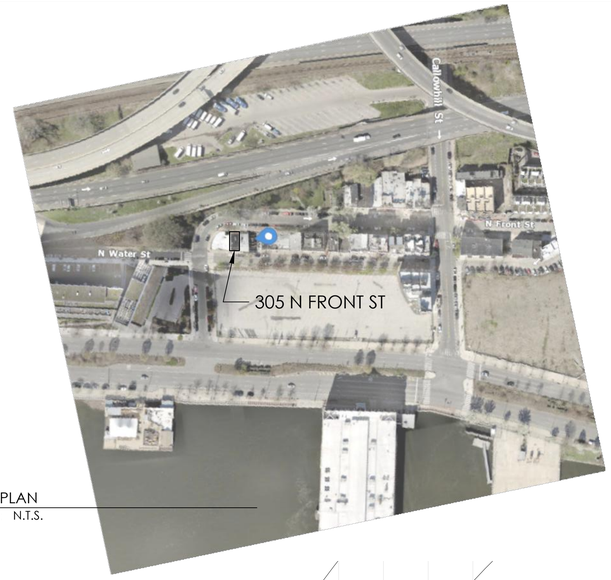
REVISED

ABBREVIATION

ABV	Above	FNV	Feminine Napkin Vendor	P	Page
AP	Access Panel	FBD	Fiberboard	PR	Pair
ACS	Acoustical	FGL	Fiberglass	PNL	Panel
ACT	Acoustical Ceiling Tile	FIN	Finish	PTD	Paper Towel Dispenser
AD	Area Drain	FFL	Finish Floor	PTR	Paper Towel Receptacle
ADD	Addendum	FFE	Finish Floor Elevation	PAR	Parallel
ADDL	Additional	FGD	Finish Grade	PBD	Particle Board
ADH	Adhesive	FF	Finish (ed) Face	PTN	Partition
ADJ	Adjacent	FA	Fire Alarm	PVMT	Pavement
ADJT	Adjustable	FEC	Fire Extinguisher Cabinet	PERF	Perforate (d)
AFF	Above Finish Floor	FRC	Fire-resistant Coating	PERI	Perimeter
AGG	Aggregate	FRT	Fire-retardant	PERP	Perpendicular
AC	Air Conditioning	FPF	Fireproof (ing)	PLAS	Plaster
ALT	Alternate	FXD	Fixed	PLAM	Plastic Laminate
ALUM	Aluminum	FLG	Flashing	PL	Plate
AB	Anchor Bolt	FLX	Flexible	PNT	Paint (ed)
ANOD	Anodized	FLR	Floor	PLYWD	Plywood
APPROX	Approximate	FD	Floor Drain	PT	Point
ARCH	Architect (ural)	FLUOR	Fluorescent	PSF	Pounds Per Square Foot
ASPH	Asphalt (ic)	FT	Foot (Feet)	PSI	Pounds Per Square Inch
AUTO	Automatic	FTG	Footing	PIP	Poured In Place
AVG	Average	FDN	Foundation	PFB	Prefabricated
		FR	Frame (d) (ing)	PFN	Prefinished
BBD	Base Board	FS	Full Size	PFM	Preformed
BP	Base Plate	FBO	Furnish By Others	PMF	Premolded Filler
BSMT	Basement	FOIC	Furnished By Owner, Installed By Contractor	PRT	Pressure Treated
BM	Beam			PROJ	Project
BEL	Below	FURN	Furnish (ed)	QT	Quarry Tile
BMK	Bench Mark	FUR	Furred (ing)	QTR	Quarter
BET	Between	FUT	Future		
BYD	Beyond			RAD	Radius
BIT	Bituminous	GA	Gage (Gauge)	REC	Recessed
BLK	Block	GAL	Gallon	RECT	Rectangular
BLKG	Blocking	GALV	Galvanize (d)	REF	Reference
BLS	Bluestone	GSM	Galvanized Sheet Metal	RP	Reference Point
BD	Board	GSTL	Galvanized Steel	RFL	Reflect (ed)
BS	Both Sides	GL	Glass	REFR	Refrigerator
BOT	Bottom	GFRG	Glass Fiber Reinforced Gyp.	REG	Reglet
BOC	Bottom Of Concrete	GLZ	Glaze (d) (ing)	REINF	Reinforcing (ment)
BOF	Bottom Of Footing	GBR	Grab Bar	RLF	Relief
BOS	Bottom Of Steel	GD	Grade (ing)	RMV	Remove (able)
BOW	Bottom Of Wall	GRN	Granite	REQ	Require (d)
BRCG	Bracing	GND	Ground	RES	Resilient
BRKT	Bracket	GWP	Grounded Waterproof Outlet	RTN	Return
BRK	Brick	GT	Grout	RA	Return Air
BC	Brick Course	GPDW	Gypsum Drywall	REV	Revise (d) (ion)
BRZ	Bronze	HNRL	Handrail	RH	Right Hand
BLDG	Building	HDW	Hardware	R	Riser
		HDWD	Hardwood	RD	Roof Drain
CAB	Cabinet	HDR	Header	RFG	Roofing
CPT	Carpet	HTR	Heater	RM	Room
CB	Catch Basin	HTG	Heating	RO	Rough Opening
CK	Caulk	HVAC	Heating, Ventilating & Air Conditioning	RND	Round
CLG	Ceiling			RBR	Rubber
CEM	Cement	HT	Height	RWC	Rain Water Collector
CTR	Center	HEX	Hexagonal		
CL	Center Line	HP	High Point	SFGL	Safety Glass
CT	Ceramic Tile	HM	Hollow Metal	SCHD	Schedule
CHBD	Chalkboard	HMDRF	Hollow Metal Door Frame	SCN	Screen
CHAM	Chamfer	HK	Hook	SNT	Sealant
C	Channel	HORIZ	Horizontal	SEC	Section
CO	Clean Out	HW	Hot Water	SSK	Service Sink
CLR	Clear (ance)	HWH	Hot Water Heater	SB	Setting Bed
CLO	Closet	HR	Hour	SHTH	Sheathing
CW	Cold Water	HYD	Hydrant	SHT	Sheet
COL	Column			SHL	Shelf (Shelving)
COMB	Combination	IN	Inch	SHRG	Shoring
COMP	Computer	INCL	Include (d) (ing)	SIM	Similar
COMPR	Compress (ed) (ion) (ible)	ID	Inside Diameter	SLV	Sleeve
CONC	Concrete	INSUL	Insulate (d) (ing)	SP	Soundproof(ing)
CMU	Concrete Masonry Unit	INT	Interior	S	South
COND	Condition (al)	INV	Invert	SPK	Speaker
CNDT	Conduit			SPL	Special
CONN	Connect (or) (ion)	JAN	Janitor	SPEC	Specification (s)
CONST	Construction	JT	Joint	SFP	Spray Fireproofing
CONT	Continuous	JTF	Joint Filler	SQ	Square
CONTR	Contract (or)			SF	Square Foot
CJT	Control Joint	KPL	Kick Plate	STAG	Staggered
COORD	Coordinate			SST	Stainless Steel
CPR	Copper	LBL	Label	STD	Standard
CORR	Corrugated	LAD	Ladder	STL	Steel
CNTR	Counter	LAM	Laminate (d)	STOR	Storage
CFL	Counterflashing	LAV	Lavatory	STRUCT	Structure (al)
CS	Countersunk	LCCPR	Lead Coated Copper	SUR	Surface
CRS	Course (s)	L	Left	SUSP	Suspended
CVR	Cover	LH	Left Hand	SW	Switch
CFT	Cubic Foot	LNG	Length (Long)	SYM	Symmetrical
CYD	Cubic Yard	LT	Light	SYN	Synthetic
CUS	Custom	LTG	Lighting	SYS	System
		LW	Lightweight		
DPR	Damper	LMS	Limestone	TKBD	Tackboard
DMPF	Dampproofing	LIN	Linoleum	TEL	Telephone
DL	Dead Load	LTL	Lintel	TEMP	Temperature
DEMO	Demolish (Demolition)	LL	Live Load	THER	Thermostat
DEPT	Department	LKG	Looking	THRSHLD	Threshold
DEPR	Depress (ed)	LVR	Louver	THK	Thick (ness)
DET/DTL	Detail	LP	Low Point	TLT	Toilet
DIA	Diameter			TPTN	Toilet Partition
DIFF	Diffuser	MACH	Machine	T&G	Tongue And Groove
DIM	Dimension	MH	Manhole	TO	Top Of
DISP	Dispenser	MFR	Manufacturer	TOC	Top Of Concrete
DIV	Division	MRB	Marble	TOF	Top Of Footing
DR	Door	MAS	Masonry	TOS	Top Of Steel
DBL	Double	MO	Masonry Opening	TOW	Top Of Wall
DWL	Dowel	MATL	Material	TD	Towel Dispenser
DN	Down	MAX	Maximum	TRANS	Transparent
DS	Down Spout	MECH	Mechanical	TR	Tread
D	Drain	MED	Medium	TYP	Typical
DWR	Drawer	MEMB	Membrane		
DWG	Drawing	MTL	Metal (lic)	UCT	Undercut
		MM	Millimeter	UL	Underwriter's Laboratory
EA	Each	MWK	Millwork	UNF	Unfinished
E	East	MIN	Minimum	UON	Unless Otherwise Noted
ELAS	Elastomeric	MIR	Mirror	URTH	Urethane
ELEC	Electric (al)	MISC	Miscellaneous	U/S	Underside
EP	Electrical Panel	MOD	Modular	UTIL	Utility
EWC	Electrical Water Cooler	MLDG	Molding		
ELEV	Elevation	MR	Mop Receptacle	VB	Vapor Barrier
EL	Elevator	MRT	Mortar	VNR	Veneer
EMER	Emergency	MT	Mount (ed)	VENT	Ventilating
ENC	Enclosure	MOV	Movable	VIF	Verify In Field
ENT	Entrance	MUL	Mullion	VERT	Vertical
EPX	Epoxy			VCB	Vinyl Cove Base
EQ	Equal	NAT	Natural	VCT	Vinyl Composite Tile
EQP	Equipment	NEO	Neoprene	VSB	Vinyl Straight Base
EST	Estimate	NOM	Nominal	VOL	Volume
EXC	Excavate (Excavation)	N	North		
EXH	Exhaust	NIC	Not in Contract	WSCT	Wainscot
EXG	Existing (Existent)	NTS	Not to Scale	WC	Water Closet
ED	Existing Dimension	NUM	Number	WR	Wter Repellent
EPS	Expanded Polystyrene	OA	Overall	WS	Water Stop
EB	Expansion Bolt	OC	On Center	WPF	Waterproof (ing)
EJT/EXP JT	Expansion Joint	ORD	Overflow Roof Drain	WT	Weight
EXP	Expose (d)	OPQ	Opaque	WWF	Welded Wire Fabric
EXT	Exterior	OPNG	Opening	W	West
EXTR	Extrusion	OPP	Opposite	WF	Wide Flange
FAB	Fabricate (Fabricator)	OPPF	Opposite Face	WDW	Window
FB	Face Brick	OPPH	Opposite Hand	WM	Wire Mesh
FO	Face of	OPPS	Opposite Side	W/	With
FOB	Face of Building	OZ	Ounce	W/O	Without
FOC	Face of Concrete	O TO O	Out to Out	WD	Wood
FOM	Face of Masonry	OD	Outside Diameter	WB	Wood Base
FOS	Face of Stud	OVHD	Overhead	WP	Working Point
FOW	Face of Wall				
FCU	Fan Coil Unit			YD	Yard
FAS	Fasten (er)				
FND	Feminine Napkin Disposal				



2 / A-000 PLOT PLAN
SCALE: N.T.S.

NORTH

FRONT ST S.F.D.

305 N. FRONT ST PHILADELPHIA, PA 19106

TABLE OF CONTENTS

PROJECT SCOPE

RENOVATION TO AN EXISTING SINGLE FAMILY DWELLING. EXISTING FRONT AND REAR FACADE TO BE REMOVED AND REBUILT. NEW REAR BALCONIES AT FIRST - FOURTH FLOORS AND NEW ROOF DECK ACCESSED VIA PILOT HOUSE. EXISTING REAR GARAGE ACCESSED VIA WATER ST TO REMAIN.

ZONING CRITERIA

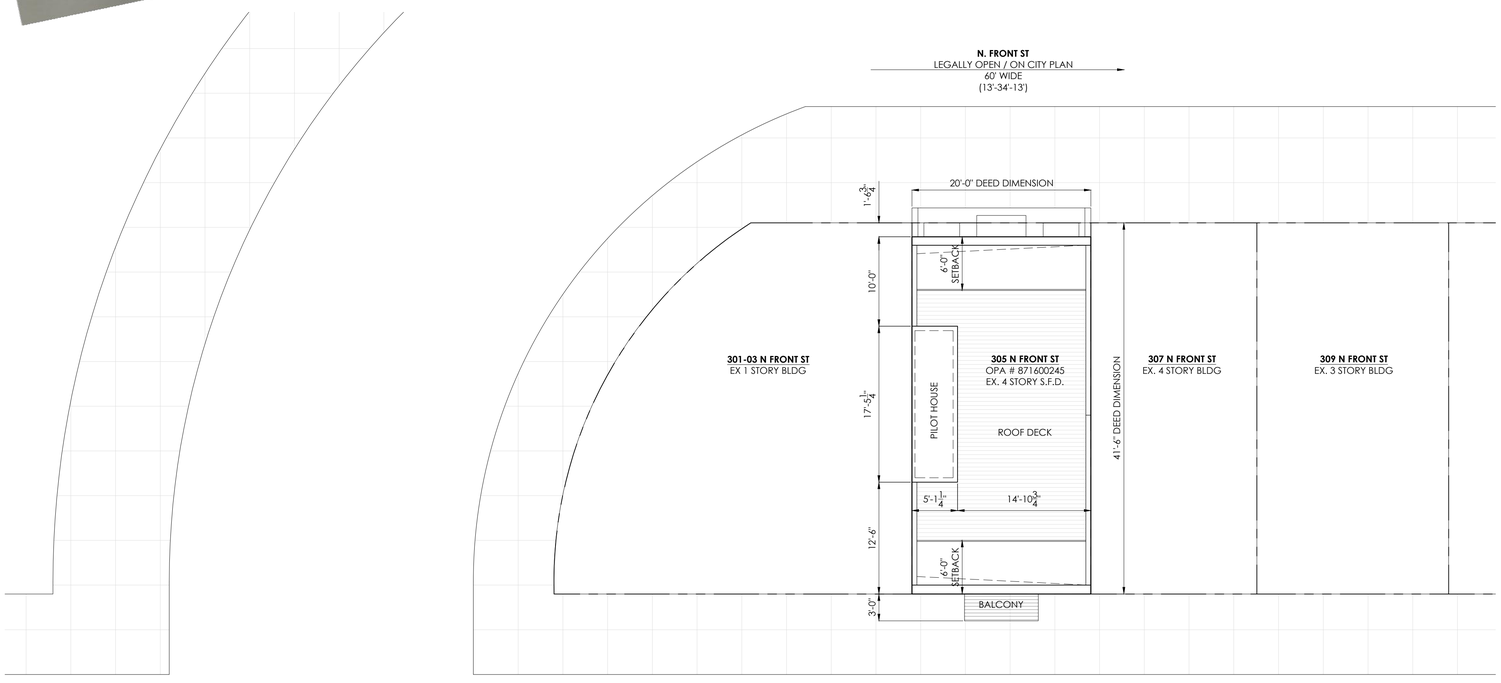
ZONING BASE DISTRICT CLASSIFICATION: RM-1

DIMENSIONAL STANDARDS (TABLE 14-701-2)

		EXISTING	*PROPOSED*
MIN LOT WIDTH	16'	20'	NO CHANGE
MIN STREET FRONTAGE	N/A	N/A	NO CHANGE
MIN DISTRICT AREA	N/A	N/A	NO CHANGE
MIN LOT AREA	1,440 SF [1]	830 SF	NO CHANGE
MAX OCCUPIED AREA	INTERMEDIATE: 75% [2]	96.3	NO CHANGE
MIN FRONT SETBACK	[5][6]	1-6 3/4"	NO CHANGE
MIN SIDE YARD	5'	NOT USED	NO CHANGE
MIN REAR YARD DEPTH	9' [9]	0'	NO CHANGE
MIN REAR YARD AREA	144 SF [9]	0 SF	NO CHANGE
MAX BUILDING HEIGHT	38' [5]	385%	NO CHANGE
MAX FLOOR AREA	NO LIMIT	385%	NO CHANGE

ZONING OVERLAY DISTRICTS

/CTR CENTER CITY OVERLAY DISTRICT - VINE STREET AREA
/CDO CENTRAL DELAWARE RIVERFRONT OVERLAY DISTRICT
/CTR CENTER CITY OVERLAY DISTRICT - CENTER CITY RESIDENTIAL DISTRICT CONTROL AREA
NON-ACCESSORY SIGNS - REGULATIONS APPLICABLE TO THE I-95 ACQUISITION CORRIDOR
/CTR CENTER CITY OVERLAY DISTRICT - CENTER CITY COMMERCIAL DISTRICT CONTROL AREA



1 / A-000 PROPOSED SITE PLAN
SCALE: 1/8"=1'-0"

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FOR PHC REVIEW

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COMMONWEALTH OF PENNSYLVANIA
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	SET TO PHC 01.11.22
	SET TO PHC 02.07.22
	SET TO PHC 03.04.22
Revisions+	
Date	03.04.22
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Title+	

COVERSHEET & SITE PLAN

A-000

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305 N FRONT

BRICK CORNICE

GLASS BLOCK INFILL

STAR BOLT REINFORCING AT
2ND, 3RD, 4TH, & ROOF JOISTS

REAR ELEVATION
(1953)

EX BRICK CORNICE REMOVED

STAR BOLT REINFORCING
AT 2ND, 3RD, 4TH, ROOF JOISTS

GLASS BLOCK & BRICK
INFILL AT EXISTING
MASONRY OPENINGS

REAR ELEVATION
(2021)

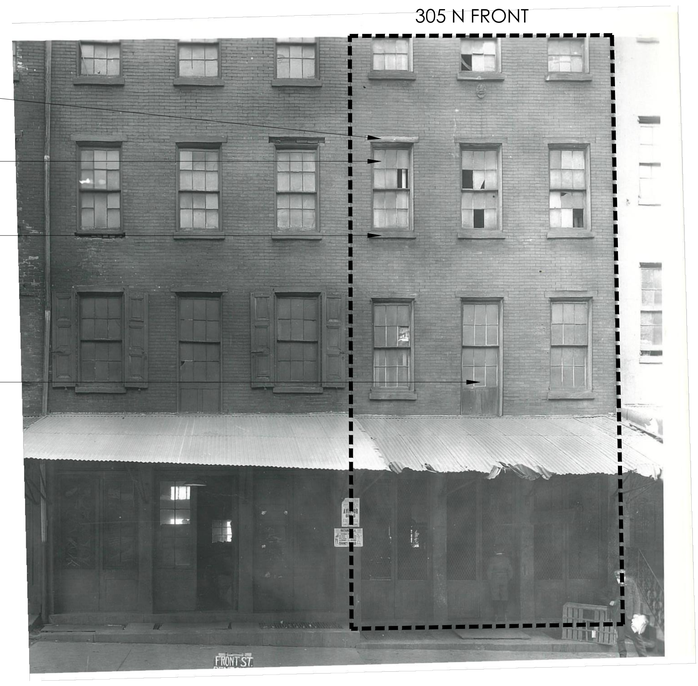
305 N FRONT

STONE LINTEL
FLUSH W/ BRICK

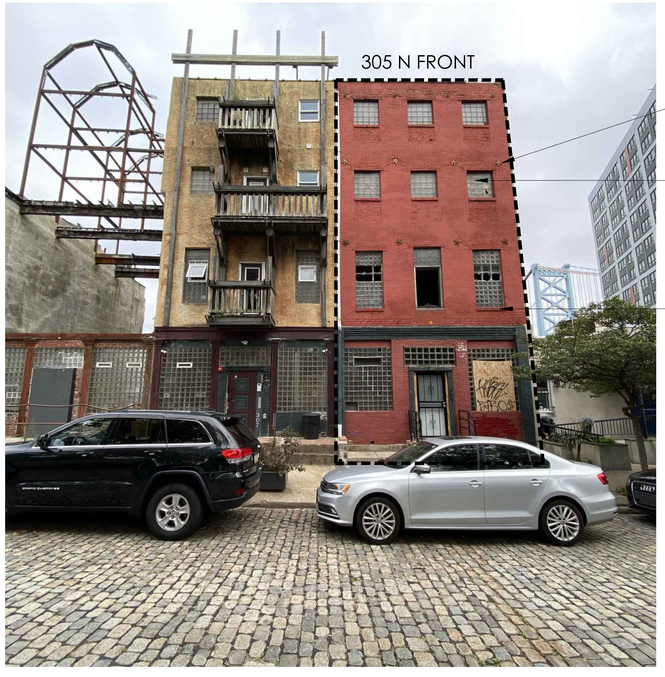
6 OVER 6 DOUBLE
HUNG WINDOWS

STONE SILL
PROUD OF BRICK

SILL FLUSH W/ FLOOR



FRONT ELEVATION
(1919)



STAR BOLT REINFORCING AT
FLOORS 3RD, 4TH, ROOF JOISTS

GLASS BLOCK & BRICK
INFILL AT EXISTING
MASONRY OPENINGS

EXISTING SILLS AND
LINTELS REMOVED

FRONT ELEVATION
(2021)

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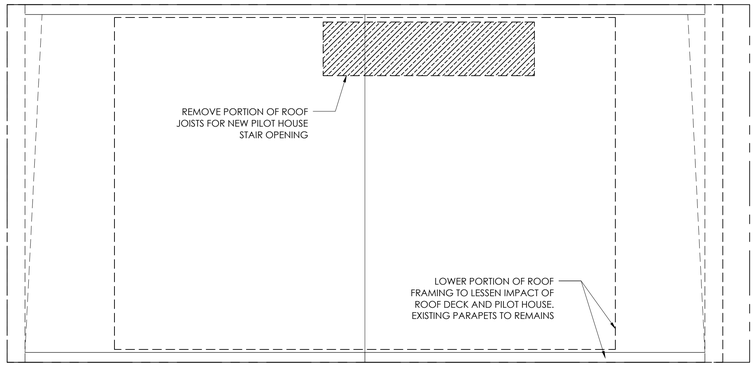
Title+	

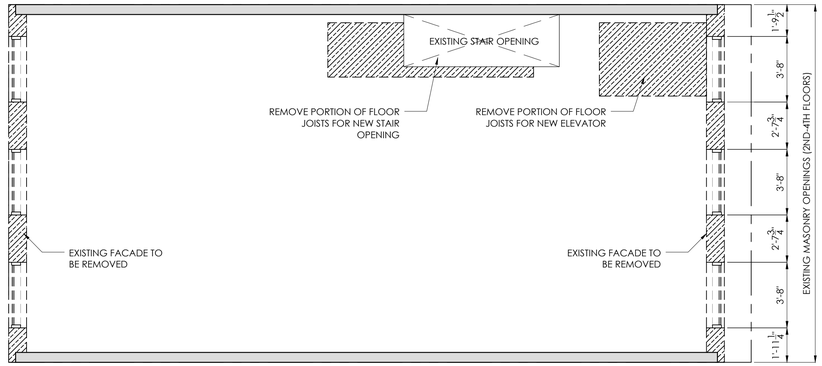
SITE PHOTOS

A-001

REVISED



5 A-100 EXISTING ROOF PLAN
SCALE: 1/4"=1'-0"



2 A-100 EXISTING SECOND FLOOR PLAN
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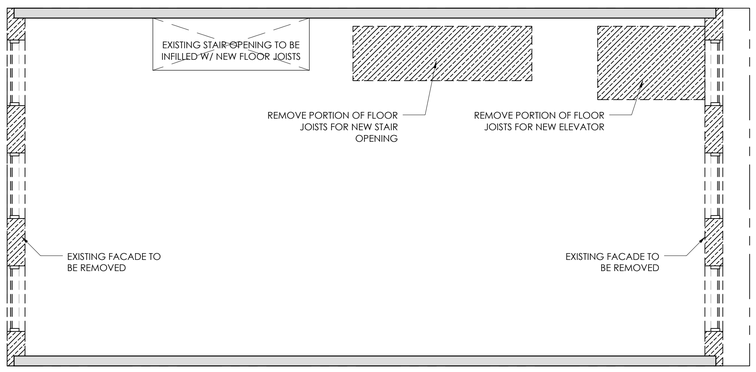

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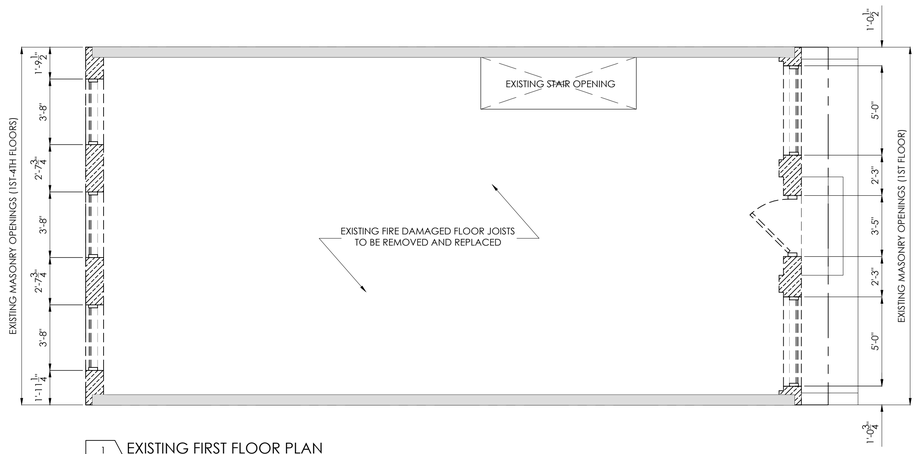

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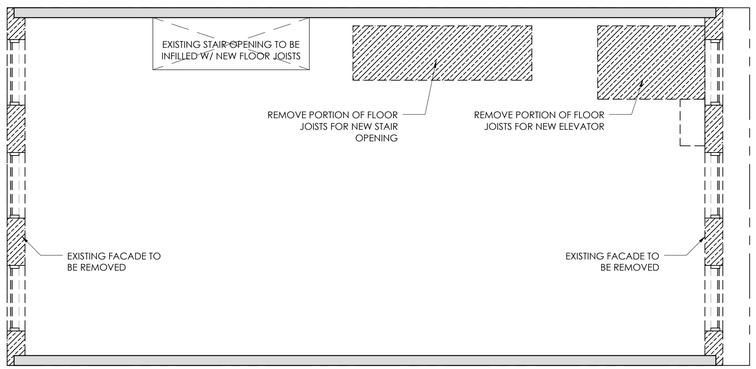

3 A-100 EXISTING THIRD FLOOR PLAN
SCALE: 1/4"=1'-0"

B A-100 EXISTING BASEMENT PLAN
SCALE: 1/4"=1'-0"

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DEMOLITION PLANS

A-100

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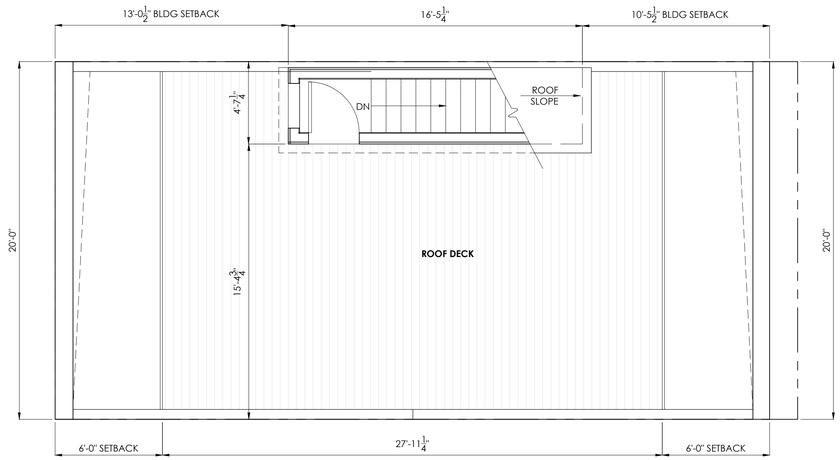

5 A-200 PROPOSED ROOF PLAN
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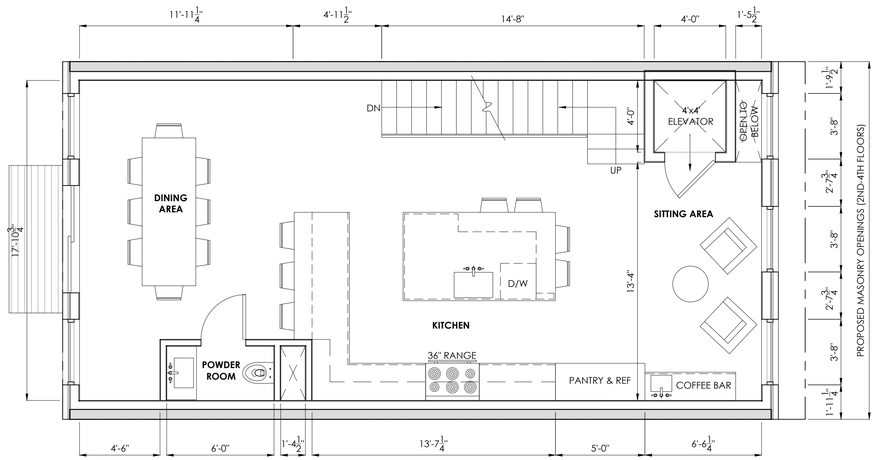

2 A-200 PROPOSED SECOND FLOOR PLAN
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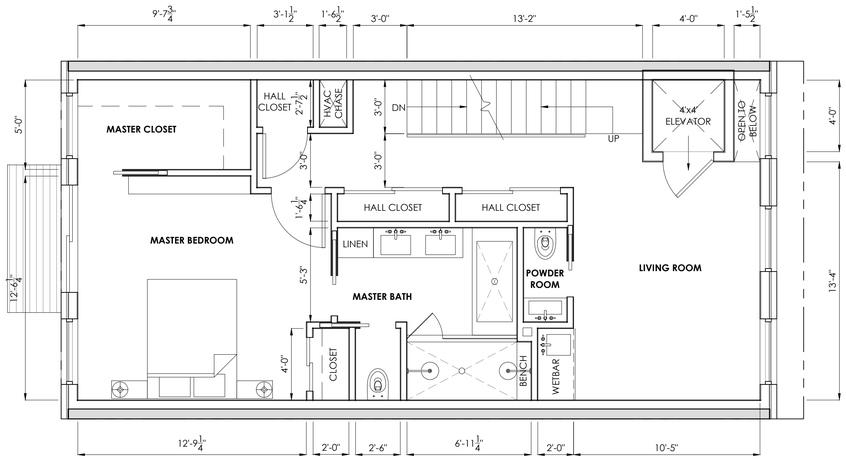

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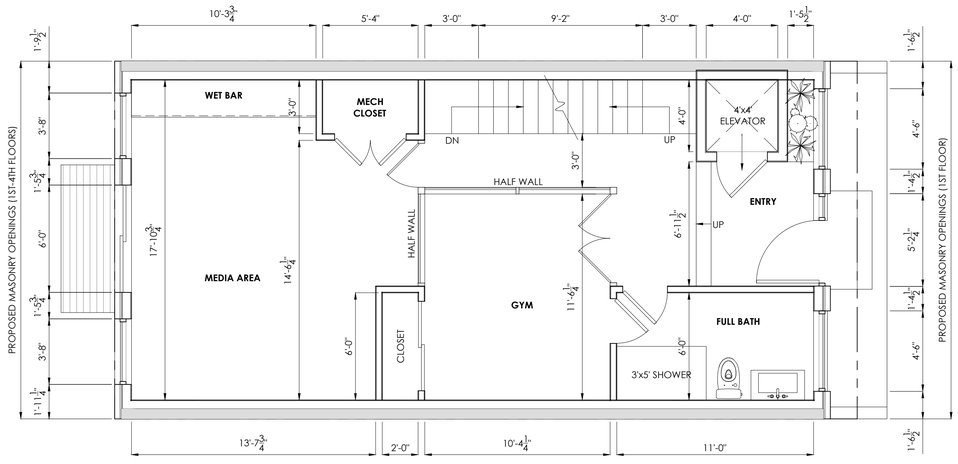

1 A-200 PROPOSED FIRST FLOOR PLAN
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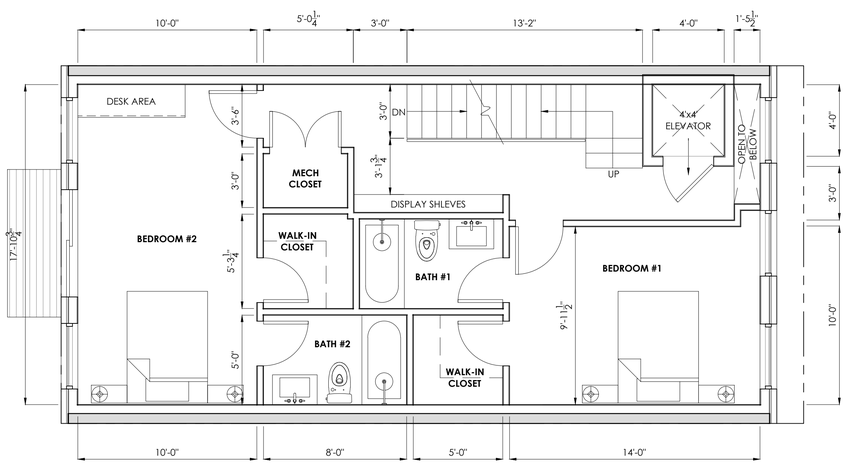

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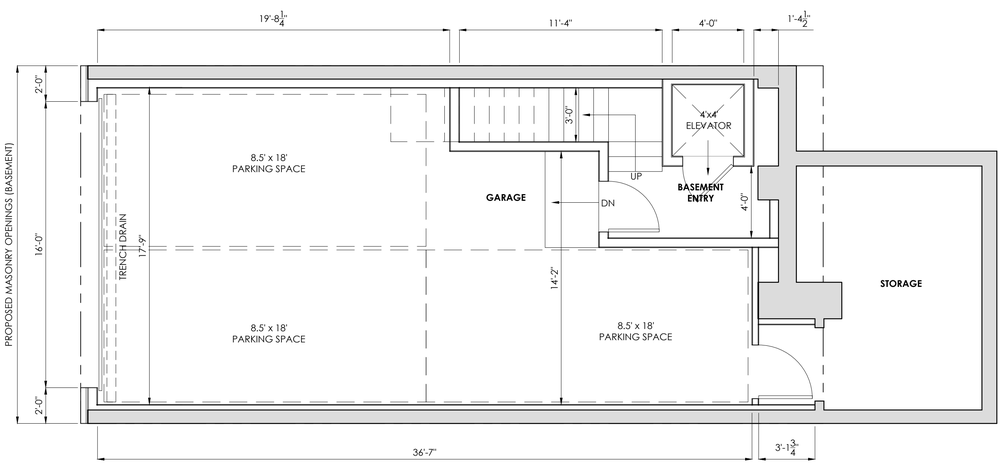

B A-200 PROPOSED BASEMENT PLAN
SCALE: 1/4"=1'-0"

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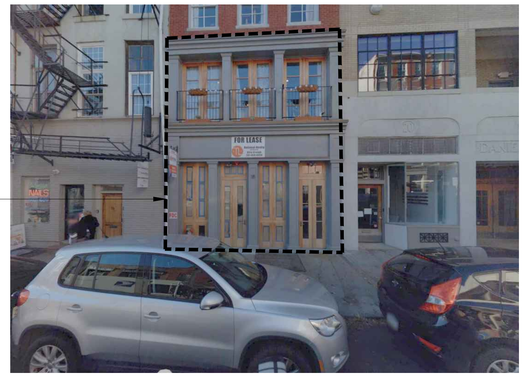
Title+

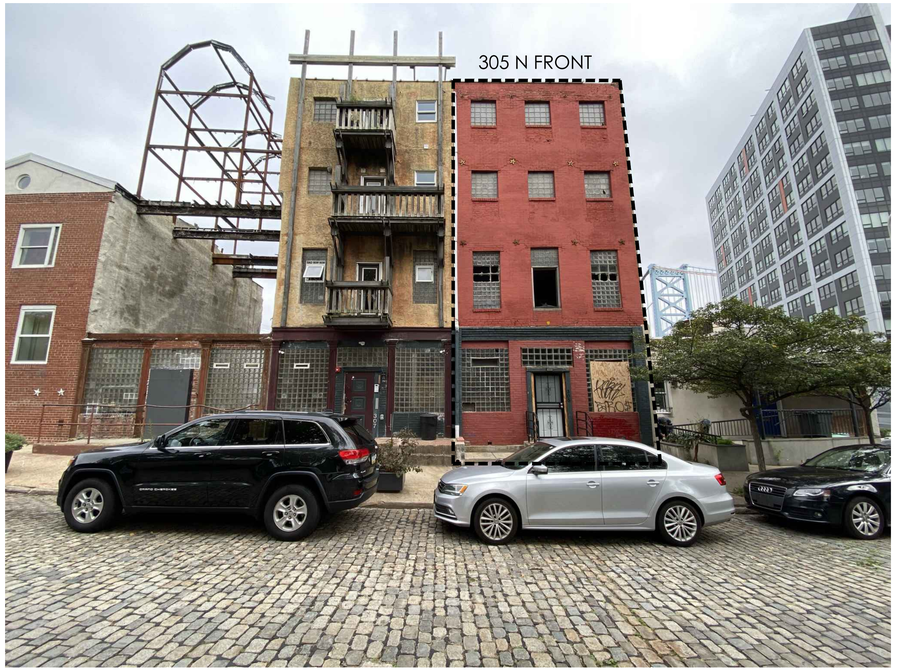
PROPOSED FLOOR PLANS

A-200

REVISED

CAST STONE MATERIAL ALTERNATE :
18 N 3RD STREET - 1ST & 2ND FLOOR
AS REVIEWED AND APPROVED BY PHC





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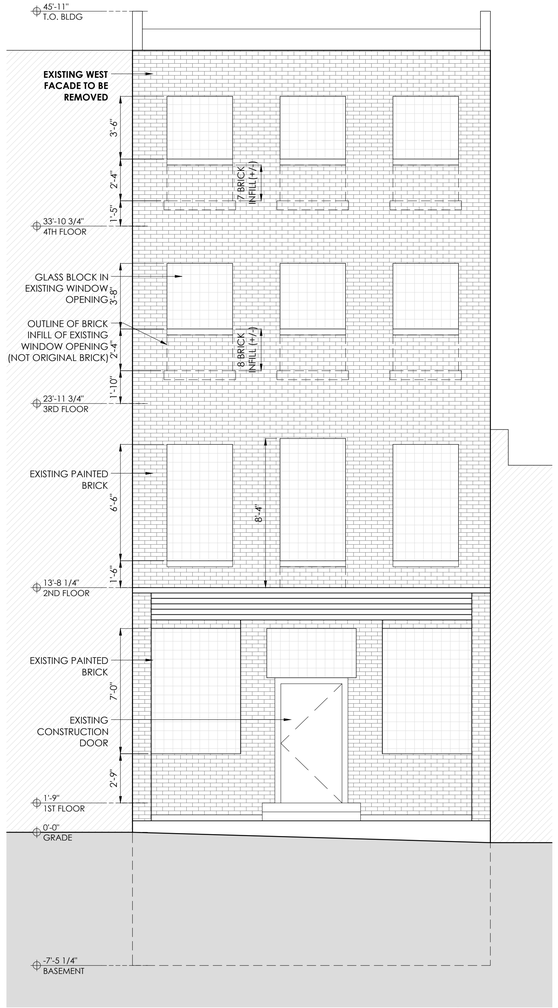

1 A-300 EXISTING FRONT ELEVATION (WEST)
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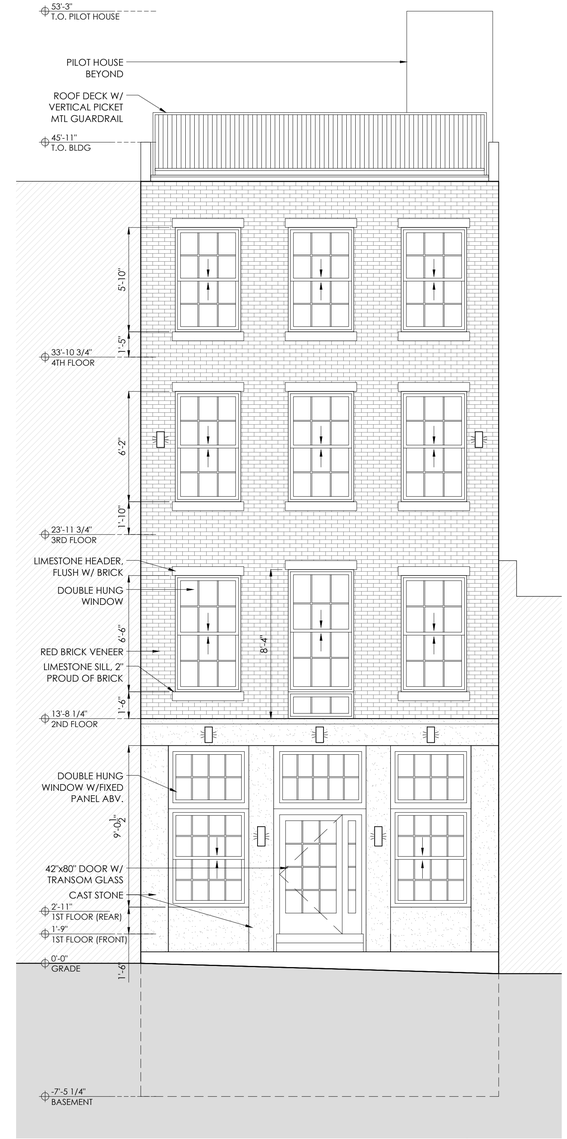

2 A-300 PROPOSED FRONT ELEVATION (WEST)
SCALE: 1/4"=1'-0"

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Structural Engineer+
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101 W Eagle Rd, # 189
Havertown, PA 19083
Ph: 215.645.4437

FOR PHC REVIEW

REGISTERED ARCHITECT
COMMONWEALTH OF PENNSYLVANIA
BENJAMIN ESTEPANI, No. 608086

SD PLANS TO OWNER 10.16.21
REVISED SD PLANS TO OWNER 10.28.21
EXTERIOR ELEV TO OWNER 11.04.21
REVISED PLANS & ELEVS TO OWNER 11.09.21
PROGRESS SET TO OWNER 11.30.21
REVISED PLANS + FRONT ELEV TO OWNER 01.03.22
SET TO PHC 01.11.22
SET TO PHC 02.07.22
SET TO PHC 03.04.22

Revisions+ 03.04.22
Date 03.04.22
Drawn by BE

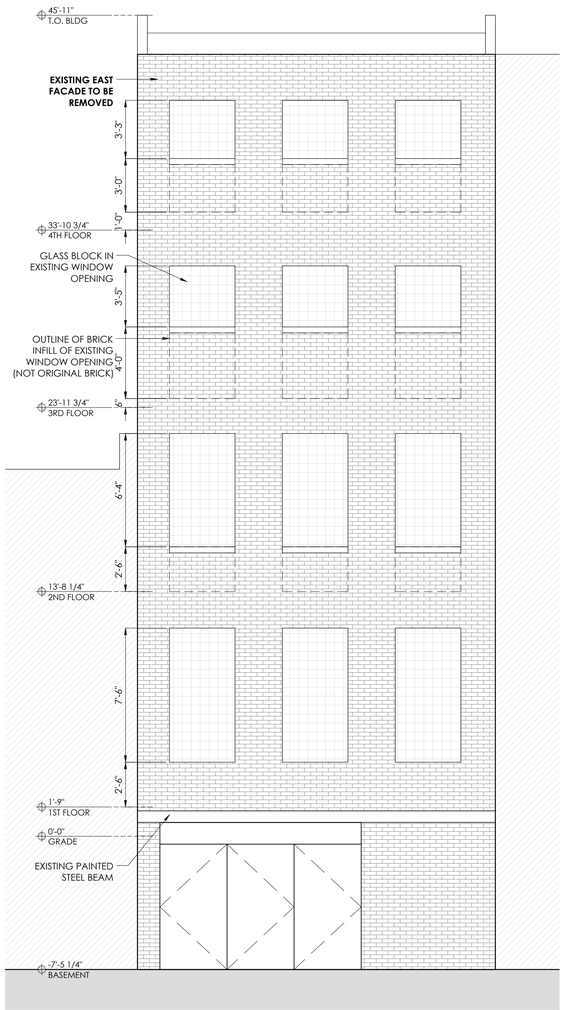
Title+

WEST EXTERIOR ELEVATION

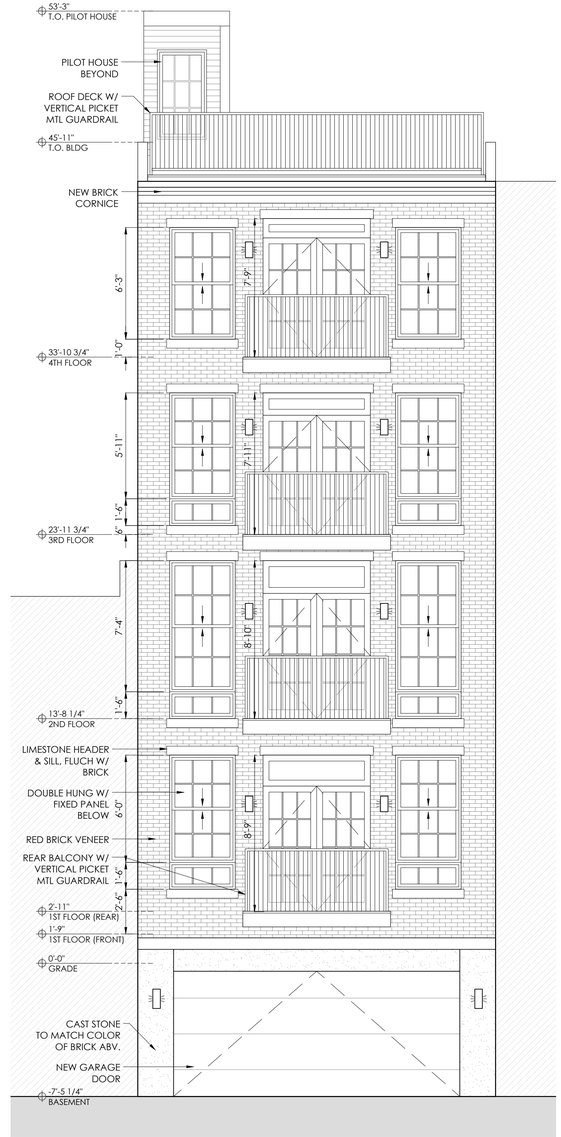
A-300

REVISED

3 / A-300 EXISTING REAR ELEVATION PHOTO (EAST)
SCALE: 1/4"=1'-0"



1 / A-301 EXISTING REAR ELEVATION (EAST)
SCALE: 1/4"=1'-0"



2 / A-301 PROPOSED REAR ELEVATION (EAST)
SCALE: 1/4"=1'-0"

PACE Architecture+Design
1221 S Warnock St
Philadelphia, PA 19147
Ph: 484.243.0718
www.pace-ad.com

Project+
Front St Renovation
305 N Front St
Philadelphia, PA 19106

Structural Engineer+
Leake Engineering LLC
101 W Eagle Rd, # 189
Havertown, PA 19083
Ph: 215.645.4437

FOR PHC REVIEW

REGISTERED ARCHITECT COMMONWEALTH OF PENNSYLVANIA BENJAMIN ESTEPANI, No. 608086

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REVISED SD PLANS TO OWNER 10.28.21
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SET TO PHC 03.04.22

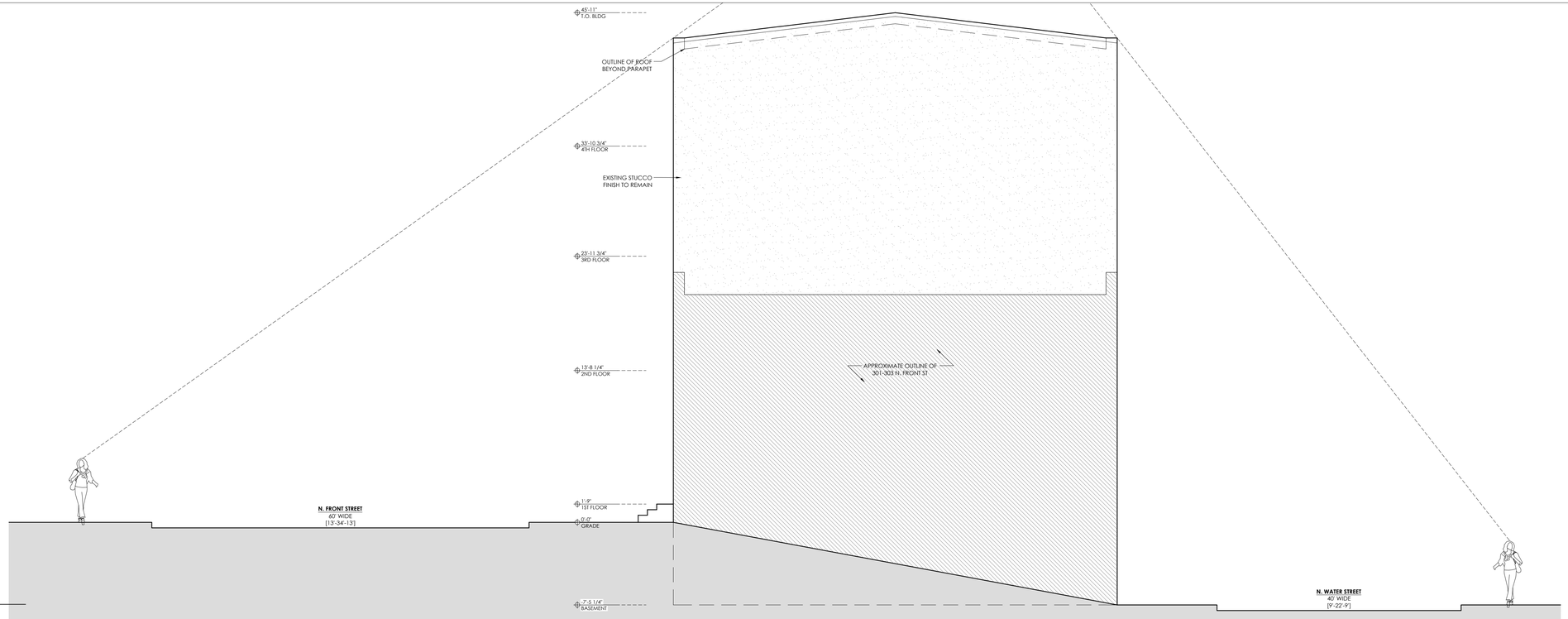
Revisions+
Date 03.04.22
Drawn by BE

Title+

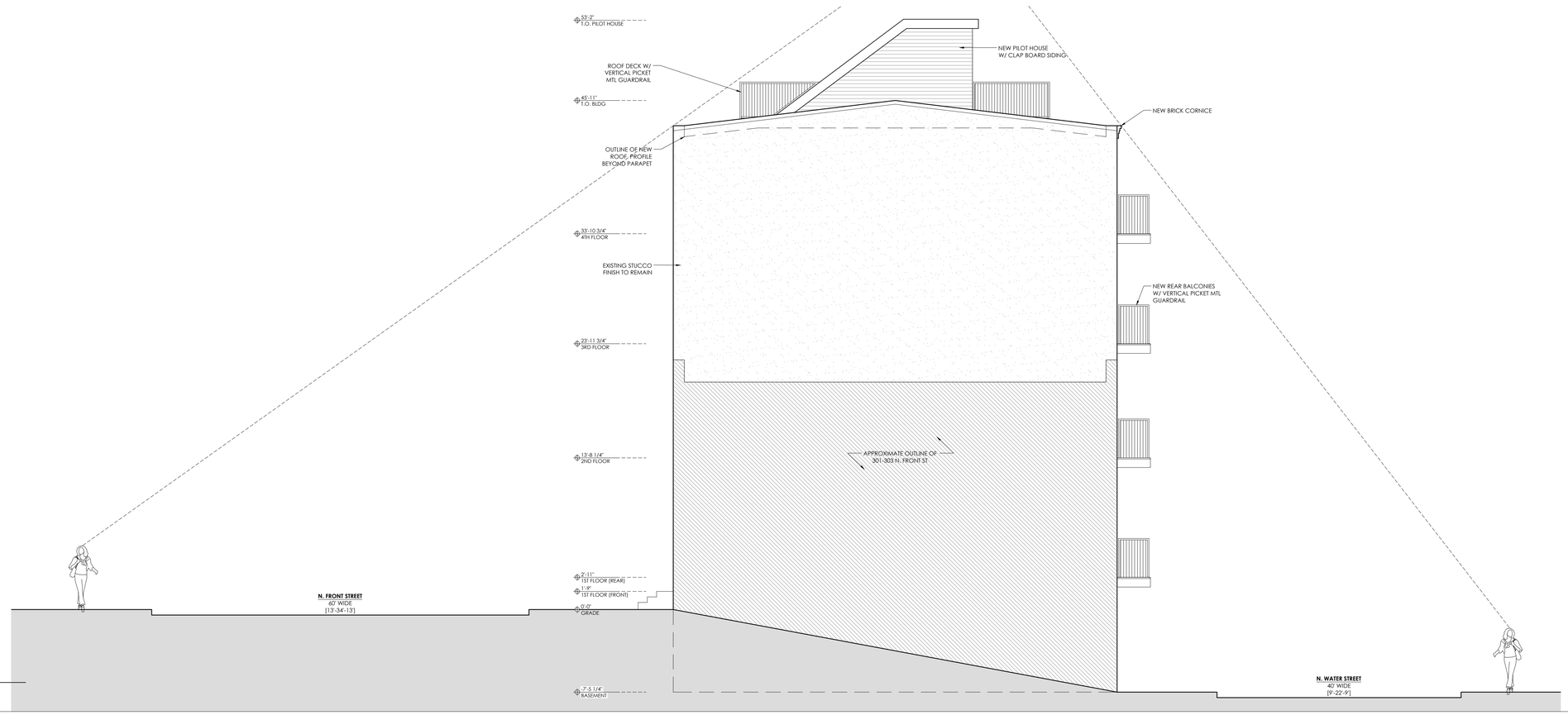
EAST EXTERIOR ELEVATION

A-301

REVISED



1 / A-302 EXISTING SIDE ELEVATION (SOUTH)
SCALE: 3/16"=1'-0"



2 / A-302 PRPOSED SIDE ELEVATION (SOUTH)
SCALE: 3/16"=1'-0"

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Philadelphia, PA 19147
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Structural Engineer+
Leake Engineering LLC
101 W Eagle Rd, # 189
Havertown, PA 19083
Ph: 215.645.4437

FOR PHC REVIEW

REGISTERED ARCHITECT
COMMONWEALTH OF PENNSYLVANIA
BENJAMIN ESTEPAN, AR 420088

SD PLANS TO OWNER 10.16.21
REVISED SD PLANS TO OWNER 10.28.21
EXTERIOR ELEV TO OWNER 11.04.21
REVISED PLANS & ELEVS TO OWNER 11.09.21
PROGRESS SET TO OWNER 11.30.21
REVISED PLANS + FRONT ELEV TO OWNER 01.03.22
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SET TO PHC 03.04.22

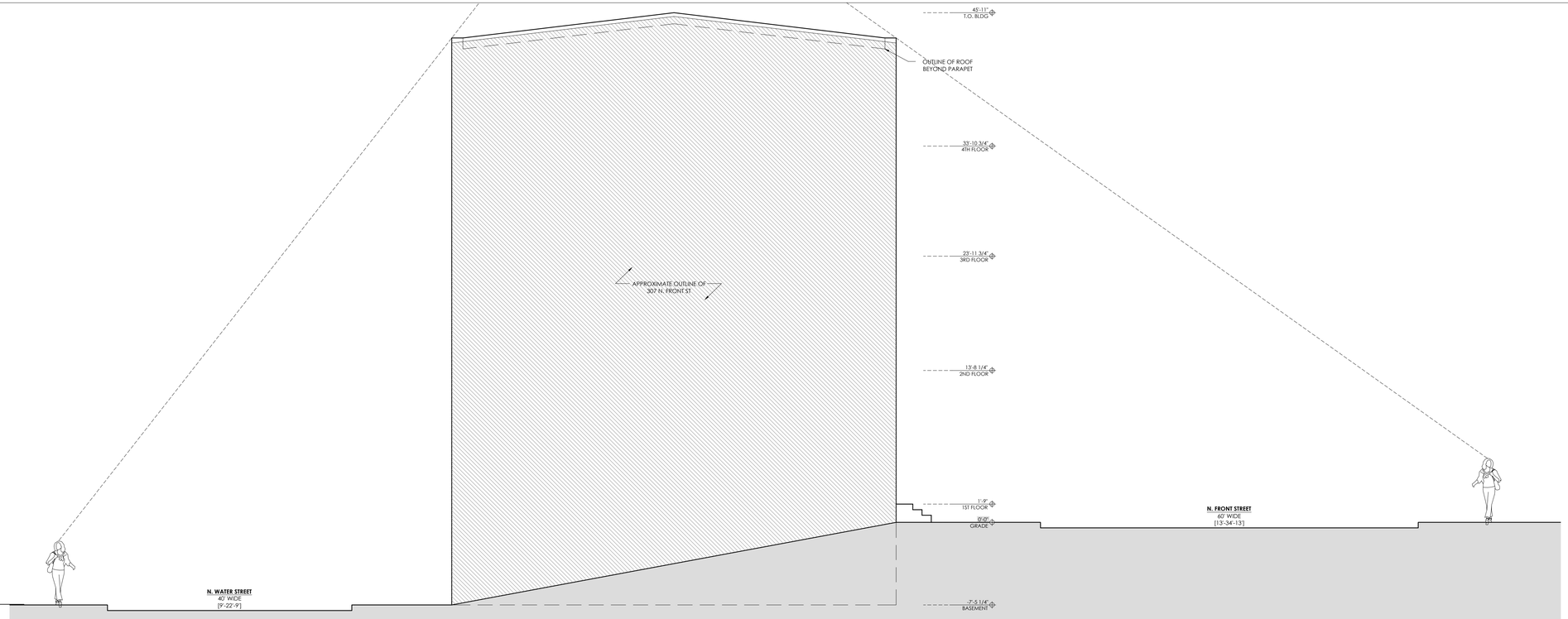
Revisions+
Date 03.04.22
Drawn by BE

Title+

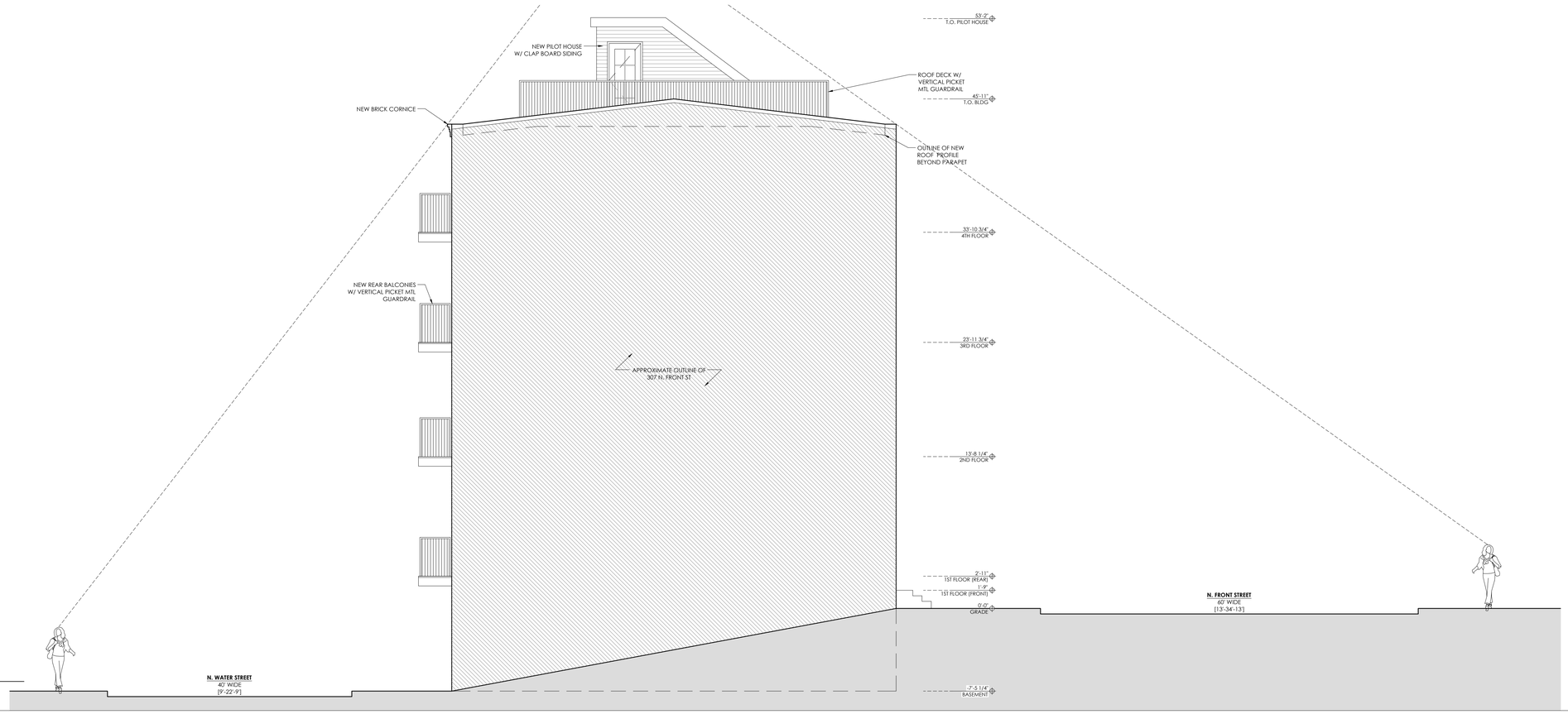
SOUTH EXTERIOR ELEVATION

A-302

REVISED



1 / A-303 EXISTING SIDE ELEVATION (NORTH)
SCALE: 3/16"=1'-0"



2 / A-303 PRPOSED SIDE ELEVATION (NORTH)
SCALE: 3/16"=1'-0"

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Philadelphia, PA 19106

Structural Engineer+
Leake Engineering LLC
101 W Eagle Rd, # 189
Havertown, PA 19083
Ph: 215.645.4437

FOR PHC REVIEW

REGISTERED ARCHITECT
COMMONWEALTH OF PENNSYLVANIA
BENJAMIN ESTEPAN, JR. AR 420108

	SD PLANS TO OWNER 10.16.21
	REVISED SD PLANS TO OWNER 10.28.21
	EXTERIOR ELEV TO OWNER 11.04.21
	REVISED PLANS & ELEVS TO OWNER 11.09.21
	PROGRESS SET TO OWNER 11.30.21
	REVISED PLANS + FRONT ELEV TO OWNER 01.03.22
	SET TO PHC 01.11.22
	SET TO PHC 02.07.22
Revisions+	SET TO PHC 03.04.22
Date	03.04.22
Drawn by	BE

Title+

NORTH EXTERIOR ELEVATION

A-303

REVISED

LEAKE ENGINEERING, LLC

Leake Engineering LLC
101 W Eagle Rd #189
Havertown, PA 19083
484 380 5419

Project Address: 305 N Front St. Philadelphia, PA 19106 Date: 02/01/2022

Scope of Work (SOW): Analysis of the front and rear walls to determine the feasibility of restoring the walls.

GOVERNING CODES:
1. International Building Code and Residential Code 2018 (IBC/IRC 2018)
2. AISC 14th Edition, Manual of Steel Construction
3. ACI 318-08, Building Code Requirements for Structural Concrete
4. ASCE/SEI 7-05, Minimum Design Loads for Buildings & Other Structures
5. AWC SDPWS-08, National Design Specifications for Wood Construction
6. ACI 530-08, Building Code Requirements for Masonry Structures

To Whom It May Concern,

This document is to discuss the feasibility of restoring the existing front and rear walls for 305 n Front St, Philadelphia, PA.

Background. The building at 305 N Front St is a four story double wythe brick building. The foundation for the building is stacked stone and the interior framing is wood. The side walls for the structure are the load bearing walls and the front and rear walls bear the load of the brick above.

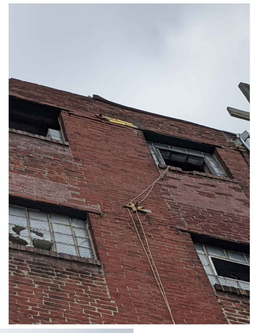
Foundation Deflection. The foundation for the front and rear of the building are deflecting. This deflection is most commonly the result of voids created around and under the foundation walls. These voids are created by water infiltration as the result of broken or cracked underground pipes that either sleeve through or run adjacent to the foundation walls. These voids affect the lateral stability of the foundation walls allowing them to deflect.

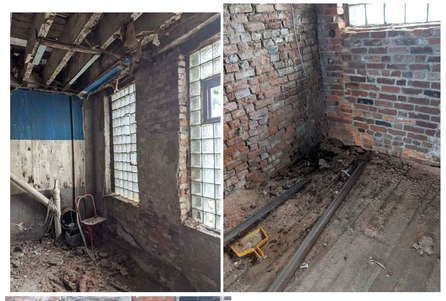
Double Wythe Construction. The brick walls for the front and rear are double wythe brick. As a result of the deflection in the foundation walls the layers of brick are coming apart and water is beginning to infiltrate between the bricks. During the winter months the water between the bricks will freeze and expand, pushing the bricks further from each other. This ultimately results in the appearance of a bowing wall.

Previous Reinforcement. There was a previous reinforcement completed on the deflecting brick walls. This reinforcement consisted of steel plates on the front and back of the building between the floors. This reinforcement is typically referred to as star bolts and is tied back into the wood framing on the interior of the building. Since the star bolts were installed, the star bolts are now “punching” through the brick wall. This punching is evidence that the wall is still moving despite the previous reinforcement.

Adjacent Building. The front and rear facade for the adjacent building is also deflecting. This building was reinforced with wooden 6”x6” posts running vertically and anchored into the building’s interior framing between the floors. The 6”x6” posts are deteriorating and will eventually fail. Because the brick walls are connected a failure of those posts may result in a failure of the wall at 305 N Front St.

Conclusion. Given the evidence gathered onsite it is recommended that the brick walls be demolished and rebuilt.





We reserve the right to amend these conclusions if additional information becomes available. This conclusion is based on data gathered by a field inspection and represents our opinion based on a reasonable degree of engineering certainty with the evidence gathered. Any site plans or details provided with this report are not meant to be used as construction documents. If construction documents can be provided for an additional fee. If you have any questions please contact Alex Bruno at 484 380 5419 or alex.bruno@leakeengineering.com.

Respectfully,

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
ALEX BRUNO
ENGINEER
PE084474

Alex Bruno

2/1/2022

Alex Bruno, P.E.

PACE Architecture+Design
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FOR PHC REVIEW

COMMONWEALTH OF PENNSYLVANIA
REGISTERED ARCHITECT
BENJAMIN ESTEPANI, RA 450088

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	SET TO PHC 03.04.22
Revisions+	
Date	03.04.22
Drawn by	BE
Title+	

STRUCTURAL REPORT

S-100

LEAKE ENGINEERING, LLC

Leake Engineering LLC
101 W Eagle Rd #189
Havertown, PA 19083
484 380 5419

Project Address: 305 N Front St. Philadelphia, PA 19106 Date: 02/01/2022

Scope of Work (SOW): Analysis of the front and rear walls to determine the feasibility of restoring the walls.

GOVERNING CODES:
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5. AWC SDPWS-08, National Design Specifications for Wood Construction
6. ACI 530-08, Building Code Requirements for Masonry Structures

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Conclusion. Given the evidence gathered onsite it is recommended that the brick walls be demolished and rebuilt.

We reserve the right to amend these conclusions if additional information becomes available. This conclusion is based on data gathered by a field inspection and represents our opinion based on a reasonable degree of engineering certainty with the evidence gathered. Any site plans or details provided with this report are not meant to be used as construction documents. If construction documents can be provided for an additional fee. If you have any questions please contact Alex Bruno at 484 380 5419 or alex.bruno@leakeengineering.com.

Respectfully,

2/1/2022

Alex Bruno, P.E.