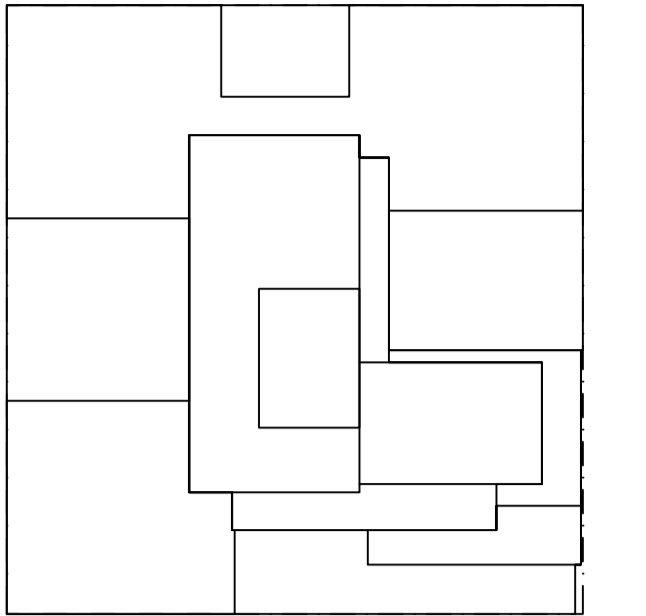


MECHANICAL CELLAR LEVEL FLOOR PIPING PLAN  
SCALE: 1/8" = 1'-0"

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KEY PLAN

10/12/2016 ISSUED FOR DOB  
12/02/2016 DOB FILING SET

Number Date Revision  
UNITED CONSTRUCTION & DEVELOPMENT GROUP CROP  
COURT SQUARE  
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134-03 35TH AVE, FLUSHING  
NEW YORK, NY 11354  
TEL (718) 321.8662

PROJECT NAME: COURT SQUARE  
ADDRESSES: 23-15 44 DRIVE  
QUEENS, NEW YORK 11101

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VAN DEUSEN & ASSOCIATES  
120 Eagle Rock Ave, Suite 310  
East Hanover, NJ 07936  
Tel (973) 994.9220 Fax (973) 994.2539

DOB SCAN

DOB STAMPS & SIGNATURES

OWN TITLE  
MECHANICAL  
CELLAR FLOOR PLAN  
PIPING

SCALE & SIGNATURE DATE 10/12/16  
PROJECT # 150310  
SCALE 1/8" = 1'-0"  
M-100P.00  
X OF X



02/05/2016	DOB FILING SET
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Number:      Date:      Revision:

UNITED CONSTRUCTION &  
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COURT SQUARE  
PROPERTY OWNER LLC  
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NEW YORK, NY 1154  
TEL. (718) 321.8652

ST NAME: **COURT SQUARE**  
 SSES: 23-15 44 DRIVE  
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East Hanover, NJ. 07936  
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CAN

**AMPS & SIGNATURES:**


MECHANICAL  
GROUND FLOOR PLAN

DATE \_\_\_\_\_


PROJECT #:

SCALE: 1/8"

M 101

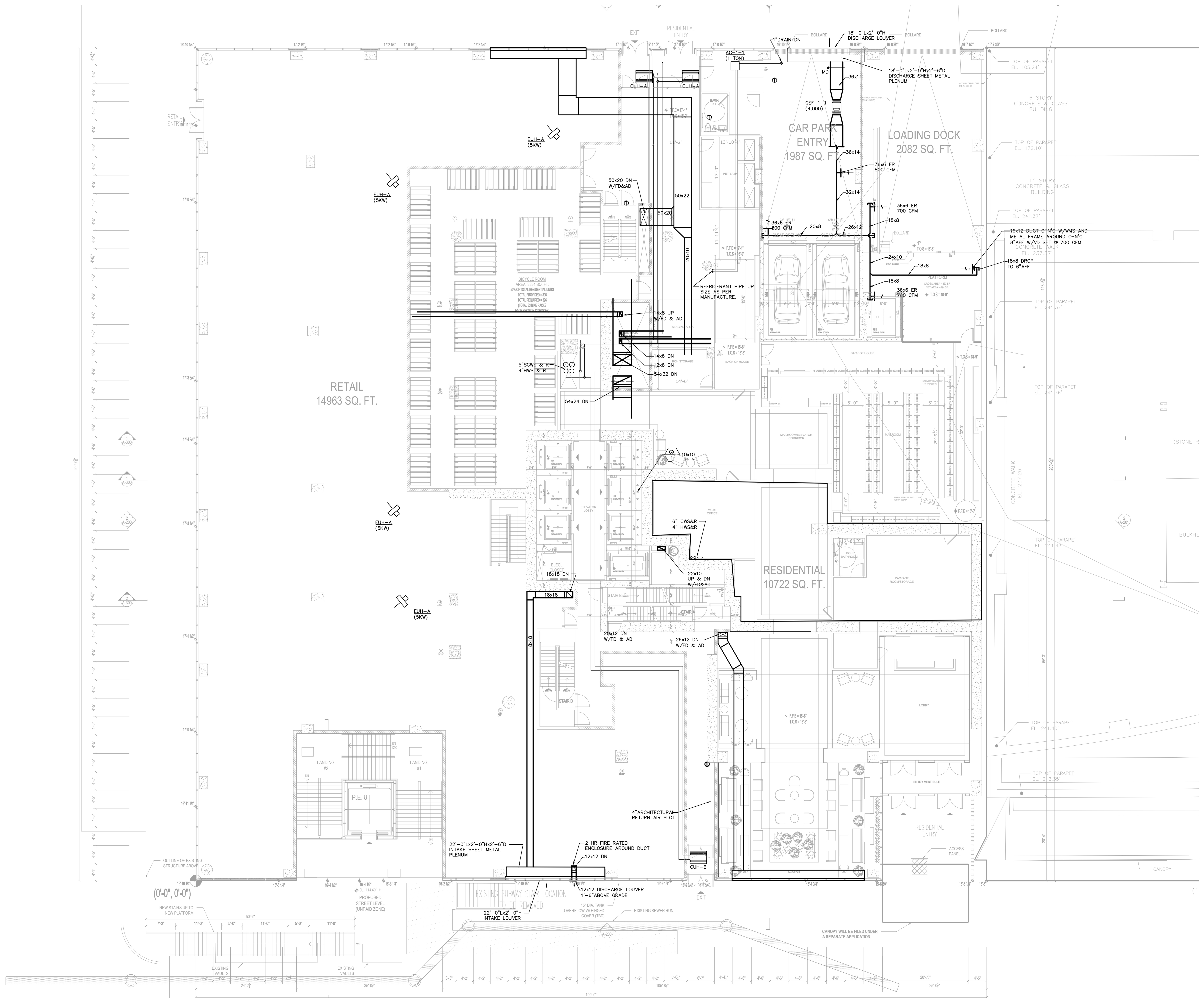


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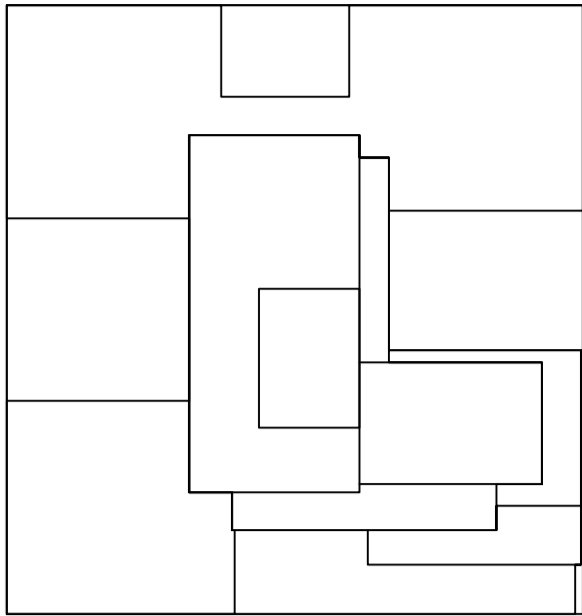
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MECHANICAL GROUND FLOOR PLAN  
SCALE:  $\frac{1}{8}" = 1'-0"$

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PROJECT NAME: **COURT SQUARE**  
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New York, NY 10121  
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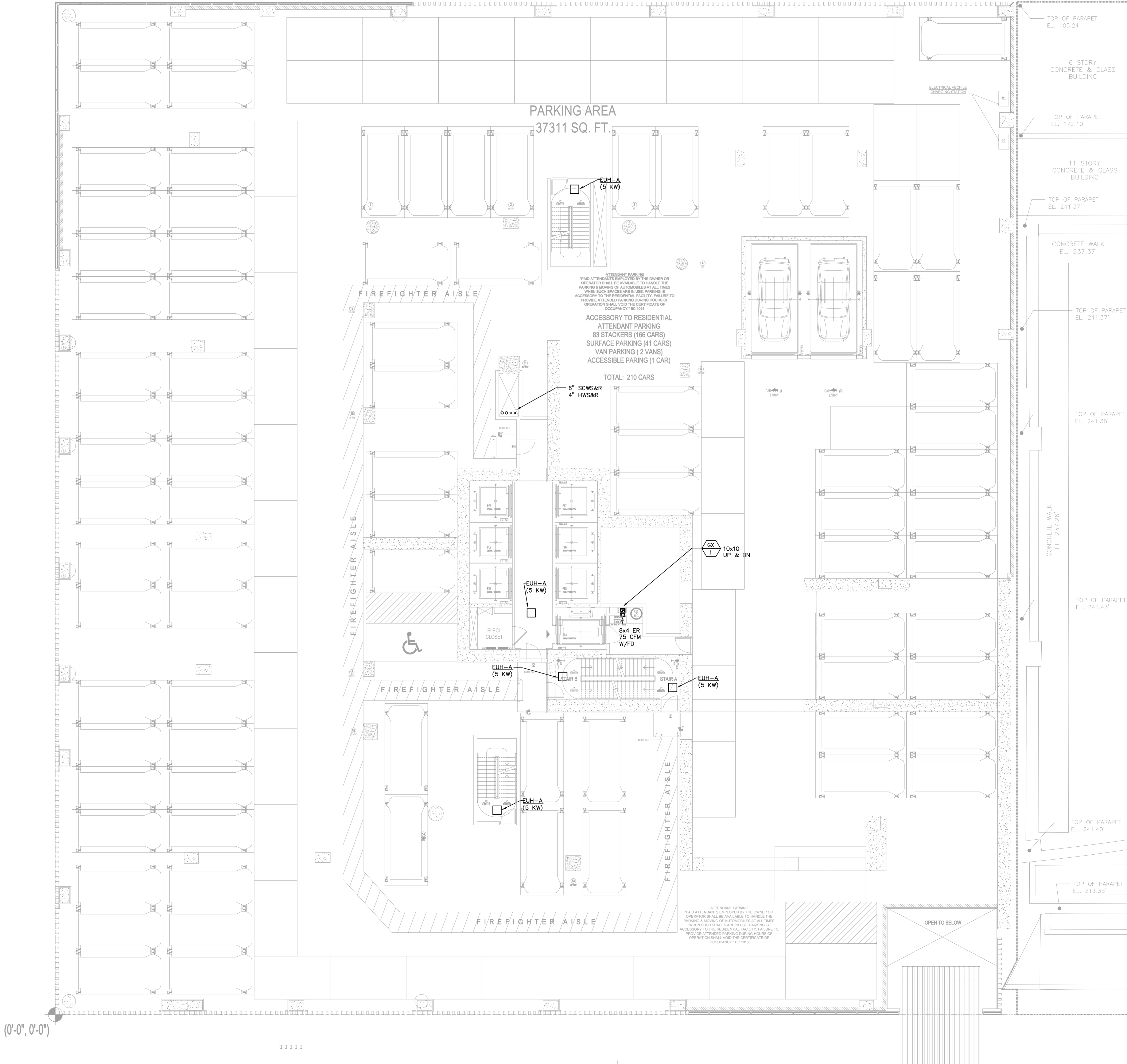
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DOB SCAN

DOB STAMPS & SIGNATURES

OWN TITLE  
**MECHANICAL**  
2ND FLOOR PLAN  
PARKING LEVEL

SCALE & SIGNATURE  
DATE: 10/12/16  
PROJECT #: 150310  
SCALE: 1/8" = 1'-0"  
M-102.00  
OWN NO. X OF X



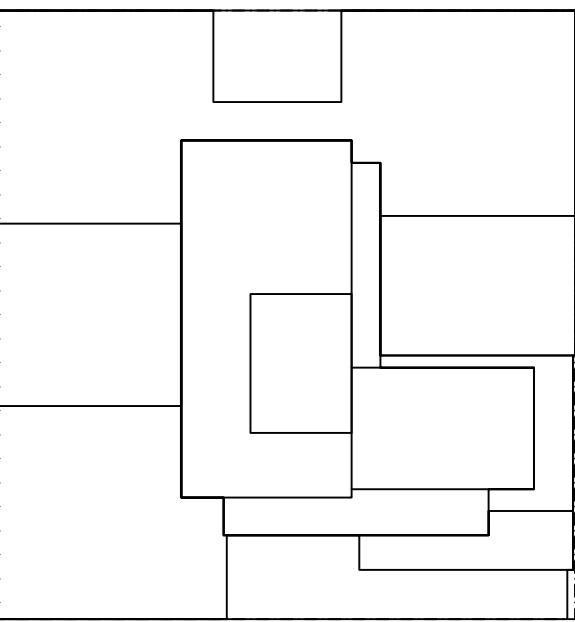
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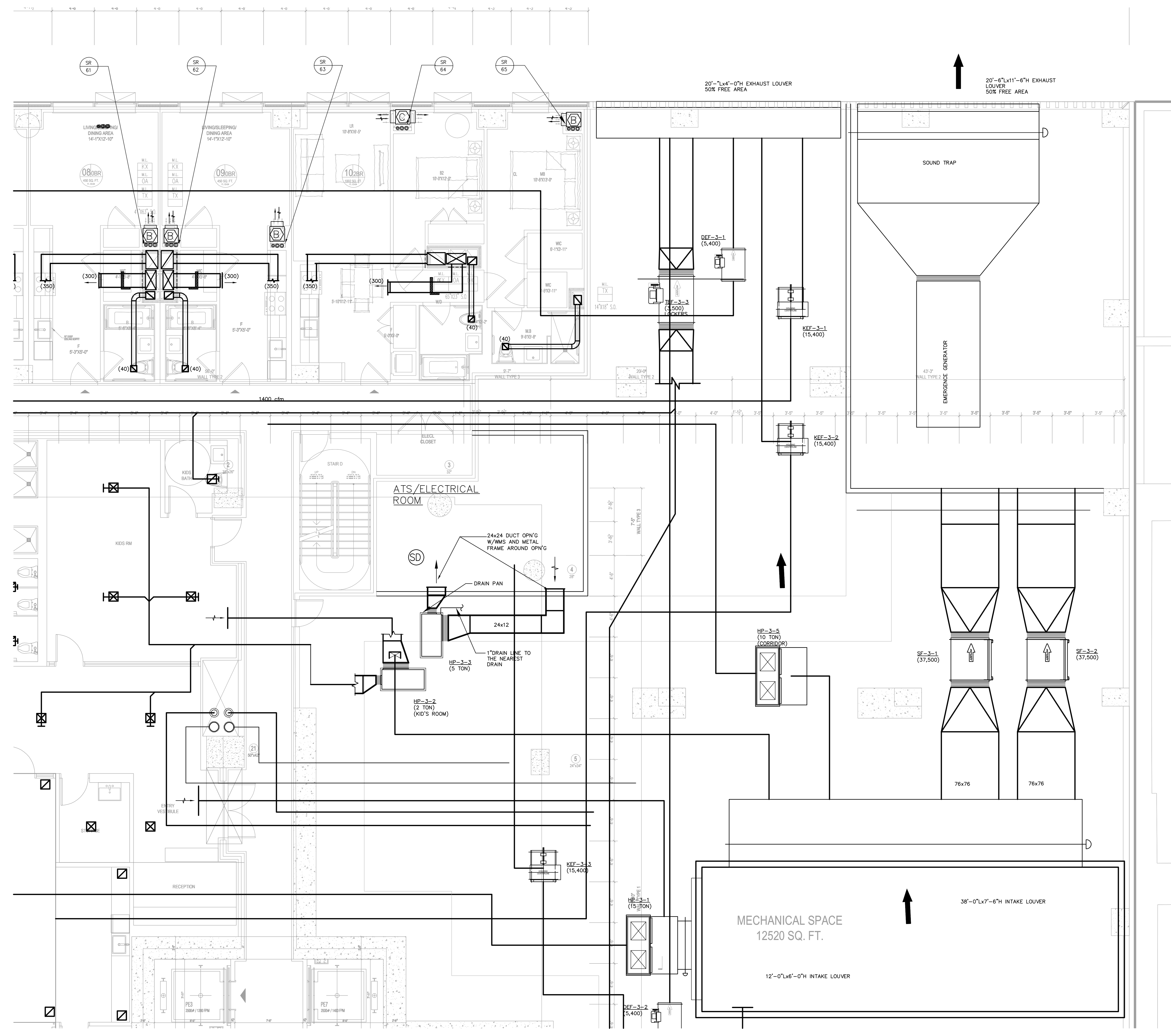
TO THE BEST OF MY KNOWLEDGE, BELIEF AND  
PROFESSIONAL JUDGEMENT, THESE PLANS AND  
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ENERGY CONSERVATION CODE OF NEW YORK CITY  
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KEY PLAN



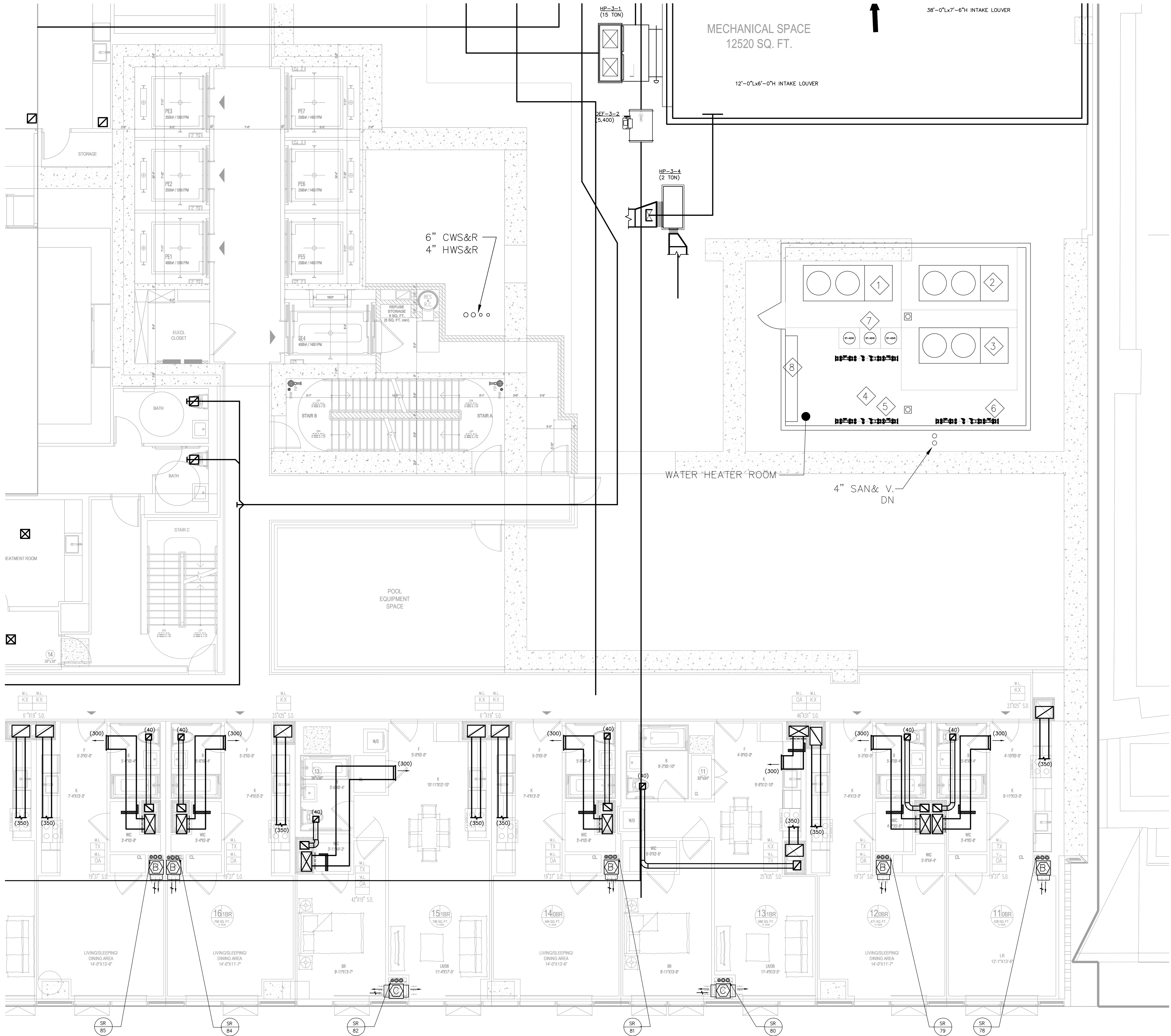
MECHANICAL 3RD LEVEL FLOOR PLAN  
SCALE: 1/4" = 1'-0"

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Number:	Date:	Revision:
10/12/2016	ISSUED FOR DOB	
02/05/2016	DOB FILING SET	
UNITED CONSTRUCTION & DEVELOPMENT GROUP CROP COURT SQUARE PROPERTY OWNER LLC 134-03 35TH AVE, FLUSHING NEW YORK, NY 11554 TEL: (718) 321.8652		
PROJECT NAME: COURT SQUARE		
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<b>GHWA</b> Goldstein, Hill & West Architects, LLP 11 Broadway, Suite 1700 New York, NY 10004 Tel (212) 213-8007 Fax (212) 686-1754		
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DOB SIGN:		
DOB STAMPS & SIGNATURES:		
DWG TITLE MECHANICAL 3RD FLOOR PLAN AEMENTES, MER		
SEAL & SIGNATURE:	DATE:	10/12/16
PROJECT #:	150318	
SCALE:	1/4" = 1'-0"	
DWG NO:	M-103A.00	
X REF		

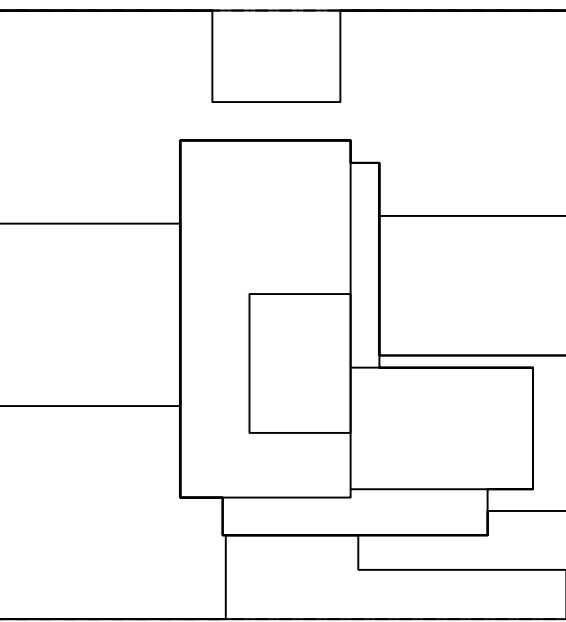


MECHANICAL 3RD LEVEL FLOOR PLAN  
SCALE: 1/4" = 1'-0"

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10/12/2016	ISSUED FOR DOB
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Number: Date: Revision:  
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NEW YORK, NY 11354  
TEL: (718) 321.8652

PROJECT NAME: COURT SQUARE  
ADDRESSES: 23-15 44 DRIVE  
QUEENS, NEW YORK 11101

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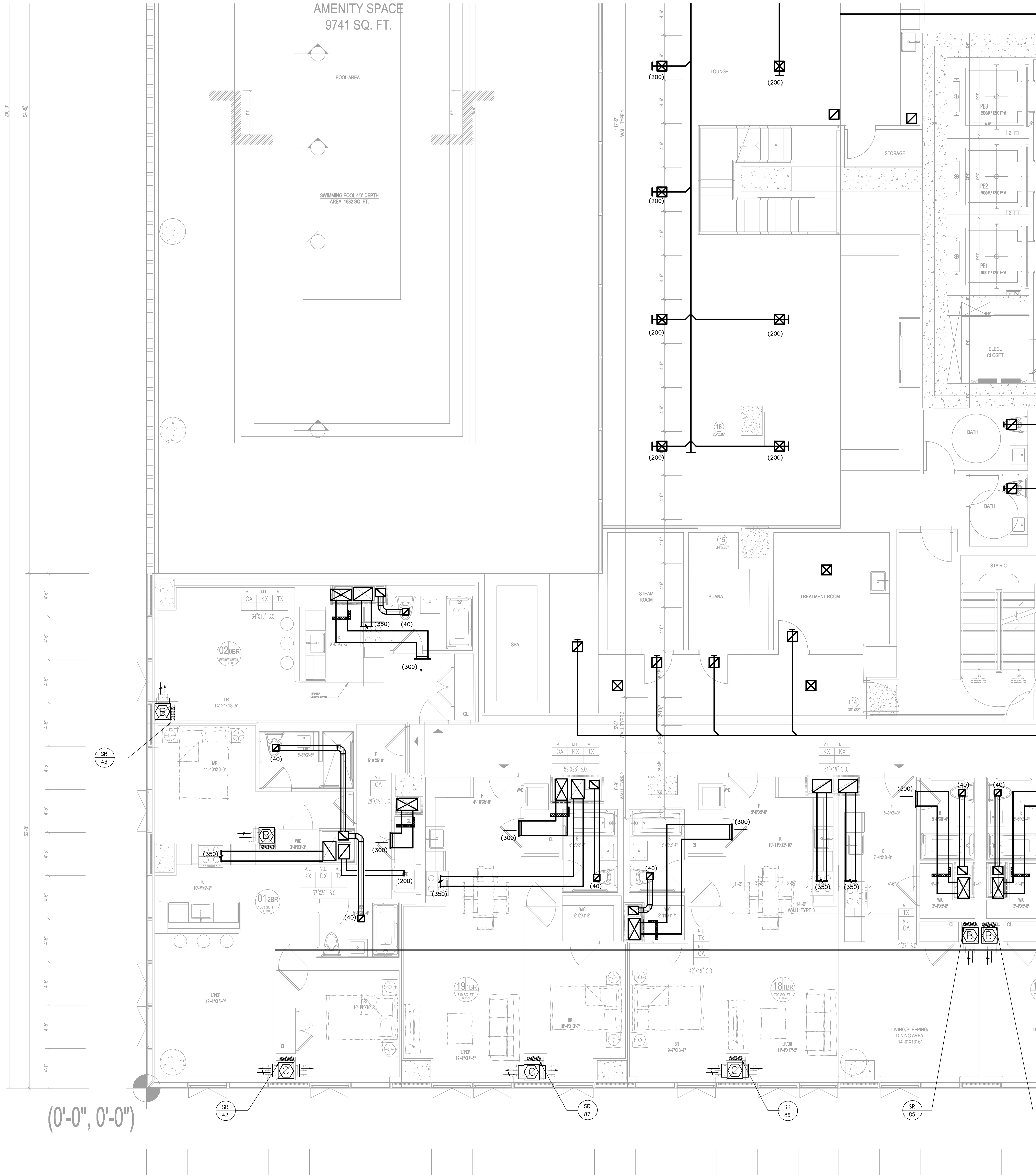
VAN DEUSEN & ASSOCIATES  
120 Eagle Rock Ave, Suite 510  
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Tel (973) 994.9220 Fax (973) 994.2539

DOB SCAN:

DOB STAMPS & SIGNATURES:

DWG TITLE  
MECHANICAL  
3RD FLOOR PLAN  
AMENITIES, MER

DATE: 10/12/16  
PROJECT #: 150318  
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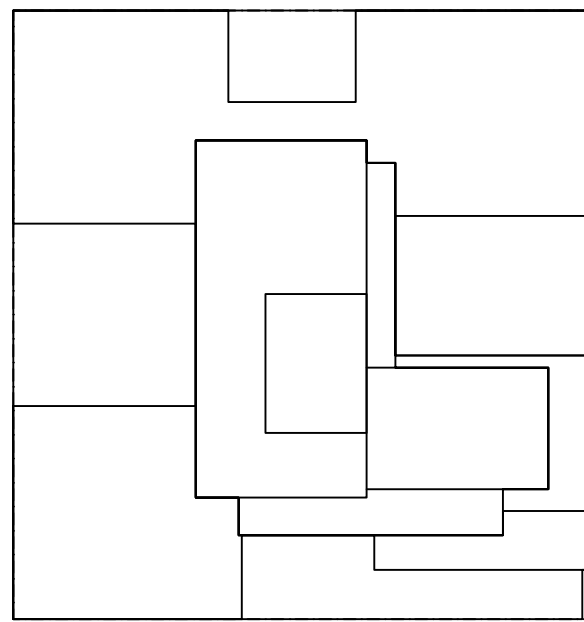


MECHANICAL 3RD LEVEL FLOOR PLAN  
SCALE: 1/4" = 1'-0"

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PROJECT NAME: COURT SQUARE  
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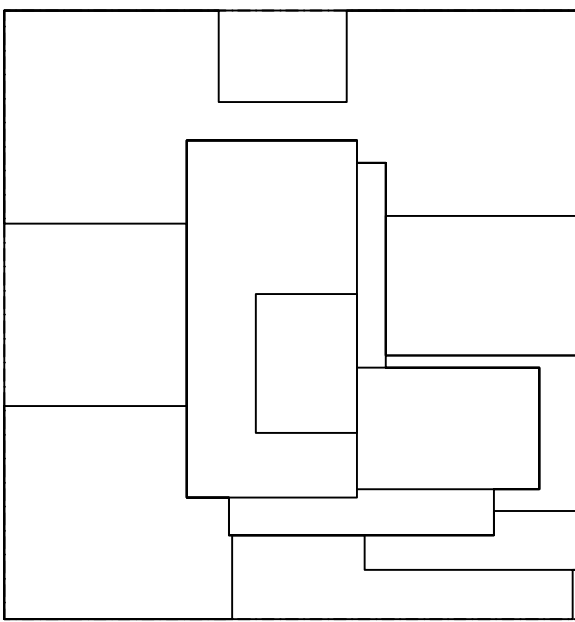
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120 Eagle Rock Ave, Suite 310  
East Hanover, NJ 07936  
Tel (973) 994-9220 Fax (973) 994-2539

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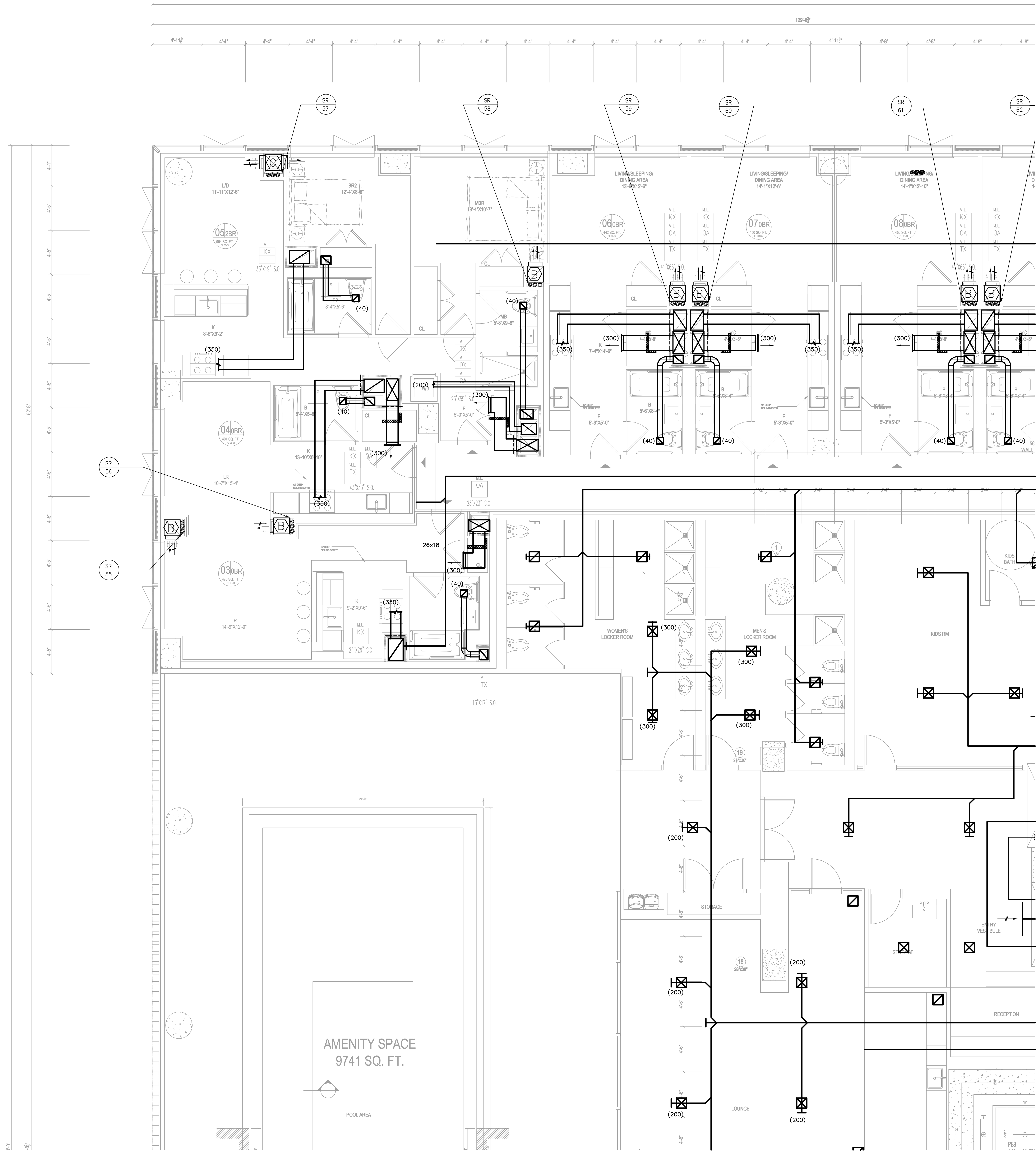
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DWG TITLE  
MECHANICAL  
3RD FLOOR PLAN  
AMENITIES, MER

SEAL & SIGNATURE: DATE: 10/12/16  
PROJECT #: 150318  
SCALE: 1/4" = 1'-0"  
M-103C.00  
DWG NO. X 0000



KEY PLAN



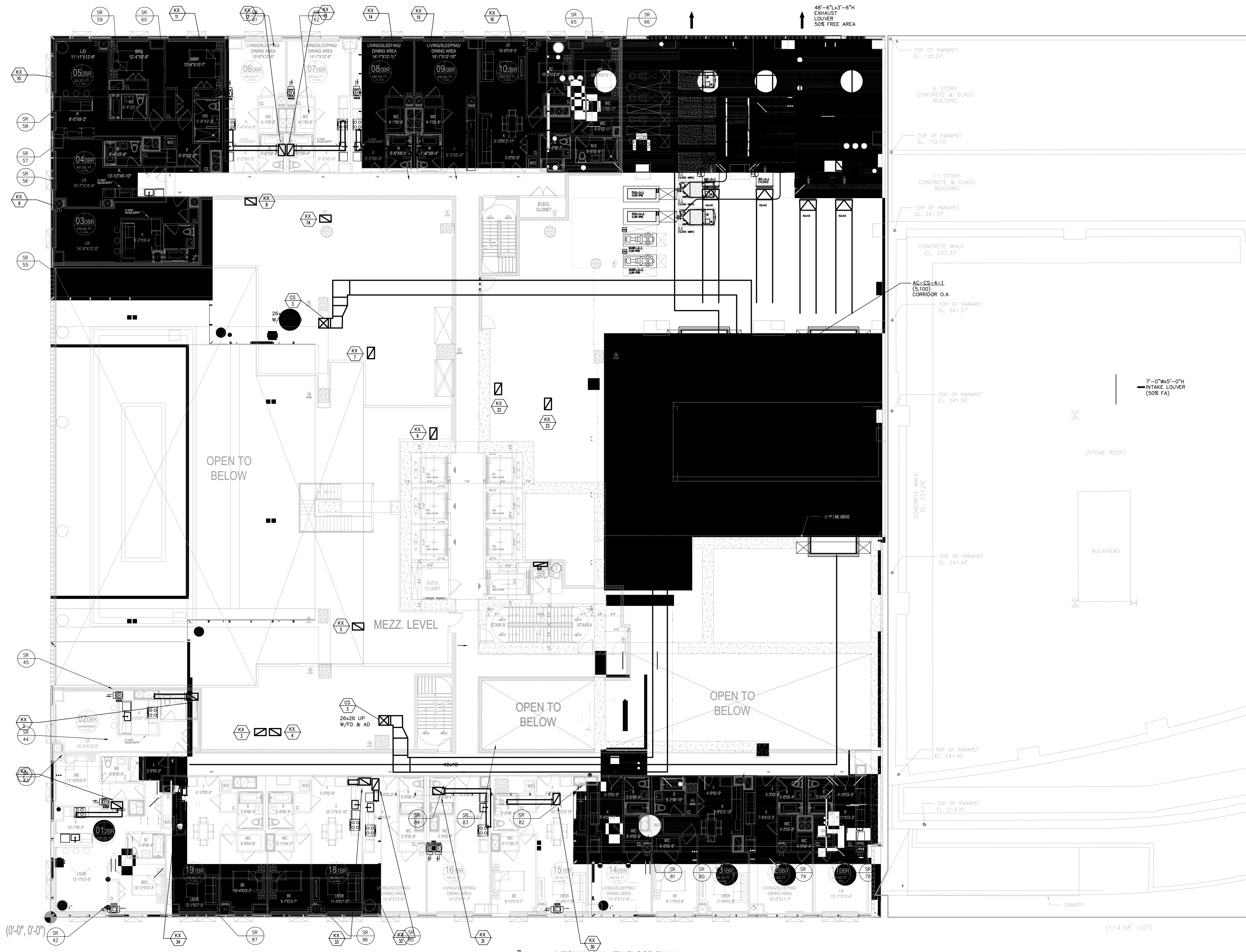
MECHANICAL 3RD LEVEL FLOOR PLAN  
SCALE: 1/4" = 1'-0"

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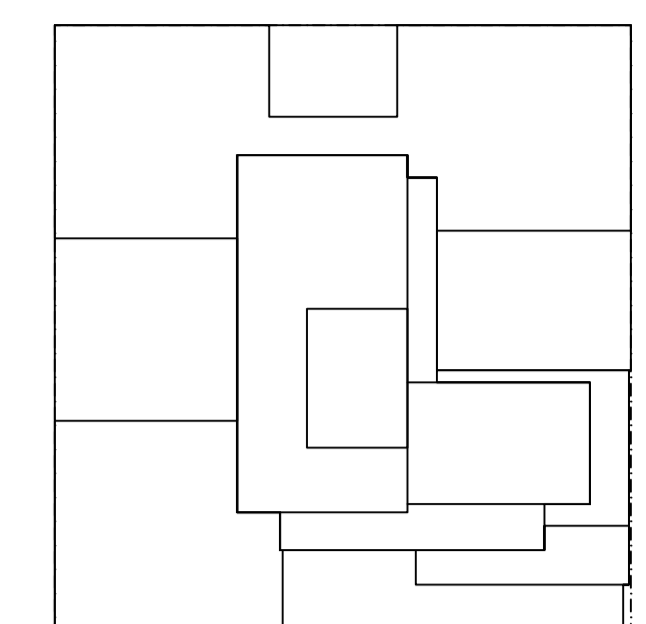
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10/12/2016	ISSUED FOR DOB	
02/05/2016	DOB FLAG SET	
Number:	Date:	Revision:
UNITED CONSTRUCTION & DEVELOPMENT GROUP CROP COURT SQUARE PROPERTY OWNER LLC 134-03 35TH AVE, FLUSHING NEW YORK, NY 1154 TEL. (718) 321.8652		
PROJECT NAME: COURT SQUARE		
ADDRESSES: 23-15 44 DRIVE QUEENS, NEW YORK 11101		
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DOB ESCAL:		
DOB STAMPS & SIGNATURES:		
DWG TITLE MECHANICAL 3RD FLOOR PLAN AMENITIES, MER		
SEAL & SIGNATURE: 	DATE: 10/12/16	PROJECT #: 1503018
SCALE: 1/4" = 1'-0"		DWG NO: M-103D.00
		X 0000



MECHANICAL 4TH FLOOR PLAN  
SCALE: 3/8"=1'-0"



KEY PLAN

10/12/2016 ISSUED FOR DOB  
12/25/2016 DOB FILING SET

Number Date Revision  
UNITED CONSTRUCTION & DEVELOPMENT GROUP CROP  
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NEW YORK, NY 11354  
TEL (718) 321.8662

PROJECT NAME: COURT SQUARE  
ADDRESS: 23-15 44 DRIVE  
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DOB SCAN

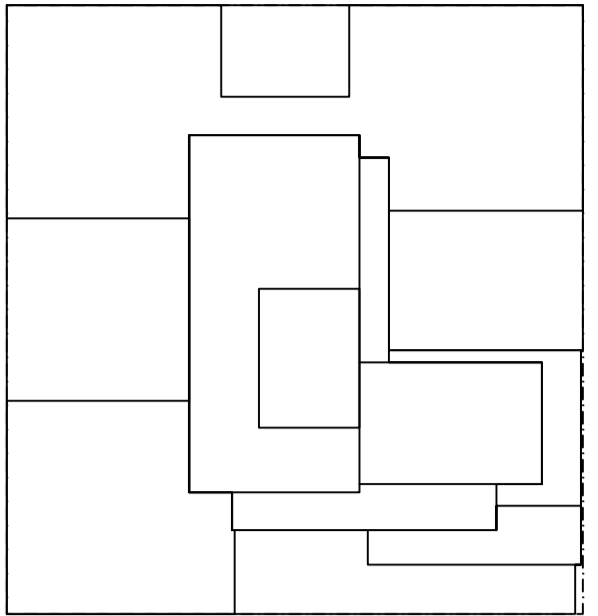
DOB STAMPS & SIGNATURES

DWG TITLE  
MECHANICAL  
4TH FLOOR PLANS  
LOWER LEVEL

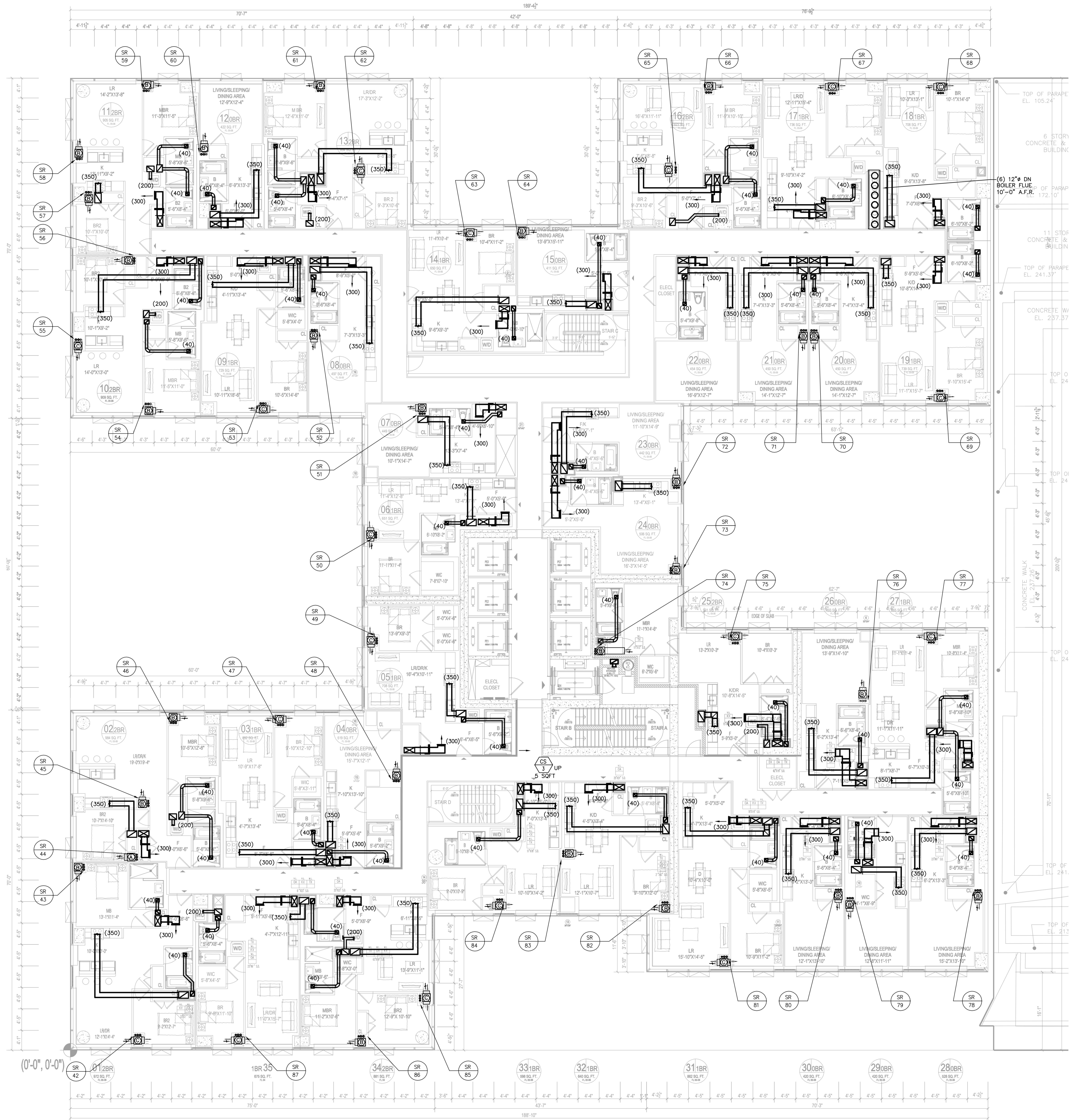
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PROJECT #: 150318  
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DWG NO. x 08x

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KEY PLAN



MECHANICAL 6TH FLOOR PLAN  
SCALE: 1/8" = 1'-0"

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Number: 23-15 44 DRIVE  
Date: 10/12/16  
Revision: 10/12/16  
ISSUED FOR DOB  
DOB FILING SET

PROJECT NAME: COURT SQUARE  
ADDRESS: 23-15 44 DRIVE  
QUEENS, NEW YORK 11101

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New York, NY 10121  
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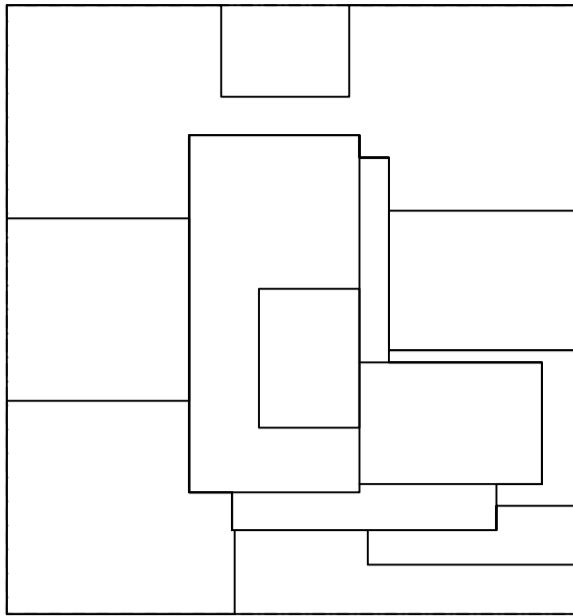
VAN DEUSEN & ASSOCIATES  
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DOB SCAN

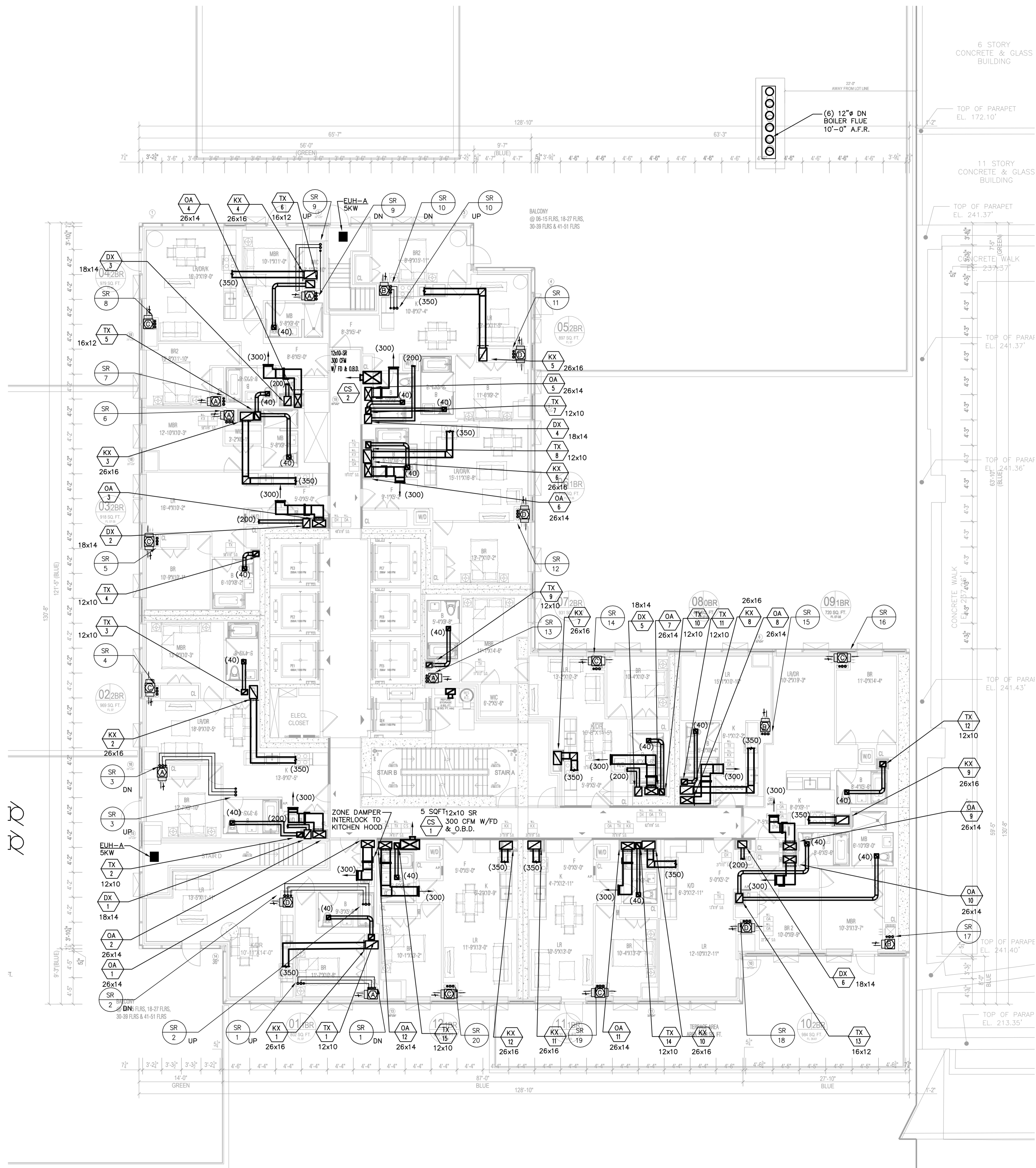
DOB STAMPS & SIGNATURES

DWG TITLE  
MECHANICAL  
6TH FLOOR PLAN  
LOWER LEVEL

SCALE & SIGNATURE  
DATE: 10/12/16  
PROJECT #: 150318  
SCALE: 1/8" = 1'-0"  
M-106.00  
DWG NO. 106 X 08 X



KEY PLAN



MECHANICAL 7TH FLOOR PLAN  
SCALE: 1/8" = 1'-0"

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Number: 10/12/2016 Date: 10/12/2016  
Revision: 02/05/2016  
ISSUED FOR DOB  
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PROJECT NAME: COURT SQUARE  
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New York, NY 10121  
Tel (212) 615.3999 Fax (212) 615.3700

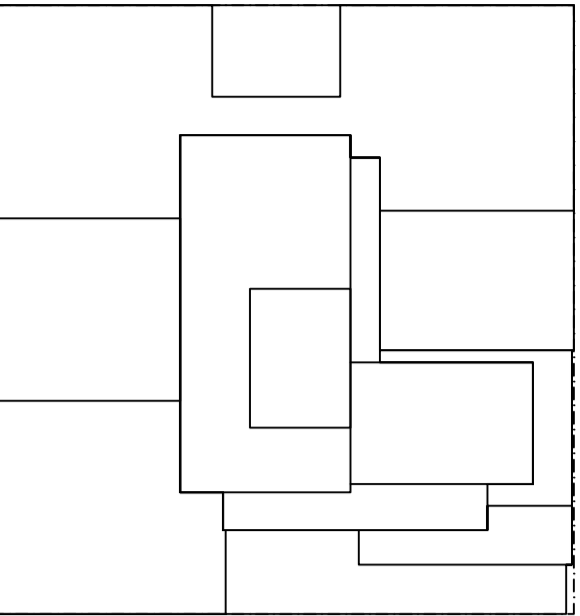
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Tel (973) 994.9220 Fax (973) 994.2539

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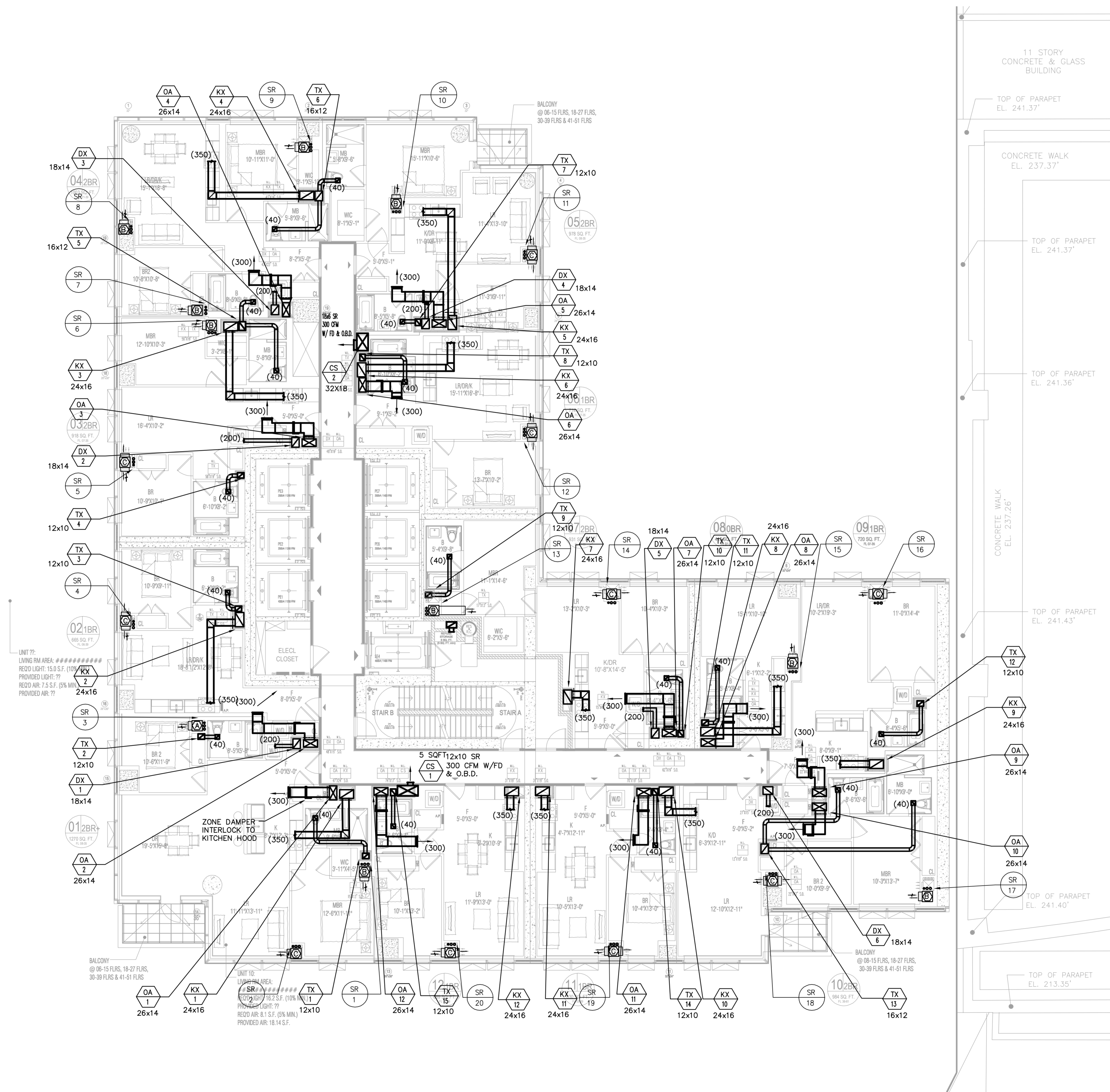
DOB STAMPS & SIGNATURES

OWN TITLE  
MECHANICAL  
7TH FLOOR PLAN  
LOWER LEVEL

SEAL & SIGNATURE: [Signature]  
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PROJECT #: 150318  
SCALE: 1/8" = 1'-0"  
M-107.00  
OWNED BY: [Signature]  
X 08X



KEY PLAN



MECHANICAL 8TH - 19TH FLOOR PLAN  
SCALE: 1/8"=1'-0"

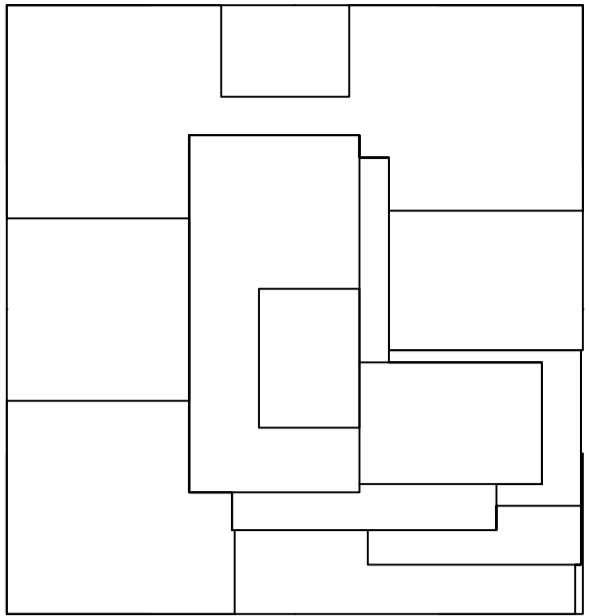
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE ENERGY CONSERVATION CODE OF NEW YORK CITY 2016

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SEAL & SIGNATURE: [Signature] DATE: 10/12/16  
PROJECT #: 150318  
SCALE: 1/8"=1'-0"  
M-108.00  
DWG NO. x 08x





10/12/2016 ISSUED FOR DOB  
02/05/2016 DOB FILING SET

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COURT SQUARE  
PROPERTY OWNER LLC  
134-03 35TH AVE, FLUSHING  
NEW YORK, NY 11354  
TEL: (718) 321.8662

PROJECT NAME: COURT SQUARE  
ADDRESS: 23-15 44 DRIVE  
QUEENS, NEW YORK 11101

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120 Eagle Rock Ave, Suite 310  
East Hanover, NJ 07936  
Tel (973) 994.9220 Fax (973) 994.2539

DOB SCAN

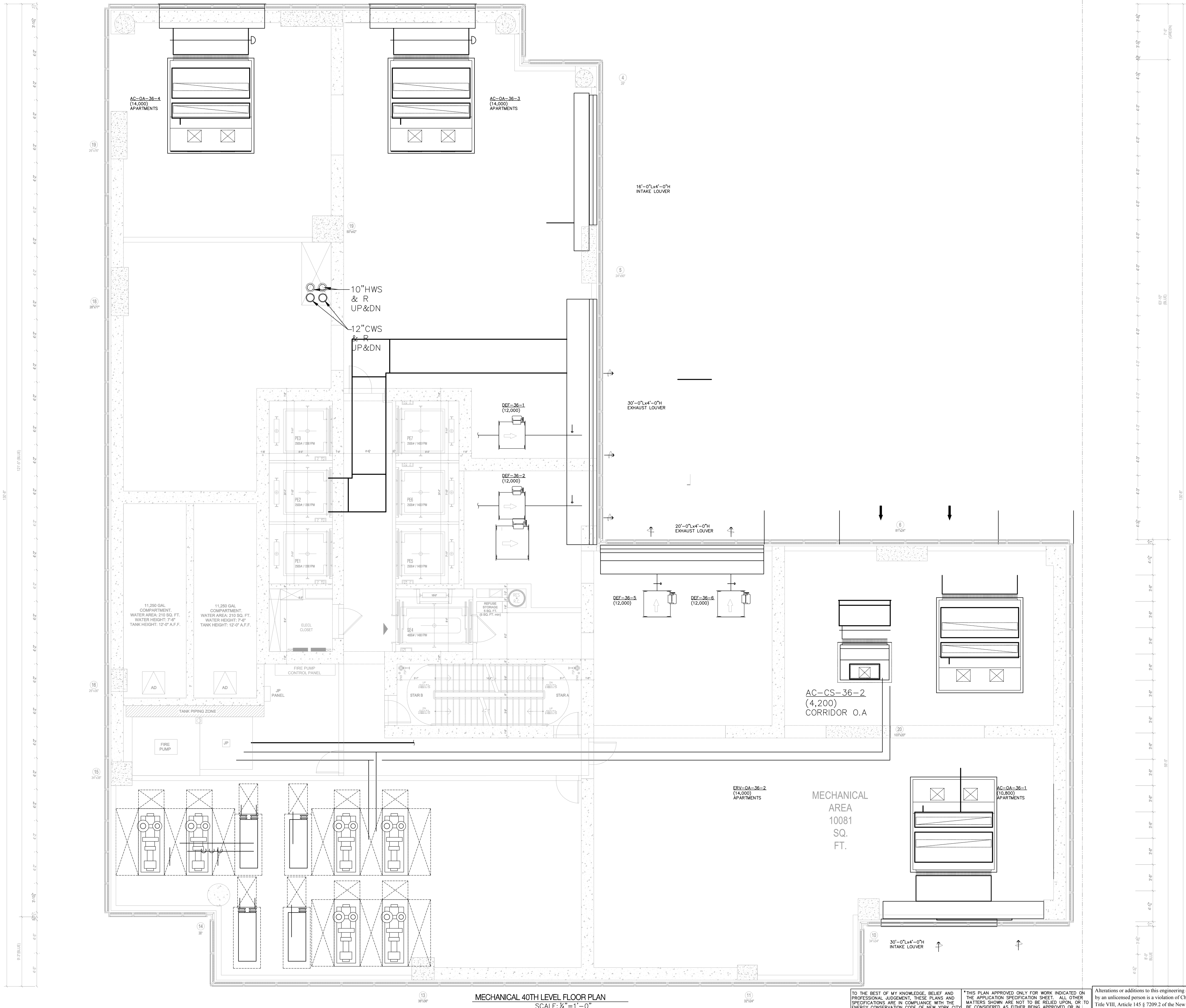
DOB STAMPS & SIGNATURES

DWG TITLE  
MECHANICAL  
36TH FLOOR PLAN

MER

SEAL & SIGNATURE: DATE: 10/12/16  
PROJECT #: 150318  
SCALE: 1/4" = 1'-0"

M-110.00  
DWG NO. 08

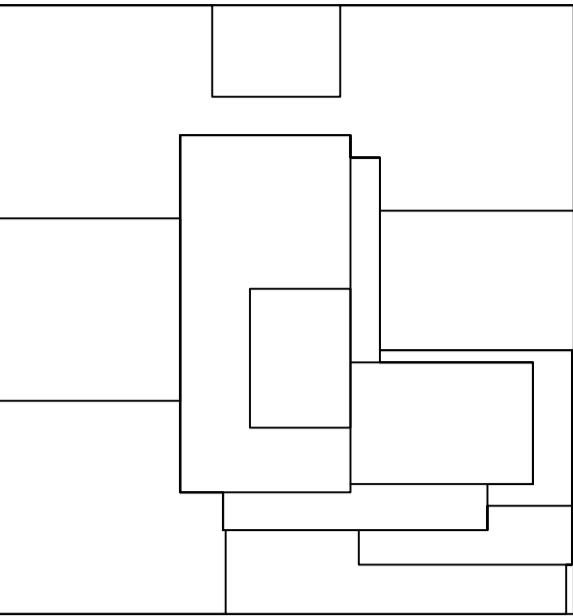


MECHANICAL 40TH LEVEL FLOOR PLAN  
SCALE: 1/4" = 1'-0"

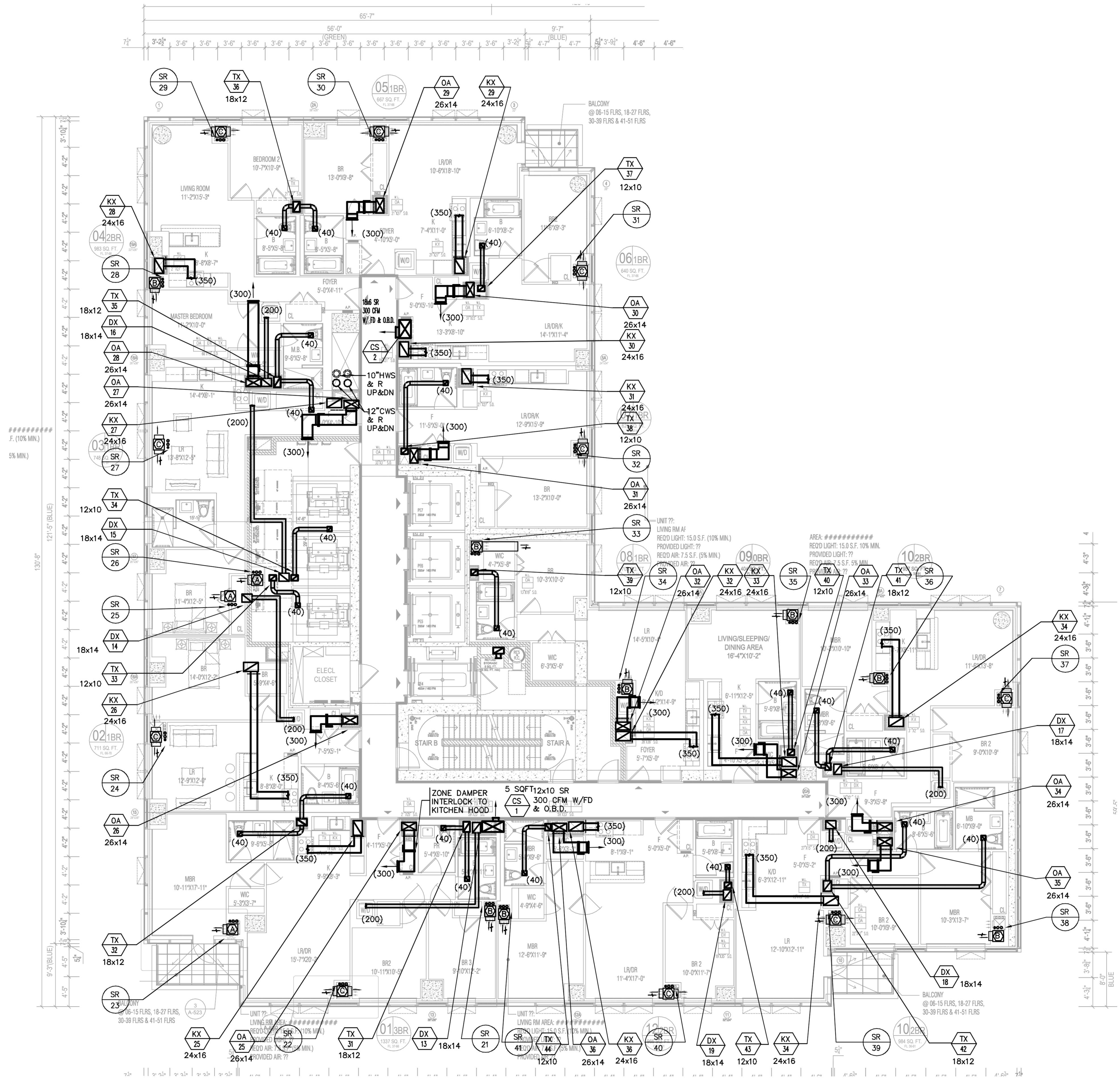
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE ENERGY CONSERVATION CODE OF NEW YORK CITY 2016

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KEY PLAN



MECHANICAL 37TH FLOOR PLAN  
SCALE: 1/8" = 1'-0"

10/12/2016 ISSUED FOR DOB  
02/05/2016 DOB FILING SET

Number Date Revision  
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COURT SQUARE  
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NEW YORK, NY 11554  
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PROJECT NAME: COURT SQUARE  
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QUEENS, NEW YORK 11101

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120 Eagle Rock Ave, Suite 310  
East Hanover, NJ 07936  
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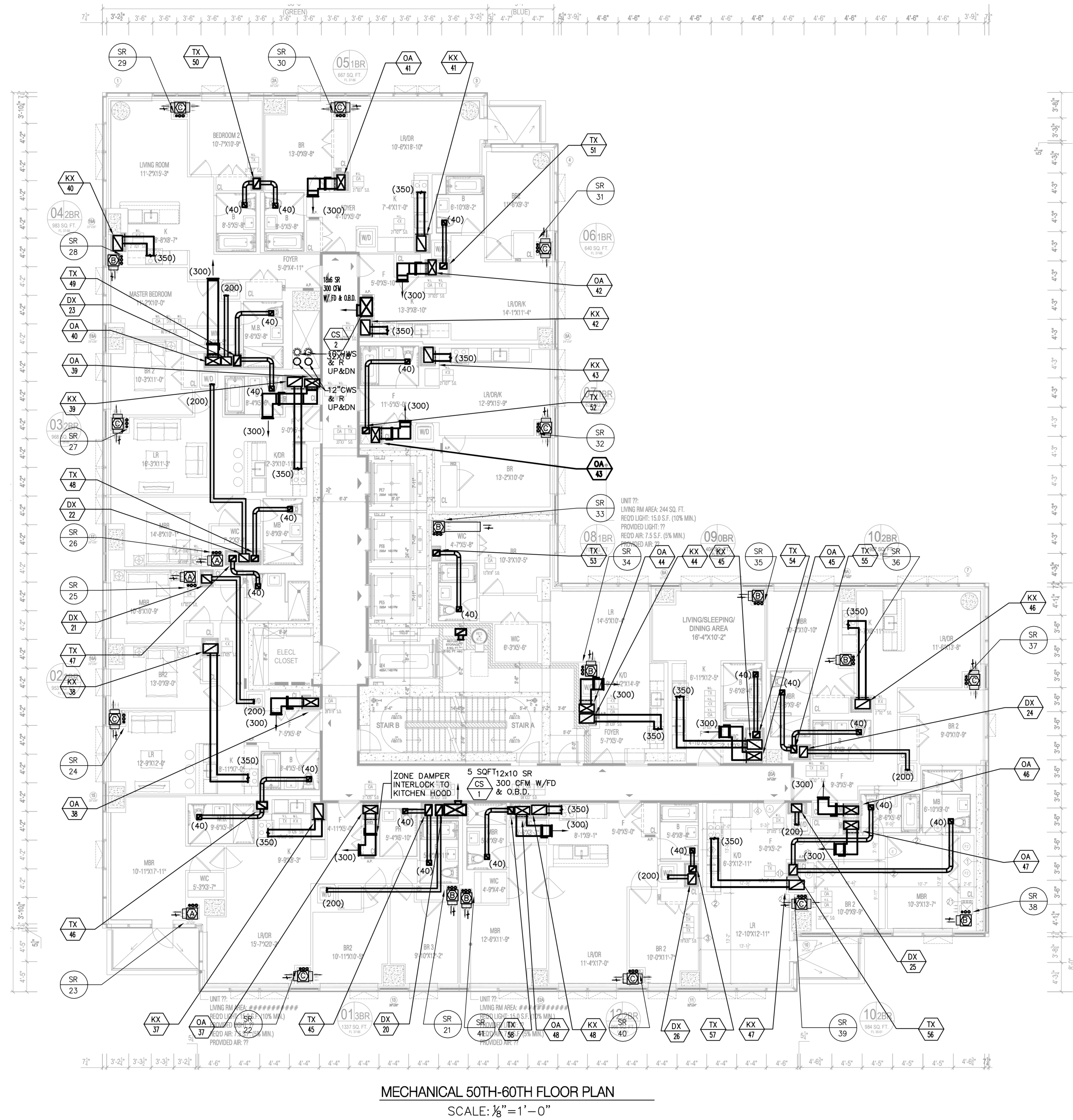
DOB SCAN

DOB STAMPS & SIGNATURES

DWG TITLE  
MECHANICAL  
37TH FLOOR PLAN  
MID LEVEL

SEAL & SIGNATURE: DATE: 10/12/16  
PROJECT #: 150318  
SCALE: 1/8" = 1'-0"  
M-111.00  
DWG NO. x 08x





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Number: \_\_\_\_\_ Date: \_\_\_\_\_ Revision: \_\_\_\_\_

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**PROPERTY OWNER LLC**

**134-03 35TH AVE, FLUSHING**

**NEW YORK, NY 1154**

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ST NAME: **COURT SQUARE**  
 SSES: 23-15 44 DRIVE  
 QUEENS, NEW YORK 11101

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East Hanover, NJ. 07936  
Tel (973) 994.9220 Fax (973) 994.2539

**CAN**

**CAMPS & SIGNATURES:**

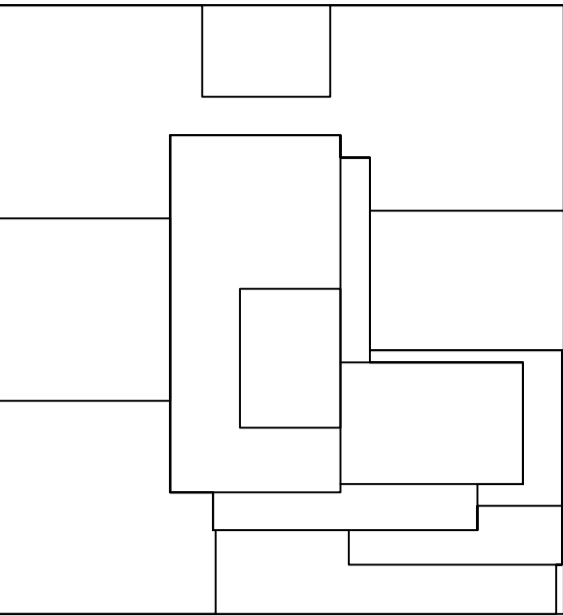
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51ST-61ST FLOOR PLAN

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	DWG NO.	

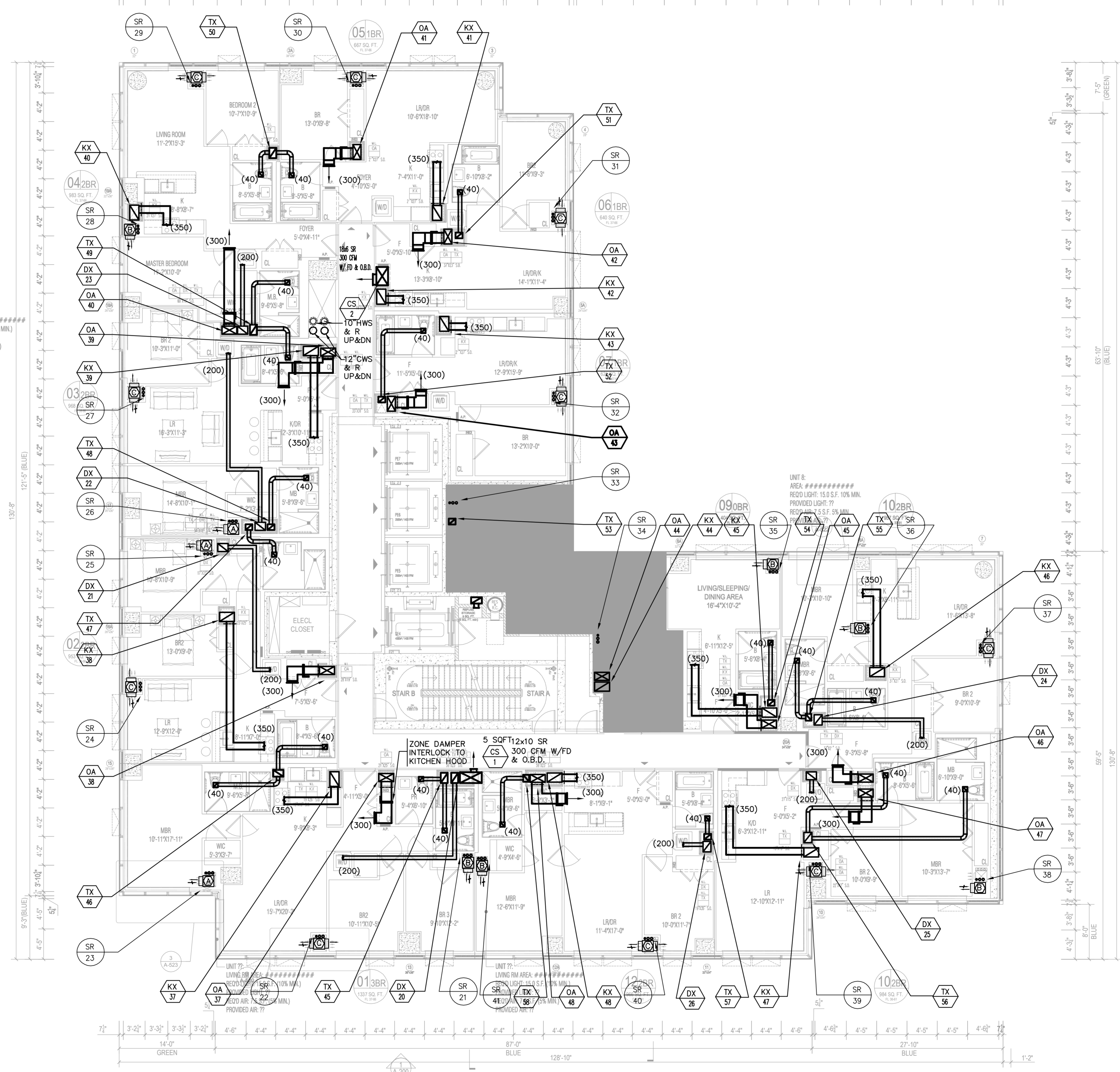
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PROFESSIONAL JUDGEMENT, THESE PLANS AND  
SPECIFICATIONS ARE IN COMPLIANCE WITH THE  
ENERGY CONSERVATION CODE OF NEW YORK  
2016

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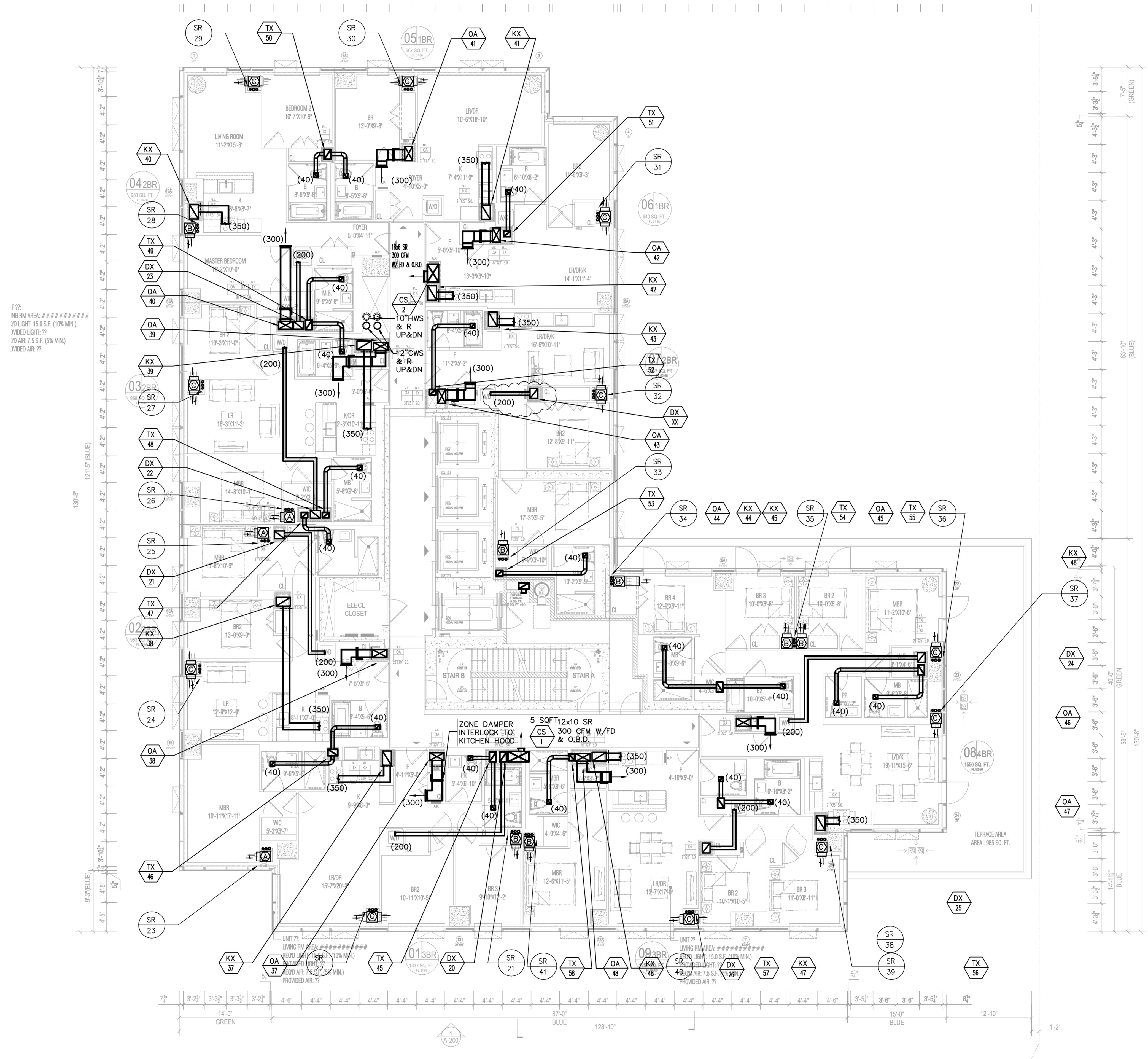
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# KEY PLAN




MECHANICAL 61ST FLOOR PLAN  
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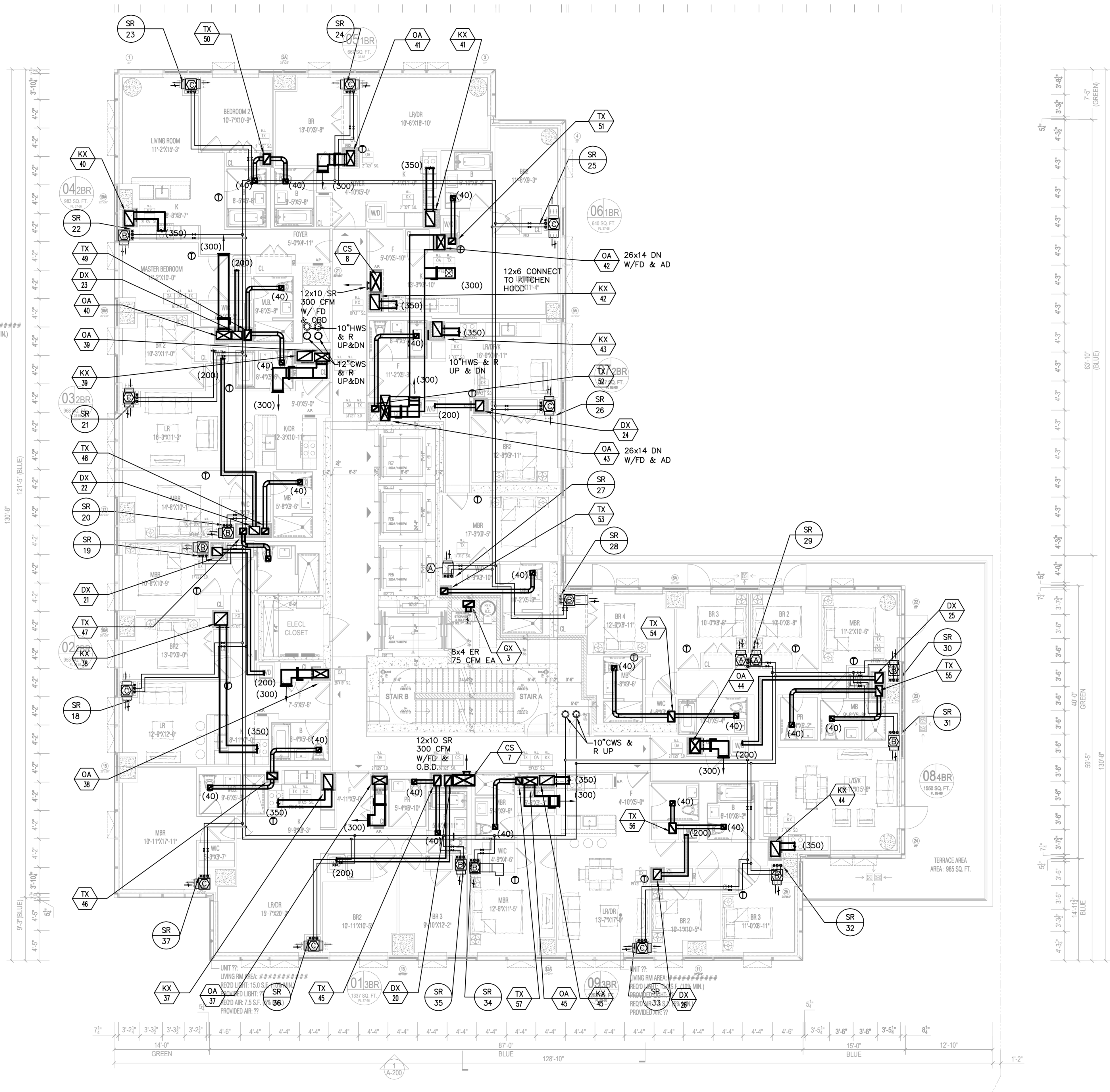


MECHANICAL 62ND-66TH FLOOR PLAN  
SCALE:  $\frac{1}{8}" = 1'-0"$

<p>TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE ENERGY CONSERVATION CODE OF NEW YORK CITY 2016</p>	<p>* THIS PLAN APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELETED, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES*</p>	<p>Alterations or additions to this engineering document by an unlicensed person is a violation of Chapter 16, Title VIII, Article 145 § 7209.2 of the New York State Education Law.</p>
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	PROJECT #: 150318
	SCALE: 1/8" = 1'-0"
	<div style="font-size: 2em; font-weight: bold;">M-115.00</div>
DWS NO.	x OF x



MECHANICAL 62ND-66TH FLOOR PLAN  
SCALE:  $\frac{1}{8}" = 1'-0"$

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ONE NO. x OF x



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SCAN

**TAMPS & SIGNATURES:**


MECHANICAL  
67TH FLOOR PLAN

MFR

DATE	10
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
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STATE OF NEW YORK  
JUL 15 1964



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M-1170

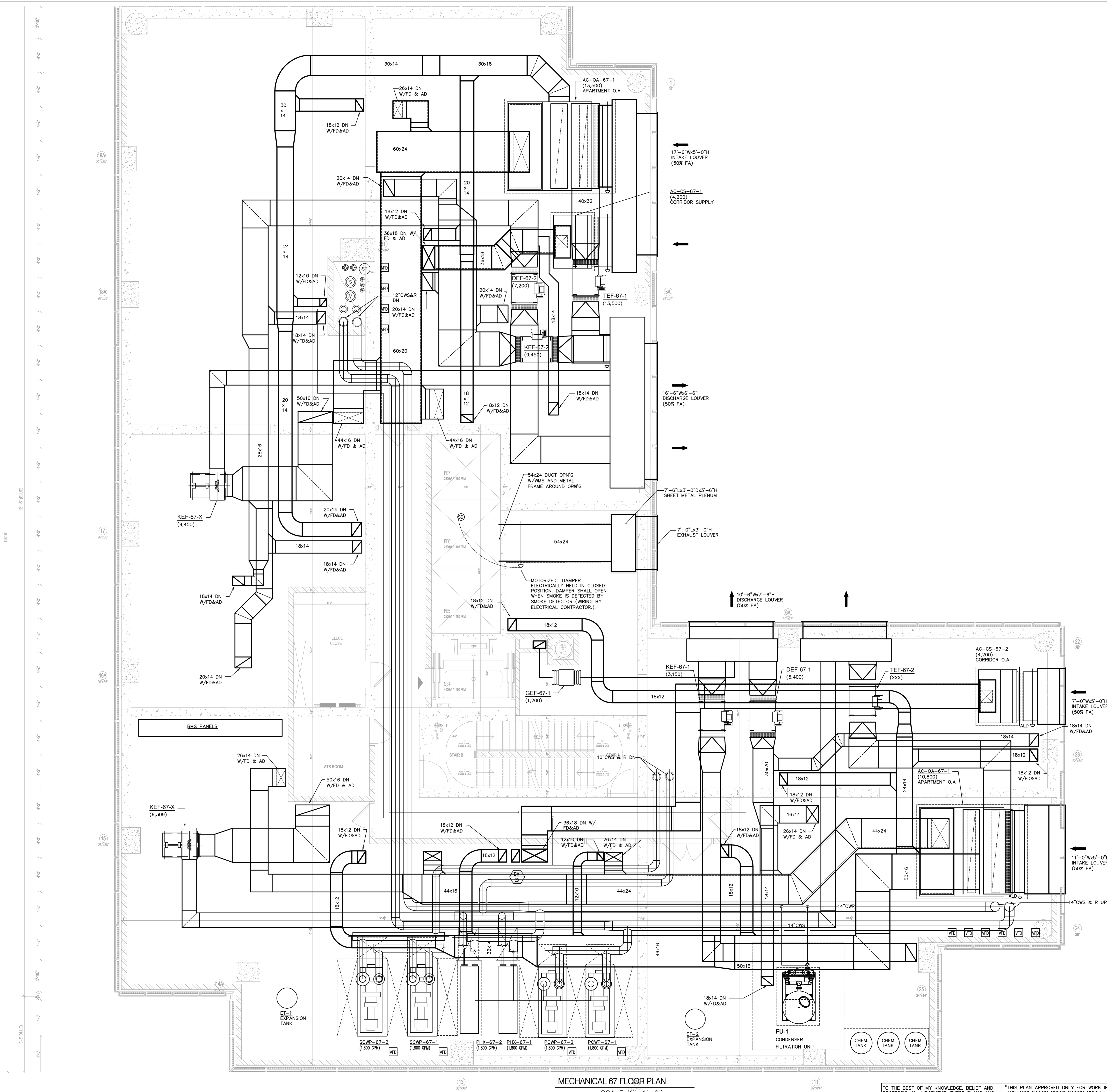


No. 50575  
 PROFESSIONAL ENGINEER

IV-117.0

DWG NO.	0
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MECHANICAL 67 FLOOR PLAN  
SCALE:  $\frac{1}{4}" = 1'-0"$

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DATE:	10
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SCALE:	1/4"
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DWG NO.:	x 0



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Number	Date	Revisions
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COURT SQUARE  
PROPERTY OWNER LLC  
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COB BSC

DOB STAMPS &amp; SIGNATURE

DWG TITLE

MECHANICAL  
MAIN ROOF PLAN

MER

SEAL & SIGNATURE:	DATE:
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PROJECT #:



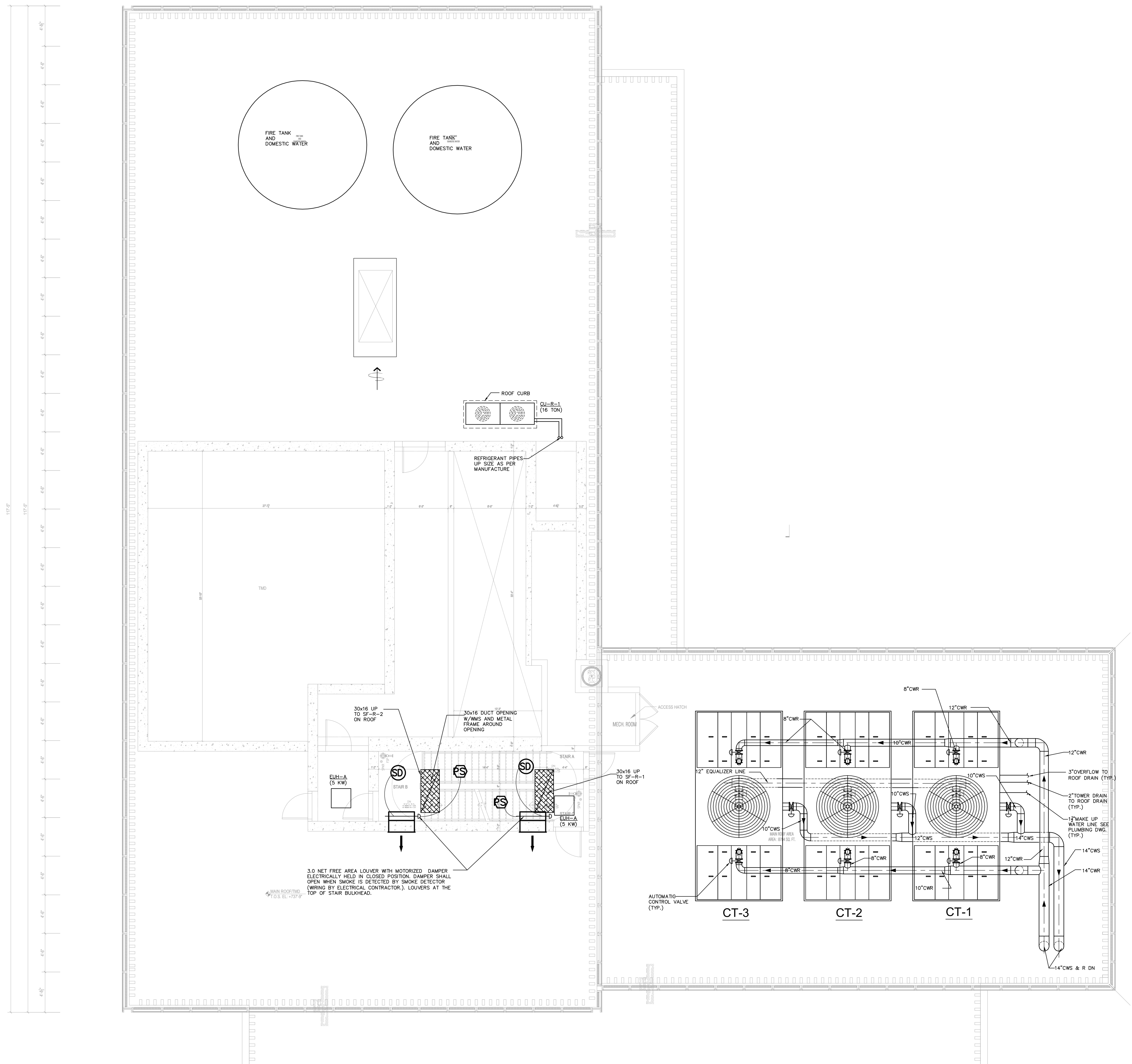
SCALE: 1/4" = 1'

M 118


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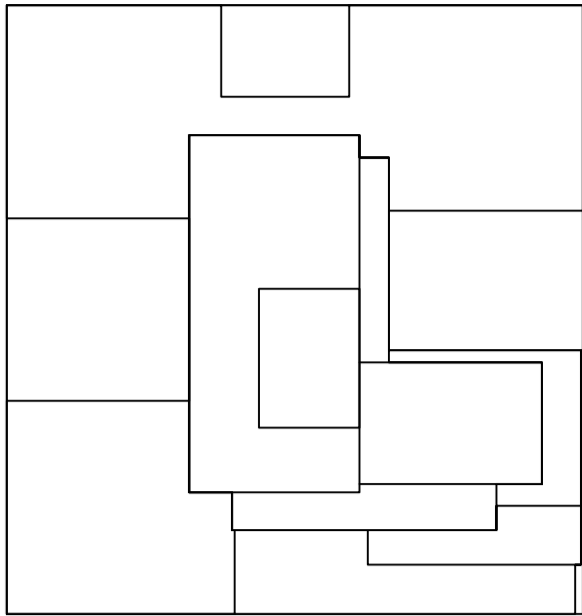
MECHANICAL MAIN ROOF PLAN  
SCALE:  $\frac{1}{4}" = 1'-0"$

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	DWG NO.  



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PROJECT NAME: COURT SQUARE  
ADDRESS: 23-15 44 DRIVE  
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DOB SCAN

DOB STAMPS & SIGNATURES

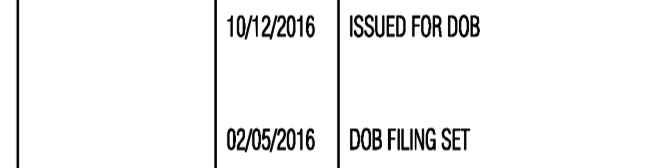
DWG TITLE  
MECHANICAL  
MER PLAN  
HIGH LEVEL

SEAL & SIGNATURE: DATE: 10/12/16  
PROJECT #: 150318  
SCALE: 1/8" = 1'-0"  
M-119.00  
DWG NO. X 06X

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PROJECT NAME: **COURT SQUARE**

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DOB BSCAN:

DOB STAMPS &amp; SIGNATURES:

DWG TITLE

SEAL & SIGNATURE:	DATE: 1
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	PROJECT #:



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M 300


**ME-300.**

	DWG NO.
	X 1

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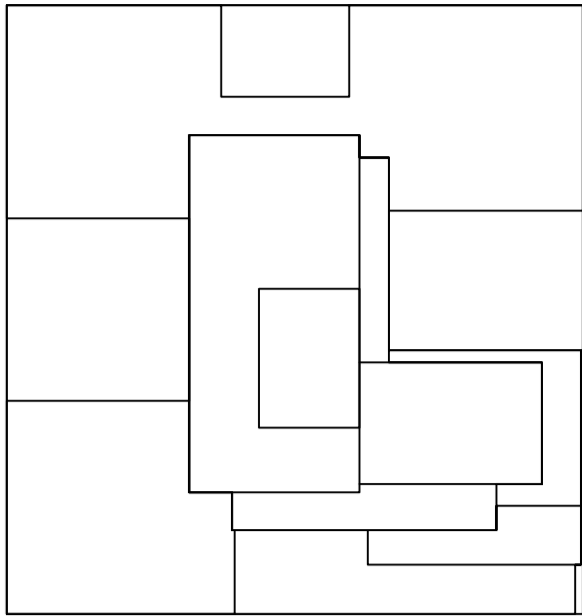
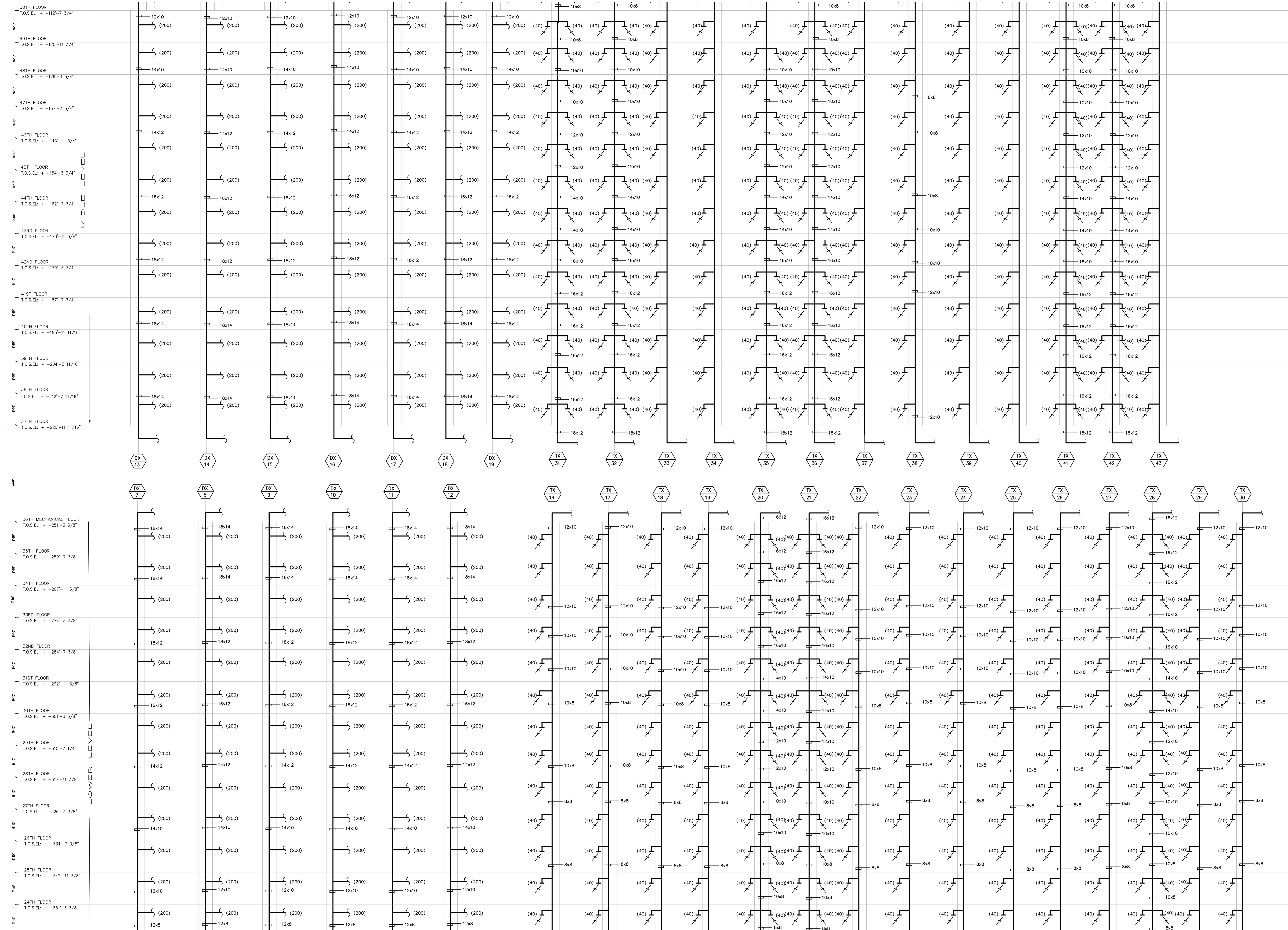
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2016

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FOR CONTINUATIONS SEE M-306



KEY PLAN

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Number: Date: Revision:  
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NEW YORK, NY 11354  
TEL (718) 321.8662

PROJECT NAME: COURT SQUARE  
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DOB SCAN

DOB STAMPS & SIGNATURES

OWN TITLE

MECHANICAL  
TOILET AND DRYER EXHAUST  
RISER DIAGRAM #2

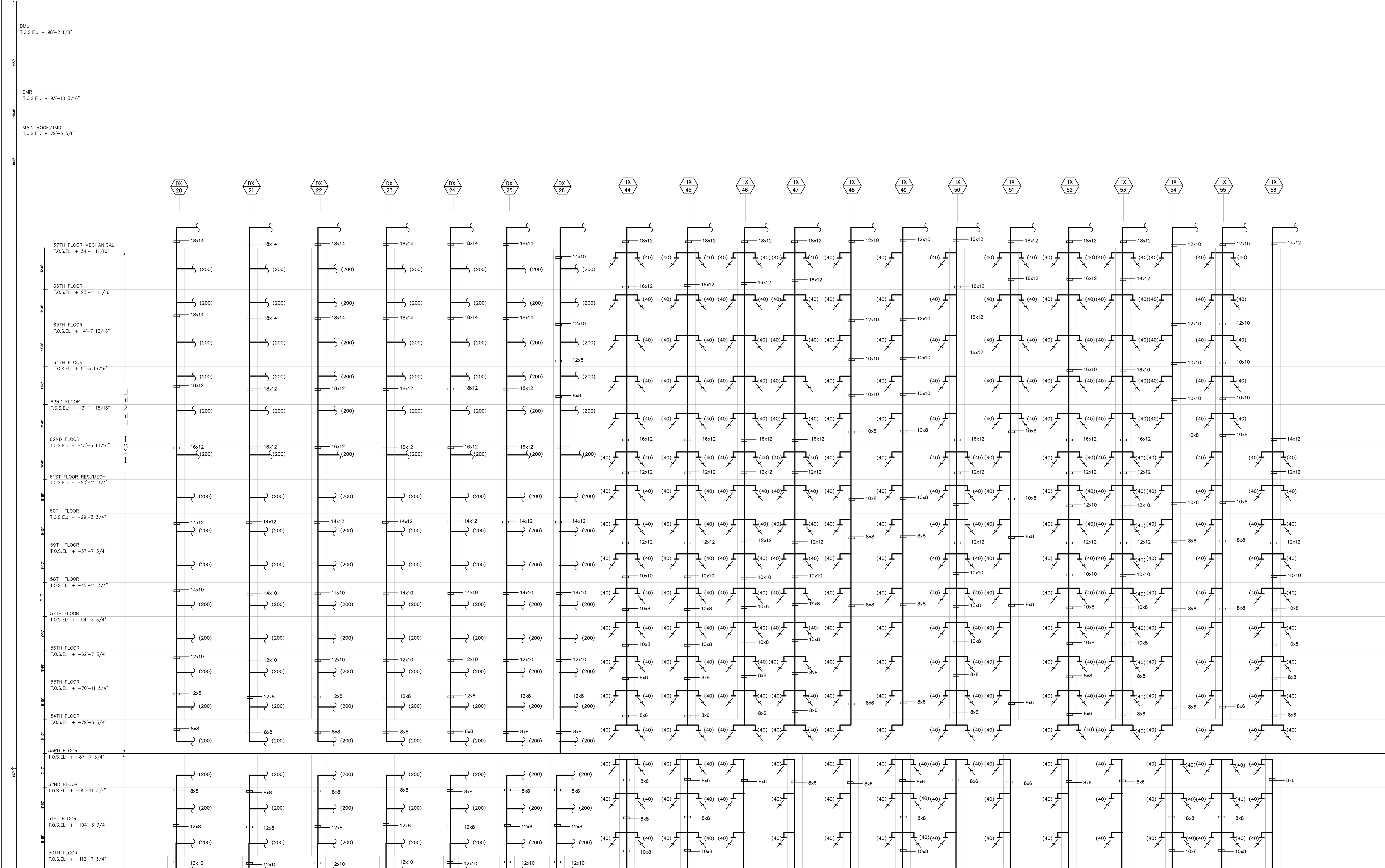
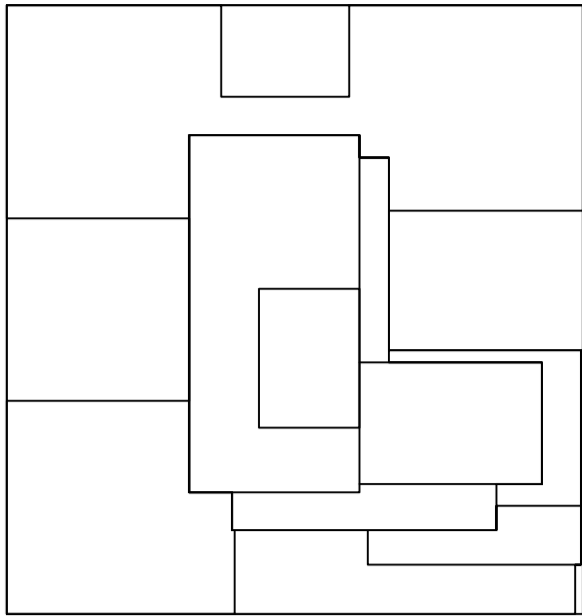
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DATE: 10/12/16  
PROJECT #: 150316

SEAL & SIGNATURE:   
M-305.00  
OWN NO. X OF X

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Number: 23-15 44 DRIVE  
Date: 10/12/2016  
Revision: 10/12/2016

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DOB SCAN

DOB STAMPS & SIGNATURES

OWN TITLE

MECHANICAL  
TOILET & DRYER EXHAUST  
RISER DIAGRAM #3

SEAL & SIGNATURE: [Signature]

DATE: 10/12/16

PROJECT #: 150316

SCALE: NONE

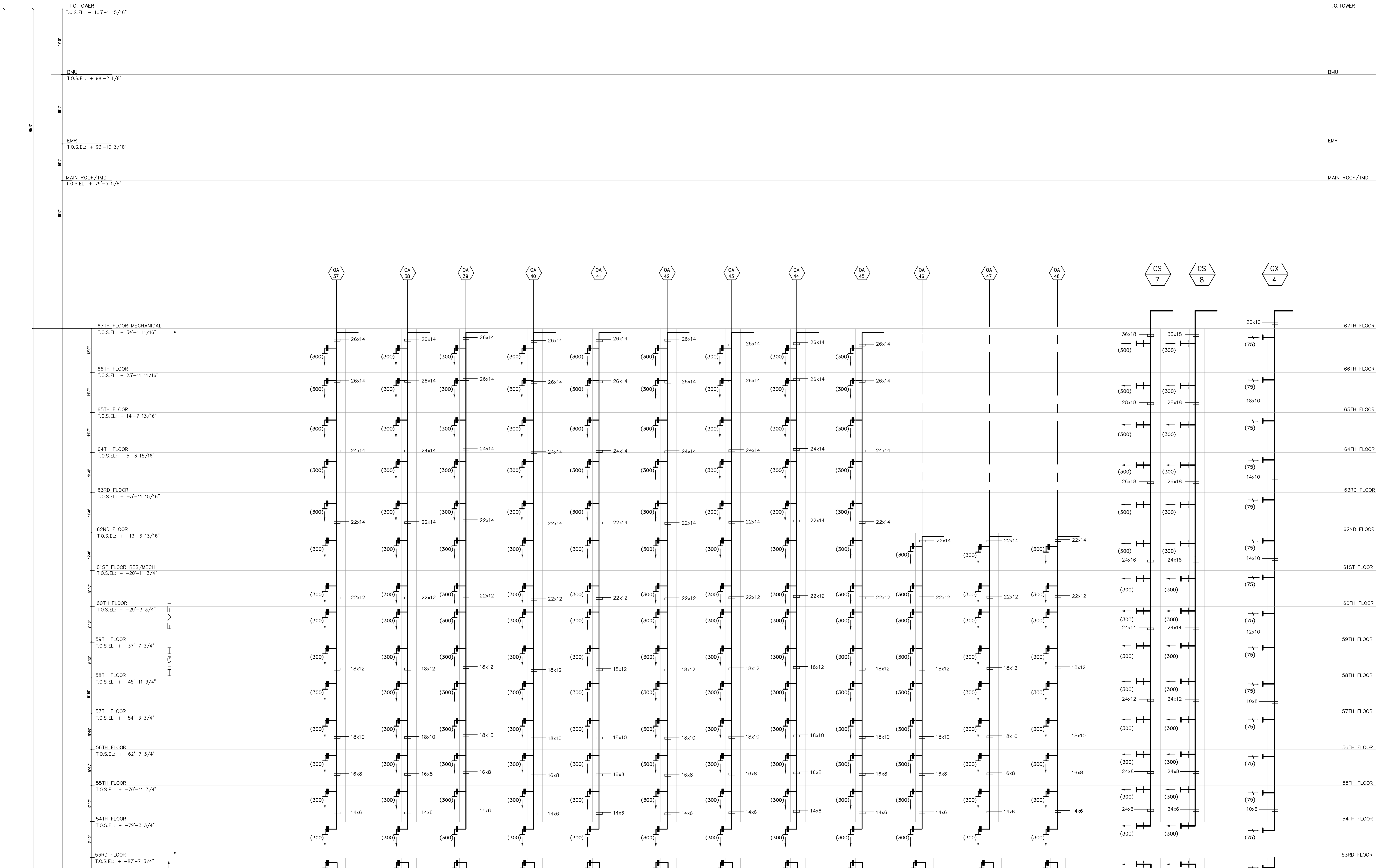
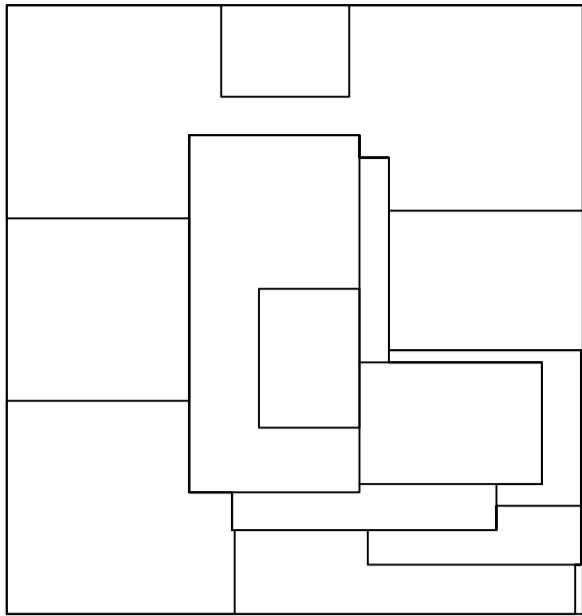
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02/05/2016 DOB FILING SET

Number Date Revision  
UNITED CONSTRUCTION & DEVELOPMENT GROUP CROP  
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TEL: (718) 321.8662

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QUEENS, NEW YORK 11101

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DOB SCAN

DOB STAMPS & SIGNATURES

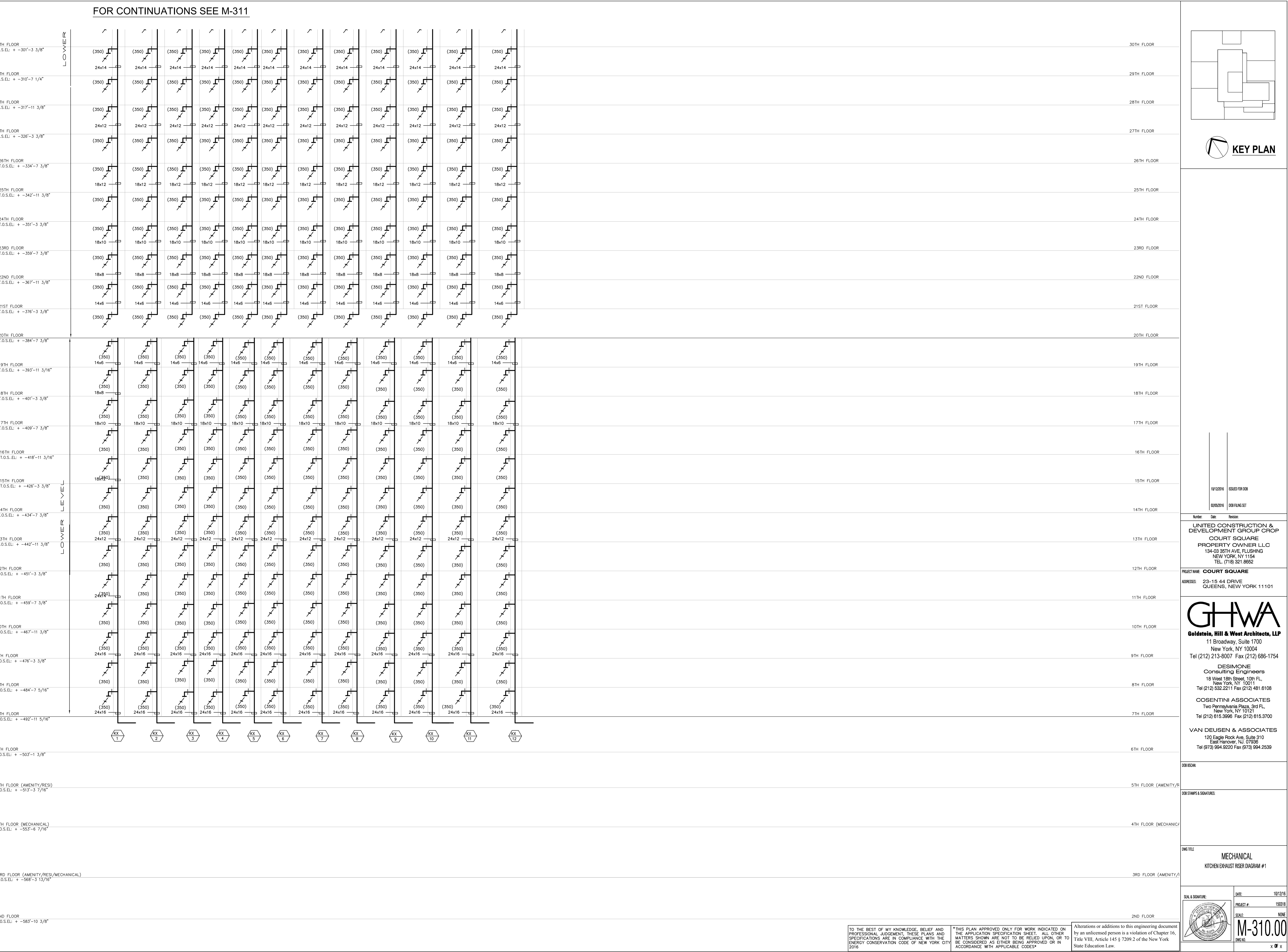
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MECHANICAL  
AIR RISER DIAGRAM #3

SEAL & SIGNATURE: DATE: 10/12/16  
PROJECT #: 150316  
SCALE: NONE  
M-309.00  
DWG NO. x OF x

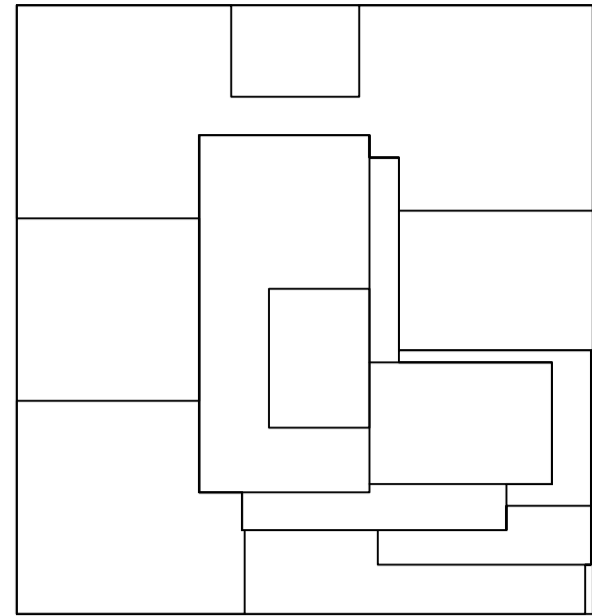
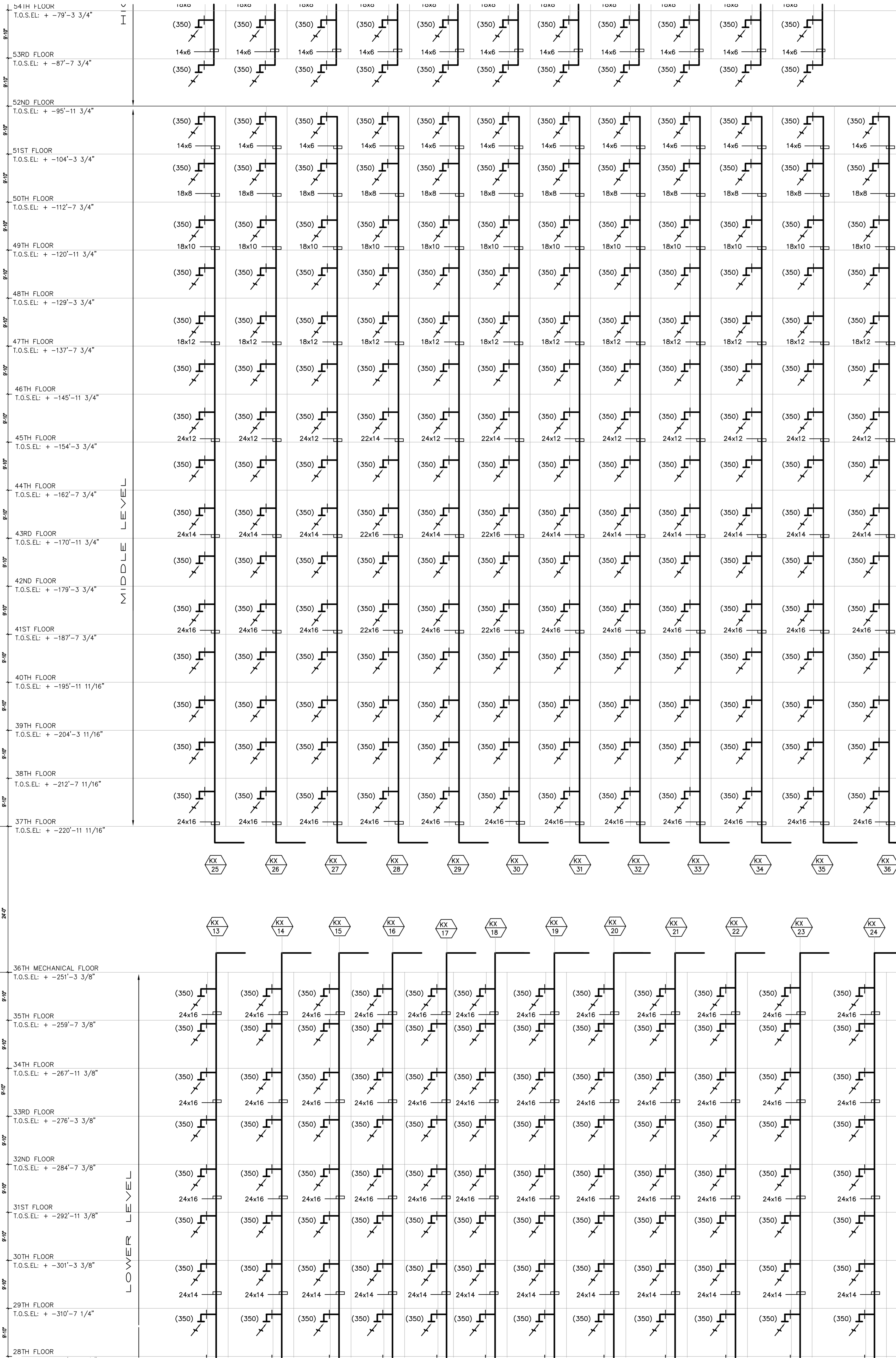
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE ENERGY CONSERVATION CODE OF NEW YORK CITY 2016

\*THIS PLAN APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES\*

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FOR CONTINUATIONS SEE M-312



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DOB SCAN

DOB STAMPS & SIGNATURES

OWN TITLE  
MECHANICAL  
KITCHEN EXHAUST RISER DIAGRAM #2

SCALE & SIGNATURE  
DATE: 10/12/16  
PROJECT #: 150316  
SCALE: NONE  
M-311.00  
OWN NO. x OF x

FOR CONTINUATIONS SEE M-310

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HEAT RECOVER UNIT (ERV WHEEL) SCHEDULE																																								AS STD			
UNIT NO.	AREA SERVED	LOCATION	TYPE	EVAPORATOR FAN				EXHAUST CFM	COMPRESSOR			COOLING COIL CAPACITY				CONDENSER WATER				HEATING COIL CAPACITY				TOTAL POWER INPUT (MCA)	Volts/Ph/Hz	SUMMER WHEEL		WINTER WHEEL		MODEL NO.	MANUFACTURE	EER	REMARKS										
				AIR QTY (CFM)	TOTAL O.A. CFM	EXT SP IN. WG	RPM		FAN QTY	FAN HP	QTY	MCA	MCOP	TOTAL MBH	SENS MBH	EAT DB °F	EAT WB °F	LAT DB °F	LAT WB °F	EWT	LWT	GPM	WPD			TOTAL MBH	EAT DB °F	EAT WB °F	LWT DB °F					LWT WB °F	PD	EAT DB °F	RAT DB °F	EAT WB °F	RAT DB °F				
AC-0A-4-1	APARTMENT O.A. (3rd FL. - 17th FL.)	4th FL MER	VERTICAL	11,200	11,200	2	1725	4	7.5	10,000	4	200	250	649	462	85	69	55	85	97	150	23	1001	10	75	180	160	100	10	200	460/360	95/87	75/63	10	72	VZW050G3DTAA-C-X	UNITED COOL AIR	13.5					
AC-0A-4-2	APARTMENT O.A. (3rd FL. - 17th FL.)	4th FL MER	VERTICAL	11,200	11,200	2	1725	4	7.5	10,000	4	200	250	649	462	85	69	55	85	97	150	23	1001	10	75	180	160	100	10	200	460/360	95/87	75/63	10	72	VZW050G3DTAA-C-X	UNITED COOL AIR	13.5					
AC-0A-4-3	APARTMENT O.A. (3rd FL. - 17th FL.)	4th FL MER	VERTICAL	14,000	14,000	2	1725	4	7.5	8,000	4	180	225	474	370	81	68	55	85	97	120	23	800.8	10	75	180	160	80	10	180	460/360	95/87	75/63	10	72	VZW040G3DTAA-C-X	UNITED COOL AIR	13.5					
AC-0A-4-4	APARTMENT O.A. (3rd FL. - 17th FL.)	4th FL MER	VERTICAL	14,000	14,000	2	1725	4	7.5	8,000	4	180	225	474	370	81	68	55	85	97	120	23	800.8	10	75	180	160	80	10	180	460/360	95/87	75/63	10	72	VZW040G3DTAA-C-X	UNITED COOL AIR	13.5					
AC-0A-36-1	APARTMENT O.A. (18nd FL. - 35th FL.)	36th FL MER	VERTICAL																																								
AC-0A-36-2	APARTMENT O.A. (18nd FL. - 35th FL.)	36th FL MER	VERTICAL																																								
AC-0A-36-3	APARTMENT O.A. (37th FL. - 52nd FL.)	36th FL MER	VERTICAL																																								
AC-0A-36-4	APARTMENT O.A. (37th FL. - 52nd FL.)	36th FL MER	VERTICAL																																								
AC-0A-76-1	APARTMENT O.A. (53rd FL. - 66th FL.)	67th FL MER	VERTICAL																																								
AC-0A-76-2	APARTMENT O.A. (53rd FL. - 66th FL.)	67th FL MER	VERTICAL																																								
NOTES: 1. PROVIDE R-410A GREEN REFRIGERANT FOR ALL UNITS. 2. 100% OUTSIDE AIR UNIT 3. COATED COIL 4. MODULATING HOT GAS REHEAT. 5. FREEZE BLOCK HOT WATER COIL INCLUDING EXPANSION RELIEF HEADERS EQUIPPED WITH PRESSURE AND TEMPERATURE SENSING VALVES TO PREVENT FREEZE DAMAGE TO THE UNITS AND INSTALL IN FIELD. 6. EXTRA SILENT SOUND PACKAGE 7. STAINLESS STEEL DRAIN PAN 9. HOT GAS BYPASS.																																											

VERTICAL HEAT PUMP UNIT SCHEDULE																	"ENVIROTEC" AS STD. (ISLANDAIRE AND HTS APPROVED EQUAL)											
UNIT TYPE	TOTAL COOLING (MBH)	SENSIBLE COOLING (MBH)	CONDENSER WATER				AIR TEMP(°F)		FAN DATA		TOTAL HEAT REJECTION (MBH)	HEATING MODE			COMPRESSOR				MIN. CIRCUIT AMP.	MAX FUSE/HACR	VOLTS/PH/HZ	MODEL NO.	DIMENSIONS	EER	REMARKS			
			EWT	LWT (°F)	GPM	WPD (°F)	ENT.	LVG.	CFM	ESP		EWT (°F)	LWT (°F)	HTG (MBH)	QUANTITY	TYPE	RLA	FLA										
A	8.2	6.3	87	101	1.6	7	80	61.7	320	0.05	11.6	70	60	17.6	1	ROTARY	4.7	5.4	6	15	208/1/60	XXX	17"(W)x17"(D)x88"(H)	13				
B	11.1	8.4	87	101	1.8	7	80	64.6	390	0.05	11.9	70	60	24.7	1	ROTARY	5.6	6.6	7	15	208/1/60	XXX	20"(W)x20"(D)x88"(H)	13				
C	13.7	11.2	87	101	2	7	80	62.3	570	0.05	19	70	60	28.8	1	ROTARY	6.6	7.6	9	15	208/1/60	XXX	20"(W)x20"(D)x88"(H)	13.2				
D	17.1	13.4	87	101	2.4	7	80	62.3	655	0.05	23	70	60	28.8	1	ROTARY	6.6	7.6	12	15	208/1/60	XXX	20"(W)x20"(D)x88"(H)	13.2				
<b>NOTES:</b> 1. CAPACITIES INDICATED ARE NOMINAL. ALL UNITS TO BE PROVIDED WITH: THERMOSTAT, DISCONNECT SWITCH, EXTENDED RANGE VALVE FOR LOW WATER TEMP OPERATION, AND BE PROVIDED WITH EXTRA QUIET SOUND PACKAGE. UNIT TO BE PROVIDED WITH AUTOMATIC CONTROL/BALANCING VALVE TO CLOSE WATER WHEN UNIT IS OFF. 2. ALL UNITS AND COMPONENTS TO BE DESIGNED FOR MINIMUM OF 250 PSI FROM 1ST FLOOR TO 30TH FLOOR AND 200 PSI FROM 31ST FLOOR TO 49TH FLOOR. 3. UNITS SERVING MULTIPLE ROOMS TO BE PROVIDED WITH INTERNAL ACOUSTIC LINED 2" THICK BAFFLE TO BALANCE AIR TO DIFFERENT ROOMS.																												

HORIZONTAL HEAT PUMP UNIT SCHEDULE																														"FLORIDA" AS STD.			
UNIT TYPE	SERVICE	LOCATION	TONNAGE	TOTAL COOLING (MBH)	SENSIBLE COOLING (MBH)	CONDENSER WATER				AIR TEMP (°F)		MED.SP. FAN DATA		OAI CFM	TOTAL HEAT REJECTION (MBH)	HEATING MODE			COMPRESSOR				MIN. CIRCUIT AMP.	MAX FUSE/HACR	FLA	VOLTS/PH/HZ		HP	MODEL NO.	EER	CONFIGURATION	REMARKS	
						EWT	LWT (°F)	GPM	WPD (°F)	ENT.	LVG.	CFM	ESP			EWT (°F)	LWT (°F)	HTG (MBH)	QUANTITY	TYPE	RLA	LRA											
HP-C-1	LAUNDRY ROOM	CELLAR	3	38.6	29.1	85	95	9	11.9	82	55	1,200	.5	200	46.3	70	60	44.3	1	SCROLL	7.8	4.1	13.9	20	11.90	460/3/80	.5	LVO 36		HORIZONTAL			
HP-C-2	ELECTRICAL ROOM	CELLAR	5	63.1	46.1	85	95	15	10.6	80	55	2,000	.5	0	76.8	70	60	73.7	1	SCROLL	15.6	7.6	27.1	40	23.20	460/3/80	1	LVO 60		HORIZONTAL			
HP-C-3	SUPER'S WORKSHOP	CELLAR	5	63.1	46.1	85	95	15	10.6	82	55	2,000	.5	400	76.8	70	60	73.7	1	SCROLL	15.6	7.6	27.1	40	23.20	460/3/80	1	LVO 60		HORIZONTAL			
HP-C-4	SUPER'S OFFICE	CELLAR	3	38.6	29.1	85	95	9	11.9	82	55	1,200	.5	200	46.3	70	60	44.3	1	SCROLL	7.8	4.1	13.9	20	11.90	460/3/80	.5	LVO 36		HORIZONTAL			
HP-C-5	STAFF ROOM	CELLAR	3	38.6	29.1	85	95	9	11.9	82	55	1,200	.5	200	46.3	70	60	44.3	1	SCROLL	7.8	4.1	13.9	20	11.90	460/3/80	.5	LVO 36		HORIZONTAL			
HP-C-6	BUILDING STORAGE	CELLAR	3	38.6	29.1	85	95	9	11.9	80	55	1,200	.5	0	46.3	70	60	44.3	1	SCROLL	7.8	4.1	13.9	20	11.90	460/3/80	.5	LVO 06		HORIZONTAL			
HP-C-7	BUILDING STORAGE	CELLAR	3	38.6	29.1	85	95	9	11.9	80	55	1,200	.5	0	46.3	70	60	44.3	1	SCROLL	7.8	4.1	13.9	20	11.90	460/3/80	.5	LVO 06		HORIZONTAL			
HP-C-8	TRASH STORAGE	CELLAR	3	38.6	29.1	85	95	9	11.9	80	55	1,200	.5	0	46.3	70	60	44.3	1	SCROLL	7.8	4.1	13.9	20	11.90	460/3/80	.5	LVO 06		HORIZONTAL			
HP-C-9	COMPACTOR ROOM	CELLAR	3	38.6	29.1	85	95	9	11.9	80	55	1,200	.5	0	46.3	70	60	44.3	1	SCROLL	7.8	4.1	13.9	20	11.90	460/3/80	.5	LVO 06		HORIZONTAL			
HP-C-10	TELECOM ROOM	CELLAR	5	63.1	46.1	85	95	15	10.6	80	55	2,000	.5	0	76.8	70	60	73.7	1	SCROLL	15.6	7.6	27.1	40	23.20	460/3/80	1	LVO 60		HORIZONTAL			
HP-C-11	BUILDING STORAGE	CELLAR	2	23.8	17.4	85	95	5	9.2	80	55	800	.5	0	46.3	70	60	28.0	1	SCROLL	2.9	2.6	6.2	15	8.7	460/3/80	.5	LVO 24		HORIZONTAL			
HP-C-12	TENANT STORAGE	CELLAR	10	123.2	95.47	85	95	24	10	80	55	3800	1.0	0	156.05	70	60	148.58	2	SCROLL	9.7	3.2	EA	26.4	35	20.3	460/3/80	(2) 3	LVO 24		HORIZONTAL		
HP-C-13	RESIDENTIAL BICYCLE STORAGE	CELLAR	5	63.1	46.1	85	95	15	10.6	80	55	2,000	.5	0	76.8	70	60	73.7	1	SCROLL	15.6	7.6	27.1	40	23.20	460/3/80	1	LVO 60		HORIZONTAL			
HP-C-14	BUILDING STORAGE	CELLAR	5	63.1	46.1	85	95	15	10.6	80	55	2,000	.5	200	76.8	70	60	73.7	1	SCROLL	15.6	7.6	27.1	40	23.20	460/3/80	1	LVO 60		HORIZONTAL			
HP-C-15	CAR ELEV MER	CELLAR	5	63.1	46.1	85	96.4	2.5	5.7	80	57.5	360	.5	100	14.1	70	60	13.9	1	SCROLL	4.6	27.9	27.1	40	23.20	460/3/80	1	LVO 60		HORIZONTAL			
HP-1-1	PARKING ATTENDANT	1st FLOOR	1	11.4	8.8	85	95	15	10.6	80	55	2,000	.5	0	76.8	70	60	73.7	1	SCROLL	15.6	7.6	27.1	40	23.20	120/1/60	1	LVO12		HORIZONTAL			
HP--1	LOBBY	3rd FLOOR	30	295.53	229.57	85	95	75	19.1	84.5	55	8,000	1.0	3,000	374.97	70	60	406.98	2	SCROLL	20.7	125	55.6	70	8.7	460/3/80	3	EC300		VERTICAL			
HP-3-2	1st FLOOR	3rd FLOOR	10	123.21	95.27	85	95	32	16.8	83.7	55	3,000	1.0	1,000	156.05	70	60	151.74	2	SCROLL	9.7	70	55.6	70	4.5	460/3/80	2	EC120		VERTICAL			
HP-3-3	YOGA ROOM	3rd FLOOR	4	48.7	35.8	85	95	12	2.7	81.55	55	1,200	1.0	250	60.4	70	60	60.3	1	SCROLL	5.4	44	12.3	15	5.5	460/3/80	2	LVO48		HORIZONTAL			
HP-3-5	GYM	3rd FLOOR	30	295.53	229.57	85	95	75	19.1	84.5	55	8,000	1.0	3,000	374.97	70	60	406.98	2	SCROLL	20.7	125	55.6	70	8.7	460/3/80	3	EC300		VERTICAL			
HP-3-6	3rd Floor	3rd FLOOR	10	123.21	95.27	85	95	32	16.8	83.7	55	3,000	1.0	1,000	156.05	70	60	151.74	2	SCROLL	9.7	70	55.6	70	4.5	460/3/80	2	EC120		VERTICAL			
HP-3-7	MAIL ROOM	3rd FLOOR	10	123.21	95.27	85	95	32	16.8	83.7	55	3,000	1.0	1,000	156.05	70	60	151.74	2	SCROLL	9.7	70	55.6	70	4.5	460/3/80	2	EC120		VERTICAL			
HP-3-8	LEASING OFFICE	3rd FLOOR	4	48.7	35.8	85	95	12	2.7	81.4	55	1,500	1.0	300	60.4	70	60	60.3	1	SCROLL	5.4	44	12.3	15	5.5	460/3/80	2	LVO48		HORIZONTAL			
HP-3-9	LIBRARY	3rd FLOOR	4	48.7	35.8	85	95	12	2.7	81.55	55	1,500	1.0	300	60.4	70	60	60.3	1	SCROLL	5.4	44	12.3	15	5.5	460/3/80	2	LVO48		HORIZONTAL			
NOTES:																																	
1. CAPACITIES INDICATED ARE NOMINAL. ALL UNITS TO BE PROVIDED WITH THERMOSTAT DISCONNECT SWITCH, EXTENDED RANGE VALVE FOR LOW WATER TEMPERATURE OPERATION, AND BE PROVIDED WITH EXTRA QUIET SOUND PACKAGE. UNIT TO BE PROVIDED WITH AUTOMATIC CONTROL/BALANCING VALVE TO CLOSE WATER WHEN UNIT IS OFF.																																	
2. ALL UNITS AND COMPONENTS TO BE DESIGNED FOR MINIMUM OF 300 PSI FROM 1ST FLOOR TO 30TH FLOOR AND 200 PSI FROM 31ST FLOOR TO 49TH FLOOR.																																	
3. UNITS SERVING MULTIPLE ROOMS TO BE PROVIDED WITH INTERNAL ACOUSTIC UNED 2" THICK BAFFLE TO BALANCE AIR TO DIFFERENT ROOMS.																																	

SPLIT AIR CONDITIONING UNIT SCHEDULE (AIR COOLED)																							"FUJITSU" AS STANDARD		
SPACE MOUNTED DX FAN COIL UNIT (INDOOR UNITS)																									
MARK	SERVICE	MODEL NUMBER	LOCATION	CONFIGURATION	NOM. TONS	TOTAL CLG. MBH	SENSIBLE CLG. MBH	HTG. MBH	RETURN AIR				DIMENSIONS HxWxD (IN.)	WEIGHT (LBS)	MIN CFM	MAX CFM	MIN O.A. CFM	FAN OUTPUT W	HP	ELECT. DATA VOLT/PH/HZ	FLA	MCA	FILTERS	SEER	NOTES
									SUMMER DB °F RH %		WINTER DB °F RH %														
HP-R-1 & 2	ROOF ELEVATOR MER	ARUH6SLAV	PASSENGER MER ROOM	CEILING HUNG	8.0	96.0	--	108.0	80.0	51.0	75.0	30.0	22x63x38	230	2800	2100	0	838	1/3	208/1/60	--	9.4	STD. THROWAWAY	14.0	
OUTDOOR CONDENSING UNIT																									
MARK	MODEL NUMBER	LOCATION	SERVICE	AMBIENT TEMP. (F)	REFRIG.	EER	COOLING DATA		HEATING DATA		ELECT. DATA VOLT/PH/HZ	COMPRESSOR RLA/LRA	FAN OUTPUT (KW)	FAN MOTOR (FLA)	MCA MOCP	FAN CFM	DIMENSIONS HxWxD (IN.)	WEIGHT LB	REFRIGERANT PIPING		NOTES				
							NOMINAL MBH	ELECTRICAL INPUT KW AMPS	NOMINAL MBH	ELECTRICAL INPUT KW AMPS									LIQUID	HOT GAS					
CJ-R-2	AQUA192TLBWG	MAIN ROOF	HP-R-2 & 3	95	R410A	11.60	192	15.78	--	216	14.79	--	208/1/60	-- / --	--	--	82	(2)6333	67x96x31	1,300	AS PER MANUFACTURE				
NOTES: 1. ALL AC UNITS SHALL BE SUPPORTED FROM STRUCTURE ABOVE WITH VIBRATION ISOLATORS. 2. ALL AC UNITS SHALL BE PROVIDED WITH AIR FILTER. 3. UNITS SHALL BE PROVIDED WITH CONDENSATE PUMP AND WATER TIGHT DRIP PAN WITH WATER LEAK DETECTORS 4. AC-1-2 AC UNIT SHALL BE COOLING UNIT ONLY. 5. PROVIDE BC CONTROLLER COORDINATE WITH MANUFACTURER SIZE AND CLEARANCE FOR THE CONTROLLER. 6. ALL AC UNITS SHALL BE PROVIDED WITH CRANKCASE HEATER AND DISCONNECT. 7. ALL OUTDOOR CONDENSING UNIT SHALL BE PROVIDED WITH ROOF CURBS. 8. FAN MOTOR IS LESS THAN 5 HP.																									

100% OA UNITS - HW COIL FREEZE PROTECTION CENTRIFUGAL PUMP SCHEDULE																		(BELL & GOSSETT AS STANDARD)			
PUMP NO.	QUANTITY	SERVICE	LOCATION	TYPE	GPM	TOTAL DYNAM. HEAD FEET	MIN. DESIGN WORKING PRESS. P.S.I.G.	MODEL NO.	FRAME SIZE	IMP. DIAM. IN.	MIN. N.P.S.H. FEET	EFFICIENCY	MOTOR				VIBR. ISOL. SPEC. TYPE	MIN. STATIC OUTF. INCHES	OPERATING WEIGHT (LBS.)	VFC	REMARKS
													BHP	HP	RPM	V/PH/Hz					
FPP-C-1	1	OAU-C-1 HW COILS	CELLAR MER	INLINE	--	28	175	1 1/2 X 1 1/2 X 6 1/4	--	5.75	4	53%	0.60	0.8	1,750	208/1/60	SPEC	2"	25	NO	
FPP-C-2	1	OAU-C-2HW COILS	CELLAR MER	INLINE	--	28	175	1 1/2 X 1 1/2 X 6 1/4	--	5.75	4	53%	0.60	0.8	1,750	208/1/60	SPEC	2"	25	NO	
FPP-C-3	1	OAU-C-3 HW COILS	CELLAR MER	INLINE	--	28	175	1 1/2 X 1 1/2 X 6 1/4	--	5.75	4	53%	0.60	0.8	1,750	208/1/60	SPEC	2"	25	NO	
FPP-C-4	1	AC-C-1 HW COILS	CELLAR MER	INLINE	--	28	175	1 1/2 X 1 1/2 X 6 1/4	--	5.75	4	53%	0.60	0.8	1,750	208/1/60	SPEC	2"	25	NO	
FPP-2	1	HW COILS	MERS	INLINE	--	28	175	2 X2 6 1/4	--	6.22	4.3	65%	1.1	1.5	1750	208/1/60	SPEC	2	35	NO	

FINNED-TUBE RADIATION SCHEDULE										AS STANDARD									
SYMBOL	LOCATION	SERVICE	BTUH/LF	E.W.T. (°F)	L.W.T. (°F)	ELEMENT					PIPE		ENCLOSURE					REMARKS	
						LENGTH	SIZE	PER FT.	MAT.	ROWS	SIZE	MAT.	HGT.	DEPTH	TYPE	COLOR	MODEL NO		
	1ST FLOOR	SEE DWG	1000	180	160	SEE DWG	4 1/2"x4 1/2"	40	AL	1	1"	COPPER	12"	8"	GALV. STEEL	BY ARCHITECT	PIBGS	PROVIDE BUILT IN THERMOSTAT	
	TYP. FLOOR	SEE DWG	1000	180	160	SEE DWG	4 1/2"x4 1/2"	40	AL	1	1"	COPPER	12"	8"	GALV. STEEL	BY ARCHITECT	PIBGS	PROVIDE BUILT IN THERMOSTAT	

EXPANSION TANK SCHEDULE										AS STD.									
UNIT NO.	SERVICE	LOCATION	LENGTH/ HEIGHT (IN)	DIAM. (IN)	ACCEPT. CAPAC. (GAL)	WORK. PRESS. (PSIG)	OPERATING WEIGHT (LBS)	MANUFACTURER & MODEL NO.		REMARKS									
ET-1	SECONDARY WATER SYSTEM	ROOF MER	98	36	370	125	3958	B-1400		CHARGE PRESS -15 PSIG									

ELECTRICAL BASEBOARD SCHEDULE																			
UNIT NO.	AREA SERVED	LOCATION	TYPE	E.A.T. (F)	L.A.T. (F)	KW	LENGTH FT	NO. OF STAGES	V/Ph/Hz	MFR. & MODEL NO.	REMARKS								
EBB-1	SEE PLANS	SEE PLANS	CABINET HEATER TYPE E	45	82	2.0	8.0	1	208/3/60	BRASCH SB-8250	BUILT IN THERMOSTAT & DISCONN. SWITCH								

SAND FILTER SCHEDULE														
UNIT NO.	SERVICE	GPM	TDH	MAX. PSIG	AUTOMATIC BACKWASH DIFFERENTIAL PRESSURE	ELECTRICAL DATA			MANUFACTURER AND MODEL	DIMENSIONS L x W x H (IN.)	OPERATING WEIGHT (LBS.)	REMARKS		
						VOLTS	PH	HP						
FU-1	CONDENSER WATER	45	50	100	16	208	3	2	HPF-24-SS	63"x28"x63"	1,300			
NOTE: 1. PROVIDE 7-DAY CLOCK WITH A PUSH BUTTON OVERSIDE 2. PROVIDE M5 GRADE UNIMEDA HIGH EFFICIENCY MEDIA PACK 3. ISOLATION RAILS W/SPRING TYPE VIBRATION ISOLATORS 4. ALL SYSTEM COMPONENTS ARE PRE-PIPED, FACTORY TESTED AND SKID MOUNTED ON A 304 STAINLESS STEEL C4 CHANNEL BASE 5. START UP AND COMMISSIONING BY EQUIPMENT MANUFACTURER.														

CABINET & UNIT HEATER SCHEDULE																	
UNIT NO.	AREA SERVED	LOCATION	TYPE	AIR QTY (CFM)	AIR TEMP (°F)		TOTAL CAPACITY (MBH)	HEATING COIL			FAN MOTOR		REMARKS				
					ENT.	LVG.		HOT WATER		ELECTRIC KW	HP	Volts/Ph/Hz		MANUFACTURER & MODEL NO.			
								TEMP(°F)	GPM						WATER PIP(T)		
UH-A	SEE PLANS	SEE PLANS	HORIZONTAL UNIT HEATERS	630	60	95	24.5	180	150	2.5	0.2	--	1/15	120/1/60		HORIZONTAL UNIT HEATER	
UH-B	SEE PLANS	SEE PLANS	HORIZONTAL UNIT HEATERS	1120	60	95	46.5	180	150	4.7	0.47	--	1/10	120/1/60		HORIZONTAL UNIT HEATER	
UH-C	SEE PLANS	SEE PLANS	HORIZONTAL UNIT HEATERS	1340	60	95	61.9	180	150	6.2	0.79	--	1/10	120/1/60		HORIZONTAL UNIT HEATER	
CUH-1	SEE PLANS	SEE PLANS	VERTICAL CABINET	450	60	95	18.0	180	150	3.0	1.2	--	125W	120/1/60		VERTICAL CABINET HEATER	
CH-1-1 THRU CH-1-5	SEE PLANS	SEE PLANS	WALL RECESSED	420	30	130	45	180	150	4.0	1.4	--	1/10	115/1/60		RECESSED WALL DIM-47"W x 25"H x 9 1/2"D	
CH-1-6 AND CH-1-7	SEE PLANS	SEE PLANS	FLOOR MOUNT	230	60	95	16.2	180	150	1.5	.15	--	1/15	115/1/60		FLOOR MOUNT	
EUH-A	SEE PLANS	SEE PLANS	CEILING UNIT HEATERS	600	--	--	17.00	--	--	--	--	5	--	208/3/60	MARKEL J3475A1		
EUH-B	SEE PLANS	SEE PLANS	HORIZONTAL UNIT HEATERS	400	--	--	17.10	--	--	--	--	5	--	208/3/60	MARKEL F2FH03C03		
EUH-C	SEE PLANS	SEE PLANS	HORIZONTAL UNIT HEATERS	400	--	--	11.20	--	--	--	--	3	--	208/3/60	MARKEL F2FH03C03		
WH	SEE PLANS	SEE PLANS	WALL MOUNT	100	60	95	4.0	--	--	--	--	1.2	5.8 AFS	208/1/60	COM-PAK MAX COM1621	WITH THERMOSTAT DIM. 9"11x2"11x4"D	

NOTES

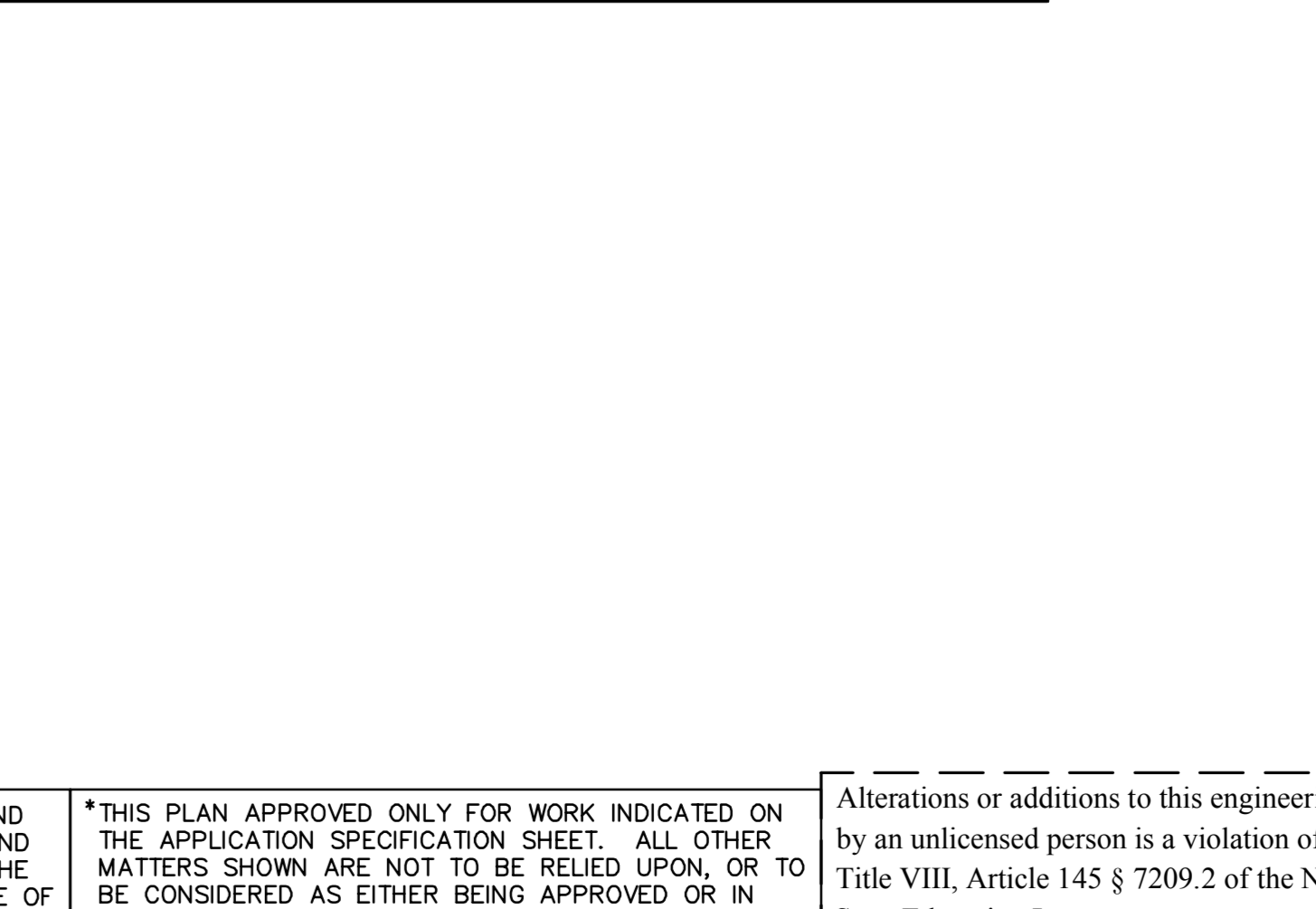
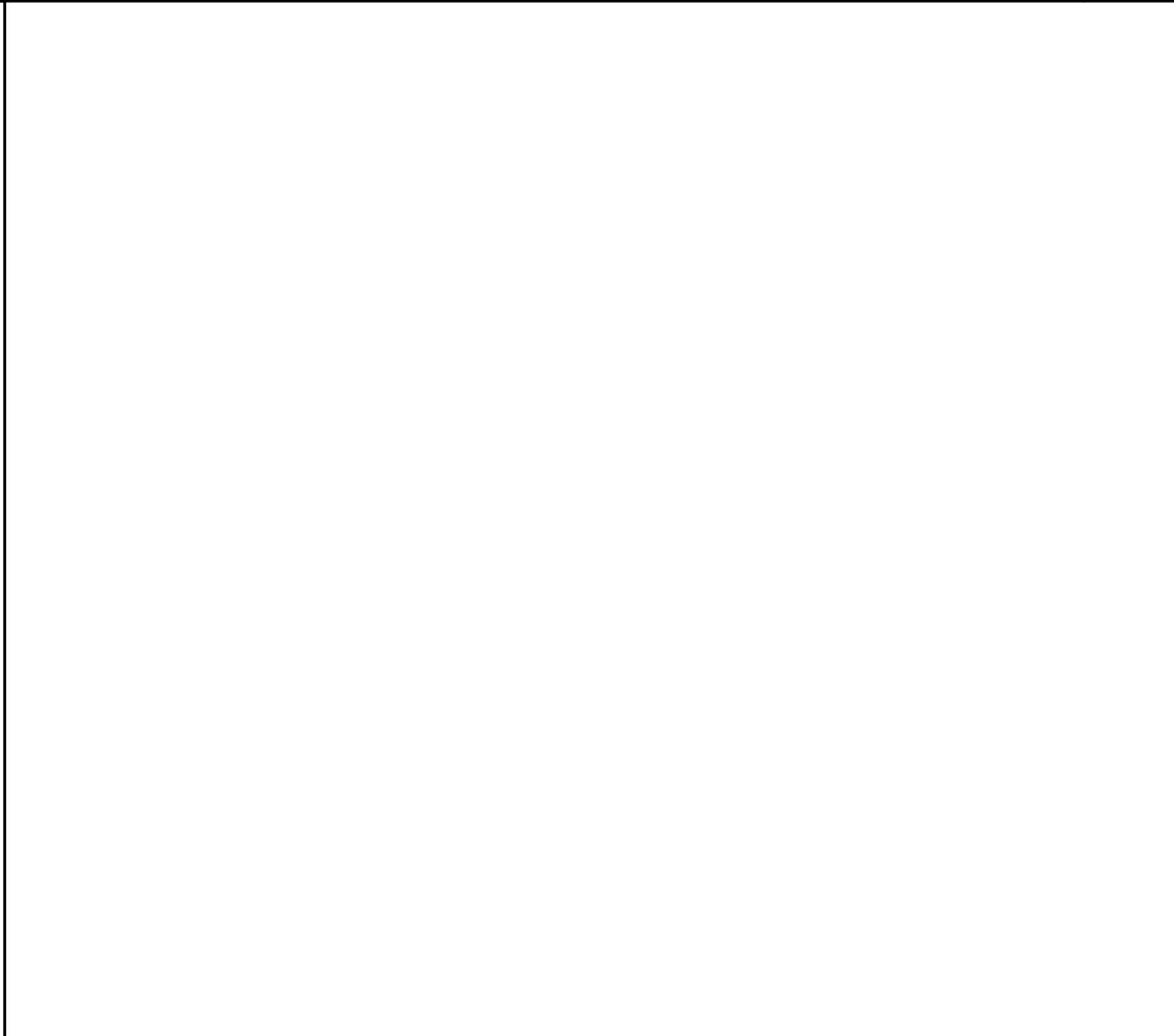
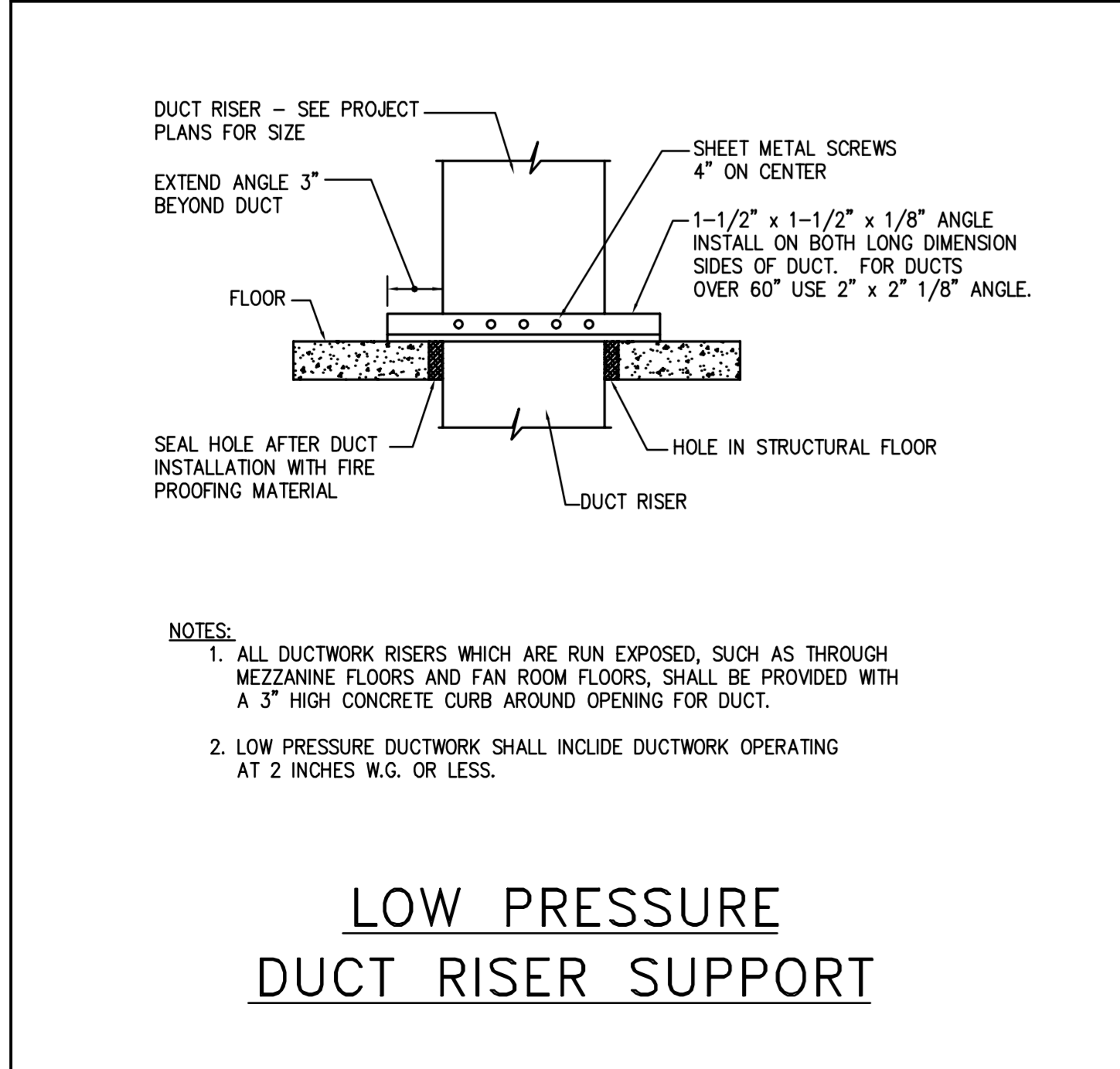
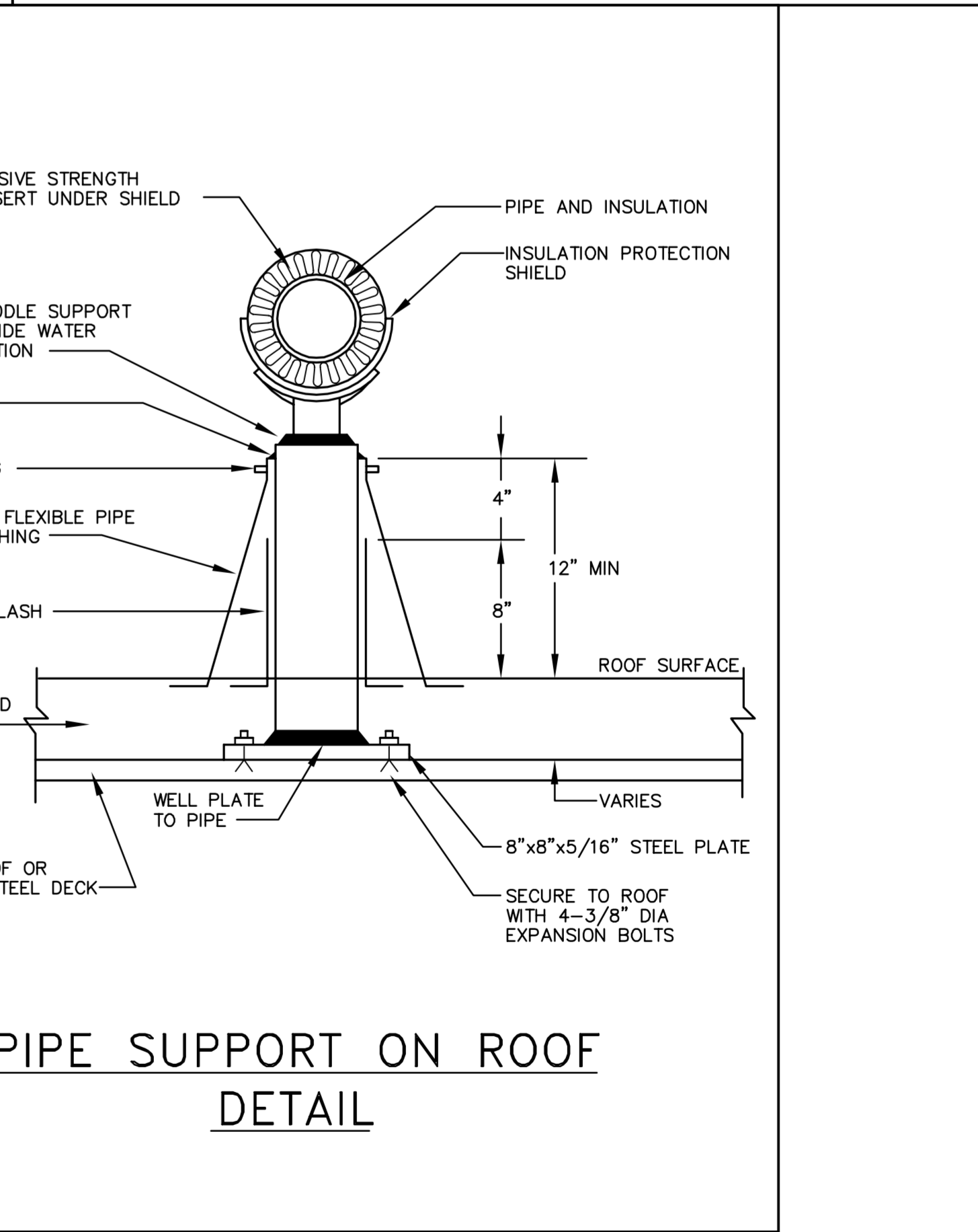
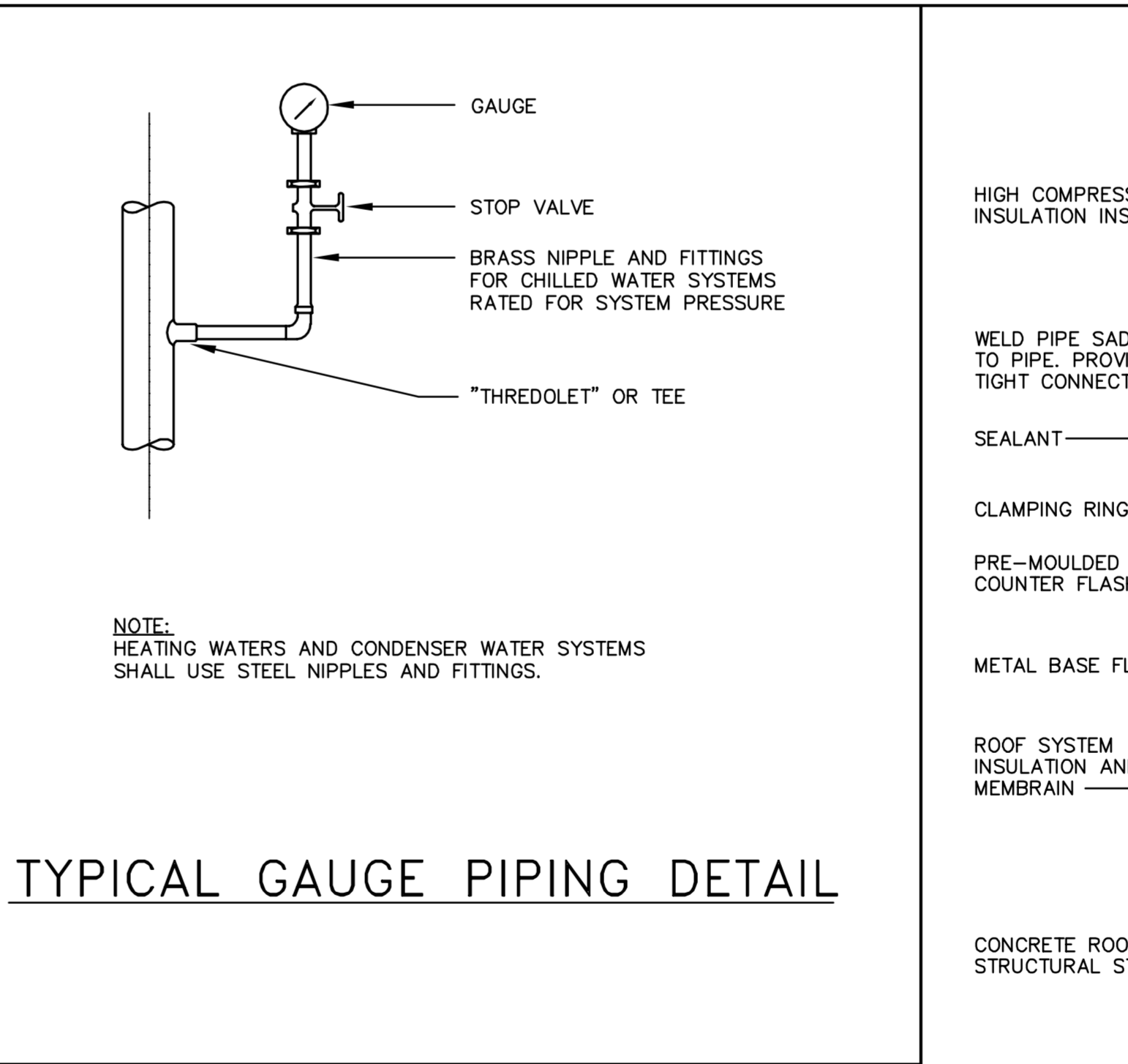
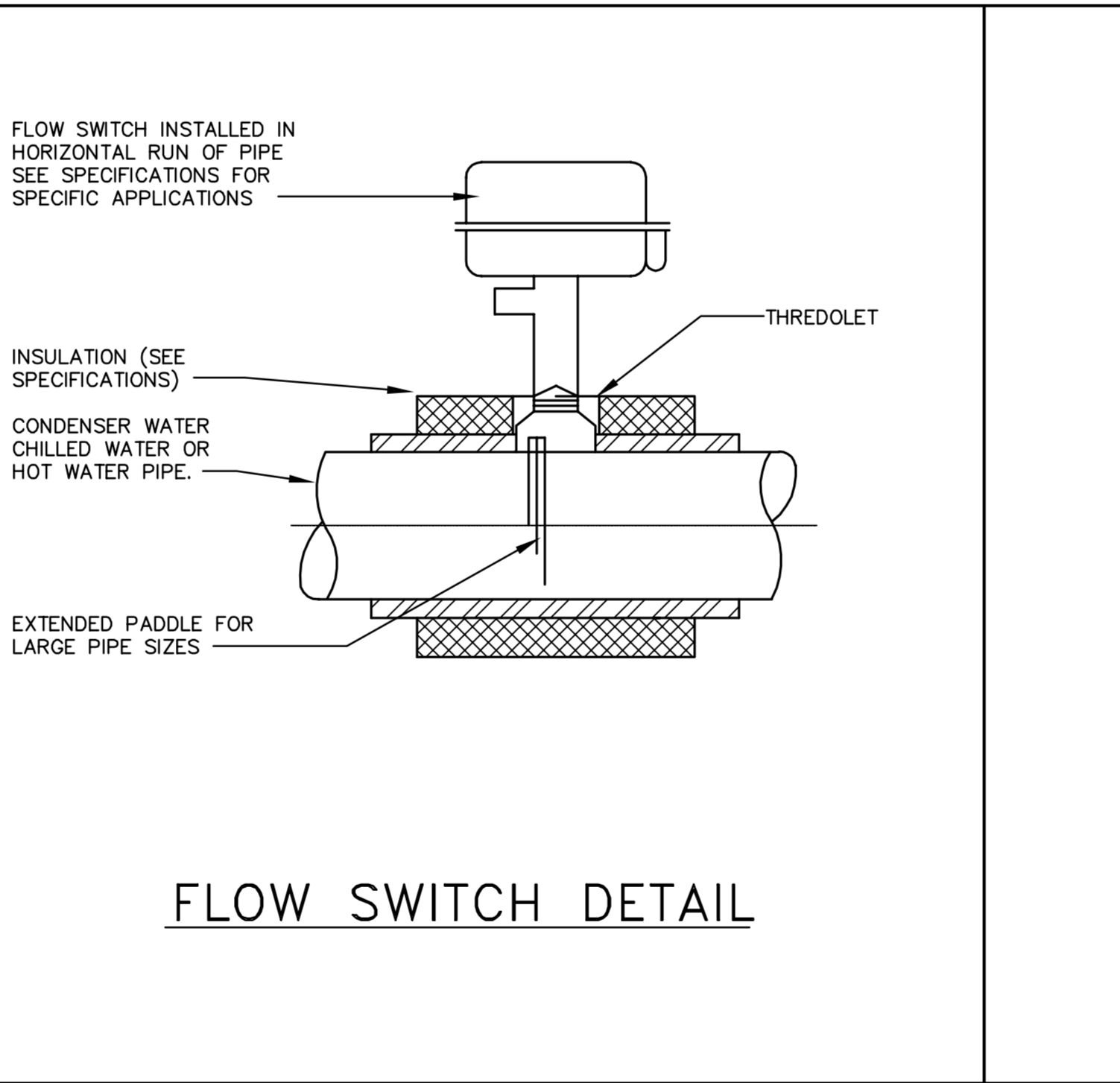
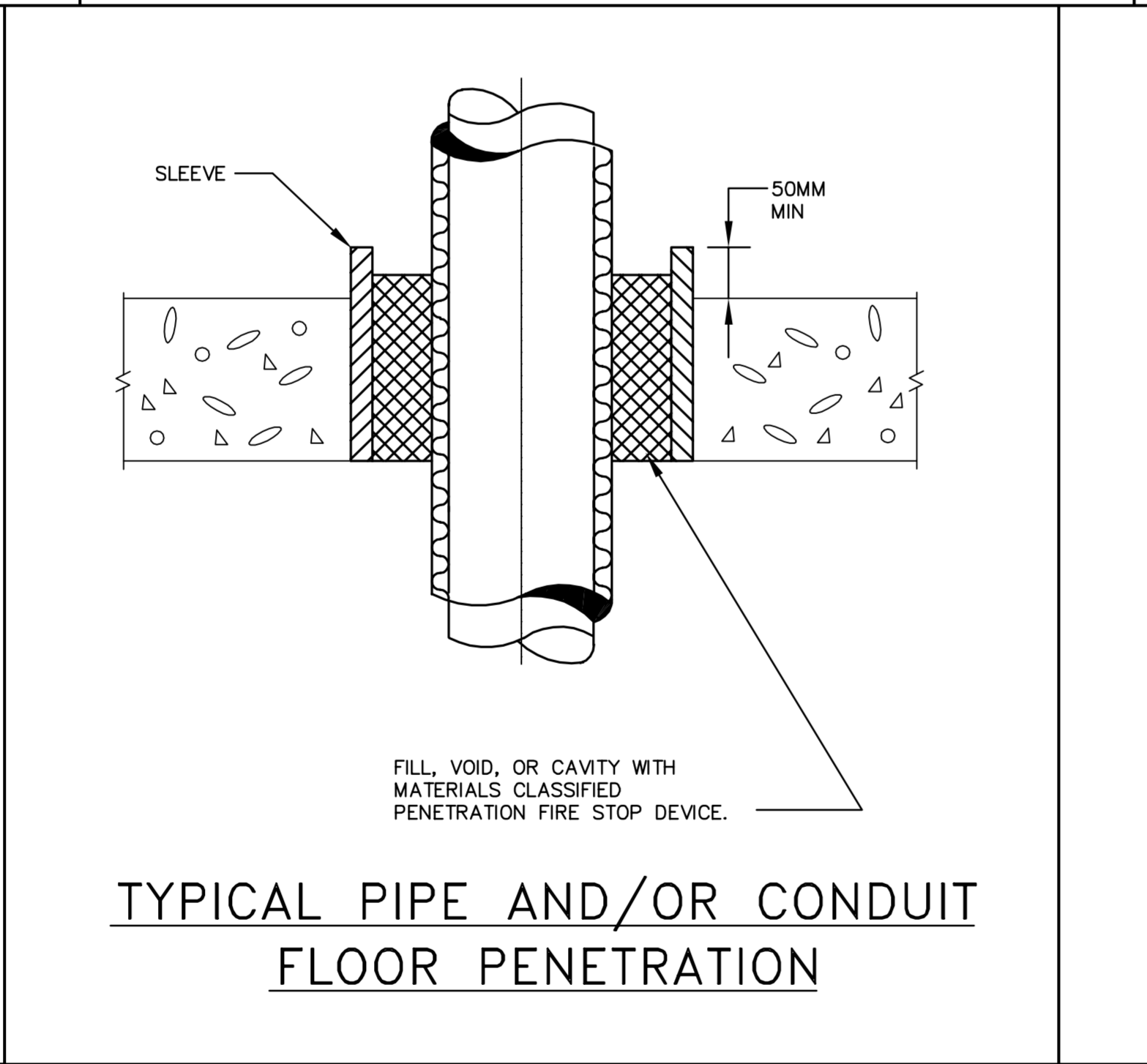
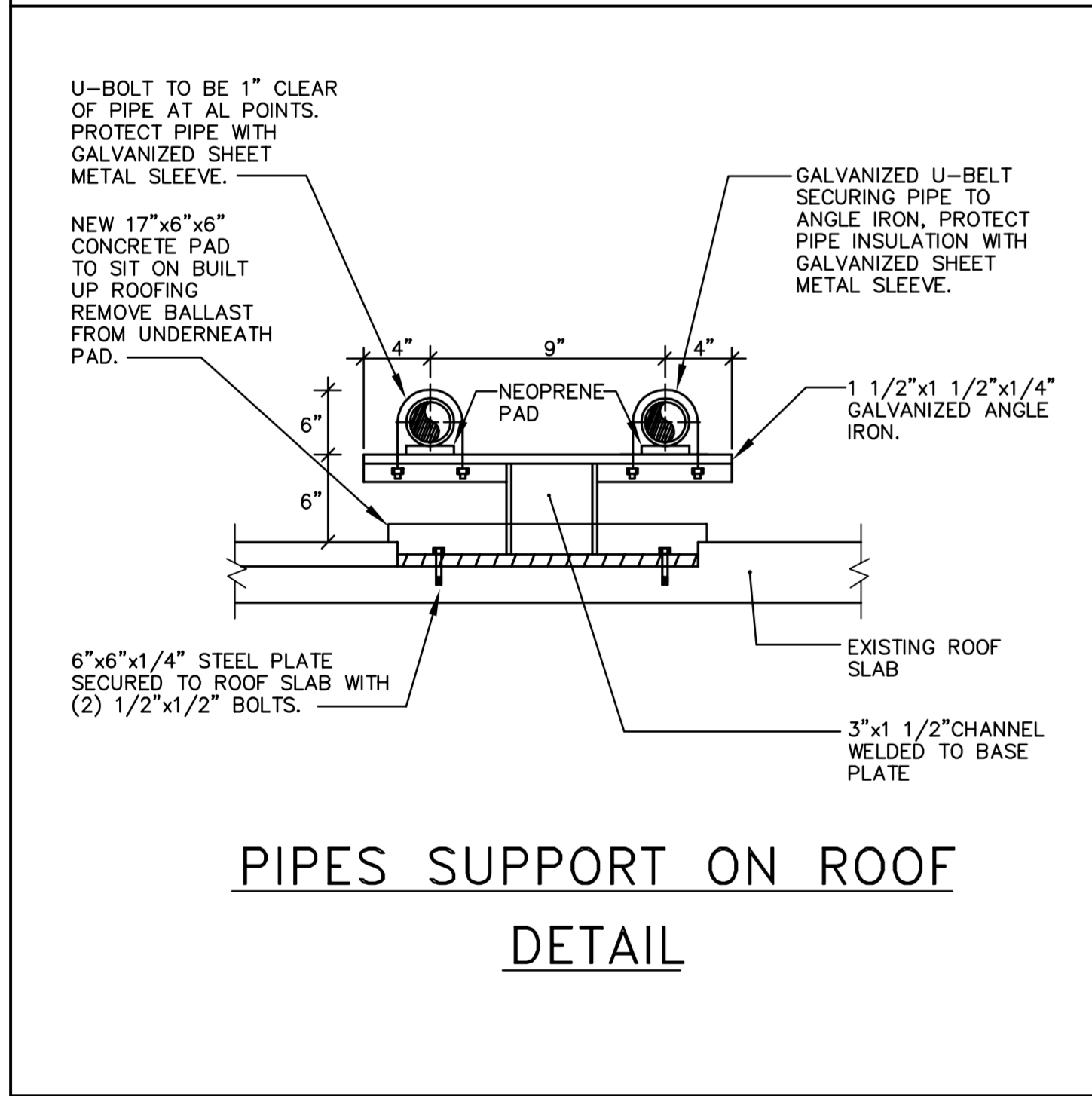
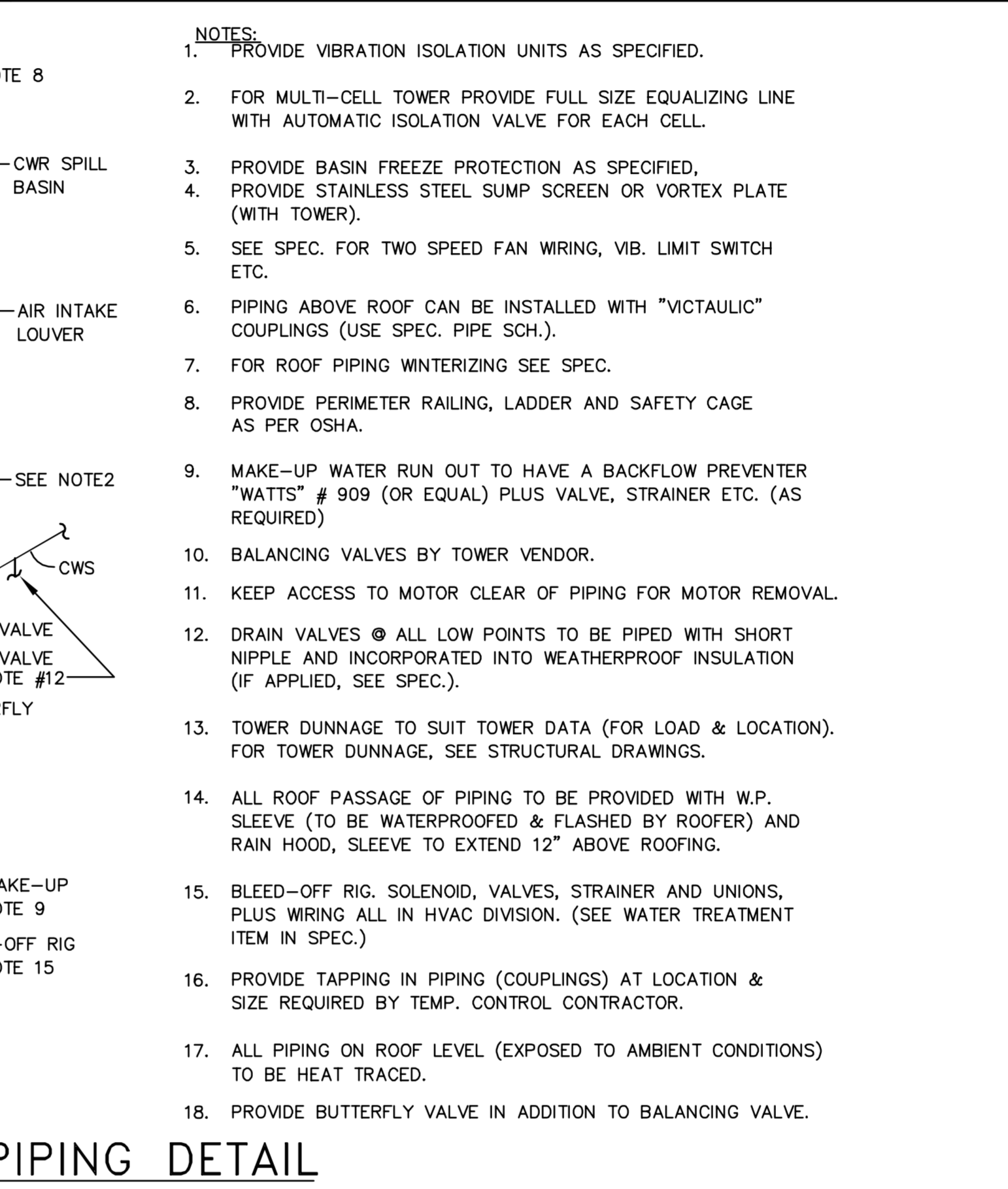
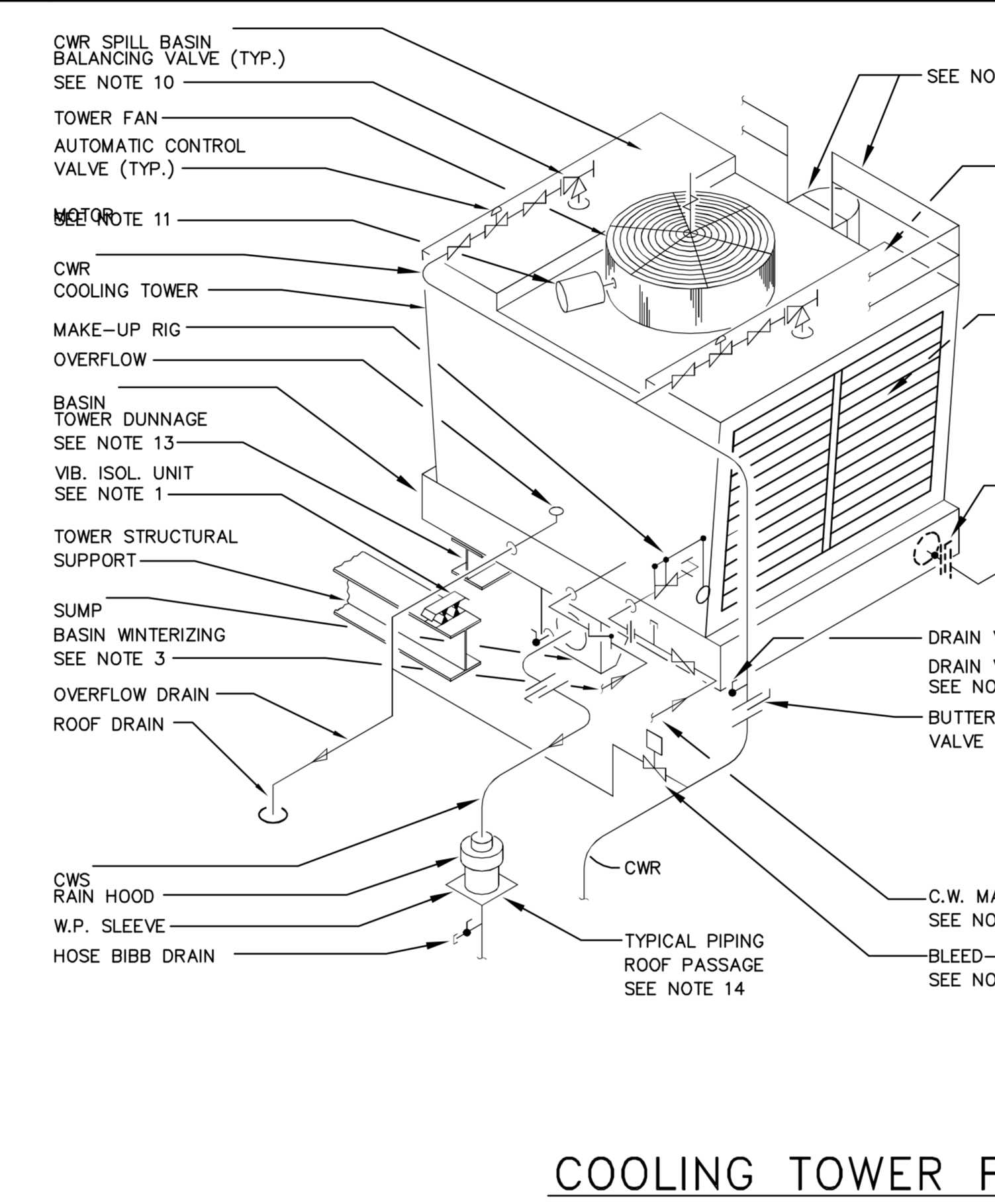
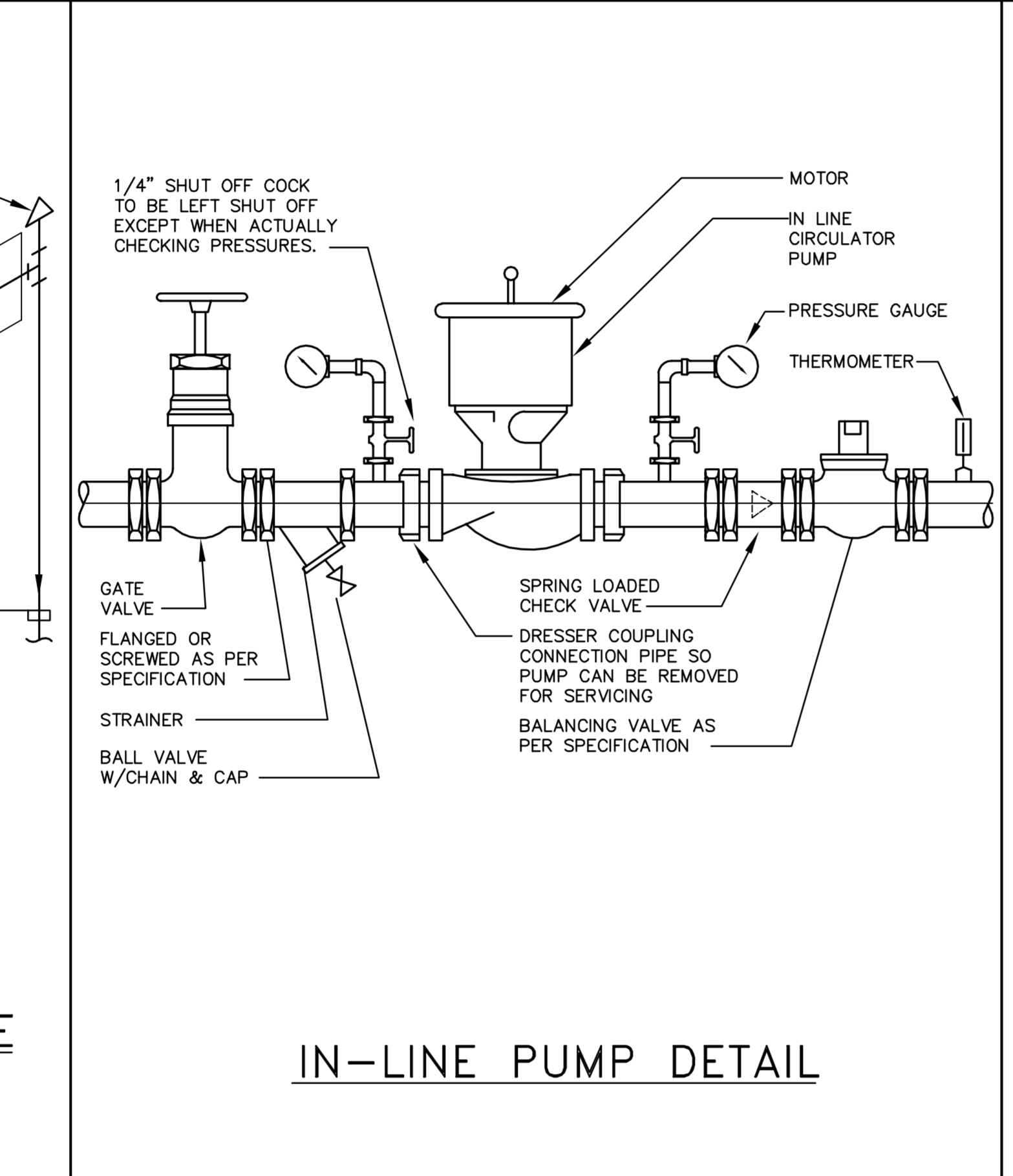
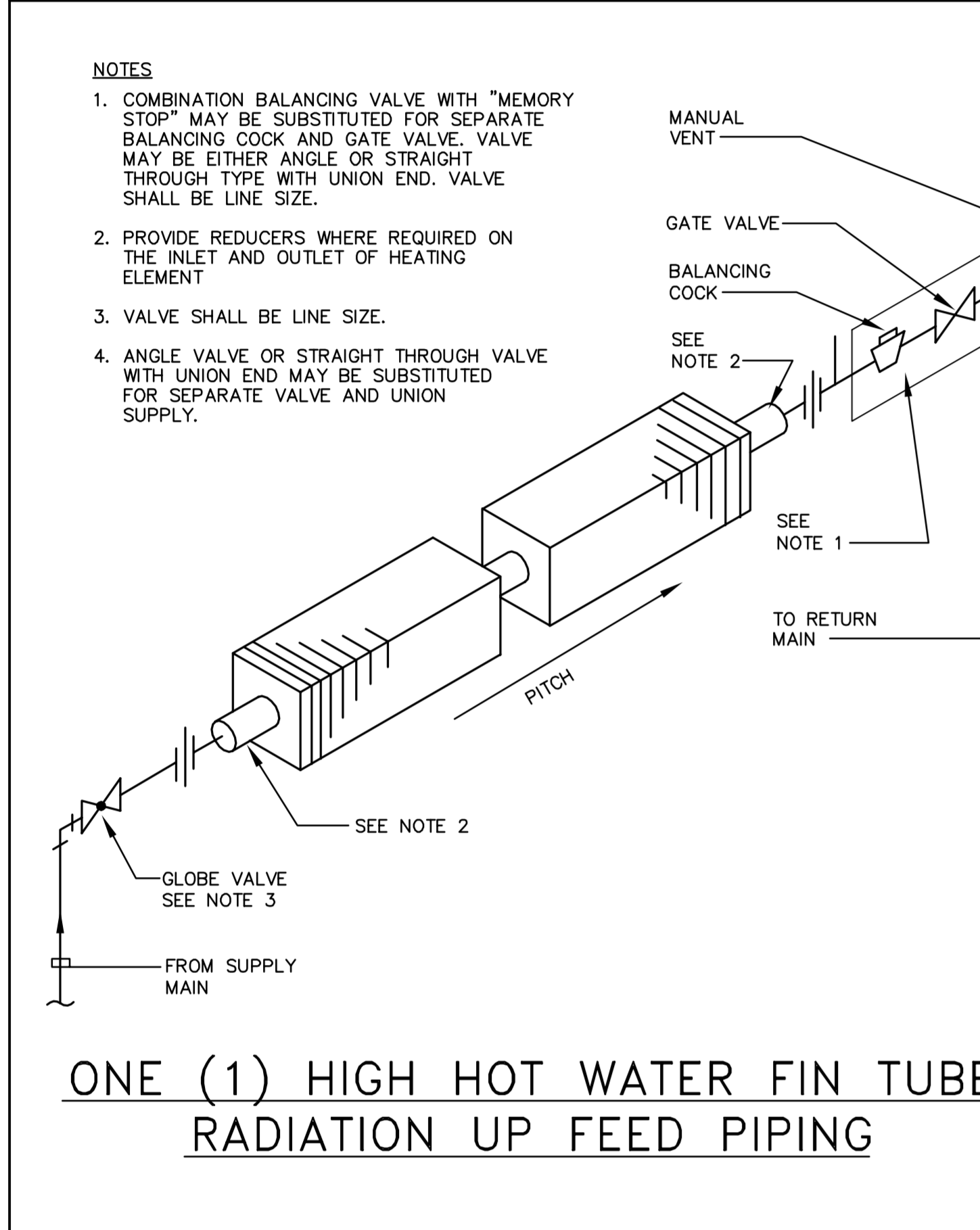
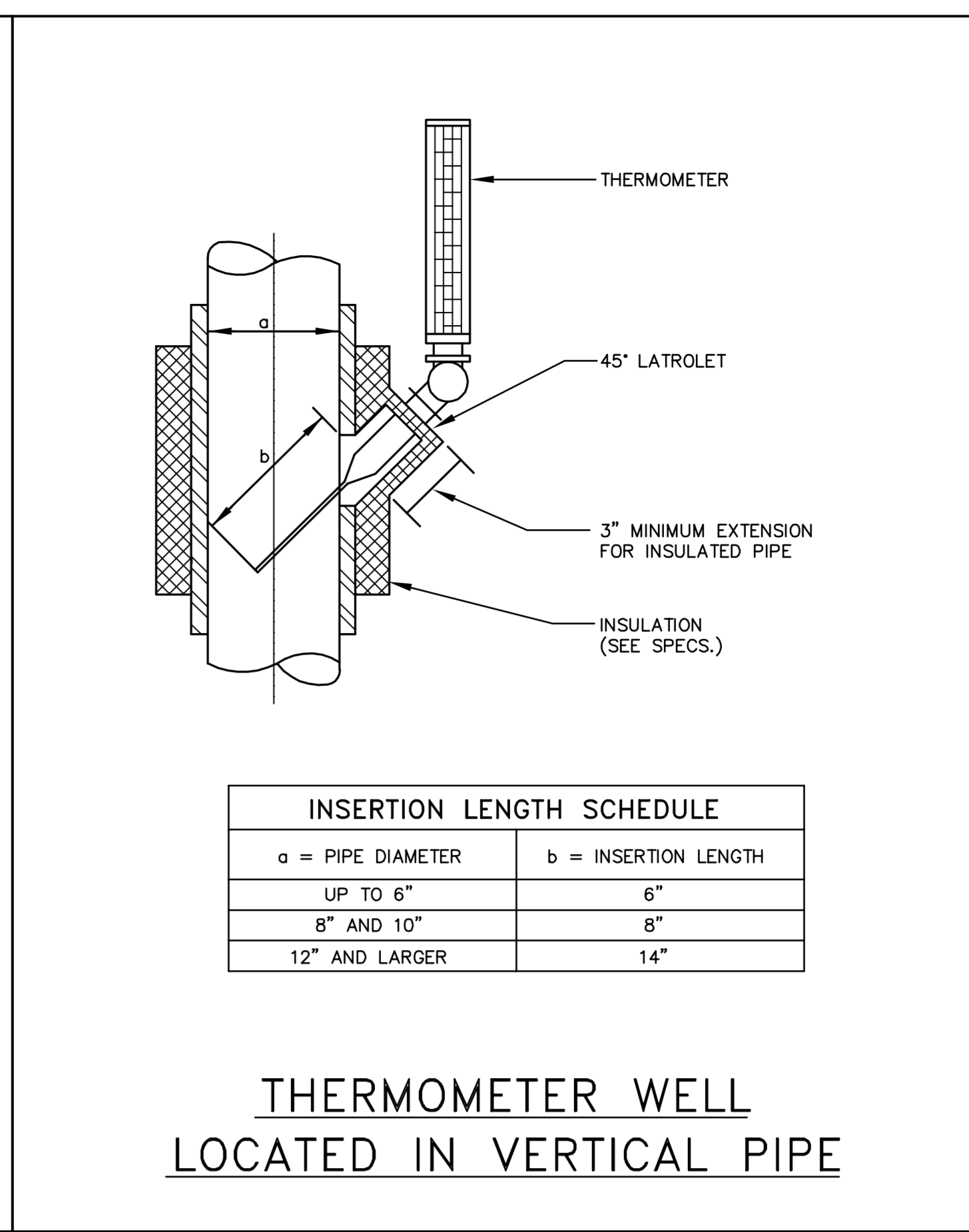
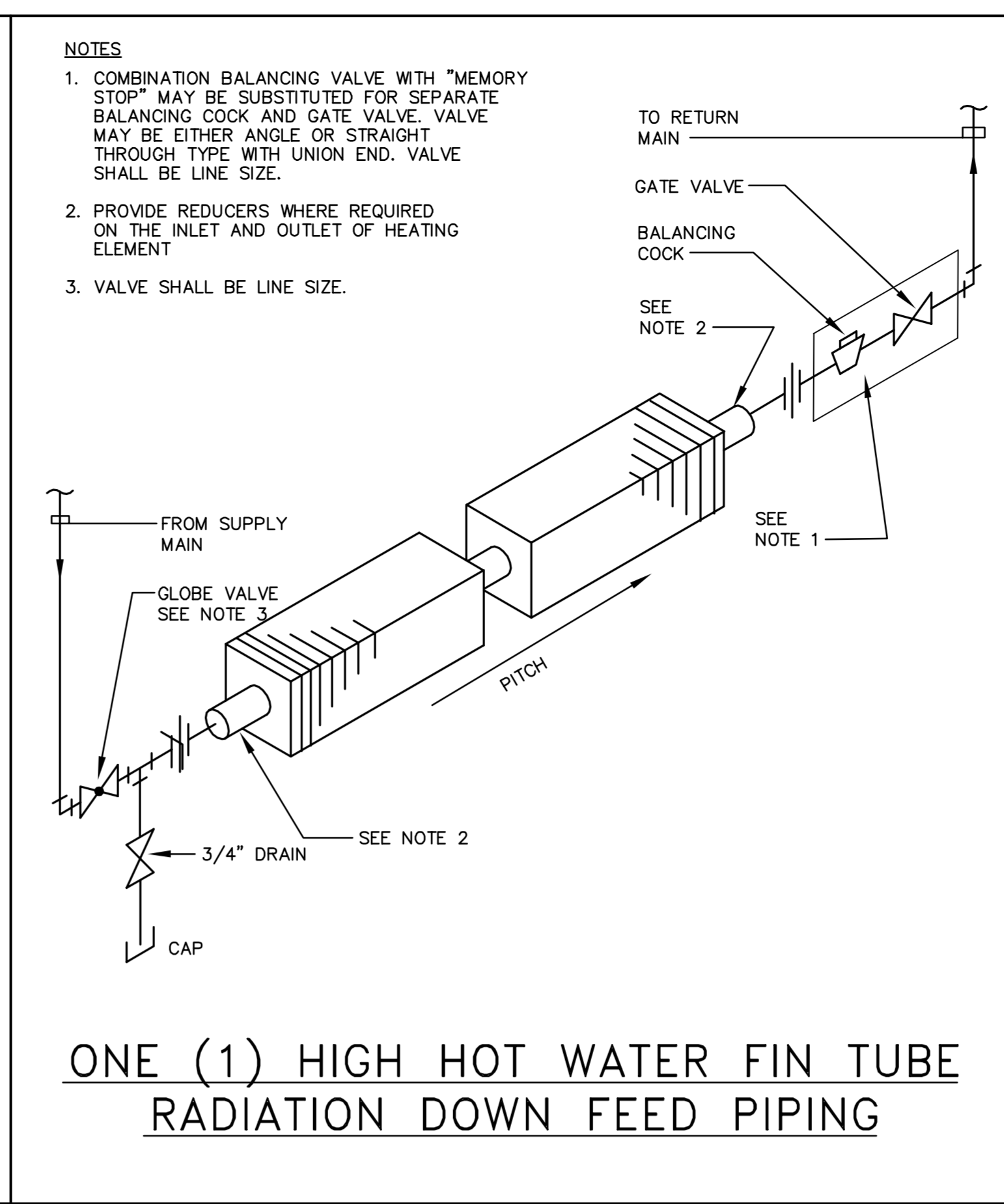
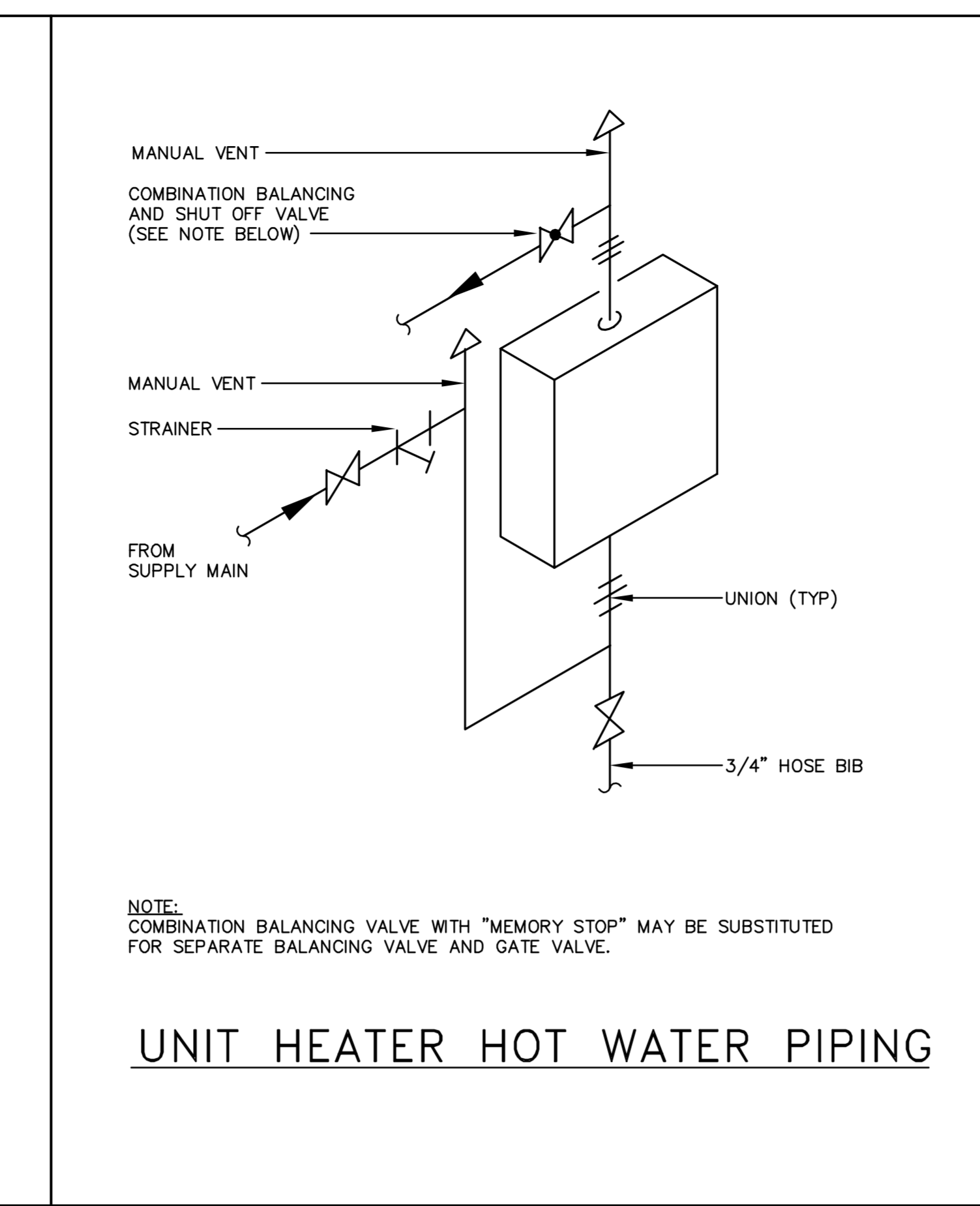
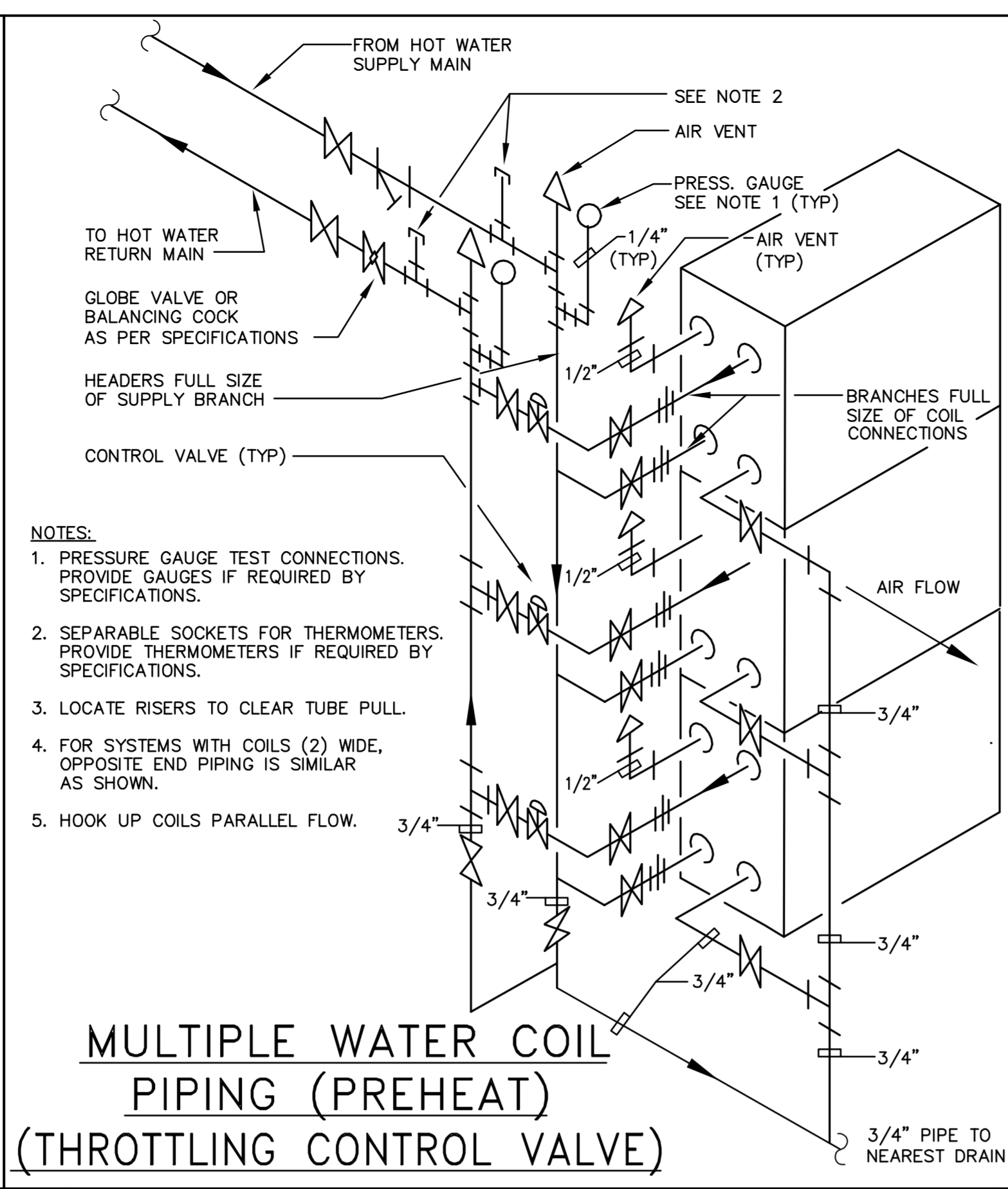
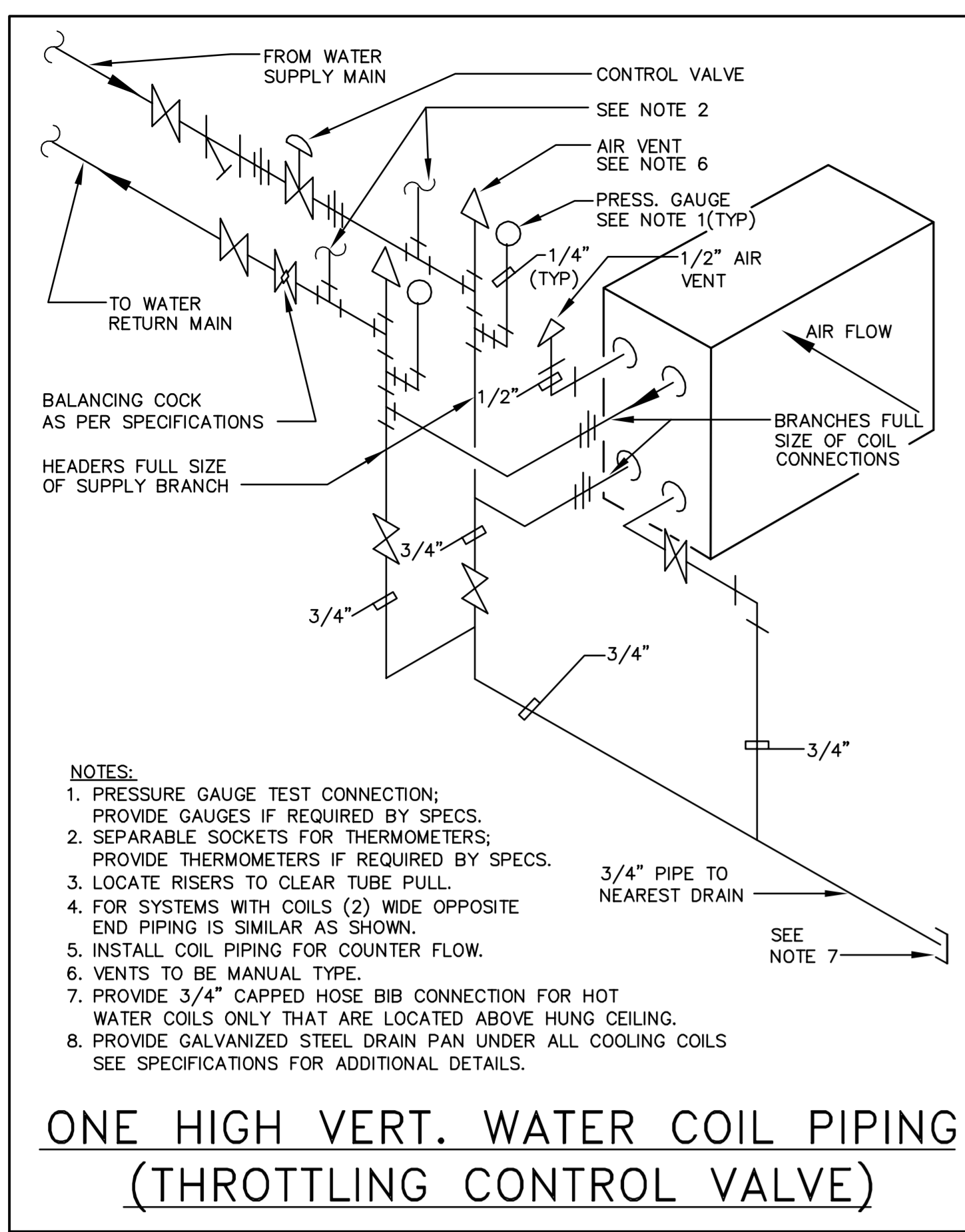
UNIT HEATER TO BE MOUNTED FROM STRUCTURE ABOVE WITH VIBRATION ISOLATORS.

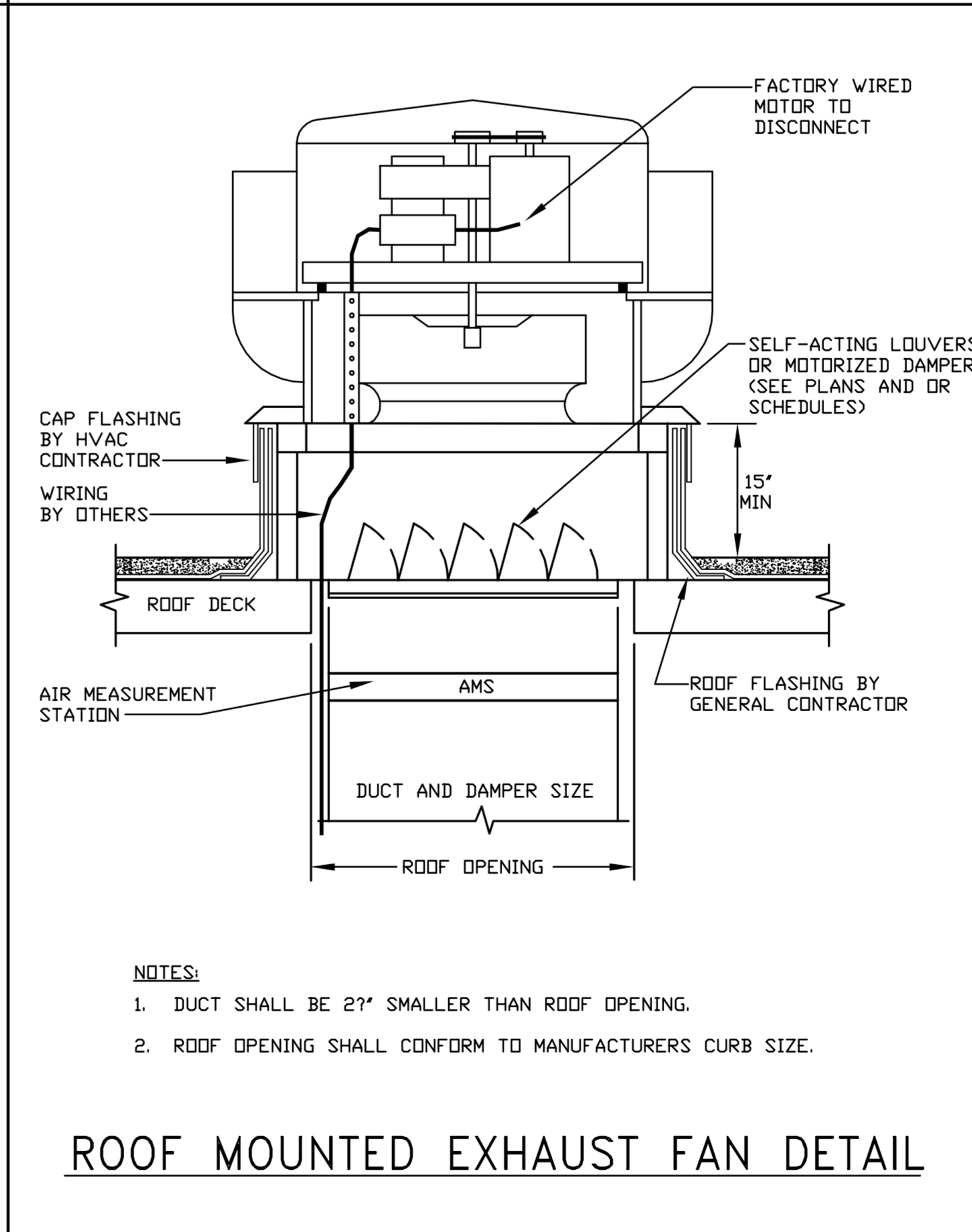
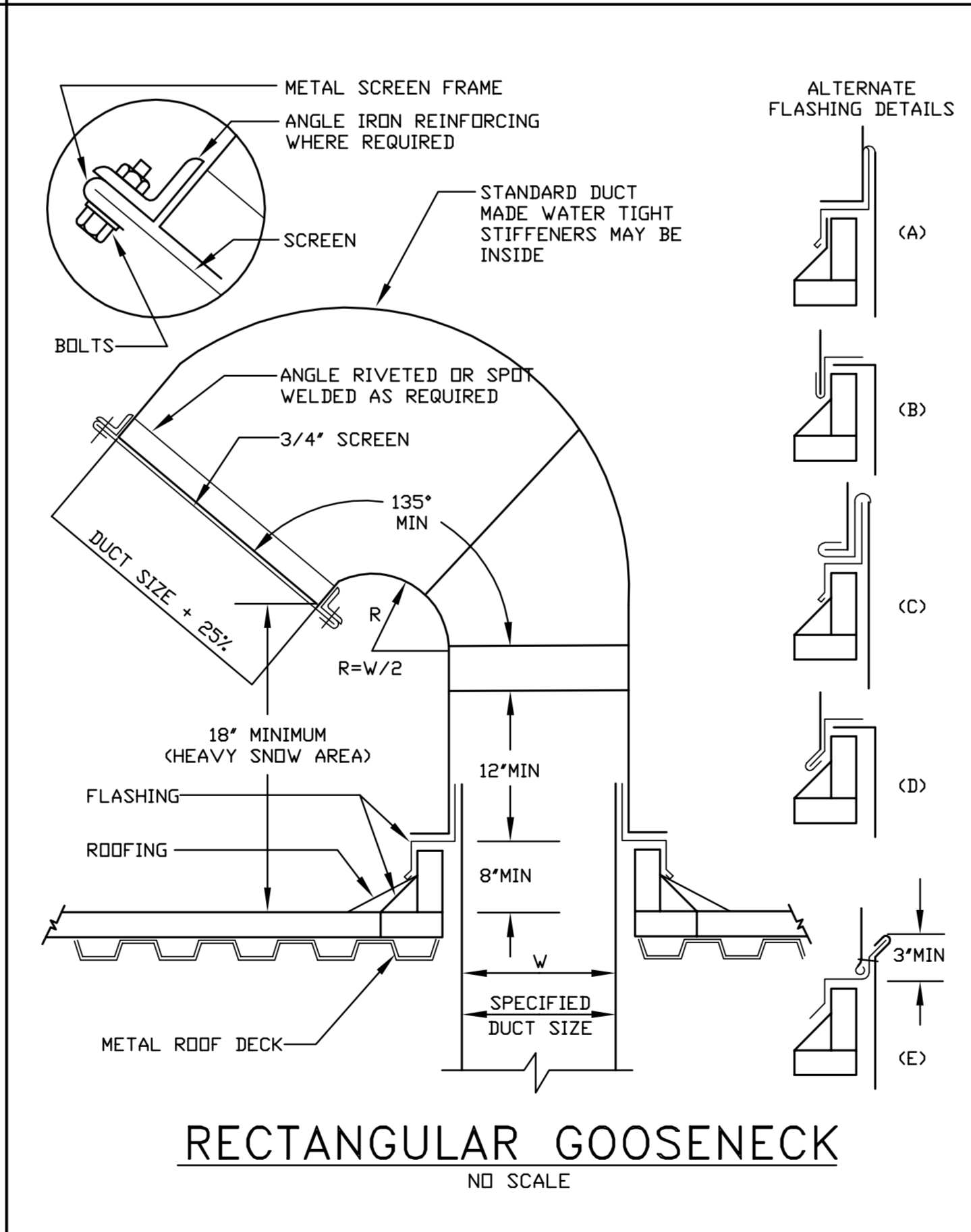
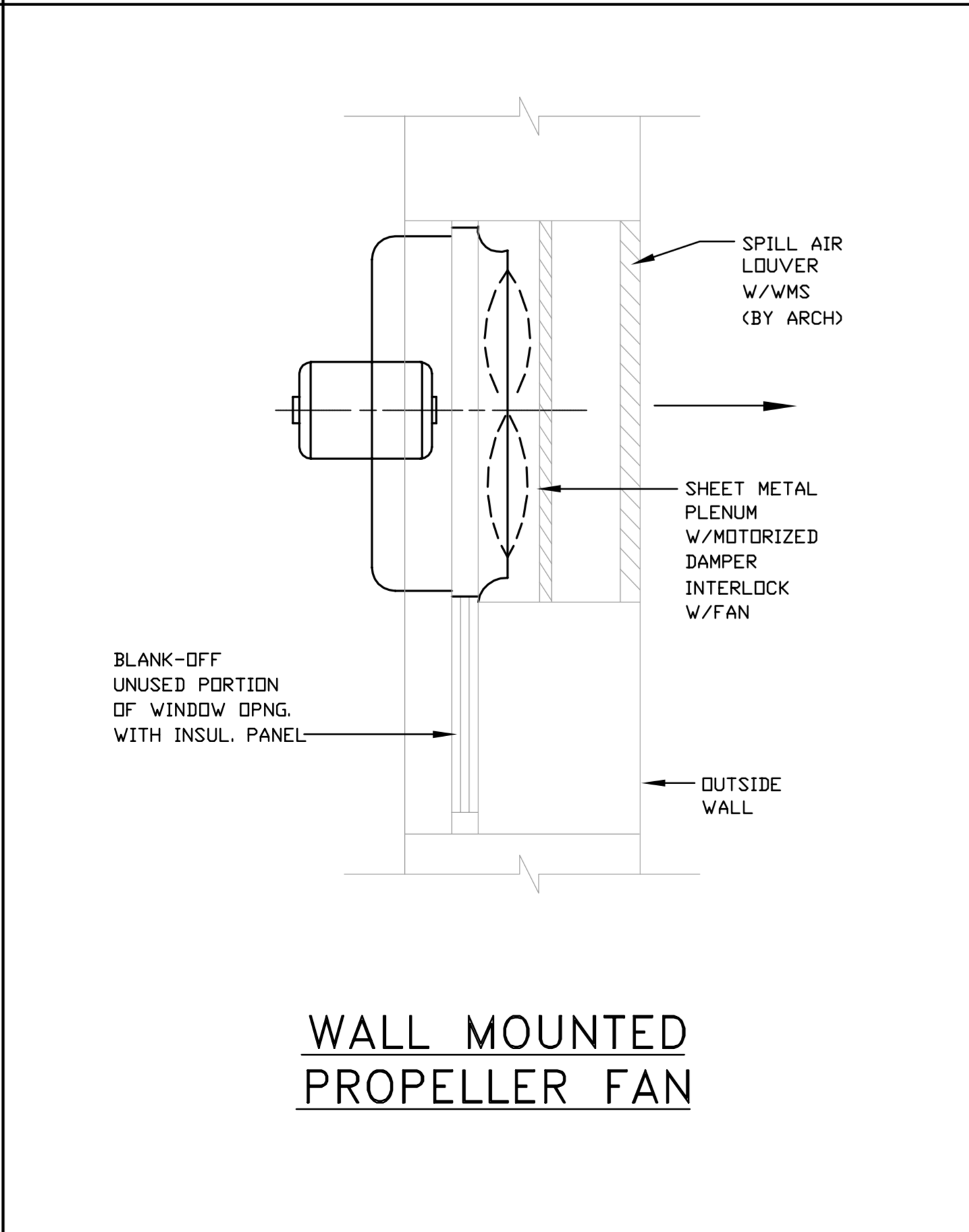
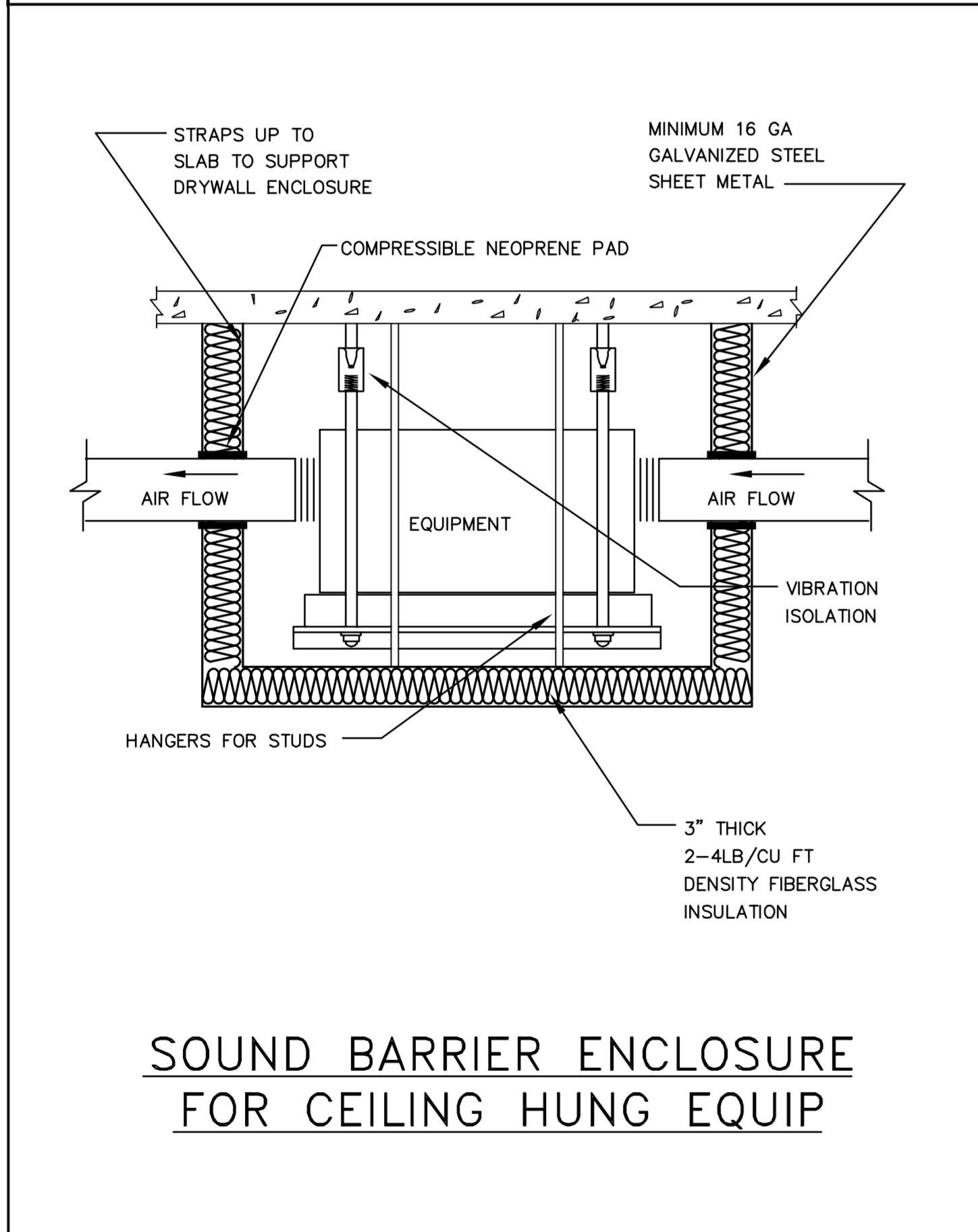
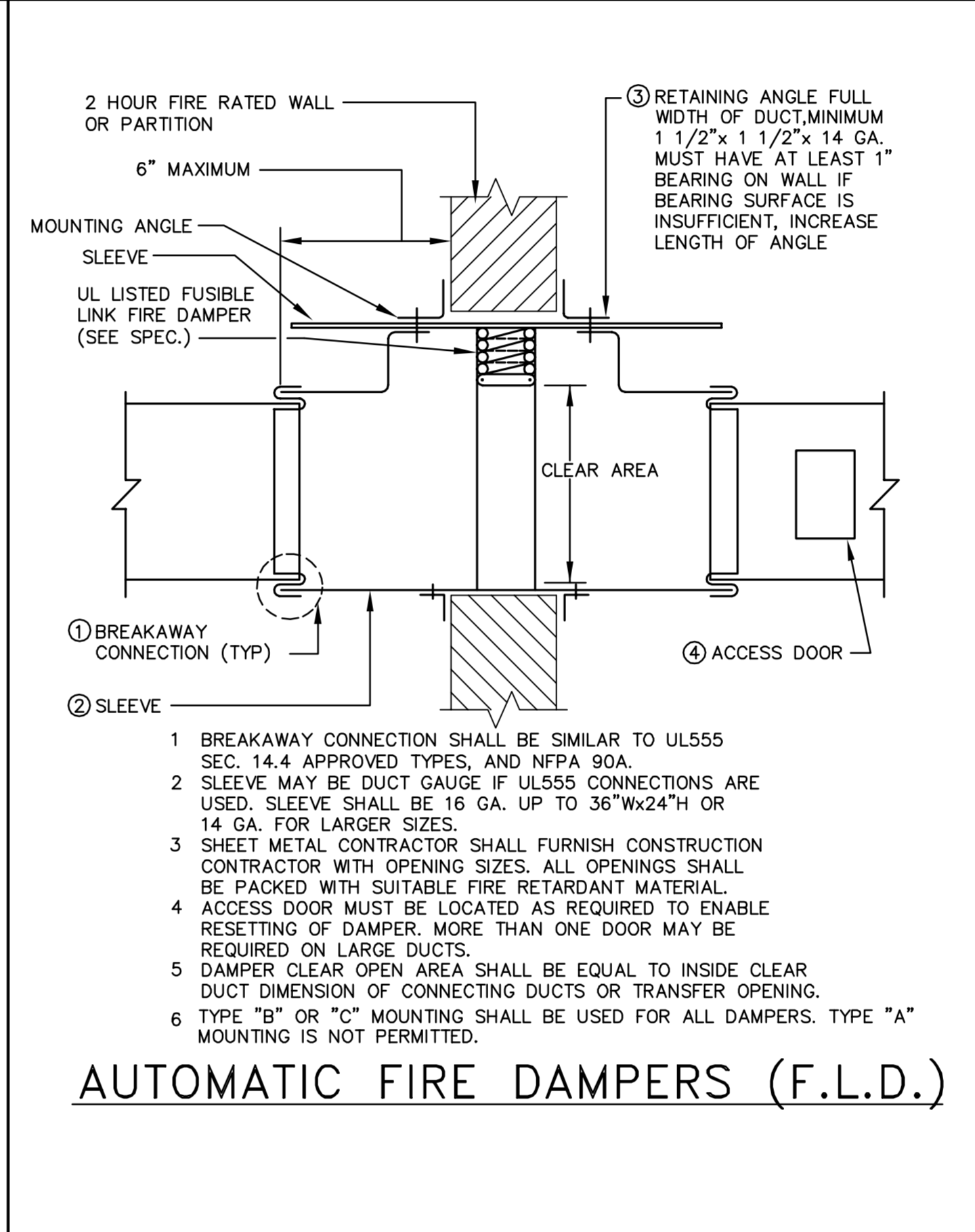
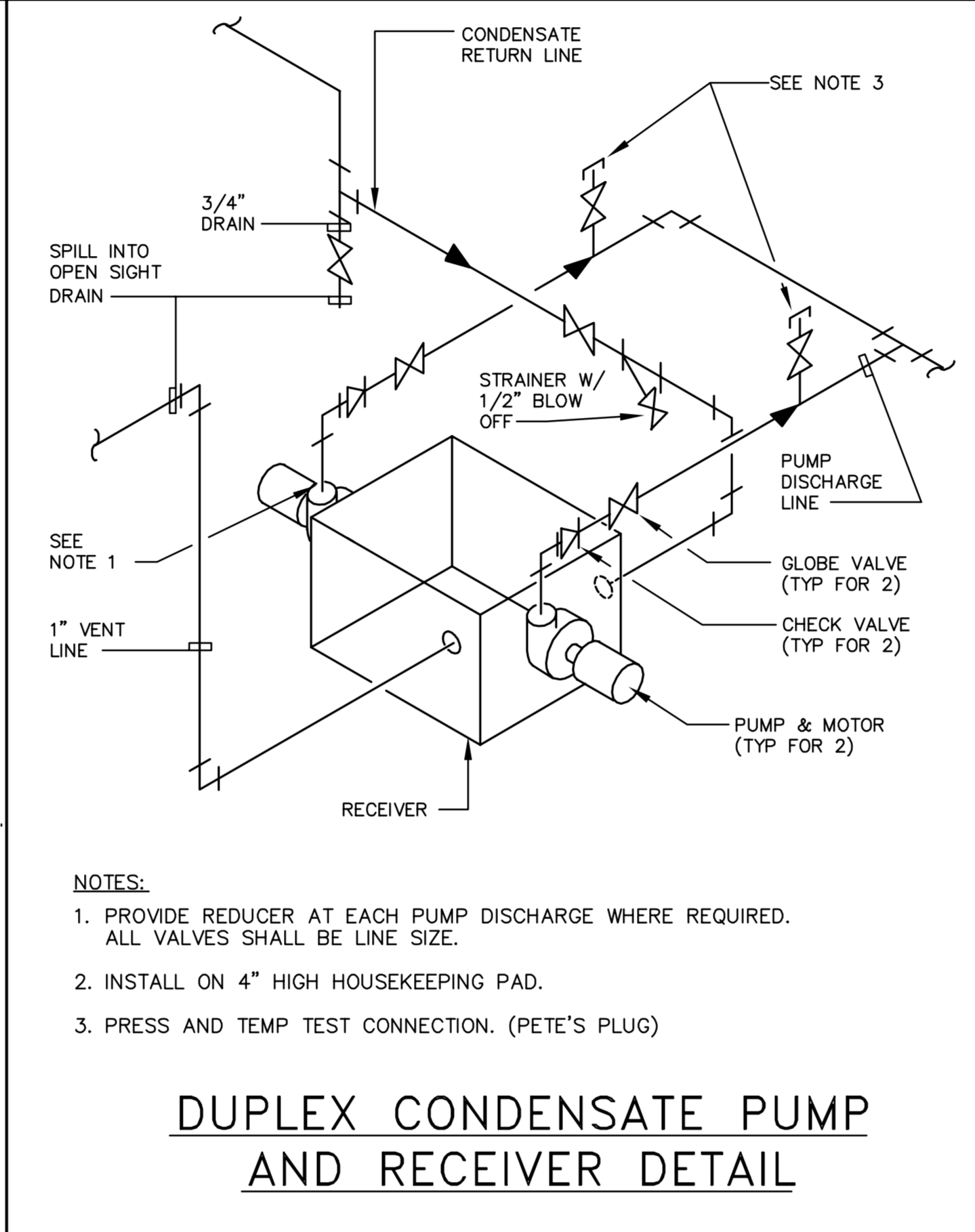
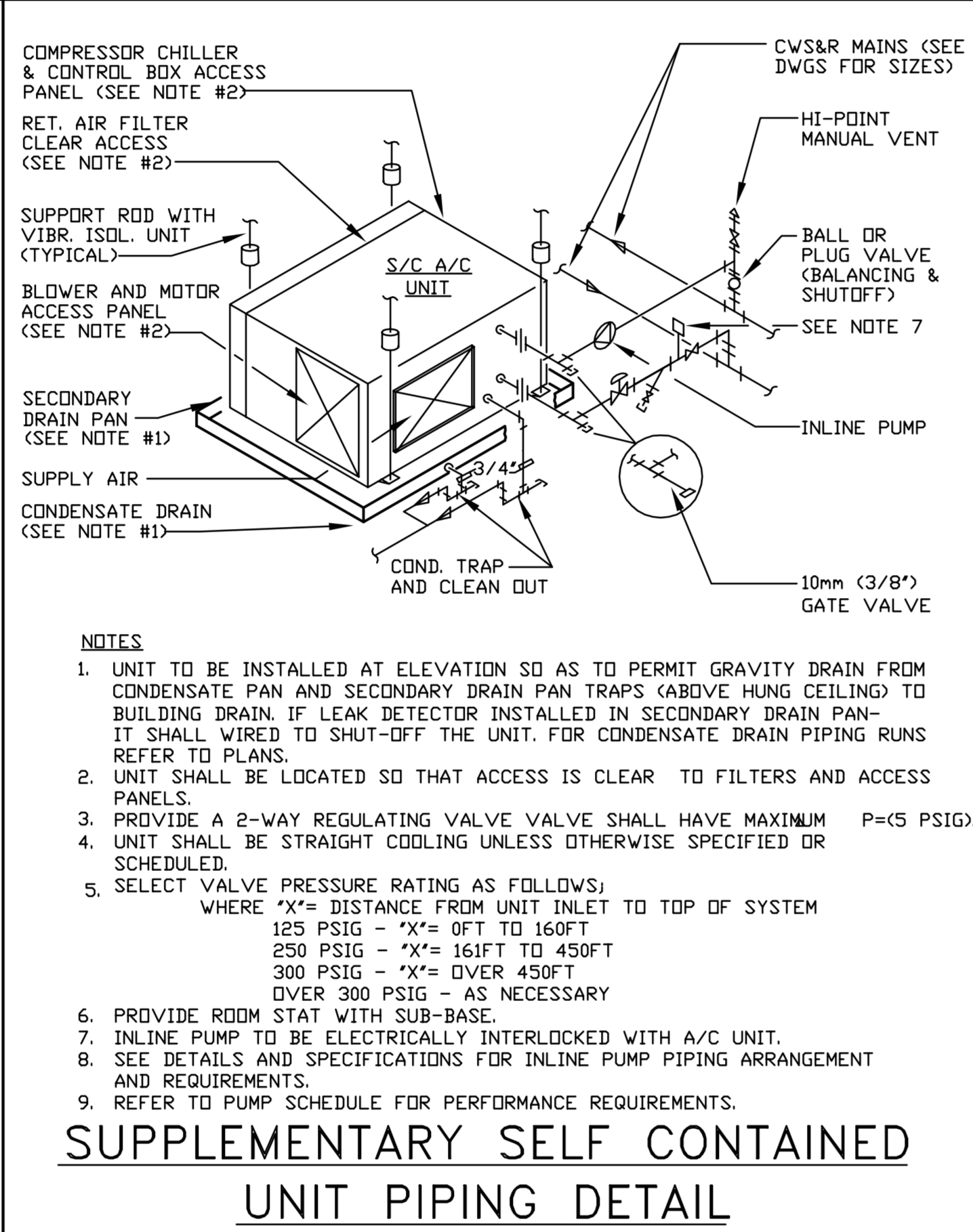
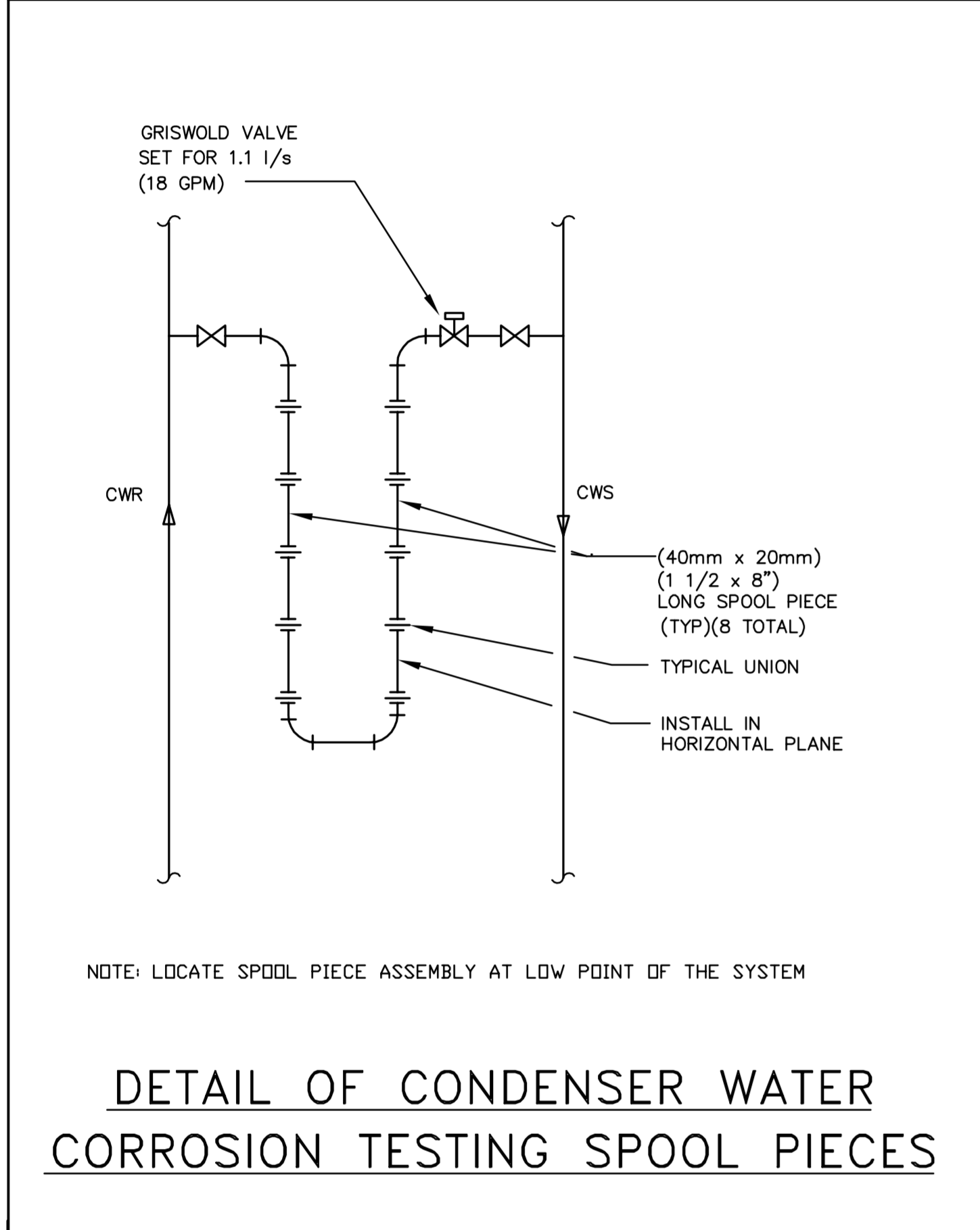
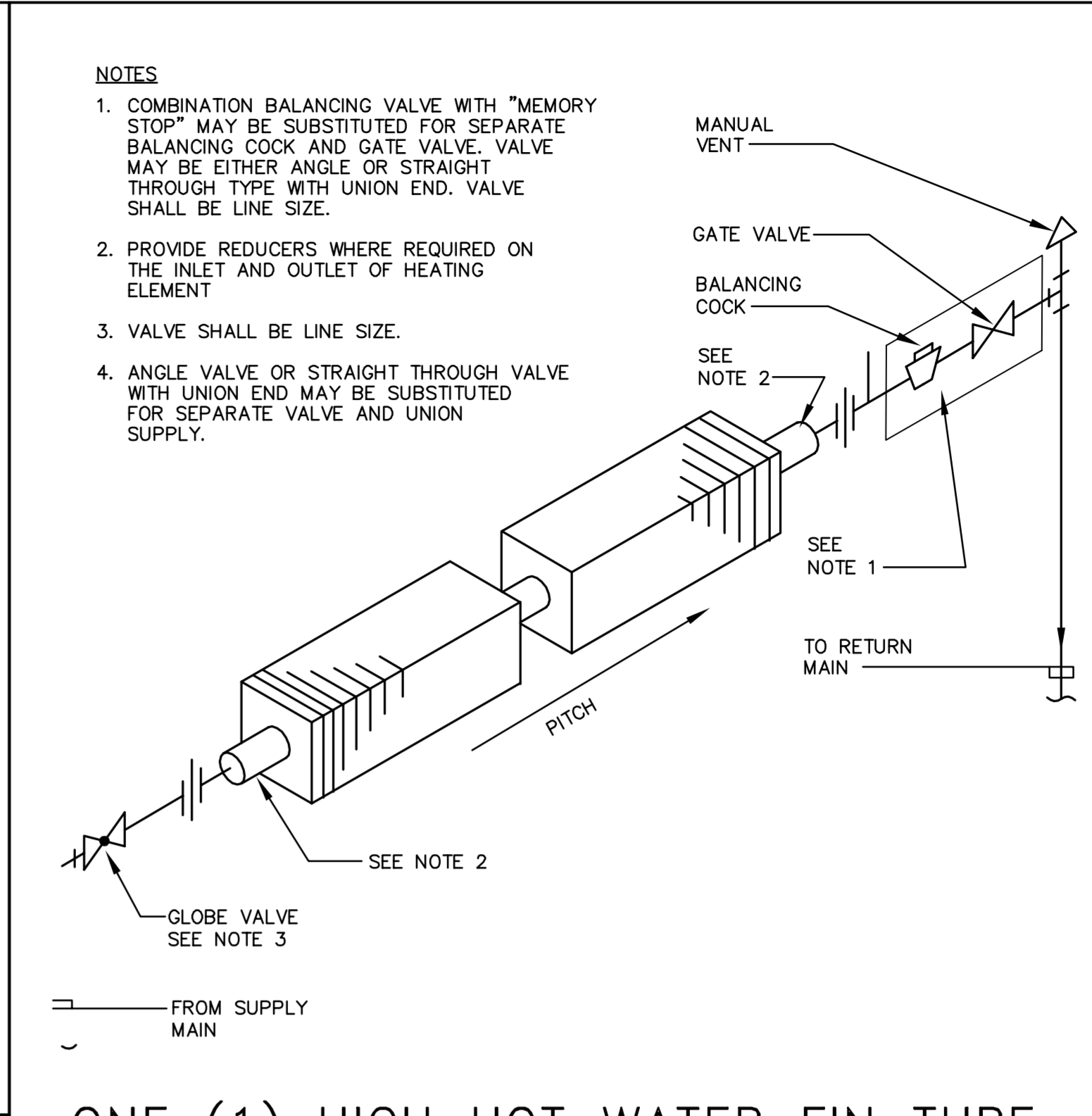
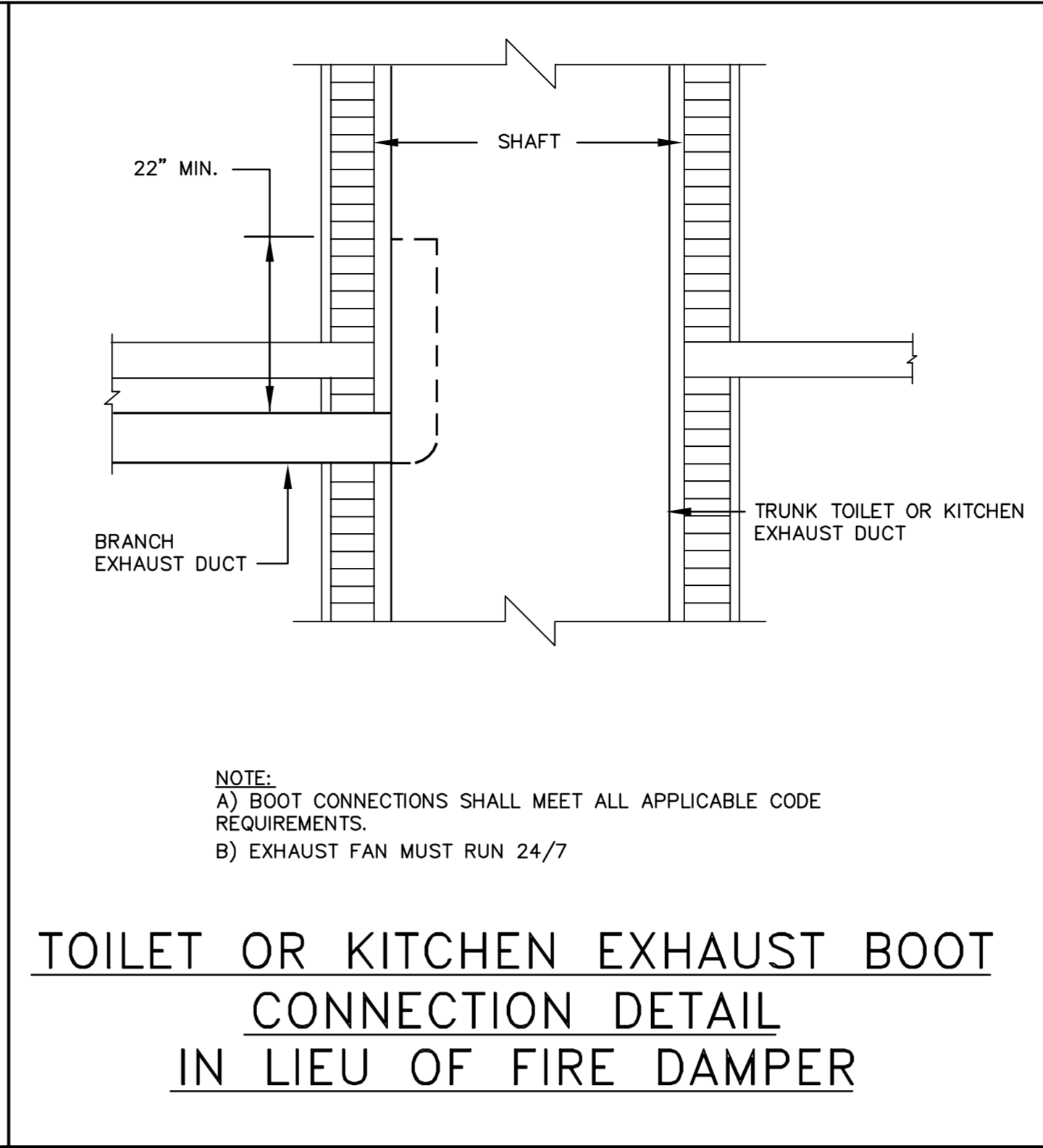
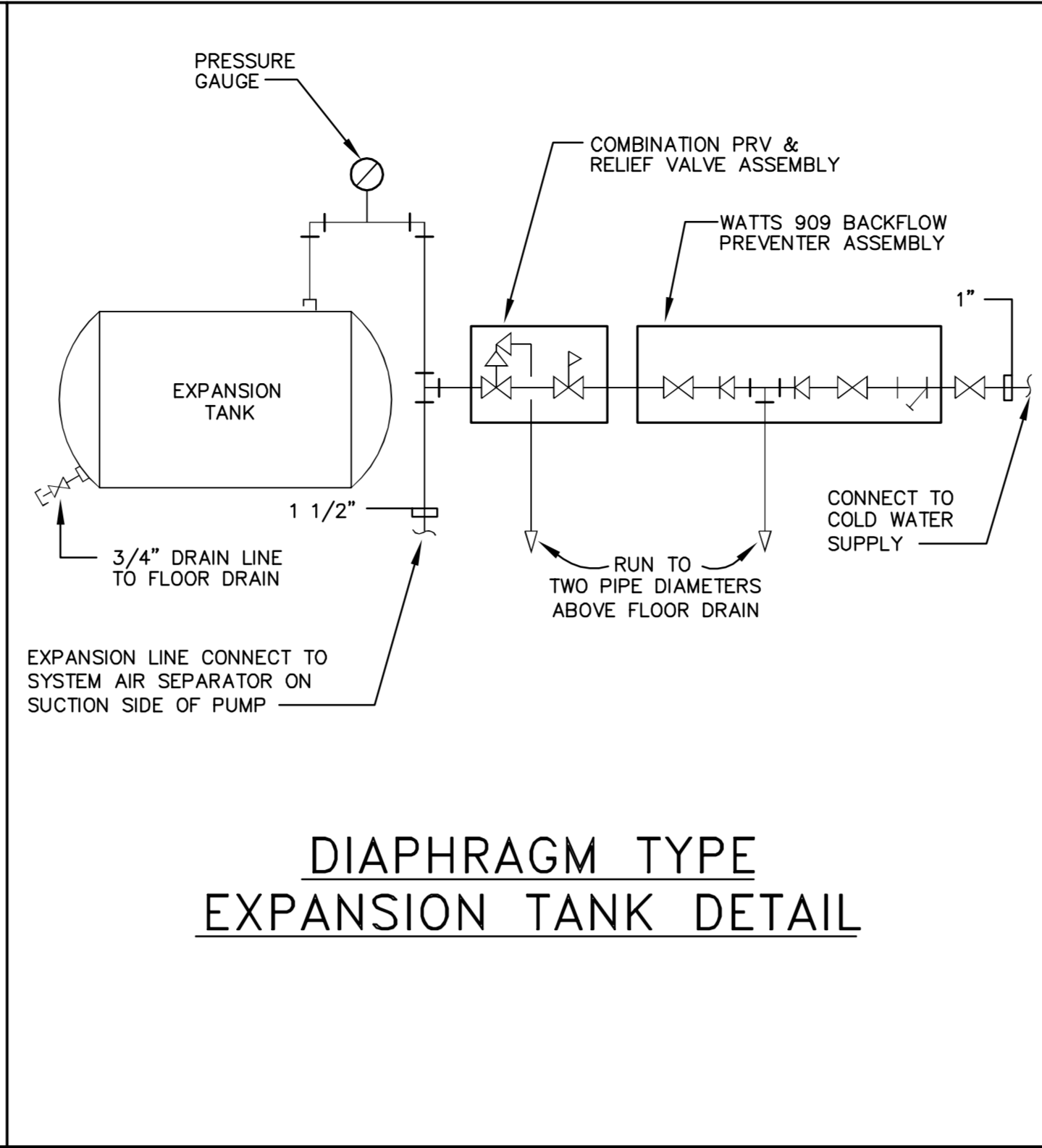
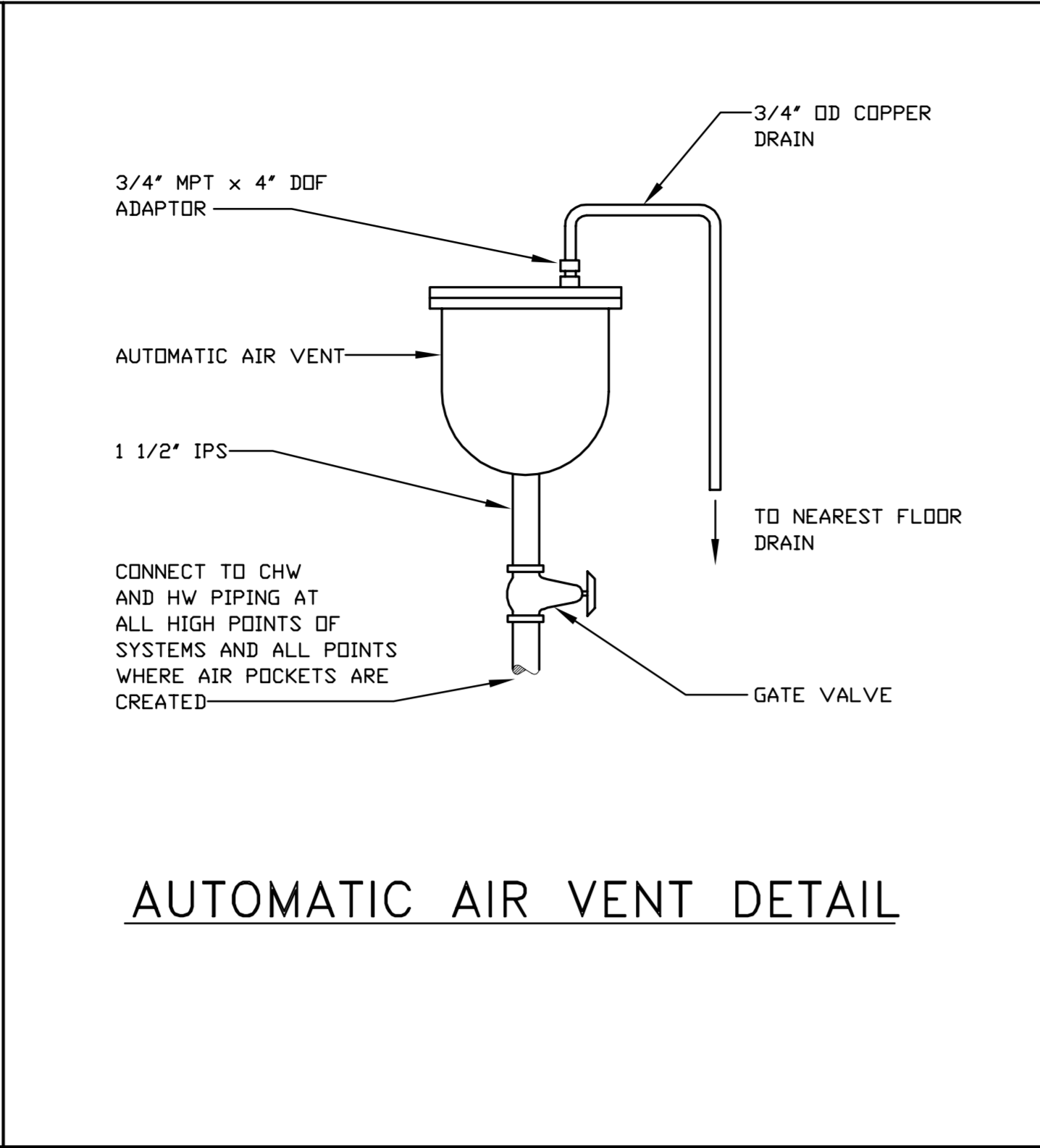
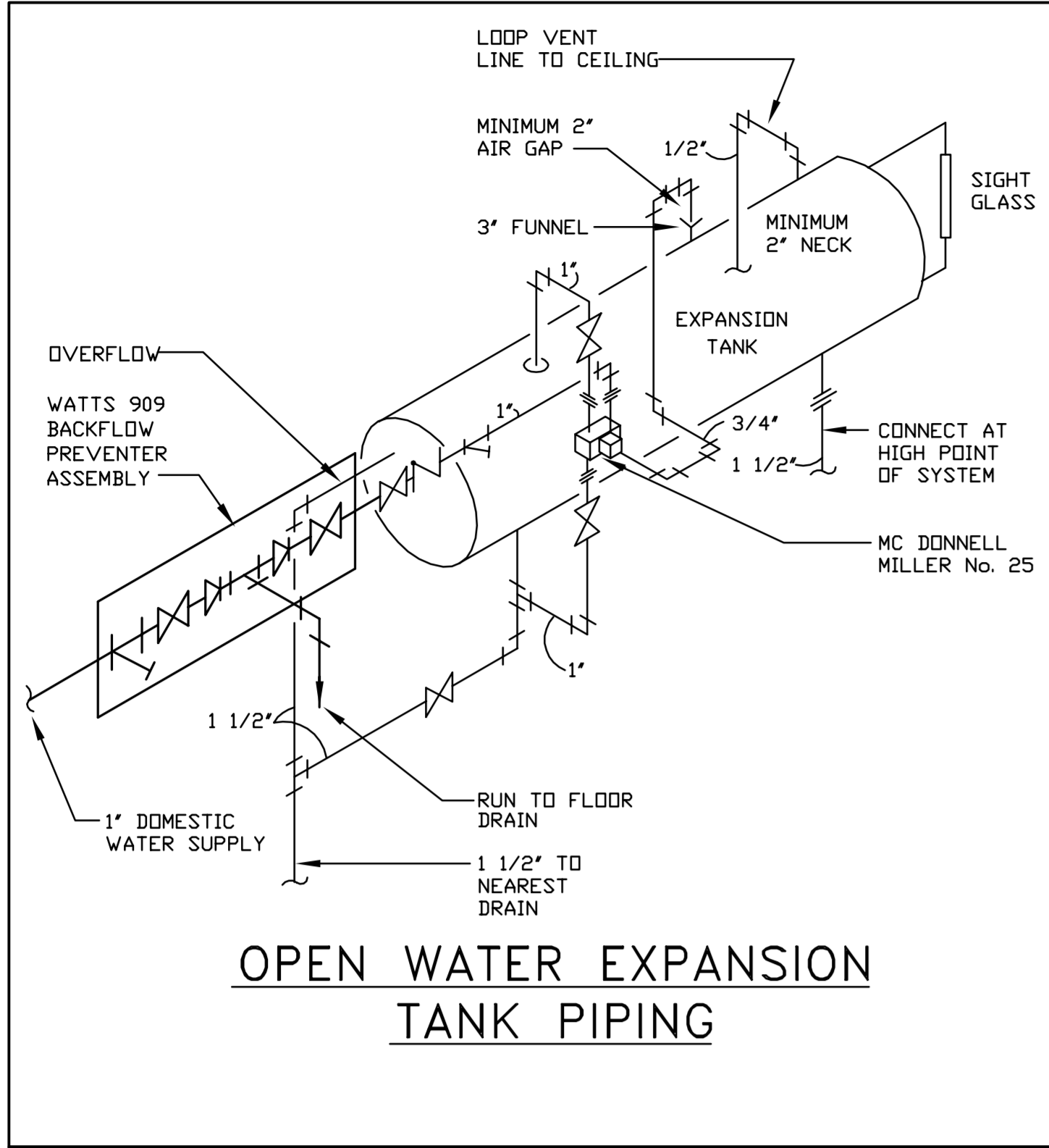
PROVIDE FAN GUARDS, HORIZONTAL AND VERTICAL AIR DEFLECTION LOUVERS AND WALL THERMOSTAT FOR EACH UNIT HEATER.

PROVIDE BLEED PORTS ON ALL CONTROL VALVES

PROVIDE (BY MANUFACTURER) UNIT-MOUNTED THERMOSTAT AND FAN VALVE CYCLING CONTROLS.

ALL FAN MOTORS ARE LESS THAN 5 HP.





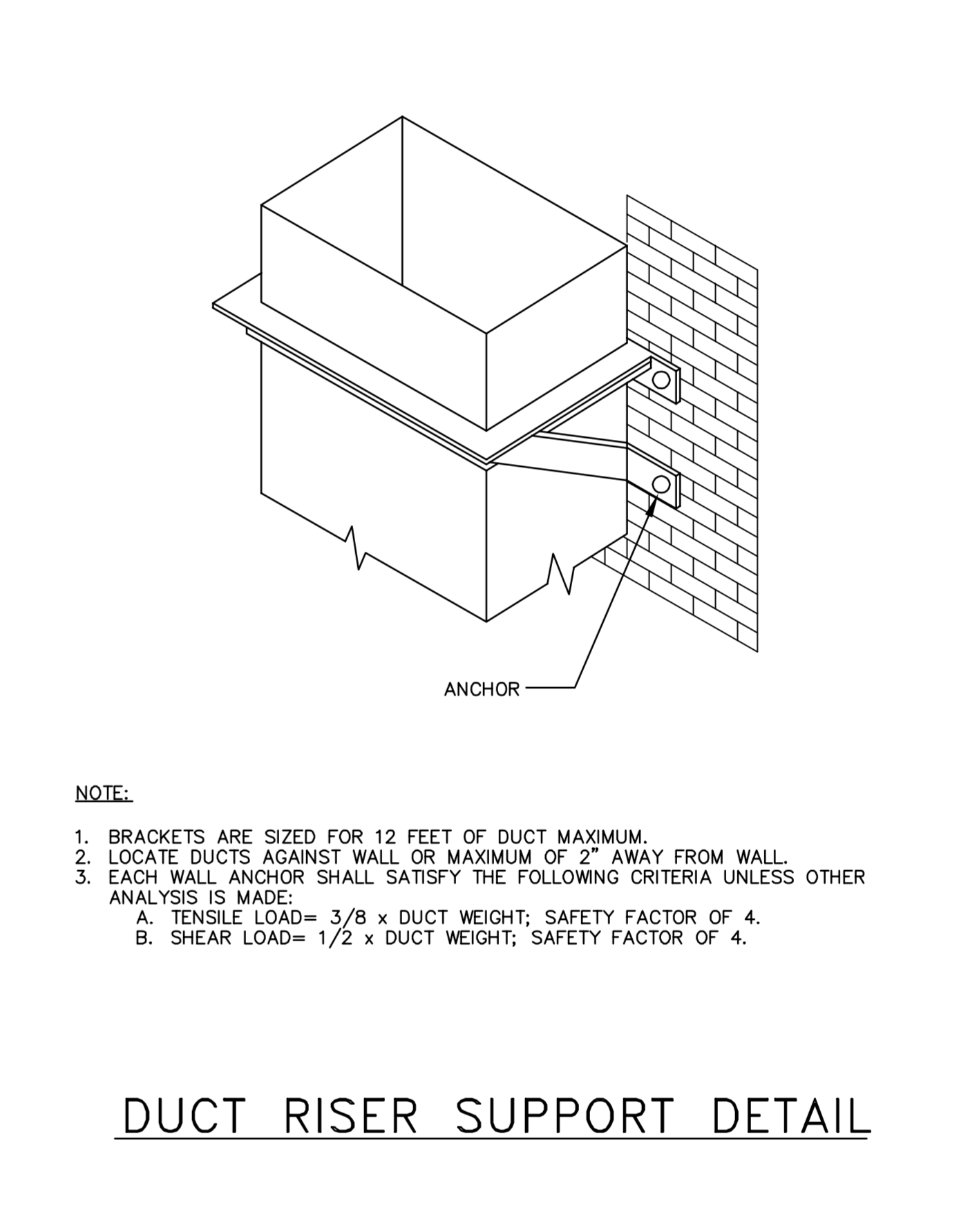
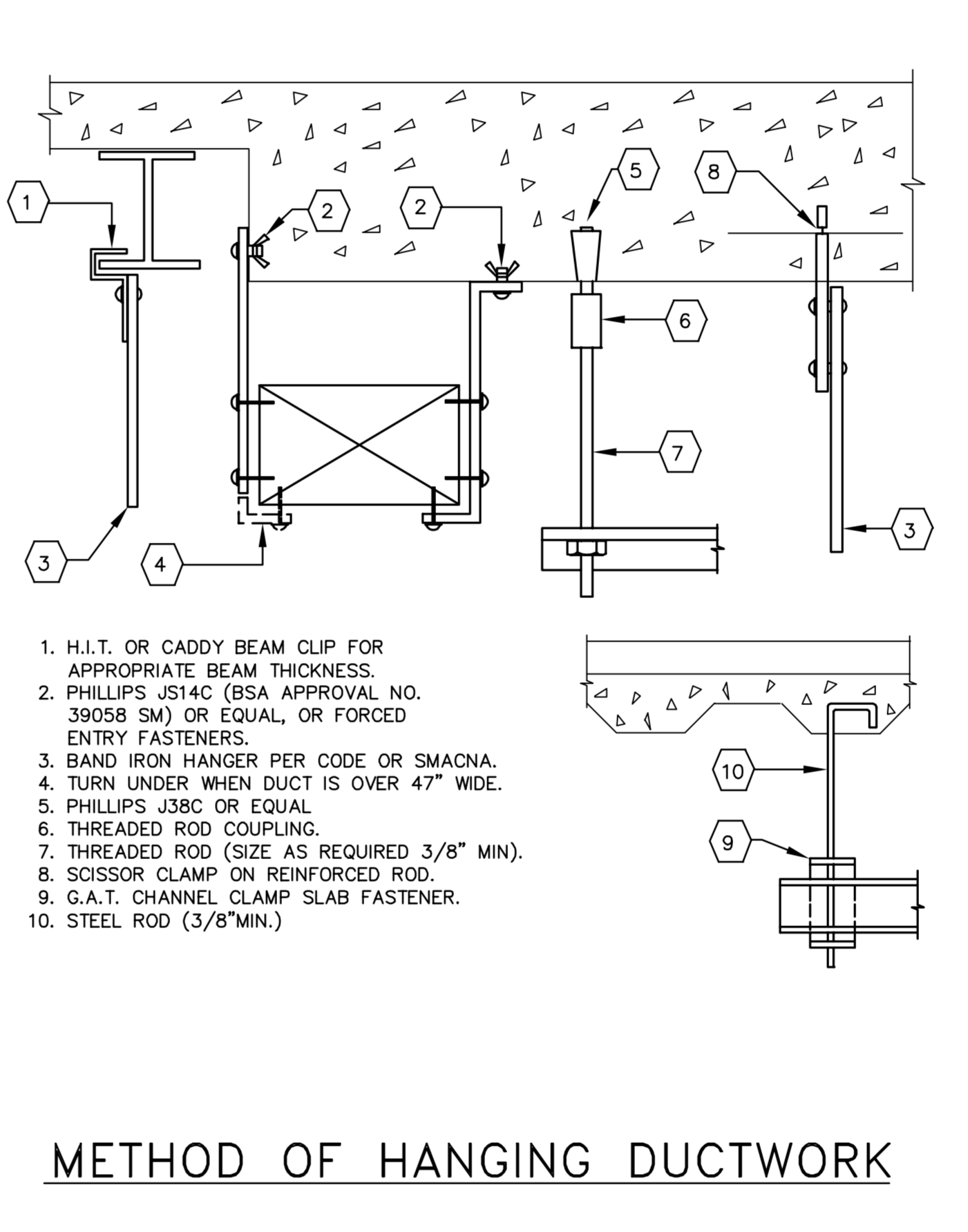
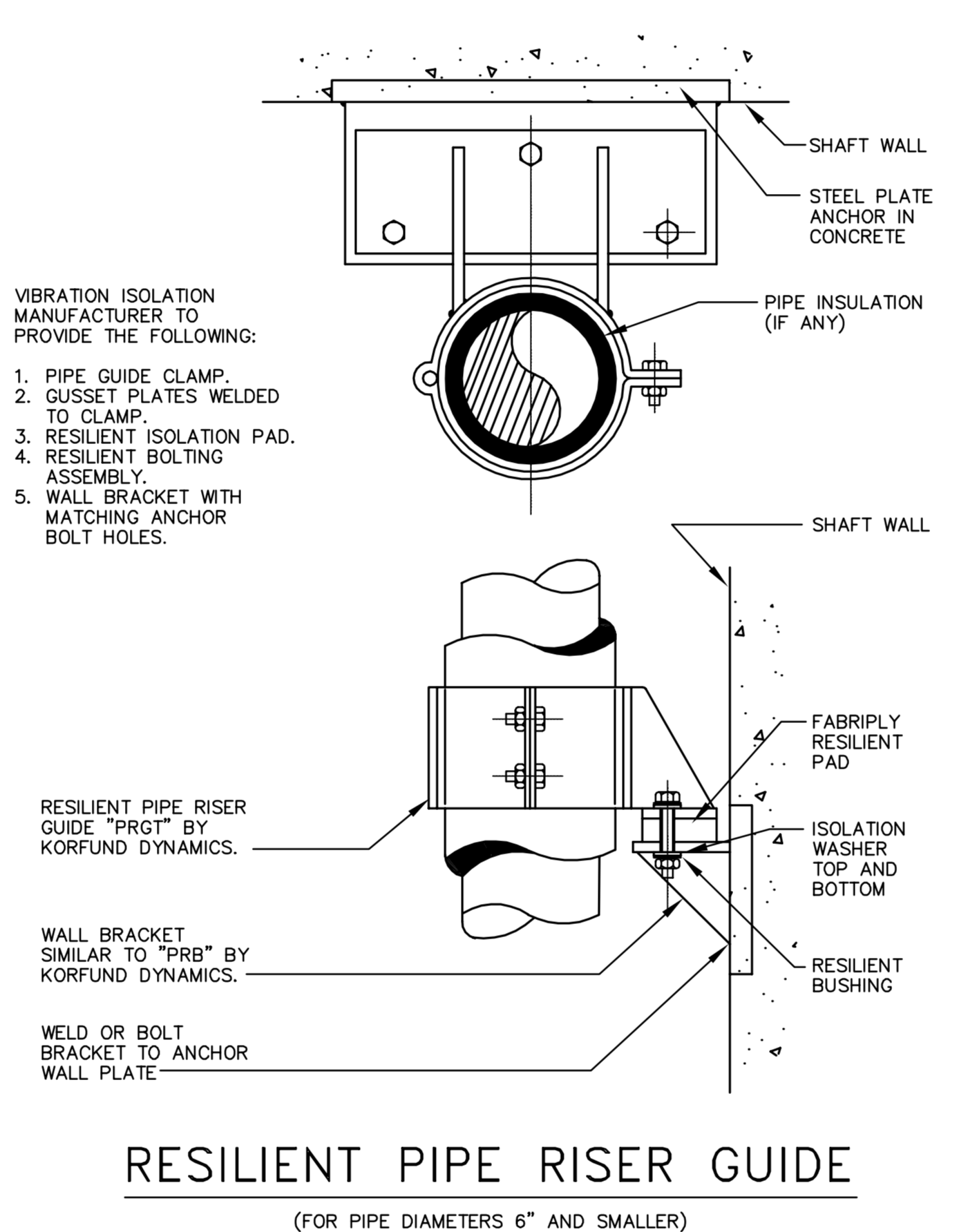
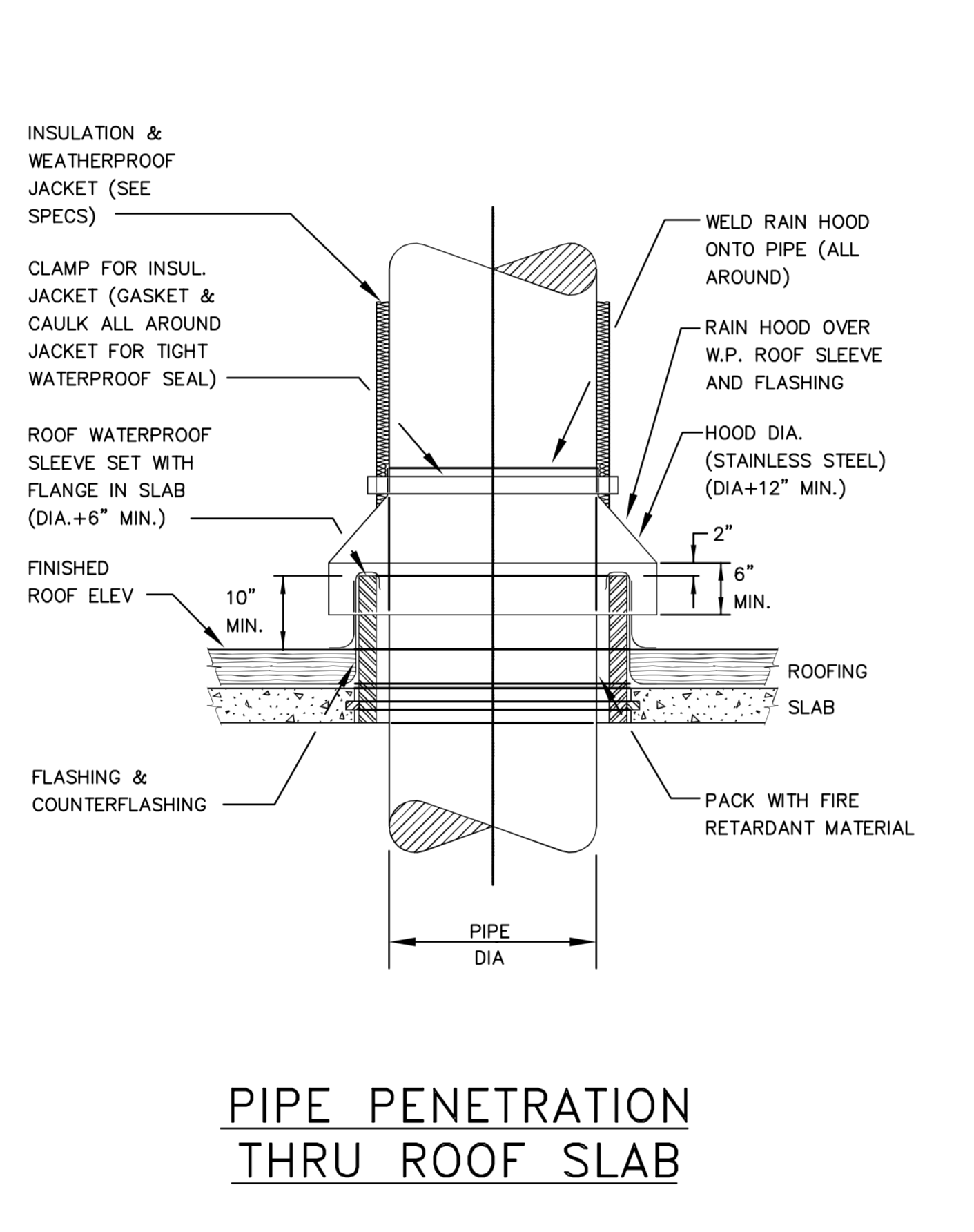
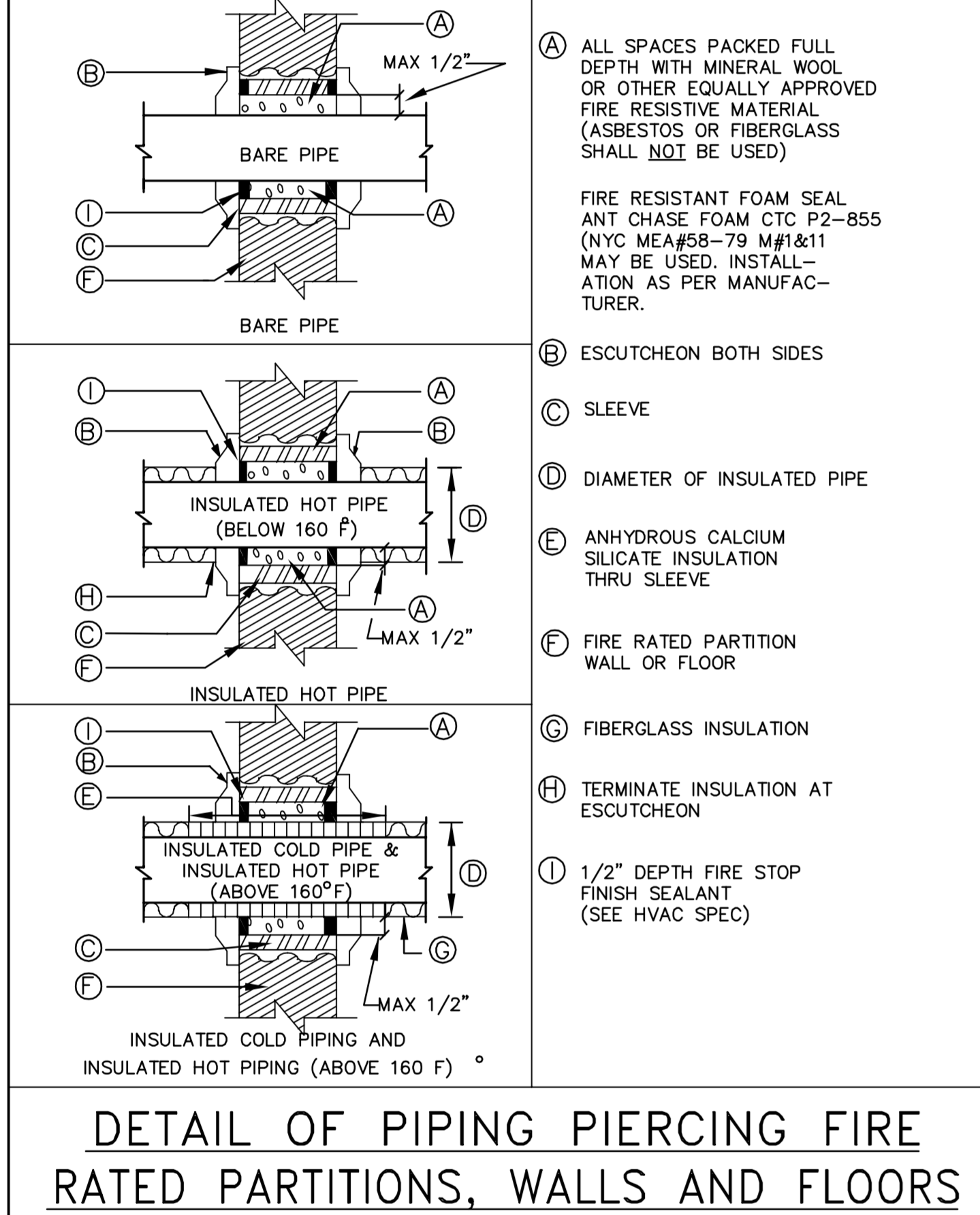
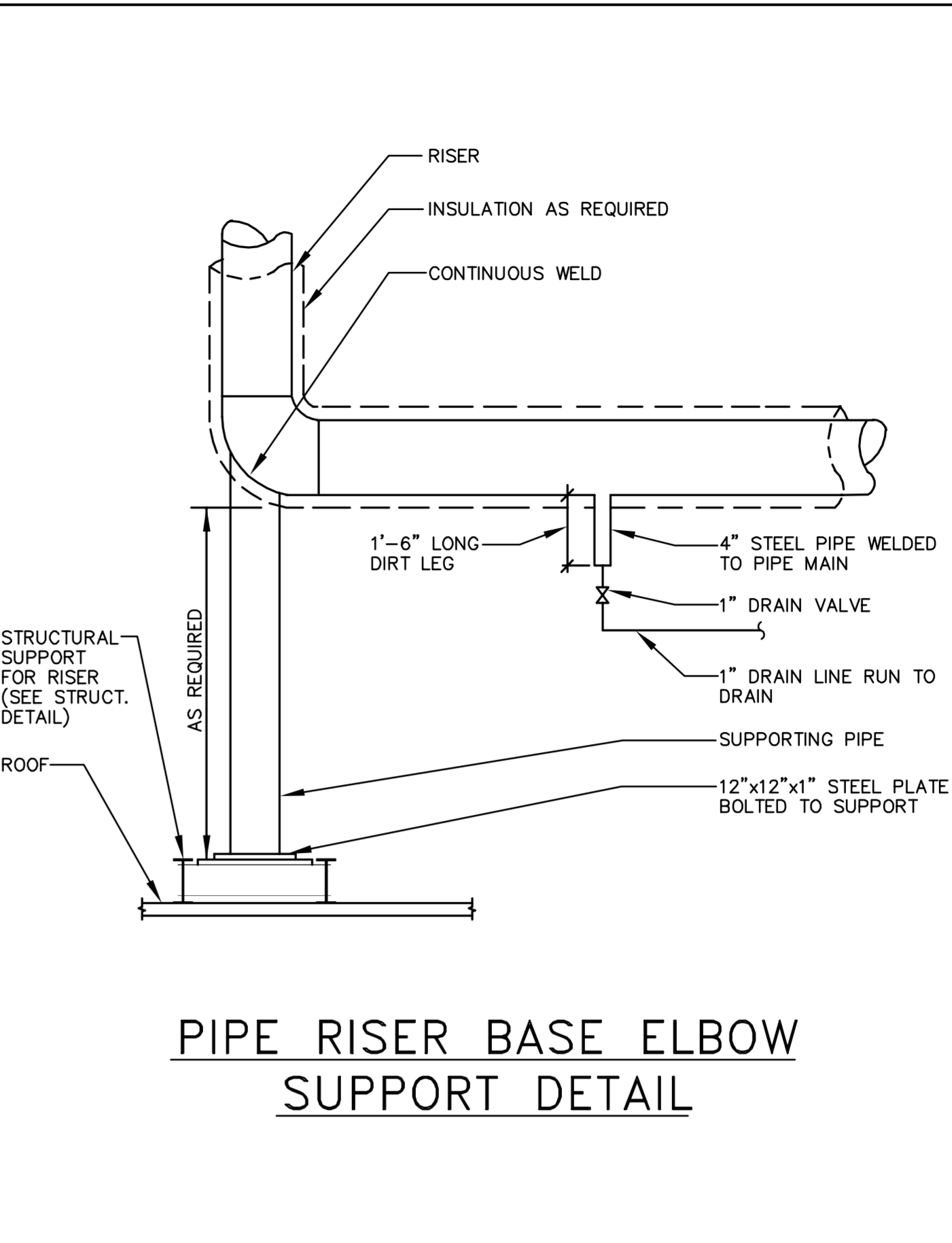
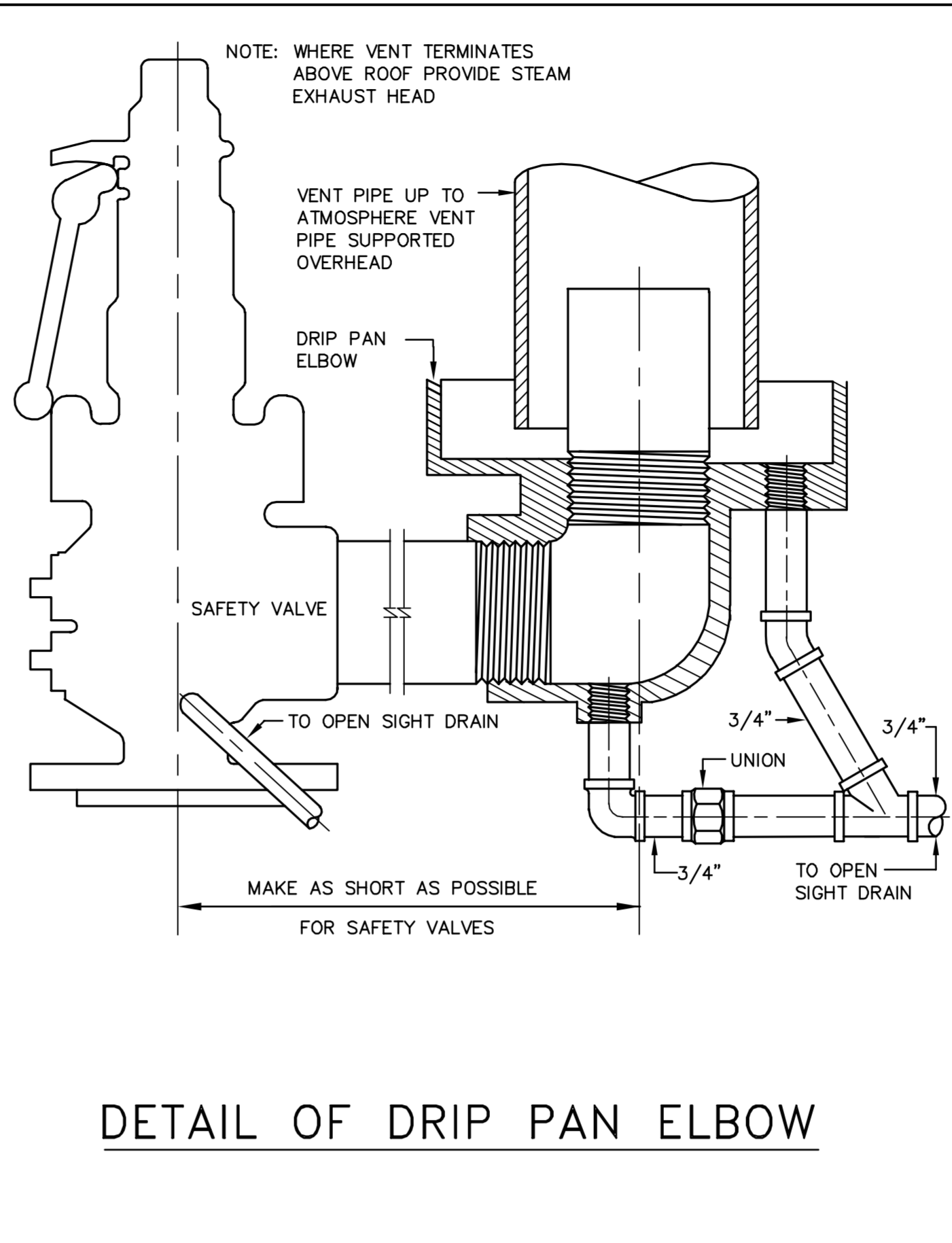
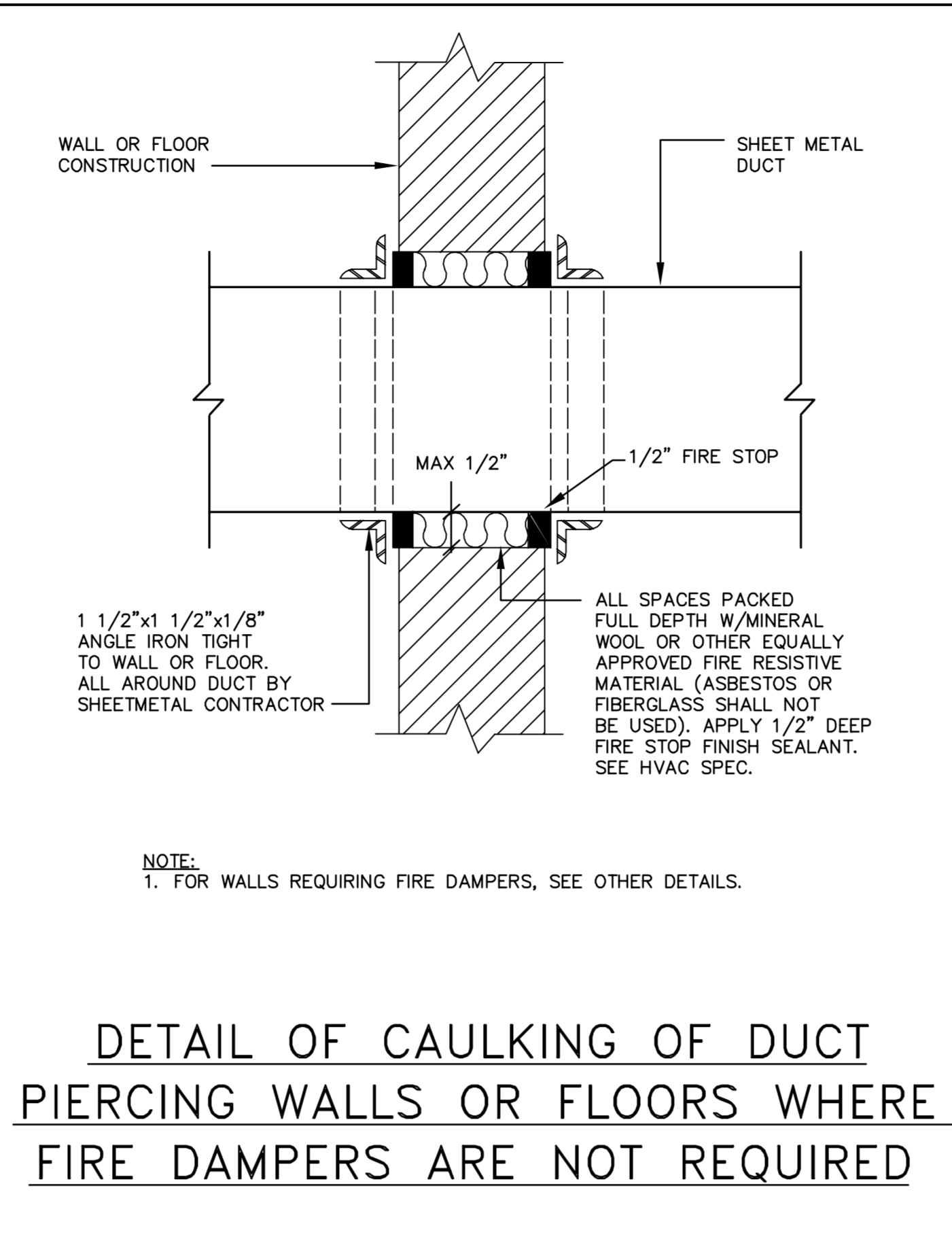
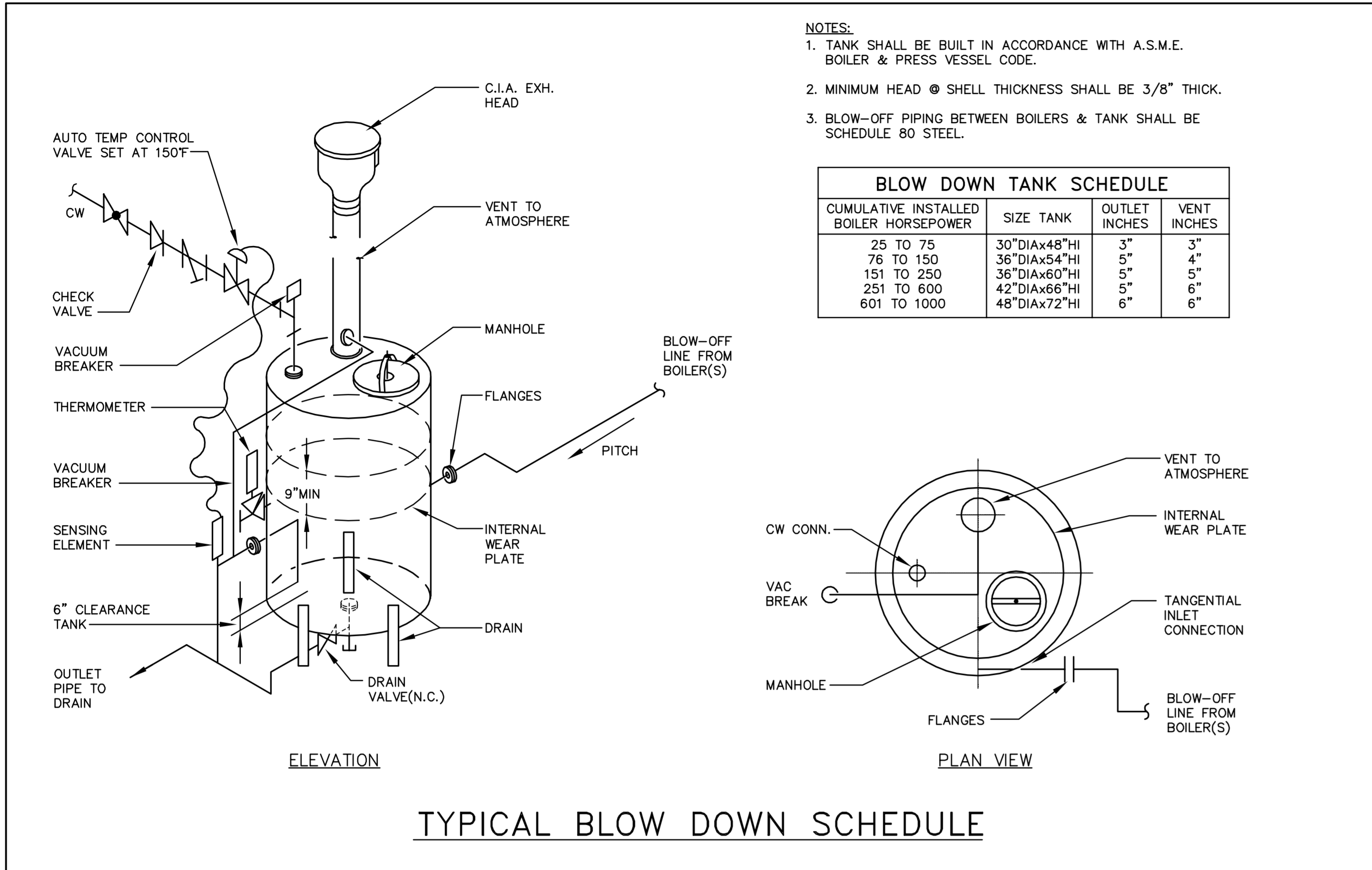


TABLE OF GUIDE SPACINGS										
NOMINAL PIPE SIZE	MAXIMUM DISTANCE		MAXIMUM DISTANCE BETWEEN INTERMEDIATE GUIDES (FT) FOR PRESSURES (PSIG) SHOWN BELOW							
(IN)	EXPANSION JOINT TO FIRST GUIDE	FIRST TO SECOND GUIDE	50	100	150	200	250	300	350	400
3	1'-0"	3'-6"	21	19	17	16	15	14	13	13
4	1'-4"	4'-8"	35	29	25	22	20	19	18	17
6	2'-0"	7'-0"	57	44	37	32	29	27	25	23
8	2'-8"	9'-4"	66	52	45	40	36	33	31	29
10	3'-4"	11'-8"	91	69	58	51	46	42	39	36
12	4'-0"	14'-0"	107	79	66	58	52	48	44	41
14	4'-8"	16'-4"	115	85	71	62	56	51	47	
16	5'-4"	18'-8"	127	94	78	68	61	56	52	
18	6'-0"	21'-0"	139	102	85	74	67	61	56	
20	6'-8"	23'-4"	151	110	91	80	71			
24	8'-0"	28'-0"	172	125	103	89	80			
30	10'-0"	35'-0"	200	144	118	103	92			

