28)#20
- OPNG @ FDN TO U/S OF CELLAR
- OPNG @ CELLAR
SCALE: 3/8" = 1'-0"

32ND FLR - BULKHEAD SHEAR WALL REINFORCING PLAN

1. SEE S-00X SERIES DRAWINGS FOR GENERAL NOTES, LEGEND, AND ABBREVIATIONS
2. SEE S-930 & S931 FOR TYPICAL SHEAR WALL AND LINK BEAM DETAILS
3. SEE TABLE OF TYPICAL MINIMUM SHEAR WALL REINFORCING ON DRAWING S-930

- (8)#11 @ 48TH FL - U/S OF 55TH FL
- (6)#11 @ 50TH FL - T/WALL
- (8)#11 @ 45TH FL - U/S T/WALL
- (12)#11 @ 38TH FL - U/S 45TH FL
- (4)#11 @40TH FL-T/WALL
- (8)#11 @ 48TH FL - U/S OF 52ND FL
- (6)#11 @32ND-U/S 40TH FL
- (8)#11 @ 43TH FL - U/S 50TH FL
- (8)#11 @ 45TH - U/S T/WALL
- (16)#11 @ 40TH - U/S 45TH FL
- (30)#11 @ 32ND - U/S 35TH FL
- (10)#11 @ 40TH FL - T/WALL
- (8)#11 @ 40TH FL - T/WALL
- (4)#11 @40TH FL-T/WALL
- (6)#11 @32ND-U/S 40TH FL
- (12)#11 @ 38TH FL - U/S OF 48TH FL
- (6)#11 @ 32ND FL - U/S OF 38TH FL
- (8)#11 @ 45TH FL - T/WALL
- (4)#11 @ 50TH FL - T/WALL
- (24)#11 @ 35TH - U/S 40TH FL
- (14)#11 @ 32ND FL - U/S 36TH FL
- (8)#11 @ 40TH FL - T/WALL
- (4)#9 @ 50TH FL - T/WALL
- (4)#11 @ 40TH FL - T/WALL
- (4)#11 @ 31ST FL - U/S OF 50TH FL
- (2)#11 @56TH-T/WALL
- (8)#11 @ 40TH FL - T/WALL
- (4)#9 @ 50TH FL - T/WALL
- (4)#11 @ 31ST FL - U/S OF 50TH FL
- (2)#11 @56TH-T/WALL

WALL STOPS @ U/S MAIN ROOF

- (4)#9
- (4)#11

& SEE NOTE 5 FOR BALANCE OF REINF

- #6@8 EF HORIZ @40HT-U/S OF 52ND FL
- #4@6 EF HORIZ @32ND-U/S OF 34TH FL
- #4@8 EF HORIZ @40HT-U/S OF 52ND FL

OPNG @ MAIN ROOF-T/WALL ONLY

- 4 #11 @ 38TH FL - U/S 50TH FL
- 6 #11 @ 32ND FL - U/S OF 40TH FL
- 4 #11 @ 40TH FL - T/WALL
- 6 #11 @ 32ND-U/S 40TH FL
- 4 #11 @ 31ST FL - U/S OF 50TH FL
- 6 #11 @ 49THFL - T/WALL
- 4 #11 @32TH FL-U/S 40TH FL
- 4 #11 @ 40TH FL - T/WALL
- 4 #9 @ 50TH FL - T/WALL
- 4 #11 @ 31ST FL-U/S 50TH FL

& SEE NOTE 5 FOR BALANCE OF REINF

- #6@6 EF HORIZ @32ND-U/S OF 34TH FL
- #4@8 EF HORIZ @32ND-U/S OF 34TH FL

WALL STOPS U/S OF 57TH FL

- (8)#11 @ 48TH FL - U/S OF 52ND FL
- (12)#11 @ 38TH FL - U/S OF 48TH FL
- (6)#11 @ 32ND FL - U/S OF 38TH FL
- (8)#11 @ 36ND FL - U/S 40TH FL
- (14)#11 @ 32ND FL - U/S 36TH FL

& SEE NOTE 5 FOR BALANCE OF REINF

- #5@6 EF HORIZ @32ND-U/S OF 34TH FL
- #4@8 EF HORIZ @32ND-U/S OF 34TH FL
- #4@6 EF HORIZ @32ND-U/S OF 34TH FL
- #4@6 EF HORIZ @32ND-U/S OF 34TH FL

WALL STOPS U/S OF 51ST FL

- (8)#11 @ 48TH FL - U/S OF 51ST FL
- (12)#11 @ 38TH FL - U/S OF 51ST FL
- (6)#11 @ 32ND FL - U/S OF 38TH FL
- (8)#11 @ 36ND FL - U/S 40TH FL
- (14)#11 @ 32ND FL - U/S 36TH FL
S-932 & SW-3 ELEVATION LOOKING NORTH

STIRRUPS(*)
END PLATE
#6@4 TYPE 4
22"x30"x1/2"

SEE SCHEDULE

LB4 LB7

1.3Ld
EQ
OPNG
LB7
1' - 6"
(2)8"Ø
(2)6"Ø
6' - 8"
SEE SCHED
(12)#20 (6 LAYERS) GR 80ksi
16x16
SEE SCHED
(2)#6 T&B
LB8 LB5
TYP
LB DEPTH
SEE SCHED
LEVEL 1
LEVEL 2
LEVEL 3
LEVEL 4
LEVEL 5
LEVEL 6
LEVEL 8
LEVEL 9
205' - 0"
174' - 3"
185' - 2"
195' - 1"

NOTES:
5. ALL END PLATES ARE GRADE 50(fy = 50ksi) UNO
3. (*) INDICATES IN LIEU OF REINF SHOW ON SHEAR WALL PLAN

REFER TO FO-SERIES

100% DESIGN DEVELOPMENT
07-29-16 ISSUED FOR NYCTA APPROVAL
05-02-16 100% DESIGN DEVELOPMENT

Langan Engineering, Environmental Surveying
120 Broadway, Suite 1040
166 Ames Street, Hackensack, NJ 07601
e-mail: eng@vdassoc.com
Delivering Vertical Transportation

Langan
321197085
ES356542975
TYPICAL INTERIOR SLAB OPENING

TYPICAL BEAM SECTION AND STIRRUP TYPES

UNSUPPORTED END

3/4" CLEAR, TYPICAL

NOTE:

STIRRUPS INTO (2) LAYERS UNLESS NOTED ON

THROUGH BEAM, TYPICAL

CANTILEVER SPAN

WHERE "D" EXCEEDS 36"

#4@12" EACH FACE

TYPICAL

STIRRUPS

BEAM "C" CONTINUOUS TOP

1 1/2"

EXTERIOR SUPPORT

C OF BEAM OR COLUMN

6"

STANDARD HOOK, TYPICAL

STIRRUP END SPACING=S1

3"

1 1/2" CLR EACH SIDE, TYP

BEAM "A"

L1/4

1 1/2" CLEAR, TYPICAL

S1

TOP BARS (LAYER #1)

3" OR 2 1/2 Db WHICHEVER IS GREATER

BOTTOM BARS (LAYER #1)

TOP CONTINUOUS BARS

CLASS B TENSION

EXTERIOR SPAN

2. SCHEDULED STIRRUPS NOT SHOWN FOR CLARITY.

2. IF BEAM "A" TOP BARS DO NOT MATCH BEAM "B" TOP BARS AS SCHEDULED, THE LARGER STEEL AREA SHALL GOVERN.

1. L * IS THE LARGER OF ADJACENT SPANS L1 AND L2.

LAP SPLICE

C OF SPAN

SCHEDULED STIRRUP SPACING.

LL

OR

TYPE 1B

ADD'L SET OF STIRRUPS

BEAM (VERTICAL SLEEVE)

ALL BEAM REINF TO BE CONTINUOUS. MOVE

TYPE 2

2" MAX SLEEVE

EACH SIDE OF SLEEVE, TYP

TYPE 5

TYPE 6

6Db

W = WIDTH OF OPENING

PERPENDICULAR TO REINFORCING

MAX. WIDTH OF REINFORCING

ADDITIONAL REINF.

WHERE SLEEVE SPACING PERMITS ZONE TO ALLOW CONTINUOUS REINFORCING

MECH. DRAWINGS

COORDINATE REINFORCING LAYOUT AT SLEEVE

MAX. WIDTH OF SLEEVING

=W/2 MAX

MIN W = 8"

W = ACTUAL WIDTH OF SLEEVING

PERPENDICULAR TO REINFORCING

SLAB AVAILABLE FOR SLEEVING

NOTE:

SLAB THICKNESS = T

FOR DIMENSIONS AND LOCATIONS

(REFER TO SLAB ELEVATIONS)

SLAB REINFORCING AT OPENINGS (BLOCK OUTS)

NOTE:

3"

3" MAXIMUM TO FIRST BAR, TYP

LENGTH (TYPICAL EACH SIDE OF OPENING)

EXTENSION OF ADDITIONAL REINFORCING

MIN W

A = AREA OF REINFORCING

ADDITIONAL REINF. EACH SIDE OF OPENING = A/2 OR (2)-#5

ADDITIONAL REINF. EACH SIDE OF OPENING = A/2 OR (2)-#5

A = AREA OF REINFORCING

ADDITIONAL REINF. EACH SIDE OF OPENING = A/2 OR (2)-#5

MIN W = 8"

= W/2 = W/2

= W/2 MAX

= W/2 MAX

MIN W

NOTE:

= 1.5W + CLASS B TENSION SPLICE

= W/2

= 1.5W
Approved under Directive 2 of 1975

Date:

Clara Gomez

90° HK at all top zones, provide

2 cantilever opennings

typical flat plate framed slab elevation

bars

typical flat plate reinforcing plan detail for top

bars

bottom bars (plan view)

steps to design

typical flat plate reinforcing plan detail for bottom bars

bottom bars (plan view)

anual to design

typical slab reinforcing rules at multiple opennings

typical knock-out panel

typical hoist beam conn to slab

notes:

1. all rules apply for both top and bottom slab reinforcing in each combined openings for north/south reinforcing

2. all additional top bars to be placed equally about 4".

3. see plan for bar placement order.

4. remaimder (50% max)

5. bottom reinforcing (l) and shall be class a

6. locate at mid length of mid span

7. all rules apply for both top and bottom slab reinforcing in each combined openings for north/south reinforcing

8. top bars see

9. for min length of reinforcing

10. greaer of 0.3 ln or 0.3 ln

11. greaer of 0.20 ln or 0.20 ln

12. greaer of 0.22 ln or 0.22 ln

13. ways, typ

14. greaer of 0.15 ln of remaining

15. remaimder (50% max)

16. # l = (2'-6" min) typ

17. core each way, typ

18. see plan notes on cantilever.

19. remaimder (50% max)

20. bottom reinforcing (l) and shall be class a

21. remaimder (50% max)

22. bottom reinforcing (l) and shall be class a

23. remaimder (50% max)

24. bottom reinforcing (l) and shall be class a

25. remaimder (50% max)

26. bottom reinforcing (l) and shall be class a

27. remaimder (50% max)

28. bottom reinforcing (l) and shall be class a

29. remaimder (50% max)

30. bottom reinforcing (l) and shall be class a

31. remaimder (50% max)

32. bottom reinforcing (l) and shall be class a

33. remaimder (50% max)

34. bottom reinforcing (l) and shall be class a

35. remaimder (50% max)

36. bottom reinforcing (l) and shall be class a

37. remaimder (50% max)

38. bottom reinforcing (l) and shall be class a

39. remaimder (50% max)

40. bottom reinforcing (l) and shall be class a
## Typical Slab Shear Reinforcing

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Mark</th>
<th>Support Bars</th>
<th>Stirrups</th>
<th>Size</th>
<th># of Vert Legs</th>
<th>Spacing (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A (2)</td>
<td>#6 T&amp;B #4</td>
<td>2 5</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**NOTE:**
1. Stirrups shall match column width and extend 7'-0" from the face of column on each side.
2. Support bars for ties are in addition to slab reinforcement. Slab reinforcement is not shown for clarity, see plans.
NOTE:
1. COAT ROOF SLAB WITH FLEXIBLE MEMBRANE WITH REINFORCING SHEETS (MANUFACTURED BY BELZONA MOLECULAR INC.) OR NITOCOTE DEXGAURD P-40 (MANUFACTURED BY PRECO INDUSTRIES LTD.) ALL WATERPROOFING MATERIAL APPLIED AS RECOMMENDED BY MANUFACTURER. PRIOR TO APPLICATION SURFACE MUST BE PREPARED AS PER EO-1007.
3. ALL STAIR TREAD AND RISER DIMENSIONS SHALL BE PER ARCHITECT.

7. SHOP DRAWINGS FOR STAIRS SHALL CLEARLY INDICATE BAR SIZE, SPACING, SPLICE POINTS, LENGTHS, CLEARANCES, HOOKS, BAR SUPPORTS, etc. REQUIRED FOR FIELD INSTALLATION OF REINFORCING. PROVIDE BOTH PLANS AND SECTIONS FOR EACH INDIVIDUAL STAIR. COORDINATE FLOOR, EL VARIES.

SEE NOTE 4 (SEE PLANS)

TOP REINF

SEE SCHEDULE

8" TOP REINF

TYP EA RISER

NOTE 5

SEE SCHEDULE

#4@18 DOWELS, TYP

RIGID INSULATION (60 PSI COMPRESSIVE STRENGTH)

6" MIN

4'-0" L - LOWER

20'-0" < L ≤ 24'-0" 9" #6@8

17'-6" < L ≤ 20'-0" 9" #6@12

17'-6" < L ≤ 20'-0" 9" #5@12

17'-6" < L ≤ 20'-0" 9" #5@12

15'-0" < L ≤ 17'-6" 8" #5@12

20'-0" < L ≤ 24'-0" 9" #6@8

L, SPAN STAIR SLAB

STAIR SLAB

THICKNESS

MINIMUM THICKNESS AT STAIRS

STEP RIGID INSULATION TO PROVIDE 6"

#4@18 DOWELS, TYP

FOR STAIRS TREADS, RISERS

#4@18 HOR, TYP

#4@12 DOWELS

FOR STAIRS TREADS, RISERS

#4@18 DOWELS, TYP

#4@18  DOWELS, TYP

#4@18 DOWELS, TYP

#4@12 OC x 24" LG

SEE FRAMING PLANS

4" TYP EA RISER

NOTE 6

NOTE 6
Under Directive 2 of 1975

Date:

Clara Gomez
03/23/2017:
Under Directive 2 of 1975
Date:
Clara Gomez
03/23/2017:
Under Directive 2 of 1975

Date:

03/23/2017:

APPROVED

03/23/2017:

ES496100971

PROJECT:

OWNER/DEVELOPER:

ARCHITECT OF RECORD:

DESIGN ARCHITECT:

STRUCTURAL ENGINEERS:

MEP ENGINEERS:

Kohn Pedersen Fox Associates PC

ONE LIBERTY PLAZA, 165 BROADWAY, 22ND FLOOR

NEW YORK, NY 10006

TEL.: (212) 354-5656
FAX.: (212) 256-2526

MECHANICAL 9TH TO 30TH FLOOR

PLAN - PIPING

DATE:

Y150382-000

Checker

Author

DRAWING No:

CADD FILE:

APPROVED
### Toilet Exhaust Riser Diagram

<table>
<thead>
<tr>
<th>Floor</th>
<th>Toilet Exhaus Riser Diagram</th>
</tr>
</thead>
<tbody>
<tr>
<td>3RD FLOOR</td>
<td>40 CFM/ MASTER BATHROOM 30 CFM/ BEDROOM 2 BATHROOM</td>
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<tr>
<td>2ND FLOOR</td>
<td>40 CFM/ MASTER BATHROOM 30 CFM/ BEDROOM 2 BATHROOM</td>
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<tr>
<td>1S FLOOR</td>
<td>40 CFM/ MASTER BATHROOM 30 CFM/ BEDROOM 2 BATHROOM</td>
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<td>26FLOOR</td>
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<tr>
<td>SUB-CELLAR</td>
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<td>GROUND FLOOR</td>
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<td>Floor</td>
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<td>30∅H FLOOR</td>
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</table>
1. System required for each stairwell for the base of the building.
2. Both equipment and ductwork located within the building is to be separated from the remainder of the building, including other mechanical by a 2-hour fire-resistance fire barriers.
3. Air pressure distribution off sets that leave stairway on a floor shall have an enclosure wrapped in 2-hour fire wrap.
4. Entire system and controls need to be integrated into building emergency generator.
5. System requires connection and interface with fire alarm system.
6. All doors to stairwell will require to be smoke sealed.
7. Special inspection, acceptance testing and periodic inspection required.

VAV

Barometric backdraft damper (for each door)

Air pressure sensor to maintain the code required positive pressure of the stair relative to the building floor. (For all)

Rev

(Refall) (Residential) (Refall) (Residential) (Residential)
### Cooling Tower Schedule

<table>
<thead>
<tr>
<th>Mounting Base Type</th>
<th>Entering Wet Bulb (°F)</th>
<th>Cell</th>
</tr>
</thead>
<tbody>
<tr>
<td>CT-R-2</td>
<td>11'</td>
<td>0 0 0</td>
</tr>
<tr>
<td>ROOF CONDENSER WATER</td>
<td>13'</td>
<td>0 0 0</td>
</tr>
<tr>
<td>2000</td>
<td>100</td>
<td>85</td>
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<tr>
<td>60</td>
<td>0 60</td>
<td>0 0</td>
</tr>
<tr>
<td>460</td>
<td>3 60</td>
<td>1 30.0</td>
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</tbody>
</table>

### Heat Exchanger Schedule

<table>
<thead>
<tr>
<th>Level</th>
<th>Pipe Schedule</th>
<th>Operating Diameter</th>
<th>Operating Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>31</td>
<td>2' - 0&quot;</td>
<td>2' - 0&quot;</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>2' - 0&quot;</td>
<td>2' - 0&quot;</td>
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</tbody>
</table>

### Fan Schedule

<table>
<thead>
<tr>
<th>Type</th>
<th>Fan RPM</th>
<th>CFM</th>
<th>Volts</th>
<th>Phase</th>
<th>Hertz</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHWP-31-2</td>
<td>286T-L</td>
<td>460</td>
<td>3</td>
<td>60</td>
<td></td>
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### Electrical Data Specifications

<table>
<thead>
<tr>
<th>E ARRANG.</th>
<th>EXP. ARRANG.</th>
<th>EXT. SP (IN. W.G.)</th>
<th>HWAS-31-1</th>
<th>KX-4R-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>EX-4-5</td>
<td>LEVEL 4</td>
<td>CON-ED VAULT</td>
<td>EXHAUST INLINE</td>
<td>0</td>
</tr>
<tr>
<td>01798</td>
<td>460</td>
<td>1</td>
<td>60</td>
<td>Loren Cook Company</td>
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</table>

### Compression Data

<table>
<thead>
<tr>
<th>Type</th>
<th>HP-A</th>
<th>HP-B</th>
</tr>
</thead>
<tbody>
<tr>
<td>SA-02</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

### Heat Pump Schedule

<table>
<thead>
<tr>
<th>Type</th>
<th>CAPACITY (MBH)</th>
<th>EWT (°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HW-31-2</td>
<td>5520</td>
<td>208</td>
</tr>
</tbody>
</table>

### Foundation Schedule

<table>
<thead>
<tr>
<th>Foundation Type</th>
<th>Base Mounted End Suction HOT WATER</th>
<th>Base Mounted End Suction CONDENSER WATER</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHWP-31-2</td>
<td>286T-L</td>
<td>460</td>
</tr>
<tr>
<td>Bell &amp; Gossett</td>
<td>460</td>
<td>3</td>
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</tbody>
</table>

### Heat Pump Schedule

<table>
<thead>
<tr>
<th>Type</th>
<th>CAPACITY (MBH)</th>
<th>EWT (°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HW-31-2</td>
<td>5520</td>
<td>208</td>
</tr>
</tbody>
</table>

### Water Treatment Schedule

<table>
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<tr>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HW-31-2</td>
<td>5520</td>
</tr>
</tbody>
</table>

### Air Pressure Schedule

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HW-31-2</td>
<td>5520</td>
</tr>
</tbody>
</table>

### Fire Schedule

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
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<tbody>
<tr>
<td>HW-31-2</td>
<td>5520</td>
</tr>
</tbody>
</table>

### Electrical Schedule

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HW-31-2</td>
<td>5520</td>
</tr>
</tbody>
</table>

---

**NOTES:**

1. ERU UNITS TO BE PROVIDED WITH HOT GAS REHEAT COIL.

---

**SIGNATURE:**

Clara Gomez

03/23/2017
### VAV Schedule

<table>
<thead>
<tr>
<th>UNIT NO.</th>
<th>CFM</th>
<th>UNIT DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.</td>
<td></td>
<td>FOR VAV-1-7 &amp; VAV-1-8, PROVIDE 5.0 KW ELECTRIC HEATING COIL.</td>
</tr>
</tbody>
</table>

### Notes

- VAV-6-7 1000 10 330 1000 14 13 ANEMOSTAT
- VAV-5-9 1200 12 396 1200 16 15 ANEMOSTAT
- VAV-1-4 880 12 290 880 16 15 ANEMOSTAT
- VAV-1-1 650 8 215 650 12 10 ANEMOSTAT

### DX-4-1
- FAN SHALL BE MODULATING DRYER EXHAUST FAN - ENERVEX MDVS350 WITH BEF350 BOX VENTILATOR. FAN SHALL BE UL705 COMPLIANT.

### Starters and Disconnects

- STEF-57-1 LEVEL 57 ELEV. SHAFT COOLING INLINE 3200 1.50 1.39 BELT 0.75 VFD 1725 480 3 60 PER SPECIFICATIONS REFER TO SPEC Loren Cook Company 165QMX
- STEF-57-2 LEVEL 57 ELEV. SHAFT COOLING INLINE 4000 1.50 1.39 BELT 0.75 VFD 1770 480 3 60 PER SPECIFICATIONS REFER TO SPEC Loren Cook Company 165QMX
- STEF-31-2 LEVEL 31 ELEV. SHAFT COOLING INLINE 3200 1.50 0.00 BELT 0.75 VFD 1725 480 3 60 PER SPECIFICATIONS REFER TO SPEC Loren Cook Company 165QMX

### PFSP-R-1
- LEVEL 4 PFSP RESIDENTIAL INLINE 30000 1.50 36.80 BELT 40.0

### MUA-57-3
- LEVEL 57 57TH FLOOR MER MUA INLINE 2650 1.00 0.41 BELT 0.50 HOA 1725 480 3 60 PER SPECIFIATIONS - REFER TO SPEC Loren Cook Company 90QMX
- MUA-57-1 LEVEL 57 57TH FLOOR MER MUA INLINE 2650 1.00 0.41 BELT 0.50 HOA 1725 480 3 60 PER SPECIFIATIONS - REFER TO SPEC Loren Cook Company 90QMX

### PFSP-4-4
- LEVEL 4 PFSP - RETAIL EXHAUST INLINE 35000 2.50 36.80 BELT 40.0
- PFSP-4-3 LEVEL 4 PFSP - RETAIL SUPPLY INLINE 35000 2.50 36.80 BELT 40.0
- PFSP-4-2 LEVEL 4 RESIDENTIAL PFSP/SMOKE CTRL INLINE 35000 2.50 36.80 BELT 40.0

### STEF-4-2
- LEVEL 4 ELEV. SHAFT COOLING INLINE 1000 1.50 0.57 BELT 0.75 VFD 1725 480 3 60 PER SPECIFIATIONS REFER TO SPEC Loren Cook Company 120QMX-HP
- STEF-4-1 LEVEL 4 ELEV. SHAFT COOLING INLINE 1000 1.50 0.57 BELT 0.75 VFD 1725 480 3 60 PER SPECIFIATIONS REFER TO SPEC Loren Cook Company 120QMX-HP

### SCF-1-3
- LEVEL 1 SMOKE CONTROL INLINE 4400 0.50 0.86 BELT 1.50 VFD 1752 480 3 60 PER SPECIFIATIONS REFER TO SPEC Loren Cook Company 20-TIB

### SPF-4-4
- LEVEL 4 STAIR C PRESSURIZATION INLINE 2000 1.50 0.74 BELT 2.00 VFD 1725 480 3 60 PER SPECIFIATIONS REFER TO SPEC Loren Cook Company 150QMX-HP

### KX-57-1
- LEVEL 57 RESIDENTIAL KX INLINE 8100 2.50 0.00 BELT 7.50 VFD 1725 480 3 60 PER SPECIFIATIONS REFER TO SPEC Loren Cook Company 202QMX

### TX-31-2
- LEVEL 31 RESIDENTIAL TX INLINE 5520 2.50 1.50 BELT 7.50 VFD 1725 480 3 60 PER SPECIFIATIONS REFER TO SPEC Loren Cook Company 165QMX

### KX-31-3
- LEVEL 31 RESIDENTIAL KX INLINE 7950 2.50 0.00 BELT 7.50 VFD 1725 480 3 60 PER SPECIFIATIONS REFER TO SPEC Loren Cook Company 225QMX-HP

### EX-31-4
- LEVEL 31 31ST FLR MER EXHAUST INLINE 2510 0.50 0.66 BELT 0.75 HOA 1725 480 3 60 PER SPECIFIATIONS - REFER TO SPEC Loren Cook Company 120QMX

### RF-4-3
- LEVEL 4 RETURN FAN INLINE 8500 1.50 3.26 BELT 5.00 VFD 1504 480 3 60 PER SPECIFIATIONS REFER TO SPEC Loren Cook Company 202QMX

### EX-4-7
- LEVEL 4 POOL EQUIPMENT RM EXH INLINE 500 1.50 0.72 BELT 0.75 HOA 3490 120 1 60 PER SPECIFIATIONS REFER TO SPEC Loren Cook Company 70SQN-B

### EX-4-6
- TRASH & COMPACTOR RM EXH INLINE 1800 1.50 0.69 BELT 1.50 HOA 1725 480 3 60 PER SPECIFIATIONS REFER TO SPEC Loren Cook Company 150QMX-HP

### EX-4-4
- 4TH FLR MER EXHAUST INLINE 1850 0.50 0.27 BELT 0.75 HOA 1725 480 3 60 PER SPECIFIATIONS - REFER TO SPEC Loren Cook Company 135QMX

### EX-4-2
- 4TH FLR MER EXHAUST INLINE 2450 0.50 0.44 BELT 0.75 HOA 1725 480 3 60 PER SPECIFIATIONS - REFER TO SPEC Loren Cook Company 135QMX

### TX-4-2
- LEVEL 4 5TH & 6TH FLOOR AMENITY TX INLINE 1800 1.50 0.76 BELT 1.00 VFD 1797 480 3 60 PER SPECIFIATIONS REFER TO SPEC Loren Cook Company 135QMX-HP

### EX-4-1
- DOG WASH EXHAUST INLINE 300 1.50 0.37 BELT 0.50 HOA 2797 120 1 60 PER SPECIFIATIONS REFER TO SPEC Loren Cook Company 70SQN-B

### nigeria
4. NEITHER ACCURACY NOR COMPLETION OF UTILITY LOCATIONS SHOWN ON DRAWINGS IS GUARANTEED. DETERMINE AND IDENTIFY LOCATIONS OF UNMARKED UTILITY LINES AS NECESSARY TO PERFORM WORK OF THIS SECTION.

5. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE CURRENT PLUMBING CODE AND ALL APPLICABLE LOCAL CODES AND DRAWINGS.

6. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE HIS WORK WITH THAT OF ALL OTHER TRADES, INCLUDING (BUT NOT LIMITED TO), ELECTRICAL, HVAC PROCESS PIPING, SPRINKLER, PLUMBING STRUCTURAL AND GENERAL ARCHITECTURE.

7. IT IS THE RESPONSIBILITY OF THE CONSTRUCTION MANAGER TO DETERMINE WHICH IS IN VIOLATION OF SUCH CODES SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND THE OWNER'S REPRESENTATIVE AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF THE WORK INVOLVED.

8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE HIS WORK WITH THAT OF ALL OTHER TRADES, INCLUDING (BUT NOT LIMITED TO), ELECTRICAL, HVAC PROCESS PIPING, SPRINKLER, PLUMBING STRUCTURAL AND GENERAL ARCHITECTURE.

9. ALL PIPING PENETRATING CEILING AND WALLS SHALL BE INSTALLED WITH CHROME (STAINLESS WHERE NOTED) PLATED ESCUTCHEONS AT THE PENETRATION. ALL PIPING PENETRATING EXTERIOR WALLS AND ROOFS SHALL BE PARTITIONS SHALL BE PROTECTED AS REQUIRED BY LOCAL CODE AUTHORITY. (SEE DETAILS)

10. MANUFACTURER'S MODEL NUMBERS ARE SPECIFIED SOLELY TO ESTABLISH STANDARDS OF QUALITY FOR WATER SERVICE

11. ISOLATION VALVE W/BOX TO GRADE MANHOLE IN SANITARY SEWER EXISTING MANHOLE FIRE HYDRANT WELL SITE WATER (COMBINED DOMESTIC & FIRE WELL WATER

12. TOPS OF ALL FLOOR DRAINS SHALL BE SET FLUSH WITH FINISHED FLOOR. ALL PIPING ABOVE GRADE SHALL BE PROPERLY SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE.

13. PROVIDE BALL VALVES ON ALL WATER MAIN BRANCHES IN CORRIDORS AND WHERE INDICATED ON DRAWINGS. ALL VALVES SHALL BE ACCESSIBLE.

14. PROVIDE INFORMATION AND HARDWARE AS NECESSARY TO COORDINATE WORK.

15. STRUCTURAL WELDING SHALL BE 1/4-INCH FILLET UNLESS REQUIRED OTHERWISE.

16. PROVIDE CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN.

17. DESIGN ARCHITECT: ICM Architects

18. PROJECT No: DRAWN BY: CHECKED BY:

19. WILLOUGHBY ST. FLATBUSH AVE.

20. ARCHITECT OF RECORD: EXTELL DEVELOPMENT

21. NORTH ARROW

22. Scale:

23. KEY PLAN: PROJECT: DRAWING TITLE:

24. SEAL & SIGNATURE:

25. CADD FILE:

26. PROJECT No: DRAWING No:

27. REV: No: Date:

28. GAS PIPING AND SAFETY DEVICES SHALL CONFORM TO THE REQUIREMENTS OF NFPA 54 AND SHALL BE SUBJECT TO TESTING ACCORDING TO THE REQUIREMENTS OF THE LOCAL PLUMBING CODE.


30. PLUMBING SUBCONTRACTOR IS RESPONSIBLE FOR EXTENDING ALL REGULATOR VENTS TO ATMOSPHERE.

31. WATER HEATERS SHALL BE INSTALLED WITH DRAIN PANS UNDER HEATERS. ROUTE PAN DRAINS TO NEAREST FLOOR DRAIN OR SAFE DRAIN.
APPROVED
Under Directive 2 of 1975
Date:
Clara Gomez
03/23/2017:
APPROVED
Under Directive 2 of 1975
Date: 03/23/2017:
Clara Gomez

PROJECT: CITY POINT PHASE 3
ARCHITECT OF RECORD: EXTELL DEVELOPMENT

DESIGN ARCHITECT: SLCE Architects

MEP ENGINEERS: McNAMARA . SALVIA

STRUCTURAL ENGINEERS: Kohn Pedersen Fox Associates PC

ROOMS:
- 8" SANITARY 8" VENT
- 5 1/2 BR
- 3 1/2 BR
- 2 BR
- 1 BR
- MASTER BEDROOM
- LIVING/DINING ROOM
- BEDROOM #1
- BEDROOM #2
- BEDROOM #3
- W/D
- KITCHEN
- M.BATH.
- C.TOP/ W.OVEN
- F/FR
- PE-1
- PE-2
- PE-3
- PE-4
- CS
- D
- W.I.C.
- CL.
- AP
- SE-1
- SO
- TX
- TX 16x14
- W.I.C.
- M.BATH.
- C.TOP/ W.OVEN
- F.
- P
- BW/D
- F.
- M.BATH.
- C.TOP/ W.OVEN
- F.
- P
- BW/D
- F.
- M.BATH.
- C.TOP/ W.OVEN
- F.
- P
- BW/D
- F.
- M.BATH.
- C.TOP/ W.OVEN
- F.
- P
- BW/D
- F.
- M.BATH.
- C.TOP/ W.OVEN
- F.
- P
- BW/D
- F.
- M.BATH.
- C.TOP/ W.OVEN
- F.
- P
- BW/D
- F.
- M.BATH.
- C.TOP/ W.OVEN
- F.
- P
- BW/D
- F.
- M.BATH.
- C.TOP/ W.OVEN
- F.
- P
- BW/D
- F.
- M.BATH.
- C.TOP/ W.OVEN
- F.
- P
- BW/D
- F.
- M.BATH.
- C.TOP/ W.OVEN
- F.
- P
- BW/D
- F.
- M.BATH.
- C.TOP/ W.OVEN
- F.
- P
- BW/D
- F.
- M.BATH.
- C.TOP/ W.OVEN
- F.
- P
- BW/D
- F.
- M.BATH.
- C.TOP/ W.OVEN
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- BW/D
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- M.BATH.
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- F.
- P
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- F.
- M.BATH.
- C.TOP/ W.OVEN
- F.
- P
- BW/D
- F.
- M.BATH.
- C.TOP/ W.OVEN
- F.
- P
- BW/D
- F.
- M.BATH.
- C.TOP/ W.OVEN
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- BW/D
- F.
- M.BATH.
- C.TOP/ W.OVEN
- F.
- P
- BW/D
- F.
- M.BATH.
- C.TOP/ W.OVEN
- F.
- P
- BW/D
- F.
- M.BATH.
- C.TOP/ W.OVEN
- F.
- P
- BW/D
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- C.TOP/ W.OVEN
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- P
- BW/D
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- C.TOP/ W.OVEN
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- BW/D
- F.
- M.BATH.
- C.TOP/ W.OVEN
- F.
- P
- BW/D
- F.
- M.BATH.
- C.TOP/ W.OVEN
- F.
Under Directive 2 of 1975

Date: 03/23/2017:

APPROVED

Clara Gomez
APPROVED
Under Directive 2 of 1975
Date:
Clara Gomez
03/23/2017:
| Floor  | Height  
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>23rd</td>
<td>337'11&quot;</td>
</tr>
<tr>
<td>29th</td>
<td>398'5&quot;</td>
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<td>30th</td>
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<td>421'3&quot;</td>
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<td>443'3&quot;</td>
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<tr>
<td>27th</td>
<td>378'7&quot;</td>
</tr>
<tr>
<td>28th</td>
<td>388'6&quot;</td>
</tr>
</tbody>
</table>

*NOTE: This is a partial list of floor heights. The complete list includes additional floors.*
PLUMBING GAS RISER DIAGRAM

Issue Date

Author

Checker

1 12/18/15  DOB FILING
2 01/25/16 100% SCHEMATIC DESIGN
3 02/18/16 50% DD SET
4 05/02/16 100% DESIGN DEVELOPMENT
5 05/02/16  DOB FILING

APPROVED

Under Directive 2 of 1975

03/23/2017:

Clara Gomez

03/23/2017:

APPROVED

Under Directive 2 of 1975