1807 VINE CINCINNATI, OHIO, 45202

FINDLAY FLATS RENOVATION

MEP ENGINEER

ENGINEERED BUILDING SYSTEMS, INC. 515 MONMOUTH STREET, SUITE 201 NEWPORT, KY 41071

CIVIL ENGINEER

CLIENT/DEVELOPER

STRUCTURAL ENGINEER

ADVANTAGE GROUP

1527 MADISON ROAD, FL 2

CINCINNATI, OH 45206

(513) 396-8900

SHEET#

GENERAL DRAWINGS

CIVIL/LANDSCAPE DRAWINGS

C2.00 PROPOSED SITE PLAN

ARCHITECTURAL DRAWINGS

ADI.00 BASEMENT PLAN

ADI.01 FIRST FLOOR PLAN

ADI.03 THIRD FLOOR PLAN

ADI.04 ATTIC PLAN

ADI.05 ROOF PLAN

AD2.00 EAST ELEVATION

AD2.01 | SOUTH ELEVATION

AD2.03 NORTH ELEVATION

AD2.02 WEST ELEVATION

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AI.II FIRST FLOOR PLAN

A1.12 SECOND FLOOR PLAN

A1.13 THIRD FLOOR PLAN

A1.14 ATTIC PLAN

A1.15 ROOF PLAN

A1.24 ATTIC RCP

A1.20 BASEMENT RCP

A1.21 FIRST FLOOR RCP

A1.22 SECOND FLOOR RCP

A1.23 THIRD FLOOR RCP

A2.10 EAST ELEVATION

A2.11 | SOUTH ELEVATION

A2.12 WEST ELEVATION

A2.13 NORTH ELEVATION

A4.00 FINISH SCHEDULE

A4.10 INT ELEV

A4.20 INT ELEV

A5.00 DETAILS

A6.02 DETAILS

A9.01

A9.02

A9.03

A6.00 ASSEMBLIES

A6.01 ASSEMBLIES

A6.10 DOOR SCHEDULE

A6.20 WINDOW AI BI

EGC SPECS

EGC SPECS

EGC SPECS

STRUCTURAL DRAWINGS

S001 STRUCTURAL NOTES

SIIO STRUCTURAL PLANS

A9.04 EGC SPECS

A6.11 DOOR TYPES & DETAILS

A6.12 STOREFRONT TYPES & DETAILS

COLORED ELEVATION

COLORED ELEVATION

ADI.02 SECOND FLOOR PLAN

C3.00 PROPOSED GRADING PLAN

A0.01 EGRESS DIAGRAMS & CODE SUMMARY

CI.00 SITE SURVEY & EXG. CONDITIONS

DRAWING INDEX

SHEET TITLE

(859) 261-0585

SHEET#

BAYER BECKER 1404 RACE STREET, SUITE 204 CINCINNATI, OH 45202 (513) 336-6600

S120 STRUCTURAL PLANS

S130 STRUCTURAL PLANS

S200 STRUCTURAL ELEVATIONS

\$201 STRUCTURAL ELEVATIONS

S310 STRUCTURAL DETAILS

S311 STRUCTURAL DETAILS

S320 STRUCTURAL DETAILS

S321 STRUCTURAL DETAILS

S330 STRUCTURAL DETAILS

MI.00 MECHANICAL PLAN - BASEMENT

MI.01 | MECHANICAL PLAN - FIRST FLOOR

MI.03 MECHANICAL PLAN - THIRD FLOOR

MI.04 | MECHANICAL PLAN - FOURTH FLOOR

E1.00 ELECTRICAL POWER PLAN - BASEMENT

EI.01 | ELECTRICAL POWER PLAN - FIRST FLOOR

E1.02 | ELECTRICAL POWER PLAN - SECOND FLOOR

E1.03 ELECTRICAL POWER PLAN - THIRD FLOOR

E1.04 ELECTRICAL POWER PLAN - FOURTH FLOOR

E1.05 | ELECTRICAL POWER PLAN - ROOF

E2.00 ELECTRICAL DETAILS

E2.01 ELECTRICAL DETAILS

E2.02 ELECTRICAL DETAILS

P2.00 PLUMBING DETAILS

PI.00 PLUMBING PLAN - BASEMENT

PI.01 PLUMBING PLAN - FIRST FLOOR

PI.02 PLUMBING PLAN - SECOND FLOOR

PI.04 PLUMBING PLAN - FOURTH FLOOR

PI.03 PLUMBING PLAN - THIRD FLOOR

PLUMBING DRAWINGS

MI.05 MECHANICAL PLAN - ROOF

M2.00 MECHANICAL DETAILS

M2.01 MECHANICAL DETAILS

ELECTRICAL DRAWINGS

MI.02 | MECHANICAL PLAN - SECOND FLOOR

MECHANICAL DRAWINGS

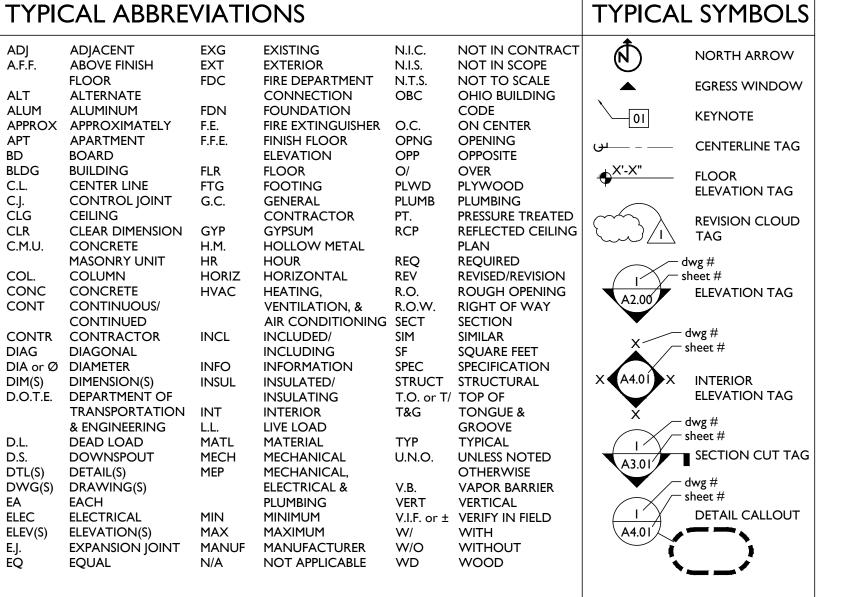
(513) 871-1850

DRAWING INDEX

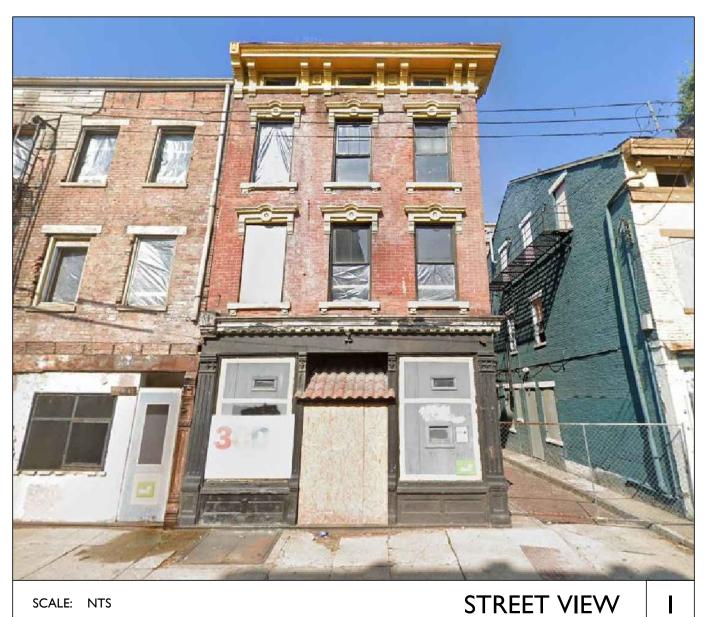
SHEET TITLE

PROJECT LOCATION -Vegan comic book store Playground & Elder | Findlay Market Over the Rhine Community Council Over-The-Rhine Senior Center

TYPICAL ABBREVIATIONS N.I.S. ABOVE FINISH **EXTERIOR** EXT FIRE DEPARTMENT N.T.S. FLOOR ALTERNATE CONNECTION ALUMINUM **FOUNDATION** APPROX APPROXIMATELY FIRE EXTINGUISHER



VICINITY MAP



SCALE: NTS

AERIAL IMAGE SCALE: NTS

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KURT PLATTE 10833 EXP DATE 12.31.2023

Design Team: CO, JK, MR, MR, RK, RO, SO, TB

2023.04.28 - BID/PERMIT

Progress Dates

Drawn by: MR, AM

Job No: 22042 04/28/2023

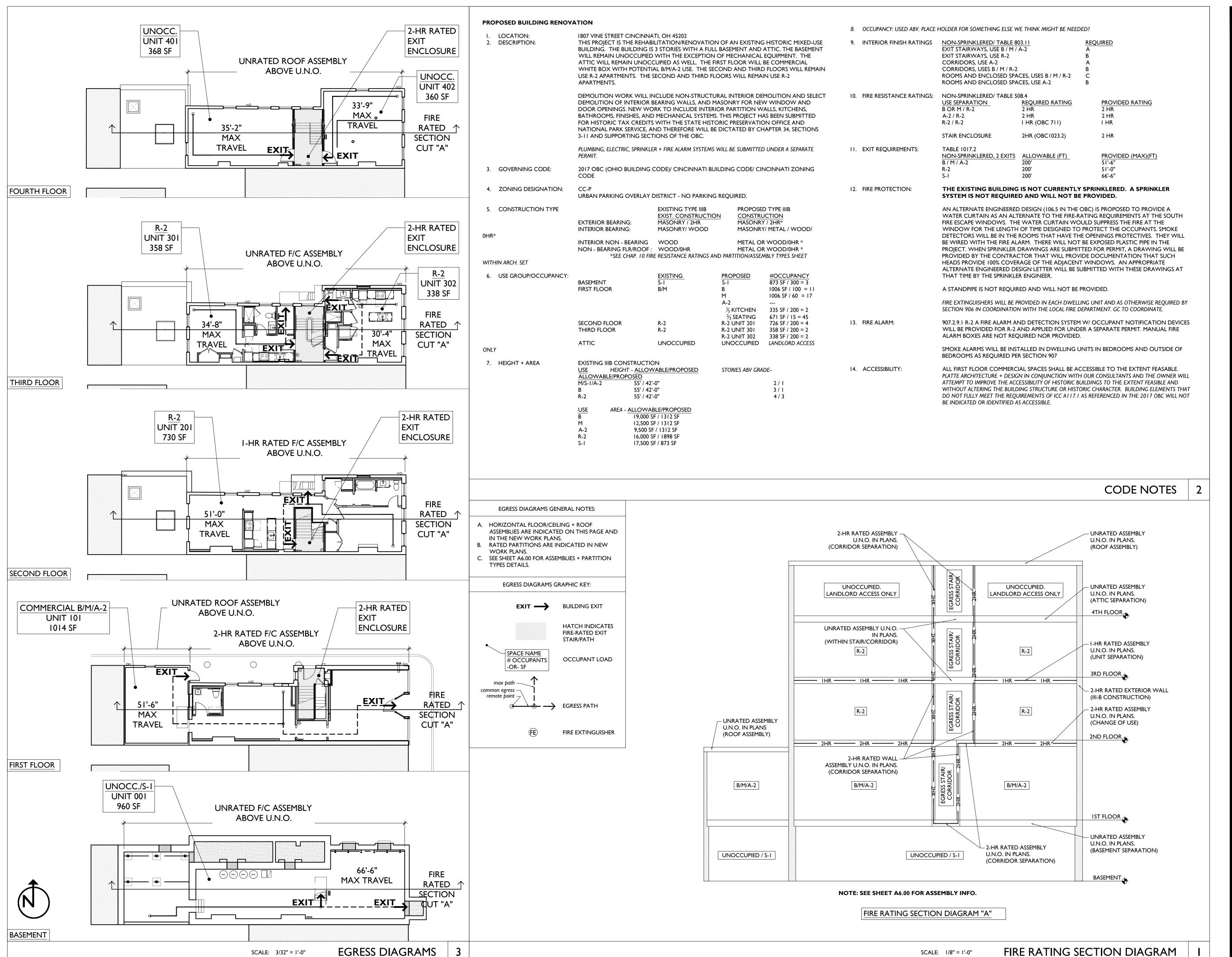
PLATTE DESIGN 1810 CAMPBELL ALLEY, STE 300 CINCINNATI, OH 45202

ARCHITECT

3CDC 1203 WALNUT STREET CINCINNATI, OH 45202 (513) 621-4400

PROJECT DESCRIPTION

AND MECHANICAL SYSTEMS. THIS PROJECT HAS BEEN SUBMITTED FOR HISTORIC TAX CREDITS WITH THE STATE HISTORIC PRESERVATION OFFICE AND NATIONAL PARK SERVICE, AND THEREFORE WILL BE DICTATED BY CHAPTER 34, SECTIONS 3-11 AND SUPPORTING SECTIONS OF THE OBC



PLAILE + design

KURT PLATTE 10833

KURT PLATTE 10833 EXP DATE 12.31.2023 Progress Dates 2023.04.28 - BID/PERMIT

Revisions

Design Team:
CO, JK, MR, MR, RK, RO, SO, TB

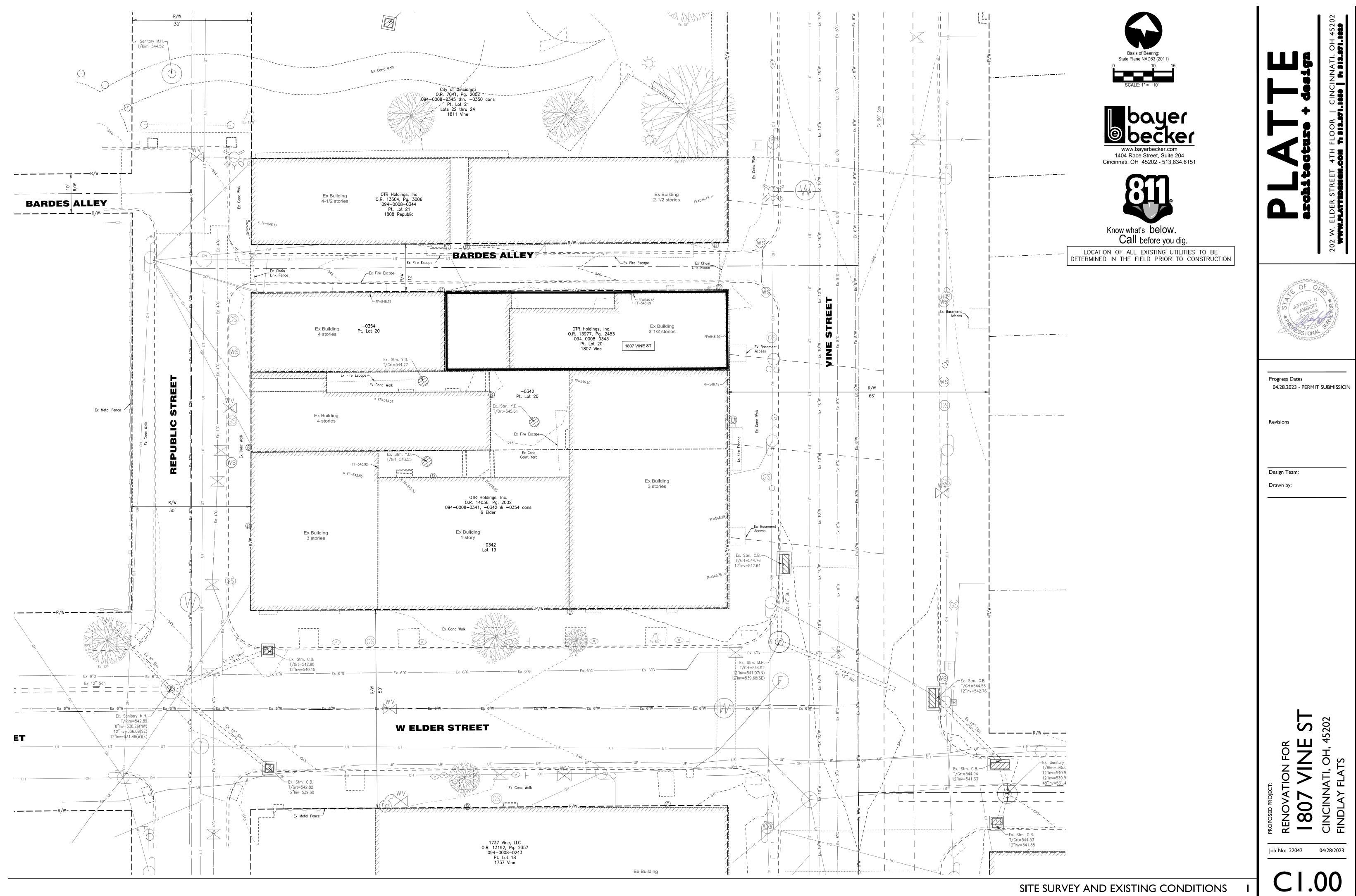
CO, JK, MR, MR, RI Drawn by: MR, AM

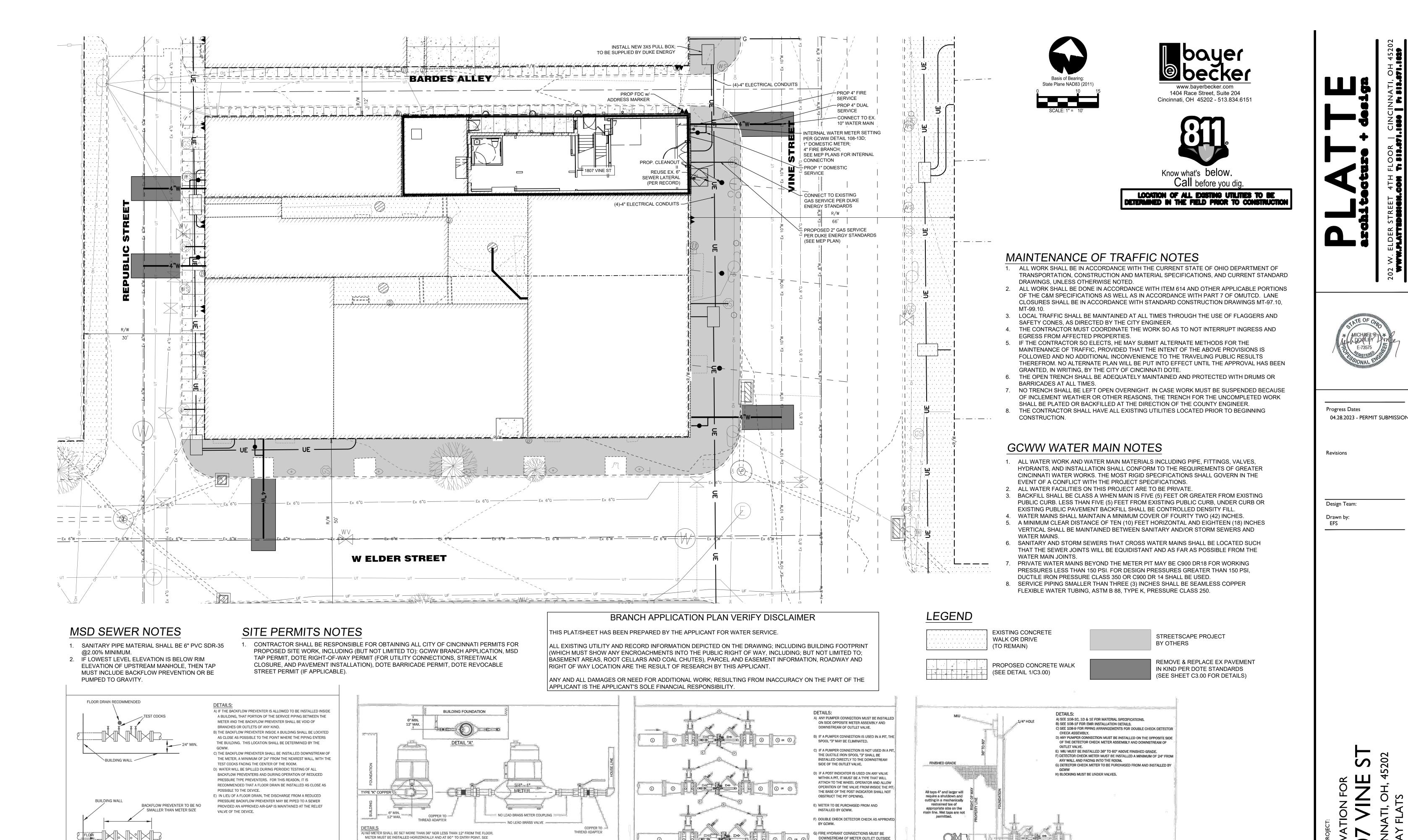
TION FOR VINE STREET

Job No: 22042 04/28/2023

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A0.0





1) FLANGED BY PLAIN END ADAPTER

4) FLANGED BY MECHANICAL JOINT (OPTIONAL)

2) FLANGED REDUCING SPOO

3) FLANGED SPOOL, 12" LONG

5) VALVES MUST BE OS & Y

INSIDE EMR METER SETTING

3/4" AND 1" METERS - COUPLING

WATER

DETAIL "A" THIS SHEET.

GENERAL BACKFLOW SETTINGS

INSIDE SETTING

OF BACKFLOW PREVENTER

CINCINNAT

FLOOR DRAIN RECOMMENDED

VALVES MUST BE THE SAME SIZE AS THE BRANCH.

RUNNING WIRE, SEALED WITH A FLEXIBLE SEALANT.

BETWEEN THE INLET VALVE AND THE STREET.

BRANCH REPLACEMENT OCCURS.

H) SEE 108-1D FOR DETAILS.

B) NO LEAD BRASS BALL VALVES TO BE 150 LBS. SWP WITH 3" HANDLES, STAINLESS STEEL OR BRASS BALL, BUNA-N-SEATS, CONFORMING TO ASTM B62 AND NSF 61.

D) METER MUST BE SEALED BY WATER WORKS PERSONNEL OR AUTHORIZED AGENT.

F) THIS SETTING IS REQUIRED WHEN AN INSIDE METER REDUCTION IS APPROVED OR

G) A 1/4" HOLE MUST BE DRILLED THROUGH THE FOUNDATION/WALL AND AFTER

E) ANY ELECTRICAL GROUND WIRE ON THE SERVICE LINE MUST BE LOCATED

LAYING LENGTH OF METERS; 3/4" METER IS 9", 1" METER IS 10 3/4".

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Job No: 22042 04/28/2023

4" OR LARGER FIRE ONLY

INSIDE EMR SETTING DOUBLE CHECK

DETECTOR CHECK ASSEMBLY

DATE STANDARD DRAWING 108-12A

108-19 For Inspection/Installation WATER

Property owner is responsible for all

excavation, backfill, and

PIPING ARRANGEMENT

DOUBLE CHECK DETECTOR CHECK

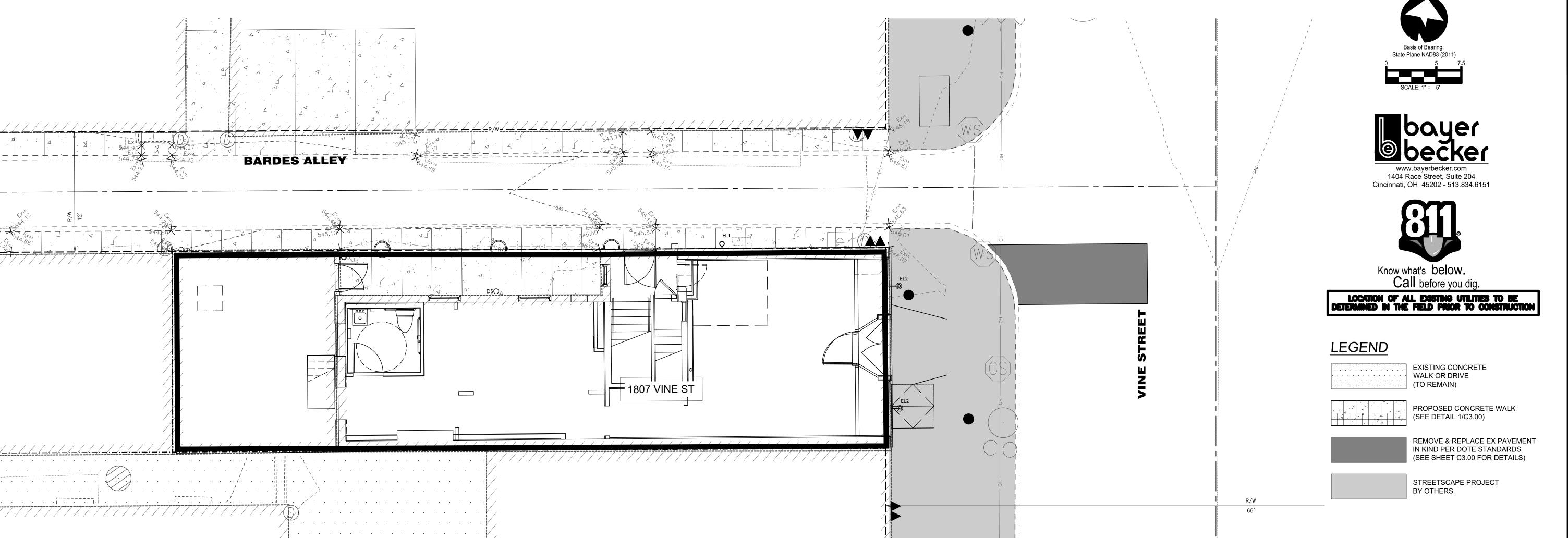
WORKS 1/4/13 108-9

ASSEMBLY

estoration work per GCWW

specifications.

All dead end pipe stubs



STANDARD RESTORATION
BLOCK PAVED STREETS | Sand Cushion (1') | Tar Paper or other

Compacted Trench Backfill

Compacted Trench Backfill

2 inches of 404 asphalt shall be compacted with 3 to 5 ton roller, 8 to 10 ton or equivalent vibratory compactor for longitudinal cuts.

Bond breaker shall be sand cushion (1"), tar paper or approved medium.

Edges of restoration shall be sealed with asphalt cement meeting the requirements of Item 702.1 of the Dhio Department of Transportation Construction and Materials Specifications.

Earth

Undisturbed

Concrete shall be consolidated with internal type vibrator.

approved bond

breaker

STANDARD RESTORATION

- Existing Asphalt Surface

Existing Concrete

Existing pavement shall be removed a minimum of 12 inches beyond the trench restoration.

Concrete shall be consolidated with internal type vibrator.

In lieu of the 12 inch cutback, one of the following methods may be used:

A) Installation of dowel bars as shown on detail this drawing.

B) Backfill with Controled Low Strength Material (CLSM)

2 inches of item 404 asphalt shall be compacted with 3 to 5 ton roller, 8 to 10 ton or equivalent vibratory compactor for longitudinal cuts.

Class "FS" concrete may be used when the pavement is required to be open to traffic the same day.

Item 702.01 - Edges of restoration

shall be sealed with asphalt cement.

The seal shall be a uniform 3 inch wide asphalt cement seal.

ASPHALT SURFACE ON CONCRETE BASE

Trench Wall

Longitudinal — Hook Bott or 5/8" x 18" Tie bar spaced 30" O.C.

CITY OF CINCINNATI

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAY ENGINEERING

STANDARD RESTORATION

OF OPENINGS

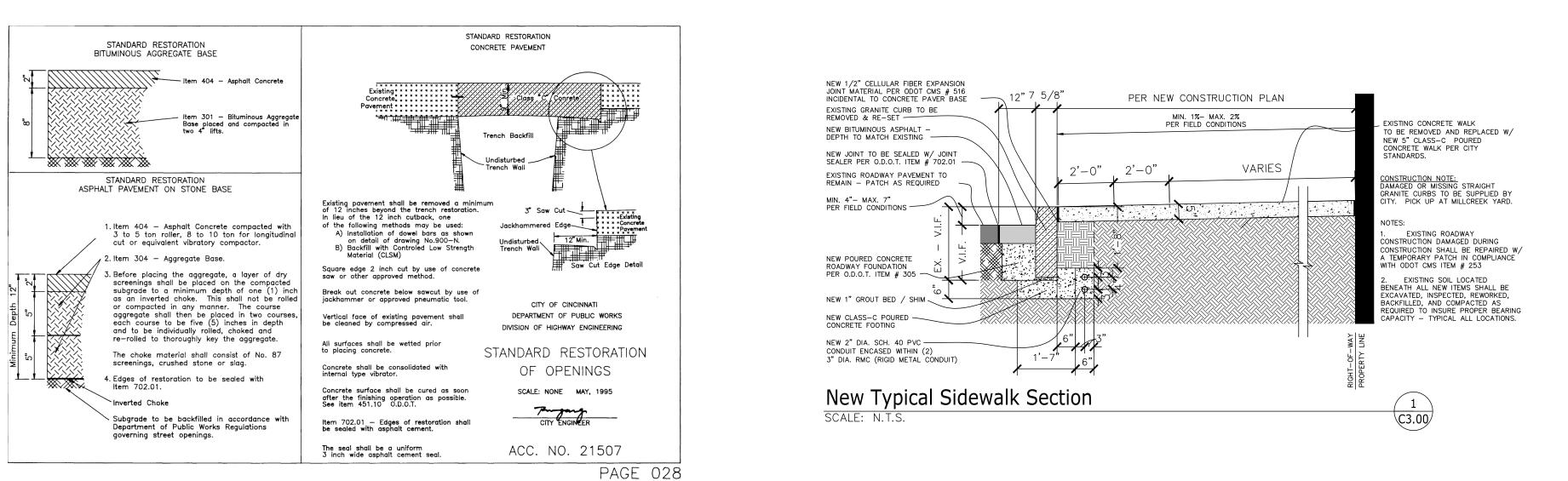
SCALE: NONE MAY, 1995

CITY ENGINEER

ACC. NO. 21506

PAGE 027

LTransverse - 1" x 18" Dowel spaced 12" 0.C.



Progress Dates 04.28.2023 - PERMIT SUBMISSION

Drawn by: EFS

S AND N 8

ALL KEYED NOTES LISTED MAY NOT APPLY TO THIS SHEET.

I. GENERAL

2. EXG CONDITIONS

- 2.1 REPAIR/RETAIN EXG FIRE ESCAPE. 2.2 REMOVE FRAMING & SHEATHING/DECKING IN THIS AREA. SEE
- STRUCTURAL DWGS & NEW WORK PLANS. 2.3 EXG HISTORIC EXTERIOR ORNAMENT TO REMAIN (CORNICE, BRACKET, FRIEZE, ENTABLATURE, PILASTER, ETC).
- 2.4 EXG SHUTTERS/GRATE TO BE REMOVED FROM EXG HISTORIC WINDOW. 2.5 SEE CIVIL DRAWINGS FOR SIDEWALK/STREETSCAPE SCOPE.
- 2.6 EXG STRUCTURAL ELEMENTS (POSTS, BEAMS, FOOTINGS, ETC.) TO REMAIN U.N.O., TYPICAL. SEE PROPOSED STRUCTURAL DRAWINGS.

3.1 EXG CONCRETE STEPS TO BE REMOVED. 3.2 EXG CONCRETE STEPS TO REMAIN. REPAIR AS REQ.

4. MASONRY

4.1 EXG CHIMNEY TO REMAIN. REPAIR CHIMNEY POTS AS REQ. 4.2 EXG MASONRY STRUCTURE/ADDITION TO BE REPAIRED. SEE STRUCTURAL DWGS.

5. METALS

5.1 EXG RUSTED BASEMENT HATCH TO BE REMOVED ENTIRELY.

6. WOOD, PLASTICS, AND COMPOSITES

6.1 EXG NON-HISTORIC WOOD STAIR TO REMAIN IN PLACE. REMOVE NON-HISTORIC GUARDRAIL/HANDRAIL. 6.2 EXG HISTORIC WOOD STAIR TO REMAIN IN PLACE. REMOVE

NON-HISTORIC HANDRAILS. RETAIN HISTORIC BALUSTERS. REPAIR HISTORIC ELEMENTS AS REQ.

7. THERMAL AND MOISTURE PROTECTION REMOVE NON-HISTORIC GUTTER & DOWNSPOUTS.

7.2 REPAIR/RETAIN EXG HISTORIC CORNICE & BOX GUTTER. 7.3 REMOVE EXG MEMBRANE ROOF. CONTRACTOR TO INSPECT EXG ROOF DECKING AND REPAIR AS NEEDED.

8.1 REMOVE NON-HISTORIC WINDOW & NON-HISTORIC FRAME

- ENTIRELY, BACK TO MASONRY OPENING. 8.2 REMOVE DOOR & FRAME ENTIRELY, BACK TO MASONRY OPENING. 8.3 NEW OR EXPANDED OPENING IN EXG HISTORIC WALL. SEE NEW WORK PLANS.
- 8.4 EXG HISTORIC WINDOW AND FRAME TO REMAIN IN PLACE. REPAIR AS REQ. SEE NEW WORK PLANS AND WINDOW DETAILS.
- 8.5 EXG HISTORIC WINDOW AND FRAME TO BE REMOVED ENTIRELY,
- BACK TO MASONRY OPG. 8.6 EXG HISTORIC WINDOW AND FRAME TO REMAIN IN PLACE, BUT TOP SASHES ARE TO BE RELOCATED TO OPPOSITE WINDOWS. WINDOW ON EAST (PRIMARY) ELEVATION IS TO BE A 1-OVER-I
- WINDOW, AND WINDOW ON THE NORTH ELEVATION IS TO BE A 6-OVER-6 WINDOW. 8.7 EXG HISTORIC DOOR/FRAME/OPG TO REMAIN IN PLACE. REPAIR AS
- REQ. SEE NEW WORK PLANS & DOOR TYPES/SCHEDULE FOR MORE 8.8 EXG HISTORIC DOOR/FRAME/OPG TO BE RELOCATED. REPAIR AS
- REQ. SEE NEW WORK PLANS & DOOR TYPES/SCHEDULE FOR MORE INFORMATION.
- 8.9 EXG INFILL TO BE REMOVED FROM EXG WINDOW OPG, BACK TO ORIGINAL MASONRY OPG. 8.10 EXG SKYLIGHT TO BE REMOVED. SKYLIGHT CURB TO BE REPAIRED AS REO TO RECEIVE NEW SKYLIGHT.

9.1 HISTORIC PLASTER AT MASONRY WALL TO REMAIN, IF POSSIBLE. 9.2 REMOVE NON-HISTORIC FINISH FLOORING DOWN TO WOOD

SPECIFICALLY NOTED OTHERWISE.

THROUGHOUT THIS PROJECT, HISTORIC DOORS, WINDOWS, AND INTERIOR TRIM REMAINS LARGELY INTACT. HISTORIC ELEMENTS (TRIM, DOORS, ETC.) TO REMAIN OR BE SALVAGED FOR REUSE. B. IF UNEXPECTED HISTORIC TRIM IS UNCOVERED DURING DEMOLITION, STOP WORK AND

CONTACT ARCHITECT IMMEDIATELY FOR DOCUMENTATION AND POSSIBLE SHPO/NPS C. AT NEW OPENINGS AND MODIFICATIONS OF EXG K. EXG DOWNSPOUT TIE-IN LOCATIONS TO BE OPENINGS IN MASONRY AND EXTERIOR WALLS:

I. VERIFY ANY INFILL IS NON-LOADBEARING PRIOR TO DEMOLITION. 2. VERIFY CONDITION OF ANY EXG LINTELS. IF DAMAGED, CONTACT ARCHITECT AND STRUCTURAL ENGINEER.

3. PROVIDE SHORING AS REQUIRED.

- 4. TOOTH OUT AND KEY IN MASONRY SO CUT BRICK IS NOT EXPOSED, EXCEPT WHERE NOTED IN CORRIDORS.
- 5. EXPOSED MASONRY EDGES ARE TO BE FIRED EDGES U.N.O. D. AT COMPLETION OF DEMOLITION, ALL FLOORS SHALL BE SWEPT BROOM CLEAN.

ADDITIONAL INFORMATION REGARDING

ELEMENTS TO BE RETAINED: E. IN AREAS OF NEW MASONRY OPENINGS, SALVAGE HISTORIC BRICK FOR REUSE & CAREFULLY SORT AND SEPARATE HARD-FIRED FACE BRICK FROM

MANTLES, BASEBOARDS, CROWN MOULDING, CONDENSERS, DUCTS, VENTS, PANELS, ETC. BACK WALL PANELS, WAINSCOTING, WINDOW FRAMES, TO SERVICE. DOOR FRAMES, ETC. AT WALLS WHERE PLASTER IS V. ELECTRIC SYSTEMS - FIXTURES, SWITCHES, BEING REMOVED OR WHERE NEW FURRING IS

HISTORIC TRIM.

OTHERWISE:

DASHED).

I. RETAIN HISTORIC INTERIOR AND EXTERIOR

BRICK MOULD AND SHUTTER HARDWARE.

REMOVE THE FOLLOWING, UNLESS NOTED

L. FURNITURE & DEBRIS, INTERIOR & EXTERIOR, ALL

N. NON-HISTORIC DOORS & DOOR FRAMES (SHOWN

P. PLASTER & LATH: REFER TO HISTORIC NARRATIVES

FOR SPECIFIC GUIDELINES FOR PLASTER REPAIR,

WHEN REQ. FOLLOW THESE GUIDELINES FOR THE

REMOVAL OR RETENTION OF PLASTER AND LATH,

INTERIOR WALLS TO REMAIN. REMOVE LOOSE OR

REPLACE DAMAGED/DETERIORATED SUBSTRATE AS

DETERIORATED PLASTER AT MASONRY WALLS.

Q. ROOFING DOWN TO EXG. SUBSTRATE, U.N.O.

UNO. RETAIN AND REPAIR PLASTER AT HISTORIC

O. NON-HISTORIC STAIRS (SHOWN DASHED).

FLOOR LEVELS, INCLUDING BASEMENT & ATTIC.

DOORS, TRANSOMS, AND SIDELITES.

M. SUSPENDED ACOUSTICAL CEILINGS.

RECEPTACLES, WIRING, PANELS, ETC. BACK TO PROPOSED, CAREFULLY REMOVE & RETAIN

W.PLUMBING SYSTEMS - FIXTURES, WATER HEATERS, DRAINS, PIPING, VENT STACKS, ETC. BACK TO SERVICE.

. RETAIN HISTORIC WOOD WINDOW SASH, FRAMES, X. NON-HISTORIC DOWNSPOUTS & ALUMINUM GUTTERS, GUTTERBOARDS. REUSED, UNO. CLEAR OF DEBRIS & REPAIR AS REQ.

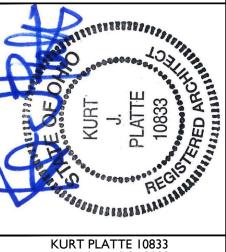
Y. NON-HISTORIC VINYL AND ALUMINUM WINDOWS. RETAIN HISTORIC WOOD FRAMES & BRICKMOLD. Z. VEGETATION.

__ _ _ EXG WALL/ELEMENT — — — TO BE REMOVED

EXG INTERIOR WALL TO REMAIN

EXG DOOR & FRAME TO BE REMOVED EXG WINDOW TO BE

REMOVED EXG FLOOR OR WALL CONSTRUCTION TO BE REMOVED



EXP DATE 12.31.2023 Progress Dates

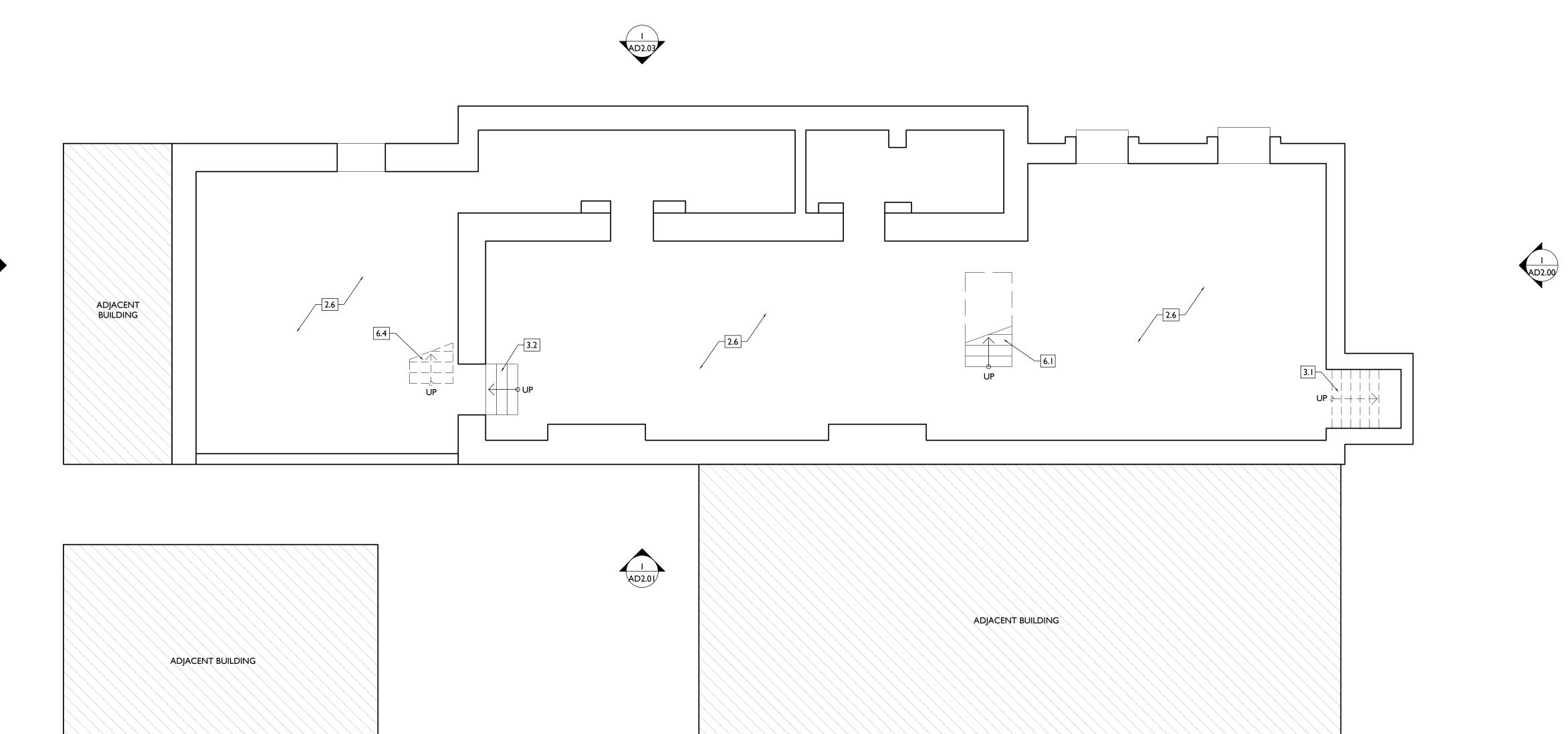
2023.04.28 - BID/PERMIT

Revisions

Design Team:
CO, JK, MR, MR, RK, RO, SO, TB
Drawn by:
MR, AM

STREET

Job No: 22042





SCALE: 1/4" = 1'-0"

EXISTING + DEMOLITION PLAN - BASEMENT

REGARDLESS OF THE CATEGORY IN WHICH THEY OCCUR.

ALL KEYED NOTES LISTED MAY NOT APPLY TO THIS SHEET.

I. GENERAL

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AS REQ TO RECEIVE NEW SKYLIGHT.

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- 3. PROVIDE SHORING AS REQUIRED. 4. TOOTH OUT AND KEY IN MASONRY SO CUT BRICK IS NOT EXPOSED, EXCEPT WHERE NOTED IN CORRIDORS. 5. EXPOSED MASONRY EDGES ARE TO BE FIRED
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BRICK MOULD AND SHUTTER HARDWARE.

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N. NON-HISTORIC DOORS & DOOR FRAMES (SHOWN

P. PLASTER & LATH: REFER TO HISTORIC NARRATIVES

FOR SPECIFIC GUIDELINES FOR PLASTER REPAIR,

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UNO. RETAIN AND REPAIR PLASTER AT HISTORIC

INTERIOR WALLS TO REMAIN. REMOVE LOOSE OR

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DETERIORATED PLASTER AT MASONRY WALLS.

Q. ROOFING DOWN TO EXG. SUBSTRATE, U.N.O.

O. NON-HISTORIC STAIRS (SHOWN DASHED).

FLOOR LEVELS, INCLUDING BASEMENT & ATTIC.

DOORS, TRANSOMS, AND SIDELITES.

M. SUSPENDED ACOUSTICAL CEILINGS.

HISTORIC TRIM.

OTHERWISE:

DASHED).

V. ELECTRIC SYSTEMS - FIXTURES, SWITCHES, RECEPTACLES, WIRING, PANELS, ETC. BACK TO SERVICE.

W.PLUMBING SYSTEMS - FIXTURES, WATER HEATERS, DRAINS, PIPING, VENT STACKS, ETC. BACK TO SERVICE. . RETAIN HISTORIC WOOD WINDOW SASH, FRAMES. X. NON-HISTORIC DOWNSPOUTS & ALUMINUM

GUTTERS, GUTTERBOARDS. Y. NON-HISTORIC VINYL AND ALUMINUM WINDOWS. REUSED, UNO. CLEAR OF DEBRIS & REPAIR AS REQ. RETAIN HISTORIC WOOD FRAMES & BRICKMOLD.

Z. VEGETATION.

EXG INTERIOR WALL TO REMAIN __ _ _ EXG WALL/ELEMENT

— — — TO BE REMOVED EXG DOOR & FRAME

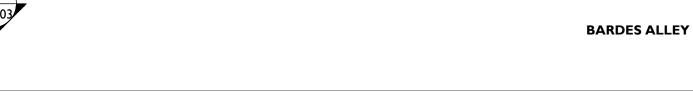
TO BE REMOVED EXG WINDOW TO BE REMOVED

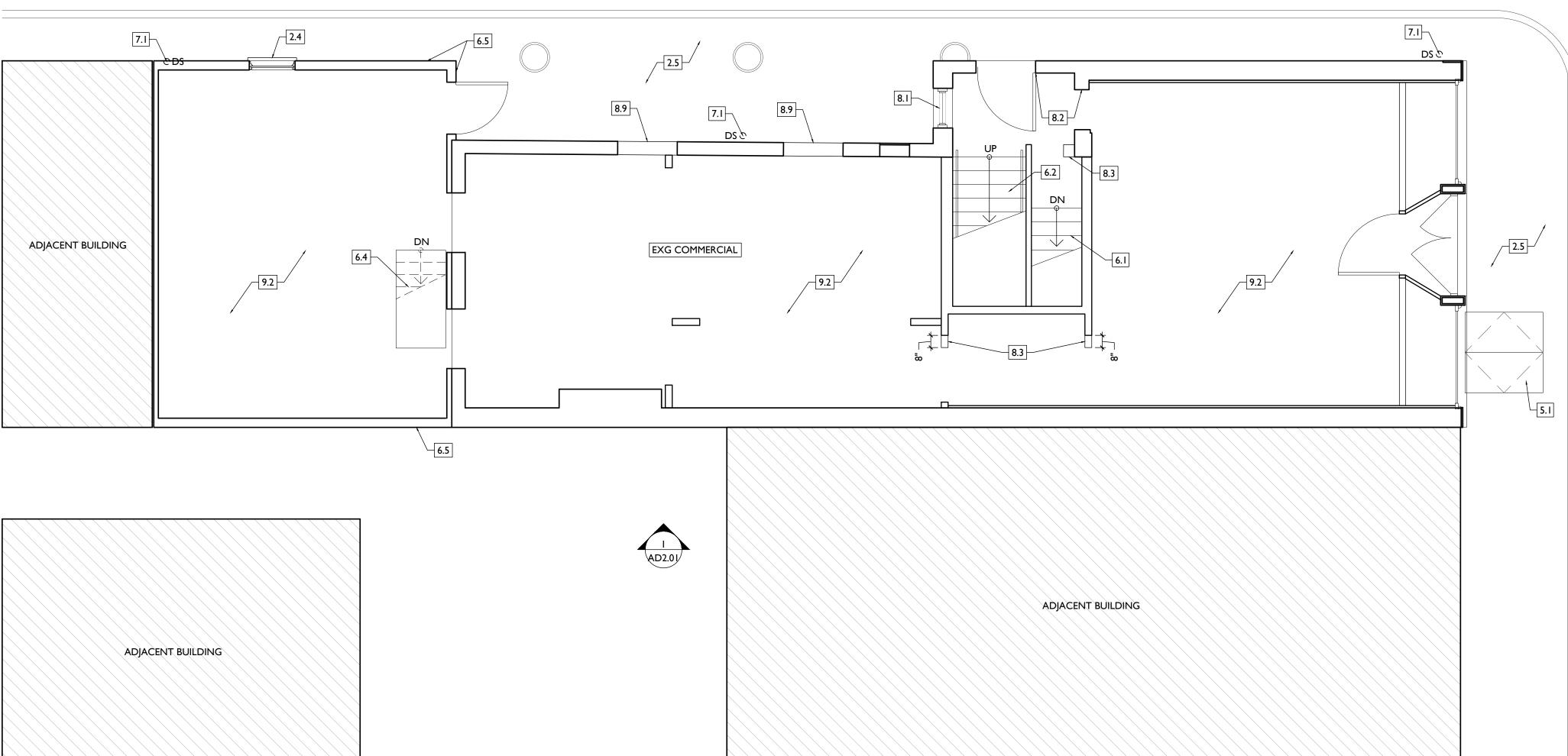
EXG FLOOR OR WALL CONSTRUCTION TO BE REMOVED

EXP DATE 12.31.2023 Progress Dates 2023.04.28 - BID/PERMIT

Revisions

Design Team:
CO, JK, MR, MR, RK, RO, SO, TB
Drawn by:
MR, AM







ONLY. NOTES MAY REQUIRE MATERIALS OR WORK IN CATEGORIES OTHER THAN WHERE THEY OCCUR. THE CONTRACTOR IS RESPONSIBLE FOR THE WORK DESCRIBED IN ALL APPLICABLE NOTES REGARDLESS OF THE CATEGORY IN WHICH THEY OCCUR.

ALL KEYED NOTES LISTED MAY NOT APPLY TO THIS SHEET.

I. GENERAL

2. EXG CONDITIONS

2.1 REPAIR/RETAIN EXG FIRE ESCAPE.

- 2.2 REMOVE FRAMING & SHEATHING/DECKING IN THIS AREA. SEE STRUCTURAL DWGS & NEW WORK PLANS. 2.3 EXG HISTORIC EXTERIOR ORNAMENT TO REMAIN (CORNICE,
- BRACKET, FRIEZE, ENTABLATURE, PILASTER, ETC). 2.4 EXG SHUTTERS/GRATE TO BE REMOVED FROM EXG HISTORIC
- 2.5 SEE CIVIL DRAWINGS FOR SIDEWALK/STREETSCAPE SCOPE. 2.6 EXG STRUCTURAL ELEMENTS (POSTS, BEAMS, FOOTINGS, ETC.) TO REMAIN U.N.O., TYPICAL. SEE PROPOSED STRUCTURAL DRAWINGS.

3.1 EXG CONCRETE STEPS TO BE REMOVED. 3.2 EXG CONCRETE STEPS TO REMAIN. REPAIR AS REQ.

4. MASONRY

4.1 EXG CHIMNEY TO REMAIN. REPAIR CHIMNEY POTS AS REQ. 4.2 EXG MASONRY STRUCTURE/ADDITION TO BE REPAIRED. SEE STRUCTURAL DWGS.

5. METALS

5.1 EXG RUSTED BASEMENT HATCH TO BE REMOVED ENTIRELY.

6. WOOD, PLASTICS, AND COMPOSITES

6.1 EXG NON-HISTORIC WOOD STAIR TO REMAIN IN PLACE. REMOVE

NON-HISTORIC GUARDRAIL/HANDRAIL. 6.2 EXG HISTORIC WOOD STAIR TO REMAIN IN PLACE. REMOVE NON-HISTORIC HANDRAILS. RETAIN HISTORIC BALUSTERS. REPAIR HISTORIC ELEMENTS AS REQ.

PLYWOOD SUBSTRATE AS REQ. IF REPLACED, NEW SIDING TO MATCH EXG IN SIZE AND PROFILE.

7. THERMAL AND MOISTURE PROTECTION REMOVE NON-HISTORIC GUTTER & DOWNSPOUTS.

7.2 REPAIR/RETAIN EXG HISTORIC CORNICE & BOX GUTTER. 7.3 REMOVE EXG MEMBRANE ROOF. CONTRACTOR TO INSPECT EXG ROOF DECKING AND REPAIR AS NEEDED.

8.1 REMOVE NON-HISTORIC WINDOW & NON-HISTORIC FRAME

- ENTIRELY, BACK TO MASONRY OPENING. 8.2 REMOVE DOOR & FRAME ENTIRELY, BACK TO MASONRY OPENING. 8.3 NEW OR EXPANDED OPENING IN EXG HISTORIC WALL. SEE NEW WORK PLANS.
- 8.4 EXG HISTORIC WINDOW AND FRAME TO REMAIN IN PLACE. REPAIR AS REO. SEE NEW WORK PLANS AND WINDOW DETAILS. 8.5 EXG HISTORIC WINDOW AND FRAME TO BE REMOVED ENTIRELY,
- BACK TO MASONRY OPG. 8.6 EXG HISTORIC WINDOW AND FRAME TO REMAIN IN PLACE, BUT TOP SASHES ARE TO BE RELOCATED TO OPPOSITE WINDOWS.
- WINDOW ON EAST (PRIMARY) ELEVATION IS TO BE A 1-OVER-I WINDOW, AND WINDOW ON THE NORTH ELEVATION IS TO BE A 6-OVER-6 WINDOW.
- 8.7 EXG HISTORIC DOOR/FRAME/OPG TO REMAIN IN PLACE. REPAIR AS REQ. SEE NEW WORK PLANS & DOOR TYPES/SCHEDULE FOR MORE INFORMATION.
- 8.8 EXG HISTORIC DOOR/FRAME/OPG TO BE RELOCATED. REPAIR AS REQ. SEE NEW WORK PLANS & DOOR TYPES/SCHEDULE FOR MORE INFORMATION.
- 8.9 EXG INFILL TO BE REMOVED FROM EXG WINDOW OPG, BACK TO ORIGINAL MASONRY OPG. 8.10 EXG SKYLIGHT TO BE REMOVED. SKYLIGHT CURB TO BE REPAIRED AS REQ TO RECEIVE NEW SKYLIGHT.

9.1 HISTORIC PLASTER AT MASONRY WALL TO REMAIN, IF POSSIBLE. 9.2 REMOVE NON-HISTORIC FINISH FLOORING DOWN TO WOOD

THE APPROVED PART 2 NARRATIVE AND **AMENDMENTS. NO HISTORIC ELEMENTS** ARE TO BE REMOVED OR MODIFIED UNLESS

THROUGHOUT THIS PROJECT, HISTORIC DOORS, WINDOWS, AND INTERIOR TRIM REMAINS LARGELY INTACT. HISTORIC ELEMENTS (TRIM, DOORS, ETC.) TO REMAIN OR BE SALVAGED FOR REUSE. B. IF UNEXPECTED HISTORIC TRIM IS UNCOVERED DURING DEMOLITION, STOP WORK AND

SPECIFICALLY NOTED OTHERWISE.

CONTACT ARCHITECT IMMEDIATELY FOR DOCUMENTATION AND POSSIBLE SHPO/NPS C. AT NEW OPENINGS AND MODIFICATIONS OF EXG K. EXG DOWNSPOUT TIE-IN LOCATIONS TO BE

OPENINGS IN MASONRY AND EXTERIOR WALLS: I. VERIFY ANY INFILL IS NON-LOADBEARING PRIOR TO DEMOLITION. 2. VERIFY CONDITION OF ANY EXG LINTELS. IF

- DAMAGED, CONTACT ARCHITECT AND STRUCTURAL ENGINEER. 3. PROVIDE SHORING AS REQUIRED.
- BRICK IS NOT EXPOSED, EXCEPT WHERE NOTED IN CORRIDORS. 5. EXPOSED MASONRY EDGES ARE TO BE FIRED

4. TOOTH OUT AND KEY IN MASONRY SO CUT

EDGES U.N.O. D. AT COMPLETION OF DEMOLITION, ALL FLOORS SHALL BE SWEPT BROOM CLEAN.

ADDITIONAL INFORMATION REGARDING

ELEMENTS TO BE RETAINED: E. IN AREAS OF NEW MASONRY OPENINGS, SALVAGE HISTORIC BRICK FOR REUSE & CAREFULLY SORT AND SEPARATE HARD-FIRED FACE BRICK FROM

G. RETAIN HISTORIC STOREFRONT ELEMENTS -T. NON-HISTORIC WALL FINISHES, INCLUDING COLUMNS, LINTELS, THRESHOLDS, GLAZING, ETC.

BEING REMOVED OR WHERE NEW FURRING IS

PROPOSED, CAREFULLY REMOVE & RETAIN

I. RETAIN HISTORIC INTERIOR AND EXTERIOR

BRICK MOULD AND SHUTTER HARDWARE.

REMOVE THE FOLLOWING, UNLESS NOTED

L. FURNITURE & DEBRIS, INTERIOR & EXTERIOR, ALL

N. NON-HISTORIC DOORS & DOOR FRAMES (SHOWN

P. PLASTER & LATH: REFER TO HISTORIC NARRATIVES

FOR SPECIFIC GUIDELINES FOR PLASTER REPAIR,

WHEN REQ. FOLLOW THESE GUIDELINES FOR THE

REMOVAL OR RETENTION OF PLASTER AND LATH,

INTERIOR WALLS TO REMAIN. REMOVE LOOSE OR

REPLACE DAMAGED/DETERIORATED SUBSTRATE AS

UNO. RETAIN AND REPAIR PLASTER AT HISTORIC

DETERIORATED PLASTER AT MASONRY WALLS.

Q. ROOFING DOWN TO EXG. SUBSTRATE, U.N.O.

O. NON-HISTORIC STAIRS (SHOWN DASHED).

FLOOR LEVELS, INCLUDING BASEMENT & ATTIC.

DOORS, TRANSOMS, AND SIDELITES.

M. SUSPENDED ACOUSTICAL CEILINGS.

HISTORIC TRIM.

OTHERWISE:

DASHED).

PANELING AND WALLCOVERING. H. RETAIN HISTORIC INTERIOR WOOD TRIM -U. MECHANICAL SYSTEMS - BOILERS, FURNACES, MANTLES, BASEBOARDS, CROWN MOULDING, CONDENSERS, DUCTS, VENTS, PANELS, ETC. BACK TO SERVICE. WALL PANELS, WAINSCOTING, WINDOW FRAMES,

DOOR FRAMES, ETC. AT WALLS WHERE PLASTER IS V. ELECTRIC SYSTEMS - FIXTURES, SWITCHES, RECEPTACLES, WIRING, PANELS, ETC. BACK TO

SERVICE. W.PLUMBING SYSTEMS - FIXTURES, WATER HEATERS, DRAINS, PIPING, VENT STACKS, ETC. BACK TO SERVICE.

. RETAIN HISTORIC WOOD WINDOW SASH, FRAMES, X. NON-HISTORIC DOWNSPOUTS & ALUMINUM GUTTERS, GUTTERBOARDS. REUSED, UNO. CLEAR OF DEBRIS & REPAIR AS REQ.

Y. NON-HISTORIC VINYL AND ALUMINUM WINDOWS. RETAIN HISTORIC WOOD FRAMES & BRICKMOLD. Z. VEGETATION.

EXG EXTERIOR WALL TO REMAIN EXG INTERIOR WALL

TO REMAIN __ _ _ EXG WALL/ELEMENT — — — TO BE REMOVED

EXG DOOR & FRAME

TO BE REMOVED EXG WINDOW TO BE REMOVED

EXG FLOOR OR WALL CONSTRUCTION TO BE REMOVED

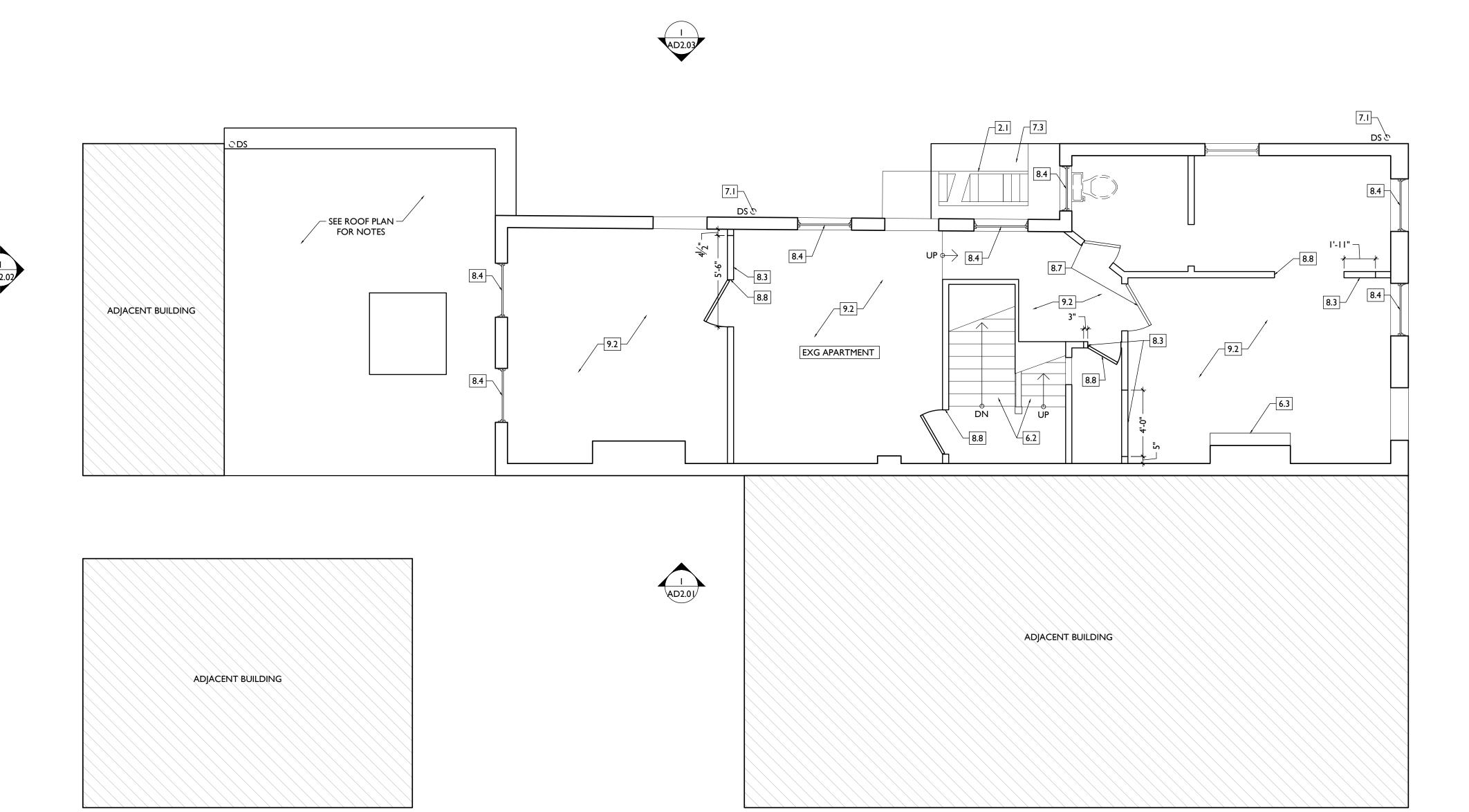
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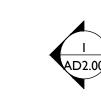
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Revisions

Design Team:
CO, JK, MR, MR, RK, RO, SO, TB
Drawn by:
MR, AM

REET





I. GENERAL

2. EXG CONDITIONS

2.1 REPAIR/RETAIN EXG FIRE ESCAPE.

2.2 REMOVE FRAMING & SHEATHING/DECKING IN THIS AREA. SEE STRUCTURAL DWGS & NEW WORK PLANS.

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- 2.3 EXG HISTORIC EXTERIOR ORNAMENT TO REMAIN (CORNICE, BRACKET, FRIEZE, ENTABLATURE, PILASTER, ETC). 2.4 EXG SHUTTERS/GRATE TO BE REMOVED FROM EXG HISTORIC
- 2.5 SEE CIVIL DRAWINGS FOR SIDEWALK/STREETSCAPE SCOPE. 2.6 EXG STRUCTURAL ELEMENTS (POSTS, BEAMS, FOOTINGS, ETC.) TO REMAIN U.N.O., TYPICAL. SEE PROPOSED STRUCTURAL DRAWINGS.

3.1 EXG CONCRETE STEPS TO BE REMOVED. 3.2 EXG CONCRETE STEPS TO REMAIN. REPAIR AS REQ.

4. MASONRY

4.1 EXG CHIMNEY TO REMAIN. REPAIR CHIMNEY POTS AS REQ. 4.2 EXG MASONRY STRUCTURE/ADDITION TO BE REPAIRED. SEE STRUCTURAL DWGS.

5. METALS

5.1 EXG RUSTED BASEMENT HATCH TO BE REMOVED ENTIRELY.

6. WOOD, PLASTICS, AND COMPOSITES

HISTORIC ELEMENTS AS REQ.

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7. THERMAL AND MOISTURE PROTECTION REMOVE NON-HISTORIC GUTTER & DOWNSPOUTS.

7.2 REPAIR/RETAIN EXG HISTORIC CORNICE & BOX GUTTER. 7.3 REMOVE EXG MEMBRANE ROOF. CONTRACTOR TO INSPECT EXG ROOF DECKING AND REPAIR AS NEEDED.

8.1 REMOVE NON-HISTORIC WINDOW & NON-HISTORIC FRAME ENTIRELY, BACK TO MASONRY OPENING.

- 8.2 REMOVE DOOR & FRAME ENTIRELY, BACK TO MASONRY OPENING. 8.3 NEW OR EXPANDED OPENING IN EXG HISTORIC WALL. SEE NEW WORK PLANS. 8.4 EXG HISTORIC WINDOW AND FRAME TO REMAIN IN PLACE. REPAIR
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- 8.9 EXG INFILL TO BE REMOVED FROM EXG WINDOW OPG, BACK TO ORIGINAL MASONRY OPG. 8.10 EXG SKYLIGHT TO BE REMOVED. SKYLIGHT CURB TO BE REPAIRED AS REO TO RECEIVE NEW SKYLIGHT.

9.1 HISTORIC PLASTER AT MASONRY WALL TO REMAIN, IF POSSIBLE. 9.2 REMOVE NON-HISTORIC FINISH FLOORING DOWN TO WOOD

ARE TO BE REMOVED OR MODIFIED UNLESS SPECIFICALLY NOTED OTHERWISE.

> WINDOWS, AND INTERIOR TRIM REMAINS LARGELY INTACT. HISTORIC ELEMENTS (TRIM, DOORS, ETC.) TO REMAIN OR BE SALVAGED FOR REUSE. B. IF UNEXPECTED HISTORIC TRIM IS UNCOVERED DURING DEMOLITION, STOP WORK AND CONTACT ARCHITECT IMMEDIATELY FOR DOCUMENTATION AND POSSIBLE SHPO/NPS

C. AT NEW OPENINGS AND MODIFICATIONS OF EXG K. EXG DOWNSPOUT TIE-IN LOCATIONS TO BE OPENINGS IN MASONRY AND EXTERIOR WALLS:

THROUGHOUT THIS PROJECT, HISTORIC DOORS,

- I. VERIFY ANY INFILL IS NON-LOADBEARING PRIOR TO DEMOLITION. 2. VERIFY CONDITION OF ANY EXG LINTELS. IF DAMAGED, CONTACT ARCHITECT AND
- STRUCTURAL ENGINEER. 3. PROVIDE SHORING AS REQUIRED. 4. TOOTH OUT AND KEY IN MASONRY SO CUT
- BRICK IS NOT EXPOSED, EXCEPT WHERE NOTED IN CORRIDORS. 5. EXPOSED MASONRY EDGES ARE TO BE FIRED EDGES U.N.O.
- D. AT COMPLETION OF DEMOLITION, ALL FLOORS SHALL BE SWEPT BROOM CLEAN.

ADDITIONAL INFORMATION REGARDING **ELEMENTS TO BE RETAINED:**

E. IN AREAS OF NEW MASONRY OPENINGS, SALVAGE HISTORIC BRICK FOR REUSE & CAREFULLY SORT AND SEPARATE HARD-FIRED FACE BRICK FROM

U. MECHANICAL SYSTEMS - BOILERS, FURNACES, MANTLES, BASEBOARDS, CROWN MOULDING, CONDENSERS, DUCTS, VENTS, PANELS, ETC. BACK WALL PANELS, WAINSCOTING, WINDOW FRAMES, TO SERVICE. DOOR FRAMES, ETC. AT WALLS WHERE PLASTER IS

BEING REMOVED OR WHERE NEW FURRING IS

PROPOSED, CAREFULLY REMOVE & RETAIN

I. RETAIN HISTORIC INTERIOR AND EXTERIOR

BRICK MOULD AND SHUTTER HARDWARE.

REMOVE THE FOLLOWING, UNLESS NOTED

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N. NON-HISTORIC DOORS & DOOR FRAMES (SHOWN

P. PLASTER & LATH: REFER TO HISTORIC NARRATIVES

FOR SPECIFIC GUIDELINES FOR PLASTER REPAIR,

WHEN REQ. FOLLOW THESE GUIDELINES FOR THE

REMOVAL OR RETENTION OF PLASTER AND LATH,

INTERIOR WALLS TO REMAIN. REMOVE LOOSE OR

REPLACE DAMAGED/DETERIORATED SUBSTRATE AS

DETERIORATED PLASTER AT MASONRY WALLS.

Q. ROOFING DOWN TO EXG. SUBSTRATE, U.N.O.

UNO. RETAIN AND REPAIR PLASTER AT HISTORIC

O. NON-HISTORIC STAIRS (SHOWN DASHED).

FLOOR LEVELS, INCLUDING BASEMENT & ATTIC.

DOORS, TRANSOMS, AND SIDELITES.

M. SUSPENDED ACOUSTICAL CEILINGS.

HISTORIC TRIM.

OTHERWISE:

DASHED).

V. ELECTRIC SYSTEMS - FIXTURES, SWITCHES, RECEPTACLES, WIRING, PANELS, ETC. BACK TO

W.PLUMBING SYSTEMS - FIXTURES, WATER HEATERS, DRAINS, PIPING, VENT STACKS, ETC. BACK TO SERVICE.

Z. VEGETATION.

. RETAIN HISTORIC WOOD WINDOW SASH, FRAMES. X. NON-HISTORIC DOWNSPOUTS & ALUMINUM GUTTERS, GUTTERBOARDS. Y. NON-HISTORIC VINYL AND ALUMINUM WINDOWS. REUSED, UNO. CLEAR OF DEBRIS & REPAIR AS REQ. RETAIN HISTORIC WOOD FRAMES & BRICKMOLD.

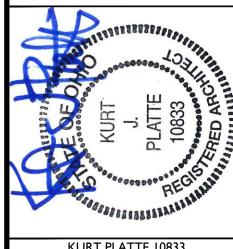
EXG INTERIOR WALL

TO REMAIN

__ _ _ EXG WALL/ELEMENT — — — TO BE REMOVED

EXG DOOR & FRAME TO BE REMOVED EXG WINDOW TO BE REMOVED

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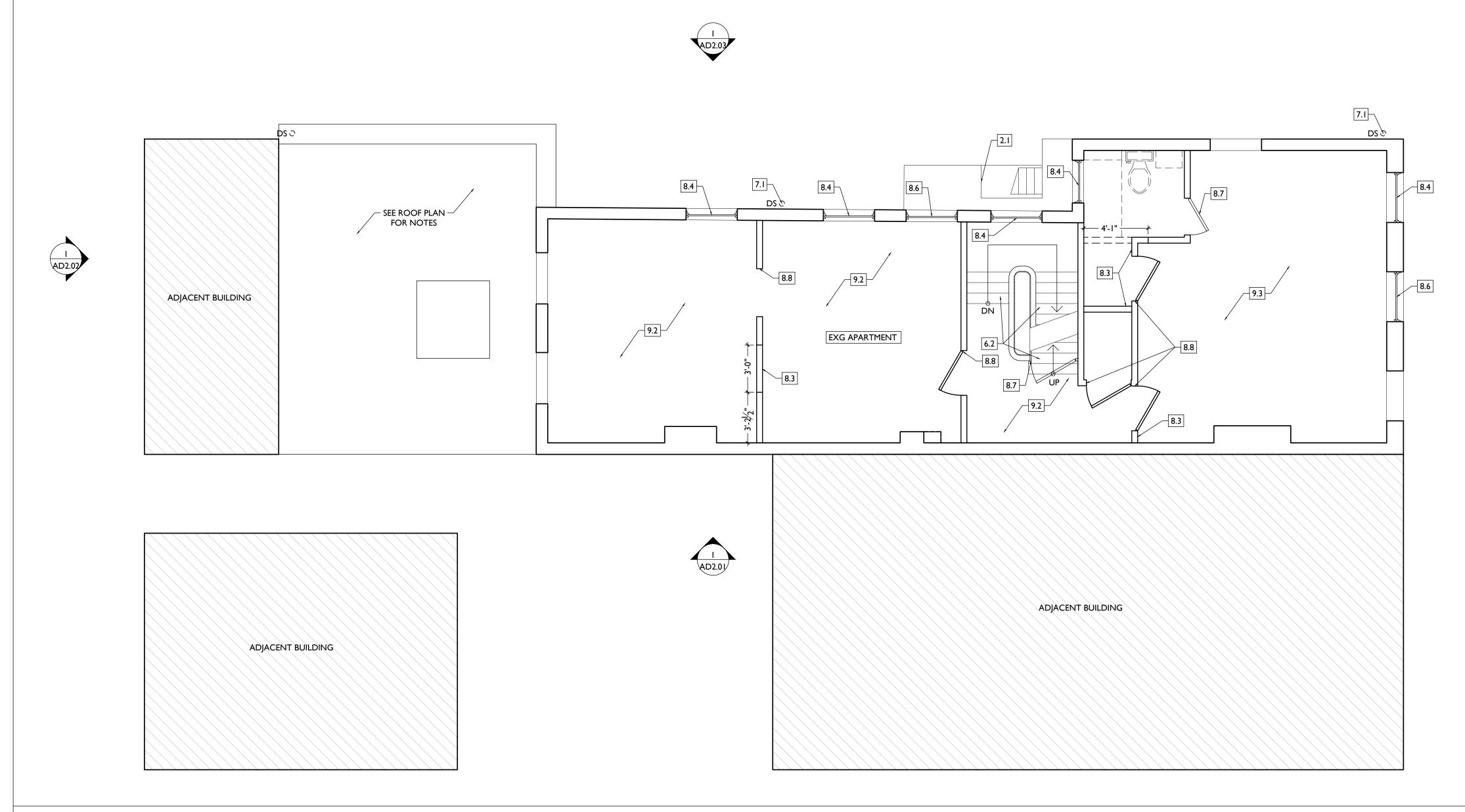


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Revisions

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CO, JK, MR, MR, RK, RO, SO, TB
Drawn by:
MR, AM

STREET





I. GENERAL

2. EXG CONDITIONS

2.1 REPAIR/RETAIN EXG FIRE ESCAPE. 2.2 REMOVE FRAMING & SHEATHING/DECKING IN THIS AREA. SEE

- STRUCTURAL DWGS & NEW WORK PLANS. 2.3 EXG HISTORIC EXTERIOR ORNAMENT TO REMAIN (CORNICE,
- BRACKET, FRIEZE, ENTABLATURE, PILASTER, ETC). 2.4 EXG SHUTTERS/GRATE TO BE REMOVED FROM EXG HISTORIC
- 2.5 SEE CIVIL DRAWINGS FOR SIDEWALK/STREETSCAPE SCOPE. 2.6 EXG STRUCTURAL ELEMENTS (POSTS, BEAMS, FOOTINGS, ETC.) TO REMAIN U.N.O., TYPICAL. SEE PROPOSED STRUCTURAL DRAWINGS.

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4.1 EXG CHIMNEY TO REMAIN. REPAIR CHIMNEY POTS AS REQ. 4.2 EXG MASONRY STRUCTURE/ADDITION TO BE REPAIRED. SEE STRUCTURAL DWGS.

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8.1 REMOVE NON-HISTORIC WINDOW & NON-HISTORIC FRAME ENTIRELY, BACK TO MASONRY OPENING. 8.2 REMOVE DOOR & FRAME ENTIRELY, BACK TO MASONRY OPENING. 8.3 NEW OR EXPANDED OPENING IN EXG HISTORIC WALL. SEE NEW

WORK PLANS. 8.4 EXG HISTORIC WINDOW AND FRAME TO REMAIN IN PLACE. REPAIR AS REQ. SEE NEW WORK PLANS AND WINDOW DETAILS.

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3. PROVIDE SHORING AS REQUIRED. 4. TOOTH OUT AND KEY IN MASONRY SO CUT BRICK IS NOT EXPOSED, EXCEPT WHERE NOTED IN CORRIDORS. 5. EXPOSED MASONRY EDGES ARE TO BE FIRED

EDGES U.N.O. D. AT COMPLETION OF DEMOLITION, ALL FLOORS SHALL BE SWEPT BROOM CLEAN.

ADDITIONAL INFORMATION REGARDING

ELEMENTS TO BE RETAINED: E. IN AREAS OF NEW MASONRY OPENINGS, SALVAGE HISTORIC BRICK FOR REUSE & CAREFULLY SORT AND SEPARATE HARD-FIRED FACE BRICK FROM

WALL PANELS, WAINSCOTING, WINDOW FRAMES, TO SERVICE.

DOOR FRAMES, ETC. AT WALLS WHERE PLASTER IS V. ELECTRIC SYSTEMS - FIXTURES, SWITCHES, RECEPTACLES, WIRING, PANELS, ETC. BACK TO

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TO REMAIN __ _ _ EXG WALL/ELEMENT — — — TO BE REMOVED

EXG DOOR & FRAME TO BE REMOVED

EXG WINDOW TO BE REMOVED EXG FLOOR OR WALL

CONSTRUCTION

TO BE REMOVED

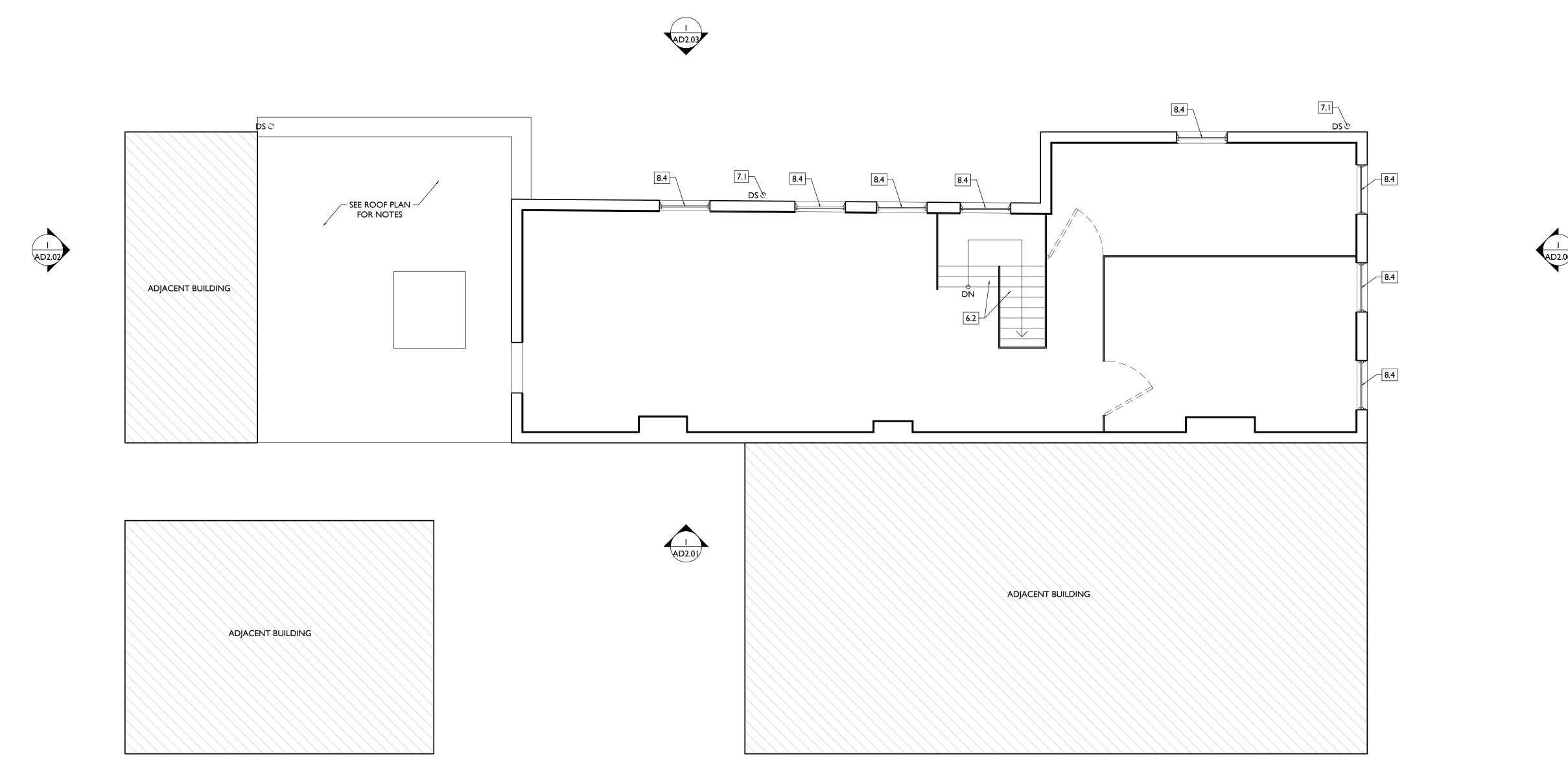
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STREET





ALL KEYED NOTES LISTED MAY NOT APPLY TO THIS SHEET.

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2.1 REPAIR/RETAIN EXG FIRE ESCAPE.

- 2.2 REMOVE FRAMING & SHEATHING/DECKING IN THIS AREA. SEE STRUCTURAL DWGS & NEW WORK PLANS.
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PLYWOOD SUBSTRATE AS REQ. IF REPLACED, NEW SIDING TO MATCH EXG IN SIZE AND PROFILE.

7. THERMAL AND MOISTURE PROTECTION REMOVE NON-HISTORIC GUTTER & DOWNSPOUTS.

7.2 REPAIR/RETAIN EXG HISTORIC CORNICE & BOX GUTTER. 7.3 REMOVE EXG MEMBRANE ROOF. CONTRACTOR TO INSPECT EXG ROOF DECKING AND REPAIR AS NEEDED.

8.1 REMOVE NON-HISTORIC WINDOW & NON-HISTORIC FRAME ENTIRELY, BACK TO MASONRY OPENING.

- 8.2 REMOVE DOOR & FRAME ENTIRELY, BACK TO MASONRY OPENING. 8.3 NEW OR EXPANDED OPENING IN EXG HISTORIC WALL. SEE NEW WORK PLANS. 8.4 EXG HISTORIC WINDOW AND FRAME TO REMAIN IN PLACE. REPAIR
- AS REQ. SEE NEW WORK PLANS AND WINDOW DETAILS. 8.5 EXG HISTORIC WINDOW AND FRAME TO BE REMOVED ENTIRELY,
- BACK TO MASONRY OPG. 8.6 EXG HISTORIC WINDOW AND FRAME TO REMAIN IN PLACE, BUT TOP SASHES ARE TO BE RELOCATED TO OPPOSITE WINDOWS. WINDOW ON EAST (PRIMARY) ELEVATION IS TO BE A 1-OVER-I
- WINDOW, AND WINDOW ON THE NORTH ELEVATION IS TO BE A 6-OVER-6 WINDOW. 8.7 EXG HISTORIC DOOR/FRAME/OPG TO REMAIN IN PLACE. REPAIR AS
- REQ. SEE NEW WORK PLANS & DOOR TYPES/SCHEDULE FOR MORE INFORMATION.
- 8.8 EXG HISTORIC DOOR/FRAME/OPG TO BE RELOCATED. REPAIR AS REQ. SEE NEW WORK PLANS & DOOR TYPES/SCHEDULE FOR MORE INFORMATION.
- 8.9 EXG INFILL TO BE REMOVED FROM EXG WINDOW OPG, BACK TO ORIGINAL MASONRY OPG. 8.10 EXG SKYLIGHT TO BE REMOVED. SKYLIGHT CURB TO BE REPAIRED AS REQ TO RECEIVE NEW SKYLIGHT.

9.1 HISTORIC PLASTER AT MASONRY WALL TO REMAIN, IF POSSIBLE. 9.2 REMOVE NON-HISTORIC FINISH FLOORING DOWN TO WOOD

THE APPROVED PART 2 NARRATIVE AND **AMENDMENTS. NO HISTORIC ELEMENTS** ARE TO BE REMOVED OR MODIFIED UNLESS SPECIFICALLY NOTED OTHERWISE.

> THROUGHOUT THIS PROJECT, HISTORIC DOORS, WINDOWS, AND INTERIOR TRIM REMAINS LARGELY INTACT. HISTORIC ELEMENTS (TRIM, DOORS, ETC.) TO REMAIN OR BE SALVAGED FOR REUSE. B. IF UNEXPECTED HISTORIC TRIM IS UNCOVERED DURING DEMOLITION, STOP WORK AND

CONTACT ARCHITECT IMMEDIATELY FOR DOCUMENTATION AND POSSIBLE SHPO/NPS C. AT NEW OPENINGS AND MODIFICATIONS OF EXG K. EXG DOWNSPOUT TIE-IN LOCATIONS TO BE OPENINGS IN MASONRY AND EXTERIOR WALLS:

I. VERIFY ANY INFILL IS NON-LOADBEARING PRIOR TO DEMOLITION. 2. VERIFY CONDITION OF ANY EXG LINTELS. IF DAMAGED, CONTACT ARCHITECT AND STRUCTURAL ENGINEER.

3. PROVIDE SHORING AS REQUIRED.

- 4. TOOTH OUT AND KEY IN MASONRY SO CUT BRICK IS NOT EXPOSED, EXCEPT WHERE NOTED IN CORRIDORS. 5. EXPOSED MASONRY EDGES ARE TO BE FIRED
- EDGES U.N.O. D. AT COMPLETION OF DEMOLITION, ALL FLOORS SHALL BE SWEPT BROOM CLEAN.

ADDITIONAL INFORMATION REGARDING **ELEMENTS TO BE RETAINED:**

E. IN AREAS OF NEW MASONRY OPENINGS, SALVAGE HISTORIC BRICK FOR REUSE & CAREFULLY SORT AND SEPARATE HARD-FIRED FACE BRICK FROM

T. NON-HISTORIC WALL FINISHES, INCLUDING

COLUMNS, LINTELS, THRESHOLDS, GLAZING, ETC. PANELING AND WALLCOVERING. U. MECHANICAL SYSTEMS - BOILERS, FURNACES, CONDENSERS, DUCTS, VENTS, PANELS, ETC. BACK WALL PANELS, WAINSCOTING, WINDOW FRAMES, TO SERVICE.

DOOR FRAMES, ETC. AT WALLS WHERE PLASTER IS V. ELECTRIC SYSTEMS - FIXTURES, SWITCHES, RECEPTACLES, WIRING, PANELS, ETC. BACK TO

W.PLUMBING SYSTEMS - FIXTURES, WATER HEATERS, DRAINS, PIPING, VENT STACKS, ETC. BACK TO SERVICE.

. RETAIN HISTORIC WOOD WINDOW SASH, FRAMES. X. NON-HISTORIC DOWNSPOUTS & ALUMINUM BRICK MOULD AND SHUTTER HARDWARE. GUTTERS, GUTTERBOARDS. Y. NON-HISTORIC VINYL AND ALUMINUM WINDOWS. RETAIN HISTORIC WOOD FRAMES & BRICKMOLD.

REUSED, UNO. CLEAR OF DEBRIS & REPAIR AS REQ. Z. VEGETATION.

REMOVE THE FOLLOWING, UNLESS NOTED

L. FURNITURE & DEBRIS, INTERIOR & EXTERIOR, ALL FLOOR LEVELS, INCLUDING BASEMENT & ATTIC. M. SUSPENDED ACOUSTICAL CEILINGS. N. NON-HISTORIC DOORS & DOOR FRAMES (SHOWN

H. RETAIN HISTORIC INTERIOR WOOD TRIM -

MANTLES, BASEBOARDS, CROWN MOULDING,

BEING REMOVED OR WHERE NEW FURRING IS

PROPOSED, CAREFULLY REMOVE & RETAIN

I. RETAIN HISTORIC INTERIOR AND EXTERIOR

DOORS, TRANSOMS, AND SIDELITES.

HISTORIC TRIM.

OTHERWISE:

DASHED). O. NON-HISTORIC STAIRS (SHOWN DASHED). P. PLASTER & LATH: REFER TO HISTORIC NARRATIVES FOR SPECIFIC GUIDELINES FOR PLASTER REPAIR, WHEN REQ. FOLLOW THESE GUIDELINES FOR THE REMOVAL OR RETENTION OF PLASTER AND LATH, UNO. RETAIN AND REPAIR PLASTER AT HISTORIC INTERIOR WALLS TO REMAIN. REMOVE LOOSE OR DETERIORATED PLASTER AT MASONRY WALLS.

Q. ROOFING DOWN TO EXG. SUBSTRATE, U.N.O. REPLACE DAMAGED/DETERIORATED SUBSTRATE AS

TO REMAIN **EXG INTERIOR WALL** TO REMAIN

__ _ _ EXG WALL/ELEMENT — — — TO BE REMOVED

EXG DOOR & FRAME TO BE REMOVED EXG WINDOW TO BE REMOVED

EXG FLOOR OR WALL CONSTRUCTION TO BE REMOVED

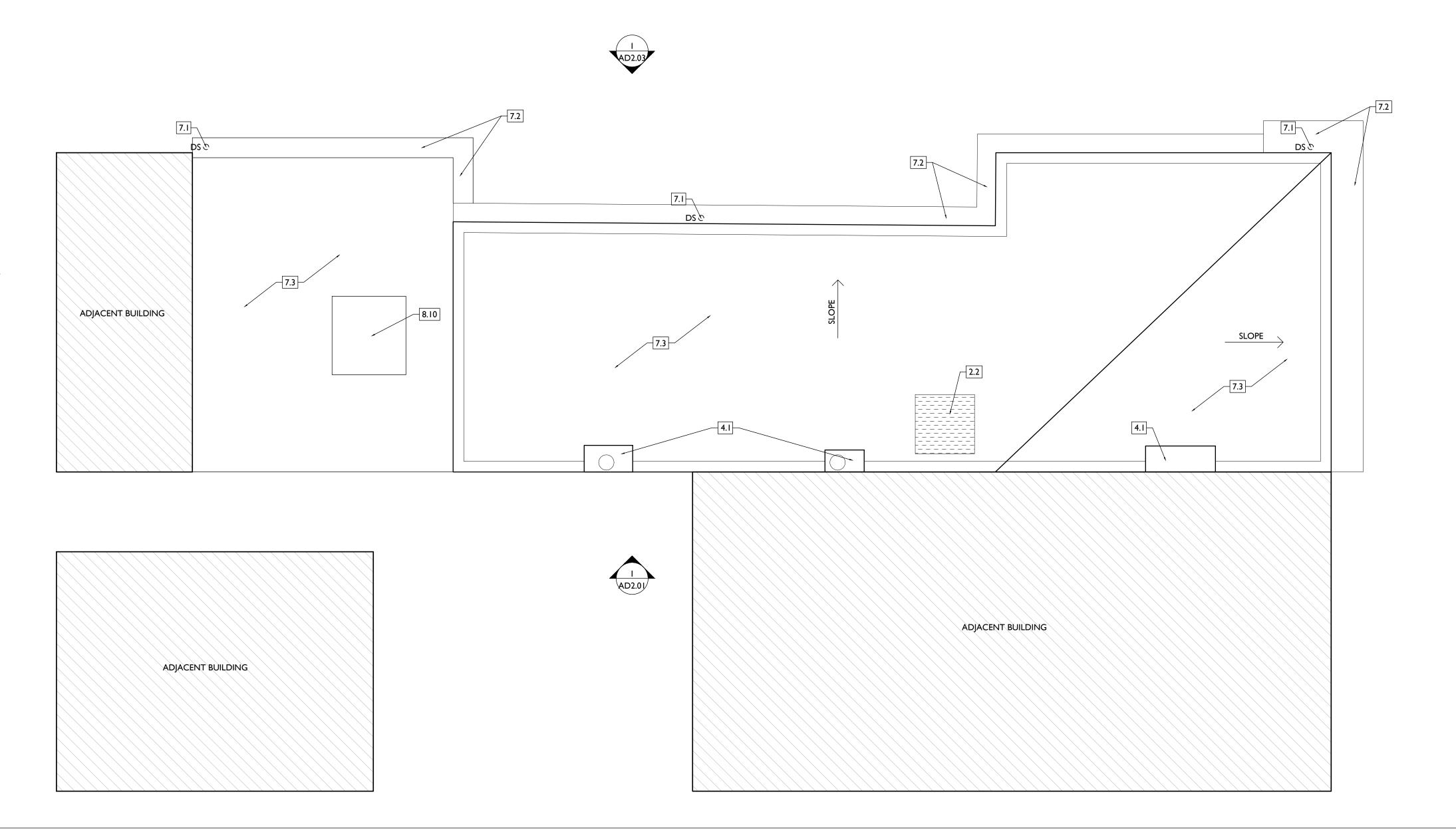
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Revisions

Design Team:
CO, JK, MR, MR, RK, RO, SO, TB
Drawn by:
MR, AM

STREET

Job No: 22042





EXISTING + DEMOLITION PLAN - ROOF

ALL KEYED NOTES LISTED MAY NOT APPLY TO THIS SHEET.

I. GENERAL

2. EXG CONDITIONS

- 2.1 REPAIR/RETAIN EXG FIRE ESCAPE. 2.2 REMOVE FRAMING & SHEATHING/DECKING IN THIS AREA. SEE STRUCTURAL DWGS & NEW WORK PLANS.
- 2.3 EXG HISTORIC EXTERIOR ORNAMENT TO REMAIN (CORNICE, BRACKET, FRIEZE, ENTABLATURE, PILASTER, ETC). 2.4 EXG SHUTTERS/GRATE TO BE REMOVED FROM EXG HISTORIC
- 2.5 SEE CIVIL DRAWINGS FOR SIDEWALK/STREETSCAPE SCOPE. 2.6 EXG STRUCTURAL ELEMENTS (POSTS, BEAMS, FOOTINGS, ETC.) TO REMAIN U.N.O., TYPICAL. SEE PROPOSED STRUCTURAL DRAWINGS.

3.1 EXG CONCRETE STEPS TO BE REMOVED. 3.2 EXG CONCRETE STEPS TO REMAIN. REPAIR AS REQ.

4. MASONRY

4.1 EXG CHIMNEY TO REMAIN. REPAIR CHIMNEY POTS AS REO. 4.2 EXG MASONRY STRUCTURE/ADDITION TO BE REPAIRED. SEE STRUCTURAL DWGS.

5. METALS

5.1 EXG RUSTED BASEMENT HATCH TO BE REMOVED ENTIRELY.

HISTORIC ELEMENTS AS REQ.

6. WOOD, PLASTICS, AND COMPOSITES 6.1 EXG NON-HISTORIC WOOD STAIR TO REMAIN IN PLACE. REMOVE

NON-HISTORIC GUARDRAIL/HANDRAIL. 6.2 EXG HISTORIC WOOD STAIR TO REMAIN IN PLACE. REMOVE NON-HISTORIC HANDRAILS. RETAIN HISTORIC BALUSTERS. REPAIR

6.3 REPAIR/RETAIN EXG HISTORIC MANTLE & TRIM.

6.4 EXG NON-HISTORIC WOOD STAIR TO BE REMOVED ENTIRELY. 6.5 REPAIR/RETAIN EXG WOOD SIDING. REPLACE SIDING AND PLYWOOD SUBSTRATE AS REO. IF REPLACED, NEW SIDING TO MATCH EXG IN SIZE AND PROFILE.

7. THERMAL AND MOISTURE PROTECTION REMOVE NON-HISTORIC GUTTER & DOWNSPOUTS.

7.2 REPAIR/RETAIN EXG HISTORIC CORNICE & BOX GUTTER. 7.3 REMOVE EXG MEMBRANE ROOF. CONTRACTOR TO INSPECT EXG ROOF DECKING AND REPAIR AS NEEDED.

8.1 REMOVE NON-HISTORIC WINDOW & NON-HISTORIC FRAME ENTIRELY, BACK TO MASONRY OPENING.

- 8.2 REMOVE DOOR & FRAME ENTIRELY, BACK TO MASONRY OPENING. 8.3 NEW OR EXPANDED OPENING IN EXG HISTORIC WALL. SEE NEW WORK PLANS. 8.4 EXG HISTORIC WINDOW AND FRAME TO REMAIN IN PLACE. REPAIR
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- 8.6 EXG HISTORIC WINDOW AND FRAME TO REMAIN IN PLACE, BUT TOP SASHES ARE TO BE RELOCATED TO OPPOSITE WINDOWS. WINDOW ON EAST (PRIMARY) ELEVATION IS TO BE A 1-OVER-I WINDOW, AND WINDOW ON THE NORTH ELEVATION IS TO BE A
- 6-OVER-6 WINDOW. 8.7 EXG HISTORIC DOOR/FRAME/OPG TO REMAIN IN PLACE. REPAIR AS REQ. SEE NEW WORK PLANS & DOOR TYPES/SCHEDULE FOR MORE
- 8.8 EXG HISTORIC DOOR/FRAME/OPG TO BE RELOCATED. REPAIR AS REQ. SEE NEW WORK PLANS & DOOR TYPES/SCHEDULE FOR MORE INFORMATION.
- 8.9 EXG INFILL TO BE REMOVED FROM EXG WINDOW OPG, BACK TO ORIGINAL MASONRY OPG. 8.10 EXG SKYLIGHT TO BE REMOVED. SKYLIGHT CURB TO BE REPAIRED AS REO TO RECEIVE NEW SKYLIGHT.

9.1 HISTORIC PLASTER AT MASONRY WALL TO REMAIN, IF POSSIBLE. 9.2 REMOVE NON-HISTORIC FINISH FLOORING DOWN TO WOOD

9.3 EXG HISTORIC FLOORING TO REMAIN. SEE NEW WORK PLANS.

A. THIS PROJECT IS A NPS AND OHPO HISTORIC PRESERVATION TAX CREDIT PROJECT. **COORDINATE & CONFORM ALL WORK TO** THE APPROVED PART 2 NARRATIVE AND **AMENDMENTS. NO HISTORIC ELEMENTS** ARE TO BE REMOVED OR MODIFIED UNLESS SPECIFICALLY NOTED OTHERWISE.

> TO REMAIN OR BE SALVAGED FOR REUSE. B. IF UNEXPECTED HISTORIC TRIM IS UNCOVERED DURING DEMOLITION, STOP WORK AND CONTACT ARCHITECT IMMEDIATELY FOR DOCUMENTATION AND POSSIBLE SHPO/NPS

C. AT NEW OPENINGS AND MODIFICATIONS OF EXG K. EXG DOWNSPOUT TIE-IN LOCATIONS TO BE OPENINGS IN MASONRY AND EXTERIOR WALLS: I. VERIFY ANY INFILL IS NON-LOADBEARING PRIOR

THROUGHOUT THIS PROJECT, HISTORIC DOORS,

WINDOWS, AND INTERIOR TRIM REMAINS LARGELY

INTACT. HISTORIC ELEMENTS (TRIM, DOORS, ETC.)

- TO DEMOLITION. 2. VERIFY CONDITION OF ANY EXG LINTELS. IF DAMAGED, CONTACT ARCHITECT AND STRUCTURAL ENGINEER.
- 3. PROVIDE SHORING AS REQUIRED. 4. TOOTH OUT AND KEY IN MASONRY SO CUT BRICK IS NOT EXPOSED, EXCEPT WHERE NOTED IN CORRIDORS.
- 5. EXPOSED MASONRY EDGES ARE TO BE FIRED EDGES U.N.O.

D. AT COMPLETION OF DEMOLITION, ALL FLOORS SHALL BE SWEPT BROOM CLEAN.

ADDITIONAL INFORMATION REGARDING **ELEMENTS TO BE RETAINED:** E. IN AREAS OF NEW MASONRY OPENINGS, SALVAGE

HISTORIC BRICK FOR REUSE & CAREFULLY SORT

AND SEPARATE HARD-FIRED FACE BRICK FROM

BRICKS AT INTERIOR WYTHES.

PROPOSED, CAREFULLY REMOVE & RETAIN

I. RETAIN HISTORIC INTERIOR AND EXTERIOR

BRICK MOULD AND SHUTTER HARDWARE.

REMOVE THE FOLLOWING, UNLESS NOTED

L. FURNITURE & DEBRIS, INTERIOR & EXTERIOR, ALL

N. NON-HISTORIC DOORS & DOOR FRAMES (SHOWN

P. PLASTER & LATH: REFER TO HISTORIC NARRATIVES

FOR SPECIFIC GUIDELINES FOR PLASTER REPAIR,

WHEN REQ. FOLLOW THESE GUIDELINES FOR THE

REMOVAL OR RETENTION OF PLASTER AND LATH,

INTERIOR WALLS TO REMAIN. REMOVE LOOSE OR

REPLACE DAMAGED/DETERIORATED SUBSTRATE AS

UNO. RETAIN AND REPAIR PLASTER AT HISTORIC

DETERIORATED PLASTER AT MASONRY WALLS.

Q. ROOFING DOWN TO EXG. SUBSTRATE, U.N.O.

O. NON-HISTORIC STAIRS (SHOWN DASHED).

FLOOR LEVELS, INCLUDING BASEMENT & ATTIC.

DOORS, TRANSOMS, AND SIDELITES.

M. SUSPENDED ACOUSTICAL CEILINGS.

HISTORIC TRIM.

OTHERWISE:

DASHED).

R. DETERIORATED WOOD SUBFLOOR: REPLACE WITH F. RETAIN HISTORIC EXTERIOR ORNAMENT-NEW PLYWOOD SUBFLOOR, SEE PROPOSED.

CORNICES, FRIEZES, BRACKETS, ETC. S. NON-HISTORIC CABINETRY. G. RETAIN HISTORIC STOREFRONT ELEMENTS -T. NON-HISTORIC WALL FINISHES, INCLUDING COLUMNS, LINTELS, THRESHOLDS, GLAZING, ETC.

PANELING AND WALLCOVERING. H. RETAIN HISTORIC INTERIOR WOOD TRIM -U. MECHANICAL SYSTEMS - BOILERS, FURNACES, MANTLES, BASEBOARDS, CROWN MOULDING, CONDENSERS, DUCTS, VENTS, PANELS, ETC. BACK WALL PANELS, WAINSCOTING, WINDOW FRAMES, TO SERVICE. DOOR FRAMES, ETC. AT WALLS WHERE PLASTER IS V. ELECTRIC SYSTEMS - FIXTURES, SWITCHES, BEING REMOVED OR WHERE NEW FURRING IS

RECEPTACLES, WIRING, PANELS, ETC. BACK TO

W.PLUMBING SYSTEMS - FIXTURES, WATER HEATERS, DRAINS, PIPING, VENT STACKS, ETC. BACK TO SERVICE. . RETAIN HISTORIC WOOD WINDOW SASH, FRAMES. X. NON-HISTORIC DOWNSPOUTS & ALUMINUM

GUTTERS, GUTTERBOARDS. Y. NON-HISTORIC VINYL AND ALUMINUM WINDOWS. RETAIN HISTORIC WOOD FRAMES & BRICKMOLD. REUSED, UNO. CLEAR OF DEBRIS & REPAIR AS REQ. Z. VEGETATION.

KEYNOTE EXG EXTERIOR WALL TO REMAIN

DEMO WORK GRAPHIC KEY:

EXG INTERIOR WALL TO REMAIN

__ _ _ EXG WALL/ELEMENT — — — TO BE REMOVED

EXG DOOR & FRAME TO BE REMOVED EXG WINDOW TO BE REMOVED

EXG FLOOR OR WALL CONSTRUCTION TO BE REMOVED

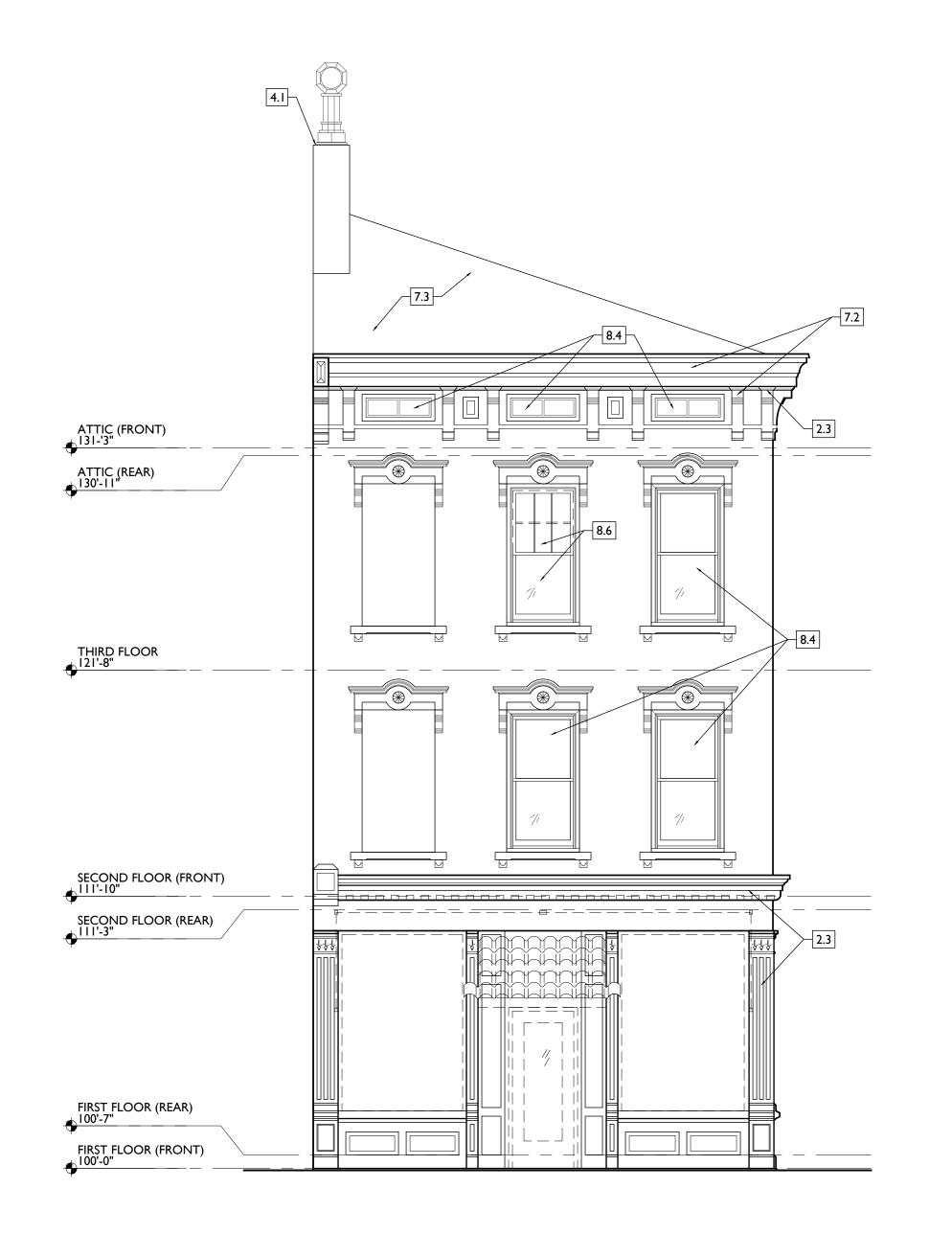
EXP DATE 12.31.2023 Progress Dates

2023.04.28 - BID/PERMIT

Revisions

Design Team:
CO, JK, MR, MR, RK, RO, SO, TB
Drawn by:
MR, AM

STREET





8.6 EXG HISTORIC WINDOW AND FRAME TO REMAIN IN PLACE, BUT

6-OVER-6 WINDOW.

INFORMATION.

ORIGINAL MASONRY OPG.

AS REQ TO RECEIVE NEW SKYLIGHT.

3.1 EXG CONCRETE STEPS TO BE REMOVED.

6. WOOD, PLASTICS, AND COMPOSITES

HISTORIC ELEMENTS AS REQ.

NON-HISTORIC GUARDRAIL/HANDRAIL.

4. MASONRY

5. METALS

STRUCTURAL DWGS.

3.2 EXG CONCRETE STEPS TO REMAIN. REPAIR AS REQ.

4.1 EXG CHIMNEY TO REMAIN. REPAIR CHIMNEY POTS AS REQ.

4.2 EXG MASONRY STRUCTURE/ADDITION TO BE REPAIRED. SEE

5.1 EXG RUSTED BASEMENT HATCH TO BE REMOVED ENTIRELY.

6.2 EXG HISTORIC WOOD STAIR TO REMAIN IN PLACE. REMOVE

6.1 EXG NON-HISTORIC WOOD STAIR TO REMAIN IN PLACE. REMOVE

NON-HISTORIC HANDRAILS. RETAIN HISTORIC BALUSTERS. REPAIR

TOP SASHES ARE TO BE RELOCATED TO OPPOSITE WINDOWS.

WINDOW ON EAST (PRIMARY) ELEVATION IS TO BE A 1-OVER-I

8.7 EXG HISTORIC DOOR/FRAME/OPG TO REMAIN IN PLACE. REPAIR AS

8.8 EXG HISTORIC DOOR/FRAME/OPG TO BE RELOCATED. REPAIR AS

8.9 EXG INFILL TO BE REMOVED FROM EXG WINDOW OPG, BACK TO

8.10 EXG SKYLIGHT TO BE REMOVED. SKYLIGHT CURB TO BE REPAIRED

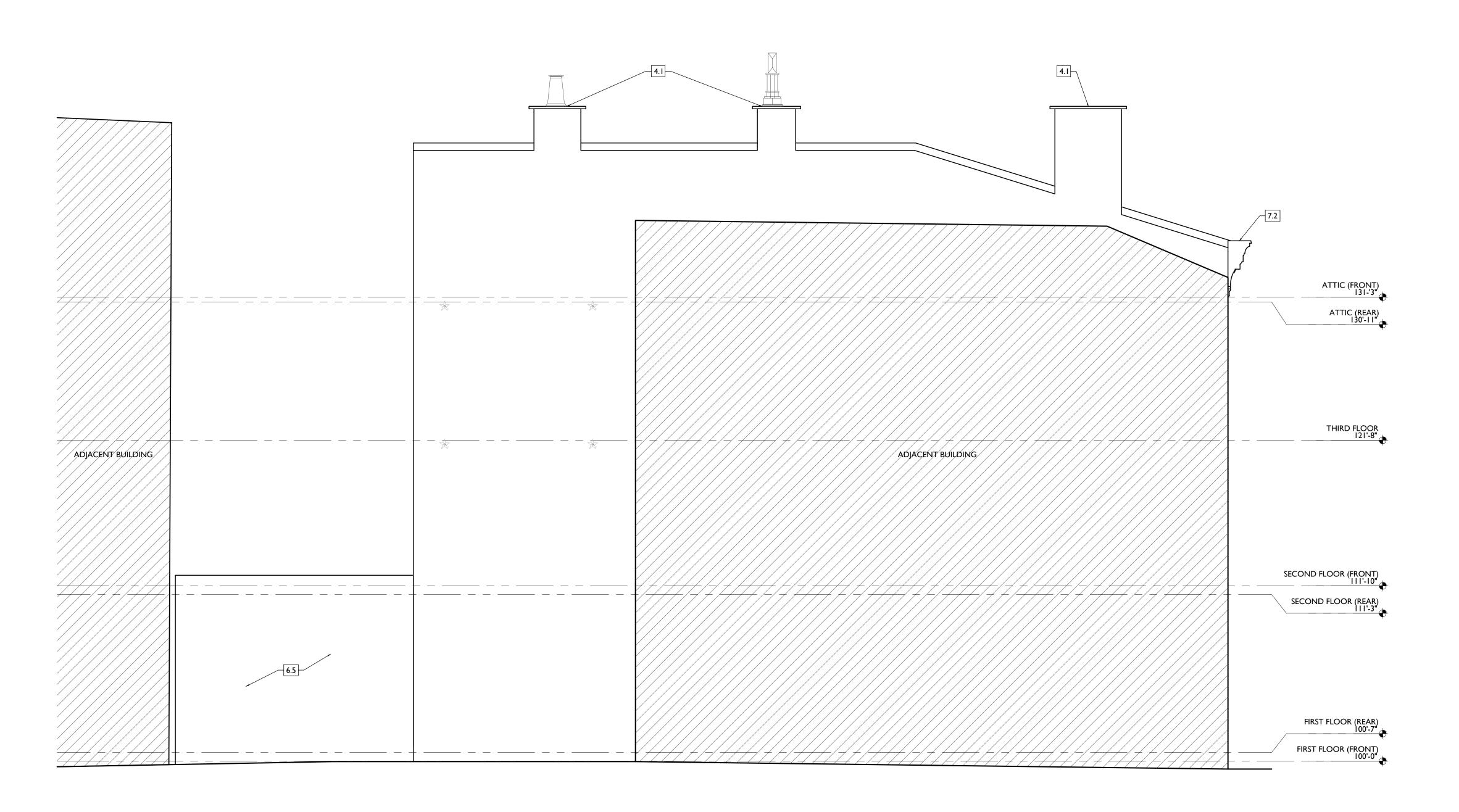
9.1 HISTORIC PLASTER AT MASONRY WALL TO REMAIN, IF POSSIBLE.

9.2 REMOVE NON-HISTORIC FINISH FLOORING DOWN TO WOOD

WINDOW, AND WINDOW ON THE NORTH ELEVATION IS TO BE A

REQ. SEE NEW WORK PLANS & DOOR TYPES/SCHEDULE FOR MORE

REQ. SEE NEW WORK PLANS & DOOR TYPES/SCHEDULE FOR MORE



PLAT FE architecture + design

KURT J. PLATTE TO CAMPE

KURT PLATTE 10833 EXP DATE 12.31.2023 Progress Dates 2023.04.28 - BID/PERMIT

Revisions

Design Team:
CO, JK, MR, MR, RK, RO, SO, TB
Drawn by:
MR, AM

REET

807 VINE STRE

Job No: 22042 04/28/2023

OTHERWISE:

DASHED).

L. FURNITURE & DEBRIS, INTERIOR & EXTERIOR, ALL

N. NON-HISTORIC DOORS & DOOR FRAMES (SHOWN

P. PLASTER & LATH: REFER TO HISTORIC NARRATIVES

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Q. ROOFING DOWN TO EXG. SUBSTRATE, U.N.O.

O. NON-HISTORIC STAIRS (SHOWN DASHED).

M. SUSPENDED ACOUSTICAL CEILINGS.

FLOOR LEVELS, INCLUDING BASEMENT & ATTIC.

2. VERIFY CONDITION OF ANY EXG LINTELS. IF

4. TOOTH OUT AND KEY IN MASONRY SO CUT

5. EXPOSED MASONRY EDGES ARE TO BE FIRED

D. AT COMPLETION OF DEMOLITION, ALL FLOORS

E. IN AREAS OF NEW MASONRY OPENINGS, SALVAGE

HISTORIC BRICK FOR REUSE & CAREFULLY SORT

AND SEPARATE HARD-FIRED FACE BRICK FROM

ADDITIONAL INFORMATION REGARDING

BRICK IS NOT EXPOSED, EXCEPT WHERE NOTED

DAMAGED, CONTACT ARCHITECT AND

STRUCTURAL ENGINEER.

SHALL BE SWEPT BROOM CLEAN.

ELEMENTS TO BE RETAINED:

IN CORRIDORS.

EDGES U.N.O.

3. PROVIDE SHORING AS REQUIRED.

KEYED NOTES

KEYED NOTES ARE CATEGORIZED FOR ORGANIZATIONAL PURPOSES ONLY. NOTES MAY REQUIRE MATERIALS OR WORK IN CATEGORIES OTHER THAN WHERE THEY OCCUR. THE CONTRACTOR IS RESPONSIBLE FOR THE WORK DESCRIBED IN ALL APPLICABLE NOTES REGARDLESS OF THE CATEGORY IN WHICH THEY OCCUR.

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I. GENERAL

2. EXG CONDITIONS

2.1 REPAIR/RETAIN EXG FIRE ESCAPE.

- 2.2 REMOVE FRAMING & SHEATHING/DECKING IN THIS AREA. SEE STRUCTURAL DWGS & NEW WORK PLANS.
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3. PROVIDE SHORING AS REQUIRED. 4. TOOTH OUT AND KEY IN MASONRY SO CUT BRICK IS NOT EXPOSED, EXCEPT WHERE NOTED IN CORRIDORS.

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ADDITIONAL INFORMATION REGARDING **ELEMENTS TO BE RETAINED:**

E. IN AREAS OF NEW MASONRY OPENINGS, SALVAGE HISTORIC BRICK FOR REUSE & CAREFULLY SORT AND SEPARATE HARD-FIRED FACE BRICK FROM

BRICKS AT INTERIOR WYTHES.

F. RETAIN HISTORIC EXTERIOR ORNAMENT-

CORNICES, FRIEZES, BRACKETS, ETC. G. RETAIN HISTORIC STOREFRONT ELEMENTS -H. RETAIN HISTORIC INTERIOR WOOD TRIM -

COLUMNS, LINTELS, THRESHOLDS, GLAZING, ETC. MANTLES, BASEBOARDS, CROWN MOULDING, WALL PANELS, WAINSCOTING, WINDOW FRAMES, DOOR FRAMES, ETC. AT WALLS WHERE PLASTER IS

BEING REMOVED OR WHERE NEW FURRING IS PROPOSED, CAREFULLY REMOVE & RETAIN HISTORIC TRIM. I. RETAIN HISTORIC INTERIOR AND EXTERIOR

DOORS, TRANSOMS, AND SIDELITES. BRICK MOULD AND SHUTTER HARDWARE.

REMOVE THE FOLLOWING, UNLESS NOTED OTHERWISE:

REUSED, UNO. CLEAR OF DEBRIS & REPAIR AS REQ.

L. FURNITURE & DEBRIS, INTERIOR & EXTERIOR, ALL FLOOR LEVELS, INCLUDING BASEMENT & ATTIC.

M. SUSPENDED ACOUSTICAL CEILINGS. N. NON-HISTORIC DOORS & DOOR FRAMES (SHOWN DASHED).

O. NON-HISTORIC STAIRS (SHOWN DASHED). P. PLASTER & LATH: REFER TO HISTORIC NARRATIVES FOR SPECIFIC GUIDELINES FOR PLASTER REPAIR, WHEN REQ. FOLLOW THESE GUIDELINES FOR THE REMOVAL OR RETENTION OF PLASTER AND LATH, UNO. RETAIN AND REPAIR PLASTER AT HISTORIC INTERIOR WALLS TO REMAIN. REMOVE LOOSE OR DETERIORATED PLASTER AT MASONRY WALLS. Q. ROOFING DOWN TO EXG. SUBSTRATE, U.N.O. REPLACE DAMAGED/DETERIORATED SUBSTRATE AS R. DETERIORATED WOOD SUBFLOOR: REPLACE WITH NEW PLYWOOD SUBFLOOR, SEE PROPOSED.

S. NON-HISTORIC CABINETRY. T. NON-HISTORIC WALL FINISHES, INCLUDING PANELING AND WALLCOVERING. U. MECHANICAL SYSTEMS - BOILERS, FURNACES, CONDENSERS, DUCTS, VENTS, PANELS, ETC. BACK

TO SERVICE. V. ELECTRIC SYSTEMS - FIXTURES, SWITCHES, RECEPTACLES, WIRING, PANELS, ETC. BACK TO SERVICE.

DRAINS, PIPING, VENT STACKS, ETC. BACK TO SERVICE. . RETAIN HISTORIC WOOD WINDOW SASH, FRAMES. X. NON-HISTORIC DOWNSPOUTS & ALUMINUM

W.PLUMBING SYSTEMS - FIXTURES, WATER HEATERS,

GUTTERS, GUTTERBOARDS. Y. NON-HISTORIC VINYL AND ALUMINUM WINDOWS. RETAIN HISTORIC WOOD FRAMES & BRICKMOLD. Z. VEGETATION.

EXG EXTERIOR WALL

TO REMAIN **EXG INTERIOR WALL** TO REMAIN

KEYNOTE

__ _ _ EXG WALL/ELEMENT — — — TO BE REMOVED

EXG DOOR & FRAME TO BE REMOVED EXG WINDOW TO BE REMOVED

EXG FLOOR OR WALL CONSTRUCTION TO BE REMOVED

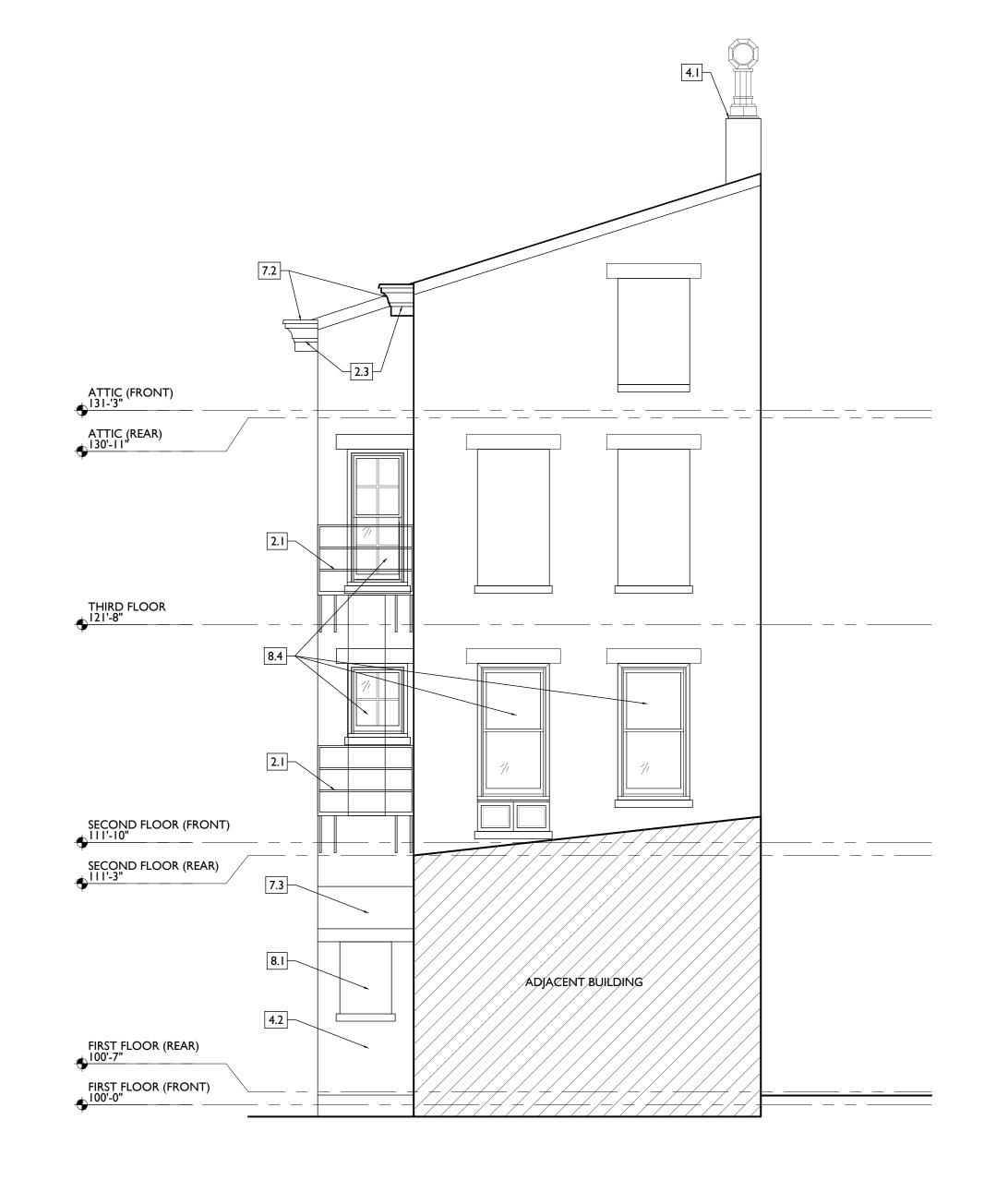
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Revisions

Design Team:
CO, JK, MR, MR, RK, RO, SO, TB
Drawn by:
MR, AM

STREET



KEYED NOTES

KEYED NOTES ARE CATEGORIZED FOR ORGANIZATIONAL PURPOSES ONLY. NOTES MAY REQUIRE MATERIALS OR WORK IN CATEGORIES OTHER THAN WHERE THEY OCCUR. THE CONTRACTOR IS RESPONSIBLE FOR THE WORK DESCRIBED IN ALL APPLICABLE NOTES REGARDLESS OF THE CATEGORY IN WHICH THEY OCCUR.

ALL KEYED NOTES LISTED MAY NOT APPLY TO THIS SHEET.

I. GENERAL

2. EXG CONDITIONS 2.1 REPAIR/RETAIN EXG FIRE ESCAPE.

- 2.2 REMOVE FRAMING & SHEATHING/DECKING IN THIS AREA. SEE STRUCTURAL DWGS & NEW WORK PLANS.
- 2.3 EXG HISTORIC EXTERIOR ORNAMENT TO REMAIN (CORNICE, BRACKET, FRIEZE, ENTABLATURE, PILASTER, ETC). 2.4 EXG SHUTTERS/GRATE TO BE REMOVED FROM EXG HISTORIC
- 2.5 SEE CIVIL DRAWINGS FOR SIDEWALK/STREETSCAPE SCOPE. 2.6 EXG STRUCTURAL ELEMENTS (POSTS, BEAMS, FOOTINGS, ETC.) TO REMAIN U.N.O., TYPICAL. SEE PROPOSED STRUCTURAL DRAWINGS.

3.1 EXG CONCRETE STEPS TO BE REMOVED. 3.2 EXG CONCRETE STEPS TO REMAIN. REPAIR AS REQ.

4. MASONRY

4.1 EXG CHIMNEY TO REMAIN. REPAIR CHIMNEY POTS AS REQ. 4.2 EXG MASONRY STRUCTURE/ADDITION TO BE REPAIRED. SEE STRUCTURAL DWGS.

5. METALS

5.1 EXG RUSTED BASEMENT HATCH TO BE REMOVED ENTIRELY.

NON-HISTORIC GUARDRAIL/HANDRAIL.

6. WOOD, PLASTICS, AND COMPOSITES

6.1 EXG NON-HISTORIC WOOD STAIR TO REMAIN IN PLACE. REMOVE

6.2 EXG HISTORIC WOOD STAIR TO REMAIN IN PLACE. REMOVE NON-HISTORIC HANDRAILS. RETAIN HISTORIC BALUSTERS. REPAIR HISTORIC ELEMENTS AS REQ.

6.3 REPAIR/RETAIN EXG HISTORIC MANTLE & TRIM.

6.4 EXG NON-HISTORIC WOOD STAIR TO BE REMOVED ENTIRELY. 6.5 REPAIR/RETAIN EXG WOOD SIDING. REPLACE SIDING AND PLYWOOD SUBSTRATE AS REQ. IF REPLACED, NEW SIDING TO MATCH EXG IN SIZE AND PROFILE.

7. THERMAL AND MOISTURE PROTECTION

REMOVE NON-HISTORIC GUTTER & DOWNSPOUTS. 7.2 REPAIR/RETAIN EXG HISTORIC CORNICE & BOX GUTTER. 7.3 REMOVE EXG MEMBRANE ROOF. CONTRACTOR TO INSPECT EXG ROOF DECKING AND REPAIR AS NEEDED.

8.1 REMOVE NON-HISTORIC WINDOW & NON-HISTORIC FRAME ENTIRELY, BACK TO MASONRY OPENING.

- 8.2 REMOVE DOOR & FRAME ENTIRELY, BACK TO MASONRY OPENING. 8.3 NEW OR EXPANDED OPENING IN EXG HISTORIC WALL. SEE NEW WORK PLANS.
- 8.4 EXG HISTORIC WINDOW AND FRAME TO REMAIN IN PLACE. REPAIR AS REO. SEE NEW WORK PLANS AND WINDOW DETAILS. 8.5 EXG HISTORIC WINDOW AND FRAME TO BE REMOVED ENTIRELY,
- BACK TO MASONRY OPG. 8.6 EXG HISTORIC WINDOW AND FRAME TO REMAIN IN PLACE, BUT TOP SASHES ARE TO BE RELOCATED TO OPPOSITE WINDOWS. WINDOW ON EAST (PRIMARY) ELEVATION IS TO BE A 1-OVER-I WINDOW, AND WINDOW ON THE NORTH ELEVATION IS TO BE A
- 6-OVER-6 WINDOW. 8.7 EXG HISTORIC DOOR/FRAME/OPG TO REMAIN IN PLACE. REPAIR AS REQ. SEE NEW WORK PLANS & DOOR TYPES/SCHEDULE FOR MORE
- INFORMATION. 8.8 EXG HISTORIC DOOR/FRAME/OPG TO BE RELOCATED. REPAIR AS REQ. SEE NEW WORK PLANS & DOOR TYPES/SCHEDULE FOR MORE
- INFORMATION. 8.9 EXG INFILL TO BE REMOVED FROM EXG WINDOW OPG, BACK TO ORIGINAL MASONRY OPG. 8.10 EXG SKYLIGHT TO BE REMOVED. SKYLIGHT CURB TO BE REPAIRED

AS REQ TO RECEIVE NEW SKYLIGHT.

9.1 HISTORIC PLASTER AT MASONRY WALL TO REMAIN, IF POSSIBLE. 9.2 REMOVE NON-HISTORIC FINISH FLOORING DOWN TO WOOD

9.3 EXG HISTORIC FLOORING TO REMAIN. SEE NEW WORK PLANS.

A. THIS PROJECT IS A NPS AND OHPO HISTORIC PRESERVATION TAX CREDIT PROJECT. **COORDINATE & CONFORM ALL WORK TO** THE APPROVED PART 2 NARRATIVE AND **AMENDMENTS. NO HISTORIC ELEMENTS** ARE TO BE REMOVED OR MODIFIED UNLESS SPECIFICALLY NOTED OTHERWISE.

> WINDOWS, AND INTERIOR TRIM REMAINS LARGELY INTACT. HISTORIC ELEMENTS (TRIM, DOORS, ETC.) TO REMAIN OR BE SALVAGED FOR REUSE. B. IF UNEXPECTED HISTORIC TRIM IS UNCOVERED DURING DEMOLITION, STOP WORK AND CONTACT ARCHITECT IMMEDIATELY FOR

THROUGHOUT THIS PROJECT, HISTORIC DOORS,

DOCUMENTATION AND POSSIBLE SHPO/NPS C. AT NEW OPENINGS AND MODIFICATIONS OF EXG K. EXG DOWNSPOUT TIE-IN LOCATIONS TO BE OPENINGS IN MASONRY AND EXTERIOR WALLS:

I. VERIFY ANY INFILL IS NON-LOADBEARING PRIOR TO DEMOLITION. 2. VERIFY CONDITION OF ANY EXG LINTELS. IF DAMAGED, CONTACT ARCHITECT AND

STRUCTURAL ENGINEER. 3. PROVIDE SHORING AS REQUIRED. 4. TOOTH OUT AND KEY IN MASONRY SO CUT BRICK IS NOT EXPOSED, EXCEPT WHERE NOTED

IN CORRIDORS. 5. EXPOSED MASONRY EDGES ARE TO BE FIRED EDGES U.N.O.

D. AT COMPLETION OF DEMOLITION, ALL FLOORS SHALL BE SWEPT BROOM CLEAN.

ADDITIONAL INFORMATION REGARDING **ELEMENTS TO BE RETAINED:**

E. IN AREAS OF NEW MASONRY OPENINGS, SALVAGE HISTORIC BRICK FOR REUSE & CAREFULLY SORT AND SEPARATE HARD-FIRED FACE BRICK FROM

BRICKS AT INTERIOR WYTHES.

F. RETAIN HISTORIC EXTERIOR ORNAMENT-CORNICES, FRIEZES, BRACKETS, ETC. G. RETAIN HISTORIC STOREFRONT ELEMENTS -

COLUMNS, LINTELS, THRESHOLDS, GLAZING, ETC. H. RETAIN HISTORIC INTERIOR WOOD TRIM -MANTLES, BASEBOARDS, CROWN MOULDING, WALL PANELS, WAINSCOTING, WINDOW FRAMES, TO SERVICE. DOOR FRAMES, ETC. AT WALLS WHERE PLASTER IS BEING REMOVED OR WHERE NEW FURRING IS

PROPOSED, CAREFULLY REMOVE & RETAIN HISTORIC TRIM. I. RETAIN HISTORIC INTERIOR AND EXTERIOR

DOORS, TRANSOMS, AND SIDELITES. BRICK MOULD AND SHUTTER HARDWARE. REUSED, UNO. CLEAR OF DEBRIS & REPAIR AS REQ.

REMOVE THE FOLLOWING, UNLESS NOTED

OTHERWISE: L. FURNITURE & DEBRIS, INTERIOR & EXTERIOR, ALL FLOOR LEVELS, INCLUDING BASEMENT & ATTIC.

M. SUSPENDED ACOUSTICAL CEILINGS. N. NON-HISTORIC DOORS & DOOR FRAMES (SHOWN

DASHED). O. NON-HISTORIC STAIRS (SHOWN DASHED). P. PLASTER & LATH: REFER TO HISTORIC NARRATIVES FOR SPECIFIC GUIDELINES FOR PLASTER REPAIR, WHEN REQ. FOLLOW THESE GUIDELINES FOR THE REMOVAL OR RETENTION OF PLASTER AND LATH, UNO. RETAIN AND REPAIR PLASTER AT HISTORIC INTERIOR WALLS TO REMAIN. REMOVE LOOSE OR DETERIORATED PLASTER AT MASONRY WALLS. Q. ROOFING DOWN TO EXG. SUBSTRATE, U.N.O. REPLACE DAMAGED/DETERIORATED SUBSTRATE AS R. DETERIORATED WOOD SUBFLOOR: REPLACE WITH NEW PLYWOOD SUBFLOOR, SEE PROPOSED.

S. NON-HISTORIC CABINETRY. T. NON-HISTORIC WALL FINISHES, INCLUDING PANELING AND WALLCOVERING.

DRAINS, PIPING, VENT STACKS, ETC. BACK TO

U. MECHANICAL SYSTEMS - BOILERS, FURNACES, CONDENSERS, DUCTS, VENTS, PANELS, ETC. BACK

V. ELECTRIC SYSTEMS - FIXTURES, SWITCHES, RECEPTACLES, WIRING, PANELS, ETC. BACK TO W.PLUMBING SYSTEMS - FIXTURES, WATER HEATERS,

SERVICE. . RETAIN HISTORIC WOOD WINDOW SASH, FRAMES, X. NON-HISTORIC DOWNSPOUTS & ALUMINUM GUTTERS, GUTTERBOARDS. Y. NON-HISTORIC VINYL AND ALUMINUM WINDOWS.

Z. VEGETATION.

RETAIN HISTORIC WOOD FRAMES & BRICKMOLD.

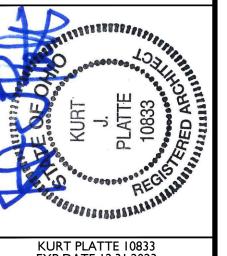
KEYNOTE EXG EXTERIOR WALL TO REMAIN **EXG INTERIOR WALL** TO REMAIN _ _ _ _ EXG WALL/ELEMENT

— — — TO BE REMOVED

EXG DOOR & FRAME TO BE REMOVED

EXG WINDOW TO BE REMOVED

EXG FLOOR OR WALL CONSTRUCTION TO BE REMOVED

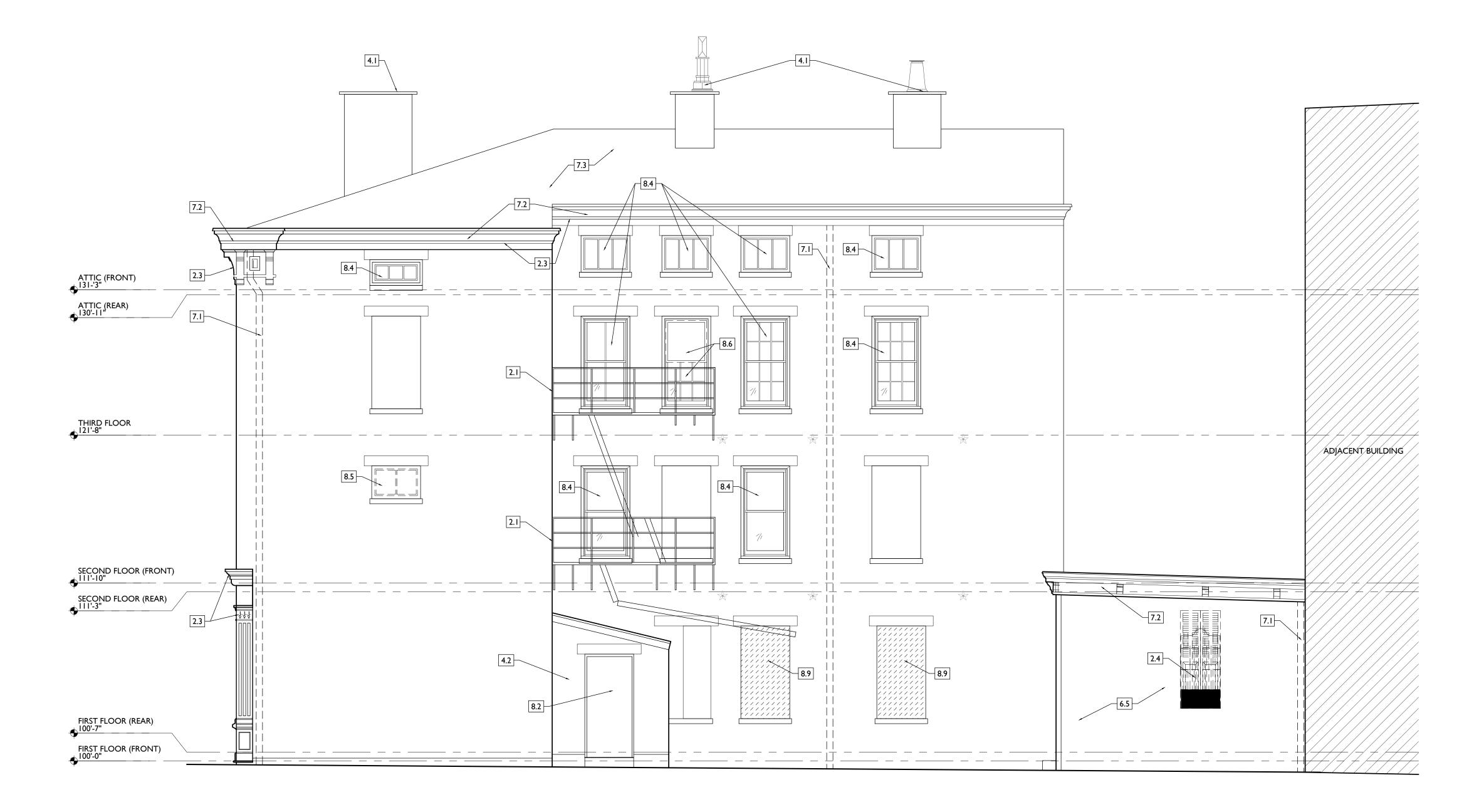


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Revisions

Design Team:
CO, JK, MR, MR, RK, RO, SO, TB
Drawn by:
MR, AM

STREET



GENERAL NOTES:

I. CONTRACTOR TO VERIFY ALL DIMENSIONS AND INFORMATION IN THESE DRAWINGS.

2. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS, INCLUDING SITE CONDITIONS. ALL ERRORS, OMISSIONS, AND INCONSISTENCIES ARE TO BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. FAILURE TO DO SO WILL RELEASE THE ARCHITECT OF ALL RESPONSIBILITY. ANY CHANGES FROM THESE DOCUMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. THESE DRAWINGS ARE NOT TO BE SCALED. IF INSUFFICIENT INFORMATION EXISTS, CONTACT THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK, EACH CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS AS MAY EFFECT HIS OWN WORK, DESIGN/BUILD OR OTHERWISE.

3. BEST MANAGEMENT PRACTICES SHALL BE USED BY THE CONTRACTOR DURING DEMOLITION TO PREVENT RELEASE OF LEAD-CONTAMINATED DUST SHALL BE EMITTED FROM DEMOLITION ACTIVITIES. ALL PAINT CHIPS AND OTHER DEBRIS OR RESIDUE SHALL BE REMOVED FROM THE PROJECT SITE AT THE COMPLETION OF DEMOLITION. STORAGE AND TRANSPORT OF MATERIALS KNOWN OR ASSUMED TO CONTAIN LEAD BASED PAINT SHALL BE COVERED TO PREVENT ACCESS TO OR RELEASE OF LEAD-CONTAMINATED DUST OR DEBRIS.

4. IT SHALL BE THE RESPONSIBILITY OF THE BUILDING OWNER TO SUPERVISE CONSTRUCTION AND INSURE THAT THESE DRAWINGS ARE COMPLIED WITH IN THE EVENT THAT THIS ARCHITECT IS NOT RETAINED FOR SUCH SERVICES.

5. ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODES, ORDINANCES AND REGULATIONS, INCLUDING THE AMERICANS WITH DISABILITIES ACT, HAVING AUTHORITY BEARING ON THE PERFORMANCE OF THE WORK, AND SHALL BE DONE TO THE HIGHEST STANDARDS OF CRAFTSMANSHIP BY EACH RESPECTIVE

6. GUARANTEES SHALL BE REQUIRED OF ALL BRANCHES OF THE WORK. CONTRACTORS TO REMEDY ANY DEFECTS IN THEIR WORK AND PAY FOR ANY RESULTANT DAMAGES TO OTHER WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE.

7. CONTRACTOR SHALL SUPERVISE THE WORK DURING PROGRESS AND SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION SAFETY; COMPLIANCE TO BE IN ACCORDANCE WITH ALL STATE, FEDERAL AND O.S.H.A. REGULATIONS.

8. CONTRACTOR AND ALL SUB-CONTRACTORS SHALL MAINTAIN THE JOB CLEAR OF TRASH AND DEBRIS. ALL WASTE MATERIAL, TOOLS, CONSTRUCTION EQUIPMENT AND SURPLUS MATERIAL SHALL BE REMOVED FROM THE SITE PRIOR TO SUBSTANTIAL COMPLETION AND FINAL ACCEPTANCE.

9. CONTRACTOR SHALL PRESENT THE PROJECT TO THE OWNER FOR ACCEPTANCE, CLEAN AND READY FOR USE. ALL GLASS TO BE CLEANED, FLOORS SWEPT BROOM CLEAN, FIXTURES WASHED AND LABELS REMOVED FROM

10. ANY CONTRACTOR OF SUBCONTRACTOR WHO PERFORMS ANY WORK KNOWING IT TO BE CONTRARY TO APPLICABLE LAWS, ORDINANCES OR REGULATION, AND WITHOUT WRITTEN NOTICE TO THE ARCHITECT SHALL ASSUME FULL RESPONSIBILITY AND SHALL BEAR ALL ATTRIBUTABLE COSTS.

II. IN THE EVENT OF ANY CONFLICT BETWEEN ARCHITECTURAL DRAWINGS OR SPECIFICATIONS AND STRUCTURAL DRAWINGS OR SPECIFICATIONS, STRUCTURAL SHALL GOVERN.

12. PROJECT IS TO RECEIVE HISTORIC TAX CREDITS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE WELL VERSED IN THE APPROVED PART 2 AND SUBSEQUENT AMENDMENTS, AND TO INFORM SUBCONTRACTORS OF ANY CHANGES /APPROVALS DURING THE BIDDING AND THE CONSTRUCTION PHASES.

GENERAL NOTES: ALL TRADES

I. FURNISH ALL LABOR, MATERIAL AND APPURTENANCES NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM AS SHOWN OR REQUIRED.

2. ALL WORK SHALL CONFORM TO APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. EACH CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, TESTS AND INSPECTIONS FOR HIS OWN WORK AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.

3. PERFORM ALL TESTS, ADJUSTMENTS, ETC. AS REQUIRED BY EQUIPMENT MANUFACTURER OR AUTHORITIES HAVING JURISDICTION.

4. CONTRACTORS SHALL VISIT SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS AS MAY EFFECT HIS OWN WORK, EACH CONTRACTOR SHALL COORDINATE HIS OWN WORK WITH THAT OF OTHER TRADES. 5. EACH CONTRACTOR SHALL FURNISH ALL CUTTING AND PATCHING REQUIRED FOR HIS OWN WORK. NO CUTTING SHALL BE PERFORMED WITHOUT PRIOR APPROVAL OF GENERAL CONTRACTOR.

6. WORKMANSHIP SHALL REPRESENT THE HIGHEST STANDARD OF THE INDUSTRY. GUARANTEE ALL MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE.

GENERAL CONDITIONS

CONTRACT DOCUMENTS: INCLUDE THESE GENERAL CONDITIONS FOR CONSTRUCTION, DRAWINGS, SCHEDULES, AND SPECIFICATIONS PREPARED BY THE ARCHITECT AND CONTAINED HEREIN, AND ALL WRITTEN ADDENDA OR OTHER MODIFICATIONS ISSUED SUBSEQUENTLY BY THE ARCHITECT. THE CONTRACT DOCUMENTS SHALL NOT BE CONSTRUED TO CREATE ANY CONTRACTUAL RELATIONSHIP OF ANY KIND BETWEEN THE ARCHITECT AND THE CONTRACTOR.

CONTRACT MODIFICATIONS: THESE CONTRACT

DOCUMENTS SHALL NOT BE FURTHER MODIFIED BY ANY TERMS OR CONDITIONS OTHER THAN THOSE LISTED HEREIN OR IN THE SPECIFICATIONS, OR IN ANY WRITTEN AGREEMENTS EXECUTED BY THE OWNER, CONTRACTOR AND SUBCONTRACTORS.

NOTES WRITTEN IN THE IMPERATIVE MOOD REFER TO ACTION TO BE PERFORMED BY THE CONTRACTOR. THE WORDS "THE CONTRACTOR SHALL" ARE ALWAYS IMPLIED. IF NOT STATED, UNLESS OTHERWISE NOTED. THE TERM "CONTRACTOR" SHALL ALSO APPLY TO ALL SUBCONTRACTORS OF THE CONTRACTOR.

THE CURRENT EDITION OF AIA DOCUMENT A101 SHALL BE THE FORM OF AGREEMENT TO BE SIGNED BY THE OWNER AND GENERAL CONTRACTOR, UNLESS THE OWNER AND CONTRACTOR MUTUALLY AGREE OTHERWISE, GENERAL CONDITIONS CONTAINED IN AIA DOCUMENT A201 SHALL

BEST MANAGEMENT PRACTICES SHALL BE EMPLOYED TO CONTROL EROSION DURING CONSTRUCTION AND UNTIL FINAL COVER IS ESTABLISHED.

THE CONTRACTOR SHALL BE NOTIFIED, BOTH VERBALLY AND THROUGH NOTATIONS ON THE FINAL CONST. DWG, THAT WORK SHALL BE HALTED AT A LOT IF INDICATORS OF CONTAMINATION (FILL OTHER THAN "CLEAN FILL", DISCOLORED SOILS OR CHEMICAL/ PETROLEUM ODORS) ARE IDENTIFIED DURING CONST. TO ALLOW FOR A QUALIFIED ENVIRONMENTAL PROFESSIONAL TO INSPECT THE LOT AND MAKE RECOMMENDATIONS REGARDING APPROPRIATE ACTIONS.

ANY WATER WELLS OR SEPTIC SYSTEMS IDENTIFIED DURING SITE DEVELOPMENT SHALL BE ABANDONED AS REQUIRED BY OAC 3745-9-10 OR 3701-29-21, AS APPLICABLE, AND AFTER CONSULTATION W/ THE LOCAL HEALTH DEPARTMENT.

DEFINITIONS:

"CONTRACTOR": THE PERSON OR ENTITY CONSTRUCTING THE DESIGNATED WORK.

"OWNER": THE PERSON OR ENTITY THAT OWNS THE BUILDING BEING RENOVATED. THE TERM "OWNER" INCLUDES HIS DESIGNATED AND AUTHORIZED AGENTS AND REPRESENTATIVES.

"WORK": THE TERM "WORK" MEANS OBLIGATIONS UNDERTAKEN BY THE CONTRACTOR PURSUANT TO THE CONTRACT DOCUMENTS. WORK INCLUDES THE FURNISHING OF ALL MATERIAL, LABOR, EQUIPMENT, SUPPLIES, TOOLS, SCAFFOLDING, SUPERVISION, TRANSPORTATION, INSURANCE, TAXES AND ALL OTHER SERVICES, INCIDENTALS AND EXPENSES NECESSARY FOR THE FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

"PROJECT": THE PROJECT IS THE TOTAL CONSTRUCTION OF WHICH THE WORK PERFORMED UNDER THE CONTRACT DOCUMENTS MAY BE THE WHOLE OR A PART.

"CONTRACT DOCUMENTS": THE INTENT OF THE CONTRACT DOCUMENTS IS TO INCLUDE ALL ITEMS REQUIRED FOR COMPLETION OF THE WORK, INCLUDING RAWINGS AND SPECIFICATIONS. ALTHOUGH THE CONTRACT DOCUMENTS HAVE BEEN PREPARED WITH DUE CARE AND DILIGENCE, PERFECTION CANNOT BE GUARANTEED. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF THE VARIOUS PARTS OF THE WORK SO THAT NO PART SHALL BE IN AN UNFINISHED OR INCOMPLETE CONDITION.

DRAWINGS PREPARED BY OTHERS:

ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DWGS SHALL BE WORKED TOGETHER, INCLUDING THE LOCATION OF DEPRESSED SLABS, SLOPES, DRAINS, REGLETS, BOLT SETTINGS, ETC. ANY DISCREPANCY SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

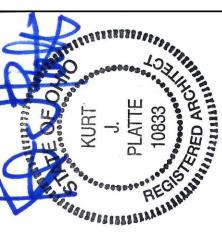
SHOP DWGS PREPARED BY OTHER CONTRACTORS MAY BE REQUIRED TO SUPPLEMENT THE CONTRACT DOCUMENTS. SUCH DWGS ARE FURNISHED FOR THE CONTRACTOR'S INFORMATION AND COORDINATION ONLY.

GENERAL NOTES: PROPOSED WORK

- A. THIS IS A HISTORIC TAX CREDIT PROJECT. WORK MUST COMPLY W/ APPROVED PART 2, NCLUDING AMENDMENTS
- B. NO HISTORIC ELEMENTS SHALL BE REMOVED/MODIFIED UNLESS SPECIFICALLY INDICATED
- IN ARCH PLANS. REPAIR OR REPLACE EXG DAMAGED OR DETERIORATED FLOOR FRAMING &/OR WOOD
- SUBFLOOR PER STRUCT DWGS. HISTORIC TRIM TO BE RETAINED, U.N.O. SEE DEMO & PROPOSED PLANS.
- E. RETAIN ANY REMAINING HISTORIC WOOD WINDOW SASH, FRAMES, BRICKMOLD & SHUTTER HARDWARE, U.N.O. SEE DEMO & EXTERIOR ELEVATIONS. REPAIR MATERIALS THAT ARE DETERIORATED OR HAVE MOISTURE/FIRE DAMAGE AS REQ. IF
- DAMAGE IS SEVERE AND HISTORIC ELEMENTS ARE NON-SALVAGEABLE, COORDINATE REPLACEMENT ELEMENTS WITH ARCHITECT.
- G. SEE CODE SHEETS FOR ROOF/FLOOR/CEILING ASSEMBLY LOCATIONS & PARTITION SCHEDULE FOR TYPES.
- H. PENETRATIONS OF RATED ASSEMBLIES TO BE PROTECTED PER SECTION 713.3 & 713.4 OBC.
- COORD W/ MEP DWGS.
- PROVIDE FIRE BLOCKING PER 717.2 OBC. PROVIDE DRAFTSTOPPING IN FLOORS, CLGS/ROOFS & ATTICS PER OBC.
- PROVIDE BLOCKING FOR SHELVING, CABINETS AND BATHROOM ACCESSORIES AND GRAB BARS. SEE PLANS AND INTERIOR ELEVATIONS. USE PRESSURE TREATED WOOD IN THE FOLLOWING LOCATIONS:
- EXTERIOR APPLICATIONS. - IN BASEMENTS. - WOOD IN CONTACT WITH MASONRY, STONE, OR CONCRETE.
- AT ANY NEW FRAMING IN CONTACT W/ MASONRY OR FOUNDATION WALL, PROVIDE SEPARATION/ JOIST & BEAM END WRAPS.
- EXTERIOR TRIM, SOFFITS, CORNICE AND STOREFRONT ELEMENTS TO BE REPAIRED/RETAINED/REPLACED AND PAINTED AS NOTED IN DRAWINGS. EXG. UN-PAINTED BRICK AND STONE TO REMAIN UNPAINTED. SEE EXTERIOR ELEVATIONS FOR SCOPE OF WORK. COORD COLORS DIRECTLY W/ ARCHITECT.
- AF. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR LOCATION AND CONNECTIONS OF ALL MEP EQUIPMENT.
- AG. PROVIDE SLEEVES THROUGH EXG. BRICK WALL IN ATTIC AS REQUIRED FOR HVAC LINE-SET INSTALLATION. AH. ADDITIONAL OPENINGS IN EXTERIOR WALLS WILL BE REQUIRED FOR VARIOUS MEP
- DUCTS/PIPES/ETC, AND ARE NOT SHOWN ON ARCH & STRUCT PLANS. COORD W/ MEP PLANS. CONTACT ARCHITECT FOR PLACEMENT. AI. PROVIDE FIRE EXTINGUISHERS PER CODE SUMMARY & NFPA REQS. COORD W/ FIRE
- AJ. FASTENERS INTO EXISTING HISTORIC MASONRY WALLS ARE TO BE FASTENED INTO MORTAR JOINTS.
- AK. EXTERIOR STEEL TO BE DUPLEX-FINISH (GALVANIZED, WITH HIGH-PERFORMANCE COMPATIBLE EPOXY PAINT).
- AL. REPAIR & RESEAL AROUND EXG. CHIMNEYS, TYP. AS REQ. PROVIDE NEW ALUM CAP, TYP. AM. EXTERIOR WOOD TO BE PRESSURE TREATED AN. WHERE INFILLING EXISTING OPENINGS IN, OR EXTENDING THE LENGTH OF AN EXISTING
- WITH ADJACENT EXISTING FINISH FACES ON BOTH SIDES. AO. SHEET METAL WORK TO COMPLY WITH SMACNA ARCHITECTURAL SHEET METAL MANUAL. AP. FLASH AND SEAL NEW ROOF PENETRATIONS THROUGH EXISTING ROOF, EMPLOY INSTALLERS ACCEPTABLE TO EXISTING ROOF MANUFACTURER AND COMPLY WITH EXISTING ROOF MANUFACTURER REQUIREMENTS TO MAINTAIN EXISTING ROOF

WOOD FRAMED PARTITION, FINISH FACES OF THE NEW CONSTRUCTION ARE TO ALIGN

- WARRANTY. AQ. BASEMENTS TO BE TESTED FOR RADON EXPOSURE. PROVIDE VAPOR MITIGATION SYSTEM BELOW BASEMENT SLAB AS REQUIRED. CONNECT TO VERTICAL VENTS INDICATED IN
- FLOOR PLANS. AR. MASONRY WORK: REFER TO PART 2 SHPO NARRATIVES AND STRUCTURAL DRAWINGS FOR FULL EXTENT AND SCOPE FOR MASONRY CLEANING, TUCK-POINTING, REPAIR, REPLACEMENT, AND PAINTING.
- AS. MASONRY CLEANING: CONTRACTOR SHALL PERFORM MASONRY CLEANING WORK IN ACCORDANCE WITH PRESERVATION BRIEF 6 - "DANGERS OF ABRASIVE CLEANING TO HISTORIC BUILDINGS." CONTRACTOR SHALL CLEAN EXISTING MASONRY THROUGHOUT USING THE GENTLEST MEANS POSSIBLE AND SHALL START EACH NEW METHOD OF CLEANING (E.G. BY BRUSH, WITH DETERGENT, WITH WATER PRESSURE, ETC.) IN DISCRETE AREA OF EACH WALL. CONTRACTOR SHALL BEGIN BY CLEANING WITH WATER AND NATURAL BRISTLE BRUSHES. CONTRACTOR SHALL THEN CLEAN ANY AREAS THAT REQUIRE FURTHER CLEANING USING NON-ABRASIVE, NON-ACIDIC DETERGENTS WITH NATURAL BRISTLE BRUSHES. CONTRACTOR SHALL THEN CLEAN ANY AREAS THAT REQUIRE FURTHER CLEANING USING NON-ABRASIVE, NON-ACIDIC DETERMENTS WITH LOW PRESSURE WATER (STARTING AT 20 PSI AT TIP). UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR USE PRESSURE WASHING WITH GREATER THAN 40 PSI AT TIP. CLEANING SHALL BE PERFORMED EVENLY THROUGHOUT THE ENTIRETY OF EACH WALL. WALLS WHERE STUCCO / PARGING IS TO REMAIN SHALL NOT BE CLEANED WITH PRESSURE WASHING. REMOVE EXISTING LOOSE STUCCO / PARGING BY HAND WITH BRUSHES. PRESERVATION BRIEF 6 - "DANGERS OF ABRASIVE CLEANING TO HISTORIC BUILDINGS: HTTPS://WWW.NPS.GOV/TPS/HOW-TO-PRESERVE/BRIEFS/6-DANGERS-ABRASIVE-CLEANING.HTM
- AT. PARGING: CONTRACTOR TO TEST AND ASSESS THE INTEGRITY OF EXISTING STUCCO / PARGING ON EXISTING MASONRY WALLS. ANY STUCCO / PARGING TO REMAIN MUST BE SECURELY HELD TO EXISTING MASONRY WALL. ANY STUCCO / PARGING THAT IS NOT SECURELY HELD TO MASONRY WALL SHALL BE REMOVED THROUGH GENTLEST MEANS POSSIBLE (SEE MASONRY CLEANING ABOVE). NEW STUCCO / PARGING SHALL BE INSTALLED WHERE EXISTING STUCCO / PARGING HAS BEEN REMOVED, AND AS INDICATED ON THE DRAWINGS, INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S HIGHEST RECOMMENDATIONS USING ALL ASSOCIATED COMPONENTS FOR FLASHING, PENETRATIONS, ETC. STUCCO / PARGING SHALL BE INSTALLED ON MASONRY JAMB SURFACES OF NEW DOOR AND WINDOWS OPENINGS UP TO THE WINDOW / DOOR UNIT. NEW STUCCO/ PARGING SHALL MATCH EXISTING IN TEXTURE AND COLOR. NEW STUCCO / PARGING SHALL BE A THREE-COAT SYSTEM (SCRATCH COAT, BROWN COAT AND FINISH COAT) WITH A GLASS FIBER REINFORCED LATH. BASIS-OF-DESIGN IS "SENERGY" BRAND, "SENERGY SENTRY STUCCO WALL SYSTEM PERMALATH 1000" WITH PRE-MIXED "SENTRY STUCCO BASE" AND "SENERLASTIC" FINISH COAT WITH TEXTURE TO MATCH EXISTING. CONTROL JOINTS TO BE ALIGNED WITH OPENINGS.
- AU. GYPSUM BOARD: SEE PARTITION SCHEDULE. MOLD & MOISTURE RESISTANT GYPSUM BOARD IN ALL WET AREAS - RESTROOMS, KITCHENS, LAUNDRY, BASEMENTS.
- AV. STORM WINDOWS: FRAME WIDTH CANNOT REDUCE THE DAYLIGHT OPENING OF THE WINDOW & THE CENTER CHECK RAIL MUST ALIGN WITH THE WINDOW CENTER CHECK RAIL. NO SCREENS.
- AW.PROVIDE UNIT ENTRY SIGNAGE PER FINISH SCHEDULE AT EACH RESIDENTIAL UNIT ENTRY. FINAL LOCATION TO BE DETERMINED BY OWNER. IF MOUNTING ON DOOR, ENSURE INSTALLATION DOES NOT VOID RATING OF DOOR ASSEMBLY.
- AX. PROVIDE BLINDS AT RESIDENTIAL UNITS PER FINISH SCHEDULE. QUANTITY AND LOCATIONS BY OWNER.



EXP DATE 12.31.2023

Progress Dates 2023.04.28 - BID/PERMIT

Revisions

MR, AM

CO, JK, MR, MR, RK, RO, SO, TB Drawn by:

0 ∞

ALL KEYED NOTES LISTED MAY NOT APPLY TO THIS SHEET.

3. CONCRETE

3.1 NEW CONCRETE SLAB. SLOPE TO DRAIN, AND CONNECT FLOOR DRAINS SEWER. SEE STRUCTURAL DRAWINGS. 3.2 VAPOR MITIGATION SYSTEM BELOW SLAB, AS REQUIRED BY OWNER'S CONSULTANT. SEE CONSULTANT DESIGN FOR SYSTEM DETAILS AND LOCATIONS OF VERTICAL VENTS. SEE

B.3 EXG OPG IN BASEMENT TO BE INFILLED. SEE STRUCTURAL DWGS. 7.4 NEW FULLY ADHERED WHITE TPO MEMBRANE ROOF W/ 3.4 INFILL PREVIOUS BASEMENT HATCH. COORDINATE EXTERIOR PAVEMENT/GRADING WORK WITH CIVIL.

4.1 TUCKPOINT BRICK AS SHOWN ON STRUCTURAL ELEVATIONS & PER SHPO NARRATIVE.

4.2 REPLACE DAMAGED/MISSING BRICK AS SHOWN ON STRUCTURAL ELEVATIONS & PER SHPO NARRATIVE.

4.3 OPENING TO BE INFILLED WITH CMU AT INTERIOR AND BRICK 7.7 NEW STANDING SEAM METAL ROOF. COLOR TBD. SEE ROOF AT EXTERIOR. BRICK IS TO MATCH EXG ADJACENT HISTORIC BRICK IN SIZE, TEXTURE, AND APPEARANCE. FACE OF BRICK IN OPG IS TO BE SET BACK I" FROM FACE OF EXG WALL. SEE

4.4 REPAIR EXG MASONRY STRUCTURE/ADDITION AS REQ. SEE STRUCTURAL DWGS.

5.I NEW CONTINUOUS STEEL PIPE HANDRAIL. SEE DETAILS. 5.2 NEW STEEL PIPE GUARDRAIL. SEE DETAILS.

5.4 NEW STEEL STRUCTURAL MEMBERS. SEE STRUCTURAL DWGS.

6. WOOD, PLASTICS, AND COMPOSITES 6.1 REPAIR DAMAGED WOOD STAIR TREADS/RISERS AS REQ'D.

ELEVATIONS.

6.2 NEW RAKE TRIM & GUTTERBOARD TO MATCH EXISTING - SEE 9. FINISHES 6.3 REPAIR/RETAIN EXG CORNICE. REPAINT.

6.4 REPAIR/REPLACE EXG WOOD SIDING AS REQ. REPLACEMENT 9.2 FIRE-RATING TO BE CONTINUOUS BEHIND PLUMBING/CHASE/ SIDING IS TO MATCH EXG WOOD SIDING IN SIZE AND PROFILE. 6.5 NEW FRAMING/SHEATHING/DECKING IN THIS AREA. SEE

STRUCTURAL DWGS. 9.4 REFINISHED HISTORIC HARDWOOD FLOORING. .6 NEW WOOD STRUCTURAL MEMBERS. SEE STRUCTURAL DWGS.

7. THERMAL AND MOISTURE PROTECTION 7.1 REPAIR/RE-LINE EXG BOX GUTTER. 7.2 NEW ROUND ALUMINUM DOWNSPOUT PAINTED TO MATCH

EXISTING SEWER SYSTEM. DOWNSPOUT. CRICKETS WHERE REQUIRED FOR POSITIVE DRAINAGE AND W/ TERMINATION BARS & METAL COUNTERFLASHING - SEE ROOF DETAILS. INSULATION PER SCHEDULE. B.O.D - 60 MIL WHITE TPO. 10.4 PROVIDE "NO SMOKING" SIGN AT EXTERIOR WALL. FULLY ADHERED ROOF SYSTEM, 20 YEAR WARRANTY, BY

CARLISLE SYNTEC, CARLISLE, PA, OR EQUIVALENT. 7.5 NEW ROOF ACCESS HATCH. INSTALL PER MANUF'S INSTRUCTS. BASIS OF DESIGN = BILCO E50TB, 48"X48". 7.6 PROVIDE NEW DARK BRONZE METAL CAP AT CHIMNEY.

DETAILS. INSULATION PER SCHEDULE.

8.1 NEW SKYLIGHT IN PREVIOUS SKYLIGHT OPG. B.O.D. VELUX

IN FIELD. COORDINATE FINISH WITH ARCHITECT. 8.2 NEW EXTERIOR BUILDING ENTRY DOOR AND FRAME - SEE DOOR SCHEDULE.

8.3 NEW DOOR IN EXISTING HISTORIC FRAME/TRANSOM. FIRE

RATING TO REMAIN CONTINUOUS BEHIND TRANSOM. SEE

10. SPECIALTIES

10.1 LOCKABLE & RECESSED MAILBOXES. BOXES TO MEET USPS-4C 23. HEATING, VENTILATING, AND AIR CONDITIONING STANDARDS & ACCESSIBILITY REQUIREMENTS. PROVIDE CONT 23.1 MECHANICAL UNIT(S) - WALKING PADS TO & AROUND FIRE-RATING BEHIND MAILBOXES, WHEN REQ.

8.5 RELOCATED HISTORIC WINDOW. SEE WINDOW TYPES AND

9.1 EXG PLASTER AT MASONRY WALL TO BE PATCHED AND

FURRING WALL. FIRE RATING TO BE CONTINUOUS AT

ADJACENT WALL SURFACE. SEE EXTERIOR ELEVATIONS. TIE INTO 10.2 SURFACE MOUNTED ENTRY SECURITY SYSTEM CALL BOX BY SECURITY CONTRACTOR. MELAMINE SHELF & CLOTHES ROD @ 66" A.F.F.; TYP U.N.O.:

A. TYP. REACH-IN CLOSET B. WALK-IN CLOSET.

DOOR SCHEDULE AND DETAILS.

REPAIRED, WHERE POSSIBLE.

9.3 NEW HARDWOOD FLOORING.

INTERSECTION W/ NON-RATED WALL.

C. ABOVE W/D. 10.5 FIRE EXTINGUISHER. COORDINATE FINAL LOCATION WITH LOCAL FIRE MARSHAL.

A. SURFACE MOUNTED. B. IN SINK CABINET IN RESIDENTIAL UNIT, TYPICAL.

10.6 PROVIDE DRAIN PAN BENEATH WASHING MACHINE/ WATER 26.3 NEW MAST HEAD. SEE ELECTRICAL DWGS. HEATER. SEE PLUMBING DWGS. 10.7 NEW RECESSED MEDICINE CABINET. SEE ENLARGED PLANS,

INTERIOR ELEVATIONS AND FINISH SCHEDULE. 10.8 SHOWER NICHE. SEE ENLARGED PLANS, INTERIOR ELEVATIONS AND DETAIL I/A5.00.

SINGLE LITE ALUMINUM CLAD SKYLIGHT. VERIFY EXG OPG SIZE 10.9 RECESSED KEY LOCK BOX - BASIS OF DESIGN KNOXBOX 3200. INSTALL PER MANUF'S INSTRUCTS. COORDINATE WITH FIRE

21. FIRE SUPPRESSION

21.1 APPROX LOCATION OF FDC CONNECTION - COORDINATE W/

NEW WORK PLANS & ELEVATIONS # KEYED NOTES:

8.4 RELOCATED HISTORIC DOOR/OPG. SEE DOOR SCHEDULE.

21.2 SPRINKLER RISER. SEE PLUMBING DWGS. 21.3 EXTERIOR TAMPER/FLOW NOTIFICATION DEVICE - COORDINATE WITH ELECTRICAL AND FIRE PROTECTION SYSTEMS.

22.1 PROVIDE PIPE IN WALL FRAMING FOR VAPOR MITIGATION RISER, AS REQUIRED BY OWNER'S CONSULTANT. RISER TO EXTEND FROM BASEMENT TO ATTIC. SEE CONSULTANT DESIGN FOR LOCATIONS OF RISERS. SEE NOTE 3.2. COORDINATE WITH

22.2 PLUMBING CHASE (OR WALL) - VERIFY LOCATIONS IN FIELD TO ALIGN CONCEALMENT BETWEEN FLOORS.

22.3 HOSEBIB LOCATION. SEE PLUMBING DRAWINGS.

EQUIPMENT. GUARDRAIL REQUIRED IF EQUIPMENT < 10' FROM ROOF EDGE. SEE HVAC & STRUCTURAL DWGS. A. ROOF <3:12, INSTALL C.U. ON SOUND ISOLATING PADS

7.3 NEW PVC AT LOWER 6' OF DOWNSPOUT. PAINT TO MATCH 10.3 CLOSETS W/ BLOCKING AT RODS & BRACKETS. PROVIDE 12" 23.2 NEW EXHAUST/INTAKE LOUVERS ON EXTERIOR WALL. LOUVERS TO BE PAINTED TO MATCH ADJACENT BRICK. SEE ELEVATIONS AND MECHANICAL DWGS.

26.1 ELECTRIC PANEL RECESSED IN WALL W/ 30"W X 36"D CLEAR IN FRONT. PAINT TO MATCH ADJACENT WALL W APPROPRIATE PAINT TYPE FOR PANEL.

26.2 NEW EXTERIOR LIGHTING. NO EXPOSED CONDUIT ON FACE OF

BUILDING.

NEW FLOOR & FRAMING TO MATCH NEW GYP BD SOFFIT/ BULKHEAD/ OPG CONTAINS TEMPERED GLAZING. SINGLE HUNG OPG - UPPER SASH TO BE FIXED WITHIN 3'-0" OF EXHAUST.

NEW WORK GRAPHIC KEY:

NEW PARTITION WALL.

NEW MASONRY WALL.

ADJ - SEE STRUCT DWGS.

DROPPED CLG - SEE RCPS.

WINDOW DESIGNATION.

EMERGENCY EGRESS EXIT.

STOREFRONT DESIGNATION.

ASSEMBLY ABOVE.

100A DOOR TAG. SEE SCHEDULE.

AREA OF ATYPICAL FIRE-RATED

OBJECT OVERHEAD.

4 KEYNOTE.

— IHR — I-HR FIRE RATING.

— 2HR — 2-HR FIRE RATING.

X'-X" ELEVATION TAG.

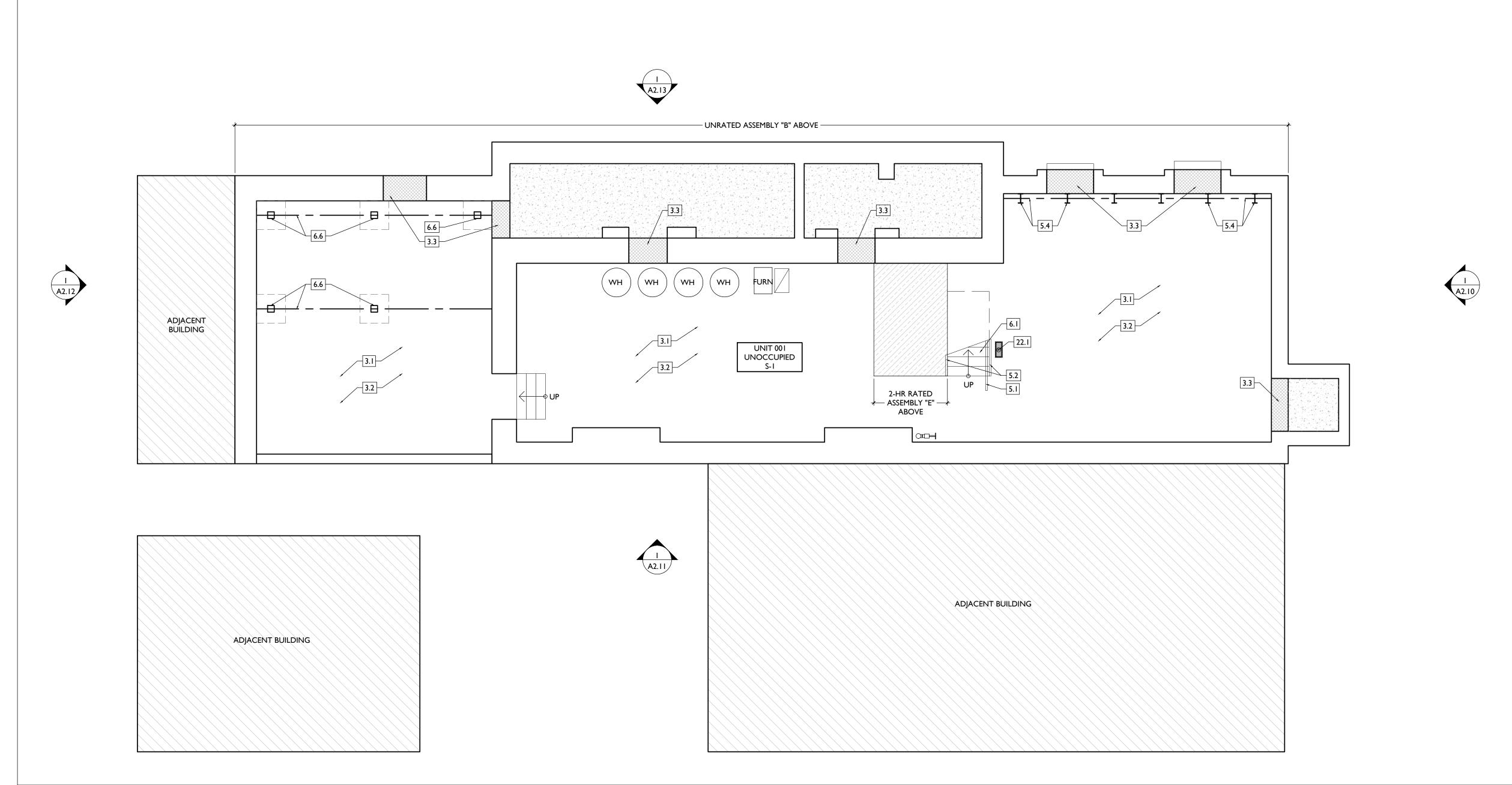
PARTITION TYPE - TYPE I U.N.O.

EXP DATE 12.31.2023 Progress Dates 2023.04.28 - BID/PERMIT

Design Team: CO, JK, MR, MR, RK, RO, SO, TB Drawn by: MR, AM

STREET

04/28/2023 Job No: 22042



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5.I NEW CONTINUOUS STEEL PIPE HANDRAIL. SEE DETAILS. 5.2 NEW STEEL PIPE GUARDRAIL. SEE DETAILS.

- 5.3 REPAIR/RETAIN EXG FIRE ESCAPE. PAINT BLACK. 5.4 NEW STEEL STRUCTURAL MEMBERS. SEE STRUCTURAL DWGS.
- 6. WOOD, PLASTICS, AND COMPOSITES
- 6.1 REPAIR DAMAGED WOOD STAIR TREADS/RISERS AS REQ'D.
- 6.2 NEW RAKE TRIM & GUTTERBOARD TO MATCH EXISTING SEE 9. FINISHES ELEVATIONS. 6.3 REPAIR/RETAIN EXG CORNICE. REPAINT.
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- STRUCTURAL DWGS. .6 NEW WOOD STRUCTURAL MEMBERS. SEE STRUCTURAL DWGS.

7. THERMAL AND MOISTURE PROTECTION

- 7.1 REPAIR/RE-LINE EXG BOX GUTTER. 7.2 NEW ROUND ALUMINUM DOWNSPOUT PAINTED TO MATCH EXISTING SEWER SYSTEM.
- DOWNSPOUT. CRICKETS WHERE REQUIRED FOR POSITIVE DRAINAGE AND W/ TERMINATION BARS & METAL COUNTERFLASHING - SEE ROOF DETAILS. INSULATION PER SCHEDULE. B.O.D - 60 MIL WHITE TPO. 10.4 PROVIDE "NO SMOKING" SIGN AT EXTERIOR WALL. FULLY ADHERED ROOF SYSTEM, 20 YEAR WARRANTY, BY CARLISLE SYNTEC, CARLISLE, PA, OR EQUIVALENT.
- 7.5 NEW ROOF ACCESS HATCH. INSTALL PER MANUF'S INSTRUCTS. BASIS OF DESIGN = BILCO E50TB, 48"X48". 7.6 PROVIDE NEW DARK BRONZE METAL CAP AT CHIMNEY.

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NEW WORK PLANS & ELEVATIONS # KEYED NOTES:

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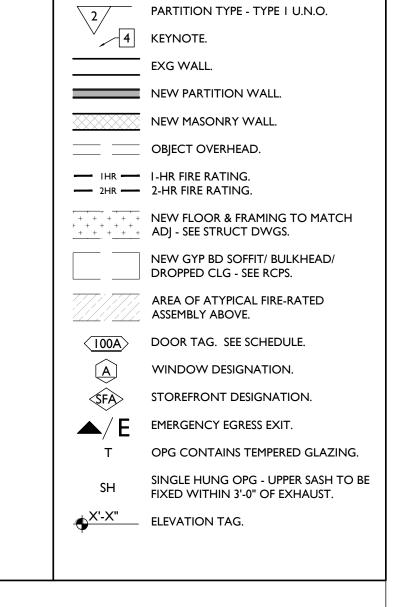
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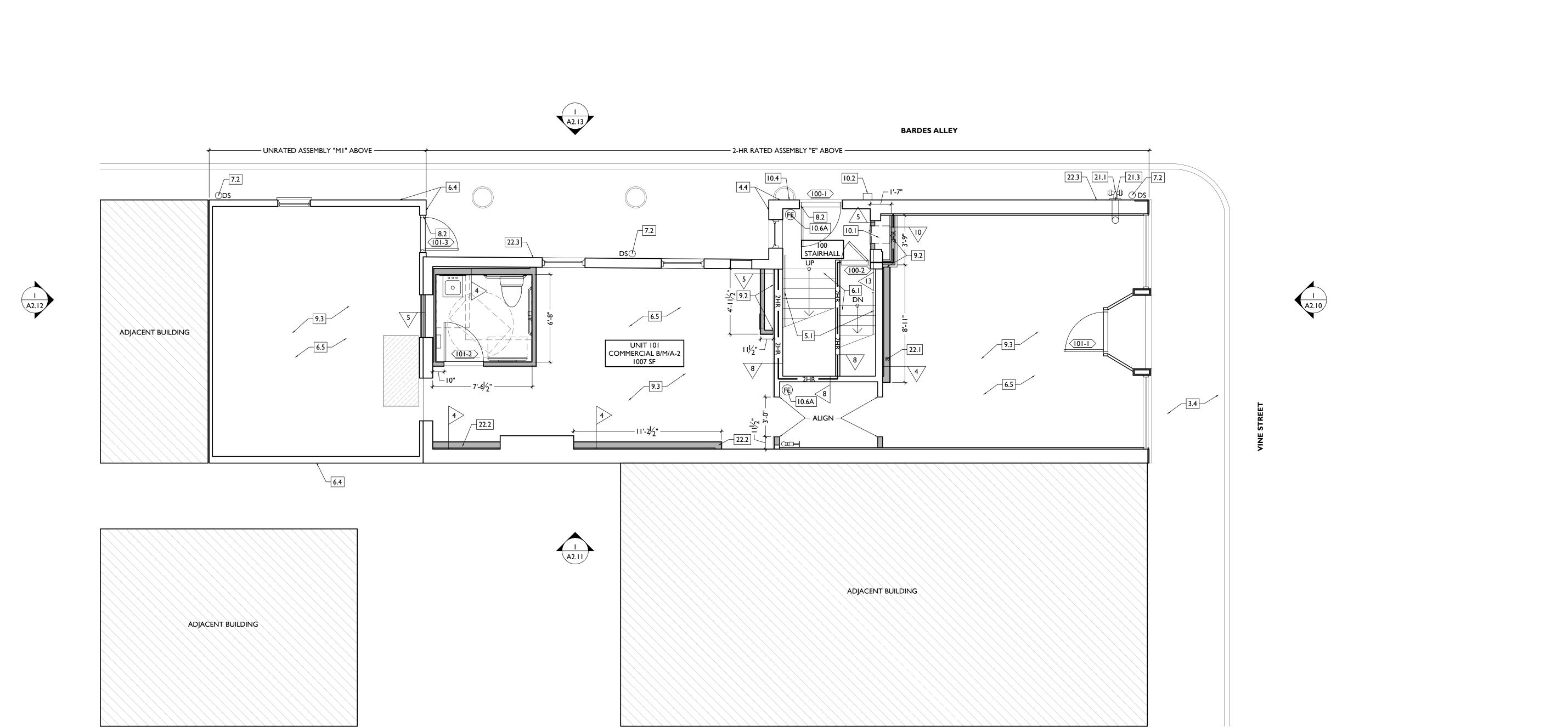
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NEW WORK GRAPHIC KEY:





EXP DATE 12.31.2023

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Design Team: CO, JK, MR, MR, RK, RO, SO, TB Drawn by: MR, AM

STREET

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5. METALS

A2.12

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- DOWNSPOUT. CRICKETS WHERE REQUIRED FOR POSITIVE DRAINAGE AND W/ TERMINATION BARS & METAL COUNTERFLASHING - SEE ROOF DETAILS. INSULATION PER SCHEDULE. B.O.D - 60 MIL WHITE TPO. 10.4 PROVIDE "NO SMOKING" SIGN AT EXTERIOR WALL. FULLY ADHERED ROOF SYSTEM, 20 YEAR WARRANTY, BY CARLISLE SYNTEC, CARLISLE, PA, OR EQUIVALENT.
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22.1 PROVIDE PIPE IN WALL FRAMING FOR VAPOR MITIGATION RISER, AS REQUIRED BY OWNER'S CONSULTANT. RISER TO EXTEND FROM BASEMENT TO ATTIC. SEE CONSULTANT DESIGN FOR LOCATIONS OF RISERS. SEE NOTE 3.2. COORDINATE WITH

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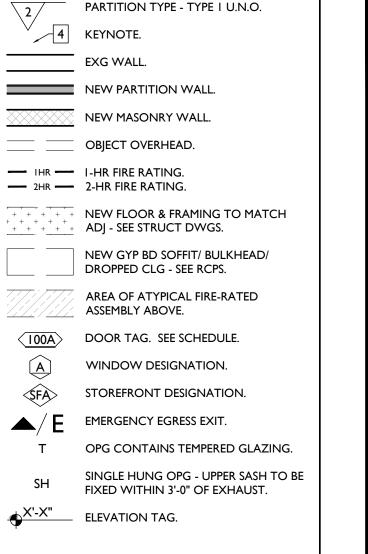
22.3 HOSEBIB LOCATION. SEE PLUMBING DRAWINGS.

STANDARDS & ACCESSIBILITY REQUIREMENTS. PROVIDE CONT 23.1 MECHANICAL UNIT(S) - WALKING PADS TO & AROUND EQUIPMENT. GUARDRAIL REQUIRED IF EQUIPMENT < 10' FROM ROOF EDGE. SEE HVAC & STRUCTURAL DWGS.

A. ROOF <3:12, INSTALL C.U. ON SOUND ISOLATING PADS 7.3 NEW PVC AT LOWER 6' OF DOWNSPOUT. PAINT TO MATCH 10.3 CLOSETS W/ BLOCKING AT RODS & BRACKETS. PROVIDE 12" 23.2 NEW EXHAUST/INTAKE LOUVERS ON EXTERIOR WALL. LOUVERS TO BE PAINTED TO MATCH ADJACENT BRICK. SEE ELEVATIONS AND MECHANICAL DWGS.

26.1 ELECTRIC PANEL RECESSED IN WALL W/ 30"W X 36"D CLEAR IN FRONT. PAINT TO MATCH ADJACENT WALL W APPROPRIATE PAINT TYPE FOR PANEL.

26.2 NEW EXTERIOR LIGHTING. NO EXPOSED CONDUIT ON FACE OF BUII DING



NEW WORK GRAPHIC KEY:

4 KEYNOTE.

EXP DATE 12.31.2023 Progress Dates 2023.04.28 - BID/PERMIT

Design Team:
CO, JK, MR, MR, RK, RO, SO, TB

Drawn by: MR, AM

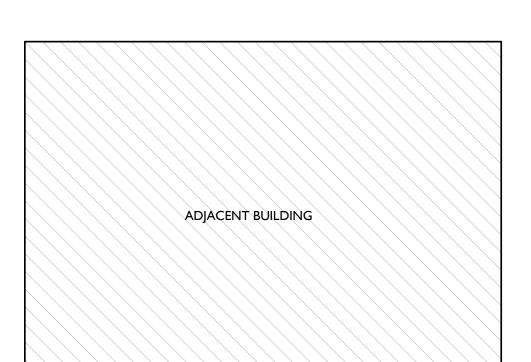
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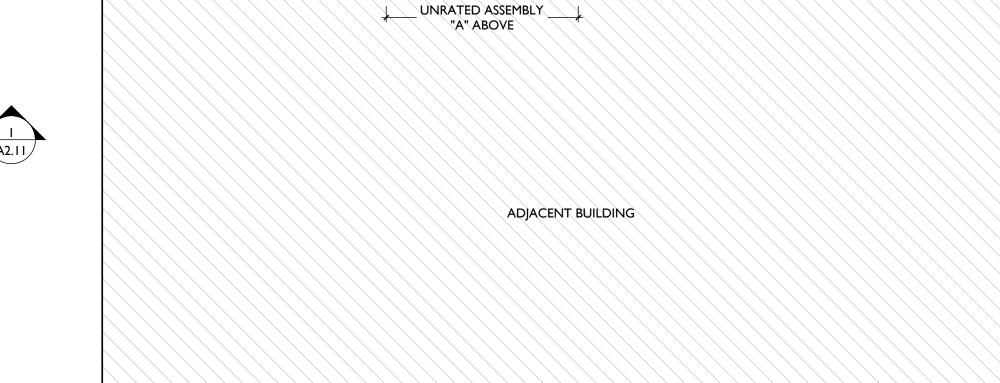
Job No: 22042 04/28/2023

- I-HR RATED ASSEMBLY "C" ABOVE -

- SEE ROOF PLAN -FOR NOTES LAUNDRY UNIT 201 I-BEDROOM 726 SF 201-6 ADJACENT BUILDING **BEDROOM** KITCHEN 10.6B

- I-HR RATED ASSEMBLY "D" ABOVE -





2-HR RATED ASSEMBLY

"E" ABOVE



SCALE: 1/4" = 1'-0"

A2.11

PROPOSED PLAN - SECOND FLOOR

ALL KEYED NOTES LISTED MAY NOT APPLY TO THIS SHEET.

3.1 NEW CONCRETE SLAB. SLOPE TO DRAIN, AND CONNECT FLOOR DRAINS SEWER. SEE STRUCTURAL DRAWINGS. 3.2 VAPOR MITIGATION SYSTEM BELOW SLAB, AS REQUIRED BY OWNER'S CONSULTANT. SEE CONSULTANT DESIGN FOR

B.3 EXG OPG IN BASEMENT TO BE INFILLED. SEE STRUCTURAL DWGS. 7.4 NEW FULLY ADHERED WHITE TPO MEMBRANE ROOF W/ 3.4 INFILL PREVIOUS BASEMENT HATCH. COORDINATE EXTERIOR PAVEMENT/GRADING WORK WITH CIVIL.

SYSTEM DETAILS AND LOCATIONS OF VERTICAL VENTS. SEE

4.1 TUCKPOINT BRICK AS SHOWN ON STRUCTURAL ELEVATIONS & PER SHPO NARRATIVE.

4.2 REPLACE DAMAGED/MISSING BRICK AS SHOWN ON STRUCTURAL ELEVATIONS & PER SHPO NARRATIVE.

4.3 OPENING TO BE INFILLED WITH CMU AT INTERIOR AND BRICK 7.7 NEW STANDING SEAM METAL ROOF. COLOR TBD. SEE ROOF AT EXTERIOR. BRICK IS TO MATCH EXG ADJACENT HISTORIC BRICK IN SIZE, TEXTURE, AND APPEARANCE. FACE OF BRICK IN OPG IS TO BE SET BACK I" FROM FACE OF EXG WALL. SEE

4.4 REPAIR EXG MASONRY STRUCTURE/ADDITION AS REQ. SEE STRUCTURAL DWGS.

5. METALS

5.I NEW CONTINUOUS STEEL PIPE HANDRAIL. SEE DETAILS. 5.2 NEW STEEL PIPE GUARDRAIL. SEE DETAILS.

5.3 REPAIR/RETAIN EXG FIRE ESCAPE. PAINT BLACK. 5.4 NEW STEEL STRUCTURAL MEMBERS. SEE STRUCTURAL DWGS.

6. WOOD, PLASTICS, AND COMPOSITES 6.1 REPAIR DAMAGED WOOD STAIR TREADS/RISERS AS REQ'D.

6.2 NEW RAKE TRIM & GUTTERBOARD TO MATCH EXISTING - SEE 9. FINISHES ELEVATIONS.

6.3 REPAIR/RETAIN EXG CORNICE. REPAINT. 6.4 REPAIR/REPLACE EXG WOOD SIDING AS REQ. REPLACEMENT 9.2 FIRE-RATING TO BE CONTINUOUS BEHIND PLUMBING/CHASE/ SIDING IS TO MATCH EXG WOOD SIDING IN SIZE AND PROFILE.

6.5 NEW FRAMING/SHEATHING/DECKING IN THIS AREA. SEE 9.3 NEW HARDWOOD FLOORING. STRUCTURAL DWGS. 9.4 REFINISHED HISTORIC HARDWOOD FLOORING. .6 NEW WOOD STRUCTURAL MEMBERS. SEE STRUCTURAL DWGS.

7. THERMAL AND MOISTURE PROTECTION

DETAILS. INSULATION PER SCHEDULE.

7.1 REPAIR/RE-LINE EXG BOX GUTTER. 7.2 NEW ROUND ALUMINUM DOWNSPOUT PAINTED TO MATCH ADJACENT WALL SURFACE. SEE EXTERIOR ELEVATIONS. TIE INTO 10.2 SURFACE MOUNTED ENTRY SECURITY SYSTEM CALL BOX BY EXISTING SEWER SYSTEM.

DOWNSPOUT. CRICKETS WHERE REQUIRED FOR POSITIVE DRAINAGE AND W/ TERMINATION BARS & METAL COUNTERFLASHING - SEE ROOF DETAILS. INSULATION PER SCHEDULE. B.O.D - 60 MIL WHITE TPO. 10.4 PROVIDE "NO SMOKING" SIGN AT EXTERIOR WALL. FULLY ADHERED ROOF SYSTEM, 20 YEAR WARRANTY, BY CARLISLE SYNTEC, CARLISLE, PA, OR EQUIVALENT.

7.5 NEW ROOF ACCESS HATCH. INSTALL PER MANUF'S INSTRUCTS. BASIS OF DESIGN = BILCO E50TB, 48"X48". 7.6 PROVIDE NEW DARK BRONZE METAL CAP AT CHIMNEY.

REPAINT.

8.1 NEW SKYLIGHT IN PREVIOUS SKYLIGHT OPG. B.O.D. VELUX IN FIELD. COORDINATE FINISH WITH ARCHITECT.

RATING TO REMAIN CONTINUOUS BEHIND TRANSOM. SEE

8.2 NEW EXTERIOR BUILDING ENTRY DOOR AND FRAME - SEE DOOR SCHEDULE. 8.3 NEW DOOR IN EXISTING HISTORIC FRAME/TRANSOM. FIRE

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FURRING WALL. FIRE RATING TO BE CONTINUOUS AT

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SECURITY CONTRACTOR. MELAMINE SHELF & CLOTHES ROD @ 66" A.F.F.; TYP U.N.O.: A. TYP. REACH-IN CLOSET

B. WALK-IN CLOSET. C. ABOVE W/D.

DOOR SCHEDULE AND DETAILS.

REPAIRED, WHERE POSSIBLE.

INTERSECTION W/ NON-RATED WALL.

10.5 FIRE EXTINGUISHER. COORDINATE FINAL LOCATION WITH LOCAL FIRE MARSHAL.

A. SURFACE MOUNTED. B. IN SINK CABINET IN RESIDENTIAL UNIT, TYPICAL. 10.6 PROVIDE DRAIN PAN BENEATH WASHING MACHINE/ WATER 26.3 NEW MAST HEAD. SEE ELECTRICAL DWGS.

HEATER. SEE PLUMBING DWGS. 10.7 NEW RECESSED MEDICINE CABINET. SEE ENLARGED PLANS, INTERIOR ELEVATIONS AND FINISH SCHEDULE.

10.8 SHOWER NICHE. SEE ENLARGED PLANS, INTERIOR ELEVATIONS AND DETAIL I/A5.00. SINGLE LITE ALUMINUM CLAD SKYLIGHT. VERIFY EXG OPG SIZE 10.9 RECESSED KEY LOCK BOX - BASIS OF DESIGN KNOXBOX 3200. INSTALL PER MANUF'S INSTRUCTS. COORDINATE WITH FIRE

21. FIRE SUPPRESSION

21.1 APPROX LOCATION OF FDC CONNECTION - COORDINATE W/

NEW WORK PLANS & ELEVATIONS # KEYED NOTES:

21.2 SPRINKLER RISER. SEE PLUMBING DWGS. 21.3 EXTERIOR TAMPER/FLOW NOTIFICATION DEVICE - COORDINATE

WITH ELECTRICAL AND FIRE PROTECTION SYSTEMS.

22.1 PROVIDE PIPE IN WALL FRAMING FOR VAPOR MITIGATION RISER, AS REQUIRED BY OWNER'S CONSULTANT. RISER TO EXTEND FROM BASEMENT TO ATTIC. SEE CONSULTANT DESIGN FOR LOCATIONS OF RISERS. SEE NOTE 3.2. COORDINATE WITH

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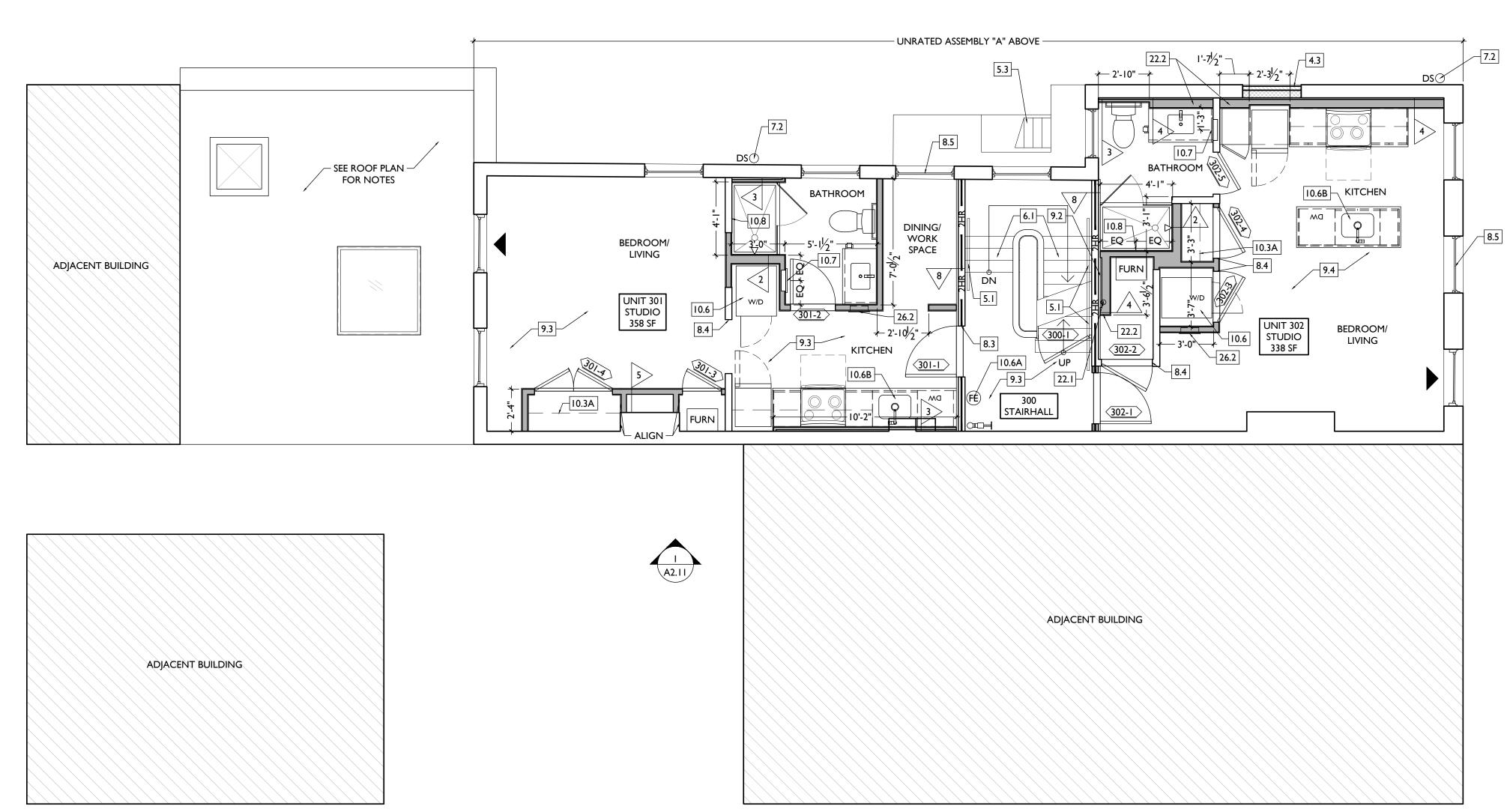
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4 KEYNOTE. NEW PARTITION WALL. NEW MASONRY WALL. OBJECT OVERHEAD. — IHR — I-HR FIRE RATING. — 2HR — 2-HR FIRE RATING. NEW FLOOR & FRAMING TO MATCH ADJ - SEE STRUCT DWGS. NEW GYP BD SOFFIT/ BULKHEAD/ DROPPED CLG - SEE RCPS. AREA OF ATYPICAL FIRE-RATED ASSEMBLY ABOVE. (100A) DOOR TAG. SEE SCHEDULE. WINDOW DESIGNATION. STOREFRONT DESIGNATION. EMERGENCY EGRESS EXIT. OPG CONTAINS TEMPERED GLAZING. SINGLE HUNG OPG - UPPER SASH TO BE FIXED WITHIN 3'-0" OF EXHAUST. X'-X" ELEVATION TAG.

NEW WORK GRAPHIC KEY:

PARTITION TYPE - TYPE I U.N.O.





EXP DATE 12.31.2023 Progress Dates

2023.04.28 - BID/PERMIT

Design Team:
CO, JK, MR, MR, RK, RO, SO, TB
Drawn by:
MR, AM

STREET

ALL KEYED NOTES LISTED MAY NOT APPLY TO THIS SHEET.

3. CONCRETE

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DETAILS. INSULATION PER SCHEDULE.

8.3 NEW DOOR IN EXISTING HISTORIC FRAME/TRANSOM. FIRE

DOOR SCHEDULE AND DETAILS.

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SECURITY CONTRACTOR. MELAMINE SHELF & CLOTHES ROD @ 66" A.F.F.; TYP U.N.O.:

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C. ABOVE W/D. 10.5 FIRE EXTINGUISHER. COORDINATE FINAL LOCATION WITH LOCAL FIRE MARSHAL.

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HEATER. SEE PLUMBING DWGS. 10.7 NEW RECESSED MEDICINE CABINET. SEE ENLARGED PLANS,

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21. FIRE SUPPRESSION

21.1 APPROX LOCATION OF FDC CONNECTION - COORDINATE W/

NEW WORK PLANS & ELEVATIONS # KEYED NOTES:

21.2 SPRINKLER RISER. SEE PLUMBING DWGS.

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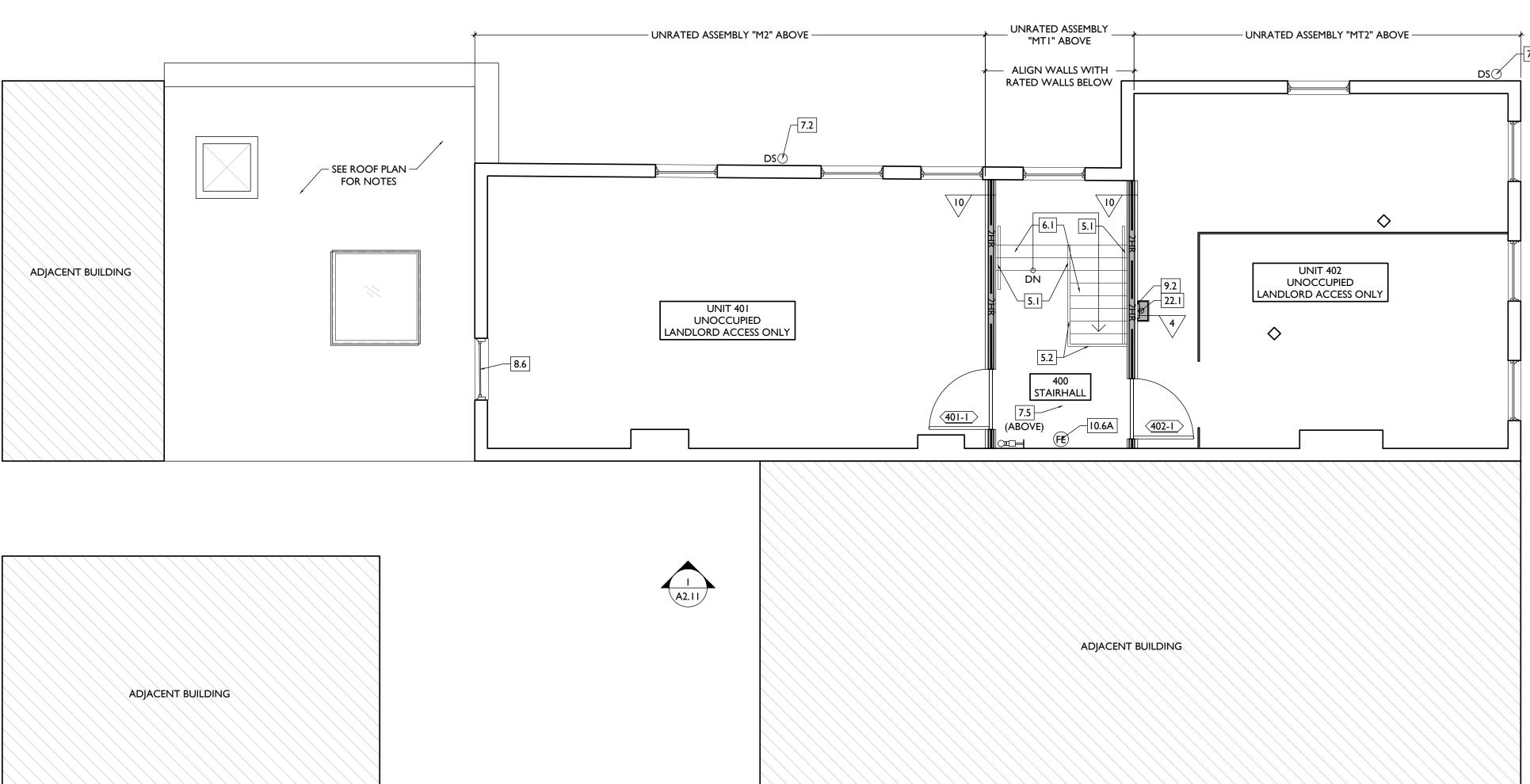
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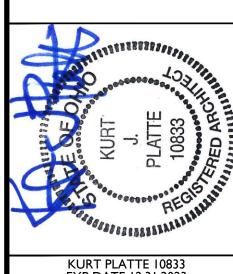
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PARTITION TYPE - TYPE I U.N.O. 4 KEYNOTE. NEW PARTITION WALL. NEW MASONRY WALL. OBJECT OVERHEAD. — IHR — I-HR FIRE RATING. — 2HR — 2-HR FIRE RATING. NEW FLOOR & FRAMING TO MATCH ADJ - SEE STRUCT DWGS. NEW GYP BD SOFFIT/ BULKHEAD/ DROPPED CLG - SEE RCPS. AREA OF ATYPICAL FIRE-RATED ASSEMBLY ABOVE. DOOR TAG. SEE SCHEDULE. WINDOW DESIGNATION. STOREFRONT DESIGNATION. EMERGENCY EGRESS EXIT. OPG CONTAINS TEMPERED GLAZING. SINGLE HUNG OPG - UPPER SASH TO BE FIXED WITHIN 3'-0" OF EXHAUST. *X'-X" ELEVATION TAG.

NEW WORK GRAPHIC KEY:







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Design Team:
_CO, JK, MR, MR, RK, RO, SO, TB Drawn by: MR, AM

STREET



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DOOR SCHEDULE AND DETAILS.

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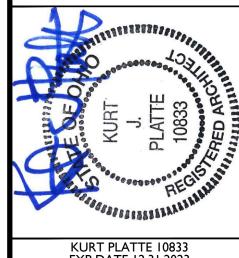
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PARTITION TYPE - TYPE I U.N.O. 4 KEYNOTE. NEW PARTITION WALL. NEW MASONRY WALL. OBJECT OVERHEAD. — IHR — I-HR FIRE RATING. — 2HR — 2-HR FIRE RATING. NEW FLOOR & FRAMING TO MATCH ADJ - SEE STRUCT DWGS. NEW GYP BD SOFFIT/ BULKHEAD/ DROPPED CLG - SEE RCPS. AREA OF ATYPICAL FIRE-RATED ASSEMBLY ABOVE. 100A DOOR TAG. SEE SCHEDULE. WINDOW DESIGNATION. STOREFRONT DESIGNATION. EMERGENCY EGRESS EXIT. OPG CONTAINS TEMPERED GLAZING. SINGLE HUNG OPG - UPPER SASH TO BE FIXED WITHIN 3'-0" OF EXHAUST. X'-X" ELEVATION TAG.

NEW WORK GRAPHIC KEY:

ADJACENT BUILDING 5.2 ADJACENT BUILDING ADJACENT BUILDING

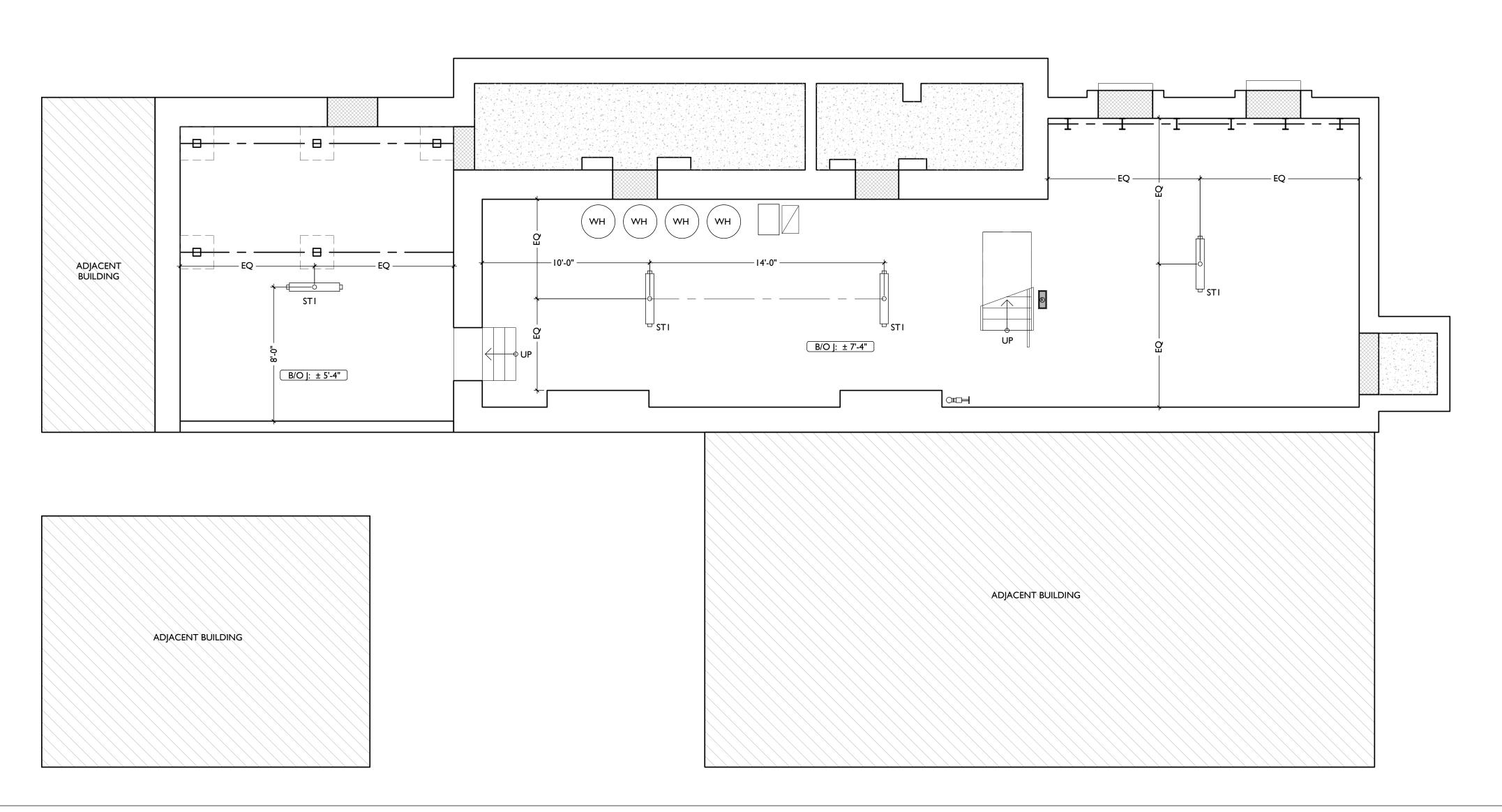


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Design Team:
CO, JK, MR, MR, RK, RO, SO, TB
Drawn by:
MR, AM

STREET







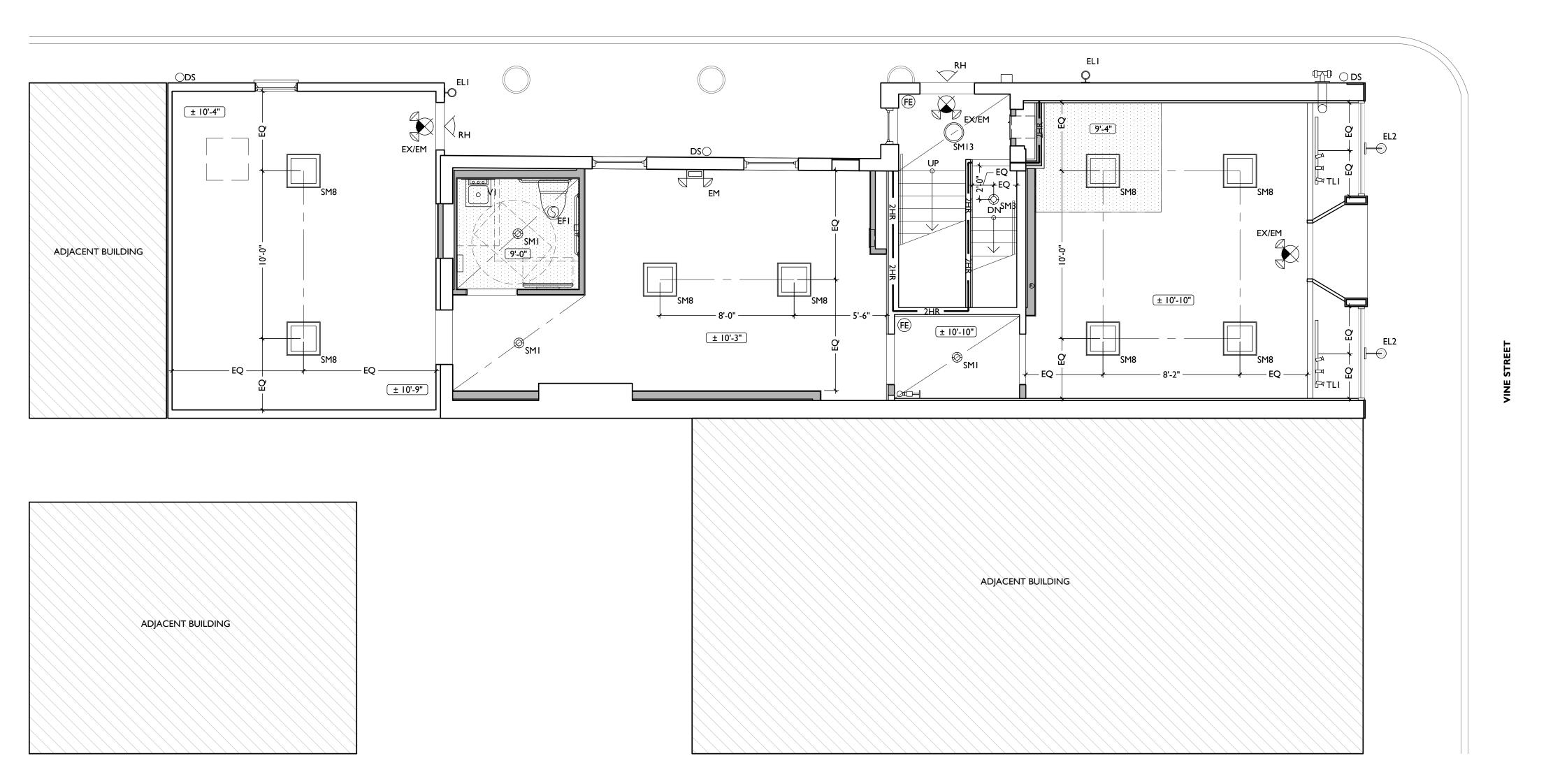
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STREET

BARDES ALLEY





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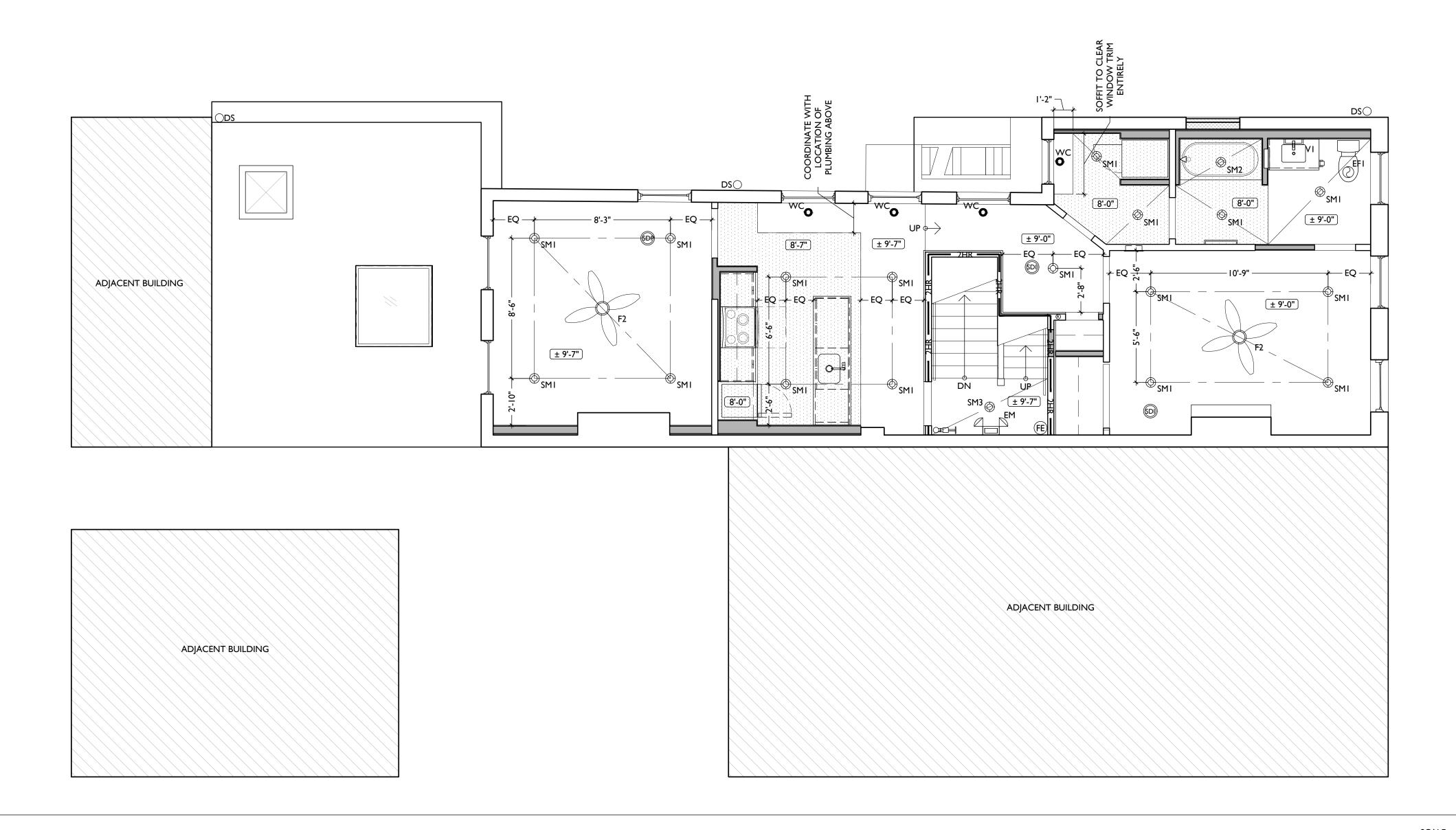
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Revisions

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ION FOR VINE STREET ATI, OH, 45202

Job No: 22042 04/28/2023





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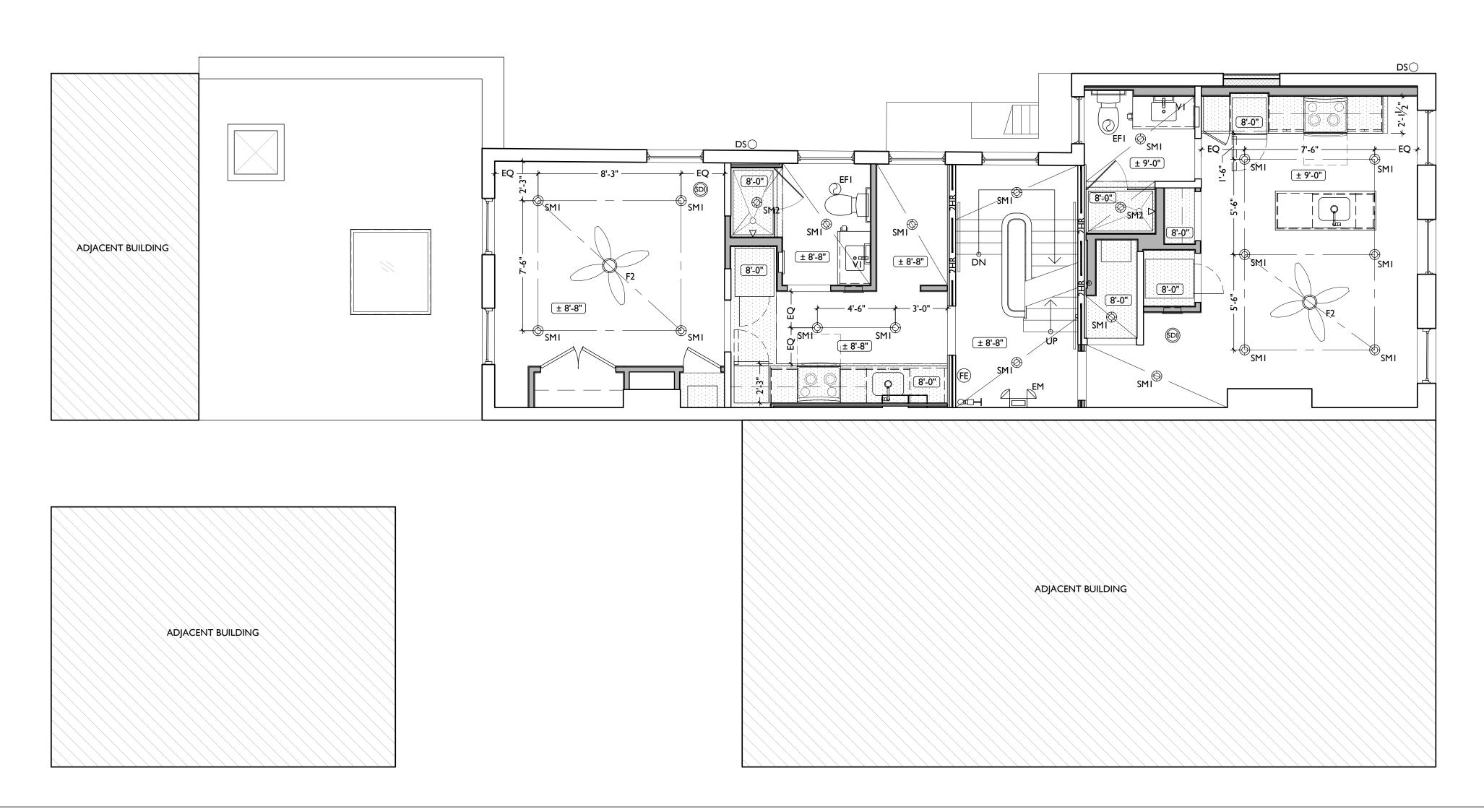
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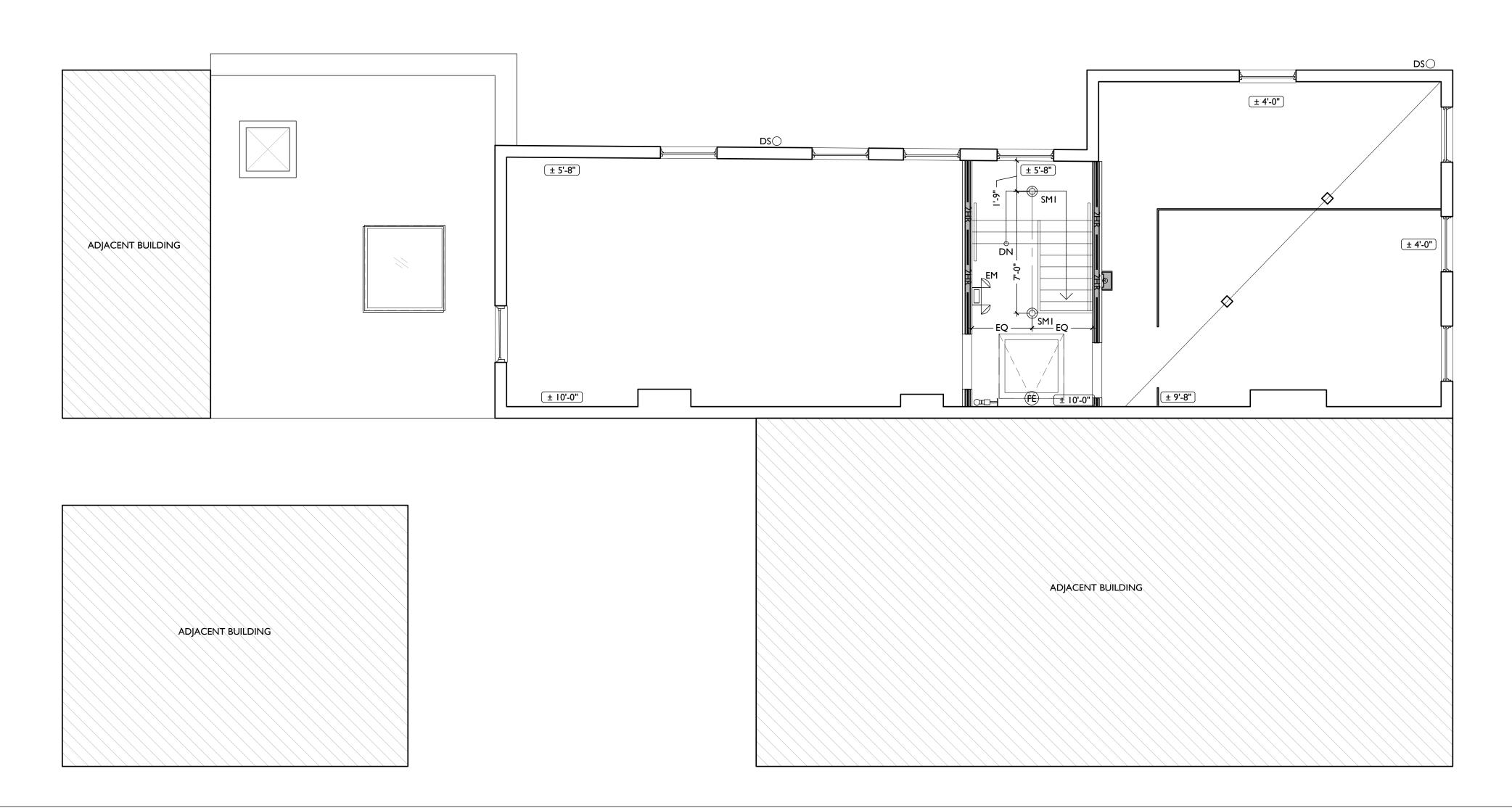
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				REFLEC	TED CEILING PLAN FIXTURE LEGEND:				REFLECTED CEILING PLAN GENERAL NOTES:	F	REFLECTED CEILING PLAN GRAPHIC KEY:
SYMBOL	FIXTURE TYPE	REMARKS	SYMBOL	FIXTURE TYPE	REMARKS	SYMBOL	FIXTURE TYPE	REMARKS	A NOTE THIS IS A LUCTORIC TAY CREDIT PROJECT ALL MORK MUST		
⊕ smi		SMI - GENERAL LIGHTS. PROVIDE DIMMERS IN RESIDENTIAL UNITS.				\triangle	EMERGENCY EGRESS LIGHT	LED REMOTE HEAD EMERGENCY EGRESS LIGHT	A. NOTE: THIS IS A HISTORIC TAX CREDIT PROJECT. ALL WORK MUST COMPLY W/ APPROVED. PART 2, INCLUDING AMENDMENTS. NO HISTORIC ELEMENTS SHALL BE REMOVED/MODIFIED UNLESS SPECIFICALLY INDICATED	CH: 8'-0"	CEILING HEIGHT TAG (TYP 8'-0" U.N.O.)
⊕ SM2	SURFACE MOUNT LED CAN LIGHT	SM2 - DAMP RATED, TYPICAL IN SHOWERS.	FI	CEILING FAN WITH LIGHT	SMALL FAN, TYPICAL IN BEDROOMS AND LIVING ROOMS	RHI			IN ARCH DWGS. B. IF A FIXTURE APPEARS TO BE CENTERED IN A SPACE, THEN CENTER IT.		SOFFIT/LOWERED GYP BD CEILING
© SM3		SM3 - ALWAYS ON , TYPICAL IN COMMON STAIRHALLS				EM	EMERGENCY EGRESS LIGHT	EMERGENCY EGRESS LIGHT WALL PACK	C. LOWERED CEILINGS AND SOFFITS SHALL BE 8'-0" HIGH A.F.F., U.N.O. D. CLG HTS AT EXG FLOORS ARE TO BE VI.F. E. ALL CEILING FINISHES IN OCCUPIED SPACES TO BE SMOOTH PAINTED		AREA OF ATYPICAL FIRE-RATING. SEE PLANS & SHEET A0.01
SMI3	SURFACE MOUNT ENTRY LIGHT	STAIR HALL ENTRY VESTIBULE, IST FLOOR ONLY				<u> </u>			DRYWALL U.N.O. SEE FINISH SCHEDULE FOR PAINT COLORS. F. BASEMENTS & UNOCCUPIED ATTICS TO HAVE EXPOSED JOISTS - NO FINISH	<u> </u>	
			F2	CEILING FAN WITH LIGHT	LARGE FAN, TYPICAL IN BEDROOM AND LIVING ROOM				CLGS U.N.O. G. ALL SOFFITS OVER KITCHEN CABINETS TO BE 8'-0" AFF AND 2'-1 1/2" WIDE MINIMUM.	WCO	WATER CURTAIN HEAD TO PROVIDE 100% COVERAGE OF WINDOW- COORD W/ F.P PLANS
SM8	SURFACE MOUNT LINEAR LED	TYPICAL IN COMMERCIAL TURNKEY SPACES							H. PROVIDE UNDER-CABINET LIGHTING BENEATH ALL UPPER KITCHEN CABINETS IN RESIDENTAL UNITS. SEE ELEC DWGS. I. SEE EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTS.	(NL) (OS)	DENOTES NIGHT LIGHT FIXTURE DENOTES OCCUPANCY SENSOR
STI	SURFACE MOUNT UTILITY FIXTURE	TYPICAL IN ATTICS AND IN BASEMENTS	WMI Q	WALL MOUNT EXTERIOR LIGHT	EXTERIOR ARCHITECTURAL UP-DOWN LIGHT				J. SEE ELECTRICAL DRAWINGS FOR FIXTURE SPECIFICATIONS. K. ANY FIXTURES LOCATED IN AREAS WITH REMAINING HISTORIC TIN CEILINGS SHOULD BE CENTERED ON THE CEILING TILES, RATHER THAN PERFECTLY CENTERED IN THE SPACE. ADJUST THE GRID PLACEMENT/DIMENSIONS BY A FEW INCHES AS REQUIRED TO		COMBO SMOKE/CARBON MONOXIDE DETECTOR: IONIZATION (TYP BEDROOMS) PHOTOELECTRIC
VI		VI - TYPICAL OVER BATHROOM VANITIES IN TYPICAL RESIDENTIAL UNITS.	⊕ WM5	WALL MOUNT EXTERIOR LIGHT	EXTERIOR ARCHITECTURAL GOOSENECK LIGHT				ACCOMMODATE THIS.	⊕ - ∪	CENTER ON ARCHITECTURAL FEATURE
V2 □		V2 - TYPICAL ON SIDES OF BATHROOM VANITIES IN TYPICAL RESIDENTIAL UNITS.									STRUCTURAL MEMBER - SEE STRUCTURAL DWGS
TLI	SURFACE MOUNT TRACK LIGHT	DIMMABLE, TYPICAL IN COMMERCIAL TURNKEY SPACES AND IN LOBBIES	Es	EMERGENCY EGRESS LIGHT	EMERGENCY EGRESS EXIT SIGN						
	SURFACE MOUNT PENDANT	TYPICAL OVER KITCHEN ISLANDS	ESL	EMERGENCY EGRESS LIGHT	EMERGENCY EGRESS EXIT SIGN W/ LIGHTS						
			S _{EFI}	BATHROOM VENT	TYPICAL BATHROOM EXHAUST FAN/VENT						





LATTE

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visions

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FOR VE STREET OH, 45202

ENOVATION SONT SINCINNINATI,

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- B.3 EXG OPG IN BASEMENT TO BE INFILLED. SEE STRUCTURAL DWGS. 7.4 NEW FULLY ADHERED WHITE TPO MEMBRANE ROOF W/ 3.4 INFILL PREVIOUS BASEMENT HATCH. COORDINATE EXTERIOR PAVEMENT/GRADING WORK WITH CIVIL.

4.1 TUCKPOINT BRICK AS SHOWN ON STRUCTURAL ELEVATIONS & PER SHPO NARRATIVE.

AT EXTERIOR. BRICK IS TO MATCH EXG ADJACENT HISTORIC

- 4.2 REPLACE DAMAGED/MISSING BRICK AS SHOWN ON STRUCTURAL ELEVATIONS & PER SHPO NARRATIVE. 4.3 OPENING TO BE INFILLED WITH CMU AT INTERIOR AND BRICK 7.7 NEW STANDING SEAM METAL ROOF. COLOR TBD. SEE ROOF
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5. METALS

5.I NEW CONTINUOUS STEEL PIPE HANDRAIL. SEE DETAILS. 5.2 NEW STEEL PIPE GUARDRAIL. SEE DETAILS.

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7. THERMAL AND MOISTURE PROTECTION

DETAILS. INSULATION PER SCHEDULE.

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BRICK IN SIZE, TEXTURE, AND APPEARANCE. FACE OF BRICK IN

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NEW WORK PLANS & ELEVATIONS # KEYED NOTES:

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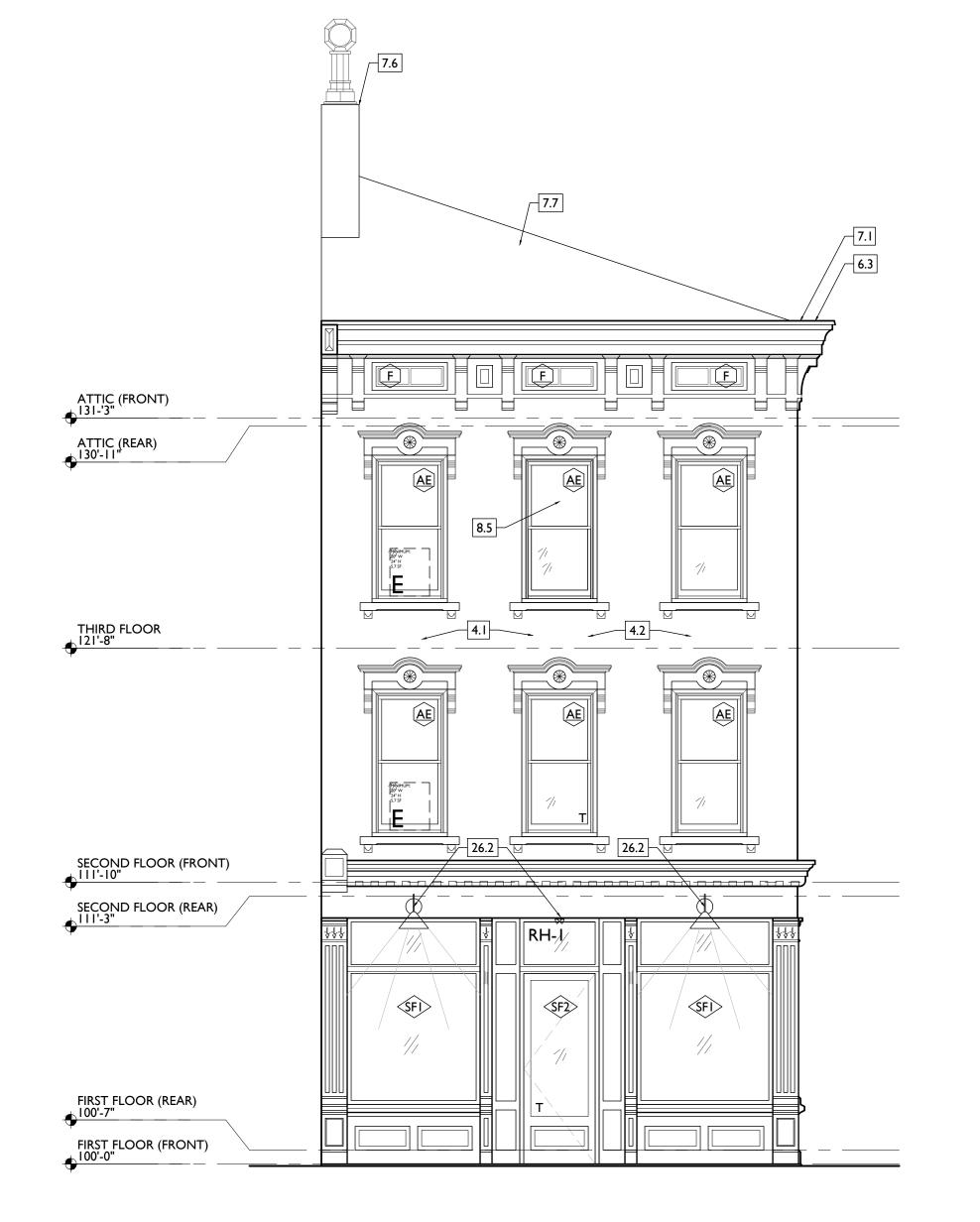
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STREET



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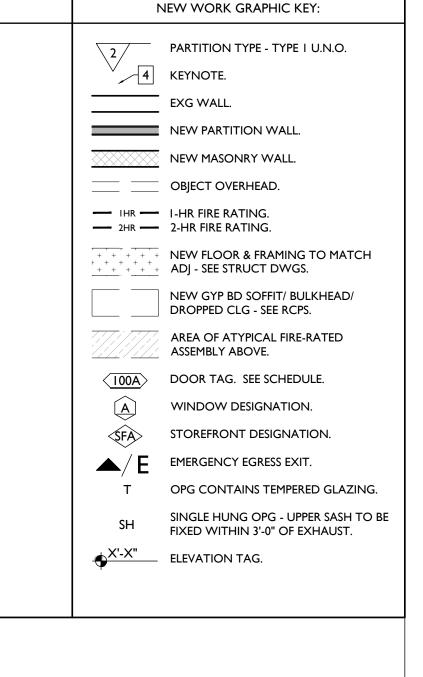
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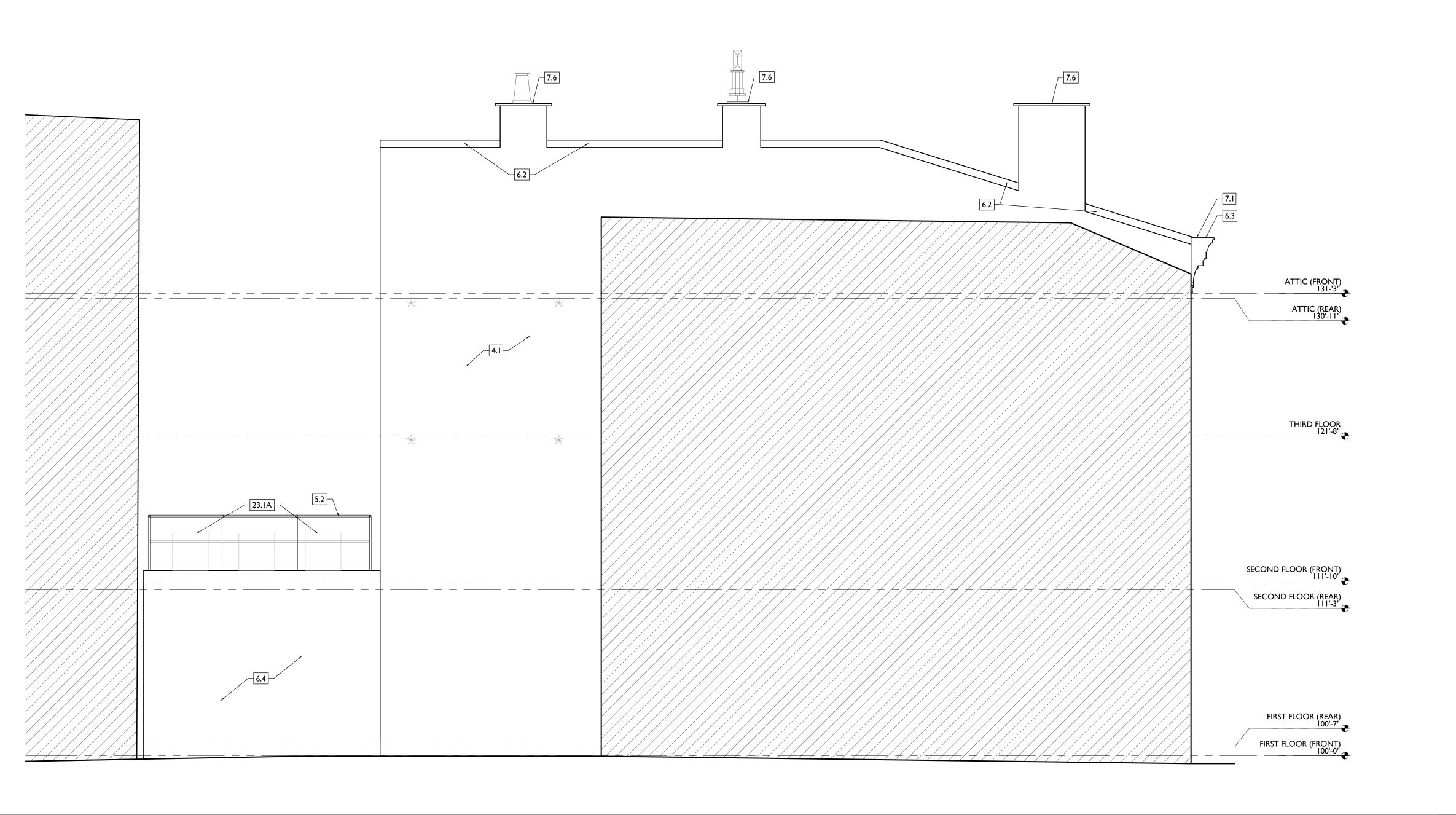
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4.1 TUCKPOINT BRICK AS SHOWN ON STRUCTURAL ELEVATIONS & PER SHPO NARRATIVE.

OPG IS TO BE SET BACK I" FROM FACE OF EXG WALL. SEE

- 4.2 REPLACE DAMAGED/MISSING BRICK AS SHOWN ON STRUCTURAL ELEVATIONS & PER SHPO NARRATIVE. AT EXTERIOR. BRICK IS TO MATCH EXG ADJACENT HISTORIC
- 4.4 REPAIR EXG MASONRY STRUCTURE/ADDITION AS REQ. SEE STRUCTURAL DWGS.

5. METALS

5.I NEW CONTINUOUS STEEL PIPE HANDRAIL. SEE DETAILS. 5.2 NEW STEEL PIPE GUARDRAIL. SEE DETAILS.

- 5.3 REPAIR/RETAIN EXG FIRE ESCAPE. PAINT BLACK. 5.4 NEW STEEL STRUCTURAL MEMBERS. SEE STRUCTURAL DWGS.
- 6. WOOD, PLASTICS, AND COMPOSITES 6.1 REPAIR DAMAGED WOOD STAIR TREADS/RISERS AS REQ'D.
- 6.2 NEW RAKE TRIM & GUTTERBOARD TO MATCH EXISTING SEE 9. FINISHES ELEVATIONS. 6.3 REPAIR/RETAIN EXG CORNICE. REPAINT.
- SIDING IS TO MATCH EXG WOOD SIDING IN SIZE AND PROFILE. REPAINT 6.5 NEW FRAMING/SHEATHING/DECKING IN THIS AREA. SEE
- STRUCTURAL DWGS. .6 NEW WOOD STRUCTURAL MEMBERS. SEE STRUCTURAL DWGS.

- 7.1 REPAIR/RE-LINE EXG BOX GUTTER. 7.2 NEW ROUND ALUMINUM DOWNSPOUT PAINTED TO MATCH ADJACENT WALL SURFACE. SEE EXTERIOR ELEVATIONS. TIE INTO 10.2 SURFACE MOUNTED ENTRY SECURITY SYSTEM CALL BOX BY EXISTING SEWER SYSTEM.
- DOWNSPOUT. FULLY ADHERED ROOF SYSTEM, 20 YEAR WARRANTY, BY CARLISLE SYNTEC, CARLISLE, PA, OR EQUIVALENT.
- BASIS OF DESIGN = BILCO E50TB, 48"X48". 7.6 PROVIDE NEW DARK BRONZE METAL CAP AT CHIMNEY.
- BRICK IN SIZE, TEXTURE, AND APPEARANCE. FACE OF BRICK IN
 - 8.1 NEW SKYLIGHT IN PREVIOUS SKYLIGHT OPG. B.O.D. VELUX
 - DOOR SCHEDULE. 8.3 NEW DOOR IN EXISTING HISTORIC FRAME/TRANSOM. FIRE 21. FIRE SUPPRESSION
- - RATING TO REMAIN CONTINUOUS BEHIND TRANSOM. SEE

- DOOR SCHEDULE AND DETAILS.
- 8.4 RELOCATED HISTORIC DOOR/OPG. SEE DOOR SCHEDULE. 8.5 RELOCATED HISTORIC WINDOW. SEE WINDOW TYPES AND

- 9.1 EXG PLASTER AT MASONRY WALL TO BE PATCHED AND REPAIRED, WHERE POSSIBLE. 6.4 REPAIR/REPLACE EXG WOOD SIDING AS REQ. REPLACEMENT 9.2 FIRE-RATING TO BE CONTINUOUS BEHIND PLUMBING/CHASE/ FURRING WALL. FIRE RATING TO BE CONTINUOUS AT
 - INTERSECTION W/ NON-RATED WALL. 9.3 NEW HARDWOOD FLOORING. 9.4 REFINISHED HISTORIC HARDWOOD FLOORING.

- 10. SPECIALTIES 10.1 LOCKABLE & RECESSED MAILBOXES. BOXES TO MEET USPS-4C 23. HEATING, VENTILATING, AND AIR CONDITIONING FIRE-RATING BEHIND MAILBOXES, WHEN REQ.
- SECURITY CONTRACTOR. MELAMINE SHELF & CLOTHES ROD @ 66" A.F.F.; TYP U.N.O.:
- A. TYP. REACH-IN CLOSET B. WALK-IN CLOSET.
- C. ABOVE W/D. 10.5 FIRE EXTINGUISHER. COORDINATE FINAL LOCATION WITH LOCAL FIRE MARSHAL.
- A. SURFACE MOUNTED. B. IN SINK CABINET IN RESIDENTIAL UNIT, TYPICAL.
- HEATER. SEE PLUMBING DWGS. 10.7 NEW RECESSED MEDICINE CABINET. SEE ENLARGED PLANS, INTERIOR ELEVATIONS AND FINISH SCHEDULE.
- 10.8 SHOWER NICHE. SEE ENLARGED PLANS, INTERIOR ELEVATIONS AND DETAIL I/A5.00. SINGLE LITE ALUMINUM CLAD SKYLIGHT. VERIFY EXG OPG SIZE 10.9 RECESSED KEY LOCK BOX - BASIS OF DESIGN KNOXBOX 3200. INSTALL PER MANUF'S INSTRUCTS. COORDINATE WITH FIRE

NEW WORK PLANS & ELEVATIONS # KEYED NOTES:

21.2 SPRINKLER RISER. SEE PLUMBING DWGS. 21.3 EXTERIOR TAMPER/FLOW NOTIFICATION DEVICE - COORDINATE

WITH ELECTRICAL AND FIRE PROTECTION SYSTEMS.

22.1 PROVIDE PIPE IN WALL FRAMING FOR VAPOR MITIGATION RISER, AS REQUIRED BY OWNER'S CONSULTANT. RISER TO EXTEND FROM BASEMENT TO ATTIC. SEE CONSULTANT DESIGN FOR LOCATIONS OF RISERS. SEE NOTE 3.2. COORDINATE WITH

22.2 PLUMBING CHASE (OR WALL) - VERIFY LOCATIONS IN FIELD TO

ALIGN CONCEALMENT BETWEEN FLOORS. 22.3 HOSEBIB LOCATION. SEE PLUMBING DRAWINGS.

STANDARDS & ACCESSIBILITY REQUIREMENTS. PROVIDE CONT 23.1 MECHANICAL UNIT(S) - WALKING PADS TO & AROUND EQUIPMENT. GUARDRAIL REQUIRED IF EQUIPMENT < 10' FROM ROOF EDGE. SEE HVAC & STRUCTURAL DWGS.

A. ROOF <3:12, INSTALL C.U. ON SOUND ISOLATING PADS 7.3 NEW PVC AT LOWER 6' OF DOWNSPOUT. PAINT TO MATCH 10.3 CLOSETS W/ BLOCKING AT RODS & BRACKETS. PROVIDE 12" 23.2 NEW EXHAUST/INTAKE LOUVERS ON EXTERIOR WALL. LOUVERS TO BE PAINTED TO MATCH ADJACENT BRICK. SEE ELEVATIONS AND MECHANICAL DWGS.

26.1 ELECTRIC PANEL RECESSED IN WALL W/ 30"W X 36"D CLEAR IN FRONT. PAINT TO MATCH ADJACENT WALL W APPROPRIATE PAINT TYPE FOR PANEL.

26.2 NEW EXTERIOR LIGHTING. NO EXPOSED CONDUIT ON FACE OF BUII DING

10.6 PROVIDE DRAIN PAN BENEATH WASHING MACHINE/ WATER 26.3 NEW MAST HEAD. SEE ELECTRICAL DWGS.

ATTIC (REAR)

FIRST FLOOR (REAR)

FIRST FLOOR (FRONT)

PARTITION TYPE - TYPE I U.N.O. 4 KEYNOTE. NEW PARTITION WALL. NEW MASONRY WALL. OBJECT OVERHEAD. — IHR — I-HR FIRE RATING. — 2HR — 2-HR FIRE RATING. NEW FLOOR & FRAMING TO MATCH ADJ - SEE STRUCT DWGS. NEW GYP BD SOFFIT/ BULKHEAD/ DROPPED CLG - SEE RCPS. AREA OF ATYPICAL FIRE-RATED ASSEMBLY ABOVE. 100A DOOR TAG. SEE SCHEDULE. WINDOW DESIGNATION. STOREFRONT DESIGNATION. EMERGENCY EGRESS EXIT. OPG CONTAINS TEMPERED GLAZING. SINGLE HUNG OPG - UPPER SASH TO BE FIXED WITHIN 3'-0" OF EXHAUST. X'-X" ELEVATION TAG.

NEW WORK GRAPHIC KEY:



STREET

Job No: 22042 04/28/2023

SCALE: 1/4" = 1'-0"

23.IA

PROPOSED ELEVATION - WEST

7. THERMAL AND MOISTURE PROTECTION

CRICKETS WHERE REQUIRED FOR POSITIVE DRAINAGE AND W/ TERMINATION BARS & METAL COUNTERFLASHING - SEE ROOF DETAILS. INSULATION PER SCHEDULE. B.O.D - 60 MIL WHITE TPO. 10.4 PROVIDE "NO SMOKING" SIGN AT EXTERIOR WALL.

7.5 NEW ROOF ACCESS HATCH. INSTALL PER MANUF'S INSTRUCTS.

4.3 OPENING TO BE INFILLED WITH CMU AT INTERIOR AND BRICK 7.7 NEW STANDING SEAM METAL ROOF. COLOR TBD. SEE ROOF

DETAILS. INSULATION PER SCHEDULE.

IN FIELD. COORDINATE FINISH WITH ARCHITECT. 8.2 NEW EXTERIOR BUILDING ENTRY DOOR AND FRAME - SEE

21.1 APPROX LOCATION OF FDC CONNECTION - COORDINATE W/

ALL KEYED NOTES LISTED MAY NOT APPLY TO THIS SHEET.

- 3.1 NEW CONCRETE SLAB. SLOPE TO DRAIN, AND CONNECT FLOOR DRAINS SEWER. SEE STRUCTURAL DRAWINGS. 3.2 VAPOR MITIGATION SYSTEM BELOW SLAB, AS REQUIRED BY OWNER'S CONSULTANT. SEE CONSULTANT DESIGN FOR SYSTEM DETAILS AND LOCATIONS OF VERTICAL VENTS. SEE
- B.3 EXG OPG IN BASEMENT TO BE INFILLED. SEE STRUCTURAL DWGS. 7.4 NEW FULLY ADHERED WHITE TPO MEMBRANE ROOF W/ 3.4 INFILL PREVIOUS BASEMENT HATCH. COORDINATE EXTERIOR PAVEMENT/GRADING WORK WITH CIVIL.

4.1 TUCKPOINT BRICK AS SHOWN ON STRUCTURAL ELEVATIONS & PER SHPO NARRATIVE.

OPG IS TO BE SET BACK I" FROM FACE OF EXG WALL. SEE

- 4.2 REPLACE DAMAGED/MISSING BRICK AS SHOWN ON STRUCTURAL ELEVATIONS & PER SHPO NARRATIVE. 4.3 OPENING TO BE INFILLED WITH CMU AT INTERIOR AND BRICK 7.7 NEW STANDING SEAM METAL ROOF. COLOR TBD. SEE ROOF AT EXTERIOR. BRICK IS TO MATCH EXG ADJACENT HISTORIC
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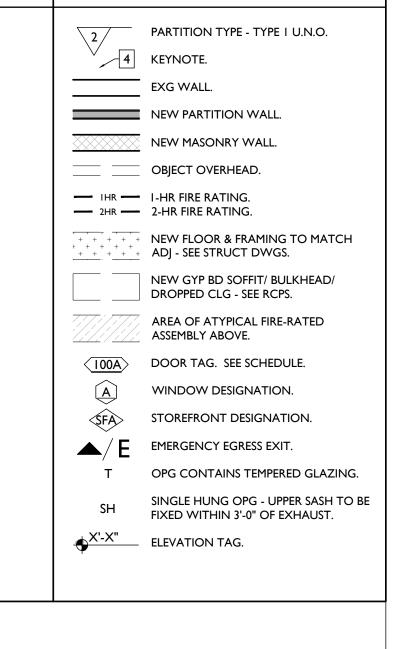
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- BUII DING



NEW WORK GRAPHIC KEY:



EXP DATE 12.31.2023 Progress Dates 2023.04.28 - BID/PERMIT

Design Team: CO, JK, MR, MR, RK, RO, SO, TB Drawn by: MR, AM

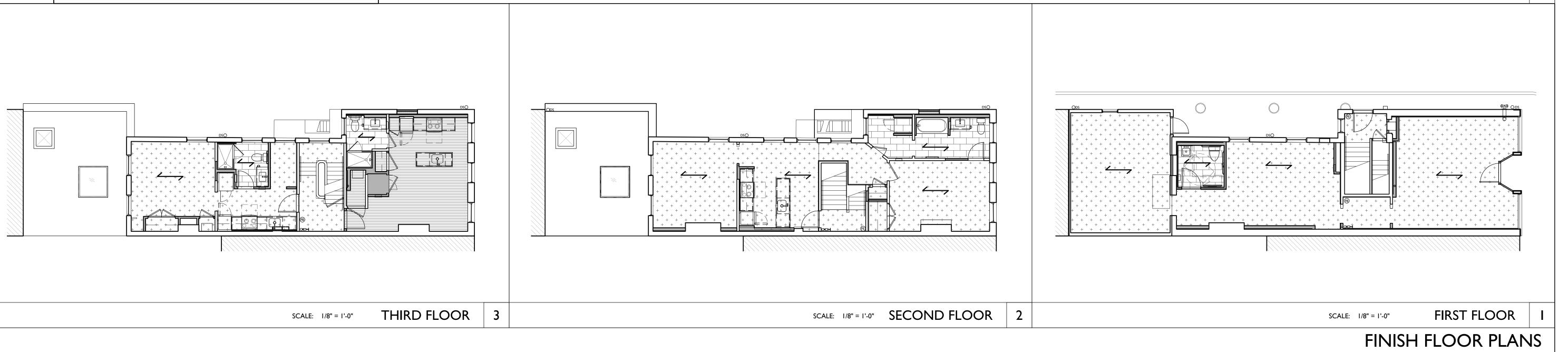
STREET

1807

	floor general notes
 WHERE EXG. HEARTH COLOR TBD. TRANSITION TYPES: PROVIDE TRANSI PROVIDE NEW WWOOD FLOOR WHERE FLOOR T 	ITILE IS PRESENT. PROTECT AND MAINTAIN AS IS. I IS CONCRETE, PATCH / PROVIDE SOME SKIM COAT. PAINT CONCRETE TION STRIPS WHERE CHANGES IN MATERIAL OCCUR. /OOD TRANSITIONS WHERE NEW WOOD FLOOR MEETS HISTORIC TILE TRANSITIONS TO WOOD PROVIDE ALUMINUM TILE EDGE. B.O.D TRIM. THICKNESS TO BE DETERMINED IN THE FIELD.
FLOOR FINI	SH LEGEND (SEE FINISH SCHEDULES A4.00-A4.02 FOR DETAILS)
FLOOR FINI	SH LEGEND (SEE FINISH SCHEDULES A4.00-A4.02 FOR DETAILS)
FLOOR FINI	SH LEGEND (SEE FINISH SCHEDULES A4.00-A4.02 FOR DETAILS) FL-I EXG HISTORIC FINISH FLOORS TO REMAIN
FLOOR FINI	FL-I
	FL-I EXG HISTORIC FINISH FLOORS TO REMAIN FL-2

MATERIAL / LOCATION	CODE	DESCRIPTION	NOTES	SOURCE
		FLOORING		
EXISTING WOOD FLOORING - WHERE MAINTAINED	FL-I	MANU: EXISTING WOOD FLOORING FINISH: MINWAX STAIN COLOR: HEIRLOOM OAK MW441	STRIP, SAND AND STAIN PER MANUFACTURER'S SPECIFICATIONS	
NEW WOOD FLOORING - WHERE REQUIRED	FL-2	MANU: WOODWARD FLOORING FINISH: NATURAL WHITE OAK PLANK WIDTH: 3.25"	SEE FINISH PLANS FOR INSTALL DIRECTION.	
FLOOR TILE - BATHROOMS AND ADJACENT MEP/LAUNDRY ROOMS	FL-3	MANU: FLORIDA TILE COLLECTION: ALUSTRA COLOR: REGAL BLACK - MATTE SIZE: 12 X 24 - 3/8" THICKNESS GROUT: LATICRETE - 45 RAVEN INSTALL: RUNNING BOND WITH 1/3 OFFSET	PROVIDE LIQUID APPLIED WATERPROOF MEMBRANE BELOW TILE AND FIRESTOP SEALANT AT FLOOR PENETRATIONS	FLORIDA TILE EMILY FISCHER EMILY.FISCHER@FLORIDATILE.G OM 513.824.1791
VCT - MEP/LAUNDRY ROOM FLOORS	FL-4	MANU: ARMSTRONG COLLECTION: EXCELON VCT COLOR: 51861 SOFT WARM GRAY	USE IN LAUNDRY AND MEP ONLY IF ROOM IS NOT ADJACENT TO BATHROOM. UNDERLAYMENT AS REQ'D.	PAUL MCKAY PAMCKAY@ARMSTRONGFLOC RING.COM 513.515.0228
FLOOR TILE - KITCHENS WHERE REQUIRED	FL-5	MANU: FLORIDA TILE COLLECTION: AURA COLOR: LIGHT GRAY SIZE: 12 X 24 - 3/8" THICKNESS GROUT: LATICRETE; COLOR: 78 STERLING SILVER INSTALL: RUNNING BOND WITH 1/3 OFFSET	PROVIDE LIQUID APPLIED WATERPROOF MEMBRANE BELOW TILE AND FIRESTOP SEALANT AT FLOOR PENETRATIONS	FLORIDA TILE EMILY FISCHER EMILY.FISCHER@FLORIDATILE.G OM 513.824.1791
		WALL TILE		
TILE - SHOWER WALLS	WT-I	MANU: MOSA COLLECTION: COLORS SIZE: 6X6 COLOR: BEECH GLOSSY GROUT: MAPEI I I; COLOR: SAHARA BEIGE INSTALL: HORIZONTAL RUNNING BOND	BLACK SCHLUTER EDGE	LOUISVILLE TILE ROBYN VIDIC RVIDIC@LOUISVILLE-TILE.COM 513-276-4840
	•	PAINT		
GENERAL PAINT - UNIT AND CORRIDOR WALLS AND CEILING	PT-I	MANU: PPG ARCHITECTURAL COATINGS COLOR: SILVER FEATHER - PPG 1002-1	WALL FINISH: SATIN CEILING FINISH: FLAT	
PAINT - UNIT TRIM	PT-2	MANU: PPG ARCHITECTURAL COATINGS COLOR: IN THE CLOUD - PPG 0999-I	BASE, TRIM, MILLWORK FINISH: SEMI-GLOSS	
PAINT - UNIT ENTRY DOORS CORRIDOR: HISTORIC MILLWORK & STAIR RISERS AS REQ'D PER BUILDING	PT-3	MANU: PPG ARCHITECTURAL COATINGS COLOR: THYME GREEN - PPG 1128-6	FINISH: SEMI-GLOSS	
PAINT - STAIR TREADS AND RAILING BALUSTER AS REQ'D PER BUILDING	PT-4	MANU: PPG ARCHITECTURAL COATINGS COLOR: LICORICE - PPG 1009-7	FINISH: SEMI-GLOSS	
	I	WALL BASE		
HISTORIC WOOD BASE - WHERE ABLE TO RETAIN	WB-I	IN-UNIT: PT-2 STAIR HALL: PT-3	KEEP ALL HISTORIC BASE - REPAIR/RETAIN WHEN PRESENT. PATCH TO MATCH ADJACENT. CLEAN, SAND, AND PAINT.	
TILE BASE - BATHROOMS	WB-2	MANU: FLORIDA TILE COLLECTION: ALUSTRA COLOR: REGAL BLACK - MATTE SIZE: 12 X 24 - 3/8" THICKNESS GROUT: LATICRETE - 45 RAVEN	TILE CUT DOWN ON SITE TO 3 X 24" BLACK SCHLUTER EDGE	LOUISVILLE TILE ROBYN VIDIC RVIDIC@LOUISVILLE-TILE.COM 513-276-4840
TYPICAL NEW PAINTED WOOD BASE - WHERE REQUIRED.	WB-3	CONTRACTOR PROVIDED 1X6 POPLAR W/ TOE MOLDING IN-UNIT: PT-2 STAIR HALL: PT-3		

				SOLID SURFACE		
QUARTZ - KITCHEI BACKSPLASH & COUNTERTOPS THROUGHOUT	N	SS-I		7		BRIAN FORTIN BRIAN.FORTIN@OVSCO.COM 513.582.2528
			1	CASEGOODS	-	
CABINETS - IN UNI COMMERCIAL RR	TS/	CG-I	DOOR S	SMART CABINETS W/ PLYWOOD BOX STYLE: SUMMIT (SOLID WOOD) FULL OVERLAY STAIN - ROOT BEER	DOOR PULLS - MANU: AMEROCK MONUMENT 5-1/16" CENTER TO CENTER CABINET PULL MODEL: BP36571FB FINISH: BLACK	SMART CABINETRY SALES@SMARTCABINETRY.CON 574.831.5010
			_	GLASS		
GLASS SHOWER ENCLOSURE - UNIT BATHROOMS	Г	GL-I	DOOR MODEL: GLASS: A	CELA-935 AQUA GLIDE GLASS CHROME		
			-1	OTHER	-	
BLINDS			FINISH.	(WOOD BLINDS AT ALL RESIDENTIAL UNITS, WHITE VERIFY ALL LOCATIONS WITH OWNER		
UNIT ENTRY SIGNA	AGE		NUMBER	DINATE LOCATIONS WITH ACCESSIBILITY REQUIREMENTS	FINAL LOCATION TO BE DETERMINED BY OWNER	AMAZON https://tinyurl.com/mr37xwxn
BATHROC	OM EC	QUIPN	1ENT	SCHEDULE		
CODE	ITEM			MANUFACTURER & PRODUCT #	MOUNTING HEIGHT	REMARKS
A	GRAB B	ARS		MANU: BOBRICK LINE: B-5806X18 SIZE: (18") X 36 (36") & 42 (42")	PER ELEVATIONS & ACCESSIBILITY REQUIREMENTS	COMMERCIAL BATHROOM
В	DIAPER (CHANGE S	STATION	MANU: KOALA KARE MODEL: KB200-SS HORIZONTAL WALL MOUNTED FINISH: GREY 01	48" A.F.F. MAX MOUNTING HEIGHT TO T.O. STATION. WORKSURFACE WHEN OPEN TO BE 34" MAX - 28" MIN.	COMMERCIAL BATHROOM
CI	MEDICIN	IE CABINE	Т	RECESSED: MANU: KOHLER 16"x20" SINGLE DOOR REVERSIBLE HINGE FRAMELESS MIRRORED MEDICINE CABINET MODEL: K-CB-CLR1620FS SURFACE MOUNTED:	PER ELEVATIONS	UNIT BATHROOMS
C2				RANGAIRE SURFACE MOUNT 16"X22" SINGLE DOOR MEDICINE CABINET WITH REVERSIBLE DOOR SWING MODEL: 4565MX	-	
D	PAPER T	FOWEL DIS	SPENSER	ASI TRADITIONAL PAPER TOWEL DISPENSER MULTI, C-FOLD, SURFACE MOUNTED BLACK MODEL: ASI 0210-41	PER ACCESSIBILITY REQUIREMENTS, 48" MAX TO HIGHEST OPERABLE PART	COMMERCIAL BATHROOM
EI	TOILET DISPEN	TISSUE SER		HARNEY HARDWARE COLLECTION: CLEARWATER TOILER PAPER HOLDER FINISH: MATTE BLACK PRODUCT #10220	PER ELEVATIONS & ACCESSIBILITY REQUIREMENTS	UNIT/COMMERCIAL BATHROOMS
E2	TOWEL	_ HOOK		HARNEY HARWARE COLLECTION: CLEARWATER 24" TOWEL BAR FINISH: MATTE BLACK PRODUCT #10222	48" A.F.F.	UNIT BATHROOMS
E3	ROBE H	IOOK		"HARNEY HARDWARE COLLECTION: CLEARWATER ROBE HOOK FINISH: MATTE BLACK PRODUCT # 10218"	48" A.F.F.	UNIT/COMMERCIAL BATHROOMS
F	MIRROF	٦		MANU: NUTYPE (HOME DEPOT) COLLECTION: MEDIUM RECTANGLE BLACK SHELVES AND DRAWERS MODERN MIRROR SIZE: 24 X 36 FINISH: BLACK	PER ELEVATIONS & ACCESSIBILITY REQUIREMENTS	UNIT/COMMERCIAL BATHROOM



PLATTE architecture + design

KURT PLATTE 10833

KURT PLATTE 10833 EXP DATE 12.31.2023 Progress Dates 2023.04.28 - BID/PERMIT

Revisions

Design Team:
CO, JK, MR, MR, RK, RO, SO, TB
Drawn by:
MR, AM

FINISH SCHEDULE 2

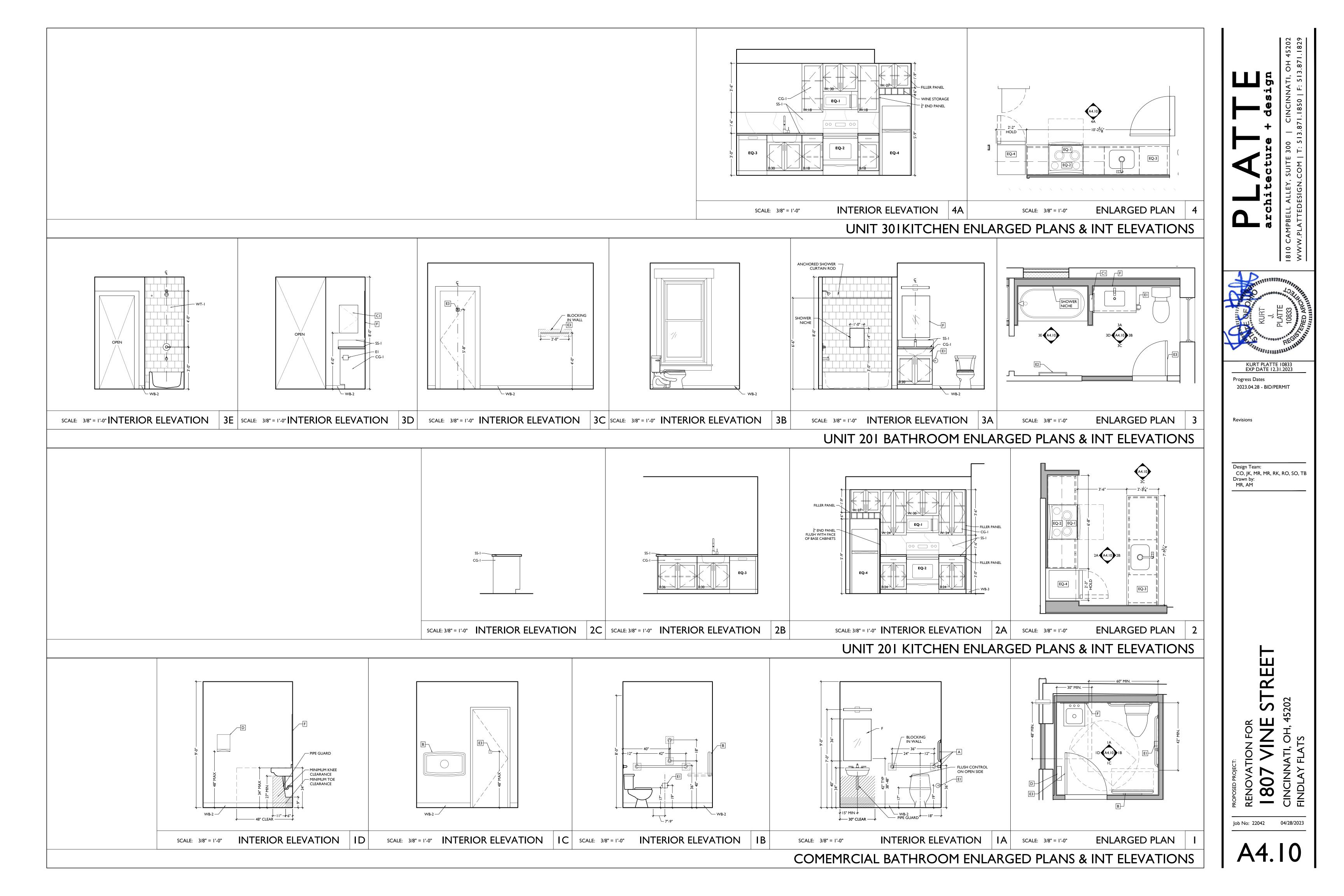
SCALE: 3/8" = 1'-0"

ION FOR VINCE STREET ATI, OH, 45202

RENOVATION 1807 VII

Job No: 22042 04/28/2023

A4.00





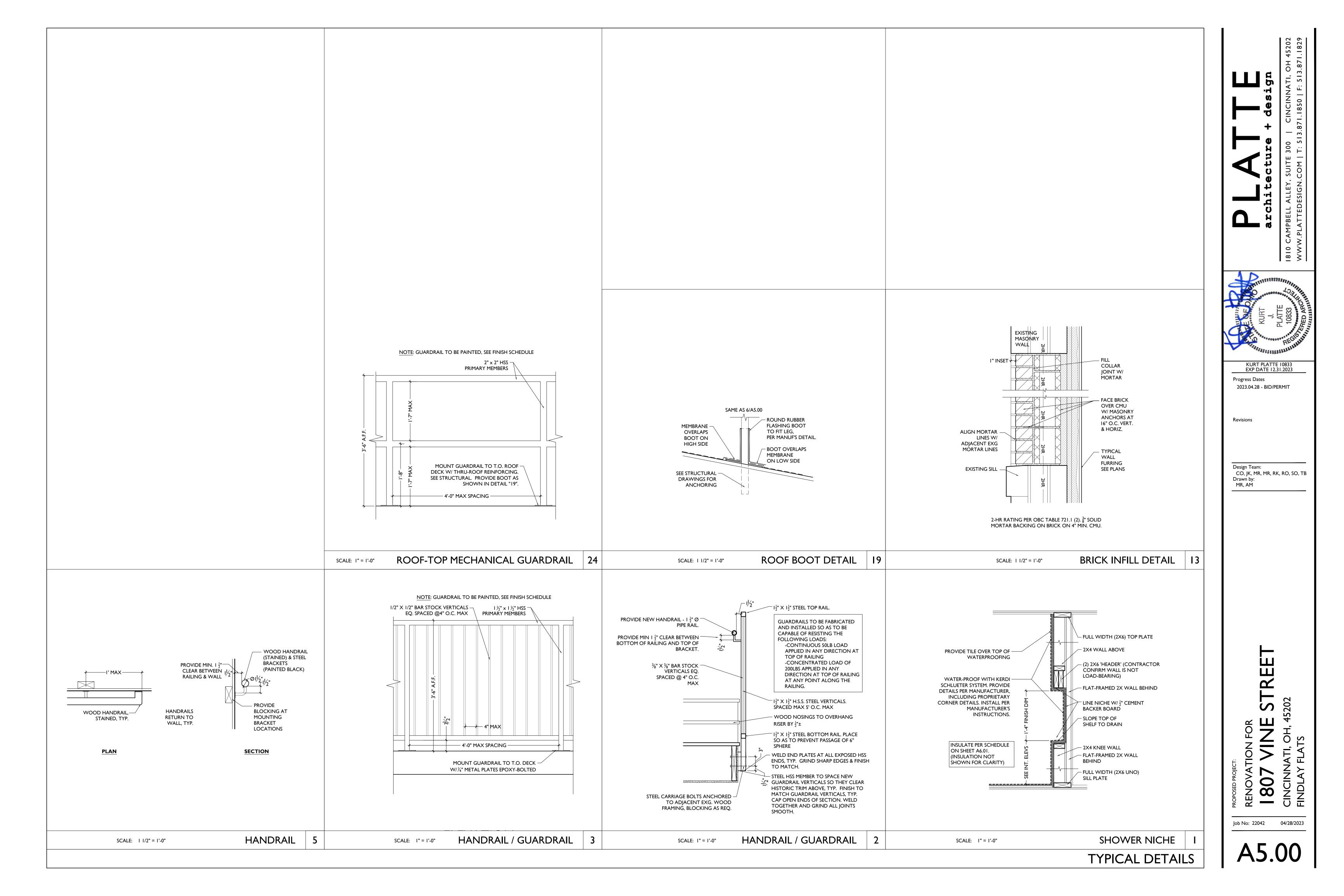
KURT PLATTE 10833 EXP DATE 12.31.2023

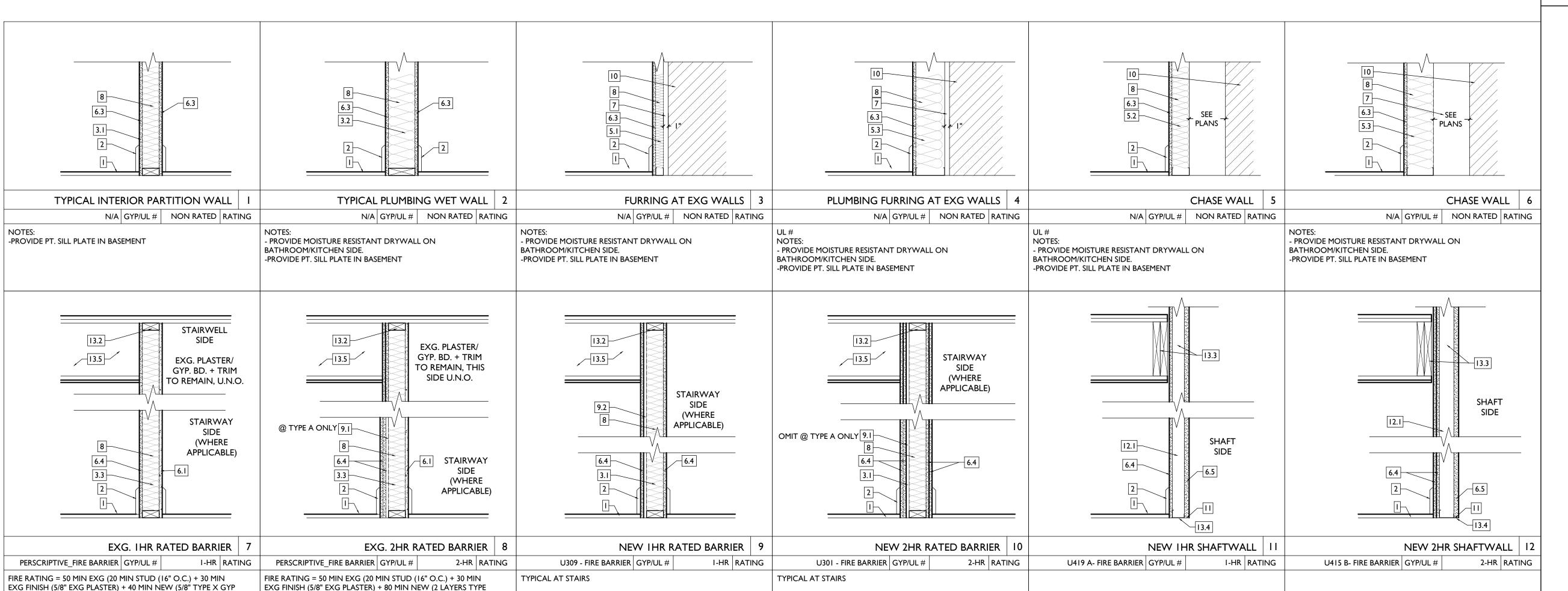
Design Team: CO, JK, MR, MR, RK, RO, SO, TB Drawn by: MR, AM

STREET

Job No: 22042 04/28/2023

A4.20





- IOA - NO RESILIANT CHANNELS

6.1

PERSCRIPTIVE - FIRE BARRIER GYP/UL#

FIRE RATING = 3.8" MIN EXG. SOLID BRICK= 2HR MIN

EXG. MASONRY WALL | 13

2-HR RATING

NOTE: SEE TABLES 721.1(2) AND 722.6 FOR PRESCRIPTIVE FIRE RATINGS. PER 721.1(2) EXCEPTION "E", PLASTER MAY BE SUBSTITUTED FOR GYPSUM WALLBOARD PROVIDED IT IS THE SAME SIZE/THICKNESS/CORE TYPE.

X GYP BD @ 40 MIN EA) = 120 MIN TOTAL FIRE RATING

- 8A - ADD 1/2" RESILIANT CHANNELS I SIDE

INSULATION SCHEDULE LOCATION **R-VALUE** NOTES SOUND ATTENUATION MECHANICAL CLOSET WALLS FILL STUD CAVITY SOUND ATTENUATION **BATHROOM WALLS** FILL STUD CAVITY | FIBERGLASS BATTS STAPLED | R-13 MIN. CONTINUOUS PIPE PLUMBING CHASE WALLS INSULATION AT ALL PLUMBING LINES SOUND ATTENUATION **BETWEEN OFFICE TENANT SPACES** FILL CAVITY SOUND ATTENUATION **BETWEEN DWELLING UNITS** FILL CAVITY **FURRING AT EXTERIOR WALLS** SPRAY-APPLIED CELLULOSE FILL CAVITY SOUND ATTENUATION FILL CAVITY & COORD W/ STAIR HALL ENCLOSURE WALLS FIRE-RATING & UL ASSEMBLY BLOWN-IN CELLULOSE OR R-19 MIN. STAIR HALL ENCLOSURE WALLS AT FILL CAVITY FIBERGLASS BATTS UNCONDITIONED ATTIC **CLG BETWEEN ATTIC FLOOR AND** BLOWN-IN CELLULOSE OR INSULATION BETWEEN OCCUPIED UNIT BELOW FIBERGLASS BATTS COORD W/ UL ASSEMBLY & CEILING BETWEEN BASEMENT/RESIDENTIAL CLOSED CELL SPRAY FOAM R-30 FIRE RATING REQ INSULATION PROVIDED NONE REQ ATTIC CEILING @ ATTIC FLOOR CLOSED CELL SPRAY FOAM CEILING OF OCCUPIED ATTIC FILL CAVITY & COORD W/ CEILING B/W BREEZEWAY/OCCUPIED SPACE | FIBERGLASS BATTS FIRE-RATING & UL ASSEMBLY 6" MIN SOUND COORD W/ UL ASSEMBLY & CEILING B/W TWO SEPARATE OCCUPIED SOUND ATTENUATION FIRE RATING 6" MIN SOUND SOUND ATTENUATION CEILING B/W FLOORS OF SAME RESIDENCE

NOTES: COORDINATE ALL W/ FIRE RATING & U.L. ASSEMBLY.

BD) = 90 MIN TOTAL FIRE RATING

MATERIAL:	ITEM NUMBER	MIN. EQL	JIV. THICK	NESS / RATING
		3 HR	2 HR	I HR
I. CLAY OR SHALE BRICK: SOLID BRICK	1-1.1	4.9"	3.8"	2.7"

GENERAL NOTES

FURRING AT EXG WALLS | 15

N/A GYP/UL # NON RATED RATING

- PROVIDE MOISTURE RESISTANT DRYWALL ON

BATHROOM/KITCHEN SIDE.

-PROVIDE PT. SILL PLATE IN BASEMENT

STC - 50-54 STC

I-HR RATING

NEW 1HR RATED UNIT SEPERATION | 14

U309 - FIRE PARTITIONS GYP/UL#

TYPICAL UNIT SEPERATION/CORRIDOR WALLS

GENERAL NOTES:

ALL MOISTURE RESISTANT DRYWALL TO BE PAPERLESS BOARD OR EQUIVALENT, AND TO BE USED ON ALL VERTICAL AND HORIZONTAL SURFACES THAT ARE WITHIN FOUR FEET OF ANY WATER SOURCES. IE. SHOWERS/TUBS, SINKS, WATER HEATERS, CLOTHES WASHER, ETC.

FIRE RATINGS AS INDICATED ON PLANS AND PARTITIONS/ASSEMBLIES

WALL ASSEMBLIES/ PARTITION TYPES

KEYED NOTES:

- FINISHED FLOOR -SEE FINISH SCHEDULE SCHEDULED BASE - SEE FINISH SCHEDULE
- 3. WOOD WALL FRAMING 3.1. 2X4 WALL FRAMING @ 16" O.C.
- 3.2. 2X6 WALL FRAMING @ 16" O.C.
- 3.3. EXG. FRAMED WALL 4. MASONRY WALL 4.1. EXISTING MASONRY WALL (SEAL
- WHERE EXPOSED) 4.2. 8" CMU
- 4.3. 4" CMU
- 4.4. BRICK VENEER 5. METAL WALL FRAMING (NEW OR EXG)
- 5.1. I 5/8" METAL STUD FURRING @ 16" O.C. 5.2. 3 5/8" METAL STUD @ 16" O.C.
- 5.3. 6" METAL STUD @ 16" O.C. 5.4. 7/8" HAT CHANNEL @ 16" O.C.
- 6. GYPSUM BOARD
- 6.1. EXG. GYP/PLASTER
- 6.2. 1/2" 6.3. 5/8" GYP.
- 6.4. 5/8" TYPE X 6.5. I" NOMINAL GYP. LINER
- 6.6. I/2" TYPE C 7. AIR GAP AS REQUIRED PER ASSEMBLY TYPE
- INSULATION PER SCHEDULE 9. RESILIENT CHANNELS 9.1. $\frac{1}{2}$ " METAL CHANNELS @ 24" O.C. RUN
- HORIZONTAL
- 9.2. §" METAL CHANNELS @ 16" O.C. RUN HORIZONTAL
- EXG. WALL J - TRACK 12. C- H STUD
- 12.1. 2 ½" C-H @ 24" O.C. 12.2. 4" C-H @ 24" O.C.
- 13. FLR/CLG FRAMING
- 13.1. RATED ASSEMBLY TO BE CONTINUOUS TO RATED PARTITION OR WALL, REFER TO FLR/CLG ASSEMBLIES AND RATING DIAGRAMS FOR DTLS
- 13.2. EXTEND RATED ASSEMBLY TO UNDERSIDE OF FLOOR SHEATHING
- 13.3. WALL STRUCTURE TO BE INDEPENDENT OF AND CONTINUE THROUGH FLR/CLG. ASSEMBLY. SEE STRUCTURAL FOR FRAMING OF FLR/CLG ASSEMBLY. SEE FLR/CLG ASSEMBLIES AND RATING DIAGRAMS FOR FLR/CLG ASSEMBLY
- 13.4. FRAMING TO BEAR ON FLOOR OF EQUAL RATING. SEE FLR/CLG.
- ASSEMBLIES AND RATING DIAGRAMS. 13.5. SEE FLR/CLG. ASSEMBLIES AND RATING DIAGRAMS FOR HORIZONTAL ASSEMBLY
- 14. HARDIE BOARD SIDING
- 15. $\frac{1}{2}$ " OSB SHEATHING WITH INTEGRAL AIR/MOISTURE BARRIER

ASSEMBLY & PARTITION

A.A. B.O.D. MOISTURE RESISTANT DENSGLASS. PROVIDE

Ш 80

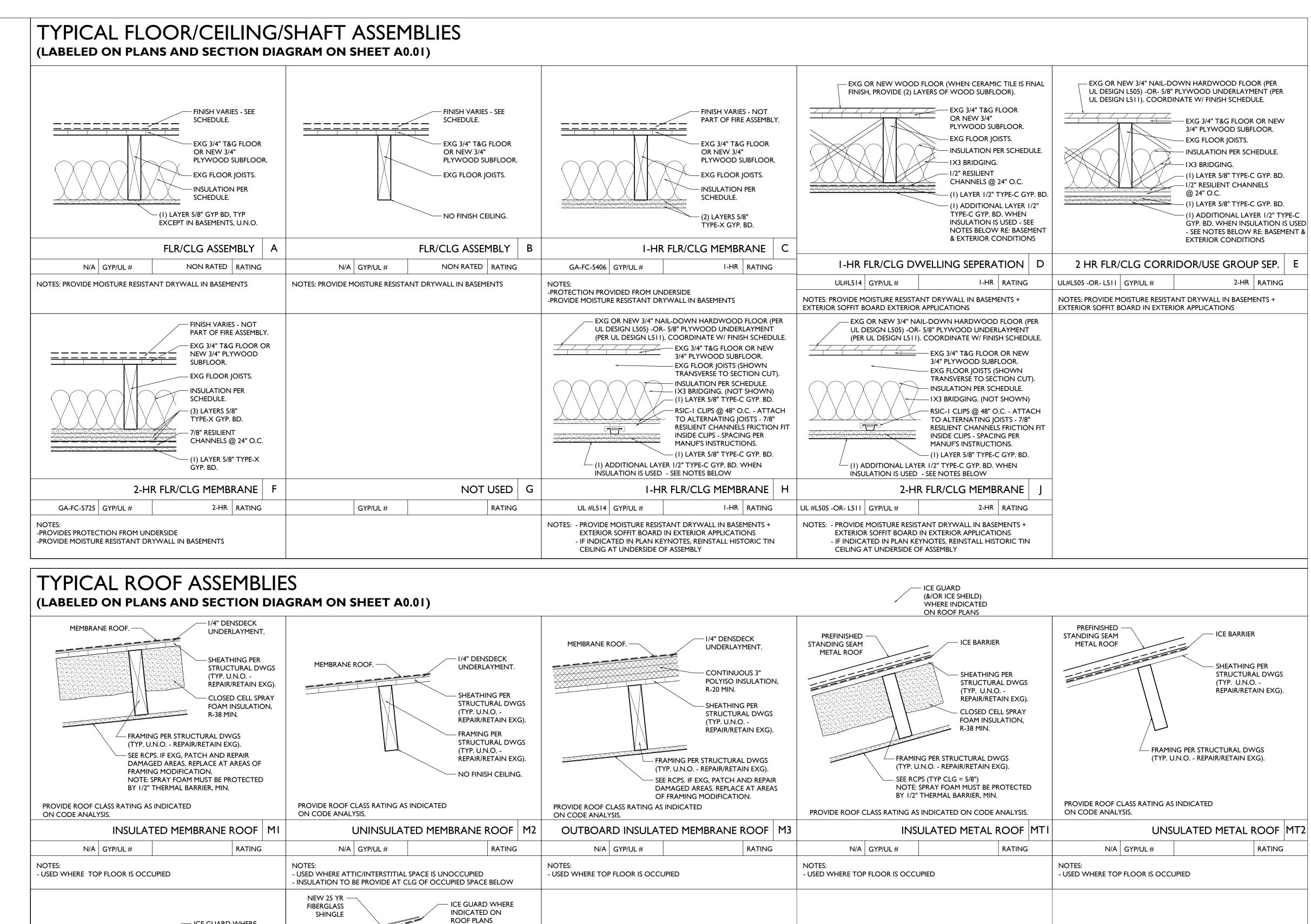
KURT PLATTE 10833 EXP DATE 12.31.2023

Design Team: CO, JK, MR, MR, RK, RO, SO, TB

2023.04.28 - BID/PERMIT

Progress Dates

Drawn by:



ICE GUARD WHERE

SHEATHING PER

STRUCT DWGS

REPAIR/RETAIN

STRUCT DWGS (TYP UNO-

REPAIR/RETAIN

NO FINISH CEILING.

RATING

(TYP UNO-

EXISTING) FRAMING PER

EXISTING)

UNINSULATED SHINGLE ROOF | SI

PLANS

INDICATED ON ROOF

SHEATHING PER STRUCT

EXISTING)

SCHEDULE

(TYP UNO-

NOTE: SPRAY FOAM MUST BE PROTECTED

INSULATED SHINGLE ROOF | S2

- SEE RCPS (TYP CLG = $\frac{5}{8}$ ")

PROVIDE ROOF CLASS RATING AS INDICATED

ON CODE ANALYSIS.

N/A GYP/UL#

- USED WHERE TOP FLOOR IS OCCUPIED. - COORDINATE W/ INSULATION SCHEDULE

BY 1/2" THERMAL BARRIER, MIN.

INSULATION PER

FRAMING PER STRUCT

REPAIR/RETAIN EXISTING)

RATING

(TYP UNO- REPAIR/RETAIN

NEW 25 YR -

SHINGLE

PROVIDE ROOF CLASS RATING AS INDICATED

N/A GYP/UL#

FIBERGLASS

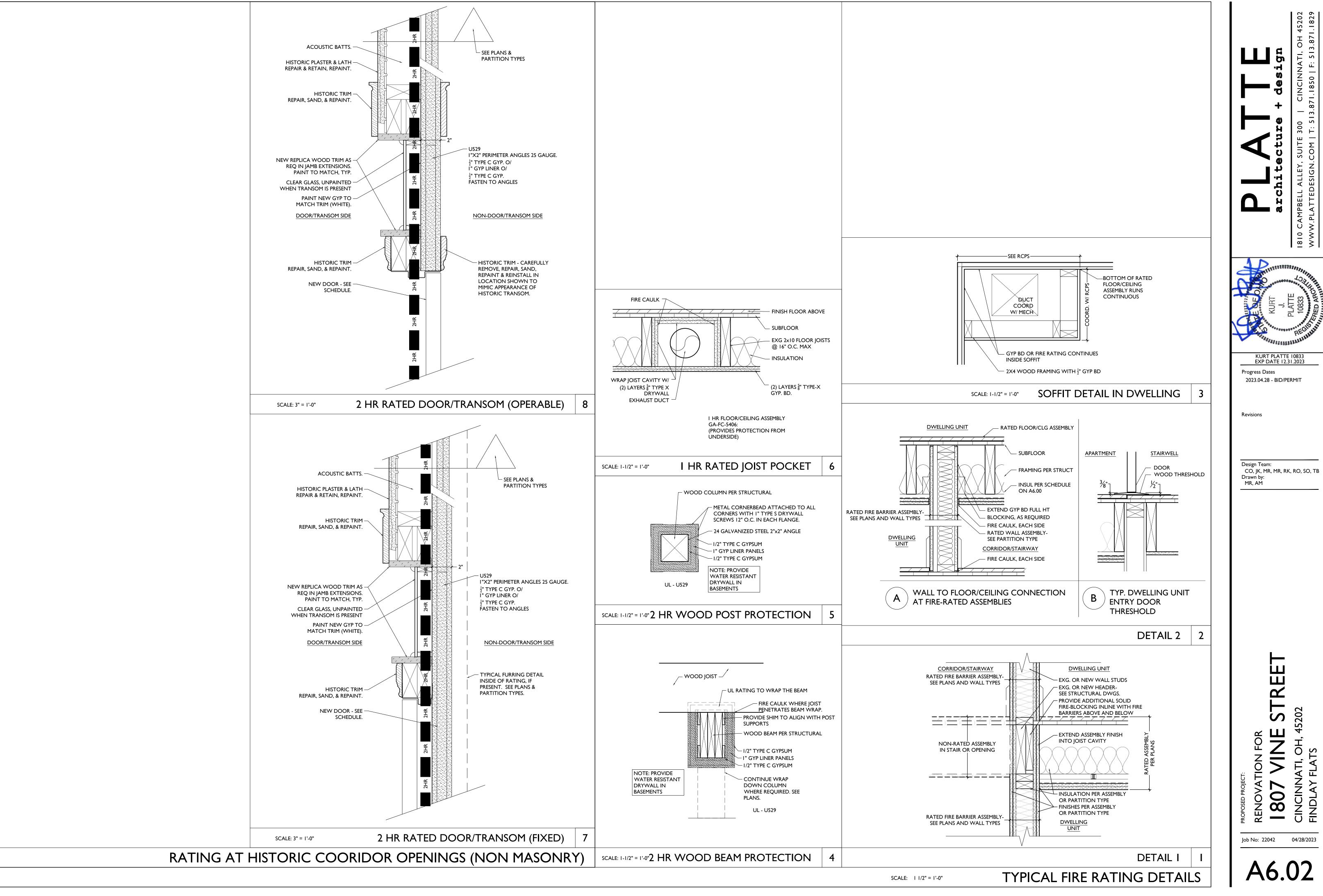
ON CODE ANALYSIS.

EXP DATE 12.31.2023 Progress Dates 2023.04.28 - BID/PERMIT CO, JK, MR, MR, RK, RO, SO, TB Drawn by: MR, AM Ш

> 8 Job No: 22042 04/28/2023

ASSEMBLY TYPES

SCALE: | 1/2" = 1'-0"



HARI	DWARE SCHE	DULE	CALL OUT LEGENDS
HDWR	М	DESCRIPTION	DOOR FINISHES (ALSO SEE A4.00 AND A8.00-8.01)
CISTING DO	OORS TO REMAIN		FF DOOR TO BE FACTORY FINISHED AS PART OF NEW STOREFRONT SYSTEM. SEE
H01	EXISTING TO REMAIN	EXISTING HARDWARE SET TO REMAIN	STOREFRONT TYPES ON A6.12. PT AT EXTERIOR DOORS: SEE EXTERIOR PAINT SCHEDULE ON A8.00-A8.01.
W COMMI	ERCIAL DOORS		AT INTERIOR DOORS: SEE FINISH SCHEDULE ON A4.00. WL WOOD LOOK
H02	EXTERIOR COMMERCIAL DOOR (TYPICAL)	ENTRY LOCKSET OUTSIDE KEYLOCK (LOCKED FROM OUTSIDE) LEVER HANDLES INSIDE KEYLOCK W/ SINGLE ACTION LEVER RELEASE: MECHANISM RELEASES DEADBOLT WHEN INTERIOR HANDLE IS TURNED. MEETS EMERGENCY EGRESS REQUIREMENT. I-1/2 PAIR HINGES (I) CLOSER WALL/FLOOR STOP WEATHER SEALS	FRAME TYPES (ALSO SEE A6.11) FI HISTORIC FRAME/TRIM TO REMAIN - REPAIR/REPLICATE MISSING PIECES AS REQ F2 NEW METAL FRAME - SEE DTLS 1-5/A6.11 AND TYPICAL TRIM DTLS A6.11 F3 NEW METAL FRAME - SEE DTLS 1-5/A6.11 - TRIM TO MATCH EXG ADJ. HISTORIC TRIM F4 NEW WOOD FRAME - SEE DTLS 7-8/A6.11 AND TYPICAL DOOR TRIM DTLS A6.11 F5 NEW WOOD FRAME - SEE DTLS 7-8/A6.11 - TRIM TO MATCH EXG ADJ. HISTORIC TRIM
H02A	EXTERIOR COMMERCIAL DOOR (WITH PANIC HARDWARE)	ENTRY LOCKSET W/ PANIC HARDWARE • RATED HARDWARE • PANIC HARDWARE TO BE EXIT ONLY • OUTSIDE KEY LOCK, INSIDE ALWAYS UNLOCKED • (3) HINGES • (1) CLOSER • WALL/FLOOR STOP • WEATHER SEALS	SF PART OF STOREFRONT SYSTEM - SEE A6.12 NOTE: FRAMES TO BE PAINTED, UNO. SEE FINISH SCHEDULE AND EXTERIOR PAINT SCHEDULE FOR MORE INFORMATION. TRANSOM TYPES (ALSO SEE A6.11)
H02B	EXTERIOR COMMERCIAL DOOR (DOUBLE)	ENTRY LOCKSET OUTSIDE KEYLOCK (LOCKED FROM OUTSIDE) LEVER HANDLES INSIDE KEYLOCK W/ SINGLE ACTION LEVER RELEASE: MECHANISM RELEASES DEADBOLT WHEN INTERIOR HANDLE IS TURNED. MEETS EMERGENCY EGRESS REQUIREMENT. 2x(3) HINGES (2) CLOSER WALL/FLOOR STOP WEATHER SEALS	TRI NEW HOLLOW METAL FRAMED TRANSOM TR2 HISTORIC TRANSOM TRIM & GLAZING TO REMAIN. REPAIR/REPLICATE MISSING PIECES AS REQ TR3 NEW WOOD TRANSOM TRIM TO MATCH EXG ADJACENT HISTORIC TRIM OF DOOR - WITH NEW TEMPERED GLAZING TR4 HISTORIC TRANSOM TRIM TO REMAIN. REPAIR/REPLICATE MISSING PIECES AS REQ'D. INSTALL NEW CLEAR GLAZING. SF NEW TRANSOM TO BE PART OF STOREFRONT SYSTEM. SEE STOREFRONT TYPES.
H02B1	EXTERIOR COMMERCIAL DOOR (DOUBLE FIXED)	• I-1/2 PAIR HINGES • (4) PUSH PLATE • (2) FLOOR BOLT • WEATHER SEALS	
H03	INTERIOR COMMERCIAL DOOR	ENTRY LOCKSET OUTSIDE KEYLOCK (LOCKED FROM OUTSIDE) LEVER HANDLES INSIDE KEYLOCK W/ SINGLE ACTION LEVER RELEASE: MECHANISM RELEASES DEADBOLT WHEN INTERIOR HANDLE IS TURNED. MEETS EMERGENCY EGRESS REQUIREMENT. I-1/2 PAIR HINGES (I) CLOSER SMOKE SEAL WALL/FLOOR STOP	SCHEDULE NOTES I. EXISTING HISTORIC OPENING:
H05	COMMERCIAL RESTROOM (SINGLE USER)	PRIVACY LOCKSET • INSIDE THUMB LOCK • LEVER HANDLES • (3) HINGES • KICK/MOP PLATE • WALL/FLOOR STOP	 I.A. EXISTING HISTORIC DOOR (& TRANSOM, IF APPLICABLE) TO REMAIN IN SITU. REPAIR AS REQ. CONTRACTOR TO PROVIDE ALLOWANCE FOR DOOR REPAIR FOR ALL EXG. DOORS TO REMAIN. I.B. EXISTING HISTORIC DOOR IS TO BE FIXED IN PLACE. SEE PLANS. I.C. OPENING TO HAVE RELOCATED HISTORIC DOOR. SEE EXISTING PLANS FOR PREVIOUS LOCATION AND NEW WORK PLANS FOR NEW LOCATION.
H06	DOOR TO BASEMENT/MECHANICAL CLOSET	STORAGE LOCKSET RATED HARDWARE WHERE REQUIRED OUTSIDE KEY LOCK, INSIDE ALWAYS UNLOCKED ACCESSIBLE BY LANDLORD ONLY (3) HINGES WALL/FLOOR STOP	 I.D. OPENING TO HAVE RELOCATED HISTORIC FRAME/TRIM. SEE EXISTING PLANS FOR PREVIOUS LOCATION AND NEW WORK PLANS FOR NEW LOCATION. I.E. NEW OPERABLE DOOR IN HISTORIC OPENING. I.F. HISTORIC POCKET DOORS TO BE RESTORED TO ORIGINAL FUNCTION AND OPERATION.
EW COMM	ON RESIDENTIAL DOORS		2. EXISTING TRANSOM TO BE INFILLED BEHIND WITH GYP. BD. TO MAINTAIN FIRE RATING. SEE DETAILS ON A6.03.
HI0	DOOR FROM STAIR/CORRIDOR TO EXTERIOR	EGRESS LOCKSET W/ ELECTRONIC ACCESS CONTROL OUTSIDE ALWAYS LOCKED, INSIDE ALWAYS UNLOCKED LEVER HANDLES ELECTRONIC ACCESS CONTROL (INTERCOM OR KEY FOB) ELECTRIC STRIKE I LOCKSET I-1/2 PAIR HINGES (I) CLOSER WALL/FLOOR STOP WEATHER SEALS	 PROVIDE HOLD OPEN FOR THIS DOOR - SEE HARDWARE SCHEDULE. PROVIDE HINGES THAT ALLOW FOR EASY DOOR REMOVAL DURING LAUNDRY UNIT INSTALLATION & MAINTENANCE. DOOR TO BE UNDERCUT. SEE MECHANICAL DRAWINGS. DOOR(S) TO BE FIXED IN PLACE AND INOPERABLE. PROVIDE VIEW HOLE AT 48" A.F.F., CENTERED IN DOOR.
HI0AB	DOOR FROM STAIR/CORRIDOR TO ATTIC	STORAGE LOCKSET RATED HARDWARE OUTSIDE KEY LOCK, INSIDE ALWAYS UNLOCKED (3) HINGES (1) CLOSER SMOKE SEAL WALL/FLOOR STOP	
EW PRIVAT	E RESIDENTIAL DOORS	ENTRY LOCKSET	
HROI	RESIDENTIAL UNIT ENTRY DOOR	• RATED HARDWARE • LOCKSET VV • THUMB TURN DEADBOLT. • (3) HINGES • (1) SPRING CLOSER • WIDE ANGLE VIEWER • WALL/FLOOR STOP • SMOKE SEAL • DOOR SWEEP	GENERAL NOTES
HR02	TYPICAL BEDROOM AND BATHROOM	• RUBBER THRESHOLD (LOW PROFILE) PRIVACY LOCKSET • (1) LOCKSET • (3) HINGES • WALL/FLOOR STOP • WOOD "T" THRESHOLD	THIS IS A HISTORIC TAX CREDIT PROJECT WITH SENSITIVE HISTORIC MATERIALS, INCLUDING DOORS & TRIM. DO NOT REMOVE ANY HISTORIC DOORS OR TRIM UNLESS INDICATED IN THESE DRAWINGS & IN THE SHPO NARRATIVE. DOOR FRAMES A FLIRNISH AND INISTALL ALL DOOR FRAMES AS SHOWN ON THE DRAWINGS AND IN
HR03	DOOR TO MECHANICAL CLOSET	STORAGE LOCKSET OUTSIDE KEY LOCK, INSIDE ALWAYS UNLOCKED ACCESSIBLE BY LANDLORD ONLY (3) HINGES WALL/FLOOR STOP WOOD "T" THRESHOLD	 A. FURNISH AND INSTALL ALL DOOR FRAMES AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH FINAL SHOP DRAWINGS AND MANUFACTURER'S DATA AND INSTRUCTIONS. B. SUBMIT SHOP DRAWINGS FOR FABRICATION AND INSTALLATION OF FRAMES. INCLUDE DETAILS OF EACH FRAME TYPE, CONDITIONS AT OPENINGS, DETAILS OF CONSTRUCTION
HR04	SINGLE DOOR TO CLOSET/STORAGE/LAUNDRY	PASSAGE LOCKSET • (3) HINGES • WALL/FLOOR STOP	LOCATION, AND INSTALLATION REQUIREMENTS OF FINISH HARDWARE AND REINFORCEMENTS, AND DETAILS OF JOINTS AND CONNECTIONS. SHOW ANCHORAGE AND ACCESSORY ITEMS. PROVIDE SCHEDULE OF FRAMES USING SAME REFERENCE FOR
HR04A	DOUBLE <u>SWINGING</u> DOOR TO CLOSET/STORAGE	• WALDFLOOR STOP CLOSET PULLS • DUMMY LEVER HANDLES • BALL CATCHES • 3 PAIR HINGES	DETAILS AND OPENINGS AS THOSE ON CONTRACT DRAWINGS. C. NEW FRAMES SHALL HAVE UL LABELS TO MATCH RATING NOTED IN DOOR SCHEDULE. D. SET AND BRACE ALL DOOR FRAMES. FRAMES SHALL BE PREPARED FOR HARDWARE PER TEMPLATES FURNISHED BY HARDWARE SUPPLIER.
ALL HARDW. PINCHING O ALL HARDW EXTERIOR HI TO BE POWE ALL HARDW	OR GRASPING THE DEVICE. VARE TO BE SATIN CHROME, STAINLESS S' INGES, KICK PLATES TO BE US32D, INTERI DER COAT TO MATCH. VARE TO BE AS SPECIFIED OR APPROVED E	OF EGRESS ALWAYS WITHOUT KNOWLEDGE, KEY OR TIGHT TEEL AND POWDER COAT TO MATCH. EXIT DEVICES, OR HINGES, LOCKSETS, WALL STOPS US26D, DOOR CLOSERS EQUAL. DE I (MORTISE LOCK FOR TOILETS WITH INDICATOR).	E. COORDINATE LOCATIONS FOR OTHER TRADES TO BUILD IN THEIR WORK AS REQUIRED. DOORS F. FURNISH AND INSTALL ALL DOORS AS SHOWN ON THE DRAWINGS AND IN ACCORDANG WITH FINAL SHOP DRAWINGS AND MANUFACTURER'S DATA AND INSTRUCTIONS. G. SUBMIT DOOR MANUFACTURER'S PRODUCT DATA SPECIFICATIONS AND INSTALLATION
COORDIN (ND SERIES FORMAT K B. EXIT DEVIG SERIES), VC C. DOOR CL	IATE KEYING REQUIREMENTS WITH OWN S), SARGENT (10 LINE). KEY SYSTEM - PRO' KEY SYSTEM), 5 MASTER KEYS, 3 CHANGE CES ARE BASED ON PRECISION 2100 SERIE DN DUPRIN (98 SERIES)	NER. APPROVED MANUFACTURERS: BEST (9K3 SERIES), SCHLAGE VIDE MASTER SYSTEM (KEY INTO OWNER'S EXISTING SMALL KEYS PER CYLINDER. S GRADE I. APPROVED MANUFACTURERS: PRECISION (2100 SERIES): STADE I. PROVIDE WITH FULL COVER. APPROVED	 INSTRUCTIONS FOR EACH TYPE OF DOOR. PROVIDE SCHEDULE OF DOORS USING SAME REFERENCE FOR DETAILS AND OPENINGS AS THOSE ON CONTRACT DRAWINGS. H. EXTERIOR DOORS TO BE INSULATED, THERMALLY BROKEN WITH WEATHERSTRIPPING, AN PROVIDED WITH ACCESSIBLE THRESHOLD. I. GLAZING IN DOOR LITES AND SIDE LITES SHALL BE CLEAR SAFETY GLASS, 1/4" THICKNESS, UNLESS OTHERWISE NOTED. WIRED GLASS, IS NOT ALLOWED. GLASS FRAMES IN DOORS SHALL HAVE FLUSH STOPS.

SEE PLANS FOR REQUIRED FIRE RATINGS.

NOT FIT, CONTACT ARCHITECT.

DOOR MAY FREELY MOVE ABOVE FINISH FLOOR MATERIAL.

K. FIT DOORS TO FRAMES WITH MINIMUM UNIFORM CLEARANCES AND BEVELS. DOORS SHALL BE PREPARED FOR HARDWARE AS REQUIRED BY HARDWARE SCHEDULE. SEAL DOOR EDGE SURFACES ACTED BY ITTING AND MACHINING. PROVIDE DOOR CLEARANCES SO THAT

L. VERIFY SIZE OF ALL EXISTING DOORS AND DOOR OPENINGS IN FIELD. WHERE HISTORIC DOORS ARE BEING RELOCATED, VERIFY DOOR FITS IN NEW LOCATION. IF DOOR DOES

A. HINGES.

A. HINGE SIZE, DOORS UP TO 3 FEET WIDE 4-1/2" X 4-1/2", DOORS WIDER THAN 3 FEET TO BE 5" X 4-1/2".

B. HINGE QUANTITY - 3 HINGES PER DOOR LEAF FOR DOORS UP TO 7'6". PROVIDE 4 HINGES FOR DOORS TALLER THAN 7'6".

5. COORDINATE KEYING REQUIREMENTS WITH OWNER.

7. PROVIDE INTERCHANGEABLE CORES

6. COORDINATE ELECTRONIC ACCESS CONTROL REQUIREMENTS WITH OWNER

DOOR NO.	LOCATION	DOOR				FRAME		HDW	REMARKS		
		WIDTH	HEIGHT	TYPE	FINISH	TYPE	TRANSM	FINISH	TYPE	RATING	NOTES
FIRST FL	.OOR										
100-1	ENTRY STAIR	EXG OPG - V.I.F.	EXG OPG - V.I.F.	DM7	PT	F2		PT	HI0		IE
100-2	BASEMENT	EXG OPG - V.I.F.	EXG OPG - V.I.F.	DMI	PT	F2		PT	H06	90 MIN	4
101-1	COMMERCIAL ENTRY	EXG OPG - V.I.F.	EXG OPG - V.I.F.	DA2	FF	SF	SF	FF	H02		
101-2	RESTROOM	3'-0"	7'-0"	DWI	PT	F4		PT	H05		
101-3	REAR ENTRY	EXG OPG - V.I.F.	EXG OPG - V.I.F.	DM8	PT	F2	TRI	PT	H02		7
SECOND	FLOOR										
201-1	UNIT ENTRY	2'-8"	7'-0"	DMI	PT	F3		PT	HR01	90 MIN	
201-2	LAUNDRY	EXG	EXG	EXG	PT	FI		PT	HOI		4
201-3	CLOSET	2'-0"	7'-0"	DWI	PT	F3		PT	HR04		
201-4	BEDROOM	EXG	EXG	EXG	PT	FI		PT	HOI		
201-5	CLOSET	4'-0"	7'-0"	DWI	PT	F3		PT	HR04A		
201-6	BATHROOM	2'-6"	7'-0"	DWI	PT	F3		PT	HR02		5
THIRD F	LOOR										
300-I	ATTIC ACCESS	EXG	EXG	EXG	PT	FI		PT	HI0AB		IA
301-1	UNIT ENTRY	EXG OPG - V.I.F.	EXG OPG - V.I.F.	DMI	PT	FI	TR4	PT	HR01	90 MIN	IE, 2
301-2	BATHROOM	2'-6"	7'-0"	DWI	PT	F3		PT	HR02		5
301-3	MECHANICAL	2'-2"	7'-0"	DWI	PT	F3		PT	HR04		4
301-4	CLOSET	4'-4"	7'-0"	DWI	PT	F3		PT	HR04A		
302-1	UNIT ENTRY	EXG OPG - V.I.F.	EXG OPG - V.I.F.	DMI	PT	FI	TR4	PT	HR01	90 MIN	IE, 2
302-2	MECHANICAL	EXG	EXG	EXG	PT	FI		PT	HR04		IA, IC
302-3	LAUNDRY	EXG	EXG	EXG	PT	FI		PT	HR04		IC, ID, 4
302-4	CLOSET	EXG	EXG	EXG	PT	FI		PT	HR04		IC, ID
302-5	BATHROOM	EXG	EXG	EXG	PT	FI		PT	H01		IA, 5
ATTIC											
401-1	ATTIC ENTRY	3'-0"	6'-8"	DMI	PT	F2		PT	HI0AB	90 MIN	
402-I	ATTIC ENTRY	3'-0"	6'-8"	DMI	PT	F2		PT	HI0AB	90 MIN	

PLATTE architecture + design

KURT J. PLATTE J. PLATTE J. J. PLATTE

KURT PLATTE 10833 EXP DATE 12.31.2023 Progress Dates 2023.04.28 - BID/PERMIT

Revisio

Design Team:
CO, JK, MR, MR, RK, RO, SO, TB
Drawn by:
MR, AM

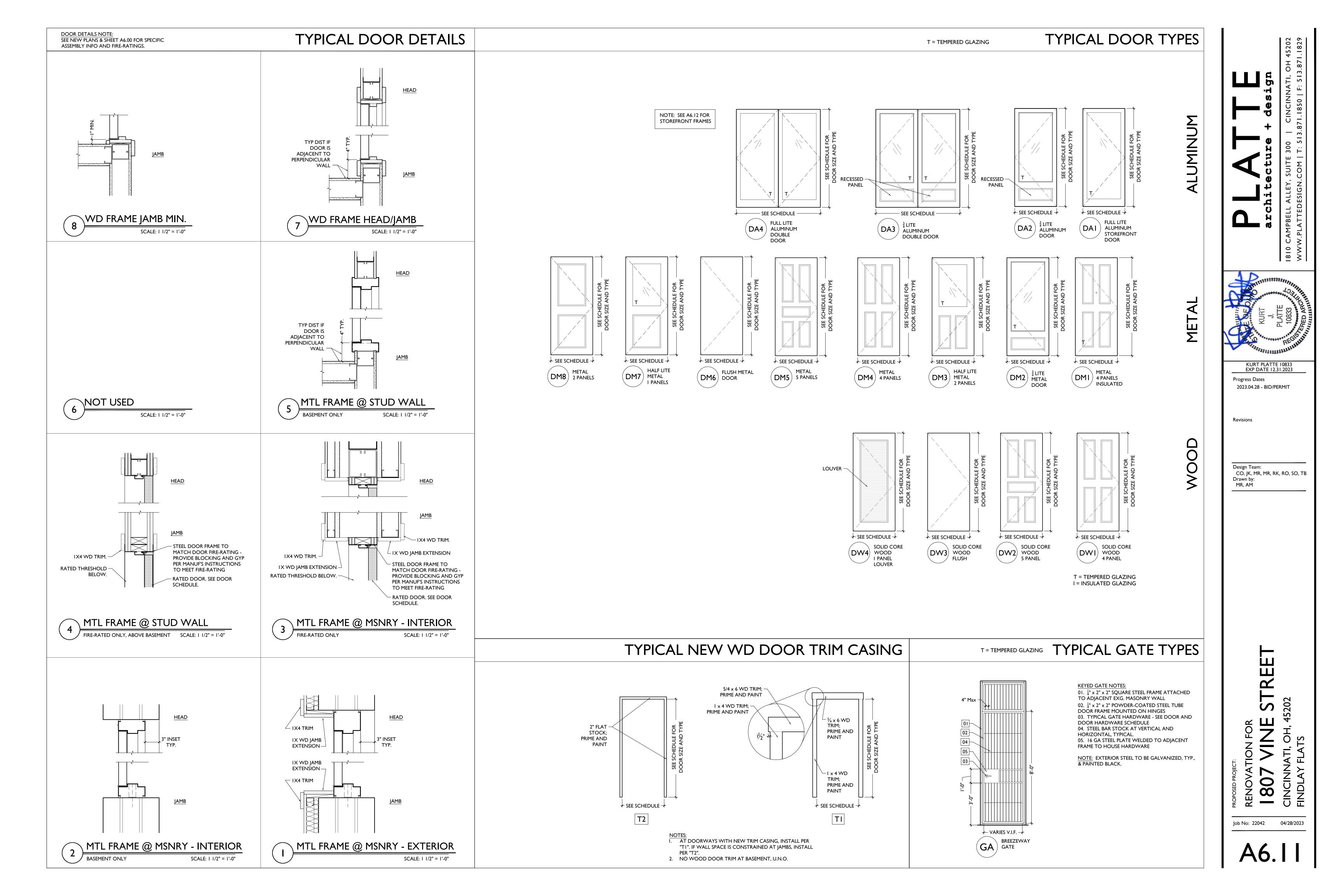
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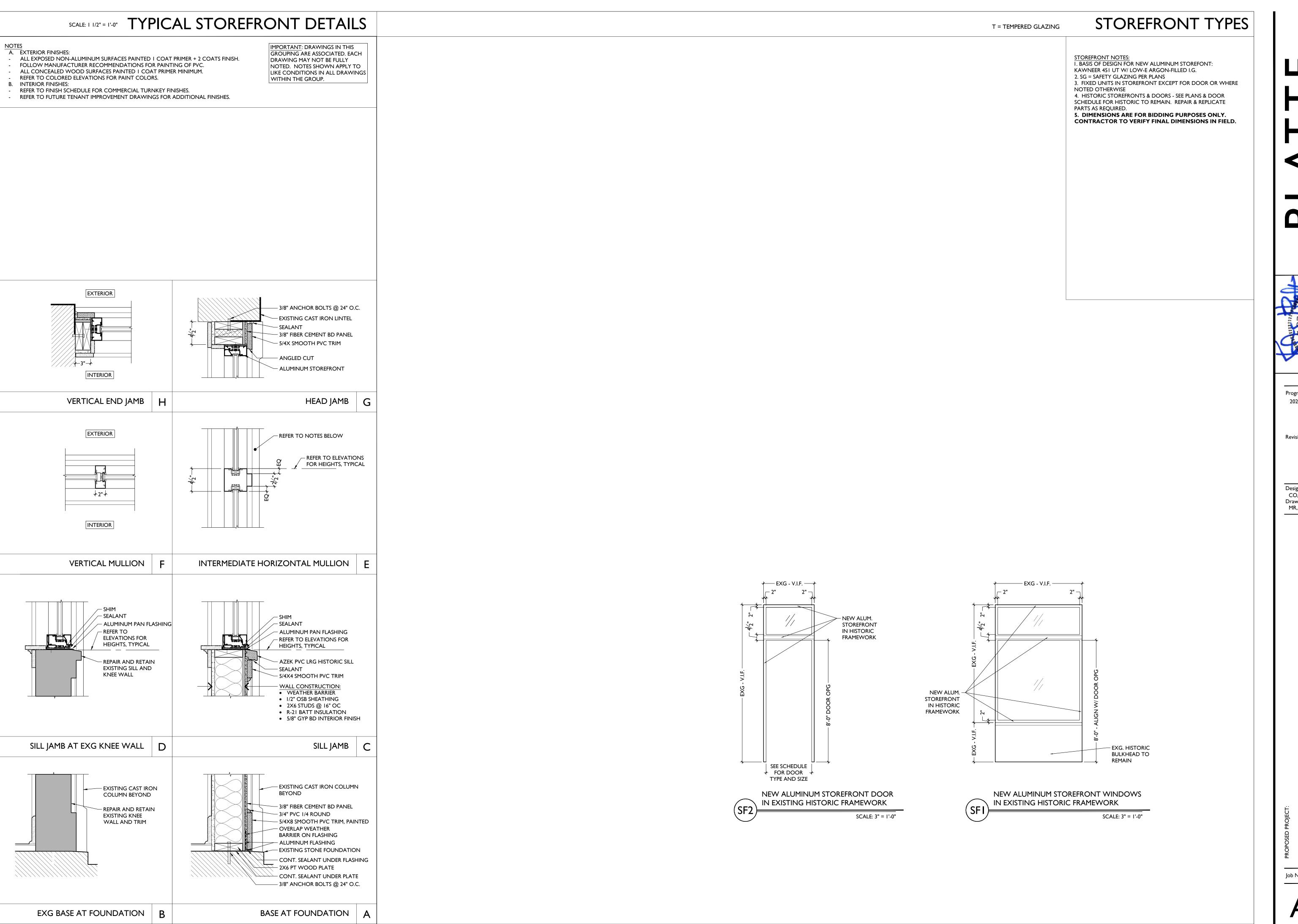
RENOVATION | 807 VII

Job No: 22042 04/28/2023

A6.10

DOOR SCHEDULE





LAT TE

KURT PLATTE 10833 EXP DATE 12.31.2023 Progress Dates 2023.04.28 - BID/PERMIT

Revisions

Design Team:
CO, JK, MR, MR, RK, RO, SO, TB

Drawn by:
MR, AM

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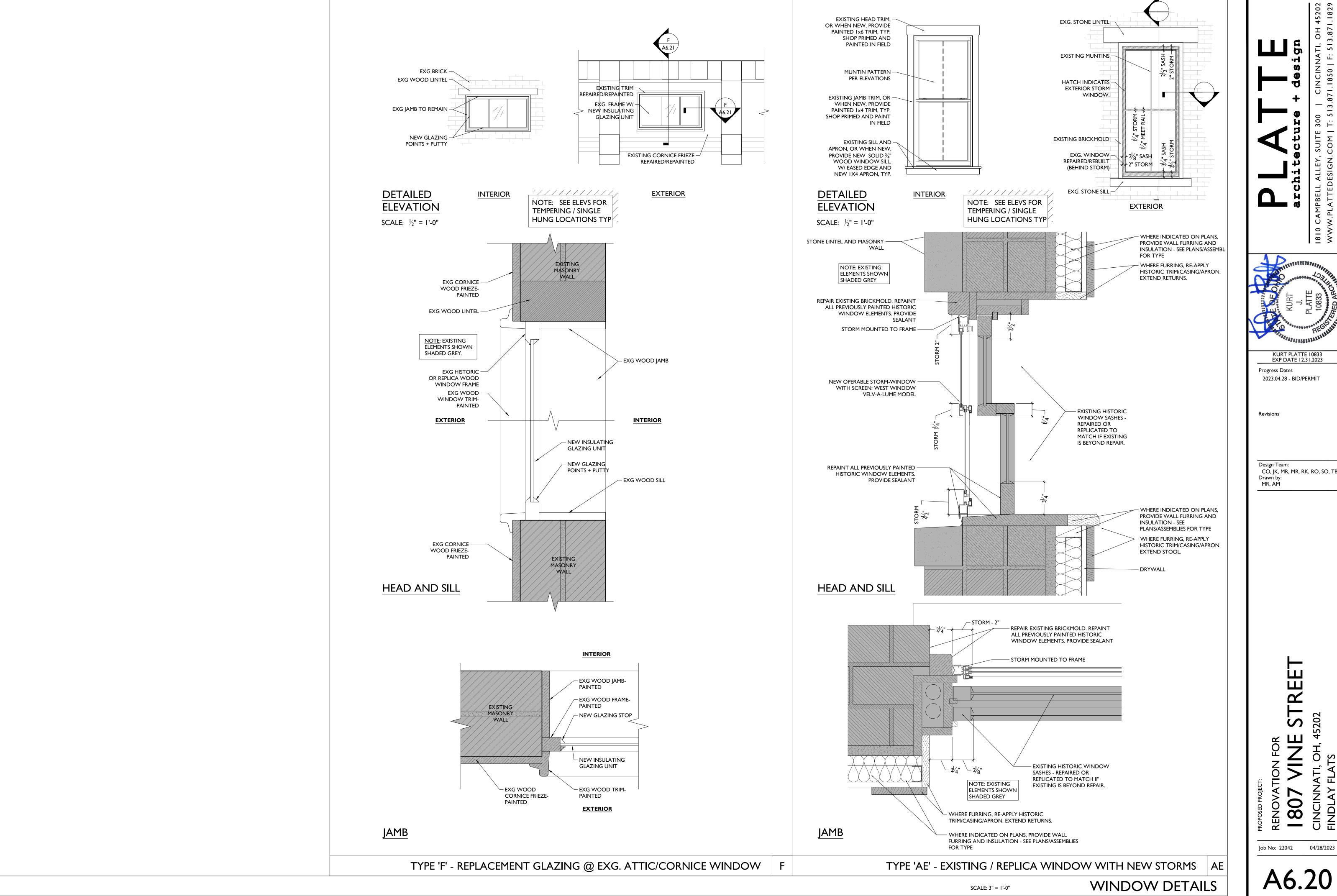
RENOVATION |

1807 VII

CINCINNATI, O

Job No: 22042 04/28/2023

A6.12



KURT PLATTE 10833 EXP DATE 12.31.2023 **Progress Dates** 2023.04.28 - BID/PERMIT Revisions Design Team: CO, JK, MR, MR, RK, RO, SO, TB Drawn by: MR, AM

REET ENOVATIC 807 \



KURT PLATTE 10833 EXP DATE 12.31.2023 **Progress Dates** 2023.04.28 - BID/PERMIT Design Team: CO, JK, MR, MR, RK, RO, SO, TB Drawn by: MR, AM STREET



M. Enterprise Green Communities: 1. Green Communities Checklist 2020 2. Green Communities Criteria 2020 N. ENERGY STAR Qualified Homes Program Requirements l_page SUBMITTALS A. The contractor shall submit the following items directly to the Green Rater/Verifier. B. Construction Waste Diversion Rate (Calculation and/or Waste Tickets) intended to meet this requirement. EPP criteria are as follows: lists to 1,000 ppm paints, coatings, primers, wallpaper, adhesives, sealants, flooring, insulation, and composite wood under criterion 6.4. embodied emissions for concrete, steel, insulation, roofing, paving, and non-composite wood under criterion 6.5 processes) within 500-mile crow-fly distance of site. QUALITY ASSURANCE E. Perform Work to meet or exceed minimum energy efficiency and performance in accordance with Energy Star requirements. Energy Star Checklist is enclosed at end of this section. G. Perform ventilation Work in accordance with ASHRAE 62. Comply with minimum requirements of SMACNA IAQ. 2. Protect stored and installed absorptive materials from moisture damage. material with secured waterproof sheeting. 3. Protect HVAC equipment during construction. construction or demolition. b.When HVAC systems are operated during heavy construction, furnish disposable temporary filters. Findlay Flats Russ Alley replacing the water heater. Follow American National Standards Institute (ANSI) / American Water Works Association (AWWA) C810-17 Standard when replacing the LSL. Mechanical chase shall be sealed at crawl space ceiling. d. Exterior sheathing and house wrap. from unit to unit, and unit to corridor.

EGC 5.1b Building Performance Standard (mandatory)

ERI Option Demonstrate energy performance equivalent to a HERS Index of 100: Energy Analysis conducted by Green Verifier confirms that the project is below HERS 100 target. On-site power generation may not be used to satisfy the minimum energy performance. Meeting energy performance standards further requires mandatory inspection and testing conducted by Owner Contracted Green Rater/Verifier for Green certifications.

Conduct compartmentalization of dwelling units via air infiltration no greater than 0.30 CMF50 for Substantial Rehab per square feet of dwelling unit enclosure area or a 20% improvement of CFM50/sf compared to pre-retrofit conditions, following procedures in ANSI/RESNET/ICC Std. 380.

Insulation installed as part of the rehab must achieve the following: 1. Grade I installation per ANSI/RESNET/ICC Std. 301.

2. Grade II installation for assemblies that contain a layer of continuous, air impermeable insulation

(≥ R-3 in Climate Zones 1 to 4, ≥ R-5 in Climate Zones 5 to 8). 3. Grade II batt insulation floors if they fill the full width and depth of the floor cavity, even when

compression occurs due to excess insulation.

HVAC systems repaired or installed during rehab must complete testing via the National HVAC Functional Testing Checklist, ENERGY STAR Multifamily New Construction Version 1.1 (or most recent checklist version available at time of permit).

Mandatory Mid-Construction Pre-Drywall Thermal Bypass Inspection:

1. EGC Certification will require visual inspection of thermal envelope per enclosed Energy Star Rater Field Checklist at mid-construction. Coordinate inspection with Green Verifier with a minimum of 3-week notice. (Only applicable-scope items will be inspected for renovations.)

Final Verification and Inspection Testing

1. Upon substantial completion and prior to occupancy, the Green Verifier will conduct a visual Final Inspection to verify green requirements incorporated in the project. The contractor shall notify the Green Rater at least four (4) weeks prior to the anticipated date for such inspection. Contractor shall provide access to each unit and cooperate with conducting of the test. Additional inspections

necessary due to incomplete work shall be back-charged to the Contractor. 2. Testing - Third-party Testing is to be scheduled and conducted in conjunction with the final inspection. The contractor shall notify the Green Verifier at least four (4) weeks prior to the anticipated date for such inspection. Contractor shall provide access to each unit and cooperate with conducting of the test.

Preconstruction Pretest – A pre-construction pretest was conducted to identify areas to envelope,

demising unit enclosures. Recommended areas for sealing include:

Joints between duct boots and drywall and floor finishes.

b. Gaps at plumbing penetrations to drywall and floor finishes.

c. Plumbing and attic access panels.

d. Seal all visible gaps and cracks where interstitial cavities (wall, joist, ceiling, and stair) are used as return ducts.

4. Air Infiltration Test (Blower door Test) – Mandatory – Measures air leakage through unit enclosure such as exterior walls, demising walls, ceilings, chases, etc. Minimum envelope leakage where applicable. Following areas of building envelope and demising walls shall be sealed, caulked, gasketed, or weather-stripped to minimize envelope leakage:

 Joints around exterior doors and windows. b. Joints between walls and foundation; between conditioned spaces and attics, demising

walls, crawl spaces and garage.

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1. https://www.energystar.gov/partner_resources/residential_new/homes_prog_reqs/nationa

C. The contractor shall submit cut-sheets of products intended to comply with Environmentally Preferable Products (EPP). See Green Communities Checklist Section 6 for list of products

1. Ingredient Transparency for Material Health Requirement – Publicly disclosed where content is characterized and screened using health hazard lists or restricted substances

2. Recycled Content and Ingredient Transparency Requirement – Minimum 25% post-

3. Chemical Hazard Optimization Requirement – Third-party verification of optimization to 4. Healthier Materials Selection Requirement – see specific requirements for low-emission

5. Environmentally Responsible Material Requirement – see specific requirements for

6. Regional Materials Requirement – Extracted, manufactured, and fabricated (all

A. Perform work in accordance with the Enterprise Green Communities Criteria for prerequisites and credits pertinent to this project listed in Green Communities worksheet included at the end of this

B. Maintain one copy of Green Communities Criteria on site. Criteria is available for download at

https://www.greencommunitiesonline.org/sites/default/files/egc 2020 criteria manual.pdf C. Thoroughly review any requests for substitution for products that are related to Enterprise Green Communities prerequisites and credits. Any substitutions may jeopardize projects' ability to obtain

D. Perform storm water management and erosion control Work in accordance with EPA Best Management Practices or local erosion and sedimentation control standards whichever is more

. Perform Work without use of CFC based refrigerants in HVAC building systems.

H. Develop and implement construction indoor air quality management plan including the following:

a. Store materials on elevated platforms under cover, and in dry location. b. When materials are not stored in enclosed location, cover tops and sides of

a. Shut down return side of HVAC system whenever possible during heavy

c. All mechanical, plumbing, and electrical penetrations in exterior and demising walls.

e. Minimize entry of air from outside, attic, garage, and crawl space into exterior wall and interior wall cavities to ensure passing of air infiltration test. Also minimize air transfer

Batt insulation shall be stapled to face of stud to ensure full contact of insulation with face of drywall. Cut insulation around all mechanical, plumbing, and electrical work. Gasket attic access panels. Seal drywall to frame of access panel.

Distribution Loss Test (Duct Blaster Test) – Mandatory – Measures leakage through the mechanical distribution system and minimize duct leakage. Following areas HVAC distribution

Clean entire distribution system to decipher areas for sealing and minimizing duct

b. Joints and seams of existing ductwork shall be sealed where visible. c. Provide new metal lining for returns in visible areas where wall and floor cavities are used

Seal all duct boots in floors to subfloors and seal all duct boots in walls to drywall. e. Seal gaps between drywall and all duct penetrations in ceilings, including exhaust fans.

EGC 5.6 Sizing of Heating and Cooling Equipment (mandatory)

Applicable to rehabs that include replacement of heating and cooling equipment.

1. Size and select heating and cooling equipment in accordance with the Air Conditioning

Contractors of America (ACCA) Manuals J and S or ASHRAE handbooks.

EGC 5.7 Energy Star Appliances (mandatory) 1. If replacing or installing new appliances provide Energy Star-labeled refrigerators, dishwashers,

and clothes washers.

EGC 5.8 Lighting (mandatory)

When replacing or installing new light fixtures

1. All permanently installed fixtures shall be high-efficiency that is capable of meeting recommended light levels in the Illuminating Engineering Society Handbook, 10th edition. Recessed light fixtures installed as part of air barrier shall be Insulation Contact Air-Tight (ICAT)

3. Common space lighting or Non-apartment building spaces must be controlled by occupancy

sensors or automatic bi-level lighting controls, except 24-hour lighting required by code. Lighting power density in dwelling units shall be 1.1 W/SF or less. 5. All exterior lighting shall have motion sensor controls, integrative PV cells, photosensors, or

astronomic time-clock operation. 6. Exterior fixtures shall meet the following:

a. Luminaires shall be fully shielded emitting no light above 90 degrees. The luminaire's mounting hardware shall not permit mounting in any configuration other than those maintaining full shielding. Non-residential luminaires shall have an uplight rating of U0.

b. Fixtures shall have no sag or drop lenses, side light panels or uplight panels. c. Fixtures shall employ warm-toned (3000k or lower) white light sources or may employ amber light sources or filtered LED light sources.

EGC 6.4 Healthier Material Selection (mandatory)

 Use products that comply with the following requirements. PRODUCT MANDATORY ADDITIONAL REFERENCE CATEGORY POINTS

Findlay Flats Russ Alley 018113 PART 2 PRODUCTS

PRODUCT SUBSTITUTION

A. Thoroughly review any requests for substitution for products that are related to Green Communities prerequisites and credits. Any substitutions may jeopardize the project's ability to obtain certification.

PART 3 EXECUTION

EGC 1.4 Integrative Design: Construction Management (mandatory)

1. At the onset of construction organize an Enterprise Green Communities trades training

moderated by Green Verifier. 2. Following trades to attend - GC Project Manager, GC Site Superintendent, Mechanical-Electrical-

Plumbing, Insulation, Framing, Drywall, Air-Infiltration Package.

3. Provide a minimum of 2-week notice to Green Verifier prior to training date.

EGC 2.1 Site Selection (mandatory) This project does not have any ecologically sensitive features.

If ecologically sensitive features are identified in the Ecological Resource Protection Zone (ERPZ) meet the following:

a. Projects built on land that is within the Special Flood Hazard Area (SPHA) as identified by FEMA, must be designed to meet the ASCE 24 Flood Resistant Design and Construction

a. Ensure that any development or redevelopment activities within the floodplain will mitigate and improve existing floodplain conditions (maintain or increase existing floodplain storage, improve water quality, implement flood-resilient design).

b. Do not raise topographical elevations in flood zones.

2. Protect aquatic ecosystems a. Do not extend the building, built structures, roads, or parking areas into wetlands or

deepwater habitats, as identified in the ERPZ, beyond where they already exist. b. Develop restoration plans for wetland and deepwater habitats within the ERPZ.

3. Conserve habitat for any species on federal or state threatened or endangered lists a. Do not extend the building, built structures, roads, or parking areas into habitats for threatened and endangered plant and animal species on the site, as identified in the

b. Minimize disturbances within the ERPZ during construction. If construction activities permanently disrupt the habitat of threatened or endangered animal habitats, follow the guidance of responsible state (or local) agencies on how to best address.

EGC 2.14 Local Economic Development and Community Wealth Creation

1. Contractor shall demonstrate that local preference for construction employment and subcontractor hiring was part of bidding process.

EGC 3.1 Environmental Remediation (mandatory)

1. Submit Phase 1 Environmental Site Assessment report to Green Verifier/Verifier If an environmental site assessment reveals any hazardous materials, mitigate these before proceeding with development.

EGC 3.2 Erosion and Sedimentation Control (mandatory)

Applies only when any site-work or excavation is in scope: Contractor shall implement EPA's National Pollutant Discharge Elimination System (NPDES)' Stormwater Discharges from Construction Activities guidance, or local requirements, whichever is

more stringent. If excavation and site work is part of scope: 1. Stockpile and protect disturbed topsoil for reuse.

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VOC content less than or 1 point per APE-For wall finish paints compliant with the equal to the thresholds free paint, coating | mandatory CDPH specification, seek those certified to Master Painters coatings, provided by the most and/or primer 1 point per CDPH-Institute (MPI) X-Green, Green Wise **primers and** recent version of SCAQMD 1113 available Gold, GREENGUARD Gold, SCS Indoor wallpaper compliant coating at time of product Advantage Gold, and Berkeley Analytical and/or primer specification for all interior (excluding wall ClearChem. GS-11 paints comply with paints, coatings and finish paints) the optional APE-free criterion, as do [2 points Red List-free products. VOC emissions verified as | maximum] compliant with CDPH Standard Method for all wall finish paints. All wallpaper, phthalate VOC content less than or All interior Use of sealants Orthophthalate plasticizers are common equal to the thresholds that do not contain | in polyurethane and modified polymer adhesives provided by the most orthophthalate sealants recent version of plasticizers. Use

sealants. While not common, they may also be found in some acrylic latex or SCAQMD 1168 available siliconized acrylic sealants. Verify that of adhesives that at time of product are CDPH specified sealants are phthalate-free. specification for all interior compliant. Minimize the need for adhesives when [1 point per possible. For instance, finger-joints and adhesives and sealants. mechanical fasteners do not contain compliant product, 2 points chemicals of concern. maximum] All flooring products The project Common flooring product labels that (whether carpet or hard complies with one meet or exceed the mandatory CDPH surface) must comply with of the following emission requirement include FloorScore, GREEN-GUARD Gold, SCS CDPH emission options: requirements. Absence of vinyl-Indoor Advantage Gold, Berkeley No flexible PVC with flooring throughout | Analytical ClearChem, and Carpet Rug Institute Green Label Plus (CRI+). phthalates may be the project installed, whether the Absence of carpet | In place of vinyl or other PVC-based phthalates were throughout the resilient flooring, consider salvaged hardwoods, natural linoleum, rubber, intentionally added or project All project flooring | cork, other PVC-free resilient flooring, added via recycled assemblies ceramic or stone tile, sealed concrete, or content. No carpet in the project (adhesive, pre-finished solid wood flooring. Presealant, flooring may be installed in finished products, compared to those building entryways, product) are Red | finished on site, keep potential laundry rooms, bathrooms, List-free exposures lower through a more

kitchens/kitchenettes, or controlled environment during finishing. If possible, use a floor system that can utility rooms. [3 points] Fluid applied finish floors If using carpet, feature mechanical attachments (e.g., may only be installed in specify those that nails, floating wood flooring) instead of non-occupied spaces, do not use a glues. This approach makes flooring fluorinated (PFAS) easier to recycle in the future. such as mechanical stain repellant. [1

Insulation If fiberglass or mineral The project does wool batts are used, these not include any must be formaldehydetwo-part spray polyurethane foam. [2 points]

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recycled cotton, cellulose, wool, and blown fiberglass. All major U.S. manufacturers of residential fiberglass batt insulation have transitioned to formaldehyde-free products. Some

Alternative insulation products include

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2. Control the path and velocity of runoff with silt fencing or equivalent.

3. Protect sewer inlets, streams, and lakes on site during construction with silt fencing, silt sacks or comparable measures.

4. Provide swales to divert surface water from hillsides. 5. Identify and protect significant, high value trees during construction with fencing outside the

6. If soil is disturbed during construction on sloped areas, use tiers, erosion blankets, compost blankets, etc. to stabilize soil.

EGC 3.3 Ecosystem Services/ Landscape (mandatory)

critical root zone.

When new landscaping is provided, or existing landscaping is modified:

1. All new landscaping (trees, shrubs, and groundcover, including grasses) should be native or adapted to the region. All new plants must be appropriate to the site's soil and microclimate, and none should be invasive species.

2. All disturbed existing landscape areas should be reseeded with native groundcover or plans and

EGC 3.4 Surface Stormwater Management (mandatory)

EGC 3.6 Efficient Irrigation and Water Reuse (mandatory)

When new irrigation system is provided, or existing system is modified:

Applicable to New Construction or Rehab disturbing greater than 5,000 square feet 1. Treat or retain, on site, the precipitation volume from the 60th percentile precipitation event as defined by the U.S. EPA in the Technical Guidance on Implementing the Stormwater Runoff Requirements for Federal Projects under Section 438 of the Energy Independence and Security

1. Comply with all local water restrictions. 2. Design irrigation zones to respond to weather considerations, solar exposure, reflected light/heat

from adjacent building or hardscape, soil type, topography/slope, plant material. 3. Establish irrigation volume and frequency per zone to be appropriate for the climate, soil type,

4. Select emission devices, valves, pipes, controllers, and sensors suitable to the landscape

requirements that will facilitate long-term reliability and serviceability. 5. Design irrigation system to target each planting area with no overspray of impervious surfaces or adjacent planting areas. Prevent runoff of water from the site.

minimize evaporative losses while maintaining healthy plants and obeying local regulations and water-use guidance. 7. Install soil moisture sensor controller per vegetation zone or rain delay controller.

EGC 4.1 & 4.2 Water-Conserving Fixtures (mandatory)

1. Service pressure in each unit must not exceed 60 psi. Provide documentation of municipal water

6. Install timer/controller that activates the valves for each watering zone at the best time of day to

pressure. Green verifier will test water pressure at units. 2. Following flow rates are required to reduce total indoor water consumption by 30%:

3. Toilets must be WaterSense certified and 1.28 gallons per flush or less, including dual-flush and pressure-assisted models.

4. Urinals must be **WaterSense certified** and **0.5** gallons per flush or less. 5. Showerheads must be **WaterSense-labeled** and **1.75** gallons per minute or less.

6. Kitchen faucets must be **1.5** gallons per minute or less. 7. Lavatory faucets must be **WaterSense certified** and **1.2** gallons per minute or less.

EGC 4.3 Water Quality (mandatory) Mandatory for Substantial Rehabs built before 1986. Optional for all other projects 1. Replace lead service lines. Determine whether a lead service line (LSL) connects the drinking

water main under the street with the building. If an LSL is present, replace it before or while

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The project uses formaldehyde-free mineral wool batts are board insulation also available that does not contain halogenated flame retardants. [3 While finish products (including plywood, **Composite** Formaldehyde emissions Use of composite MDF, particleboard, and cabinet and less than or equal to the woods that are certified ultra-low thresholds provided by door components) comply by law with this mandatory requirement, ensure that CARB Phase 2 and/or emitting TSCA Title IV for plywood, formaldehyde all products installed in the project that particleboard, MDF, and (ULEF), 1 point are exposed to the conditioned space these materials within per product. meet these standards or at a minimum other products like do not include added urea formaldehyde. [2 points cabinets and doors. For maximum] No-added formaldehyde (NAF) products qualify as ULEF and will be eligible for any other composite wood products not covered by optional points. However, be aware that CARB/TSCA the alternative binders utilized in these requirements, but used in products may include regrettable interior spaces, these must substitutions. For instance, the most at minimum be NAUF common alternative binder for composite

(have no added urea

formaldehyde).

EGC 6.6 Bath, Kitchen, Laundry Surfaces (mandatory) 1. Use materials that have durable, cleanable surfaces through bathrooms, kitchens, and laundry rooms. Materials should not be prone to deterioration due to moisture intrusion or encourage the

wood is PMDI, which is made with

lower hazard during use than

for health hazards.

isocyanates. PMDI is expected to be a

formaldehyde, but more information is

needed. Preferable alternatives would be

content disclosure, so they can be vetted

more than half bio-based (e.g., binders

that are at least 50% soy) with full

growth of mold. 2. Use moisture-resistant backing materials such as cement board, fiber cement board, or equivalent per ASTM #D 6329 or ASTM #D 3273 behind tub/shower enclosures. Projects using a one-piece fiberglass enclosure are exempt from this requirement.

EGC 6.8 Managing Moisture: Foundations (mandatory)

Applicable when foundation work is in scope. Beneath Concrete Slabs (including those in basements and crawl spaces)

1. Install a capillary break as follows: 4-inch layer of ½-inch diameter or greater clean aggregate. 2. Immediately above the capillary break, install at least 6-mil polyethylene sheeting overlapped at least 6 inches at the seams to serve as a vapor retarder in direct contact with the slab above.

Option 2 1. Install a 4-inch uniform layer of sand, overlain with a layer or strips of geotextile drainage matting

installed according to the manufacturer's instructions. 2. Immediately above the capillary break, install at least 6-mil polyethylene sheeting overlapped at least 6 inches at the seams to serve as a vapor retarder in direct contact with the slab above.

EGC 6.9 Managing Moisture: Roofing and Wall Systems (mandatory) Applicable only when wall or roof systems are replaced.

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EGC SPECIFICATIONS

EXP DATE 12.31.2023 Progress Dates 2023.04.28 - BID/PERMIT

Revisions

MR, AM

CO, JK, MR, MR, RK, RO, SO, TB Drawn by:

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2. Flashings at roof /wall intersections and wall penetrations (i.e., plumbing, electrical, vents, HVAC refrigerant lines and the like in addition to windows and doors) must be integrated with the weather-resistive barrier and drainage plane prior to any exterior finish being installed to prevent bulk water from entering the exterior wall assembly.

3. Flashing installed at bottom of exterior walls with weep holes included for masonry veneer and weep screen for stucco cladding systems or equivalent drainage system.

Install drip edge at entire perimeter of roof.

2. At wall /roof intersections, maintain ≥2" clearance between wall cladding and roofing materials, install flashing along the intersection, and use kick-out flashing.

EGC 6.10 Construction Waste Management (mandatory)

Contractor to investigate local options for diversion of all construction waste and develop a plan for tracking waste diversion either through a contracted company or by tracking and sorting following components of construction waste.

Option 1 1. Recycle a minimum of **75%** of total construction waste

EGC 6.11 Recycling Storage

1. Owner to provide separate bins for the collection of trash and recycling for each dwelling unit and all shared community rooms (if applicable).

EGC 7.1 Radon Mitigation (mandatory) Applicable only in EPA Zone 1

Substantial Rehab

- 1. Owner AND/OR Contractor to confirm pre-construction radon test was conducted by third-party certified radon professional.
- 2. Test for radon in accordance with ANSI-AARST MAMF-2017 standards for multifamily buildings or ANSI-AARST MAMF-2014 for single-family homes.
- 3. If the radon level is above 4 pCi/L, contractor to install radon-reduction measures or install a radon mitigations system per ANSI-AARST RMS-MF 2018 for multifamily buildings or SGM-SF-2017 for homes.
- 4. After construction completion, have building tested for radon by third-party certified radon professional. If radon levels are above 4 pCi/L, install mitigation in accordance with ANSI-AARST MAMF-2017 standards for multifamily buildings or ANSI-AARST SGM-SF-2017 or ASTM 2021 for single-family homes.

EGC 7.2 Reduce Lead Hazards in Pre-1978 Buildings (mandatory)

- 1. Conduct lead risk assessment or inspection to identify lead hazards. 2. Control identified lead hazards using lead abatement or interim controls, using lead-safe work
- practices that minimize and contain dust.
- 3. Follow EPA or state and/or local laws and requirements, where applicable. Alternatively, follow standard lead treatments defined by HUD as a series of hazard reduction measures designed to reduce all lead-based paint hazards in a dwelling unit without the benefit of a risk assessment or other evaluation (25 CFR 34.110).
- 4. Replace windows that have deteriorated lead-based paint with energy-efficient windows. 5. A lead inspection should be undertaken by an EPA certified risk assessor to determine whether
- paint in a rehab project contains lead, otherwise paint should be presumed to contain lead and lead-safe work practices are required.
- 6. Perform dust lead clearance testing at the conclusion of renovation work; compare against EPA dust lead clearance standards.

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7. Remove or cover lead-contaminated soil so that it is inaccessible to children. For gardening, use raised beds with lead-free soil.

EGC 7.3 Combustion Equipment (mandatory)

- Applicable only when combustion equipment is provided anywhere in the building: 1. Provide at least one hard-wired carbon monoxide detector with battery backup for each sleeping
- area, minimum one on each floor. 2. Any combustion equipment installed must be power-vented or closed-combustion.
- 3. For Substantial Rehabs with combustion equipment that is not power-vented or direct-vent, Owner AND/OR Contractor to confirm pre-construction combustion safety test was conducted. The test must be conducted for central systems and for 10% of individual dwelling units systems per RESNET Guidelines for Combustion Safety and Developing Work Orders or BPI Combustion Safety Test Procedures for Vented Appliances.

EGC 7.5 Integrated Pest Management (mandatory)

- 1. Seal all wall, floor and joint penetrations with low-VOC caulking or other appropriate nontoxic
- 2. Install corrosion-proof metal pest screens for all openings greater than ¼ inch.
- 3. Seal off entry points under kitchen and bathroom sinks.

EGC 7.7 Ventilation (mandatory) Local Exhaust

- a. Design and install local exhaust systems in all bathrooms (including half-baths) and the kitchen to meet the requirements of ASHRAE Standard 62.2–2010, Sections 5 and 7 or local equivalent, whichever is more stringent. Provide minimum intermittent local exhaust flow rates of 100 cfm or 5ACH in kitchen, and 50 cfm in bathrooms.
- b. Exhaust air to the outdoors. Do not route exhaust ducts to terminate in attics or interstitial spaces. Just recirculating range hoods or recirculating over-the-range microwaves do not satisfy the kitchen exhaust requirements.

c. Use ENERGY STAR-labeled bathroom exhaust fans in all bathrooms. Ventilation

- a. Fresh air ventilation to dwelling units shall comply with ventilation requirements of ASHRAE 62.2-2010.
- b. Project teams using exhaust-only ventilation systems must comply with flow rate required by ASHRAE 62.2–2010. If bathroom exhaust fan is used for exhaust-only fresh-air ventilation, then refer to HVAC drawings for exhaust fan run-time and controls. Coordinate continuous / intermittent fan run-time and controls with HVAC and Electrical contractor. Provide dual-speed bathroom exhaust fan with continuous speed set to 30 cfm in 1-Bedroom units, 45 cfm in 2-Bedroom units, and 45 cfm in 3-Bedroom units.
- 3. In full accordance with ASHRAE 62.1-2010, install a mechanical ventilation system for all hallways and common spaces in each multifamily building of four stories or more.
- 4. All systems and associated ductwork must be installed per manufacturer's recommendations. 5. If using central ventilation systems with rooftop fans, each rooftop fan must be direct-drive and
- variable-speed with speed controller mounted near the fan. Fans with design CFM 300-2000 must also have an ECM motor.
- 6. Green Verifier/Energy Rater to conduct testing to verify dwelling unit ventilation system flow rates are within 15 CFM or 15% of the design value.

EGC 7.12 Beyond ADA: Universal Design (mandatory)

Select one option below to implement. Implement three strategies in that option. For all selected strategies affecting dwelling units, implement that strategy for 75% of the project's dwelling units. 1. Create approachable building entries that are welcoming, are easy to identify, promote feelings of safety, and are accessible without the use of stairs. Include a covered entryway with seating,

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greenery, and lighting. Include exterior signage that is prominent, visible from sidewalk, access

- road, or parking lot. 2. Provide clear signage throughout the building that avoids jargon, uses clear language, incorporates a positive frame, and is multi-lingual where appropriate. Incorporate illustrations to encourage universal understanding. Signage for way-finding and other purposes should be available in the interior and exterior spaces.
- 3. Avoid strong patterns on floor finishes. Use carpets and flooring that have subtle neutral patterns.

EGC 8.1 Building Maintenance Manual (mandatory)

1. General Contractor to provide Maintenance manual that addresses HVAC operations and maintenance, appliance guidance, lighting equipment, green cleaning products, and pest control. Refer to EGC 2020 criteria handbook for details.

EGC 8.2 Emergency Management Manual (mandatory)

- 1. General Contractor to provide Emergency Management Manual targeted toward operations and maintenance staff and other building level personnel. The manual should address responses to various types of emergencies, leading with those that have the greatest probability of negatively affecting the project. The manual should provide guidance as to how to sustain the delivery of adequate housing throughout an emergency and cover a range of topics including but not limited
- a. Communication plans for staff and residents to use in the event of an emergency.
- b. Useful contact information for public utility and other service providers c. Infrastructure and building "shutdown" procedures

EGC 8.4 Walk-throughs and Orientations to Property Operations (mandatory)

General Contractor to provide a comprehensive walk-through and orientation for property manager(s) and building operations staff within 90 days of initial occupancy. Use the appropriate manuals (8.1 & 8.2) as the base of the curriculum, and review the project's green features, operations and maintenance procedures, and emergency protocols.

ENCLOSURES

1. Enterprise Green Communities Checklist 2. Energy Star National Rater Field Checklist

END OF SECTION 018113

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National Rater Field Checklist

ENERGY STAR Multifamily New Construction, Version 1 / 1.1 / 1.2 (Rev. 01)

	Number of Units:	Pern	nit Date: .		
Project Address:	City:		State:		
Thermal Enclosure System		Must Correct	Builder Verified ³	Rater Verified ⁴	4
1. High-Performance Fenestration & Insulation					
1.1 Fenestration meets or exceeds specification in Items 2.1 & 2.2	of the Natl Rater Design Review Checklist	. 🗆			
1.2 Insulation meets or exceeds specification in Items 3.1 & 3.2 of	the Natl Rater Design Review Checklist.				
1.3 All insulation achieves Grade I install. per ANSI / RESNET / IC	CC Std. 301. Alternatives in Footnote 6. 6,7				
1.4 Prescriptive Path: Window-to-wall ratio ≤ 30%. 8					
1.5 Heated plenums in unconditioned space or ambient conditions	must meet the following requirements: 9				
1.5.1 Sides of plenum are an air barrier and insulated to ≥ R-3 CZ 7; ≥ R-9.5ci in CZ 8, AND;	3ci in CZ 1-4; ≥ R-5ci in CZ 5-6; ≥ R-7.5ci in				
1.5.2 Insulation at top of plenum meets or exceeds the R-value of Table 502.2(1) of 2009 IECC, AND;	e for mass floors from the "All Other" colum	n 🗖			
1.5.3 Bottom of plenum must have at least R-13 insulation. 10					
1.6 Garages with space heating must meet the following requirement	ents: ⁹				
1.6.1 Insulation on above grade walls and walls on the first sto in CZ 7; ≥ R-9.5ci in CZ 8, AND;	ry below grade ≥ R-5ci in CZ 5-6; ≥ R-7.5ci				
1.6.2 Garage ceiling insulation meets or exceeds the R-value of Table 502.2(1) of 2009 IECC.	for mass floors from the "All Other" column				
<u>Ceilings</u> : At interior or exterior horizontal surface of ceiling insulation Climate Zones 4-8. Also, at exterior vertical surface of ceiling insule of the insulation in every bay or a tabbed baffle in each bay with a	ation in all climate zones (e.g., using a wind	l baffle that	extends t		
2.1 Dropped ceilings / soffits below unconditioned attics, chase / de					Γ
Walls: At exterior vertical surface of wall insulation in all climate zo	nes; also at interior vertical surface of wall i	nsulation ir	Climate	Zones 4-8	3. 1
2.2 Walls behind showers, tubs, staircases, and fireplaces.					
2.3 Architectural bump-outs, dead space, and all other exterior wa	lls.				
Floors: At exterior vertical surface of floor insulation in all climate z including supports to ensure alignment. Alternatives in Footnotes 1	ones and, if over unconditioned space, also $5 \& 16$. $^{14, 15, 16}$	at interior	horizontal	surface	
2.4 Floors above garages, floors above unconditioned spaces, and	cantilevered floors.				
2.5 All other floors adjoining unconditioned space (e.g., rim / band	joists at exterior wall or at porch roof).				
3. Reduced Thermal Bridging					
3.1 For insulated ceilings with attic space above (i.e., non-cathedr inside face of the exterior wall below and is ≥ R-21 in CZ 1-5;					
3.2 For insulated ceilings with attic space above, attic access pane equipped with durable ≥ R-10 cover. ¹⁸	els and drop-down stairs insulated ≥ R-10 c	r 🗆			
3.3 Insulation beneath attic platforms (e.g., HVAC platforms, walk	ways) ≥ R-21 in CZ 1-5; ≥ R-30 in CZ 6-8.				
3.4 For slabs on grade in CZ 4-8, 100% of slab edge insulated to 502.2(1) of the 2009 IECC and aligned with the thermal bound	≥ R-5 at the depth specified by Table lary of the walls. 19, 20				
3.5 For elevated concrete slabs in CZ 4-8 (i.e., podiums and proje floor edges) 100% of the slab edge insulated to ≥ R-5. For poof full height of the podium wall. Alternatives in Footnote 21. 21			0	_	
3.6 For elevated concrete slabs in CZ 4-8 (i.e., podiums, but not in meets the U-factor specified in Table 502.1.2 of the 2009 IECG above the slab, and for 'All Other' when common space is about the slab, and for 'All Other' when common space is about the slab, and for 'All Other' when common space is about the slab, and for 'All Other' when common space is about the slab, and for 'All Other' when common space is about the slab, and for 'All Other' when common space is about the slab is a slab in CZ 4-8 (i.e., podiums, but not in meets the U-factor specified in Table 502.1.2 of the 2009 IECG above the slab, and for 'All Other' when common space is about the slab in CZ 4-8 (i.e., podiums, but not in meets the U-factor specified in Table 502.1.2 of the 2009 IECG above the slab, and for 'All Other' when common space is about the slab in the common space is about the common space is about the common space is a slab in the common space in the common space is a slab in the common space in the common space is a slab in the common space in the common space is a slab in the common space in the common space is a slab in the common space in the common space is a slab in the common space in the common space is a slab in the common space in the common space is a slab in the common space in the common space is a slab in the common space in the	C for Group R when dwelling units are ve the slab. 22		0		
3.7 At above-grade walls and rim / band joists separating condition		llowing op	tions used	J: ^{23,26}	_
3.7.1 Continuous rigid insulation, insulated siding, or combina ≥ R-3 in CZ 1-4; ≥ R-5 in CZ 5-8 ^{24, 25, 26, 27} , OR ;	tion of the two is:				
3.7.2 Structural Insulated Panels OR; Insulated Concrete Form	ns OR ; Double-wall framing OR ; ^{24, 26, 28}				
3.7.3 Option only for wood-framed walls either in CZ 1-3 OR ≤	3 stories: 'advanced framing' details includ	ing all of th	ne Items b	elow: ^{26,29}	
, ,					$\overline{}$
3.7.3a Corners insulated ≥ R-6 to edge ³⁰ , AND ;					

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4. Air Sealing (Unless otherwise noted below, "sealed" indicates the use of caulk, foam, or equivalent material.)	Must Correct	Builder Verified ³	Rater Verified ⁴	N/A ⁵
The following items must be verified in dwelling units and common spaces to reduce air leakage to exterunconditioned spaces.	rior, adjace	ent buildir	ngs, or	
4.1 Ducts, flues, shafts, plumbing, piping, wiring, exhaust fans, & other penetrations to unconditioned space sealed, with blocking / flashing as needed.				-
4.2 Recessed lighting fixtures adjacent to unconditioned space ICAT labeled and gasketed. Also, if in insulated ceiling without attic above, exterior surface of fixture insulated to ≥ R-10 in CZ 4-8.				
4.3 Continuous top plate or blocking is at top of walls adjoining unconditioned space including at balloon-framed parapets, and sealed.			_	
4.4 Drywall sealed to top plate at all unconditioned attic / wall interfaces using caulk, foam, drywall adhesive (but not other construction adhesives), or equivalent material. Either apply sealant directly between drywall and top plate or to the seam between the two from the attic above.				
4.5 Rough opening around windows & exterior doors sealed. 33				-
4.6 Assemblies that separate attached garages from occupiable space sealed and, also, an air barrier installed, sealed, and aligned with these assemblies. 34		_	_	
4.7 Doors adjacent to unconditioned space (e.g., attics, garages, basements) or ambient conditions made substantially air-tight with doorsweep and weatherstripping or equivalent gasket.				
4.8 Attic access panels, roof hatches and drop-down stairs are gasketed (i.e., not caulked) or equipped with durable covers that are gasketed. ¹⁸			_	
The following items must be additionally verified in dwelling units, to reduce air leakage between condition	oned spac	es.		
4.9 Doors serving as a unit entrance from a corridor/stairwell made substantially air-tight with doorsweep and weatherstripping or equivalent gasket.				
4.10 Rater-measured compartmentalization is no greater than 0.30 CFM50 per square feet of dwelling unit enclosure area, following procedures in ANSI / RESNET / ICC Std. 380. 35		-	0	_
4.10.1 For dwelling units with forced air distribution systems without ducted returns and located in a closet adjacent to unconditioned space, the Rater-measured pressure difference between the space containing the air handler and the conditioned space during the compartmentalization test is no greater than 5 Pa. ³⁶		-	_	_
HVAC System ³⁷ 5. Heating & Cooling Egpt. – Complete Path A - Dwelling Unit HVAC Grading OR Path B – Dwelling Unit H	VAC	Must	Rater Verified	N/A ⁵
HVAC System ³⁷ 5. Heating & Cooling Eqpt. – Complete Path A - Dwelling Unit HVAC Grading OR Path B – Dwelling Unit H Commissioning ³⁸	VAC	Must Correct		N/A ⁵
5. Heating & Cooling Eqpt. – Complete Path A - Dwelling Unit HVAC Grading OR Path B – Dwelling Unit H Commissioning ³⁸ 5a.1 Blower fan volumetric airflow is Grade I or II per ANSI / RESNET / ACCA Std. 310	IVAC			N/A ⁵
5. Heating & Cooling Eqpt. – Complete Path A - Dwelling Unit HVAC Grading OR Path B – Dwelling Unit H Commissioning 38 5a.1 Blower fan volumetric airflow is Grade I or II per ANSI / RESNET / ACCA Std. 310	IVAC	Correct	Verified 4	
5. Heating & Cooling Eqpt. – Complete Path A - Dwelling Unit HVAC Grading OR Path B – Dwelling Unit H Commissioning 38 5a.1 Blower fan volumetric airflow is Grade I or II per ANSI / RESNET / ACCA Std. 310 5a.2 Blower fan watt draw is Grade I or II per ANSI / RESNET / ACCA Std. 310 5a.3 Refrigerant charge is Grade I per ANSI / RESNET / ACCA Std. 310. See Footnote 40 for exemptic	ons. ⁴⁰	Correct	Verified 4	
5. Heating & Cooling Eqpt. – Complete Path A - Dwelling Unit HVAC Grading OR Path B – Dwelling Unit H Commissioning 38 5a.1 Blower fan volumetric airflow is Grade I or II per ANSI / RESNET / ACCA Std. 310 5a.2 Blower fan watt draw is Grade I or II per ANSI / RESNET / ACCA Std. 310	ons. ⁴⁰ ck box): ⁴¹	Correct	Verified	
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5. Heating & Cooling Eqpt. – Complete Path A - Dwelling Unit HVAC Grading OR Path B – Dwelling Unit H Commissioning 38 5a.1 Blower fan volumetric airflow is Grade I or II per ANSI / RESNET / ACCA Std. 310 5a.2 Blower fan watt draw is Grade I or II per ANSI / RESNET / ACCA Std. 310 5a.3 Refrigerant charge is Grade I per ANSI / RESNET / ACCA Std. 310. See Footnote 40 for exemption of the following (check of the following in t	below: 42 IWC iciency e efficiency hVAC Must Correct	Correct	Verified 4 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	-
5. Heating & Cooling Eqpt. – Complete Path A - Dwelling Unit HVAC Grading OR Path B – Dwelling Unit H Commissioning 38 Path A 39 5a.1 Blower fan volumetric airflow is Grade I or II per ANSI / RESNET / ACCA Std. 310 5a.2 Blower fan watt draw is Grade I or II per ANSI / RESNET / ACCA Std. 310 5a.3 Refrigerant charge is Grade I per ANSI / RESNET / ACCA Std. 310. See Footnote 40 for exemption of 5b.1 HVAC manufacturer & model number on installed equipment matches either of the following (cher and a static pressure measured by Rater at contractor-provided test locations and documented Return-Side External Static Pressure: [WC Supply-Side External Static Pressure: [WC Supply-Side External Static Pressure: [WC Supply-Side External Static Pressure: [Stational HVAC Path: Heating and cooling equipment serving dwelling units and common spaces meet the eff levels specified in the Exhibit X. Electric resistance heating is not installed in dwelling units. 55.5 ERI Path: Heating and cooling equipment serving common spaces, but not serving dwelling units, meet the levels specified in the Exhibit X. See Exhibit X for restrictions on electric resistance heating. 56.6 National HVAC Functional Testing Checklist(s) collected prior to certification, with all HVAC systems in the project fully documented. Exception: Where credentialed HVAC Contractor(s) are completing the National Functional Testing Checklist, the checklist is not required to be collected for the systems they verify. 43 57.7 Rater has verified that Functional Testing Agent(s) ("FT Agent(s)") completing the National HVAC Function Checklist(s), hold(s) one of the required credentials and are listed on the appropriate online directory. 43 Equipment Controls	below: 42 IWC iciency e efficiency hVAC Must Correct	Correct	Verified 4	

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5.10 Freeze protection systems, such as heat tracing of piping and heat exchangers, including self-regulating heat tracing, and garage / plenum heaters include automatic controls that are verified to shut off the systems when pipe wall or garage / plenum temperatures are above 40°F.	_		_	
5.10.1 Where heat tracing is installed for freeze-protection, controls must be based on pipe wall temperature and a minimum of R-3 pipe insulation is also required.			_	
5.11 Snow- and ice-melting systems include automatic controls that are verified to shut off the systems when the pavement temperature is above 50°F and no precipitation is falling, and an automatic or manual control is installed that is verified to shut off system when the outdoor temperature is above 40°F, so that the potential for snow or ice accumulation is negligible.	0	_		_
Hydronic Distribution				
5.12 For hydronic distribution systems, all terminal heating and cooling distribution equipment are separated from the riser or distribution loop by a control valve or terminal distribution pump, so that heated or cooled fluid is not delivered to the dwelling unit distribution equipment when there is no call from the thermostat.				_
5.13 Terminal units in hydronic distribution systems are equipped with pressure independent balancing valves or pressure independent control valves.				
5.14 Piping of a heating or cooling system is insulated in accordance with Item 4.40 on the National HVAC Design Report, including where passing through planks or any other penetrations.		_		_
5.15 For circulating pumps serving hydronic heating or cooling systems with three-phase motors, 1 horse-power or larger, motors meet or exceed efficiency standards for NEMA Premium™ motors. If 5 horse-power or larger, also installed with variable frequency drives.	_	_	_	
5. Duct Quality Installation - Applies to Heating, Cooling, Ventilation, Exhaust, & Pressure Balancing D Unless Noted in Footnote.	Must Correct	Rater Verified ⁴	N/A	
6.1 Ductwork installed without kinks, sharp bends, compressions, or excessive coiled flexible ductwork. 45				
6.2 Bedrooms with a design supply airflow ≥ 150 CFM (per Item 5.2 on the National HVAC Design Report) pr balanced (e.g., using transfer grilles, jump ducts, dedicated return ducts, undercut doors) to achieve a Ra measured pressure differential ≥ -5 Pa and ≤ +5 Pa with respect to the main body of the dwelling unit whe handlers are operating. See Footnote 46 for test configuration. 46	ter-	_	_	_
6.3 All supply and return ducts in unconditioned space, including connections to trunk ducts, are insulated to ≥				
6.3.1 Prescriptive Path: Dwelling unit ductwork meets the location and insulation requirements specified in the ENERGY STAR Multifamily Reference Design.	е			
6.4 Rater-measured total duct leakage in dwelling units meets one of the following two options: 48,49				
6.4.1 Rough-in: Tested per allowances below, with air handler & all ducts, building cavities used as ducts, & boots installed. In addition, <u>all</u> duct boots sealed to finished surface, Rater-verified at final. ⁵⁰ No ducted returns ³⁶ : The greater of ≤ 3 CFM25 per 100 sq. ft. of CFA or ≤ 30 CFM. Additionally, the R measured pressure difference between the space containing the air handler and the conditioned space air handler running at high speed, is ≤ 5 Pa. For systems > 1 ton, increase by 1 Pa per half ton. One or two ducted returns ³⁶ : The greater of ≤ 4 CFM25 per 100 sq. ft. of CFA or ≤ 40 CFM. Three or more ducted returns ³⁶ : The greater of ≤ 6 CFM25 per 100 sq. ft. of CFA or ≤ 60 CFM.	ater-	_	_	
			_	_
6.4.2 <u>Final</u> : Tested per allowances below, with the air handler & all ducts, building cavities used as ducts, du & register grilles atop the finished surface (e.g., drywall, floor) installed. ⁵¹ No ducted returns ³⁶ : The greater of ≤ 6 CFM25 per 100 sq. ft. of CFA or ≤ 60 CFM. Additionally, the R measured pressure difference between the space containing the air handler and the conditioned space air handler running at high speed, is ≤ 5 Pa. For systems > 1 ton, increase by 1 Pa per half ton. One or two ducted returns ³⁶ : The greater of ≤ 8 CFM25 per 100 sq. ft. of CFA or ≤ 80 CFM. Three or more ducted returns ³⁶ : The greater of ≤ 12 CFM25 per 100 sq. ft. of CFA or ≤ 120 CFM.		_		
& register grilles atop the finished surface (e.g., drywall, floor) installed. ⁵¹ No ducted returns ³⁶ : The greater of ≤ 6 CFM25 per 100 sq. ft. of CFA or ≤ 60 CFM. Additionally, the R measured pressure difference between the space containing the air handler and the conditioned space air handler running at high speed, is ≤ 5 Pa. For systems > 1 ton, increase by 1 Pa per half ton. One or two ducted returns ³⁶ : The greater of ≤ 8 CFM25 per 100 sq. ft. of CFA or ≤ 80 CFM.	e, with the	_		
& register grilles atop the finished surface (e.g., drywall, floor) installed. ⁵¹ No ducted returns ³⁶ : The greater of ≤ 6 CFM25 per 100 sq. ft. of CFA or ≤ 60 CFM. Additionally, the R measured pressure difference between the space containing the air handler and the conditioned space air handler running at high speed, is ≤ 5 Pa. For systems > 1 ton, increase by 1 Pa per half ton. One or two ducted returns ³⁶ : The greater of ≤ 8 CFM25 per 100 sq. ft. of CFA or ≤ 80 CFM. Three or more ducted returns ³⁶ : The greater of ≤ 12 CFM25 per 100 sq. ft. of CFA or ≤ 120 CFM. S.5 Townhouses only: Rater-measured duct leakage to the outside the greater of ≤ 4 CFM25 per 100 sq. ft. of	e, with the			0
 & register grilles atop the finished surface (e.g., drywall, floor) installed. ⁵¹ No ducted returns ³⁶: The greater of ≤ 6 CFM25 per 100 sq. ft. of CFA or ≤ 60 CFM. Additionally, the R measured pressure difference between the space containing the air handler and the conditioned space air handler running at high speed, is ≤ 5 Pa. For systems > 1 ton, increase by 1 Pa per half ton. One or two ducted returns ³⁶: The greater of ≤ 8 CFM25 per 100 sq. ft. of CFA or ≤ 80 CFM. Three or more ducted returns ³⁶: The greater of ≤ 12 CFM25 per 100 sq. ft. of CFA or ≤ 120 CFM. Townhouses only: Rater-measured duct leakage to the outside the greater of ≤ 4 CFM25 per 100 sq. ft. of 40 CFM25. ^{48, 52} Common Space: Supply, return, and exhaust ductwork and all plenums are sealed at all transverse joints, 	e, with the CFA or ≤	0		
& register grilles atop the finished surface (e.g., drywall, floor) installed. ⁵¹ No ducted returns ³⁶ : The greater of ≤ 6 CFM25 per 100 sq. ft. of CFA or ≤ 60 CFM. Additionally, the R measured pressure difference between the space containing the air handler and the conditioned space air handler running at high speed, is ≤ 5 Pa. For systems > 1 ton, increase by 1 Pa per half ton. One or two ducted returns ³⁶ : The greater of ≤ 8 CFM25 per 100 sq. ft. of CFA or ≤ 80 CFM. Three or more ducted returns ³⁶ : The greater of ≤ 12 CFM25 per 100 sq. ft. of CFA or ≤ 120 CFM. 5.5 Townhouses only: Rater-measured duct leakage to the outside the greater of ≤ 4 CFM25 per 100 sq. ft. of 40 CFM25. ^{48,52} 6.6 Common Space: Supply, return, and exhaust ductwork and all plenums are sealed at all transverse joints, longitudinal seams, and duct wall penetrations with mastic or mastic tape.	e, with the CFA or ≤ two option	0		

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EGC SPECIFICATIONS

EXP DATE 12.31.2023 Progress Dates 2023.04.28 - BID/PERMIT

Revisions

Design Team: CO, JK, MR, MR, RK, RO, SO, TB Drawn by:

National Rater Field Checklist

ENERGY STAR	ENER	GY STAR Multifamily No	ew Construction, Version 1 / 1.1 / 1.2	Rev.	. 01)	
		on Space Mechanical Ventilation deport Item # indicated in parenthesis		Must Correct	Rater Verified ⁴	N/A ⁵
7.1 Ventilation n □ National I			-			
7.2 Rater-measi exceeds ra	_	_	-			
7.3 Measured ve exceeds ra			1			
7.4 Townhouses obvious (e. equipment)						
7.5 No outdoor a operate inter damper).			-			
7.6 If located in	the dwelling	unit, system fan rated ≤ 3 sones if in	termittent, ≤ 2 sones if continuous, or exempted. ⁵⁶			-
			ed fan type is ECM / ICM (4.12), or the controls will nours when the HVAC system is heating or cooling.			
7.8 In-unit bathroom fans or in-line fans are ENERGY STAR certified if used as part of the dwelling-unit mechanical ventilation system. 57						
	relling-unit mechanical ventilation system, then they are they are installed with NEMA $^{\text{TM}}$ Premium Motors.	_				
7.10 Air inlet loc	-	-				
7.10.1 Inlet(s) pull ventilation air directly from outdoors and not from attic, crawlspace, garage, or adjacent dwelling unit.						-
7.10.2 Inlet(s) sources	_		-			
8. Local Mecha	anical Exha	ust (National HVAC Design Report I	Item # indicated in parenthesis)			
			hen and bathroom, a system is installed that exhausts dufacturer-rated sound level standards: 54,61	irectly to	the outdoo	rs
Location		Continuous Rate	Intermittent Rate 62	Must Correct	Rater Verified ⁴	N/A ⁵
8.1 Kitchen	Airflow	≥ 5 ACH, based on kitchen volume ^{63, 64}	\geq 100 CFM and, if not integrated with range, also \geq 5 ACH based on kitchen volume ^{63, 64, 65}	0		-
	Sound	Recommended: ≤ 1 sone	Recommended: ≤ 3 sones			
8.2 Bathroom	Airflow	≥ 20 CFM	≥ 50 CFM			_
	Sound	Required: ≤ 2 sones	Recommended: ≤ 3 sones		_	
		rage Mechanical Exhaust				
		are ≥ ASHRAE 62.1 rates (2c). ⁵⁵				
	age exhaust	ventilation system is installed, it is e	quipped with controls that sense CO and NO2.			
9.1 MERV 6+ file	ter(s) installe	ed in each dwelling unit ducted mech	. System, serving an individual dwelling unit located to			
9.1.1 Filter ac		ar service by the occupant or building ncludes gasket and fits snugly agains	g owner. •• st the exposed edge of filter when closed to prevent		_	_
bypass. 67						
		chanically supplied outdoor air passe	es unough litter prior to conditioning.			
 10. Combustion Appliances 10.1 Furnaces, boilers, and water heaters located within the building's pressure boundary are mechanically drafted or direct-vented. If mechanically drafted, the minimum volume of combustion air required for safe operation by the manufacturer and/or code shall be met or exceeded and make-up air sources must be mechanically closed when the combustion appliance is not in operation. Alternatives in Footnote 70. ^{68, 69, 70} 						
direct-vente manufactur	ed. If mechar er and/or co	water heaters located within the build nically drafted, the minimum volume of de shall be met or exceeded and mal	of combustion air required for safe operation by the ke-up air sources must be mechanically closed when	_	_	
direct-vente manufactur the combus	ed. If mechar er and/or coestion appliance	water heaters located within the build nically drafted, the minimum volume of de shall be met or exceeded and mal	of combustion air required for safe operation by the ke-up air sources must be mechanically closed when Footnote 70. ^{68, 69, 70}		0	

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National Rater Field Checklist Footnotes

ENERGY STAR Multifamily New Construction Version 1 / 1.1 / 1.2 (Rev.01)

18. Examples of durable covers include, but are not limited to, pre-fabricated covers with integral insulation, rigid foam adhered to cover with adhesive, or batt insulation mechanically fastened to the cover (e.g., using bolts, metal wire, or metal strapping. Low-slope roof hatch covers

19. Consistent with the 2009 IECC, slab edge insulation is only required for slab-on-grade floors with a floor surface less than 24 inches below

- grade. Slab-on-grade perimeter insulation shall extend to the top of the slab to provide a complete thermal break. If the top edge of the insulation is installed between the exterior wall and the edge of the interior slab, it shall be permitted to be cut at a 45-degree angle away from the exterior wall. Alternatively, the thermal break is permitted to be created using ≥ R-3 rigid insulation on top of an existing slab (e.g., in a building undergoing a gut rehabilitation). In such cases, up to 10% of the slab surface is permitted to not be insulated (e.g., for sleepers, for sill plates). Insulation installed on top of slab shall be covered by a durable floor surface (e.g., hardwood, tile, carpet).
- 20. Where an insulated wall separates a garage, patio, porch, or other unconditioned space from the conditioned space of the building, slab perimeter insulation shall also be installed at this interface to provide a thermal break between the conditioned and unconditioned slab, if the slab is in contact with the ground at that interface. Where specific details cannot meet this requirement, partners shall provide the detail to EPA to request an exemption prior to the building's certification. EPA will compile exempted details and work with industry to develop feasible details for use in future revisions to the program. A list of currently exempted details is available at: www.energystar.gov/slabedge.
- 21. For projected balconies, install a minimum of R-5 slab edge insulation to provide a thermal break between conditioned space and the unconditioned projected balcony slab. Alternatively, a UA calculation for the wall assembly that accounts for this uninsulated projected slab must be performed to demonstrate compliance with Item 1.2. For the purpose of this UA calculation, the area of the wall that is uninsulated due to the projected balcony is required to be calculated as 400% of that actual area. For example, for a projected balcony that is 20 feet wide, and has a thickness of 1 foot, the area to be used in the UA calculation is 80 ft² instead of 20 ft². The distance the balcony projects from the building is not used in this calculation.
- 22. Whether insulating from above or below the slab, thermal breaks must be accounted for when determining compliance with floor U-factors. Where structural columns cause a discontinuity in the installed floor insulation, the UA calculation for the floor assembly must account for this uninsulated area of the floor. For the purpose of this UA calculation, the area of the floor that is uninsulated due to the structural columns is required to be calculated as 400% of that actual area. For example, for a 4'x4' column, the area to be used in the UA calculation is 64 ft2 instead of 16 ft². The height of the column is not used in this calculation. Alternatively, if the structural column is insulated for a minimum of 4 vertical feet, the modification to the UA calculation is not required, and the U-value of the column insulation shall be associated with the uninsulated area of the floor due to the column
- 23. Item 3.7 is applicable to walls that are adjacent to other buildings or adjacent to unconditioned spaces within the building. Mass walls utilized as the thermal mass component of a passive solar design (e.g., a Trombe wall) are exempt from this Item. To be eligible for this exemption, the passive solar design shall be comprised of the following five components: an aperture or collector, an absorber, thermal mass, a distribution system, and a control system. For more information, see: www.energy.gov/sites/prod/files/guide_to_passive_solar_home_design.pdf.
- Mass walls that are not part of a passive solar design (e.g., CMU block or log home enclosure) shall either utilize the strategies outlined in Item 3.7 or the pathway in the assembly with the least thermal resistance, as determined using a method consistent with the 2013 ASHRAE Handbook of Fundamentals, shall provide ≥ 50% of the applicable assembly resistance, defined as the reciprocal of the mass wall equivalent U-factor in the 2009 IECC Table 502.1.2. Documentation identifying the pathway with the least thermal resistance and its resistance value shall be collected by the Rater and any Builder Verified or Rater Verified box under Item 3.7 shall be checked.
- 24. Up to 10% of the total exterior wall surface area is exempted from the reduced thermal bridging requirements to accommodate intentional designed details (e.g., architectural details such as thermal fins, wing walls, brick returns, stone window sills, metal panels, or masonry fireplaces; structural details, such as fasteners (e.g., shelf angles, metal clips, z-girts, brick ties), projected balconies, and service openings (e.g., PTACs or PTHPs), but not steel columns or wall area occupied by intermediate floors). It shall be apparent to the Rater that the exempted areas are intentional designed details or the exempted area shall be documented in a plan provided by the builder, architect, or engineer. The entire area of the wall area that is bypassed by the fastener must be used in the calculation. The Rater need not evaluate the necessity of the designed detail to certify the project.
- 25. If used, insulated siding shall be attached directly over a water-resistive barrier and sheathing. In addition, it shall provide the required Rvalue as demonstrated through either testing in accordance with ASTM C 1363 or by attaining the required R-value at its minimum thickness. Insulated sheathing rated for water protection can be used as a water resistant barrier if all seams are taped and sealed. If non-insulated structural sheathing is used at corners, the advanced framing details listed in Item 3.7.3 shall be met for those wall sections
- 26. Walls and rim / band joists using steel or other metal framing shall meet the reduced thermal bridging requirements by complying with Item 3.7.1 of the Checklist and may not demonstrate compliance using Item 3.7.2 or 3.7.3.
- 27. In a building undergoing a gut rehabilitation, continuous interior insulation may be used in lieu of continuous exterior rigid insulation or
- 28. Double-wall framing is defined as any framing method that ensures a continuous layer of insulation covering the studs to at least the R-value required in Item 3.7.1 of the Checklist, such as offset double-stud walls, aligned double-stud walls with continuous insulation between the adjacent stud faces, or single-stud walls with 2x2 or 2x3 cross-framing. In all cases, insulation shall fill the entire wall cavity from the interior to exterior sheathing except at windows, doors and other penetrations.
- 29. Rim / band joists are exempt from this requirement. For the purpose of this requirement, "≤ 3 stories" refers to any portion of the building elevation where the wood-framed walls do not exceed 3 stories in height. Partial floors that meet the definition of a mezzanine or loft, as defined by the 2012 IRC, do not count as a story. All 'advanced framing' details shall be met except where the builder, architect, or engineer provides a framing plan that encompasses the details in question, indicating that structural members are required at these locations and including the rationale for these members (e.g., full-depth solid framing is required at wall corners or interior / exterior wall intersections for shear strength, a full-depth solid header is required above a window to transfer load to jacks studs, additional jack studs are required to support transferred loads, additional cripple studs are required to maintain on-center spacing, or stud spacing must be reduced to support multiple stories in a multifamily building). The Rater shall retain a copy of the detail and rationale for their records, but need not evaluate the rationale to certify the building.
- 30. All exterior corners shall be constructed to allow access for the installation of ≥ R-6 insulation that extends to the exterior wall sheathing. Examples of compliance options include standard-density insulation with alternative framing techniques, such as using three studs per corner, or high-density insulation (e.g., spray foam) with standard framing techniques. Page 7 of 12

Builder/Developer Name:

Licensed Professional:

National Rater Field Checklist

ENERGY STAR Multifamily New Construction, Version 1 / 1.1 / 1.2 (Rev. 01) Must LP Rater Verified 4 Verified 4 N/A 5 11.1 Prescriptive Path: Hot water equipment rated in EF or UEF meet the efficiency levels specified in the ENERGY STAR Multifamily Reference Design. Boilers providing hot water are ≥85% Et. ⁷¹ 11.2 ERI: For hot water equipment serving common spaces but not dwelling units nor shared laundry: where rated in EF or UEF, meet the efficiency levels specified in the ENERGY STAR Multifamily Reference Design. Where rated in thermal efficiency, meet or exceed 85% Et. 7 11.3 For in-unit storage water heaters, AHRI Certificate confirms the presence of a heat trap. 11.4 DHW piping located in the dwelling unit is insulated with a minimum of R-3. 72 11.5 Rater-measured delivery temperatures at faucets and showerheads do not exceed 125°F. 73 12. Lighting 12.1 Common Space ² Lighting Controls: 12.1.1 ERI and Prescriptive Path: All common spaces 2 (including shared garages), except the building lobby and where automatic shutoff would endanger the safety of occupants, have occupancy sensors or automatic bi-level lighting controls installed and operation has been verified. 12.1.2 ASHRAE path only: All common spaces 2 (including shared garages), except the building lobby, corridors, and stairwells and where automatic shutoff would endanger the safety of occupants, have occupancy sensors or automatic bi-level lighting controls installed and operation has been verified. 12.2 Common Space ² Lighting Power Density Maximum (except garages): 12.2.1 ERI and Prescriptive Path: Total installed lighting power for the combined common spaces ² must not exceed ASHRAE 90.1-2007 allowances for those combined spaces, using the Space-by-Space or Building Area Method. See Footnote 75 for allowances. 75 12.2.2 ASHRAE path only: Total installed lighting power for the combined common spaces 2 must not exceed ASHRAE 90.1-2007 allowances for those combined spaces, using the Space-by-Space or Building Area Method, by more than 20%. See Footnote 75 for allowances. 75 12.3 Shared garages: Lighting power density does not exceed 0.24 W/ft². 12.4 Exterior lighting controls: Fixtures, including parking lot fixtures, must include automatic switching on timers or photocell controls except fixtures intended for 24-hour operation, required for security, or located on dwelling unit balconies. 12.5 ERI Path: All exterior and common space lighting fixtures meet the efficiency requirements in the ENERGY STAR Multifamily Reference Design, except fixtures located on dwelling unit balconies. 76,77 12.6 Prescriptive Path: All lighting fixtures (i.e., dwelling units, common spaces, and exterior) meet the efficiency requirements in the ENERGY STAR Multifamily Reference Design. 76,77 2.7 Prescriptive Path: Dwelling unit overall in-unit lighting power density ≤ 0.75 W/ft². When calculating overall lighting power density, use 1.1 W/ft² where lighting is not installed. ⁷⁴ 13. Appliances and Plumbing Fixtures 13.1 Prescriptive Path: Installed appliances and plumbing fixtures in dwelling units and common spaces meet the criteria in the ENERGY STAR Multifamily Reference Design. 78 13.2 ERI Path: Installed appliances and plumbing fixtures in common spaces, and not included in the ERI model, meet the criteria in the ENERGY STAR Multifamily Reference Design. 78 13.3 Prescriptive Path: Shower compartments with multiple fixtures cannot be operated simultaneously OR the total flow rate per shower compartment must not exceed 1.75 gallons per minute, as rated at 80 psi. 4. Whole Building Energy Consumption Data Acquisition Strategy

14.1 For buildings 50,000 ft² and larger, a strategy that enables the collection of monthly or annual building-level energy consumption data (electricity, natural gas, chilled water, steam, fuel oil, propane, etc.) has been confirmed. ⁷⁹ Rater Name: Rater Pre-Drywall Inspection Date(s): Rater Initials: Rater Company Name: Rater Name: Rater Final Inspection Date(s): Rater Initials: Rater Company Name: Builder/Developer Employee Builder Inspection Date(s): Builder Initials:

LP Inspection Date(s):

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- 31. Compliance options include continuous rigid insulation sheathing, SIP headers, other prefabricated insulated headers, single-member or two-member headers with insulation either in between or on one side, or an equivalent assembly. R-value requirement refers to
- 32. Insulation shall run behind interior / exterior wall intersections using ladder blocking, full length 2x6 or 1x6 furring behind the first partition stud, drywall clips, or other equivalent alternative
- 33. In Climate Zones 1 through 3, a continuous stucco cladding system sealed to windows and doors is permitted to be used in lieu of sealing rough openings with caulk or foam.
- 34. For dwelling or sleeping units adjacent to garages, EPA recommends, but does not require, carbon monoxide (CO) alarms installed in a central location in the immediate vicinity of each separate sleeping zone and according to NFPA 720. 35. Where a sampling protocol is permitted in accordance with the National or California Program Requirements, at least 20% of the dwelling or
- sleeping units adjacent to a garage shall be selected for testing. 36. A 'ducted return' is defined as a continuous duct made of sheet metal, duct board, or flexible duct that connects one or more return grilles to
- the return-side inlet of the air handler. Any other approach to convey air from return or transfer grille(s) to the air handler, such as the use of building cavities, does not constitute a 'ducted return' 37. This section of the Checklist is designed to meet the requirements of ASHRAE 62.1-2010 / 2013, ASHRAE 62.2-2010 / 2013, and ANSI /
- ACCA's 5 QI-2015 protocol, thereby improving the performance of HVAC equipment in new multifamily buildings when compared to multifamily buildings built to minimum code. However, these features alone cannot prevent all ventilation, indoor air quality, and HVAC problems, (e.g., those caused by a lack of maintenance or by occupant behavior). Therefore, this Checklist is not a guarantee of proper ventilation, indoor air quality, or HVAC performance.
- 38. Two paths are provided for satisfying the mandatory requirements for all certified buildings, Exhibit 2. Path A Dwelling Unit HVAC Grading allows a Rater to utilize ANSI / RESNET / ACCA Std. 310 39, a standard for grading the installation of residential HVAC systems serving individual Dwelling Units and a Functional Testing Agent to verify common spaces and central systems. Path B – Functional Testing Agent utilizes a Functional Testing Agent for all systems. Either path may be selected, but all requirements within that path must be satisfied for the building to be certified
- 39. Path A Dwelling Unit HVAC Grading shall not be used until an Effective Date has been defined by RESNET for ANSI / RESNET / ACCA Std. 310. Path A - Dwelling Unit HVAC Grading shall then use ANSI / RESNET / ACCA Std. 310 including all Addenda and Normative Appendices, with new versions and Addenda implemented according to the Effective Date and Transition Period End Date defined by RESNET. RESNET interpretations of Standard 310 shall also be followed. For units following path A, all unitary HVAC Systems including air conditioners and heat pumps up to 65 kBtuh and furnaces up to 125 kBtuh serving individual dwelling or sleeping units shall comply with 5a.1 through 5a.3 for the building to be certified.
- 40. If the non-invasive procedure in ANSI / RESNET / ACCA Std. 310 is not permitted to be used during the final inspection of a unit (i.e., due to the equipment type or to outdoor air temperatures that do not meet the requirements of the non-invasive method), then the unit is permitted to be certified with a default refrigerant charge designation of Grade III. Note that in these circumstances, the weigh-in method procedure in ANSI / RESNET / ACCA Std. 310 may still be used to pursue a Grade I designation.
- 41. If installed equipment does not match the National HVAC Design Report, then prior to certification the Rater shall obtain written approval from the designer (e.g., email, updated National HVAC Design Report) confirming that the installed equipment meets the requirements of the National HVAC Design Report. In cases where the condenser unit is installed after the time of inspection by the Rater, the HVAC manufacturer and model numbers on installed equipment can be documented through the use of photographs provided by the Functional
- 42. The Rater shall measure and record the external static pressure in the return-side and supply-side of the system using the contractorprovided test locations. However, at this time, the Rater need not assess whether these values are within a specific range to certify the
- 43. Functional Testing Agents must hold an approved credential, as listed at www.energystar.gov/ftas, or must be a representative of the Original Equipment Manufacturer (OEM), or a contractor credentialed by an HVAC Quality Installation Training and Oversight Organization (H-QUITO), if not completing Sections 6 and higher. Functional Testing Agents may not be the installing contractor unless they are a credentialed contractor. An explanation of the credentialing process and links to H-QUITOs, which maintain lists of credentialed contractors, can be found at www.energystar.gov/findhvac. A directory of other FT Agents can be found at www.energystar.gov/ftas. For Path A, a Functional Testing Agent is not needed to complete Sections 2 and 3 for unitary HVAC systems serving dwelling units that will be verified
- 44. At the discretion of the Rater, a Licensed Professional (LP), (i.e., a Registered Architect or Professional Engineer in good standing and with a current license), may verify any of the items in Sections 5, 11, and 12 of this Checklist, where a checkbox is provided for "LP Verified". When exercised, the LP's responsibility will be formally acknowledged by the LP signing off on the checklist for the item(s) that they verified. However, if a quality assurance review indicates that Items have not been successfully completed, the Rater will be responsible for facilitating
- 45. Kinks are to be avoided and are caused when ducts are bent across sharp corners such as framing members. Sharp bends are to be avoided and occur when the radius of the turn in the duct is less than one duct diameter. Compression is to be avoided and occurs when flexible ducts in unconditioned space are installed in cavities smaller than the outer duct diameter and ducts in conditioned space are installed in cavities smaller than inner duct diameter. Ducts shall not include coils or loops except to the extent needed for acoustical control.
- 46. Item 6.2 does not apply to ventilation ducts, exhaust ducts, or non-ducted systems. For an HVAC system with a multi-speed fan, the highest design fan speed shall be used when verifying this requirement. When verifying this requirement, doors separating bedrooms from the main body of the dwelling unit (e.g., a door between a bedroom and a hallway) shall be closed and doors to rooms that can only be entered from the bedroom (e.g., a closet, a bathroom) shall be open. The Rater-measured pressure shall be rounded to the nearest whole number to
- 47. Item 6.3 does not apply to ducts that are a part of local mechanical exhaust or exhaust-only dwelling-unit mechanical ventilation systems. EPA recommends, but does not require, that all metal ductwork not encompassed by Section 6 (e.g., exhaust ducts, duct boots, ducts in conditioned space) also be insulated and that insulation be sealed to duct boots to prevent condensation

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I is the compression caused by the excess insulation.

- 1. This Checklist applies to all dwelling units, sleeping units, common spaces ², and garages (open or enclosed) in the building being certified, and where specified, parking lots. These requirements do not apply to parking garages or lots where the cost of the energy use of the parking garage or lot is not the responsibility of the Builder/Developer, Building Owner or Property Manager. This Checklist does not apply to commercial or retail spaces. This Checklist does not apply to common spaces 2 that are located in buildings on the property without any dwelling or sleeping units. The term 'sleeping unit' refers to a room or space in which people sleep, which can also include permanent provisions for living, eating, and either sanitation or kitchen facilities but not both. Where the term 'dwelling unit' is used in this Checklist, the requirement is also required of 'sleeping' units. The term 'building' refers to a structure utilized or intended for supporting or sheltering occupancy for a residential purpose; a structure with no dwelling or sleeping units connected to a structure with dwelling or sleeping units by less than 10% of its exterior wall area is not to be included in the 'building'.
- 2. The term 'common space' refers to any spaces in the building being certified that serve a function in support of the residential part of the building that is not part of a dwelling or sleeping unit. This includes spaces used by residents, such as corridors, stairs, lobbies, laundry rooms, exercise rooms, residential recreation rooms, and dining halls, as well as offices and other spaces used by building management, administration or maintenance in support of the residents.
- 3. At the discretion of the Rater, the builder or developer may verify up to eight items in Sections 1-4 of this Checklist. For the purpose of this Checklist, "Builder" represents either the builder or the developer. When exercised, the builder's responsibility will be formally acknowledged by the builder, or their designated agent, signing off on the checklist for the item(s) that they verified. However, if a quality assurance review
- indicates that Items have not been successfully completed, the Rater will be responsible for facilitating corrective action. 4. The term 'Rater' refers to the person(s) completing the third-party verification required for certification. The person(s) shall: a) be a Certified Rater, Approved Inspector, or an equivalent designation as determined by a Verification Oversight Organization or Multifamily Review
- Organization and, b) have attended and successfully completed an EPA-recognized training class. See www.energystar.gov/mftraining. 5. The column titled "N/A," which denotes items that are "not applicable," should be used when the checklist Item is not present in the project
- 6. Two alternatives are provided: a) Grade II cavity insulation is permitted to be used for assemblies that contain a layer of continuous, air impermeable insulation ≥ R-3 in Climate Zones 1 to 4, ≥ R-5 in Climate Zones 5 to 8; b) Grade II batts are permitted to be used in floors if they fill the full width and depth of the floor cavity, even when compression occurs due to excess insulation, as long as the R-value of the batts has been appropriately assessed based on manufacturer guidance and the only defect preventing the insulation from achieving Grade
- 7. Ensure compliance with this requirement using ANSI / RESNET / ICC Std. 301 including all Addenda and Normative Appendices, with new versions and Addenda implemented according to the Effective Date and Transition Period End Date defined by RESNET. RESNET interpretations of Standard 301 shall also be followed.
- 8. Window-to-Wall ratio is taken as the sum of all window area divided by the total exterior above-grade wall area. All decorative glass and skylight window area contribute to the total window area to above-grade wall ratio (WWR). Spandrel sections of curtain wall systems contribute to the above-grade wall area.
- 9. Compliance with Items 1.5 and 1.6 is not required for ASHRAE projects, but the energy used by the heating systems must be modeled following the requirements in the Simulation Guidelines, available at www.energystar.gov/mfguidance.

10. The bottom of the plenum is permitted to be suspended ceiling tiles or other non-air barrier material. If fiberglass insulation is installed, it

- 11. For purposes of this Checklist, an air barrier is defined as any durable solid material that blocks air flow between conditioned space and unconditioned space, including necessary sealing to block excessive air flow at edges and seams and adequate support to resist positive and negative pressures without displacement or damage. EPA recommends, but does not require, rigid air barriers.
- Open-cell or closed-cell foam shall have a finished thickness ≥ 5.5 in. or 1.5 in., respectively, to qualify as an air barrier unless the manufacturer indicates otherwise If flexible air barriers such as house wrap are used, they shall be fully sealed at all seams and edges and supported using fasteners with caps or heads ≥ 1 in. diameter unless otherwise indicated by the manufacturer. Flexible air barriers shall not be made of kraft paper, paper-
- based products, or other materials that are easily torn. If polyethylene is used, its thickness shall be ≥ 6 mil. 12. All insulated ceiling surfaces, regardless of slope (e.g., cathedral ceilings, tray ceilings, conditioned attic roof decks, flat ceilings, sloped ceilings), must meet the requirements for ceilings, unless the ceiling is adiabatic.
- 13. All insulated vertical surfaces are considered walls (e.g., above and below grade exterior walls, knee walls) and must meet the air barrier requirements for walls. The following exceptions apply: air barriers recommended, but not required, in adiabatic walls; and, in Climate Zones 4 through 8, an air barrier at the interior vertical surface of insulation is recommended but not required in basement walls or crawlspace walls. For the purpose of these exceptions, a basement or crawlspace is a space for which ≥ 40% of the total gross wall area is below-grade.
- 14. EPA highly recommends, but does not require, an air barrier at the interior vertical surface of floor insulation in Climate Zones 4-8. 15. Examples of supports necessary for permanent contact include staves for batt insulation or netting for blown-in insulation. Alternatively, supports are not required if batts fill the full depth of the floor cavity, even when compression occurs due to excess insulation, as long as the R-value of the batts has been appropriately assessed based on manufacturer guidance and the only defect preventing the insulation from achieving the required installation grade is the compression caused by the excess insulation
- 16. Alternatively, an air barrier is permitted to be installed at the exterior horizontal surface of the floor insulation if the insulation is installed in contact with this air barrier, the exterior vertical surfaces of the floor cavity are also insulated, and air barriers are included at the exterior vertical surfaces of this insulation 17. The minimum designated R-values must be achieved regardless of the trade-offs determined using an equivalent U-factor or UA alternative

calculation. Note that if the minimum designated values are used, then higher insulation values may be needed elsewhere to meet Item 1.2. Also, note that these requirements can be met by using any available strategy, such as a raised-heel truss, alternate framing that provides adequate space, and / or high-density insulation.

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- 48. Item 6.4 and 6.5 only apply to heating, cooling, and balanced ventilation ducts that only serve one dwelling unit. Duct leakage testing is not required if the ducts and air handler are in conditioned space and the total supply duct length of the system, including all supply trunks and branches, is ≤ 10 ft. Duct leakage shall be determined and documented by a Rater using ANSI / RESNET / ICC Std. 380 including all Addenda and Normative Appendices, with new versions and Addenda implemented according to the Effective Date and Transition Period End Date defined by RESNET. RESNET interpretations of Standard 380 shall also be followed. Leakage limits shall be assessed on a persystem, rather than per-dwelling unit, basis. For balanced ventilation ducts that are not connected to space heating or cooling systems, a Rater is permitted to visually verify, in lieu of duct leakage testing, that all seams and connections are sealed with mastic or metal tape and all duct boots are sealed to floor, wall, or ceiling using caulk, foam, or mastic tape.
- 49. Note that compliance with Item 6.4.1 or 6.4.2 in conjunction with Section 4a of the National Rater Design Review Checklist automatically achieves Grade I total duct leakage per ANSI / RESNET / ACCA Std. 310.
- 50. Cabinets (e.g., kitchen, bath, multimedia) or ducts that connect duct boots to toe-kick registers are not required to be in place during the
- 51. Registers atop carpets are permitted to be removed and the face of the duct boot temporarily sealed during testing. In such cases, the Rater shall visually verify that the boot has been durably sealed to the subfloor (e.g., using duct mastic or caulk) to prevent leakage during normal
- 52. Testing of duct leakage to the outdoors can be waived in accordance with the 2nd or 3rd alternative of ANSI / RESNET / ICC Std. 301, Table 4.2.2 (1), footnote (w). Alternatively, testing of duct leakage to outdoors can be waived in accordance with Section 5.5.2 of ANSI / RESNET / ICC Std. 380 if total duct leakage, at rough-in or final, is ≤ 4 CFM25 per 100 sg. ft. of conditioned floor area or 40 CFM25, whichever is larger. Guidance to assist partners with these alternatives, including modeling inputs, is available at www.energystar.gov/newhomesguidance.
- 53. For the purpose of computing leakage allowance, exhaust fan flow shall be the lesser of the rated fan flow and at rough-in, 133% of the sum of the design exhaust airflow of the dwelling units that are exhausted by that central fan or at final, 143% of the sum of the design exhaust airflow of the dwelling units that are exhausted by that central fan. Duct leakage shall be tested at the design or average operating pressure and shall use the procedures in the RESNET Guidelines for Multifamily Energy Ratings, available at www.resnet.us/blog/resnet-adoptsguidelines-for-multifamily-energy-ratings/. Where testing at the design or average operating pressure is not feasible, testing at 50 Pa is permitted, however the following flow equation must be used to determine the leakage allowance at 50 Pa.

 $CFM_{50} = CFM_{design} / [P_{design}^{(0.65)} / 50^{(0.65)}]$

No less than 50% of the ductwork, based on total linear feet, shall be tested and must include ductwork other than the main trunks. Where portions of ductwork are tested, rather than entire risers, the percentage of leakage allowed is based upon the design airflow of the dwelling units that are exhausted in that portion. Where failures occur, the percentage of total linear feet required to be tested increases by 10%. Where aerosol-based sealant is used on some but not all risers, the ductwork selected for testing must be representative of all sealing strategies used. This test is not required of central exhaust systems serving clothes dryers

- 54. The dwelling-unit ventilation air flow and local exhaust air flows shall be determined and documented by a Rater using ANSI / RESNET / ICC Std. 380 including all Addenda and Normative Appendices, with new versions and Addenda implemented according to the Effective Date and Transition Period End Date defined by RESNET. RESNET interpretations of Standard 380 shall also be followed. In Item 7.2, the dwelling-unit ventilation rates required by ASHRAE 62.2-2010 can be calculated using the Multifamily Workbook or the following equation: 0.01 x Conditioned Floor Area + 7.5 x (number of bedrooms + 1). Where local codes do not permit dwelling-unit ventilation to exceed ASHRAE 62.2-2010 rates, Rater-measured ventilation rate is permitted to be 0-15 CFM less than rates required by ASHRAE 62.2-2010.
- 55. While common spaces are not under the scope of ANSI / RESNET / ICC Std. 380, the ventilation air flow and exhaust air flows in common spaces shall be measured in accordance with the procedures in ANSI / RESNET / ICC Std. 380. The air flows may be measured by a Rater or a certified air-balancing contractor under the observation of a Rater. Where a system provides supply air that is a mix of return and outdoor air, and not 100% outdoor air, the outdoor air intake airflow shall be measured and compared to the total supply airflow to determine percentage of outdoor air supplied. This percentage shall be applied to airflow measured at supply registers to determine outdoor air provided for comparison to design airflow rates.
- 56. Dwelling-unit mechanical ventilation fans shall be rated for sound at no less than the airflow rate in Item 2.7 of the National HVAC Design Report. Fans exempted from this requirement include HVAC air handler fans, remote-mounted fans, and intermittent fans rated ≥ 400 CFM. To be considered for this exemption, a remote-mounted fan must be mounted outside the habitable spaces, bathrooms, toilets, and hallways and there shall be ≥ 4 ft. ductwork between the fan and intake grill. Per ASHRAE 62.2-2010, habitable spaces are intended for continual human occupancy; such space generally includes areas used for living, sleeping, dining, and cooking but does not generally include bathrooms, toilets, hallways, storage areas, closets, or utility rooms.
- 57. Bathroom fans with a rated flow rate ≥ 500 CFM are exempted from the requirement to be ENERGY STAR certified.
- 58. Ventilation air inlets that are only visible via rooftop access are exempted from Item 7.9 and the Rater shall mark "N/A". The outlet and inlet of balanced ventilation systems shall meet these spacing requirements unless manufacturer instructions indicate that a smaller distance may be used. However, if this occurs the manufacturer's instructions shall be collected for documentation purposes
- 59. Without proper maintenance, ventilation air inlet screens often become filled with debris. Therefore, EPA recommends, but does not require, that these ventilation air inlets be located so as to facilitate access and regular service by the building owner.
- 60. Known contamination sources include, but are not limited to, stacks, vents, exhausts, and vehicles.
- 61. Continuous bathroom local mechanical exhaust fans shall be rated for sound at no less than the airflow rate in Item 8.2. Intermittent bathroom and both intermittent and continuous kitchen local mechanical exhaust fans are recommended, but not required, to be rated for sound at no less than the airflow rate in Items 8.1 and 8.2. Per ASHRAE 62.2-2010, an exhaust system is one or more fans that remove air from the building, causing outdoor air to enter by ventilation inlets or normal leakage paths through the building envelope (e.g., bath exhaust fans, range hoods, clothes dryers). Per ASHRAE 62.2-2010, a bathroom is any room containing a bathtub, shower, spa, or similar source of
- 62. An intermittent mechanical exhaust system, where provided, shall be designed to operate as needed by the occupant. Control devices shall not impede occupant control in intermittent systems

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EXP DATE 12.31.2023 Progress Dates

2023.04.28 - BID/PERMIT

Revisions

MR, AM

CO, JK, MR, MR, RK, RO, SO, TB Drawn by:

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Job No: 22042 04/28/2023

EGC SPECIFICATIONS

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- 63. Kitchen volume shall be determined by drawing the smallest possible rectangle on the floor plan that encompasses all cabinets, pantries, islands, peninsulas, ranges / ovens, and the kitchen exhaust fan, and multiplying by the average ceiling height for this area. In addition, the continuous kitchen exhaust rate shall be ≥ 25 CFM, per 2009 IRC Table M1507.3, regardless of the rate calculated using the kitchen volume. Cabinet volume shall be included in the kitchen volume.
- 64. Alternatively, the prescriptive duct sizing requirements in Table 5.3 of ASHRAE 62.2-2010 are permitted to be used for kitchen exhaust fans based upon the rated airflow of the fan at 0.25 lWC. If the rated airflow is unknown, ≥ 6 in. smooth duct shall be used, with a rectangular to round duct transition as needed. Guidance to assist partners with these alternatives is available at www.energystar.gov/newhomesguidance. As an alternative to Item 8.1, dwelling units are permitted to use a continuous kitchen exhaust rate of 25 CFM per 2009 IRC Table M1507.3, if they are either a) PHIUS+ or PHI certified, or b) provide both dwelling-unit ventilation and local mechanical kitchen exhaust using a balanced system, and have a Rater-verified whole-building infiltration rate ≤ 0.05 CFM50 per sq. ft. of Enclosure Area, and a Rater-verified dwelling unit compartmentalization rate ≤ 0.30 CFM50 per sq. ft. of Enclosure Area if multiple dwelling units are present in the building. 'Enclosure Area' is defined as the area of the surfaces that bound the volume being pressurized / depressurized during the test.
- 65. All intermittent kitchen exhaust fans must be capable of exhausting at least 100 CFM. In addition, if the fan is not part of a vented range hood or appliance-range hood combination (i.e., if the fan is not integrated with the range), then it must also be capable of exhausting ≥ 5 ACH, based on the kitchen volume.
- 66. Based upon, ASHRAE 62.2-2010, ducted mechanical systems are those that supply air to an occupiable space with a total amount of supply ductwork exceeding 10 ft. in length and through a thermal conditioning component, except for evaporative coolers. Systems that do not meet this definition are exempt from this requirement. While filters are recommended for mini-split systems, HRV's, and ERV's, these systems, ducted or not, typically do not have MERV-rated filters available for use and are, therefore, also exempted under this version of the requirements. HVAC filters located in the attic shall be considered accessible to the occupant or building owner if either 1) drop-down stairs provide access to attic and a permanently installed walkway has been provided between the attic access location and the filter or 2) the filter location enables arm-length access from a portable ladder without the need to step into the attic and the ceiling height where access is provided is ≤ 12 ft.
- 67. Sealing mechanisms comparable to a gasket are also permitted to be used. The filter media box (i.e., the component in the HVAC system that houses the filter) may be either site-fabricated by the installer or pre-fabricated by the manufacturer to meet this requirement. These requirements only apply when the filter is installed in a filter media box located in the HVAC system, not when the filter is installed flush
- 68. The pressure boundary is the primary enclosure boundary separating indoor and outdoor air. For example, a volume that has more leakage to outside than to conditioned space would be outside the pressure boundary.
- 69. Per the 2009 International Mechanical Code, a direct-vent appliance is one that is constructed and installed so that all air for combustion is derived from the outdoor atmosphere and all flue gases are discharged to the outside atmosphere; a mechanical draft system is a venting system designed to remove flue or vent gases by mechanical means consisting of an induced draft portion under non-positive static pressure or a forced draft portion under positive static pressure; and a natural draft system is a venting system designed to remove flue or vent gases under nonpositive static vent pressure entirely by natural draft.
- 70. Naturally drafted equipment is only allowed if located in a space outside the pressure boundary, where the envelope assemblies separating
- it from conditioned space are insulated and air-sealed. 71. Where water heater efficiency is rated in Uniform Energy Factor (UEF) rather than Energy Factor (EF), the EF may be calculated from the Uniform Energy Factor (UEF) using the RESNET EF Calculator 2017. The calculated EF must meet the efficiency levels specified in the ENERGY STAR Multifamily Reference Design.
- 72. In accordance with Section 7.4.3 of ASHRAE 90.1-2016, the following in-unit DHW piping requires insulation:
 - a. Recirculating system piping, including the supply and return piping of a circulating tank type water heater.
 - b. The first 8 feet of outlet piping of a constant-temperature nonrecirculating storage system. c. The first 8 feet of branch piping connecting to recirculated, heat-traced, or impedance heated piping.
 - d. The inlet piping between the storage tank and a heat trap in a nonrecirculating storage system.
 - e. Piping that is externally heated (such as heat trace or impedance heating).
- 73. To measure the delivery temperature, turn the hot water at a fixture completely on and place a digital thermometer in the stream of water. Observe the thermometer and when no additional rise in temperature occurs after 10 seconds, confirm this temperature does not exceed
- 74. Senior housing projects can use the space-by-space allowances for 'facilities for the visually impaired' in ASHRAE 90.1-2016 Appendix G Table G3.7 for spaces used primarily by building residents. For example, 1.15 W/SF lighting power allowance may be used for the corridors in the baseline. To qualify for the increased allowance, the project must be designed to comply with the light levels in ANSI / IES RP-28 and must provide housing for seniors and/or people with special visual needs. Prescriptive Path dwelling unit overall in-unit lighting power density is permitted to be ≤ 1.3 W/SF, using 1.65 W/SF where lighting is not installed.

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National Rater Field Checklist Footnotes

ENERGY STAR Multifamily New Construction Version 1 / 1.1 / 1.2 (Rev.01) 75. Lighting power density values from ASHRAE 90.1-2007 Section 9 for Space-by-Space Method for typical common spaces in multifamily

properties are shown in the table below. Projects following the Building Area method, the lighting power density is 0.7 W/ft². For spaces not shown, refer to ASHRAE 90.1-2007 Section 9.

ASHRAE Space Type	Lighting Power Densities (W/ft²)	ASHRAE Space Type	Lighting Power Densities (W/ft²)	ASHRAE Space Type	Lighting Power Densities (W/ft²)
Lobby / Elevator	1.3	Corridor / Transition	0.5	Office	1.1
Active Storage (e.g., trash chute / room, janitor closet)	0.8	Stairs - Active	0.6	Lounge / Recreation / Community Room / Computer Room	1.2
Inactive Storage (e.g., tenant storage)	0.3	Restroom	0.9	Electrical / Mechanical	1.5
Exercise Area / Room	0.9	Laundry Room	1.3	Workshop	1.9

- 76. This requirement applies to exterior lighting fixtures that are attached to the building, but does not apply to landscape or parking lot lighting
- 77. For Prescriptive Path dwelling units, ENERGY STAR certified fixtures or light bulbs are required; however, the Rater is only responsible for verifying that the installed lighting meets the Tier I or Tier II definition specified in ANSI / RESNET / ICC Std. 301. For locations outside the dwelling unit, as an alternative to ENERGY STAR certified fixtures or light bulbs, lighting that meets the Tier I or Tier II definition specified in ANSI / RESNET / ICC Std.301 is permitted.
- 78. Where an appliance type is not eligible for ENERGY STAR certification, (e.g., commercial dryers) the appliance is exempt from this requirement. Where a bathroom faucet or aerator is not eligible for WaterSense certification, (e.g., public use lavatory faucets) the fixture is exempt from this requirement.
- 79. Strategies include: an agreement with the utility companies to provide the aggregated building-level data, in a spreadsheet format or directly through Portfolio Manager; OR evidence that securing signed utility data release forms will be a mandatory component of all lease agreements; OR installation of a building-level energy monitor, data acquisition system, or utility-owned energy meter. If an energy monitor is installed, the builder shall provide the building operator with the manufacturer's documentation and operations manual. EPA recommends, but does not require, that one of these strategies also be implemented in buildings 25,000-49,999 ft².

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National Rater Field Checklist Footnotes

ENERGY STAR Multifamily New Construction Version 1 / 1.1 / 1.2 (Rev.01) Exhibit X – Prescriptive Minimum Heating and Cooling Equipment Efficiencies **Equipment Type** Minimum Efficiency **ENERGY STAR certified** Room AC (window, through-wall, ductless mini-splits) Air conditioners, air cooled (<13 KBtu/h) 13 SEER Air conditioners, air cooled (≥13 and <65 KBtu/h) See Reference Design Air conditioners, air cooled (≥65 and <240 KBtu/h) 11.5 EER/12.0 IEER 10.0 EER/10.5 IEER Air conditioners, air cooled (≥240 and < 760 KBtu/h) Electric resistance space heating Not permitted in any dwelling unit using the Prescriptive Path Electric resistance heating specified in common spaces has a total heating capacity ≤ 12 kBtu/h (3.5 kW) per enclosed space and has automatic thermostatic controls Warm-Air Furnace (<225 KBtu/h, common spaces) 78% AFUE or 80% Et Warm-Air Furnace (<225 KBtu/h, dwelling units) See Reference Design Warm-Air Furnace (≥225 KBtu/h) 80% Et (gas) or 81% Et (oil) Packaged Terminal Air Conditioner (PTAC) 13.8 - (0.300 X Cap/1000) EER Packaged Terminal Heat Pump (PTHP) Cooling: 14.0- (0.3 X Cap/1000) EER Heating: 3.7- (0.052 X Cap/1000) COP Air cooled heat pump (≥13 and <65 KBtu/h) See Reference Design Cooling: 11.1 EER/11.6 IEER Air cooled heat pump (≥65 and <240 KBtu/h) Heating: 3.3 COP (@47°F DB) Air cooled heat pump (≥240 KBtu/h) Cooling: 9.6 EER/9.6 IEER Heating: 3.2 COP (@47°F DB) Water-source heat pump (<135 KBtu/h) Cooling: 14.0 EER(86°F entering water) Heating: 4.2 COP(68°F entering water) Boilers, hot water (<300,000 Btu/h) See Reference Design 86% E_t (89% E_t if using heat pumps) Boilers, hot water (≥300,000 Btu/h) See Tables 6.8.1I and 6.8.1J of ASHRAE 90.1-2010 VRF Air Conditioners and Heat Pumps 10.0 EER / 12.5 IPLV Air-cooled chillers with or without condenser Water-cooled chiller, positive displacement (<75 tons) 0.780 kW/ton (Full load) / 0.630 kW/ton (IPLV) Water-cooled chiller, positive displacement (75-150 tons) 0.775 kW/ton (Full load) / 0.615 kW/ton (IPLV) Water-cooled chiller, positive displacement (150-300tons) 0.680 kW/ton (Full load) / 0.580 kW/ton (IPLV) 0.620 kW/ton (Full load) / 0.540 kW/ton (IPLV) Water-cooled chiller, positive displacement (>300 tons) Water-cooled, centrifugal (<300 tons) 0.634 kW/ton (Full load) / 0.596 kW/ton (IPLV) Water-cooled, centrifugal (≥300 and <600 tons) 0.576 kW/ton (Full load) / 0.549 kW/ton (IPLV) Water-cooled, centrifugal (≥600 tons) 0.570 kW/ton (Full load) / 0.539 kW/ton (IPLV) 0.6 COP Air-cooled absorption single effect chiller Water-cooled absorption single effect chiller 0.7 COP Absorption double effect indirect-fired chiller 1.0 COP (Full load) / 1.05 COP (IPLV) Absorption double effect direct-fired chiller 1.0 COP (Full load) / 1.00 COP (IPLV) Open-loop propeller or axial fan cooling towers* >40 gpm/hp (@95°F entering water, 85°F leaving water, 75°F wb entering air) Closed-loop propeller or axial fan cooling towers* >15 gpm/hp (@102°F entering water, 90°F leaving water, 75°F wb entering air) Open-loop centrifugal fan cooling towers* >22 gpm/hp (@95°F entering water, 85°F leaving water, 75°F wb entering air) Closed-loop centrifugal fan cooling towers* >8 gpm/hp (@102°F entering water, 90°F leaving water, 75°F wb entering air)

Cap means the rated capacity of the product in Btu/h. If < 7,000 Btu/h, use 7,000; if > 15,000, use 15,000 in calculation.

*Cooling tower fan motors must be equipped with VFD controlled by a temperature sensor on the condenser water supply pipe.

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EGC SPECIFICATIONS

KURT PLATTE 10833 EXP DATE 12.31.2023 2023.04.28 - BID/PERMIT

MR, AM

CO, JK, MR, MR, RK, RO, SO, TB Drawn by:

80

GENERAL STRUCTURAL NOTES

COPIES OF PUBLICATIONS REFERENCED IN THESE GENERAL STRUCTURAL NOTES ARE AVAILABLE FOR REVIEW AT ADVANTAGE GROUP ENGINEERS, INC. CONTRACTORS UNFAMILIAR WITH THESE PUBLICATIONS MUST REVIEW THEM PRIOR TO CONSTRUCTION.

GOVERNING CODE

OHIO BUILDING CODE – 2017, BASED ON 2015 IBC

CLASSIFICATION OF THE BUILDING STRUCTURE: RISK CATEGORY II, TABLE 1604.5

<u>DESIGN LOADS</u>

- 1. ROOF LOAD:
- A. MINIMUM LIVE LOAD OR SNOW LOAD: 20 PSF* B. DEAD LOAD = 20 PSF IN ADDITION TO STRUCTURE SELF WEIGHT

*MINIMUM LIVE / SNOW LOAD GOVERNED BY MINIMUM SNOW LOAD, $P_m = I_s * P_g$

2. SNOW LOAD:

- A. GROUND SNOW LOAD, $P_g = 20$ PSF.
- B. FLAT ROOF SNOW LOAD, Pf = 14 PSF MODIFIED BY APPLICABLE
- BUILDING COEFFICIENTS.
- C. MINIMUM ROOF SNOW LOAD, $P_m = 20 \text{ PSF}$.
- D. SNOW LOAD IMPORTANCE FACTOR, $I_s = 1.0$
- SNOW EXPOSURE FACTOR, C_e = 1.0 F. THERMAL FACTOR, $C_t = 1.0$
- G. COORDINATE ROOF FRAMING WITH FINAL SELECTION OF ROOF SUPPORTED MECHANICAL EQUIPMENT AND ASSOCIATED OPENINGS. ITEMS TO BE COORDINATED INCLUDE SIZE, LOCATION, TOTAL WEIGHT, WEIGHT DISTRIBUTION, AND SUPPORT FRAME REQUIREMENTS.

3. FLOOR LOAD:

- A. LIVE LOAD: 100 PSF
- B. LIVE LOAD = 40 PSF AT RESIDENTIAL
- C. DEAD LOAD ALLOWANCE: 20 PSF IN ADDITION TO STRUCTURE SELF

4. WIND LOAD:

- A. MAIN WIND FORCE RESISTING SYSTEM: 115 MPH PER ASCE 7-10 (3-SECOND GUST - LOAD AND RESISTANCE FACTOR DESIGN).
- B. WIND EXPOSURE: B C. BASIC WIND VELOCITY PRESSURE, q_h= 19.21 PSF (LRFD), 11.526 PSF
- D. INTERNAL GUST PRESSURE COEFFICIENT, GCp = 0.18 (ENCLOSED BUILDING).

5. SPECIAL LOADS:

- A. INTERIOR FINISH: 5 PSF HORIZONTAL LOAD.
- B. HANDRAILS: 200 POUND CONCENTRATED LOAD AT ANY POINT, IN ANY DIRECTION, OR 50 PLF UNIFORM LOAD IN ANY DIRECTION.
- a. TOP RAIL: 200 POUNDS CONCENTRATED AT ANY POINT IN ANY DIRECTION, OR 50 PLF UNIFORM LOAD IN ANY DIRECTION. b. IN-FILL AREAS: 50 POUNDS APPLIED OVER A 1 SQUARE FOOT AREA.

SPECIAL INSPECTIONS

PER THE REQUIREMENTS OF CHAPTER 17 SECTION 1704.1 OF THE REFERENCED BUILDING CODE, A SPECIAL INSPECTION IS REQUIRED FOR THE PROPOSED BUILDING CONSTRUCTION. SPECIAL INSPECTION INVOLVES THE VERIFICATION OF COMPLIANCE OF MATERIALS, INSTALLATION, FABRICATION, ERECTION AND OR PLACEMENT OF COMPONENTS WITH THE OFFICIAL SET OF CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. SPECIAL INSPECTION IS PART OF THE PERMIT APPLICATION PROCESS FUNDED BY THE OWNER OR THE OWNER'S AGENT.

A STATEMENT OF SPECIAL INSPECTION LISTING THE REQUIREMENTS ALONG WITH A SCHEDULE OF TESTING, SUBMITTAL REVIEWS, AND FIELD OBSERVATION REQUIREMENTS HAS BEEN PREPARED BY THE STRUCTURAL ENGINEER OF RECORD IN ACCORDANCE WITH SECTION 106.1 OF THE BUILDING CODE. THIS STATEMENT INCLUDES A COMPLETE LIST OF MATERIAL AND ACTIVITY REQUIRING INSPECTION. IT IS THE RESPONSIBILITY OF ALL PARTIES TO BECOME FAMILIAR WITH THIS REQUIREMENT AND UNDERSTAND THE GUIDELINES AND REQUIREMENTS OF EACH PARTY INVOLVED WITH THE CONSTRUCTION. A COPY OF THE STATEMENT OF SPECIAL INSPECTION IS AVAILABLE UPON REQUEST. THE SPECIAL INSPECTOR COORDINATOR SHALL COORDINATE WITH THE OWNER. CONTRACTOR AND THE DESIGN PROFESSIONALS AND SCHEDULE THE INSPECTIONS ACCORDINGLY.

MATERIALS UTILIZED BUT NOT LISTED IN THE STATEMENT OF SPECIAL INSPECTOR ARE EITHER CONSIDERED WORK OF MINOR NATURE OR ITEMS THAT ARE ASSUMED WILL BE INSPECTED BY THE BUILDING INSPECTOR. SPECIAL INSPECTIONS CAN BE ADDED TO THIS PROJECT AT THE REQUEST OF THE BUILDING DEPARTMENT. BUILDING DEPARTMENT, PLEASE IDENTIFY SPECIFIC MATERIALS THAT WILL REQUIRE SPECIAL INSPECTIONS.

SUBSTITUTIONS, SUBMITTALS, AND RFI'S

- 1. CONTRACTOR SHALL SUBMIT ALL SUBSTITUTIONS FOR APPROVAL PRIOR TO CONSTRUCTION WITH THE FOLLOWING INFORMATION:
- A. THE SCOPE, EXTENT, AND ALL LOCATIONS AFFECTED BY THE PROPOSED SUBSTITUTION.

D. COST SAVINGS AND/OR IMPACT ON THE SCHEDULE

- B. SPECIFIC DRAWING OR SPECIFICATION REFERENCES FOR THE ORIGINAL PRODUCT OR SYSTEM SPECIFIED. C. THE REASON FOR THE PROPOSED CHANGE.
- IMPACT ON ANY GUARANTEES OR WARRANTIES ASSOCIATED WITH THE PRODUCT OR SYSTEM.
- F. COORDINATION REQUIRED WITH OTHER TRADES OR ADJACENT MATERIALS.
- G. ANY AND ALL DEVIATIONS FROM THE SPECIFIED REQUIREMENTS.
- 2. SHOP DRAWING SUBMITTALS SHALL BE SUBMITTED BY THE GENERAL CONTRACTOR IN A TIMELY MANNER TO PROVIDE AN ADEQUATE AMOUNT OF TIME FOR REVIEW.
- A. ALL SUBMITTALS MUST BE REVIEWED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTING FOR REVIEW. ANY SHOP DRAWINGS RECEIVED DO NOT BEAR THE STAMP OF THE GENERAL CONTRACTOR AS WELL AS CLEAR EVIDENCE THAT THE SUBMITTAL HAS BEEN REVIEWED WILL BE REJECTED WITHOUT REVIEW.
- B. REVIEW BY STRUCTURAL ENGINEER OF RECORD WILL BE FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS AND CONFORMANCE WITH THE DESIGN CONCEPT. THIS REVIEW DOES NOT IN ANYWAY RELIEVE THE CONTRACTOR AND/OR THE CONTRACTOR'S SUBCONTRACTORS FROM RESPONSIBILITY FOR ERRORS OR DEVIATIONS FROM THE CONTRACT REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS, PROPER FIT, QUALITIES OF THE MATERIALS, AND COORDINATION WITH OTHER TRADES AND SUPPLIERS.
- C. IF CHANGES ARE MADE TO A PREVIOUSLY REVIEWED SUBMITTAL, DENOTE ALL REVISED AREAS WITH REVISION CLOUD AND TAGS.

D. STRUCTURAL SUBMITTAL REQUIREMENTS:

Submittal/Shop Drawing	Submittal/Shop Drawing Submittal		PE/SE Seal & Signature
Concrete Mix – Conforming to ACI 318	For Review	N/a	N/a
Structural Steel	Structural Steel For Review		N/a
Miscellaneous Steel	For Record	Required	Required

- For Review denotes the contractor must submit to the design team for review. The contractor shall not fabricate or install until all design team comments have been resolved in writing.

- For Record denotes the contractor must submit to the design team for record. The contractor's engineer is responsible for all loading and coordination of loads to be resisted by the building's structural elements. Any load resisted by the building's structural elements must be approved by the EOR. N/a denotes not applicable.

- 3. REQUESTS FOR INFORMATION (RFI'S) SHALL BE SUBMITTED IN A TIMELY MANNER WHEN INFORMATION IS MISSING FROM THE CONSTRUCTION DOCUMENTS, INFORMATION IS CONFLICTING WITHIN THE CONSTRUCTION DOCUMENTS, OR IS AMBIGUOUS.
 - A. THE CONTRACTOR MUST USE DUE DILIGENCE IN ATTEMPTING TO FIND ANY ANSWER PRIOR TO SUBMITTING AN RFI.
 - B. IF THE INFORMATION REQUESTED IN AN RFI IS APPARENT FROM FIELD OBSERVATION, IS CONTAINED IN THE CONSTRUCTION DOCUMENTS, OR IS REASONABLY INFERABLE FROM THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER FOR ALL REASONABLE COSTS CHARGED RELATED TO ADDITIONAL SERVICES INCURRED DUE TO ANSWERING THE RFI.

CONSTRUCTION AND SAFETY

- 1. THE CONTRACTOR SHALL BRACE ENTIRE STRUCTURE AS REQUIRED TO MAINTAIN STABILITY UNTIL COMPLETE AND FUNCTIONING AS THE DESIGNED UNIT.
- 2. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY THE CONTRACTOR.
- 3. THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. WHEN ON SITE, THE ENGINEER IS RESPONSIBLE FOR HIS OWN SAFETY BUT HAS NO RESPONSIBILITY FOR THE SAFETY OF OTHER PERSONNEL OR SAFETY CONDITIONS AT THE SITE.
- 4. THE CONTRACTOR SHALL ONLY USE STRUCTURAL PLANS ISSUED AS "FOR CONSTRUCTION" OR ISSUES THEREAFTER. PRIOR ISSUES SHALL ONLY BE USED FOR PERMITTING OR BIDDING PURPOSES.
- 5. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. SHOULD ANY DISCREPANCY BE FOUND, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY OF THE CONDITION.
- 6. THE CONTRACTOR SHALL BRACE ENTIRE STRUCTURE AS REQUIRED DURING DEMOLITION AND CONSTRUCTION TO MAINTAIN STABILITY UNTIL THE STRUCTURE IS COMPLETE AND FUNCTIONING AS THE DESIGNED UNIT.
- 7. THE CONTRACTOR SHALL VERIFY ALL INFORMATION IN THESE DRAWINGS AND SHALL REPORT ANY ERRORS, OMISSIONS, OR DISCREPANCIES TO THE OWNER AND ENGINEER BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DEPARTURES FROM THESE PLANS
- 8. THE CONTRACTOR SHALL NOT REMOVE ANY ELEMENTS WHICH MAY CAUSE THE STRUCTURE TO BECOME UNSTABLE. OR THAT WILL POSE A RISK TO PERSONS OR PROPERTY. EVEN IF INDICATED IN PLANS. IF ANY ELEMENTS BECOME UNSTABLE, CONTRACTOR IS TO STABILIZE AND SHALL INFORM THE ENGINEER/OWNER IMMEDIATELY.
- 9. IT IS UP TO THE CONTRACTOR TO CONTINUALLY EVALUATE THE STRUCTURAL STABILITY OF THE BUILDING AND THE INTEGRITY OF ELEMENTS BOTH STRUCTURAL AND NON-STRUCTURAL THAT ARE SHOWN TO REMAIN. IF THE CONTRACTOR DETERMINES THAT SOME OF THESE ELEMENTS SHOULD BE REMOVED, HE/SHE MUST FIRST RECEIVE PERMISSION FROM THE ENGINEER/ OWNER, OR MAY BE FINANCIALLY RESPONSIBLE FOR THE REPLACEMENT OF THESE ELEMENTS.

MISCELLANEOUS STRUCTURAL NOTES

- 1. THESE STRUCTURAL DRAWINGS DEPICT A STRUCTURAL SYSTEM AND THE MAJOR COMPONENTS OF THAT SYSTEM. MINOR ITEMS, INCLUDING BUT NOT LIMITED TO, POURSTOPS, DECK SUPPORT ANGLES, FRAMES AT FLOOR AND ROOF DECK OPENINGS, CFS AT ARCHITECTURAL FEATURES, ETC. SHALL BE SUPPLIED BY THE CONTRACTOR AS NEEDED TO PROVIDE A COMPLETE SYSTEM.
- 2. WHERE DETAILS ARE CALLED FOR IN ONE AREA OF THE BUILDING, THEY SHALL BE DUPLICATED AT SIMILAR CONDITIONS UNLESS NOTED OTHERWISE.
- 3. STRUCTURAL AND ARCHITECTURAL PLANS SHOW DIMENSIONS AND **ELEVATIONS TO SIGNIFICANT WORKING POINTS. CONTRACTORS** DETAILERS AND SUPPLIERS ARE RESPONSIBLE FOR THE DETERMINATION OF ALL DIMENSIONS, PITCHES, ELEVATIONS, ETC. BEYOND THOSE NOTED AS NECESSARY TO THOROUGHLY DETAIL/FABRICATE THEIR WORK. CONTACT ARCHITECT WITH ANY DISCREPANCIES FOUND.

FOUNDATIONS

- 1. SOIL CONDITIONS:
- A. PER THE CLIENT'S REQUEST, THE FOUNDATION DESIGN AND GENERAL FOUNDATION NOTES ARE BASED ON THE ASSUMPTION OF FAVORABLE SOIL CONDITIONS.
- 2. THE BOTTOM OF FOUNDATION ELEVATION INDICATED ARE FOR BIDDING PURPOSES AND MAY BE LOWERED TO SUIT SUB-SURFACE SOIL CONDITION. BEARING STRATA SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE. PROVIDE ENGINEERED FILL OR FLOWABLE FILL CONCRETE (500 PSI) UNDER FOUNDATIONS AT SOFT SPOTS AND FOR EXTENDING EXCAVATION TO ADEQUATE BEARING MATERIAL. INSTALL FOUNDATIONS AT DESIGNED ELEVATIONS.
- 3. ALL FOOTINGS SHALL BEAR ON LEVEL (WITHIN 1 IN 12) UNDISTURBED SOIL OR APPROVED ENGINEERED FILL. FOUNDATIONS HAVE BEEN DESIGNED FOR A MAXIMUM SOIL BEARING PRESSURE OF 1500 PSF BELOW STRIP FOOTINGS AND 1500 PSF BELOW ISOLATED COLUMN FOOTINGS.
- 4. CONTRACTOR SHALL CONTACT UTILITY COMPANIES FOR LOCATING UNDERGROUND SERVICES AND IS RESPONSIBLE FOR THEIR PROTECTION AND SUPPORT.

5. COMPACTION:

- A. ALL FILL MATERIALS SHALL BE APPROVED BY A GEOTECHNICAL
- B. ENGINEERED FILL BENEATH FOOTINGS: MINIMUM COMPACTION 98% STANDARD PROCTOR DENSITY AT THE OPTIMUM MOISTURE CONTENT.
- 6. FINISHED GRADE SHALL SLOPE AWAY FROM THE PERIMETER FOUNDATION.

CONCRETE

- 1. CONCRETE WORK AND TESTING SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", EXCEPT AS MODIFIED BY THE SUPPLEMENTAL REQUIREMENTS BELOW. REPORTS FROM TESTS REQUIRED BY SECTION 1.6 OF ACI 301 SHALL BE SUBMITTED TO STRUCTURAL ENGINEER, ARCHITECT, OWNER, CONTRACTOR, CONCRETE SUPPLIER, AND BUILDING OFFICIAL
- CONCRETE WORK IN COLD WEATHER SHALL CONFORM TO ALL REQUIREMENTS OF ACI 306.1 "STANDARD SPECIFICATION FOR COLD WEATHER CONCRETING" AND ACI 306R "COLD WEATHER CONCRETING".
- 3. CONCRETE WORK IN HOT WEATHER SHALL CONFORM TO ALL REQUIREMENTS OF ACI 305R "HOT WEATHER CONCRETING". THE AIR TEMPERATURE, RELATIVE HUMIDITY, CONCRETE TEMPERATURE, AND WIND VELOCITY SHALL BE ENTERED INTO THE NOMOGRAPH OF THIS REFERENCE TO DETERMINE IF PRECAUTIONS AGAINST PLASTIC SHRINKAGE ARE
- 4. CONCRETE MIX DESIGNS SHALL BE SUBMITTED FOR EACH TYPE OF CONCRETE TO THE STRUCTURAL ENGINEER FOR APPROVAL IN ACCORDANCE WITH ACI 301 SECTION 4.2.3.4 FIELD TEST DATA OR TRIAL MIXTURES.
- 5. SUBMIT SHOP DRAWINGS OF REINFORCING STEEL
- 6. MATERIALS (ALSO SEE CONCRETE MIX SCHEDULE):
- A. REINFORCING STEEL: ASTM A615 OR ASTM 996 (AXLE ONLY) 60 KSI YIELD DEFORMED BARS AND ASTM A1064 MESH, FLAT SHEETS ONLY.
- B. FLY ASH: ASTM C618, TYPE F OR C. FLY ASH-TO-TOTAL CEMENTITIOUS RATIO SHALL NOT EXCEED 25% MAXIMUM C. GROUND GRANULATED BLAST FURNACE SLAG: ASTM C989. TOTAL GROUND GRANULATED BLAST FURNACE SLAG-TO-TOTAL
- CEMENTITIOUS RATIO SHALL NOT EXCEED 50% MAXIMUM. D. HIGH RANGE WATER REDUCER (HRWR) ADMIXTURE: ASTM C494 E. CHLORIDE CONTENT OF CONCRETE: LIMIT TOTAL CHLORIDE ION CONTENT TO AMOUNT INDICATED IN TABLE 4.2.2.6 OF ACI 318. ADMIXTURES CONTAINING CHLORIDE ARE NOT PERMITTED IN REINFORCED CONCRETE OR CONCRETE CONTAINING METALS.

7. CONCRETE MIX SCHEDULE:

Application	f' _c @ 28 days (psi)	Air Content ¹	Max w/c ratio ²	Max Agg. Size ¹ (in)	F Class	S Class	W Class	C Class
Footings	3000	N/a	0.55	3/4	F0	S0	W0	C0
Interior Floor Slab on Grade	4000	N/a	0.5	3/4	F0	S0	W0	C0
Exterior Flatwork (Plain Concrete)	4500	6% ± 1.5%	0.45	3/4	F3	S0	W1	C1

- SLUMP SHALL BE MEASURED PRIOR TO THE ADDITION OF HRWR.
- 9. LAP SPLICE REINFORCING BARS 48 BAR DIAMETERS UNLESS NOTED
- 10. BAR CLEARANCES BETWEEN ADJACENT BARS AND FORMWORK SHALL BE AS NOTED ON THE DRAWINGS OR A MINIMUM AS PER ACI REQUIREMENTS.

EXPANSION AND EPOXY ADHESIVE ANCHORS

- EXPANSION ANCHORS:
- A. EXPANSION ANCHORS SHALL BE MANUFACTURED BY THE HILTI COMPANY AND SHALL BE THE TYPE, SIZE, AND EMBEDMENT INDICATED ON THE DRAWINGS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SUBSTITUTES MAY BE CONSIDERED; SUBMIT MANUFACTURER'S DATA PRIOR TO INSTALLATION.
- 2. EPOXY ADHESIVE ANCHORS:
- B. EPOXY ADHESIVE SHALL BE MANUFACTURED BY THE HILTI COMPANY AND SHALL BE THE TYPE, SIZE, AND EMBEDMENT INDICATED ON THE DRAWINGS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SUBSTITUTES MAY BE CONSIDERED; SUBMIT MANUFACTURER'S DATA PRIOR TO INSTALLATION.
- A. THREADED RODS SHALL BE ASTM A36. SIZES AND EMBEDMENT AS INDICATED ON THE DRAWINGS.
- B. CONDUCT JOB-SITE TRAINING OF ALL CONTRACTOR'S PERSONNEL INSTALLING THIS PRODUCT FOR SAFE AND PROPER INSTALLATION, HANDLING, AND STORAGE OF THE EPOXY SYSTEM.

MASONRY WALL REPAIR

- 1. EXTERIOR MASONRY AND STONE IS TO BE REPAIRED, REPLACED, AND CLEANED AS NEEDED. CONTRACTOR SHALL PERFORM AN OBSERVATION OF ALL WALLS AND EXISTING LINTELS TO DETERMINE DAMAGED AREAS THAT REQUIRE REPAIR.
- 2. REPAIR DAMAGED JOINTS IN MASONRY WHERE MORTAR IS SOFT, DAMAGED, OR MISSING. CUT OUT JOINTS TO A DEPTH OF 2X THE WIDTH OF THE JOINT OR UNTIL SOUND MORTAR. REMOVE DUST AND LOOSE MATERIAL BY HAND BRUSHING. MORTAR TO MATCH EXISTING IN COMPOSITION, COLOR, TOOLING, PROFILE AND HARDNESS.
- REPLACE MISSING, ERODED, SPALLED OR CRACKED MASONRY UNITS. CUT OUT UNITS, INCLUDING ENTIRE MORTAR JOINT AROUND MASONRY UNIT. REMOVE UNITS BY HAND USING CARE SO AS NOT TO DAMAGE ADJACENT MASONRY. TURN EXISTING BRICKS AROUND AND/OR USE SALVAGED BRICK IF POSSIBLE BUILD-IN NEW MASONRY AND JOINTS TO MATCH EXISTING. ALIGN WITH EXISTING JOINTS AND COURSING TRUE AND LEVEL, FACES PLUMB AND IN-LINE. INSTALL ANY ANCHORS, FLASHING, OR REINFORCEMENTS AS NECESSARY, ALL NEW WORK SHALL MATCH THAT OF THE SURROUNDING MASONRY.
- 4. REMOVE CRACKED, DAMAGED AND SEVERELY SPALLED STONE LINTELS AND SILLS WITH CARE IN A MANNER TO PREVENT DAMAGE TO ADJACENT REMAINING MATERIALS. BUILD-IN NEW LINTELS AND SILLS. ALIGN WITH EXISTING JOINTS AND COURSING TRUE AND LEVEL, FACES PLUMB AND IN-LINE. INSTALL ANY ANCHORAGES, FLASHINGS, OR REINFORCEMENTS AS NECESSARY. WHERE APPLICABLE, NEW LINTELS AND SILLS TO BE PRECAST CONCRETE TO MATCH EXISTING IN COLOR AND TEXTURE. THE CONTRACTOR SHALL PROVIDE SAMPLES FOR APPROVAL PRIOR TO ORDERING MATERIAL. ALL STONE REPLACEMENT WORK WILL BE DONE WITHOUT DAMAGE, TO MATCH THE EXISTING HISTORIC STONE AND MASONRY.

- 5. NEW MASONRY CONSTRUCTION FOR WALLS NEEDING TO BE ENTIRELY REBUILT SHALL BE CONSISTED OF AN EXTERIOR WYTHE OF SIMILAR BRICK MATERIAL OF THE ERA. COMPOSITE CONSTRUCTION WITH AN INNER 4" WYTHE OR 8" WYTHE OF CONCRETE MASONRY, TO MATCH EXISTING WALL WIDTH. INTER-CONNECT W/ 9 GAUGE LADDER TYPE JOINT REINFORCING (GALVANIZED) @ 8" O.C. GROUT ALL COLLAR JOINTS SOLID WITH NO VOIDS.
- SPIRA-LOK TIES ARE MANUFACTURED BY HOHMANN & BARNARD SHALL BE 8MM, 304 STAINLESS STEEL. INSTALL IN MORTAR JOINTS, LENGTH AS NEEDED SO END OF TIE WITH WITHIN 1" OF EXTERIOR AND INTERIOR FACE OF MASONRY. WHERE TIE IS INSTALLED INTO INTERIOR WOOD FRAMING, PENETRATE WOOD A MINIMUM OF 3". ALTERNATES WILL BE CONSIDERED UPON SUBMITTING MANUFACTURER INFORMATION.

MATERIALS:

- A. FRAMING LUMBER:
- a. 2x8 AND LARGER: NO.1 GRADE OR BETTER SOUTHERN PINE KILN
- b. 2x4: STUD GRADE OR BETTER SPRUCE PINE FIR KILN DRIED.
- c. 2x6: NO.2 GRADE OR BETTER SPRUCE PINE FIR KILN DRIED. d. ACQ-C (ALT CA-B OR SBX-DOT) PRESSURE TREAT PIECES IN CONTACT WITH FOUNDATION OR EXPOSED TO WEATHER.
- 2. SHEATHING AND SUBFLOORING:
- A. 48/24 APA RATED TONGUE AND GROOVE SUBFLOOR EXPOSURE 1. B. 32/16 APA RATED ROOF SHEATHING EXPOSURE 1.
- C. 24/16 APA RATED STRUCTURAL WALL SHEATHING EXPOSURE 1. D. ALL SHEATHING TO BE NAILED WITH 8d NAILS AT 6" ON CENTER AT PANEL EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE.
- E. ROOF AND WALL SHEATHING SHALL BE SPACED A MINIMUM 1/8" AT PANEL EDGES AND ENDS OF SHEETS. USE APPROPRIATE PLYWOOD CLIPS AS RECOMMENDED BY THE APA.
- F. ALL PLYWOOD SUBFLOORING SHALL BE GLUED AND NAILED.
- 3. NAIL SIZES AS CALLED OUT IN THE STRUCTURAL DRAWINGS AND FOR SIMPSON CONNECTORS ARE LISTED BELOW. NAIL GUN NAILS SHALL MEET DIAMETER AND LENGTH OF NAILS LISTED BELOW, OR ELSE NAILS SHALL BE DRIVEN WITH A HAMMER.
- A. 6d NAILS ARE 0.120"Ø x 1¾" LONG (MIN 3/8" HEAD)
- B. 8d NAILS ARE 0.131"Ø x 21/2" LONG
- C. 10d NAILS ARE 0.148"Ø x 3" LONG D. 16d NAILS ARE 0.162"Ø x 31/2" LONG
- 4. SIMPSON HANGERS:
- A. ALWAYS USE THE NAIL OR FASTENER AS SPECIFIED BY SIMPSON,
- INCLUDING THE CORRECT DIAMETER AND LENGTH. B. WHEN FASTENING TO A SINGLE PLY 11/2" OR 13/4" MEMBER, 11/2" FLANGE NAILS ARE ACCEPTABLE. USE FULL LENGTH NAILS FOR DIAGONAL NAILS OF DOUBLE SHEAR HANGERS.
- 5. ADHESIVE FOR PLYWOOD SUBFLOORING SHALL CONFORM TO PERFORMANCE SPECIFICATION AFG-01 DEVELOPED BY APA.
- UNLESS NOTED OTHERWISE, CONNECTORS SHALL BE MADE PER TABLE 2304.10.1, "RECOMMENDED FASTENING SCHEDULE", IN REFERENCED BUILDING CODE. STAPLES NOT PERMITTED FOR FASTENING APA RATED SHEATHING AND SUBFLOORING.
- 7. ALL PLYWOOD SUBFLOORING SHALL BE GLUED AND NAILED.
- 8. ALL CONNECTION HARDWARE SPECIFIED ON THE STRUCTURAL DRAWINGS SHALL BE MANUFACTURED BY THE SIMPSON STRONG-TIE COMPANY AND SHALL BE FASTENED AS SPECIFIED IN THE SIMPSON PRODUCT AND INSTRUCTION MANUAL.

STRUCTURAL STEEL

- 1. ALL DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO AISC SPECIFICATIONS FOR "DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS". AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", LATEST EDITION.
- 2. NO OPENING OR HOLE SHALL BE PLACED IN ANY STRUCTURAL MEMBER (OTHER THAT WHAT IS INDICATED ON THE DRAWINGS) UNLESS THE LOCATION HAS BEEN APPROVED IN WRITING BY THE STRUCTURAL
- 3. ALL FLOOR OR ROOF BEAMS SHALL BE FABRICATED WITH THE NATURAL CAMBER UP.
- 4. WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS D1.1).

MATERIALS:

6. PAINT AND PROTECTION:

- A. ROLLED WIDE FLANGE SHAPES UNLESS NOTED: ASTM A992 DUAL
- GRADE, $F_v = 50$ KSL B. ROLLED SHAPES AND PLATES UNLESS NOTED: ASTM A36.
- C. TUBULAR SHAPES: ASTM A500 GRADE C. D. PIPE SHAPES: ASTM A53, TYPES E OR S GRADE B.
- E. BOLTS: ASTM A325-N, 3/4" DIAMETER UNLESS NOTED F. ANCHOR RODS: ASTM F1554 GRADE 36 KSI MATERIAL FULLY THREADED RODS HAVING A NUT TACK WELDED IN PLACE ON BOTTOM. MINIMUM EMBEDMENT AS NOTED ON THE DRAWINGS
- G. FIELD WELDS: AWS E70XX, LOW HYDROGEN ELECTRODES. H. NON-SHRINK NON-METALLIC GROUT: CRD-C-621 AND ASTM C1107 FOR INTERIOR AND EXTERIOR APPLICATIONS.
- A. STRUCTURAL STEEL UNLESS NOTED: FABRICATOR'S STANDARD PRIME COAT. TOUCH UP AFTER ERECTION.
- B. MEMBERS TO BE ENCASED IN CONCRETE, MEMBERS TO RECEIVE SPRAY-ON FIREPROOFING AND THE TOP FLANGES OF BEAMS TO RECEIVE COMPOSITE SHEAR CONNECTORS SHALL HAVE NO PAINT. COORDINATE ALL FIREPROOFING REQUIREMENT WITH THE PROJECT SPECIFICATIONS AND ARCHITECTURAL DRAWINGS.
- C. PROVIDE MINIMUM 3" CONCRETE COVER FOR ALL STEEL BELOW D. LINTELS SUPPORTING EXTERIOR MASONRY WYTHES AND MEMBERS EXPOSED TO WEATHER IN FINISHED STRUCTURES: HOT DIP GALVANIZE PER ASTM A123 AFTER FABRICATION. COATING WEIGHT PER PARAGRAPH 5.1 OF ASTM A123 AND A153. FABRICATE ASSEMBLIES PER
- 26915, MULTIPLE COATS TO DRY FILM THICKNESS OF 8 MILS. 7. CONTRACTOR SHALL SUBMIT ERECTION AND SHOP DRAWINGS FOR REVIEW BY ENGINEER PRIOR TO FABRICATION. ANY DEVIATIONS FROM THE ORIGINAL DESIGN INTENT SHALL BE APPROVED PRIOR TO SUBMITTING ANY

SHOP SUBMITTALS. SUCH DRAWINGS WILL BE REJECTED.

STRUCTURAL INFORMATION NOTED IS BASED ON ASSUMPTIONS OF CONDITION OF EXISTING

FRAMING & FRAMING HIDDEN FROM VISUAL OBSERVATION. DETAILS OF PROPOSED FRAMING

MODIFICATION/REPAIRS ARE SUBJECT TO CHANGE ONCE DEMOLITION IS UNDERWAY

ORGANIC ZINC RICH PAINT COMPLYING WITH DOP-P-21035 OR MIL-P-

ASTM A143, A384, AND A385. TOUCH UP AFTER ERECTION WITH



advantage www.advantageSE.com

JENKINS

Design Team: KCJ / SJ

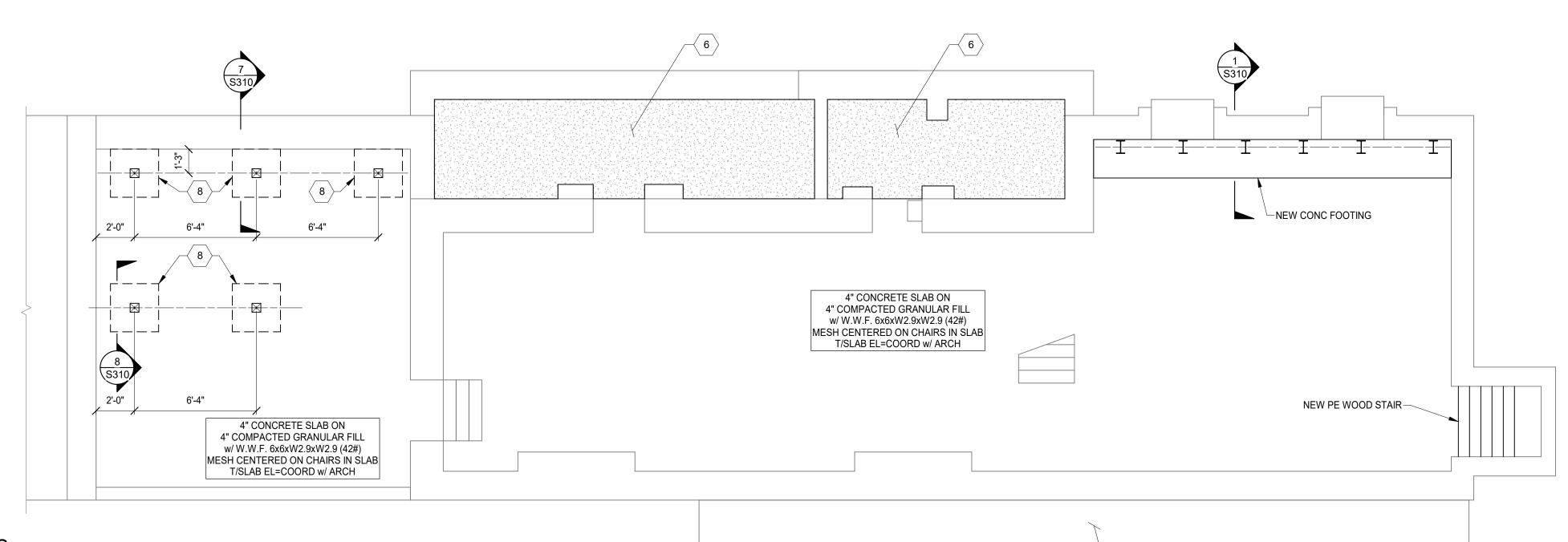
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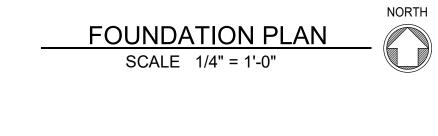


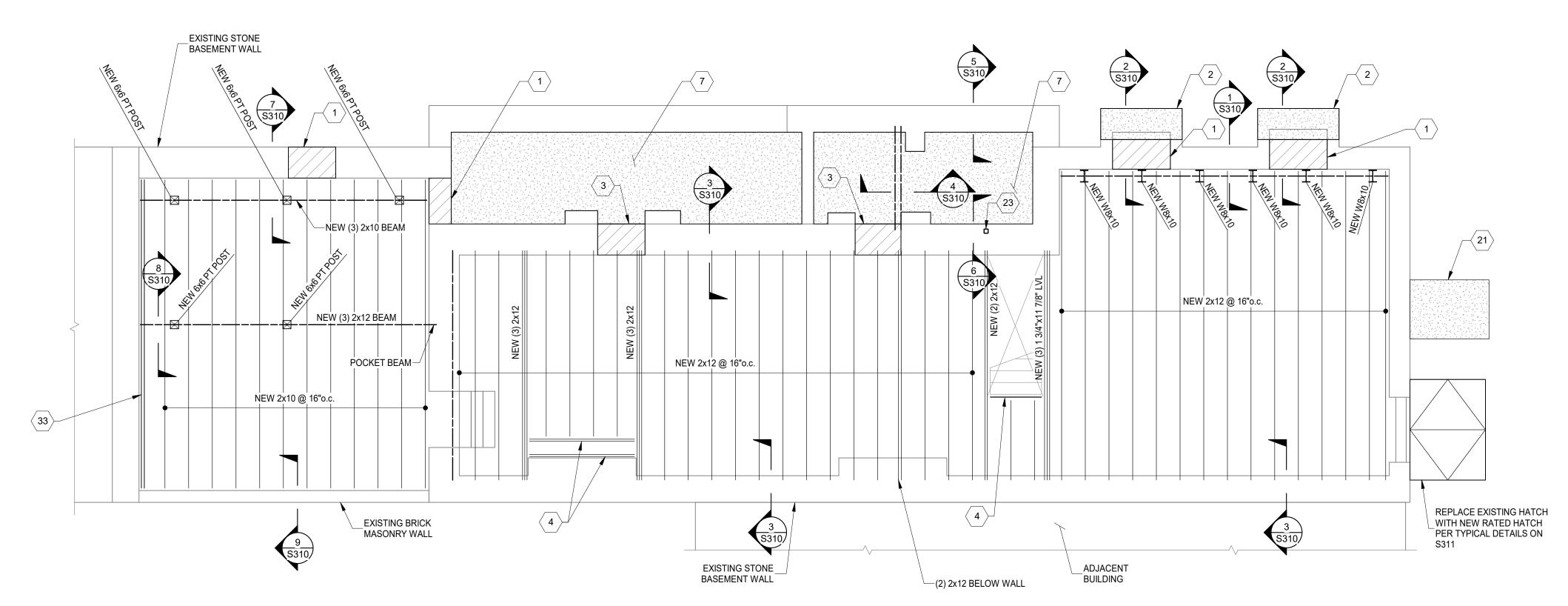
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BUILDING

PLAN NOTES:

- 1. COORDINATE ALL DIMENSIONS, DOOR AND WINDOW LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- 2. REMOVE DAMAGED OR SATURATED SHEATHING AND REPLACE WITH NEW APA RATED SHEATHING. REPLACE DAMAGED, SATURATED OR DETERIORATED JOISTS WITH NEW JOISTS OF THE SAME SIZE.
- 3. LUMBER AT 1ST FLOOR AND BASEMENT SHALL BE PRESSURE TREATED.
- 4. WOOD LINTELS AT OPENINGS IN MASONRY WALLS WHERE ROTTED SHALL BE REPLACED WITH A STEEL HSS4x4x3/8 (GALVANIZED) LINTEL AT EACH 4" WYTHE. ALTERNATIVELY USE A 4"x8" PRECAST CONCRETE LINTEL WITH #5 TOP AND BOTTOM EACH 4" WYTHE, OR AN L4x3-1/2x5/16" LINTEL LLV, EACH WYTHE.
- 5. SEE STRUCTURAL ELEVATION DRAWINGS FOR EXTERIOR BRICK REPAIR AND TUCKPOINTING.
- 6. REPAIR AND TUCKPOINT INTERIOR MASONRY PER THE GENERAL NOTES.
- 7. FIELD VERIFY ALL EXISTING CONDITIONS, NOTIFY ADVANTAGE GROUP ENGINEERS OF ANY DESCREPANCIES.
- 8. SWS = STRUCTURAL WOOD SCREW. ALLOWABLE SCREWS ARE 1/4" SIMPSON SDS, 1/4" SPAX POWERLAGS OR 1/4" FASTEN MASTER LEDGER LOK.
- 9. FASTEN SISTERS WITH 1/4"x3" SWS @ 24"o.c. STAGGERED UNLESS NOTED OTHERWISE.





1ST FLOOR FRAMING PLAN SCALE 1/4" = 1'-0"

PROJECT KEYNOTES:

- INFILL EX OPENING WITH SOLID CMU OR HOLLOW CMU, GROUTED SOLID, TO MATCH WALL THICKNESS ABOVE. GROUT/MORTAR TIGHT TO EX STONE FOUNDATION WALLS AND MASONRY ABOVE. REMOVE EX WOOD LINTELS, CUT EX JOISTS BACK, AND BEAR JOISTS
- REMOVE DEBRIS FROM EXTERIOR WINDOW WELL OR STAIR. FILL WITH 250 PSI CONTROLLED DENSITY FILL (CDF). TOP WITH 4" CONCRETE SIDEWALK SLAB. PROVIDE NEW 1' THICK x 2' WIDE CONCRETE FOOTING BEARING ON NATIVE SOIL. INFILL EX OPENING WITH SOLID CMU OR HOLLOW CMU, GROUTED SOLID, TO MATCH WALL
- MASONRY ABOVE. REMOVE EX WOOD LINTELS. \langle 4 \rangle (2) 2x12 HEADER w/ HUS210-2 HANGER EACH END AND 2x12 END JOIST WITH L70 EACH END.

THICKNESS ABOVE. GROUT/MORTAR TIGHT TO EX STONE FOUNDATION WALLS AND

- REPAIR MASONRY WALL.
- REMOVE LOOSE SOIL AT BASE AND FILL VOID WITH 250 PSI CDF.
- NEW 4" CONCRETE SLAB.
- NEW 1'-0" THICK x 2'-6"x2-'6" CONCRETE FOOTING.
- REMOVE EXISTING MASONRY WALL. PROVIDE NEW MASONRY WALL CONSISTING OF 4" BRICK AND 4" SOLID CMU, w/ HORIZONTAL REINFORCING AT 8" o.c. AT OPENINGS, PROVIDE (2) 4"x8" PRECAST LINTELS w/ #4 TOP AND BOTTOM, EXTERIOR LINTEL CAST STONE TO
- ADHESIVE ANCHOR #4x12" LONG REBAR INTO EXISTING BRICK AT 16" o.c. w/ HILTI HIT-HY270 ADHESIVE, 16" SPACING, 4" MIN EMBEDMENT.
- REMOVE EXISTING ROTTED OR DAMAGED LINTELS AND REPLACED PER TYPICAL LINTEL INFILL EXISTING OPENING WITH NEW SOLID CMU AT INNER WYTHES, 4" CMU FOR (2)
- WYTHE WALLS AND 8" CMU FOR (3) WYTHE WALLS. INFILL EXTERIOR WYTHE WITH EXTERIOR BRICK, APPEARANCE TO MATCH EXISTING. REMOVE INTERIOR WOOD LINTELS AND SILLS, CMU AND BRICK TO BE MORTARED TIGHT TO EXISTIGN MASONRY WALL (4) SIDES. REMOVE EXISTING WOOD JAMB BLOCKS AND TOOTH INFILL MASONRY INTO EXISTING MASONRY ALONG VERTICAL EDGES.
- REPAIR MASONRY JAMB. REMOVE ALL WOOD AND BROKEN MASONRY. REPLACE WITH (13) NEW MASONRY TO CREATE A SQUARE JAMB. TUCK POINT DETERIORATED MORTAR
- REMOVE EXISTING MASONRY HEARTH, REPLACE w/ NEW 2x JOISTS AT 16" o.c. MAX, DEPTH \langle 14 \rangle TO MATCH EXISTING. CONNECT TO EX BEAMS EACH END w/ SIMPSON L70 ANGLES OR
- PROVIDE END SISTER, BEARING ON MASONRY WALL, PER TYPICAL JOIST END SISTER
- NEW 2x12" SISTER, BEAR NORTH END ON MASONRY WALL. SOUTH END SHALL BE WITHIN 4" OF WALL w/ (4) ¼"x3-1/2" SWS AT SOUTH END. FASTEN ALONG LENGTH w/ (2) ¼"x3-1/2" SWS @ 24" o.c.
- NEW (2) 2x12 HEADER w/ HUS210-2 EACH END. HANG JOISTS TO HEADER WITH LUS210
- NEW 2x6 WALL w/ 2x6 STUDS AT 16" o.c. @ OPENINGS PROVIDE (2) 2x8 HEADER w/ (1) 4 18 BEARING STUD AND (2) FULL HEIGHT STUDS. PROVIDE APA RATED SHEATHING AT
- OUTSIDE FACE OF WALL. 2x4 STUD WALL w/ 2x4 STUDS AT 16" o.c. PROVIDE APA RATED SHEATING TO THE INSIDE
- \langle 20 \rangle NEW STAR PLATE AND WALL TIE, SEE TYPICAL DETAILS.
- REMOVE EXISTING DEPRESSED SIDEWALK SLAB AND INVESTIGATE SOIL BELOW. REMOVE LOOSE SOIL AND FILL WITH 250 PSI CDF. REPLACE SIDEWALK WITH NEW 4" CONCRETE SLAB.
- REMOVE EXISTING STEEL LINTEL. PROVIDE NEW (2) W8x13 LINTELS w/ 8" MIN BEARING
- 23 NEW HSS3x3x1/4" COLUMN.
- NEW 1 3/4"X11-7/8" LVL SISTER, BEAR EACH END. CONNECT SISTER w/ (6) 1/4"x3 1/4" SWS AT LOCATION, AND PER PLAN NOTES.
- REMOVE EXISTING DOUBLE AND PROVIDE NEW (2) 1 3/4"x11 7/8" LVL HEADER w/ (2) HHUS410 HANGER EACH END. HANG EXISTING JOISTS TO HEADER w/ LUS28R-18 HANGERS. RECONNECT EXISTING STRINGERS WITH ORIGINAL CONNECTION. PROVIDE
- 2x10 SISTERS IF NEEDED TO EXTEND EXISTING JOISTS. PROVIDE 2x10 SISTER AND ANCHOR SISTER AND JOIST TO WALL w/ 3/8" SLEEVE ANCHORS, 2" MIN EMBEDMENT, AT 32" o.c.
- EXISTING FIRE ESCAPE EVALUATION NOT IN SCOPE. EXISTING BRACKET THRU WALL TIES ARE CORRODED AND SHALL BE REPAIRED PRIOR INTERIOR FINISHES. HAVE FIRE ESCAPE
- EVALUATED AND REPAIRED PER CITY OF CINCINNATI FIRE ESCAPE INSPECTION REPORT REMOVE FLOOR FRAMING AND SHEATHING. PROVIDE NEW 1 3/4"x9 1/2" LVL @ 16" o.c. AND
- NEW APA RATED SHEATHING. NEW 1 3/4"x9 1/2" LVL SISTER, BEAR ON NORTH END, SOUTH END SHALL BE 4" MIN FROM
- REMOVE AND REPLACE SOFT/DETERIORATED INTERIOR WYTHE BRICK, TUCK POINT AS NEEDED. KEEP HEADER COURSES. WHERE HEADER COURSES ARE DAMAGED, PROVIDE

SPIRALOK TIES AT 8" o.c. HORIZONTAL SPACING, TOP AND BOTTOM OF HEADER COURSE.

- NEW 1 3/4"x7 1/4" LVL SISTER, BEAR ON SOUTH WALL, NORTH END SHALL BE 4" MIN FROM WALL.
- NEW 1 ¾"x7 ¼" LVL SISTER AT EX HEADER, HANG EACH END w/ ML26Z . CUT EX JOISTS
- NEW (2) 2x10 BEAM BELOW SHEAR WALL. FASTEN SHEAR WALL WITH (2) 0.148"x3.5" NAILS AT 16"o.c. PROVIDE (2) 2x4 STUDS EACH END AND STRAP TO BEAM WITH SIMPSON MSTI26. NEW (2) 1 3/4"x9 1/4" LVL HEADER. POCKET INTO MASONRY WALL AND PROVIDE (2) CRIPPLE STUDS AT WALL. CUT STUDS ABOVE AND NAIL TO TOP OF HEADER WITH (3)
- 0.131"x3" TOE NAILS. REMOVE EXISTING LANDING. PROVIDE NEW 1 3/4"x7 1/4" LVL JOISTS @ 12"o.c. WITH 35 SIMPSON ML28Z ANGLE OR HU7 HANGER. PROVIDE NEW (2) 1 3/4"X7 1/4" LVL HEADER, CONNECT STAIR STRINGERS TO HEADER WITH ML28Z ANGLES.
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 NEW W8x24 BEAM WITH 3 1/2" POCKET INTO BRICK.
- NEW (2) 2x12 HEADER HUNG TO WF BEAM WITH SIMPSON WP212-2 HANGER. HANG JOIST TO HEADER WITH WS210 HANGERS.
- NEW 1 3/4"x7 1/4" LVL SISTER. MITER AND BEAR ON WALL PLATE. CONNECT TO HIP BEAM WITH LSSJ28LZ.
- REPLACE EXISTING CHIMNEY 4 FT BELOW ROOF LINE. GROUT EXISTING FLUES SOLID 24" \langle 39 \rangle BELOW NEW MASONRY. INTERIOR WYTHES AND CMU GROUTED SOLID. PROVIDE HORIZONTAL REINFORCING @ 8"o.c. AND #5 VERTICAL AT ENDS.
- REMOVE EXISTING FLOOR. PROVIDE NEW 2x12 JOISTS, POCKET INTO EXISTING JOIST 40 POCKETS, 2" MIN BEARING. FIRE CUT JOISTS AS NEEDED WITH A MINIMUM DEPTH OF 5 1/2" REMAINING. PROVIDE NEW APA RATED SHEATHING.

STRUCTURAL INFORMATION NOTED IS BASED ON ASSUMPTIONS OF CONDITION OF EXISTING FRAMING & FRAMING HIDDEN FROM VISUAL OBSERVATION. DETAILS OF PROPOSED FRAMING MODIFICATION/REPAIRS ARE SUBJECT TO CHANGE ONCE DEMOLITION IS UNDERWAY

Design Team: KCJ / SJ

Date: 02/17/2023

Proj. No.:

22146.20 Drawing No.

OPENING COORD w/ ARCH advantage STRUCTURAL ENGINEERS 1527 Madison Road Cincinnati, OH 45206

513 396 8900 www.advantageSE.com

PROJECT KEYNOTES:

- THICKNESS ABOVE. GROUT/MORTAR TIGHT TO EX STONE FOUNDATION WALLS AND
- REMOVE DEBRIS FROM EXTERIOR WINDOW WELL OR STAIR. FILL WITH 250 PSI CONTROLLED DENSITY FILL (CDF). TOP WITH 4" CONCRETE SIDEWALK SLAB.
- PROVIDE NEW 1' THICK x 2' WIDE CONCRETE FOOTING BEARING ON NATIVE SOIL. INFILL EX OPENING WITH SOLID CMU OR HOLLOW CMU, GROUTED SOLID, TO MATCH WALL THICKNESS ABOVE. GROUT/MORTAR TIGHT TO EX STONE FOUNDATION WALLS AND

- REMOVE LOOSE SOIL AT BASE AND FILL VOID WITH 250 PSI CDF.
- NEW 4" CONCRETE SLAB.
- NEW 1'-0" THICK x 2'-6"x2-'6" CONCRETE FOOTING.
- ADHESIVE ANCHOR #4x12" LONG REBAR INTO EXISTING BRICK AT 16" o.c. w/ HILTI HIT-HY270 ADHESIVE, 16" SPACING, 4" MIN EMBEDMENT.
- REMOVE EXISTING ROTTED OR DAMAGED LINTELS AND REPLACED PER TYPICAL LINTEL
- INFILL EXISTING OPENING WITH NEW SOLID CMU AT INNER WYTHES, 4" CMU FOR (2) WYTHE WALLS AND 8" CMU FOR (3) WYTHE WALLS. INFILL EXTERIOR WYTHE WITH EXTERIOR BRICK, APPEARANCE TO MATCH EXISTING. REMOVE INTERIOR WOOD LINTELS AND SILLS, CMU AND BRICK TO BE MORTARED TIGHT TO EXISTIGN MASONRY WALL (4) SIDES. REMOVE EXISTING WOOD JAMB BLOCKS AND TOOTH INFILL MASONRY INTO EXISTING MASONRY ALONG VERTICAL EDGES.
- REPAIR MASONRY JAMB. REMOVE ALL WOOD AND BROKEN MASONRY. REPLACE WITH NEW MASONRY TO CREATE A SQUARE JAMB. TUCK POINT DETERIORATED MORTAR JOINTS.
- REMOVE EXISTING MASONRY HEARTH, REPLACE w/ NEW 2x JOISTS AT 16" o.c. MAX, DEPTH
- PROVIDE END SISTER, BEARING ON MASONRY WALL, PER TYPICAL JOIST END SISTER
- NEW 2x12" SISTER, BEAR NORTH END ON MASONRY WALL. SOUTH END SHALL BE WITHIN 4" OF WALL w/ (4) 1/4"x3-1/2" SWS AT SOUTH END. FASTEN ALONG LENGTH w/ (2) 1/4"x3-1/2" SWS @ 24" o.c.
- NEW (2) 2x12 HEADER w/ HUS210-2 EACH END. HANG JOISTS TO HEADER WITH LUS210
- 2x4 STUD WALL w/ 2x4 STUDS AT 16" o.c. PROVIDE APA RATED SHEATING TO THE INSIDE
- \langle 20 angle NEW STAR PLATE AND WALL TIE, SEE TYPICAL DETAILS.
- LOOSE SOIL AND FILL WITH 250 PSI CDF. REPLACE SIDEWALK WITH NEW 4" CONCRETE SLAB.
- ⟨ 23 ⟩ NEW HSS3x3x1/4" COLUMN.
- LOCATION, AND PER PLAN NOTES. REMOVE EXISTING DOUBLE AND PROVIDE NEW (2) 1 3/4"x11 7/8" LVL HEADER w/ (2)
- PROVIDE 2x10 SISTER AND ANCHOR SISTER AND JOIST TO WALL w/ 3/8" SLEEVE ANCHORS, 2" MIN EMBEDMENT, AT 32" o.c.
- EXISTING FIRE ESCAPE EVALUATION NOT IN SCOPE. EXISTING BRACKET THRU WALL TIES ARE CORRODED AND SHALL BE REPAIRED PRIOR INTERIOR FINISHES. HAVE FIRE ESCAPE
- REMOVE FLOOR FRAMING AND SHEATHING. PROVIDE NEW 1 3/4"x9 1/2" LVL @ 16" o.c. AND NEW APA RATED SHEATHING.
- NEW 1 ¾"x9 ½" LVL SISTER, BEAR ON NORTH END, SOUTH END SHALL BE 4" MIN FROM
- SPIRALOK TIES AT 8" o.c. HORIZONTAL SPACING, TOP AND BOTTOM OF HEADER COURSE. NEW 1 3/4"x7 1/4" LVL SISTER, BEAR ON SOUTH WALL, NORTH END SHALL BE 4" MIN FROM WALL

NEEDED. KEEP HEADER COURSES. WHERE HEADER COURSES ARE DAMAGED, PROVIDE

- AND HANG TO HEADER w/ LUS26R-18 HANGERS.
- AT 16"o.c. PROVIDE (2) 2x4 STUDS EACH END AND STRAP TO BEAM WITH SIMPSON MSTI26. NEW (2) 1 3/4"x9 1/4" LVL HEADER. POCKET INTO MASONRY WALL AND PROVIDE (2)
- REMOVE EXISTING LANDING. PROVIDE NEW 1 3/4"x7 1/4" LVL JOISTS @ 12"o.c. WITH 🔇 35 🔪 SIMPSON ML28Z ANGLE OR HU7 HANGER. PROVIDE NEW (2) 1 3/4"X7 1/4" LVL HEADER,
- ⟨ 36 ⟩ NEW W8x24 BEAM WITH 3 1/2" POCKET INTO BRICK.
- NEW (2) 2x12 HEADER HUNG TO WF BEAM WITH SIMPSON WP212-2 HANGER. HANG JOIST
- TO HEADER WITH WS210 HANGERS. NEW 1 3/4"x7 1/4" LVL SISTER. MITER AND BEAR ON WALL PLATE. CONNECT TO HIP BEAM
- REMOVE EXISTING FLOOR. PROVIDE NEW 2x12 JOISTS, POCKET INTO EXISTING JOIST POCKETS, 2" MIN BEARING. FIRE CUT JOISTS AS NEEDED WITH A MINIMUM DEPTH OF 5 1/2" REMAINING. PROVIDE NEW APA RATED SHEATHING.

- INFILL EX OPENING WITH SOLID CMU OR HOLLOW CMU, GROUTED SOLID, TO MATCH WALL MASONRY ABOVE. REMOVE EX WOOD LINTELS, CUT EX JOISTS BACK, AND BEAR JOISTS
- MASONRY ABOVE. REMOVE EX WOOD LINTELS.
- \langle 4 \rangle (2) 2x12 HEADER w/ HUS210-2 HANGER EACH END AND 2x12 END JOIST WITH L70 EACH END.
- REPAIR MASONRY WALL.

- REMOVE EXISTING MASONRY WALL. PROVIDE NEW MASONRY WALL CONSISTING OF 4" BRICK AND 4" SOLID CMU, w/ HORIZONTAL REINFORCING AT 8" o.c. AT OPENINGS, PROVIDE (2) 4"x8" PRECAST LINTELS w/ #4 TOP AND BOTTOM, EXTERIOR LINTEL CAST STONE TO

- √ 14

 → TO MATCH EXISTING. CONNECT TO EX BEAMS EACH END w/ SIMPSON L70 ANGLES OR

 → TO MATCH EXISTING. CONNECT TO EX BEAMS EACH END w/ SIMPSON L70 ANGLES OR

 → TO MATCH EXISTING. CONNECT TO EX BEAMS EACH END w/ SIMPSON L70 ANGLES OR

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 → TO MATCH EXISTING.

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- NEW 2x6 WALL w/ 2x6 STUDS AT 16" o.c. @ OPENINGS PROVIDE (2) 2x8 HEADER w/ (1) (18) BEARING STUD AND (2) FULL HEIGHT STUDS. PROVIDE APA RATED SHEATHING AT

- REMOVE EXISTING DEPRESSED SIDEWALK SLAB AND INVESTIGATE SOIL BELOW. REMOVE
- REMOVE EXISTING STEEL LINTEL. PROVIDE NEW (2) W8x13 LINTELS w/ 8" MIN BEARING
- NEW 1 3/4"X11-7/8" LVL SISTER, BEAR EACH END. CONNECT SISTER w/ (6) 1/4"x3 1/4" SWS AT
- HHUS410 HANGER EACH END. HANG EXISTING JOISTS TO HEADER w/ LUS28R-18 HANGERS. RECONNECT EXISTING STRINGERS WITH ORIGINAL CONNECTION. PROVIDE 2x10 SISTERS IF NEEDED TO EXTEND EXISTING JOISTS.
- EVALUATED AND REPAIRED PER CITY OF CINCINNATI FIRE ESCAPE INSPECTION REPORT
- REMOVE AND REPLACE SOFT/DETERIORATED INTERIOR WYTHE BRICK, TUCK POINT AS
- NEW 1 $\frac{3}{4}$ "x7 $\frac{1}{4}$ " LVL SISTER AT EX HEADER, HANG EACH END w/ ML26Z . CUT EX JOISTS NEW (2) 2x10 BEAM BELOW SHEAR WALL. FASTEN SHEAR WALL WITH (2) 0.148"x3.5" NAILS
- CRIPPLE STUDS AT WALL. CUT STUDS ABOVE AND NAIL TO TOP OF HEADER WITH (3)
- CONNECT STAIR STRINGERS TO HEADER WITH ML28Z ANGLES.

- REPLACE EXISTING CHIMNEY 4 FT BELOW ROOF LINE. GROUT EXISTING FLUES SOLID 24" BELOW NEW MASONRY. INTERIOR WYTHES AND CMU GROUTED SOLID. PROVIDE HORIZONTAL REINFORCING @ 8"o.c. AND #5 VERTICAL AT ENDS.

3RD FLOOR FRAMING PLAN

REMOVE TRIM

INSPECT INTERIOR LINTELS

30

NEW 2x8's @ 16"o.c.-

PLAN NOTES:

 \langle 15 angle

1. COORDINATE ALL DIMENSIONS, DOOR AND WINDOW LOCATIONS WITH ARCHITECTURAL DRAWINGS.

5. SEE STRUCTURAL ELEVATION DRAWINGS FOR EXTERIOR BRICK REPAIR AND TUCKPOINTING.

9. FASTEN SISTERS WITH 1/4"x3" SWS @ 24"o.c. STAGGERED UNLESS NOTED OTHERWISE.

SATURATED OR DETERIORATED JOISTS WITH NEW JOISTS OF THE SAME SIZE.

3. LUMBER AT 1ST FLOOR AND BASEMENT SHALL BE PRESSURE TREATED.

BOTTOM EACH 4" WYTHE, OR AN L4x3-1/2x5/16" LINTEL LLV, EACH WYTHE.

6. REPAIR AND TUCKPOINT INTERIOR MASONRY PER THE GENERAL NOTES.

2. REMOVE DAMAGED OR SATURATED SHEATHING AND REPLACE WITH NEW APA RATED SHEATHING. REPLACE DAMAGED,

4. WOOD LINTELS AT OPENINGS IN MASONRY WALLS WHERE ROTTED SHALL BE REPLACED WITH A STEEL HSS4x4x3/8 (GALVANIZED) LINTEL AT EACH 4" WYTHE. ALTERNATIVELY USE A 4"x8" PRECAST CONCRETE LINTEL WITH #5 TOP AND

7. FIELD VERIFY ALL EXISTING CONDITIONS, NOTIFY ADVANTAGE GROUP ENGINEERS OF ANY DESCREPANCIES.

8. SWS = STRUCTURAL WOOD SCREW. ALLOWABLE SCREWS ARE 1/4" SIMPSON SDS, 1/4" SPAX POWERLAGS OR 1/4"

-NEW 1 3/4"x11 1/4" @ 16"o.c.

2ND FLOOR FRAMING PLAN

SCALE 1/4" = 1'-0"

NEW 2x12

@ 16"o.c.

NEW 1 3/4"x11 1/4"

LVL @ 16"o.c.

STRUCTURAL INFORMATION NOTED IS BASED ON ASSUMPTIONS OF CONDITION OF EXISTING FRAMING & FRAMING HIDDEN FROM VISUAL OBSERVATION. DETAILS OF PROPOSED FRAMING MODIFICATION/REPAIRS ARE SUBJECT TO CHANGE ONCE DEMOLITION IS UNDERWAY

Proj. No.: 22146.20 Drawing No.

Design Team: KCJ / SJ Date: 02/17/2023

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Cincinnati, OH 45206 513 396 8900 www.advantageSE.com

PROJECT KEYNOTES:

- INFILL EX OPENING WITH SOLID CMU OR HOLLOW CMU, GROUTED SOLID, TO MATCH WALL THICKNESS ABOVE. GROUT/MORTAR TIGHT TO EX STONE FOUNDATION WALLS AND MASONRY ABOVE. REMOVE EX WOOD LINTELS, CUT EX JOISTS BACK, AND BEAR JOISTS
- REMOVE DEBRIS FROM EXTERIOR WINDOW WELL OR STAIR. FILL WITH 250 PSI CONTROLLED DENSITY FILL (CDF). TOP WITH 4" CONCRETE SIDEWALK SLAB.
- PROVIDE NEW 1' THICK x 2' WIDE CONCRETE FOOTING BEARING ON NATIVE SOIL. INFILL EX OPENING WITH SOLID CMU OR HOLLOW CMU, GROUTED SOLID, TO MATCH WALL THICKNESS ABOVE. GROUT/MORTAR TIGHT TO EX STONE FOUNDATION WALLS AND
- 4 > (2) 2x12 HEADER w/ HUS210-2 HANGER EACH END AND 2x12 END JOIST WITH L70 EACH END.
- REMOVE EXISTING MASONRY WALL. PROVIDE NEW MASONRY WALL CONSISTING OF 4" BRICK AND 4" SOLID CMU, w/ HORIZONTAL REINFORCING AT 8" o.c. AT OPENINGS, PROVIDE (2) 4"x8" PRECAST LINTELS w/ #4 TOP AND BOTTOM, EXTERIOR LINTEL CAST STONE TO
- ADHESIVE ANCHOR #4x12" LONG REBAR INTO EXISTING BRICK AT 16" o.c. w/ HILTI HIT-HY270 ADHESIVE, 16" SPACING, 4" MIN EMBEDMENT.
- REMOVE EXISTING ROTTED OR DAMAGED LINTELS AND REPLACED PER TYPICAL LINTEL
- INFILL EXISTING OPENING WITH NEW SOLID CMU AT INNER WYTHES, 4" CMU FOR (2) WYTHE WALLS AND 8" CMU FOR (3) WYTHE WALLS. INFILL EXTERIOR WYTHE WITH EXTERIOR BRICK, APPEARANCE TO MATCH EXISTING. REMOVE INTERIOR WOOD LINTELS AND SILLS, CMU AND BRICK TO BE MORTARED TIGHT TO EXISTIGN MASONRY WALL (4) SIDES. REMOVE EXISTING WOOD JAMB BLOCKS AND TOOTH INFILL MASONRY INTO
- REMOVE EXISTING MASONRY HEARTH, REPLACE w/ NEW 2x JOISTS AT 16" o.c. MAX, DEPTH \langle 14 \rangle TO MATCH EXISTING. CONNECT TO EX BEAMS EACH END w/ SIMPSON L70 ANGLES OR
- PROVIDE END SISTER, BEARING ON MASONRY WALL, PER TYPICAL JOIST END SISTER
- NEW (2) 2x12 HEADER w/ HUS210-2 EACH END. HANG JOISTS TO HEADER WITH LUS210
- NEW 2x6 WALL w/ 2x6 STUDS AT 16" o.c. @ OPENINGS PROVIDE (2) 2x8 HEADER w/ (1) (18) BEARING STUD AND (2) FULL HEIGHT STUDS. PROVIDE APA RATED SHEATHING AT
- NEW STAR PLATE AND WALL TIE, SEE TYPICAL DETAILS.
- REMOVE EXISTING DEPRESSED SIDEWALK SLAB AND INVESTIGATE SOIL BELOW. REMOVE
- REMOVE EXISTING STEEL LINTEL. PROVIDE NEW (2) W8x13 LINTELS w/ 8" MIN BEARING
- HHUS410 HANGER EACH END. HANG EXISTING JOISTS TO HEADER w/ LUS28R-18 HANGERS. RECONNECT EXISTING STRINGERS WITH ORIGINAL CONNECTION. PROVIDE 2x10 SISTERS IF NEEDED TO EXTEND EXISTING JOISTS.
- EXISTING FIRE ESCAPE EVALUATION NOT IN SCOPE. EXISTING BRACKET THRU WALL TIES ARE CORRODED AND SHALL BE REPAIRED PRIOR INTERIOR FINISHES. HAVE FIRE ESCAPE EVALUATED AND REPAIRED PER CITY OF CINCINNATI FIRE ESCAPE INSPECTION REPORT
- REMOVE FLOOR FRAMING AND SHEATHING. PROVIDE NEW 1 3/4"x9 1/2" LVL @ 16" o.c. AND NEW APA RATED SHEATHING.
- REMOVE AND REPLACE SOFT/DETERIORATED INTERIOR WYTHE BRICK, TUCK POINT AS NEEDED. KEEP HEADER COURSES. WHERE HEADER COURSES ARE DAMAGED, PROVIDE
- NEW 1 3/4" x7 1/4" LVL SISTER AT EX HEADER, HANG EACH END w/ ML26Z . CUT EX JOISTS AND HANG TO HEADER w/ LUS26R-18 HANGERS.
- AT 16"o.c. PROVIDE (2) 2x4 STUDS EACH END AND STRAP TO BEAM WITH SIMPSON MSTI26. NEW (2) 1 3/4"x9 1/4" LVL HEADER. POCKET INTO MASONRY WALL AND PROVIDE (2) (34) CRIPPLE STUDS AT WALL. CUT STUDS ABOVE AND NAIL TO TOP OF HEADER WITH (3)
- \langle 35 \rangle SIMPSON ML28Z ANGLE OR HU7 HANGER. PROVIDE NEW (2) 1 3/4"X7 $\overline{1}$ /4" LVL HEADER, CONNECT STAIR STRINGERS TO HEADER WITH ML28Z ANGLES.
- \langle 36 \rangle NEW W8x24 BEAM WITH 3 1/2" POCKET INTO BRICK.
- NEW (2) 2x12 HEADER HUNG TO WF BEAM WITH SIMPSON WP212-2 HANGER. HANG JOIST
- TO HEADER WITH WS210 HANGERS. NEW 1 3/4"x7 1/4" LVL SISTER. MITER AND BEAR ON WALL PLATE. CONNECT TO HIP BEAM
- REPLACE EXISTING CHIMNEY 4 FT BELOW ROOF LINE. GROUT EXISTING FLUES SOLID 24" (39) BELOW NEW MASONRY. INTERIOR WYTHES AND CMU GROUTED SOLID. PROVIDE HORIZONTAL REINFORCING @ 8"o.c. AND #5 VERTICAL AT ENDS.
- REMOVE EXISTING FLOOR. PROVIDE NEW 2x12 JOISTS, POCKET INTO EXISTING JOIST 40 POCKETS, 2" MIN BEARING. FIRE CUT JOISTS AS NEEDED WITH A MINIMUM DEPTH OF 5 1/2" REMAINING. PROVIDE NEW APA RATED SHEATHING.

- MASONRY ABOVE. REMOVE EX WOOD LINTELS.
- REPAIR MASONRY WALL.
- 6 REMOVE LOOSE SOIL AT BASE AND FILL VOID WITH 250 PSI CDF.
- NEW 4" CONCRETE SLAB.
- NEW 1'-0" THICK x 2'-6"x2-'6" CONCRETE FOOTING.

- EXISTING MASONRY ALONG VERTICAL EDGES.
- REPAIR MASONRY JAMB. REMOVE ALL WOOD AND BROKEN MASONRY. REPLACE WITH \langle 13 \rangle NEW MASONRY TO CREATE A SQUARE JAMB. TUCK POINT DETERIORATED MORTAR

- NEW 2x12" SISTER, BEAR NORTH END ON MASONRY WALL. SOUTH END SHALL BE WITHIN (16) 4" OF WALL w/ (4) 1/4"x3-1/2" SWS AT SOUTH END. FASTEN ALONG LENGTH w/ (2) 1/4"x3-1/2"

- 2x4 STUD WALL w/ 2x4 STUDS AT 16" o.c. PROVIDE APA RATED SHEATING TO THE INSIDE

- LOOSE SOIL AND FILL WITH 250 PSI CDF. REPLACE SIDEWALK WITH NEW 4" CONCRETE SLAB.
- 23 NEW HSS3x3x1/4" COLUMN.
- NEW 1 3/4"X11-7/8" LVL SISTER, BEAR EACH END. CONNECT SISTER w/ (6) 1/4"x3 1/4" SWS AT LOCATION, AND PER PLAN NOTES.
- REMOVE EXISTING DOUBLE AND PROVIDE NEW (2) 1 3/4"x11 7/8" LVL HEADER w/ (2)
- PROVIDE 2x10 SISTER AND ANCHOR SISTER AND JOIST TO WALL w/ 3/8" SLEEVE ANCHORS, 2" MIN EMBEDMENT, AT 32" o.c.

- NEW 1 3/4"x9 1/2" LVL SISTER, BEAR ON NORTH END, SOUTH END SHALL BE 4" MIN FROM
- SPIRALOK TIES AT 8" o.c. HORIZONTAL SPACING, TOP AND BOTTOM OF HEADER COURSE.
- NEW 1 3/4"x7 1/4" LVL SISTER, BEAR ON SOUTH WALL, NORTH END SHALL BE 4" MIN FROM WALL.
- NEW (2) 2x10 BEAM BELOW SHEAR WALL. FASTEN SHEAR WALL WITH (2) 0.148"x3.5" NAILS
- ─____ 0.131"x3" TOE NAILS. REMOVE EXISTING LANDING. PROVIDE NEW 1 3/4"x7 1/4" LVL JOISTS @ 12"o.c. WITH

NORTH **ROOF FRAMING PLAN** SCALE 1/4" = 1'-0"

NEW OPENING

COORD w/ ARCH

-REMOVE EXISTING HEADER

4TH FLOOR FRAMING PLAN

SCALE 1/4" = 1'-0"

(11)

 $\langle 11 \rangle$

NEW (2) 1 3/4"x7 1/4" LVL

HEADER WITH HUS48 EACH END

SEE S120 FOR LOW ROOF

FRAMING PLAN

__(36)

1. COORDINATE ALL DIMENSIONS, DOOR AND WINDOW LOCATIONS WITH ARCHITECTURAL DRAWINGS.

SATURATED OR DETERIORATED JOISTS WITH NEW JOISTS OF THE SAME SIZE

3. LUMBER AT 1ST FLOOR AND BASEMENT SHALL BE PRESSURE TREATED.

BOTTOM EACH 4" WYTHE, OR AN L4x3-1/2x5/16" LINTEL LLV, EACH WYTHE.

6. REPAIR AND TUCKPOINT INTERIOR MASONRY PER THE GENERAL NOTES.

5. SEE STRUCTURAL ELEVATION DRAWINGS FOR EXTERIOR BRICK REPAIR AND TUCKPOINTING.

9. FASTEN SISTERS WITH 1/4"x3" SWS @ 24"o.c. STAGGERED UNLESS NOTED OTHERWISE.

2. REMOVE DAMAGED OR SATURATED SHEATHING AND REPLACE WITH NEW APA RATED SHEATHING. REPLACE DAMAGED,

4. WOOD LINTELS AT OPENINGS IN MASONRY WALLS WHERE ROTTED SHALL BE REPLACED WITH A STEEL HSS4x4x3/8

7. FIELD VERIFY ALL EXISTING CONDITIONS, NOTIFY ADVANTAGE GROUP ENGINEERS OF ANY DESCREPANCIES.

S330

8. SWS = STRUCTURAL WOOD SCREW. ALLOWABLE SCREWS ARE 1/4" SIMPSON SDS, 1/4" SPAX POWERLAGS OR 1/4"

(GALVANIZED) LINTEL AT EACH 4" WYTHE. ALTERNATIVELY USE A 4"x8" PRECAST CONCRETE LINTEL WITH #5 TOP AND

PLAN NOTES:

FASTEN MASTER LEDGER LOK.

⟨30⟩

EXISTING 4"x5" HIP BEAM

<11>→

NEW (3) 1 3/4"x7 1/4" LVL

HIP BEAM

NEW 6x6

POST

BEAM BELOW EXISTING —

NEW 6x6 POST

S330

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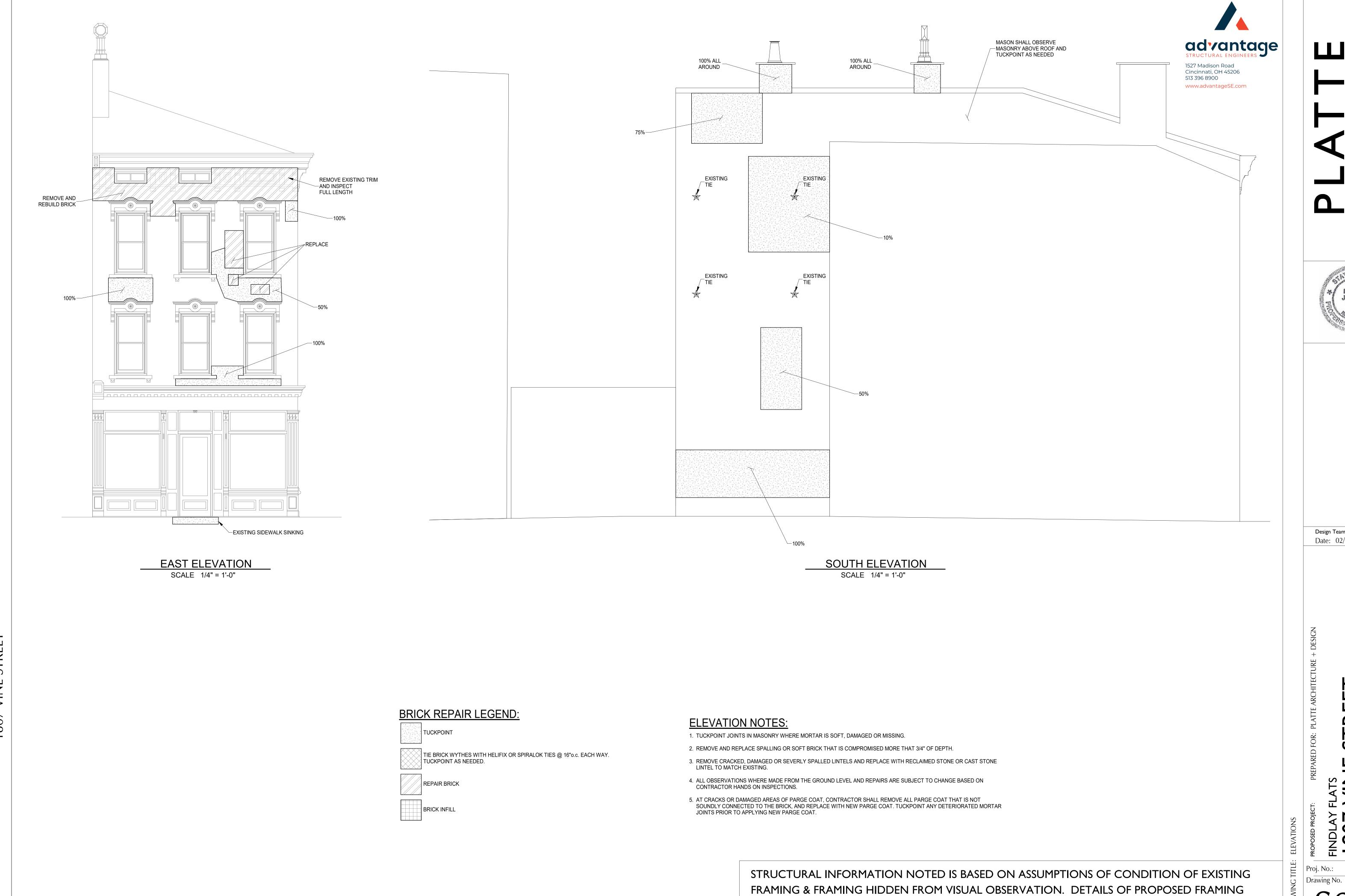
Design Team: KCJ / SJ

Date: 02/17/2023

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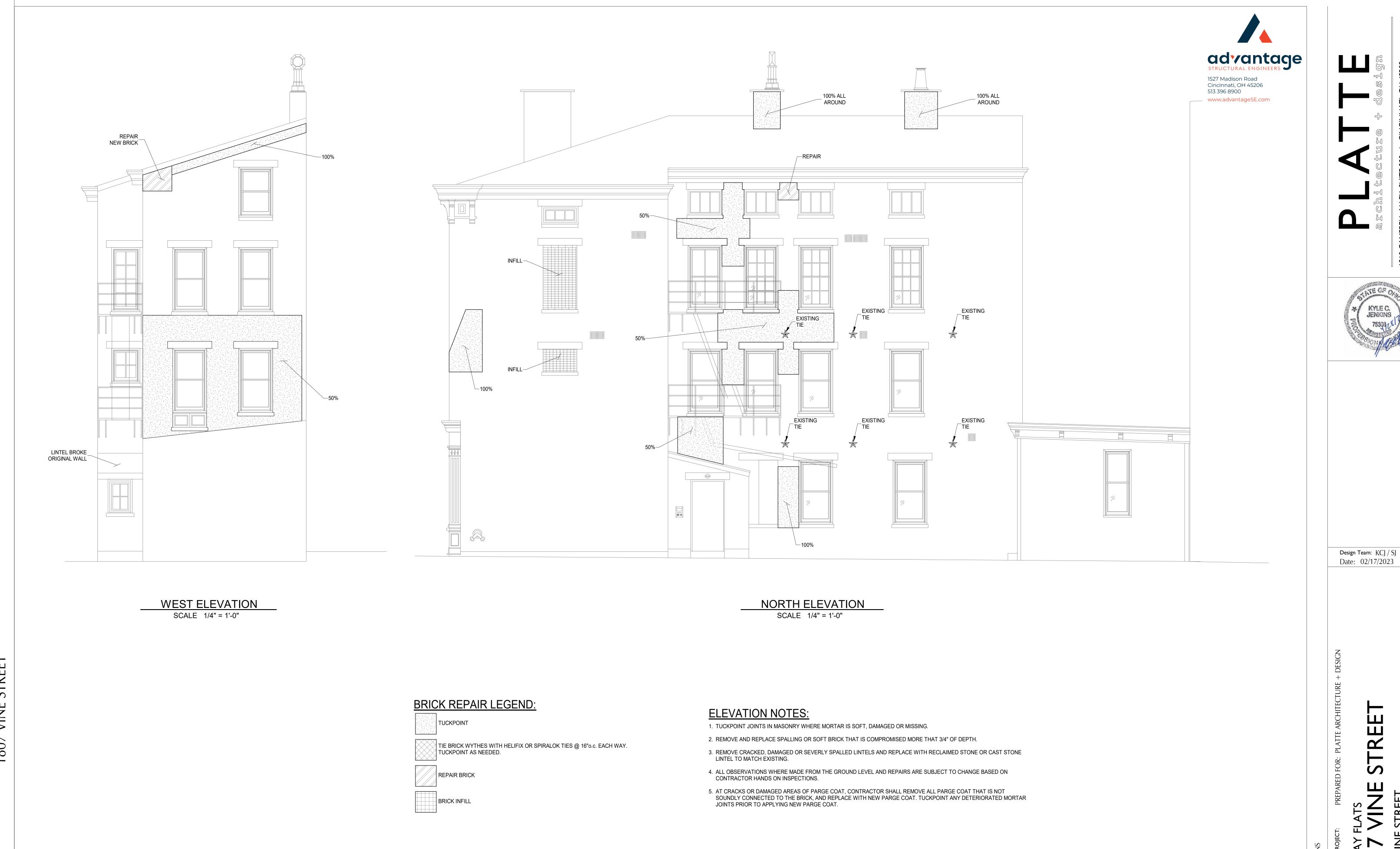
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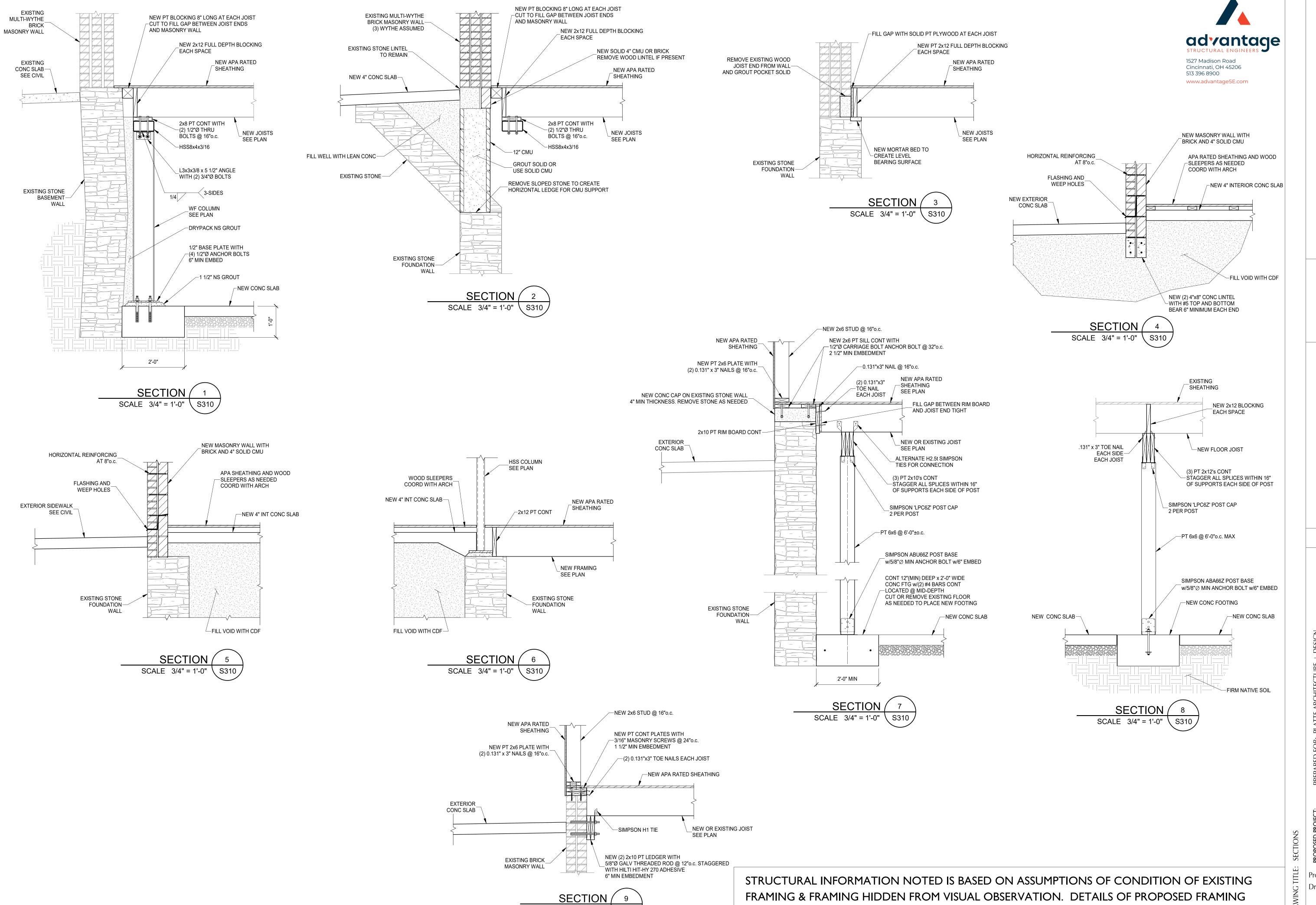
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MODIFICATION/REPAIRS ARE SUBJECT TO CHANGE ONCE DEMOLITION IS UNDERWAY

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SCALE 3/4" = 1'-0"

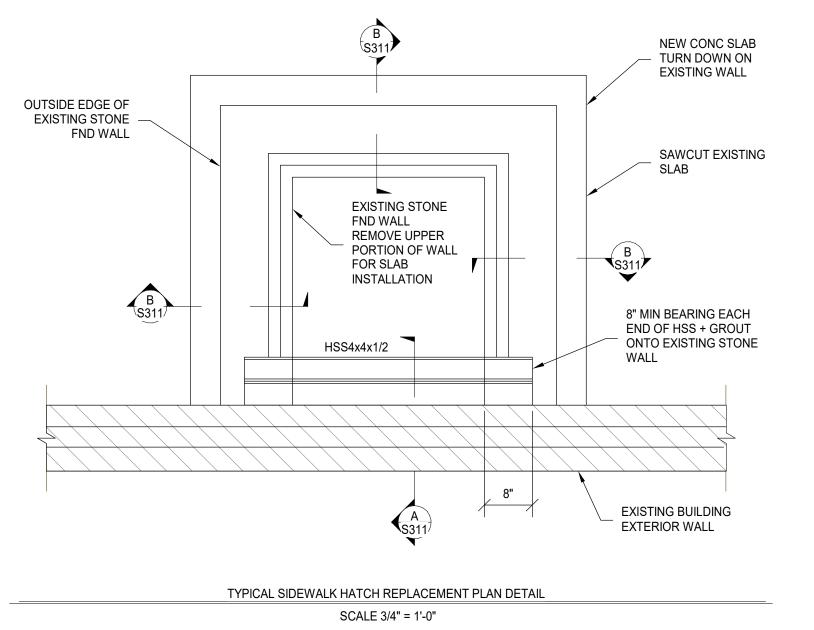
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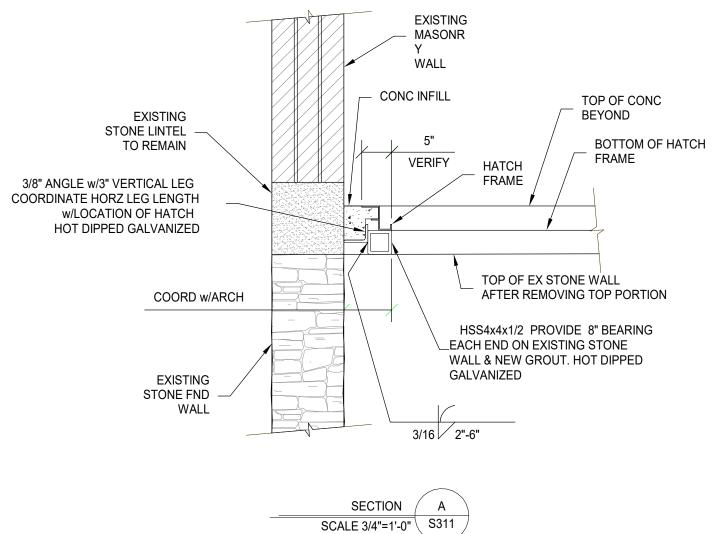
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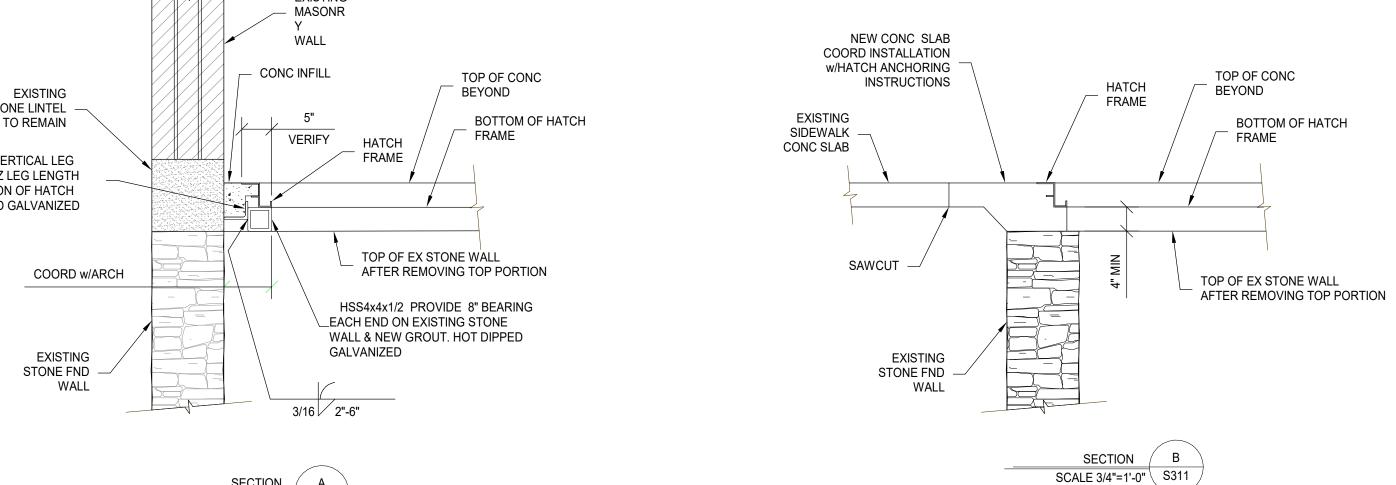
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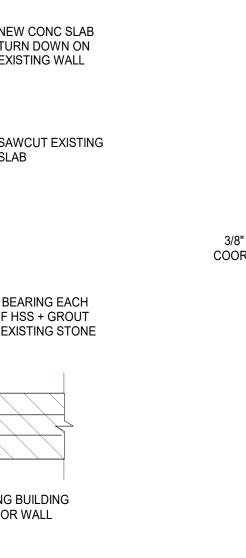
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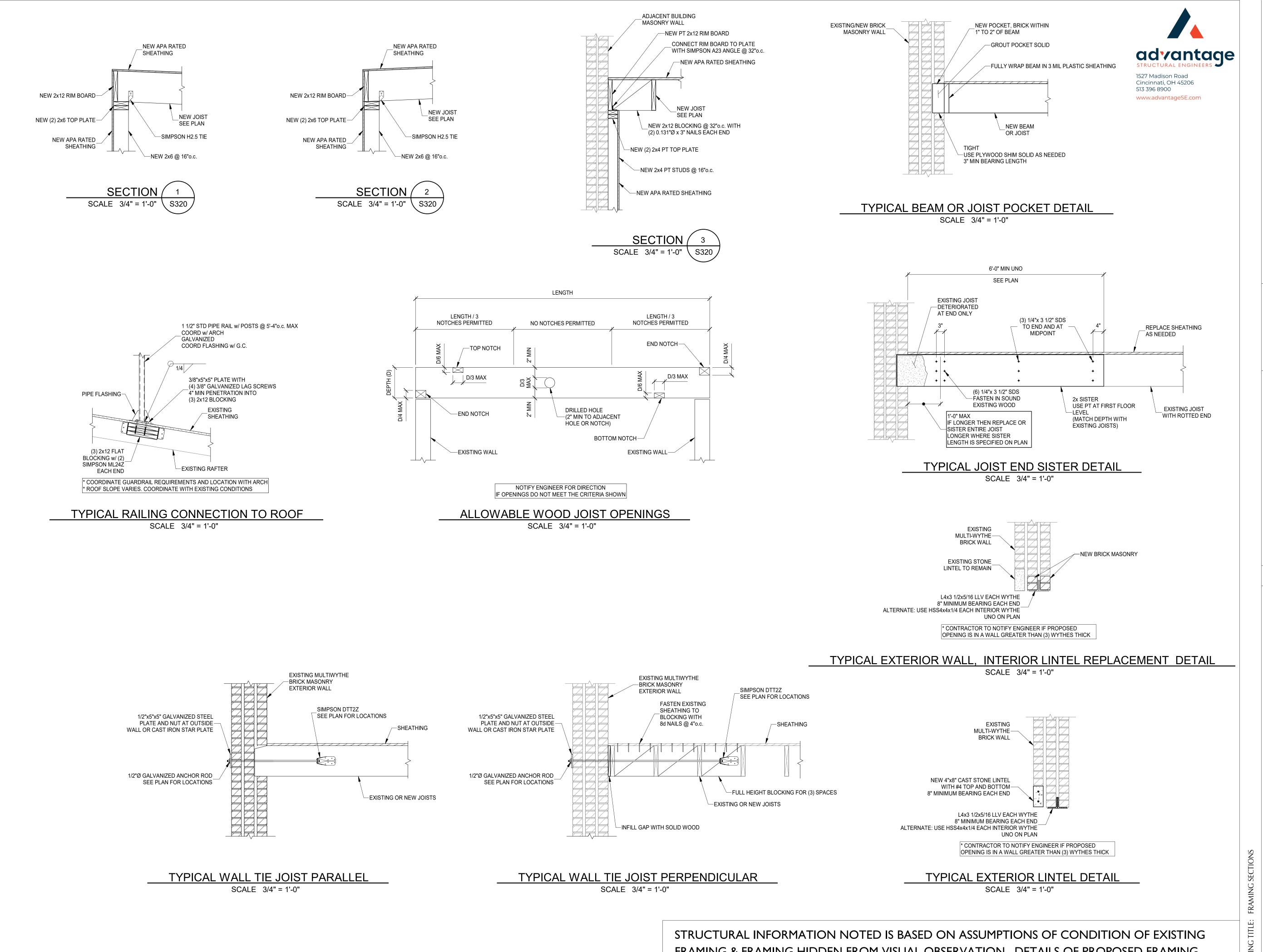


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VIINE S | KEE | E STREET |ATI, OH 45202

KYLE C. JENKINS

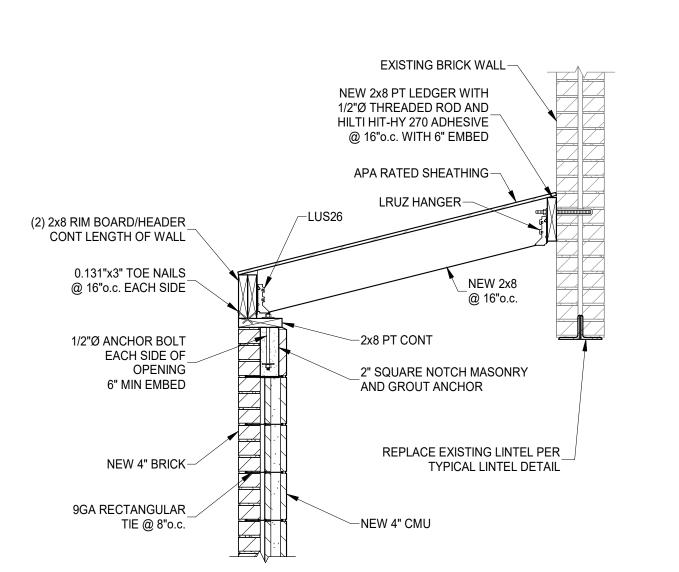
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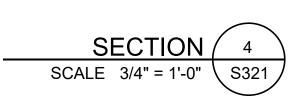
1807 VINE STREET

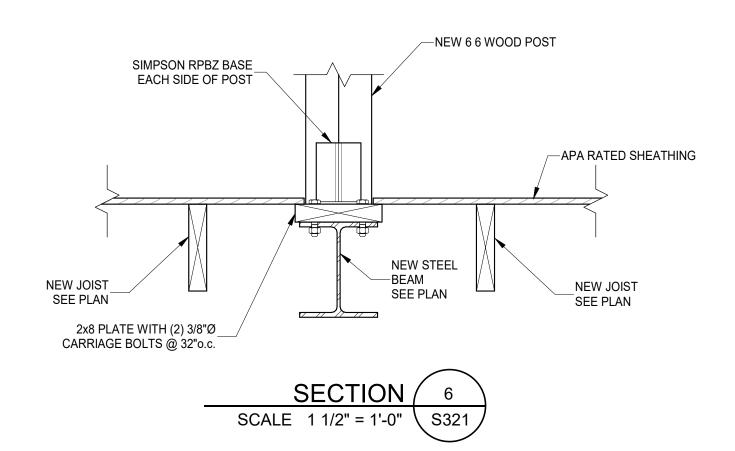
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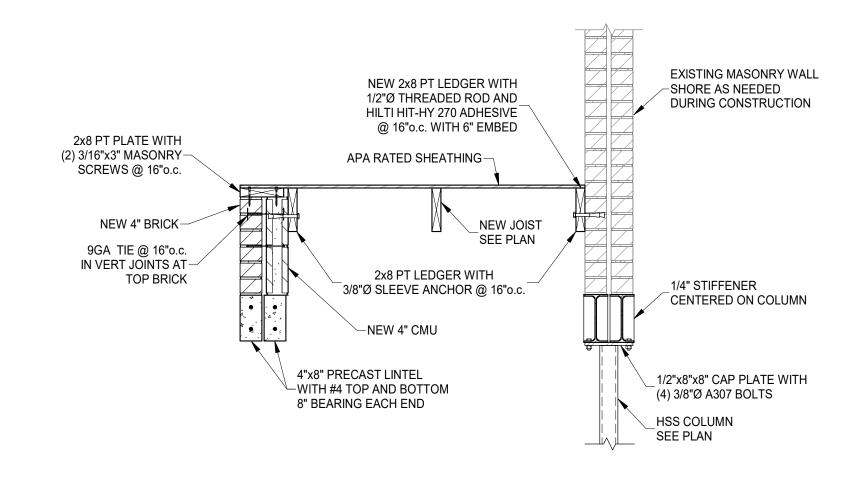
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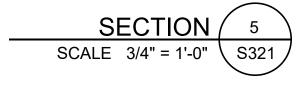
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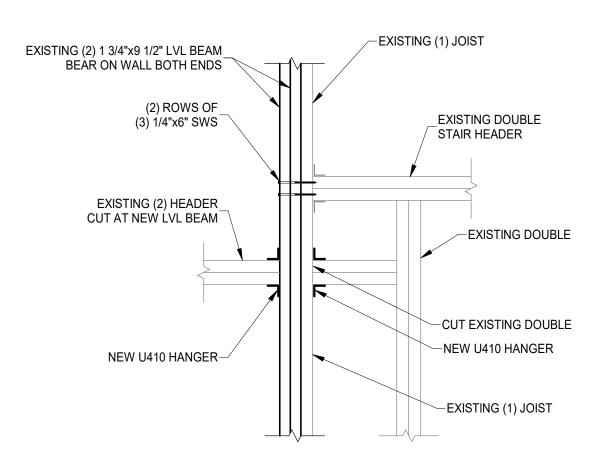


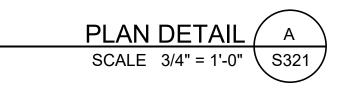












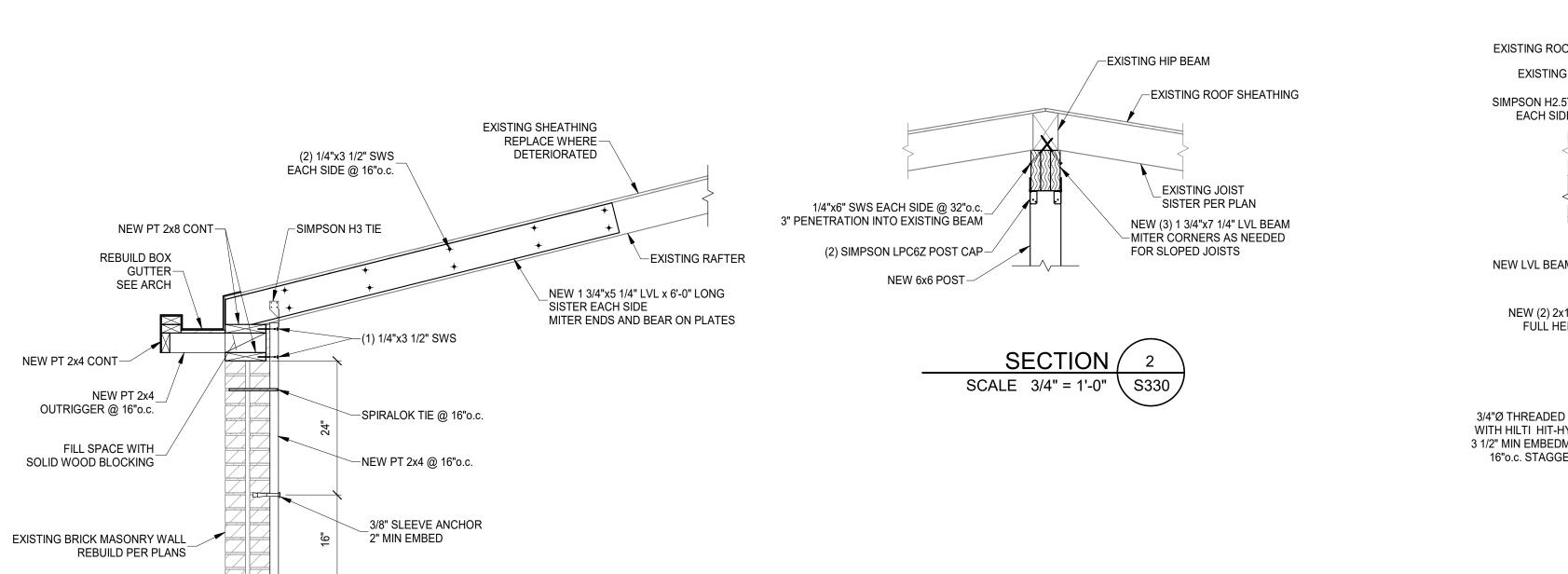
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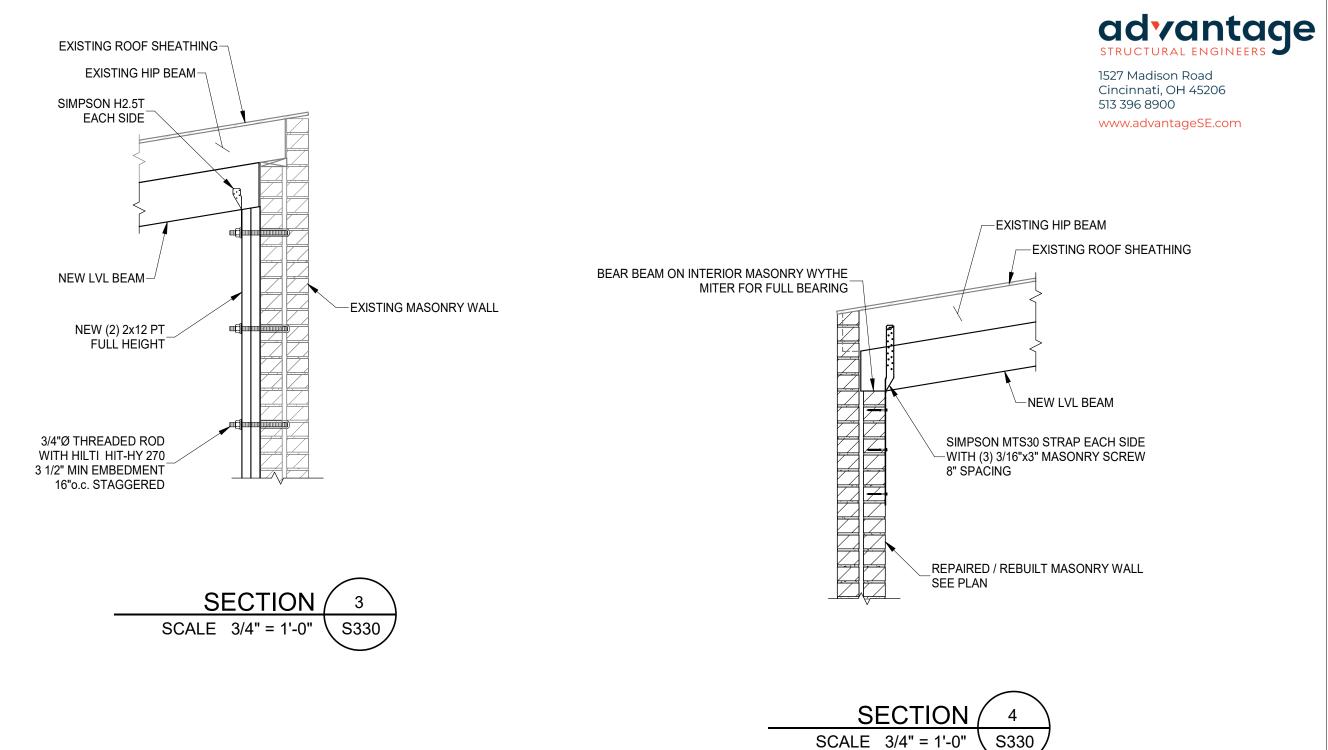
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SCALE 3/4" = 1'-0"



Design Team: KCJ / SJ Date: 02/17/2023

STRUCTURAL INFORMATION NOTED IS BASED ON ASSUMPTIONS OF CONDITION OF EXISTING FRAMING & FRAMING HIDDEN FROM VISUAL OBSERVATION. DETAILS OF PROPOSED FRAMING MODIFICATION/REPAIRS ARE SUBJECT TO CHANGE ONCE DEMOLITION IS UNDERWAY

EBS - RESIDENTIAL DIFFUSER, GRILLE, AND REGISTER SCHEDULE

10x10 14x12

10x10

10x10

CALLOUT	DESCRIPTION	FACE SIZE (IN)	INLET SIZE (IN)	MODEL	NOTE 1
DTG-1	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	18x12	16x10	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
DTG-1C	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	18x12	16x10	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
EVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED EXHAUST VENT.	6x7	4Ø	FAMCO SDWVP	BACKDRAFT DAMPER/ANGLED HOOD. 1/4 INCH INSECT SCREEN.
EVH-6	28 GAUGE GALVANIZED STEEL. PRE-PAINTED EXHAUST VENT.	8x9	6Ø	FAMCO SDWVP	BACKDRAFT DAMPER/ANGLED HOOD. 1/4 INCH INSECT SCREEN.
FR-5	FLOOR REGISTER, ALL-STEEL CONSTRUCTION, 75% FREE AREA, TOE-OPERATED VALVE CONTROL	12x8	10x6	HART AND COOLEY/ 210	GOLDEN SAND ENAMEL FINISH
FRG-3	RETURN AIR FILTER GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	32x14	30x12	HART AND COOLEY/ 265	GOLDEN SAND ENAMEL FINISH
IVH-6	28 GAUGE GALVANIZED STEEL. PRE-PAINTED INTAKE VENT.	8x9	6Ø	FAMCO SWVP	ANGLED HOOD.1/4 INCH INSECT SCREEN.
RG-8	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	22x16	20x14	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
RR-1	STEEL RETURN GRILLE, 3/4" BLADE SPACING, 35 DEGREE DEFLECTION, BLADES PARALLEL TO LONG DIMENSION	8x8	6x6	TITUS 350RL	STEEL OPPOSED-BLADE DAMPER OPERABLE FROM THE FACE OF THE GRILLE.
SDG1W-1	ALUMINUM SINGLE DEFLECTION SPIRAL DIFFUSER	12x5	10x3	HART AND COOLEY/ SV	ADJUSTABLE DAMPER, BRIGHT WHITE FINISH
SDG2W-3	ALUMINUM DOUBLE DEFLECTION SPIRAL DIFFUSER	14x6	12x4	HART AND COOLEY/ SVH	ADJUSTABLE DAMPER, BRIGHT WHITE FINISH
SR1W-1C	STEEL 1-WAY REGISTER, PLATE DAMPER, 1/3" FIN SPACING	10x6	8x4	HART AND COOLEY/ 651	ADJUSTABLE PLATE DAMPER, BRIGHT WHITE FINISH
SR1W-4	STEEL 1-WAY REGISTER, PLATE DAMPER, 1/3" FIN SPACING	12x8	10x6	HART AND COOLEY/ 651	ADJUSTABLE PLATE DAMPER, BRIGHT WHITE FINISH
SR1W-5	STEEL 1-WAY REGISTER, PLATE DAMPER, 1/3" FIN SPACING	14x8	12x6	HART AND COOLEY/ 651	ADJUSTABLE PLATE DAMPER, BRIGHT WHITE FINISH
SR1WS-1	STEEL 1-WAY REGISTER, MS DAMPER, 1/2" FIN SPACING	10x8	8x6	HART AND COOLEY/ 681	ADJUSTABLE DAMPER, SIDE DEFLECTION, BRIGHT WHITE FINISH
SR1WS-3	STEEL 1-WAY REGISTER, MS DAMPER, 1/2" FIN SPACING	18x8	16x6	HART AND COOLEY/ 681	ADJUSTABLE DAMPER, SIDE DEFLECTION, BRIGHT WHITE FINISH
SR2W-2	STEEL 2-WAY REGISTER, MS DAMPER, 1/3" FIN SPACING	12x6	10x4	HART AND COOLEY/ 661	ADJUSTABLE DAMPER IN FACE, BRIGHT WHITE FINISH
SR2W-7	STEEL 2-WAY REGISTER, MS DAMPER, 1/3" FIN SPACING	18x10	16x8	HART AND COOLEY/ 661	ADJUSTABLE DAMPER IN FACE, BRIGHT WHITE FINISH

UNOCCUPIED

14x10

★ KEYED SHEET NOTES

- ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOOR DRAIN IN MECHANICAL CLOSET, SLOPE PIPE A MINIMUM OF 1/8 " PER FOOT AWAY FROM UNIT. ROUTE LINE SET FROM OUTDOOR UNIT TO INDOOR AIR HANDLER. ALL PIPING SHALL BE CONCEALED IN FINISHED AREA. SIZE PER MANUFACTURES
- RETURN DUCT UP TO FIRST FLOOR. SUPPLY DUCT UP TO FIRST FLOOR.

RECOMMENDATIONS

10x10

- ALL BASEMENTS SHALL BE VENTILATED AS STORAGE/WAREHOUSE SPACE IN ACCORDANCE WITH TABLE 403.3 OF THE 2017 OHIO MECHANICAL CODE AT A
- RATE OF 0.06 CFM PER SQUARE FOOT. PROVIDE NEW FAN IN BASEMENT FOR CODE MINIMUM OSA LISTED ABOVE.
- FRESH AIR INTAKE THRU WALL TO WALL CAP.
- UNDERCUT DOOR 1" ABOVE FINISHED FLOOR FOR RETURN/ MAKE UP AIR. ROUTE EXHAUST TO EXTERIOR WALL. INSTALL A LOUVERED VENT. SEE ARCHITECT BEFORE PENETRATION FOR EXACT LOCATION AND COLOR COORDINATION. ALL EXHAUST SHALL MEET THE FOLLOWING REQUIREMENTS.
- 8.1. 3' FROM PROPERTY LINE.
- 8.2. 3' FROM OPERABLE OPENINGS INTO BUILDING. 8.3 10' FROM MECHANICAL AIR INTAKE
- 9. DUCT EXHAUST UP THROUGH ROOF WITH RAIN-PROOF CAP. 10. 4" EXHAUST DUCT TO BE ROUTED DIRECTLY TO ROOF, AS ALLOWED PER 717.6.1 EXCEPTION. DUCT MUST BE MINIMUM 26 GA. AND BE CONTAINED WITHIN WALL CAVITY FOR FULL LENGTH. FIRE CAULK AROUND ALL
- PENETRATIONS. REFER TO DETAIL. . DUCTED RETURN BETWEEN TRANSFER GRILLES TO AVOID EXPOSED WALL
- . ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOOR DRAIN IN BASEMENT. SLOPE PIPE A MINIMUM OF 1/8 " PER FOOT AWAY FROM UNIT. PROVIDE CONDENSATE PUMP AS REQUIRED.
- B. MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL LINE-SET COVERS FOR
- ALL EXPOSED REFRIGERANT PIPING AND CONDENSATE PIPING. 14. DUCTED RETURN SLEEVE TO AVOID EXPOSED WALL CAVITY.
- 15. ROUTE EXHAUST DUCT UP IN JOIST POCKET. RATING SHALL BE MAINTAINED AROUND JOIST TO PREVENT FIRE DAMPER. REFER TO ARCHITECTURAL PLANS FOR DETAILS.

MECHANICAL SCOPE OF WORK (PLAN REVIEW ONLY)

MECHANICAL SCOPE OF WORK IS TO PROVIDE NEW HVAC EQUIPMENT TO RESIDENTIAL AND COMMERCIAL SPACES. MECHANICAL CONTRACTOR SHALL REFERENCE ALL DISCIPLINE DRAWING, ETC. TO REVEAL FULL SCOPE OF WORK. REFER TO MECHANICAL SPECIFICATIONS FOR ADDITIONAL DETAILS.

HVAC DESIGN CONDITIONS

RESIDENTIAL COOLING HEATING COOLING HEATING
OUTDOOR: 93 DB / 75 WB OUTDOOR: 0 DB OUTDOOR: 93 DB / 75 WB OUTDOOR: 0 DB INDOOR: 70 INDOOR: 75

GENERAL NOTES

- A. FOR FULL SCHEDULES, SPECIFICATIONS, AND COMPLETE LISTING SEE DETAIL
- B. COORDINATE ROUTING OF ALL WORK WITH OTHER TRADES.
- C. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER CONNECTIONS TO ALL MECHANICAL EQUIPMENT.
-). INSTALL ALL EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. MAINTAIN ALL CODE RECOMMENDED CLEARANCES FOR ACCESS AND MAINTENANCE.
- REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS, AND FINAL CEILING DIFFUSER LOCATIONS.
- PROVIDE BACKDRAFT DAMPERS FOR ALL EXHAUST SYSTEMS AND EITHER LOUVER, BRICK VENT, OR CAPS AT ALL EXTERIOR BUILDING PENETRATIONS.
- G. IN DWELLING UNITS, ROUTE ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ABOVE DROP CEILING OR IN BULKHEADS. COORDINATE ROUTING WITH ARCHITECTURAL DRAWINGS. DUCTS SHALL BE RUN BELOW THE RATED
- H. ROUTE ALL AIR CONDITIONER CONDENSATE TO NEARBY FLOOR DRAIN. PROVIDE MINIMUM SLOPE OF 1/8 " PER FOOT. SIZE CONDENSATE PER SECTION 307.2.2 OF THE OHIO MECHANICAL CODE.
- MOUNT THERMOSTATS 60" ABOVE FINISHED FLOOR. MOUNT THERMOSTATS IN ADA UNITS 40" ABOVE FINISHED FLOOR.
- . ANY EQUIPMENT THAT IS SUBSTITUTED SHALL FIT IN THE SPACE PROVIDED WITH ADEQUATE ROOM FOR SERVICING, INCLUDING SUBSTITUTE EQUIPMENT NAMED IN THE SPECIFICATIONS. SUBMIT A 1/4" SCALE DRAWING OF ALL EQUIPMENT SUBSTITUTED FOR APPROVAL PRIOR TO INSTALLATION, INCLUDING, BUT NOT LIMITED TO, STRUCTURAL AND ARCHITECTURAL IMPACT, CLEARANCE REQUIREMENTS AND UTILITY REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE ALL NEW ELECTRICAL AND PLUMBING REQUIREMENTS WITH THE ELECTRICAL AND PLUMBING
- MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABLED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.
- J. THE FOLLOWING GUIDELINES MUST BE FOLLOWED FOR THE DOMESTIC DRYER EXHAUST SYSTEMS. J.A. EXHAUST DUCTS SHALL HAVE A SMOOTH INTERIOR FINISH AND BE
- CONSTRUCTED OF METAL A MINIMUM OF 28 GAGE. J.B. DUCT SIZE SHALL BE 4 INCHES NOMINAL DIAMETER. J.C. DUCTS SHALL BE SUPPORTED AT 4-FOOT INTERVALS AND SECURED IN
- PLACE. THE INSERT END OF THE DUCT SHALL EXTEND INTO THE ADJOINING DUCT OR FITTING IN THE DIRECTION OF AIRFLOW.
- J.D. DUCTS SHALL NOT BE JOINED WITH SCREWS OF SIMILAR FASTENERS THAT
- PROTRUDE MORE THAN $\frac{1}{8}$ INCH INTO THE INSIDE OF THE DUCT. J.E. PROTECTIVE SHIELD PLATES SHALL BE PLACED WHERE NAILS OR SCREWS FROM FINISH OR OTHER WORK ARE LIKELY TO PENETRATE THE CLOTHES DRYER EXHAUST DUCT. SHIELD PLATES SHALL BE PLACED ON THE FINISHED FACE OF ALL FRAMING MEMBERS WHERE THERE IS LESS THAN 1-1/4 INCHES BETWEEN THE DUCT AND THE FINISHED FACE OF THE FRAMING MEMBER. SHIELD PLATES SHALL BE CONSTRUCTED OF STEEL, HAVE A THICKNESS OF 0.062 INCHES, AND EXTEND NOT LESS THAN 2 INCHES ABOVE SOLE PLATES AND BELOW TOP PLATES.
- J.F. TRANSITION DUCTS USED TO CONNECT THE DRYER TO THE EXHAUST DUCT SYSTEM SHALL BE A SINGLE LENGTH THAT IS LISTED AND LABELED IN ACCORDANCE WITH UL 2158A. TRANSITION DUCTS SHALL BE NOT GREATER THAN 8 FEET IN LENGTH AND SHALL NOT BE CONCEALED WITHIN CONSTRUCTION.
- J.G. PROVIDE DRYER WALL BOX EQUAL TO DUNDAS JAFINE MODEL DRB4XZW
- NEAR DRYER. J.H. PROVIDE A PERMANENT LABEL OR TAG (EQUAL TO DRYERPLACARD) INDICATING ACTUAL EQUIVALENT LENGTH OF EXHAUST DUCT. LENGTH SHALL INCLUDE 5' FOR 90 . LABEL/TAG MUST BE WITHIN 6' OF DRYER EXHAUST CONNECTION. DRYER EXHAUST DUCT FITTING EQUIVALENT LENGTH SHALL BE 2'-6" FOR A RADIUS MITERED 45-DEGREE ELBOW AND 5 FEET FOR A RADIUS MITERED 90-DEGREE ELBOW.

SYMBOLS LE	EGEND — HVAC
T	THERMOSTAT
	CEILING DIFFUSER
→	SIDE WALL GRILL
-	RETURN WALL GRILL
← √_	AIR FLOW DIRECTION
14x10	DUCTWORK
\boxtimes	TYPICAL SUPPLY DUCT DN
	TYPICAL RETURN DUCT DN
N N	TYPICAL EXHAUST DUCT
زرد	TURNING VANES
⊠ ~~~	FLEXIBLE DUCT, 8'-0" LONG MAX.
Ø_	TYPICAL ROUND DUCT DN
	ROUND DUCT UP
	MVD MANUAL VOLUME DAMPER
	DROPPED CEILING/SOFFIT





Progress Dates

04-28-2023 Permit

Revisions

Checked By: SSS

Drawn by: RPG



FEAMWORK • COLLABORATION SHARED SUCCESS 515 Monmouth Street, Suite 204 Newport, KY 41071 (859) 261-0585 MEP Consulting Services, Inc. in OH Copyright © 2015

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Job No: 22042 8/10/2022

CALLOUT	DESCRIPTION	FACE SIZE (IN)	INLET SIZE (IN)	MODEL	NOTE 1
DTG-1	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	18x12	16x10	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
DTG-1C	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	18x12	16x10	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
EVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED EXHAUST VENT.	6x7	4Ø	FAMCO SDWVP	BACKDRAFT DAMPER/ANGLED HOOD. 1/4 INCH INSECT SCREEN.
EVH-6	28 GAUGE GALVANIZED STEEL. PRE-PAINTED EXHAUST VENT.	8x9	6Ø	FAMCO SDWVP	BACKDRAFT DAMPER/ANGLED HOOD. 1/4 INCH INSECT SCREEN.
FR-5	FLOOR REGISTER, ALL-STEEL CONSTRUCTION, 75% FREE AREA, TOE-OPERATED VALVE CONTROL	12x8	10x6	HART AND COOLEY/ 210	GOLDEN SAND ENAMEL FINISH
FRG-3	RETURN AIR FILTER GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	32x14	30x12	HART AND COOLEY/ 265	GOLDEN SAND ENAMEL FINISH
IVH-6	28 GAUGE GALVANIZED STEEL. PRE-PAINTED INTAKE VENT.	8x9	6Ø	FAMCO SWVP	ANGLED HOOD.1/4 INCH INSECT SCREEN.
RG-8	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	22x16	20x14	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
RR-1	STEEL RETURN GRILLE, 3/4" BLADE SPACING, 35 DEGREE DEFLECTION, BLADES PARALLEL TO LONG DIMENSION	8x8	6x6	TITUS 350RL	STEEL OPPOSED-BLADE DAMPER OPERABLE FROM THE FACE OF THE GRILLE.
SDG1W-1	ALUMINUM SINGLE DEFLECTION SPIRAL DIFFUSER	12x5	10x3	HART AND COOLEY/ SV	ADJUSTABLE DAMPER, BRIGHT WHITE FINISH
SDG2W-3	ALUMINUM DOUBLE DEFLECTION SPIRAL DIFFUSER	14x6	12x4	HART AND COOLEY/ SVH	ADJUSTABLE DAMPER, BRIGHT WHITE FINISH
SR1W-1C	STEEL 1-WAY REGISTER, PLATE DAMPER, 1/3" FIN SPACING	10x6	8x4	HART AND COOLEY/ 651	ADJUSTABLE PLATE DAMPER, BRIGHT WHITE FINISH
SR1W-4	STEEL 1-WAY REGISTER, PLATE DAMPER, 1/3" FIN SPACING	12x8	10x6	HART AND COOLEY/ 651	ADJUSTABLE PLATE DAMPER, BRIGHT WHITE FINISH
SR1W-5	STEEL 1-WAY REGISTER, PLATE	14x8	12x6	HART AND COOLEY/ 651	ADJUSTABLE PLATE DAMPER, BRIGHT

SR1W-5 STEEL 1-WAY REGISTER, PLATE HART AND COOLEY/ 651 ADJUSTABLE PLATE DAMPER, BRIGHT | 12x6 DAMPER, 1/3" FIN SPACING WHITE FINISH SR1WS-1 STEEL 1-WAY REGISTER, MS DAMPER, 10x8 HART AND COOLEY/ 681 ADJUSTABLE DAMPER, SIDE DEFLECTION, BRIGHT WHITE FINISH 1/2" FIN SPACING SR1WS-3 16x6 HART AND COOLEY/ 681 ADJUSTABLE DAMPER, SIDE STEEL 1-WAY REGISTER, MS DAMPER, 18x8

★ KEYED SHEET NOTES

- ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOOR DRAIN IN MECHANICAL CLOSET. SLOPE PIPE A MINIMUM OF 1/8 " PER FOOT AWAY FROM UNIT. ROUTE LINE SET FROM OUTDOOR UNIT TO INDOOR AIR HANDLER. ALL PIPING SHALL BE CONCEALED IN FINISHED AREA. SIZE PER MANUFACTURES RECOMMENDATIONS.
- RETURN DUCT UP TO FIRST FLOOR. SUPPLY DUCT UP TO FIRST FLOOR.
- ALL BASEMENTS SHALL BE VENTILATED AS STORAGE/WAREHOUSE SPACE IN ACCORDANCE WITH TABLE 403.3 OF THE 2017 OHIO MECHANICAL CODE AT A RATE OF 0.06 CFM PER SQUARE FOOT. PROVIDE NEW FAN IN BASEMENT FOR CODE MINIMUM OSA LISTED ABOVE.
- FRESH AIR INTAKE THRU WALL TO WALL CAP. UNDERCUT DOOR 1" ABOVE FINISHED FLOOR FOR RETURN/ MAKE UP AIR. ROUTE EXHAUST TO EXTERIOR WALL. INSTALL A LOUVERED VENT. SEE ARCHITECT BEFORE PENETRATION FOR EXACT LOCATION AND COLOR

COORDINATION. ALL EXHAUST SHALL MEET THE FOLLOWING REQUIREMENTS.

8.1. 3' FROM PROPERTY LINE. 8.2. 3' FROM OPERABLE OPENINGS INTO BUILDING.

DEFLECTION, BRIGHT WHITE FINISH

WHITE FINISH

WHITE FINISH

_____<u>IVH-6</u> ↓

ADJUSTABLE DAMPER IN FACE, BRIGHT

ADJUSTABLE DAMPER IN FACE, BRIGHT

- 8.3 10' FROM MECHANICAL AIR INTAKE
- 9. DUCT EXHAUST UP THROUGH ROOF WITH RAIN-PROOF CAP. 10. 4" EXHAUST DUCT TO BE ROUTED DIRECTLY TO ROOF, AS ALLOWED PER 717.6.1 EXCEPTION. DUCT MUST BE MINIMUM 26 GA. AND BE CONTAINED WITHIN WALL CAVITY FOR FULL LENGTH. FIRE CAULK AROUND ALL PENETRATIONS. REFER TO DETAIL.
- 11. DUCTED RETURN BETWEEN TRANSFER GRILLES TO AVOID EXPOSED WALL 12. ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOOR DRAIN IN BASEMENT. SLOPE
- PIPE A MINIMUM OF 1/8 " PER FOOT AWAY FROM UNIT. PROVIDE CONDENSATE PUMP AS REQUIRED. 3. MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL LINE-SET COVERS FOR
- ALL EXPOSED REFRIGERANT PIPING AND CONDENSATE PIPING. 14. DUCTED RETURN SLEEVE TO AVOID EXPOSED WALL CAVITY. 5. ROUTE EXHAUST DUCT UP IN JOIST POCKET. RATING SHALL BE MAINTAINED
- AROUND JOIST TO PREVENT FIRE DAMPER. REFER TO ARCHITECTURAL PLANS FOR DETAILS.

MECHANICAL SCOPE OF WORK IS TO PROVIDE NEW HVAC EQUIPMENT TO RESIDENTIAL AND COMMERCIAL SPACES. MECHANICAL CONTRACTOR SHALL REFERENCE ALL DISCIPLINE DRAWING, ETC. TO REVEAL FULL SCOPE OF WORK. REFER TO MECHANICAL SPECIFICATIONS FOR ADDITIONAL DETAILS.

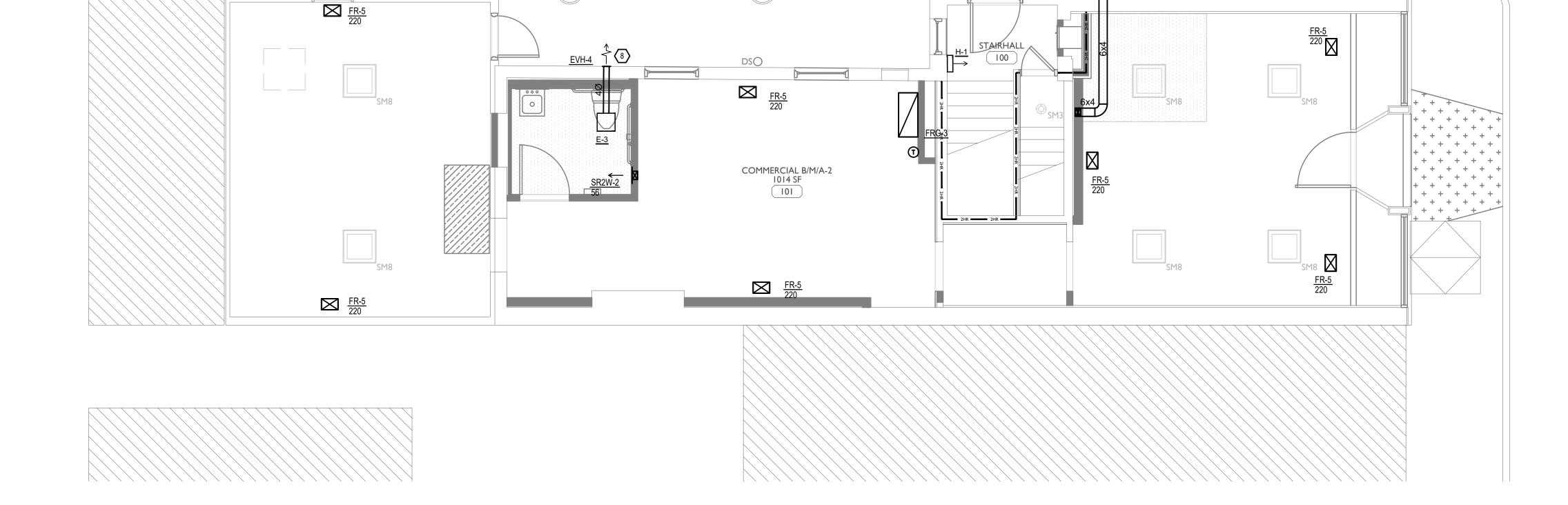
HVAC DESIGN CONDITIONS

l	COMMERCIAL	•	RESIDENTIAL	.
	COOLING OUTDOOR: 93 DB / 75 WB INDOOR: 72	HEATING OUTDOOR: 0 DB INDOOR: 70	COOLING OUTDOOR: 93 DB / 75 WB INDOOR: 75	HEATING OUTDOOR: INDOOR: 70
ı	INDOOR. 12	INDOOR. 10	INDOOR. 10	

GENERAL NOTES

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- E. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS, AND FINAL CEILING
- DIFFUSER LOCATIONS. . PROVIDE BACKDRAFT DAMPERS FOR ALL EXHAUST SYSTEMS AND EITHER LOUVER, BRICK VENT, OR CAPS AT ALL EXTERIOR BUILDING PENETRATIONS.
- G. IN DWELLING UNITS, ROUTE ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ABOVE DROP CEILING OR IN BULKHEADS. COORDINATE ROUTING WITH ARCHITECTURAL DRAWINGS. DUCTS SHALL BE RUN BELOW THE RATED
- H. ROUTE ALL AIR CONDITIONER CONDENSATE TO NEARBY FLOOR DRAIN. PROVIDE MINIMUM SLOPE OF 1/8 " PER FOOT. SIZE CONDENSATE PER SECTION 307.2.2 OF THE OHIO MECHANICAL CODE.
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- K. MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABLED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.
- J. THE FOLLOWING GUIDELINES MUST BE FOLLOWED FOR THE DOMESTIC DRYER EXHAUST SYSTEMS.
- J.A. EXHAUST DUCTS SHALL HAVE A SMOOTH INTERIOR FINISH AND BE CONSTRUCTED OF METAL A MINIMUM OF 28 GAGE.
- J.B. DUCT SIZE SHALL BE 4 INCHES NOMINAL DIAMETER. J.C. DUCTS SHALL BE SUPPORTED AT 4-FOOT INTERVALS AND SECURED IN PLACE. THE INSERT END OF THE DUCT SHALL EXTEND INTO THE ADJOINING
- DUCT OR FITTING IN THE DIRECTION OF AIRFLOW. J.D. DUCTS SHALL NOT BE JOINED WITH SCREWS OF SIMILAR FASTENERS THAT
- PROTRUDE MORE THAN \$ INCH INTO THE INSIDE OF THE DUCT. J.E. PROTECTIVE SHIELD PLATES SHALL BE PLACED WHERE NAILS OR SCREWS FROM FINISH OR OTHER WORK ARE LIKELY TO PENETRATE THE CLOTHES DRYER EXHAUST DUCT.SHIELD PLATES SHALL BE PLACED ON THE FINISHED FACE OF ALL FRAMING MEMBERS WHERE THERE IS LESS THAN 1-1/4 INCHES BETWEEN THE DUCT AND THE FINISHED FACE OF THE FRAMING MEMBER. SHIELD PLATES SHALL BE CONSTRUCTED OF STEEL, HAVE A THICKNESS OF 0.062 INCHES, AND EXTEND NOT LESS THAN 2 INCHES ABOVE SOLE PLATES
- AND BELOW TOP PLATES. TRANSITION DUCTS USED TO CONNECT THE DRYER TO THE EXHAUST DUCT SYSTEM SHALL BE A SINGLE LENGTH THAT IS LISTED AND LABELED IN ACCORDANCE WITH UL 2158A. TRANSITION DUCTS SHALL BE NOT GREATER THAN 8 FEET IN LENGTH AND SHALL NOT BE CONCEALED WITHIN CONSTRUCTION.
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- J.H. PROVIDE A PERMANENT LABEL OR TAG (EQUAL TO DRYERPLACARD) INDICATING ACTUAL EQUIVALENT LENGTH OF EXHAUST DUCT. LENGTH SHALL INCLUDE 5' FOR 90 . LABEL/TAG MUST BE WITHIN 6' OF DRYER EXHAUST CONNECTION. DRYER EXHAUST DUCT FITTING EQUIVALENT LENGTH SHALL BE 2'-6" FOR A RADIUS MITERED 45-DEGREE ELBOW AND 5 FEET FOR A RADIUS MITERED 90-DEGREE ELBOW.

SYMBOLS LI	EGEND — HVAC			
Ŧ	THERMOSTAT			
	CEILING DIFFUSER			
→	SIDE WALL GRILL			
\	RETURN WALL GRILL			
-	AIR FLOW DIRECTION			
14x10	DUCTWORK			
\boxtimes	TYPICAL SUPPLY DUCT DN			
	TYPICAL RETURN DUCT DN			
M	TYPICAL EXHAUST DUCT			
ردر	TURNING VANES			
⊠ ~~	FLEXIBLE DUCT, 8'-0" LONG MAX.			
Ø	TYPICAL ROUND DUCT DN			
	ROUND DUCT UP			
	MVD MANUAL VOLUME DAMPER			
	DROPPED CEILING/SOFFIT			



10x4

16x8

12x6

18x10

HART AND COOLEY/ 661

HART AND COOLEY/ 661

1/2" FIN SPACING

1/3" FIN SPACING

1/3" FIN SPACING

STEEL 2-WAY REGISTER, MS DAMPER,

STEEL 2-WAY REGISTER, MS DAMPER,

SR2W-2

SR2W-7

Z:\∼Project Directories\9700–9799\9757 – Findlay Flats Findlay Parkside (Willkommen ? Phase II)\∼Construction Documents\∼Phase 2 (3 Buildings)\1807 VINE\XREF–ART.dw THESE DRAWINGS AND SPECIFICATIONS ARE NOT AUTHORIZED TO BE USED AS CONTRACT DOCUMENTS. THESE DRAWINGS HAVE BEEN PREP≀ TO DETERMINE CODE COMPLIANCE. THE INSTALLING CONTRACTOR IS RESPONSIBLE TO ENSURE THAT MEANS, METHODS, AND MATERIALS USI GENERAL CONTRACTOR, ETC.



MECHANICAL SCOPE OF WORK (PLAN REVIEW ONLY)

SEVERT E-77755

202 **W**

Progress Dates 04-28-2023 Permit

Revisions

Checked By: SSS

Drawn by: RPG



TEAMWORK • COLLABORATION SHARED SUCCESS 515 Monmouth Street, Suite 204 Newport, KY 41071 (859) 261-0585 MEP Consulting Services, Inc. in OH

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80

Job No: 22042 8/10/2022

STEEL 2-WAY REGISTER, MS DAMPER,

1/3" FIN SPACING

Z:\∼Project Directories\9700–9799\9757 – Findlay Flats Findlay Parkside (Willkommen ? Phase II)\∼Construction Documents\∼Phase 2 (3 Buildings)\1807 VINE\XREF-ART.dw THESE DRAWINGS AND SPECIFICATIONS ARE NOT AUTHORIZED TO BE USED AS CONTRACT DOCUMENTS. THESE DRAWINGS HAVE BEEN PREP\ TO DETERMINE CODE COMPLIANCE. THE INSTALLING CONTRACTOR IS RESPONSIBLE TO ENSURE THAT MEANS, METHODS, AND MATERIALS USI GENERAL CONTRACTOR, ETC.

18x10

16x8

EBS - RESIDENTIAL DIFFUSER, GRILLE, AND REGISTER SCHEDULE					
CALLOUT	DESCRIPTION	FACE SIZE (IN)	INLET SIZE (IN)	MODEL	NOTE 1
DTG-1	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	18x12	16x10	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
DTG-1C	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	18x12	16x10	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
EVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED EXHAUST VENT.	6x7	4Ø	FAMCO SDWVP	BACKDRAFT DAMPER/ANGLED HOOD. 1/4 INCH INSECT SCREEN.
EVH-6	28 GAUGE GALVANIZED STEEL. PRE-PAINTED EXHAUST VENT.	8x9	6Ø	FAMCO SDWVP	BACKDRAFT DAMPER/ANGLED HOOD. 1/4 INCH INSECT SCREEN.
FR-5	FLOOR REGISTER, ALL-STEEL CONSTRUCTION, 75% FREE AREA, TOE-OPERATED VALVE CONTROL	12x8	10x6	HART AND COOLEY/ 210	GOLDEN SAND ENAMEL FINISH
FRG-3	RETURN AIR FILTER GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	32x14	30x12	HART AND COOLEY/ 265	GOLDEN SAND ENAMEL FINISH
IVH-6	28 GAUGE GALVANIZED STEEL. PRE-PAINTED INTAKE VENT.	8x9	6Ø	FAMCO SWVP	ANGLED HOOD.1/4 INCH INSECT SCREEN.
RG-8	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	22x16	20x14	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
RR-1	STEEL RETURN GRILLE, 3/4" BLADE SPACING, 35 DEGREE DEFLECTION, BLADES PARALLEL TO LONG DIMENSION	8x8	6x6	TITUS 350RL	STEEL OPPOSED-BLADE DAMPER OPERABLE FROM THE FACE OF THE GRILLE.
SDG1W-1	ALUMINUM SINGLE DEFLECTION SPIRAL DIFFUSER	12x5	10x3	HART AND COOLEY/ SV	ADJUSTABLE DAMPER, BRIGHT WHITE FINISH
SDG2W-3	ALUMINUM DOUBLE DEFLECTION SPIRAL DIFFUSER	14x6	12x4	HART AND COOLEY/ SVH	ADJUSTABLE DAMPER, BRIGHT WHITE FINISH
SR1W-1C	STEEL 1-WAY REGISTER, PLATE DAMPER, 1/3" FIN SPACING	10x6	8x4	HART AND COOLEY/ 651	ADJUSTABLE PLATE DAMPER, BRIGHT WHITE FINISH
SR1W-4	STEEL 1-WAY REGISTER, PLATE DAMPER, 1/3" FIN SPACING	12x8	10x6	HART AND COOLEY/ 651	ADJUSTABLE PLATE DAMPER, BRIGHT WHITE FINISH
SR1W-5	STEEL 1-WAY REGISTER, PLATE DAMPER, 1/3" FIN SPACING	14x8	12x6	HART AND COOLEY/ 651	ADJUSTABLE PLATE DAMPER, BRIGHT WHITE FINISH
SR1WS-1	STEEL 1-WAY REGISTER, MS DAMPER, 1/2" FIN SPACING	10x8	8x6	HART AND COOLEY/ 681	ADJUSTABLE DAMPER, SIDE DEFLECTION, BRIGHT WHITE FINISH
SR1WS-3	STEEL 1-WAY REGISTER, MS DAMPER, 1/2" FIN SPACING	18x8	16x6	HART AND COOLEY/ 681	ADJUSTABLE DAMPER, SIDE DEFLECTION, BRIGHT WHITE FINISH
SR2W-2	STEEL 2-WAY REGISTER, MS DAMPER, 1/3" FIN SPACING	12x6	10x4	HART AND COOLEY/ 661	ADJUSTABLE DAMPER IN FACE, BRIGHT WHITE FINISH

HART AND COOLEY/ 661

ADJUSTABLE DAMPER IN FACE, BRIGHT

I-BEDROOM APARTMENT

STAIRHALL 200

WHITE FINISH

★ KEYED SHEET NOTES

- ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOOR DRAIN IN MECHANICAL CLOSET. SLOPE PIPE A MINIMUM OF 1/8 " PER FOOT AWAY FROM UNIT. ROUTE LINE SET FROM OUTDOOR UNIT TO INDOOR AIR HANDLER. ALL PIPING SHALL BE CONCEALED IN FINISHED AREA. SIZE PER MANUFACTURES RECOMMENDATIONS.
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- ALL BASEMENTS SHALL BE VENTILATED AS STORAGE/WAREHOUSE SPACE IN ACCORDANCE WITH TABLE 403.3 OF THE 2017 OHIO MECHANICAL CODE AT A RATE OF 0.06 CFM PER SQUARE FOOT. PROVIDE NEW FAN IN BASEMENT FOR
- CODE MINIMUM OSA LISTED ABOVE. FRESH AIR INTAKE THRU WALL TO WALL CAP.
- UNDERCUT DOOR 1" ABOVE FINISHED FLOOR FOR RETURN/ MAKE UP AIR. 8. ROUTE EXHAUST TO EXTERIOR WALL. INSTALL A LOUVERED VENT. SEE ARCHITECT BEFORE PENETRATION FOR EXACT LOCATION AND COLOR COORDINATION. ALL EXHAUST SHALL MEET THE FOLLOWING REQUIREMENTS.
- 8.1. 3' FROM PROPERTY LINE. 8.2. 3' FROM OPERABLE OPENINGS INTO BUILDING.
- 8.3 10' FROM MECHANICAL AIR INTAKE
- 9. DUCT EXHAUST UP THROUGH ROOF WITH RAIN-PROOF CAP. 10. 4" EXHAUST DUCT TO BE ROUTED DIRECTLY TO ROOF, AS ALLOWED PER 717.6.1 EXCEPTION. DUCT MUST BE MINIMUM 26 GA. AND BE CONTAINED
- WITHIN WALL CAVITY FOR FULL LENGTH. FIRE CAULK AROUND ALL PENETRATIONS. REFER TO DETAIL. 1. DUCTED RETURN BETWEEN TRANSFER GRILLES TO AVOID EXPOSED WALL
- 12. ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOOR DRAIN IN BASEMENT. SLOPE PIPE A MINIMUM OF 1/8 " PER FOOT AWAY FROM UNIT. PROVIDE CONDENSATE PUMP AS REQUIRED.
- 13. MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL LINE-SET COVERS FOR ALL EXPOSED REFRIGERANT PIPING AND CONDENSATE PIPING.
- 14. DUCTED RETURN SLEEVE TO AVOID EXPOSED WALL CAVITY. 15. ROUTE EXHAUST DUCT UP IN JOIST POCKET. RATING SHALL BE MAINTAINED AROUND JOIST TO PREVENT FIRE DAMPER. REFER TO ARCHITECTURAL PLANS FOR DETAILS.

MECHANICAL SCOPE OF WORK (PLAN REVIEW ONLY)

MECHANICAL SCOPE OF WORK IS TO PROVIDE NEW HVAC EQUIPMENT TO RESIDENTIAL AND COMMERCIAL SPACES. MECHANICAL CONTRACTOR SHALL REFERENCE ALL DISCIPLINE DRAWING, ETC. TO REVEAL FULL SCOPE OF WORK. REFER TO MECHANICAL SPECIFICATIONS FOR ADDITIONAL DETAILS.

HVAC DESIGN CONDITIONS

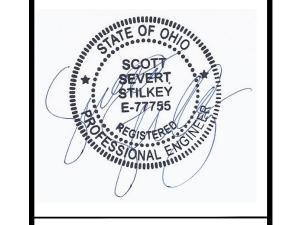
COMMERCIAL		RESIDENTIAL	
		COOLING OUTDOOR: 93 DB / 75 WB	HEATING OUTDOOR: 0 D
INDOOR: 72	INDOOR: 70	INDOOR: 75	INDOOR: 70

GENERAL NOTES

- A. FOR FULL SCHEDULES, SPECIFICATIONS, AND COMPLETE LISTING SEE DETAIL
- B. COORDINATE ROUTING OF ALL WORK WITH OTHER TRADES.
- C. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER CONNECTIONS TO ALL MECHANICAL EQUIPMENT.
- D. INSTALL ALL EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. MAINTAIN ALL CODE RECOMMENDED CLEARANCES FOR ACCESS AND MAINTENANCE.
- E. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS, AND FINAL CEILING DIFFUSER LOCATIONS.
- F. PROVIDE BACKDRAFT DAMPERS FOR ALL EXHAUST SYSTEMS AND EITHER LOUVER, BRICK VENT, OR CAPS AT ALL EXTERIOR BUILDING PENETRATIONS.
- G. IN DWELLING UNITS, ROUTE ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ABOVE DROP CEILING OR IN BULKHEADS. COORDINATE ROUTING WITH ARCHITECTURAL DRAWINGS. DUCTS SHALL BE RUN BELOW THE RATED
- H. ROUTE ALL AIR CONDITIONER CONDENSATE TO NEARBY FLOOR DRAIN. PROVIDE MINIMUM SLOPE OF 1/8 " PER FOOT. SIZE CONDENSATE PER SECTION 307.2.2 OF THE OHIO MECHANICAL CODE.
- MOUNT THERMOSTATS 60" ABOVE FINISHED FLOOR. MOUNT THERMOSTATS IN ADA UNITS 40" ABOVE FINISHED FLOOR.
- . ANY EQUIPMENT THAT IS SUBSTITUTED SHALL FIT IN THE SPACE PROVIDED WITH ADEQUATE ROOM FOR SERVICING, INCLUDING SUBSTITUTE EQUIPMENT NAMED IN THE SPECIFICATIONS. SUBMIT A 1/4" SCALE DRAWING OF ALL EQUIPMENT SUBSTITUTED FOR APPROVAL PRIOR TO INSTALLATION, INCLUDING. BUT NOT LIMITED TO, STRUCTURAL AND ARCHITECTURAL IMPACT, CLEARANCE REQUIREMENTS AND UTILITY REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE ALL NEW ELECTRICAL AND PLUMBING REQUIREMENTS WITH THE ELECTRICAL AND PLUMBING
- K. MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABLED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.
- J. THE FOLLOWING GUIDELINES MUST BE FOLLOWED FOR THE DOMESTIC DRYER
- J.A. EXHAUST DUCTS SHALL HAVE A SMOOTH INTERIOR FINISH AND BE CONSTRUCTED OF METAL A MINIMUM OF 28 GAGE.
- J.B. DUCT SIZE SHALL BE 4 INCHES NOMINAL DIAMETER. J.C. DUCTS SHALL BE SUPPORTED AT 4-FOOT INTERVALS AND SECURED IN PLACE. THE INSERT END OF THE DUCT SHALL EXTEND INTO THE ADJOINING
- DUCT OR FITTING IN THE DIRECTION OF AIRFLOW. J.D. DUCTS SHALL NOT BE JOINED WITH SCREWS OF SIMILAR FASTENERS THAT
- PROTRUDE MORE THAN $\frac{1}{8}$ INCH INTO THE INSIDE OF THE DUCT. J.E. PROTECTIVE SHIELD PLATES SHALL BE PLACED WHERE NAILS OR SCREWS FROM FINISH OR OTHER WORK ARE LIKELY TO PENETRATE THE CLOTHES DRYER EXHAUST DUCT. SHIELD PLATES SHALL BE PLACED ON THE FINISHED FACE OF ALL FRAMING MEMBERS WHERE THERE IS LESS THAN 1-1/4 INCHES BETWEEN THE DUCT AND THE FINISHED FACE OF THE FRAMING MEMBER. SHIELD PLATES SHALL BE CONSTRUCTED OF STEEL, HAVE A THICKNESS OF 0.062 INCHES, AND EXTEND NOT LESS THAN 2 INCHES ABOVE SOLE PLATES AND BELOW TOP PLATES.
- TRANSITION DUCTS USED TO CONNECT THE DRYER TO THE EXHAUST DUCT SYSTEM SHALL BE A SINGLE LENGTH THAT IS LISTED AND LABELED IN ACCORDANCE WITH UL 2158A. TRANSITION DUCTS SHALL BE NOT GREATER THAN 8 FEET IN LENGTH AND SHALL NOT BE CONCEALED WITHIN CONSTRUCTION.
- J.G. PROVIDE DRYER WALL BOX EQUAL TO DUNDAS JAFINE MODEL DRB4XZW NEAR DRYER.
- J.H. PROVIDE A PERMANENT LABEL OR TAG (EQUAL TO DRYERPLACARD) INDICATING ACTUAL EQUIVALENT LENGTH OF EXHAUST DUCT. LENGTH SHALL INCLUDE 5' FOR 90 . LABEL/TAG MUST BE WITHIN 6' OF DRYER EXHAUST CONNECTION. DRYER EXHAUST DUCT FITTING EQUIVALENT LENGTH SHALL BE 2'-6" FOR A RADIUS MITERED 45-DEGREE ELBOW AND 5 FEET FOR A RADIUS MITERED 90-DEGREE ELBOW.

SYMBOLS L	EGEND - HVAC					
Ŧ	THERMOSTAT					
\boxtimes	CEILING DIFFUSER					
→	SIDE WALL GRILL					
- 4	RETURN WALL GRILL					
←√ −	AIR FLOW DIRECTION					
14x10	DUCTWORK					
	TYPICAL SUPPLY DUCT DN					
	TYPICAL RETURN DUCT DN					
X	TYPICAL EXHAUST DUCT					
(1,4	TURNING VANES					
\boxtimes ~~	FLEXIBLE DUCT, 8'-0" LONG MAX.					
<u> </u>	TYPICAL ROUND DUCT DN					
	ROUND DUCT UP					
	MVD MANUAL VOLUME DAMPER					
	DROPPED CEILING/SOFFIT					





Progress Dates 04-28-2023 Permit

Checked By: SSS Drawn by: RPG



TEAMWORK • COLLABORATION SHARED SUCCESS 515 Monmouth Street, Suite 204 Newport, KY 41071 (859) 261-0585 MEP Consulting Services, Inc. in OH

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8

Job No: 22042

STEEL 2-WAY REGISTER, MS DAMPER,

STEEL 2-WAY REGISTER, MS DAMPER,

1/3" FIN SPACING

1/3" FIN SPACING

111

12x6

18x10

10x4

16x8

HART AND COOLEY/ 661

HART AND COOLEY/ 661

ADJUSTABLE DAMPER IN FACE, BRIGHT

ADJUSTABLE DAMPER IN FACE, BRIGHT

WHITE FINISH

WHITE FINISH

300

CALLOUT	DESCRIPTION	FACE SIZE (IN)	INLET SIZE (IN)	MODEL	NOTE 1
DTG-1	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	18x12	16x10	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
DTG-1C	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	18x12	16x10	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
EVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED EXHAUST VENT.	6x7	4Ø	FAMCO SDWVP	BACKDRAFT DAMPER/ANGLED HOOD. 1/4 INCH INSECT SCREEN.
EVH-6	28 GAUGE GALVANIZED STEEL. PRE-PAINTED EXHAUST VENT.	8x9	6Ø	FAMCO SDWVP	BACKDRAFT DAMPER/ANGLED HOOD. 1/4 INCH INSECT SCREEN.
FR-5	FLOOR REGISTER, ALL-STEEL CONSTRUCTION, 75% FREE AREA, TOE-OPERATED VALVE CONTROL	12x8	10x6	HART AND COOLEY/ 210	GOLDEN SAND ENAMEL FINISH
FRG-3	RETURN AIR FILTER GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	32x14	30x12	HART AND COOLEY/ 265	GOLDEN SAND ENAMEL FINISH
IVH-6	28 GAUGE GALVANIZED STEEL. PRE-PAINTED INTAKE VENT.	8x9	6Ø	FAMCO SWVP	ANGLED HOOD.1/4 INCH INSECT SCREEN.
RG-8	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	22x16	20x14	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
RR-1	STEEL RETURN GRILLE, 3/4" BLADE SPACING, 35 DEGREE DEFLECTION, BLADES PARALLEL TO LONG DIMENSION	8x8	6x6	TITUS 350RL	STEEL OPPOSED-BLADE DAMPER OPERABLE FROM THE FACE OF THE GRILLE.
SDG1W-1	ALUMINUM SINGLE DEFLECTION SPIRAL DIFFUSER	12x5	10x3	HART AND COOLEY/ SV	ADJUSTABLE DAMPER, BRIGHT WHITE FINISH
SDG2W-3	ALUMINUM DOUBLE DEFLECTION SPIRAL DIFFUSER	14x6	12x4	HART AND COOLEY/ SVH	ADJUSTABLE DAMPER, BRIGHT WHITE FINISH
SR1W-1C	STEEL 1-WAY REGISTER, PLATE DAMPER, 1/3" FIN SPACING	10x6	8x4	HART AND COOLEY/ 651	ADJUSTABLE PLATE DAMPER, BRIGHT WHITE FINISH
SR1W-4	STEEL 1-WAY REGISTER, PLATE DAMPER, 1/3" FIN SPACING	12x8	10x6	HART AND COOLEY/ 651	ADJUSTABLE PLATE DAMPER, BRIGHT WHITE FINISH
SR1W-5	STEEL 1-WAY REGISTER, PLATE DAMPER, 1/3" FIN SPACING	14x8	12x6	HART AND COOLEY/ 651	ADJUSTABLE PLATE DAMPER, BRIGHT WHITE FINISH
SR1WS-1	STEEL 1-WAY REGISTER, MS DAMPER, 1/2" FIN SPACING	10x8	8x6	HART AND COOLEY/ 681	ADJUSTABLE DAMPER, SIDE DEFLECTION, BRIGHT WHITE FINISH
SR1WS-3	STEEL 1-WAY REGISTER, MS DAMPER, 1/2" FIN SPACING	18x8	16x6	HART AND COOLEY/ 681	ADJUSTABLE DAMPER, SIDE DEFLECTION, BRIGHT WHITE FINISH
	+	+	1		

★ KEYED SHEET NOTES

- ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOOR DRAIN IN MECHANICAL CLOSET. SLOPE PIPE A MINIMUM OF 1/8 " PER FOOT AWAY FROM UNIT. ROUTE LINE SET FROM OUTDOOR UNIT TO INDOOR AIR HANDLER. ALL PIPING SHALL BE CONCEALED IN FINISHED AREA. SIZE PER MANUFACTURES RECOMMENDATIONS.
- RETURN DUCT UP TO FIRST FLOOR. SUPPLY DUCT UP TO FIRST FLOOR.
- ALL BASEMENTS SHALL BE VENTILATED AS STORAGE/WAREHOUSE SPACE IN ACCORDANCE WITH TABLE 403.3 OF THE 2017 OHIO MECHANICAL CODE AT A RATE OF 0.06 CFM PER SQUARE FOOT. PROVIDE NEW FAN IN BASEMENT FOR
- CODE MINIMUM OSA LISTED ABOVE. FRESH AIR INTAKE THRU WALL TO WALL CAP. UNDERCUT DOOR 1" ABOVE FINISHED FLOOR FOR RETURN/ MAKE UP AIR.
- 8. ROUTE EXHAUST TO EXTERIOR WALL. INSTALL A LOUVERED VENT. SEE ARCHITECT BEFORE PENETRATION FOR EXACT LOCATION AND COLOR COORDINATION. ALL EXHAUST SHALL MEET THE FOLLOWING REQUIREMENTS.
- 8.1. 3' FROM PROPERTY LINE. 8.2. 3' FROM OPERABLE OPENINGS INTO BUILDING.
- 8.3 10' FROM MECHANICAL AIR INTAKE
- 9. DUCT EXHAUST UP THROUGH ROOF WITH RAIN-PROOF CAP. 10. 4" EXHAUST DUCT TO BE ROUTED DIRECTLY TO ROOF, AS ALLOWED PER 717.6.1 EXCEPTION. DUCT MUST BE MINIMUM 26 GA. AND BE CONTAINED
- WITHIN WALL CAVITY FOR FULL LENGTH. FIRE CAULK AROUND ALL PENETRATIONS. REFER TO DETAIL. 1. DUCTED RETURN BETWEEN TRANSFER GRILLES TO AVOID EXPOSED WALL
- 12. ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOOR DRAIN IN BASEMENT. SLOPE PIPE A MINIMUM OF 1/8 " PER FOOT AWAY FROM UNIT. PROVIDE CONDENSATE
- PUMP AS REQUIRED. 13. MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL LINE-SET COVERS FOR ALL EXPOSED REFRIGERANT PIPING AND CONDENSATE PIPING.
- 14. DUCTED RETURN SLEEVE TO AVOID EXPOSED WALL CAVITY. 15. ROUTE EXHAUST DUCT UP IN JOIST POCKET. RATING SHALL BE MAINTAINED AROUND JOIST TO PREVENT FIRE DAMPER. REFER TO ARCHITECTURAL PLANS FOR DETAILS.

MECHANICAL SCOPE OF WORK (PLAN REVIEW ONLY)

MECHANICAL SCOPE OF WORK IS TO PROVIDE NEW HVAC EQUIPMENT TO RESIDENTIAL AND COMMERCIAL SPACES. MECHANICAL CONTRACTOR SHALL REFERENCE ALL DISCIPLINE DRAWING, ETC. TO REVEAL FULL SCOPE OF WORK.

HVAC DESIGN CONDITIONS

- 1	COMMERCIAL	<u>.</u>	RESIDENTIAL	
	COOLING OUTDOOR: 93 DB / 75 WB INDOOR: 72	HEATING OUTDOOR: 0 DB INDOOR: 70	COOLING OUTDOOR: 93 DB / 75 WB INDOOR: 75	HEATING OUTDOOR: 0 INDOOR: 70
	OUTDOOR: 93 DB / 75 WB	OUTDOOR: 0 DB	OUTDOOR: 93 DB / 75	5 WB

GENERAL NOTES

- A. FOR FULL SCHEDULES, SPECIFICATIONS, AND COMPLETE LISTING SEE DETAIL
- B. COORDINATE ROUTING OF ALL WORK WITH OTHER TRADES.
- C. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER CONNECTIONS TO ALL MECHANICAL EQUIPMENT.
- D. INSTALL ALL EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. MAINTAIN ALL CODE RECOMMENDED CLEARANCES FOR ACCESS AND MAINTENANCE.
- E. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS, AND FINAL CEILING DIFFUSER LOCATIONS.
- F. PROVIDE BACKDRAFT DAMPERS FOR ALL EXHAUST SYSTEMS AND EITHER LOUVER, BRICK VENT, OR CAPS AT ALL EXTERIOR BUILDING PENETRATIONS.
- G. IN DWELLING UNITS, ROUTE ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ABOVE DROP CEILING OR IN BULKHEADS. COORDINATE ROUTING WITH ARCHITECTURAL DRAWINGS. DUCTS SHALL BE RUN BELOW THE RATED
- H. ROUTE ALL AIR CONDITIONER CONDENSATE TO NEARBY FLOOR DRAIN. PROVIDE MINIMUM SLOPE OF 1/8 " PER FOOT. SIZE CONDENSATE PER SECTION 307.2.2 OF THE OHIO MECHANICAL CODE.
- MOUNT THERMOSTATS 60" ABOVE FINISHED FLOOR. MOUNT THERMOSTATS IN ADA UNITS 40" ABOVE FINISHED FLOOR.
- . ANY EQUIPMENT THAT IS SUBSTITUTED SHALL FIT IN THE SPACE PROVIDED WITH ADEQUATE ROOM FOR SERVICING, INCLUDING SUBSTITUTE EQUIPMENT NAMED IN THE SPECIFICATIONS. SUBMIT A 1/4" SCALE DRAWING OF ALL EQUIPMENT SUBSTITUTED FOR APPROVAL PRIOR TO INSTALLATION, INCLUDING. BUT NOT LIMITED TO, STRUCTURAL AND ARCHITECTURAL IMPACT, CLEARANCE REQUIREMENTS AND UTILITY REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE ALL NEW ELECTRICAL AND PLUMBING REQUIREMENTS WITH THE ELECTRICAL AND PLUMBING
- K. MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABLED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.
- . THE FOLLOWING GUIDELINES MUST BE FOLLOWED FOR THE DOMESTIC DRYER
- J.A. EXHAUST DUCTS SHALL HAVE A SMOOTH INTERIOR FINISH AND BE CONSTRUCTED OF METAL A MINIMUM OF 28 GAGE.
- J.B. DUCT SIZE SHALL BE 4 INCHES NOMINAL DIAMETER. J.C. DUCTS SHALL BE SUPPORTED AT 4-FOOT INTERVALS AND SECURED IN
- PLACE. THE INSERT END OF THE DUCT SHALL EXTEND INTO THE ADJOINING DUCT OR FITTING IN THE DIRECTION OF AIRFLOW.
- J.D. DUCTS SHALL NOT BE JOINED WITH SCREWS OF SIMILAR FASTENERS THAT PROTRUDE MORE THAN $\frac{1}{8}$ INCH INTO THE INSIDE OF THE DUCT.
- J.E. PROTECTIVE SHIELD PLATES SHALL BE PLACED WHERE NAILS OR SCREWS FROM FINISH OR OTHER WORK ARE LIKELY TO PENETRATE THE CLOTHES DRYER EXHAUST DUCT. SHIELD PLATES SHALL BE PLACED ON THE FINISHED FACE OF ALL FRAMING MEMBERS WHERE THERE IS LESS THAN 1-1/4 INCHES BETWEEN THE DUCT AND THE FINISHED FACE OF THE FRAMING MEMBER. SHIELD PLATES SHALL BE CONSTRUCTED OF STEEL, HAVE A THICKNESS OF 0.062 INCHES, AND EXTEND NOT LESS THAN 2 INCHES ABOVE SOLE PLATES AND BELOW TOP PLATES.
- TRANSITION DUCTS USED TO CONNECT THE DRYER TO THE EXHAUST DUCT SYSTEM SHALL BE A SINGLE LENGTH THAT IS LISTED AND LABELED IN ACCORDANCE WITH UL 2158A. TRANSITION DUCTS SHALL BE NOT GREATER THAN 8 FEET IN LENGTH AND SHALL NOT BE CONCEALED WITHIN CONSTRUCTION.
- J.G. PROVIDE DRYER WALL BOX EQUAL TO DUNDAS JAFINE MODEL DRB4XZW NEAR DRYER.
- J.H. PROVIDE A PERMANENT LABEL OR TAG (EQUAL TO DRYERPLACARD) INDICATING ACTUAL EQUIVALENT LENGTH OF EXHAUST DUCT. LENGTH SHALL INCLUDE 5' FOR 90 . LABEL/TAG MUST BE WITHIN 6' OF DRYER EXHAUST CONNECTION. DRYER EXHAUST DUCT FITTING EQUIVALENT LENGTH SHALL BE 2'-6" FOR A RADIUS MITERED 45-DEGREE ELBOW AND 5 FEET FOR A RADIUS MITERED 90-DEGREE ELBOW.

SYMBOLS L	EGEND — HVAC			
T	THERMOSTAT			
\boxtimes	CEILING DIFFUSER			
→	SIDE WALL GRILL			
« \-	RETURN WALL GRILL			
← √—	AIR FLOW DIRECTION			
14x10	DUCTWORK			
\boxtimes	TYPICAL SUPPLY DUCT DN			
	TYPICAL RETURN DUCT DN			
N.	TYPICAL EXHAUST DUCT			
ررد	TURNING VANES			
2 ~~~	FLEXIBLE DUCT, 8'-0" LONG MAX.			
<u> </u>	TYPICAL ROUND DUCT DN			
	ROUND DUCT UP			
	MVD MANUAL VOLUME DAMPER			
	DROPPED CEILING/SOFFIT			



REFER TO MECHANICAL SPECIFICATIONS FOR ADDITIONAL DETAILS.

SEVERT E-77755

> Progress Dates 04-28-2023 Permit

Checked By: SSS

Drawn by: RPG



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Job No: 22042

CALLOUT	DESCRIPTION	FACE SIZE	INLET SIZE	MODEL	NOTE 1	ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOC CLOSET. SLOPE PIPE A MINIMUM OF 1/8" PER I
	5250rtii 1167t	(IN)	(IN)	6522		 ROUTE LINE SET FROM OUTDOOR UNIT TO INDO SHALL BE CONCEALED IN FINISHED AREA. SIZE RECOMMENDATIONS. RETURN DUCT UP TO FIRST FLOOR. SUPPLY DUCT UP TO FIRST FLOOR. ALL BASEMENTS SHALL BE VENTILATED AS STO ACCORDANCE WITH TABLE 403.3 OF THE 2017 OR RATE OF 0.06 CFM PER SQUARE FOOT. PROVID CODE MINIMUM OSA LISTED ABOVE. FRESH AIR INTAKE THRU WALL TO WALL CAP. UNDERCUT DOOR 1" ABOVE FINISHED FLOOR FROUTE EXHAUST TO EXTERIOR WALL. INSTALL ARCHITECT BEFORE PENETRATION FOR EXACT COORDINATION. ALL EXHAUST SHALL MEET THE 8.1. 3' FROM PROPERTY LINE.
DTG-1	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	18x12	16x10	HART AND COOLEY/ 650	BRIGHT WHITE FINISH	
DTG-1C	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	18x12	16x10	HART AND COOLEY/ 650	BRIGHT WHITE FINISH	
EVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED EXHAUST VENT.	6x7	4Ø	FAMCO SDWVP	BACKDRAFT DAMPER/ANGLED HOOD. 1/4 INCH INSECT SCREEN.	
EVH-6	28 GAUGE GALVANIZED STEEL. PRE-PAINTED EXHAUST VENT.	8x9	6Ø	FAMCO SDWVP	BACKDRAFT DAMPER/ANGLED HOOD. 1/4 INCH INSECT SCREEN.	8.2. 3' FROM OPERABLE OPENINGS INTO BUILD 8.3 10' FROM MECHANICAL AIR INTAKE 9. DUCT EXHAUST UP THROUGH ROOF WITH RAIN 10. 4" EXHAUST DUCT TO BE ROUTED DIRECTLY TO
FR-5	FLOOR REGISTER, ALL-STEEL CONSTRUCTION, 75% FREE AREA, TOE-OPERATED VALVE CONTROL	12x8	10x6	HART AND COOLEY/ 210	GOLDEN SAND ENAMEL FINISH	 4" EXHAUST DUCT TO BE ROUTED DIRECTLY TO 1717.6.1 EXCEPTION. DUCT MUST BE MINIMUM 26 0 WITHIN WALL CAVITY FOR FULL LENGTH. FIRE CAPENETRATIONS, REFER TO DETAIL. DUCTED RETURN BETWEEN TRANSFER GRILLES CAVITY. ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOOR PIPE A MINIMUM OF 1/8" PER FOOT AWAY FROM PUMP AS REQUIRED. MECHANICAL CONTRACTOR TO PROVIDE AND IN ALL EXPOSED REFRIGERANT PIPING AND CONDE IDUCTED RETURN SLEEVE TO AVOID EXPOSED WIS. ROUTE EXHAUST DUCT UP IN JOIST POCKET. RAY AROUND JOIST TO PREVENT FIRE DAMPER. REFE FOR DETAILS.
FRG-3	RETURN AIR FILTER GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	32x14	30x12	HART AND COOLEY/ 265	GOLDEN SAND ENAMEL FINISH	
IVH-6	28 GAUGE GALVANIZED STEEL. PRE-PAINTED INTAKE VENT.	8x9	6Ø	FAMCO SWVP	ANGLED HOOD.1/4 INCH INSECT SCREEN.	
RG-8	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	22x16	20x14	HART AND COOLEY/ 650	BRIGHT WHITE FINISH	
RR-1	STEEL RETURN GRILLE, 3/4" BLADE SPACING, 35 DEGREE DEFLECTION, BLADES PARALLEL TO LONG DIMENSION	8x8	6x6	TITUS 350RL	STEEL OPPOSED-BLADE DAMPER OPERABLE FROM THE FACE OF THE GRILLE.	
SDG1W-1	ALUMINUM SINGLE DEFLECTION SPIRAL DIFFUSER	12x5	10x3	HART AND COOLEY/ SV	ADJUSTABLE DAMPER, BRIGHT WHITE FINISH	
SDG2W-3	ALUMINUM DOUBLE DEFLECTION SPIRAL DIFFUSER	14x6	12x4	HART AND COOLEY/ SVH	ADJUSTABLE DAMPER, BRIGHT WHITE FINISH	
SR1W-1C	STEEL 1-WAY REGISTER, PLATE DAMPER, 1/3" FIN SPACING	10x6	8x4	HART AND COOLEY/ 651	ADJUSTABLE PLATE DAMPER, BRIGHT WHITE FINISH	
SR1W-4	STEEL 1-WAY REGISTER, PLATE DAMPER, 1/3" FIN SPACING	12x8	10x6	HART AND COOLEY/ 651	ADJUSTABLE PLATE DAMPER, BRIGHT WHITE FINISH	
SR1W-5	STEEL 1-WAY REGISTER, PLATE DAMPER, 1/3" FIN SPACING	14x8	12x6	HART AND COOLEY/ 651	ADJUSTABLE PLATE DAMPER, BRIGHT WHITE FINISH	
SR1WS-1	STEEL 1-WAY REGISTER, MS DAMPER, 1/2" FIN SPACING	10x8	8x6	HART AND COOLEY/ 681	ADJUSTABLE DAMPER, SIDE DEFLECTION, BRIGHT WHITE FINISH	
SR1WS-3	STEEL 1-WAY REGISTER, MS DAMPER, 1/2" FIN SPACING	18x8	16x6	HART AND COOLEY/ 681	ADJUSTABLE DAMPER, SIDE DEFLECTION, BRIGHT WHITE FINISH	
SR2W-2	STEEL 2-WAY REGISTER, MS DAMPER, 1/3" FIN SPACING	12x6	10x4	HART AND COOLEY/ 661	ADJUSTABLE DAMPER IN FACE, BRIGHT WHITE FINISH	
SR2W-7	STEEL 2-WAY REGISTER, MS DAMPER, 1/3" FIN SPACING	18x10	16x8	HART AND COOLEY/ 661	ADJUSTABLE DAMPER IN FACE, BRIGHT WHITE FINISH	

| 1/3" FIN SPACING | WHITE FINISH DSO 9 9 UNOCCUPIED LANDLORD ACCESS ONLY 402 UNOCCUPIED LANDLORD ACCESS ONLY 401 STAIRHALL (400)

Z:\∼Project Directories\9700–9799\9757 – Findlay Flats Findlay Parkside (Willkommen ? Phase II)\∼Construction Documents\∼Phase 2 (3 Buildings)\1807 VINE\XREF-ART.dw THESE DRAWINGS AND SPECIFICATIONS ARE NOT AUTHORIZED TO BE USED AS CONTRACT DOCUMENTS. THESE DRAWINGS HAVE BEEN PREP≀ TO DETERMINE CODE COMPLIANCE. THE INSTALLING CONTRACTOR IS RESPONSIBLE TO ENSURE THAT MEANS, METHODS, AND MATERIALS USI GENERAL CONTRACTOR, ETC.

1. ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOOR DRAIN IN MECHANICAL CLOSET. SLOPE PIPE A MINIMUM OF 1/8 " PER FOOT AWAY FROM UNIT. 2. ROUTE LINE SET FROM OUTDOOR UNIT TO INDOOR AIR HANDLER. ALL PIPING SHALL BE CONCEALED IN FINISHED AREA. SIZE PER MANUFACTURES RECOMMENDATIONS.

5. ALL BASEMENTS SHALL BE VENTILATED AS STORAGE/WAREHOUSE SPACE IN ACCORDANCE WITH TABLE 403.3 OF THE 2017 OHIO MECHANICAL CODE AT A RATE OF 0.06 CFM PER SQUARE FOOT. PROVIDE NEW FAN IN BASEMENT FOR CODE MINIMUM OSA LISTED ABOVE.

7. UNDERCUT DOOR 1" ABOVE FINISHED FLOOR FOR RETURN/ MAKE UP AIR. 8. ROUTE EXHAUST TO EXTERIOR WALL. INSTALL A LOUVERED VENT. SEE ARCHITECT BEFORE PENETRATION FOR EXACT LOCATION AND COLOR COORDINATION. ALL EXHAUST SHALL MEET THE FOLLOWING REQUIREMENTS.

8.3 10' FROM MECHANICAL AIR INTAKE 9. DUCT EXHAUST UP THROUGH ROOF WITH RAIN-PROOF CAP. 10. 4" EXHAUST DUCT TO BE ROUTED DIRECTLY TO ROOF, AS ALLOWED PER 717.6.1 EXCEPTION. DUCT MUST BE MINIMUM 26 GA. AND BE CONTAINED

WITHIN WALL CAVITY FOR FULL LENGTH. FIRE CAULK AROUND ALL PENETRATIONS. REFER TO DETAIL. 11. DUCTED RETURN BETWEEN TRANSFER GRILLES TO AVOID EXPOSED WALL

12. ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOOR DRAIN IN BASEMENT. SLOPE PIPE A MINIMUM OF 1/8 " PER FOOT AWAY FROM UNIT. PROVIDE CONDENSATE PUMP AS REQUIRED.

13. MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL LINE-SET COVERS FOR ALL EXPOSED REFRIGERANT PIPING AND CONDENSATE PIPING. 14. DUCTED RETURN SLEEVE TO AVOID EXPOSED WALL CAVITY.

15. ROUTE EXHAUST DUCT UP IN JOIST POCKET. RATING SHALL BE MAINTAINED AROUND JOIST TO PREVENT FIRE DAMPER. REFER TO ARCHITECTURAL PLANS FOR DETAILS.

MECHANICAL SCOPE OF WORK IS TO PROVIDE NEW HVAC EQUIPMENT TO RESIDENTIAL AND COMMERCIAL SPACES. MECHANICAL CONTRACTOR SHALL REFERENCE ALL DISCIPLINE DRAWING, ETC. TO REVEAL FULL SCOPE OF WORK. REFER TO MECHANICAL SPECIFICATIONS FOR ADDITIONAL DETAILS.

COMMERCIAL		RESIDENTIAL		
COOLING	<u>HEATING</u>	COOLING	<u>HEATING</u>	
OUTDOOR: 93 DB / 75 WB	OUTDOOR: 0 DB	OUTDOOR: 93 DB / 75 WB	OUTDOOR: 0 D	
INDOOR: 72	INDOOR: 70	INDOOR: 75	INDOOR: 70	

A. FOR FULL SCHEDULES, SPECIFICATIONS, AND COMPLETE LISTING SEE DETAIL

B. COORDINATE ROUTING OF ALL WORK WITH OTHER TRADES.

C. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER CONNECTIONS TO

D. INSTALL ALL EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. MAINTAIN ALL CODE RECOMMENDED CLEARANCES FOR ACCESS AND MAINTENANCE.

E. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS, AND FINAL CEILING

DIFFUSER LOCATIONS.

LOUVER, BRICK VENT, OR CAPS AT ALL EXTERIOR BUILDING PENETRATIONS.

ABOVE DROP CEILING OR IN BULKHEADS. COORDINATE ROUTING WITH ARCHITECTURAL DRAWINGS. DUCTS SHALL BE RUN BELOW THE RATED

H. ROUTE ALL AIR CONDITIONER CONDENSATE TO NEARBY FLOOR DRAIN. PROVIDE MINIMUM SLOPE OF 1/8 " PER FOOT. SIZE CONDENSATE PER SECTION 307.2.2 OF THE OHIO MECHANICAL CODE.

MOUNT THERMOSTATS 60" ABOVE FINISHED FLOOR. MOUNT THERMOSTATS IN ADA UNITS 40" ABOVE FINISHED FLOOR.

AND LABLED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.

J.A. EXHAUST DUCTS SHALL HAVE A SMOOTH INTERIOR FINISH AND BE

J.B. DUCT SIZE SHALL BE 4 INCHES NOMINAL DIAMETER.

J.E. PROTECTIVE SHIELD PLATES SHALL BE PLACED WHERE NAILS OR SCREWS FROM FINISH OR OTHER WORK ARE LIKELY TO PENETRATE THE CLOTHES DRYER EXHAUST DUCT.SHIELD PLATES SHALL BE PLACED ON THE FINISHED FACE OF ALL FRAMING MEMBERS WHERE THERE IS LESS THAN 1-1/4 INCHES BETWEEN THE DUCT AND THE FINISHED FACE OF THE FRAMING MEMBER. SHIELD PLATES SHALL BE CONSTRUCTED OF STEEL, HAVE A THICKNESS OF 0.062 INCHES, AND EXTEND NOT LESS THAN 2 INCHES ABOVE SOLE PLATES

J.F. TRANSITION DUCTS USED TO CONNECT THE DRYER TO THE EXHAUST DUCT SYSTEM SHALL BE A SINGLE LENGTH THAT IS LISTED AND LABELED IN ACCORDANCE WITH UL 2158A. TRANSITION DUCTS SHALL BE NOT GREATER THAN 8 FEET IN LENGTH AND SHALL NOT BE CONCEALED WITHIN

CONSTRUCTION. J.G. PROVIDE DRYER WALL BOX EQUAL TO DUNDAS JAFINE MODEL DRB4XZW

SYMBOLS LI	EGEND — HVAC				
T	THERMOSTAT				
\boxtimes	CEILING DIFFUSER				
→	SIDE WALL GRILL				
-	RETURN WALL GRILL				
← √−	AIR FLOW DIRECTION				
14x10	DUCTWORK				
	TYPICAL SUPPLY DUCT DN				
	TYPICAL RETURN DUCT DN				
N N	TYPICAL EXHAUST DUCT				
ردر	TURNING VANES				
	FLEXIBLE DUCT, 8'-0" LONG MAX.				
0	TYPICAL ROUND DUCT DN				
	ROUND DUCT UP				
	MVD MANUAL VOLUME DAMPER				
	DROPPED CEILING/SOFFIT				



MECHANICAL SCOPE OF WORK (PLAN REVIEW ONLY)

GENERAL NOTES

ALL MECHANICAL EQUIPMENT.

F. PROVIDE BACKDRAFT DAMPERS FOR ALL EXHAUST SYSTEMS AND EITHER

G. IN DWELLING UNITS, ROUTE ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK

. ANY EQUIPMENT THAT IS SUBSTITUTED SHALL FIT IN THE SPACE PROVIDED WITH ADEQUATE ROOM FOR SERVICING, INCLUDING SUBSTITUTE EQUIPMENT NAMED IN THE SPECIFICATIONS. SUBMIT A 1/4" SCALE DRAWING OF ALL EQUIPMENT SUBSTITUTED FOR APPROVAL PRIOR TO INSTALLATION, INCLUDING. BUT NOT LIMITED TO, STRUCTURAL AND ARCHITECTURAL IMPACT, CLEARANCE REQUIREMENTS AND UTILITY REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE ALL NEW ELECTRICAL AND PLUMBING REQUIREMENTS WITH THE ELECTRICAL AND PLUMBING

K. MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED

J. THE FOLLOWING GUIDELINES MUST BE FOLLOWED FOR THE DOMESTIC DRYER EXHAUST SYSTEMS.

CONSTRUCTED OF METAL A MINIMUM OF 28 GAGE.

J.C. DUCTS SHALL BE SUPPORTED AT 4-FOOT INTERVALS AND SECURED IN PLACE. THE INSERT END OF THE DUCT SHALL EXTEND INTO THE ADJOINING DUCT OR FITTING IN THE DIRECTION OF AIRFLOW.

J.D. DUCTS SHALL NOT BE JOINED WITH SCREWS OF SIMILAR FASTENERS THAT

PROTRUDE MORE THAN 1 INCH INTO THE INSIDE OF THE DUCT.

AND BELOW TOP PLATES.

NEAR DRYER.

J.H. PROVIDE A PERMANENT LABEL OR TAG (EQUAL TO DRYERPLACARD) INDICATING ACTUAL EQUIVALENT LENGTH OF EXHAUST DUCT. LENGTH SHALL INCLUDE 5' FOR 90 . LABEL/TAG MUST BE WITHIN 6' OF DRYER EXHAUST CONNECTION. DRYER EXHAUST DUCT FITTING EQUIVALENT LENGTH SHALL BE 2'-6" FOR A RADIUS MITERED 45-DEGREE ELBOW AND 5 FEET FOR A RADIUS MITERED 90-DEGREE ELBOW.

SIMPOLS LI	EGEND - HVAC
Ŧ	THERMOSTAT
\boxtimes	CEILING DIFFUSER
→	SIDE WALL GRILL
-\-	RETURN WALL GRILL
← _	AIR FLOW DIRECTION
14x10	DUCTWORK
\boxtimes	TYPICAL SUPPLY DUCT DN
	TYPICAL RETURN DUCT DN
N N	TYPICAL EXHAUST DUCT
ردر	TURNING VANES
	FLEXIBLE DUCT, 8'-0" LONG MAX.
0	TYPICAL ROUND DUCT DN
	ROUND DUCT UP
	MVD MANUAL VOLUME DAMPER
	DROPPED CEILING/SOFFIT

Job No: 22042 8/10/2022

8

STILKEY

E-77755

Progress Dates

Checked By: SSS

ENGINEERED

TEAMWORK • COLLABORATION

SHARED SUCCESS 515 Monmouth Street, Suite 204 Newport, KY 41071 (859) 261-0585

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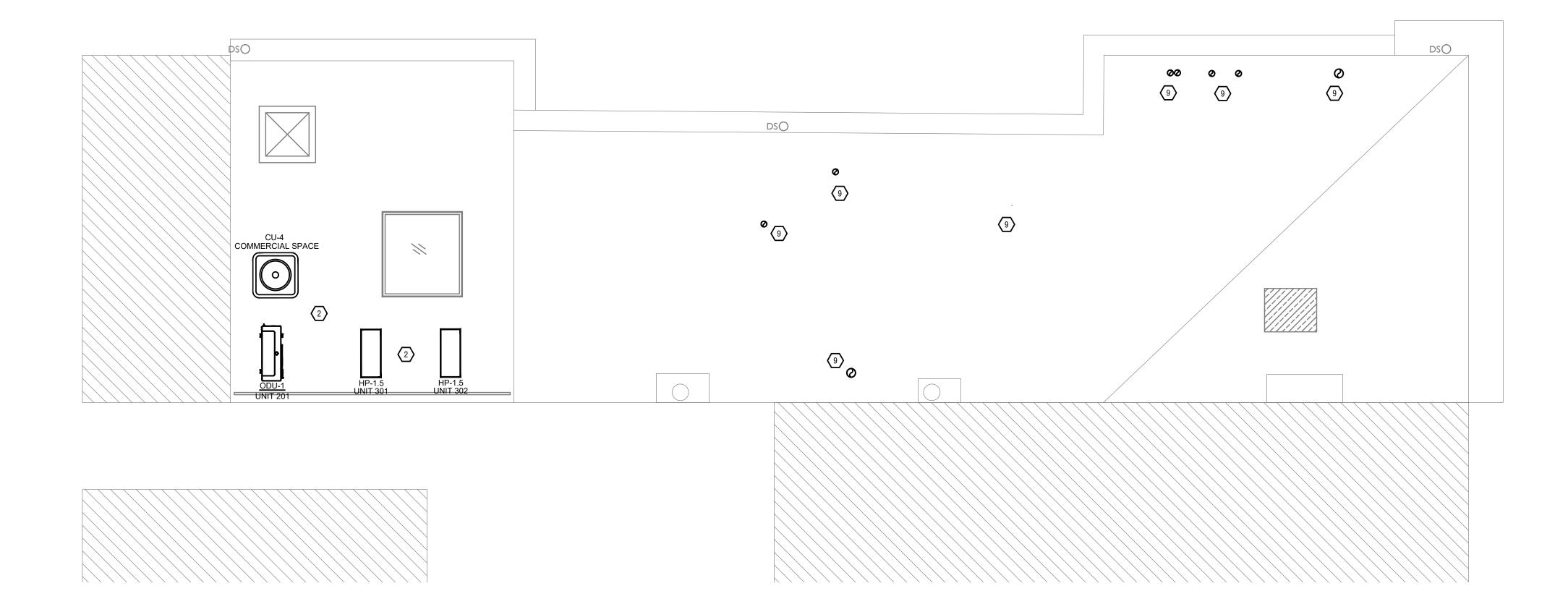
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CALLOUT	DESCRIPTION	FACE SIZE (IN)	INLET SIZE (IN)	MODEL	NOTE 1
DTG-1	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	18x12	16x10	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
DTG-1C	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	18x12	16x10	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
EVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED EXHAUST VENT.	6x7	4Ø	FAMCO SDWVP	BACKDRAFT DAMPER/ANGLED HOOD. 1/4 INCH INSECT SCREEN.
EVH-6	28 GAUGE GALVANIZED STEEL. PRE-PAINTED EXHAUST VENT.	8x9	6Ø	FAMCO SDWVP	BACKDRAFT DAMPER/ANGLED HOOD. 1/4 INCH INSECT SCREEN.
FR-5	FLOOR REGISTER, ALL-STEEL CONSTRUCTION, 75% FREE AREA, TOE-OPERATED VALVE CONTROL	12x8	10x6	HART AND COOLEY/ 210	GOLDEN SAND ENAMEL FINISH
FRG-3	RETURN AIR FILTER GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	32x14	30x12	HART AND COOLEY/ 265	GOLDEN SAND ENAMEL FINISH
IVH-6	28 GAUGE GALVANIZED STEEL. PRE-PAINTED INTAKE VENT.	8x9	6Ø	FAMCO SWVP	ANGLED HOOD.1/4 INCH INSECT SCREEN.
RG-8	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	22x16	20x14	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
RR-1	STEEL RETURN GRILLE, 3/4" BLADE SPACING, 35 DEGREE DEFLECTION, BLADES PARALLEL TO LONG DIMENSION	8x8	6x6	TITUS 350RL	STEEL OPPOSED-BLADE DAMPER OPERABLE FROM THE FACE OF THE GRILLE.
SDG1W-1	ALUMINUM SINGLE DEFLECTION SPIRAL DIFFUSER	12x5	10x3	HART AND COOLEY/ SV	ADJUSTABLE DAMPER, BRIGHT WHITE FINISH
SDG2W-3	ALUMINUM DOUBLE DEFLECTION SPIRAL DIFFUSER	14x6	12x4	HART AND COOLEY/ SVH	ADJUSTABLE DAMPER, BRIGHT WHITE FINISH
SR1W-1C	STEEL 1-WAY REGISTER, PLATE DAMPER, 1/3" FIN SPACING	10x6	8x4	HART AND COOLEY/ 651	ADJUSTABLE PLATE DAMPER, BRIGHT WHITE FINISH
SR1W-4	STEEL 1-WAY REGISTER, PLATE DAMPER, 1/3" FIN SPACING	12x8	10x6	HART AND COOLEY/ 651	ADJUSTABLE PLATE DAMPER, BRIGHT WHITE FINISH
SR1W-5	STEEL 1-WAY REGISTER, PLATE DAMPER, 1/3" FIN SPACING	14x8	12x6	HART AND COOLEY/ 651	ADJUSTABLE PLATE DAMPER, BRIGHT WHITE FINISH
SR1WS-1	STEEL 1-WAY REGISTER, MS DAMPER, 1/2" FIN SPACING	10x8	8x6	HART AND COOLEY/ 681	ADJUSTABLE DAMPER, SIDE DEFLECTION, BRIGHT WHITE FINISH
SR1WS-3	STEEL 1-WAY REGISTER, MS DAMPER, 1/2" FIN SPACING	18x8	16x6	HART AND COOLEY/ 681	ADJUSTABLE DAMPER, SIDE DEFLECTION, BRIGHT WHITE FINISH
SR2W-2	STEEL 2-WAY REGISTER, MS DAMPER, 1/3" FIN SPACING	12x6	10x4	HART AND COOLEY/ 661	ADJUSTABLE DAMPER IN FACE, BRIGHT WHITE FINISH
SR2W-7	STEEL 2-WAY REGISTER, MS DAMPER,	18x10	16x8	HART AND COOLEY/ 661	ADJUSTABLE DAMPER IN FACE, BRIGHT



irectories\9700–9799\9757 – Findlay Flats Findlay Parkside (Willkommen ? Phase II)\~Construction Documents\~Phase 2 (3 Buildings)\1807 VINE\9757–M1-WINGS AND SPECIFICATIONS ARE NOT AUTHORIZED TO BE USED AS CONTRACT DOCUMENTS. THESE DRAWINGS HAVE BEEN PRE MINE CODE COMPLIANCE. THE INSTALLING CONTRACTOR IS RESPONSIBLE TO ENSURE THAT MEANS, METHODS, AND MATERIALS L CONTRACTOR, ETC.

1/3" FIN SPACING

RECOMMENDATIONS.

. RETURN DUCT UP TO FIRST FLOOR.

. SUPPLY DUCT UP TO FIRST FLOOR.

CODE MINIMUM OSA LISTED ABOVE. . FRESH AIR INTAKE THRU WALL TO WALL CAP.

8.3 10' FROM MECHANICAL AIR INTAKE

PENETRATIONS. REFER TO DETAIL.

8.2. 3' FROM OPERABLE OPENINGS INTO BUILDING.

9. DUCT EXHAUST UP THROUGH ROOF WITH RAIN-PROOF CAP.

8.1. 3' FROM PROPERTY LINE.

PUMP AS REQUIRED.

FOR DETAILS.

WHITE FINISH

ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOOR DRAIN IN MECHANICAL CLOSET. SLOPE PIPE A MINIMUM OF 1/8 " PER FOOT AWAY FROM UNIT.

SHALL BE CONCEALED IN FINISHED AREA. SIZE PER MANUFACTURES

. ALL BASEMENTS SHALL BE VENTILATED AS STORAGE/WAREHOUSE SPACE IN ACCORDANCE WITH TABLE 403.3 OF THE 2017 OHIO MECHANICAL CODE AT A

RATE OF 0.06 CFM PER SQUARE FOOT. PROVIDE NEW FAN IN BASEMENT FOR

COORDINATION. ALL EXHAUST SHALL MEET THE FOLLOWING REQUIREMENTS.

UNDERCUT DOOR 1" ABOVE FINISHED FLOOR FOR RETURN/ MAKE UP AIR.

ROUTE EXHAUST TO EXTERIOR WALL. INSTALL A LOUVERED VENT. SEE ARCHITECT BEFORE PENETRATION FOR EXACT LOCATION AND COLOR

10. 4" EXHAUST DUCT TO BE ROUTED DIRECTLY TO ROOF, AS ALLOWED PER 717.6.1 EXCEPTION. DUCT MUST BE MINIMUM 26 GA. AND BE CONTAINED

11. DUCTED RETURN BETWEEN TRANSFER GRILLES TO AVOID EXPOSED WALL

12. ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOOR DRAIN IN BASEMENT. SLOPE

PIPE A MINIMUM OF 1/8 " PER FOOT AWAY FROM UNIT. PROVIDE CONDENSATE

13. MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL LINE-SET COVERS FOR

15. ROUTE EXHAUST DUCT UP IN JOIST POCKET. RATING SHALL BE MAINTAINED

AROUND JOIST TO PREVENT FIRE DAMPER. REFER TO ARCHITECTURAL PLANS

WITHIN WALL CAVITY FOR FULL LENGTH. FIRE CAULK AROUND ALL

ALL EXPOSED REFRIGERANT PIPING AND CONDENSATE PIPING.

14. DUCTED RETURN SLEEVE TO AVOID EXPOSED WALL CAVITY.

ROUTE LINE SET FROM OUTDOOR UNIT TO INDOOR AIR HANDLER. ALL PIPING MECHANICAL SCOPE OF WORK IS TO PROVIDE NEW HVAC EQUIPMENT TO RESIDENTIAL AND COMMERCIAL SPACES. MECHANICAL CONTRACTOR SHALL REFERENCE ALL DISCIPLINE DRAWING, ETC. TO REVEAL FULL SCOPE OF WORK.

HVAC DESIGN CONDITIONS

RESIDENTIAL COOLINGHEATINGCOOLINGHEATINGOUTDOOR: 93 DB / 75 WBOUTDOOR: 0 DBOUTDOOR: 93 DB / 75 WBOUTDOOR: 0 DB INDOOR: 72 INDOOR: 70 INDOOR: 75 INDOOR: 70

GENERAL NOTES

- C. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER CONNECTIONS TO
- D. INSTALL ALL EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. MAINTAIN ALL
- DIFFUSER LOCATIONS.
- G. IN DWELLING UNITS, ROUTE ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ABOVE DROP CEILING OR IN BULKHEADS. COORDINATE ROUTING WITH ARCHITECTURAL DRAWINGS. DUCTS SHALL BE RUN BELOW THE RATED
- H. ROUTE ALL AIR CONDITIONER CONDENSATE TO NEARBY FLOOR DRAIN.
- ADA UNITS 40" ABOVE FINISHED FLOOR.
- . ANY EQUIPMENT THAT IS SUBSTITUTED SHALL FIT IN THE SPACE PROVIDED WITH ADEQUATE ROOM FOR SERVICING, INCLUDING SUBSTITUTE EQUIPMENT NAMED IN THE SPECIFICATIONS. SUBMIT A 1/4" SCALE DRAWING OF ALL EQUIPMENT SUBSTITUTED FOR APPROVAL PRIOR TO INSTALLATION, INCLUDING. BUT NOT LIMITED TO, STRUCTURAL AND ARCHITECTURAL IMPACT, CLEARANCE REQUIREMENTS AND UTILITY REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE ALL NEW ELECTRICAL AND PLUMBING REQUIREMENTS WITH THE ELECTRICAL AND PLUMBING
- K. MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABLED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.
- J. THE FOLLOWING GUIDELINES MUST BE FOLLOWED FOR THE DOMESTIC DRYER
- J.A. EXHAUST DUCTS SHALL HAVE A SMOOTH INTERIOR FINISH AND BE
- J.B. DUCT SIZE SHALL BE 4 INCHES NOMINAL DIAMETER.
- PLACE. THE INSERT END OF THE DUCT SHALL EXTEND INTO THE ADJOINING DUCT OR FITTING IN THE DIRECTION OF AIRFLOW.
- PROTRUDE MORE THAN $\frac{1}{8}$ INCH INTO THE INSIDE OF THE DUCT.
- J.E. PROTECTIVE SHIELD PLATES SHALL BE PLACED WHERE NAILS OR SCREWS FROM FINISH OR OTHER WORK ARE LIKELY TO PENETRATE THE CLOTHES DRYER EXHAUST DUCT. SHIELD PLATES SHALL BE PLACED ON THE FINISHED FACE OF ALL FRAMING MEMBERS WHERE THERE IS LESS THAN 1-1/4 INCHES BETWEEN THE DUCT AND THE FINISHED FACE OF THE FRAMING MEMBER. SHIELD PLATES SHALL BE CONSTRUCTED OF STEEL, HAVE A THICKNESS OF 0.062 INCHES, AND EXTEND NOT LESS THAN 2 INCHES ABOVE SOLE PLATES
- SYSTEM SHALL BE A SINGLE LENGTH THAT IS LISTED AND LABELED IN ACCORDANCE WITH UL 2158A. TRANSITION DUCTS SHALL BE NOT GREATER THAN 8 FEET IN LENGTH AND SHALL NOT BE CONCEALED WITHIN CONSTRUCTION.
- NEAR DRYER.
- J.H. PROVIDE A PERMANENT LABEL OR TAG (EQUAL TO DRYERPLACARD) INDICATING ACTUAL EQUIVALENT LENGTH OF EXHAUST DUCT. LENGTH SHALL INCLUDE 5' FOR 90 . LABEL/TAG MUST BE WITHIN 6' OF DRYER EXHAUST CONNECTION. DRYER EXHAUST DUCT FITTING EQUIVALENT LENGTH SHALL BE 2'-6" FOR A RADIUS MITERED 45-DEGREE ELBOW AND 5 FEET FOR A RADIUS MITERED 90-DEGREE ELBOW.

SYMBOLS L	EGEND — HVAC
T	THERMOSTAT
\boxtimes	CEILING DIFFUSER
->	SIDE WALL GRILL
-\-	RETURN WALL GRILL
€\-	AIR FLOW DIRECTION
14x10	DUCTWORK
	TYPICAL SUPPLY DUCT DN
	TYPICAL RETURN DUCT DN
N N	TYPICAL EXHAUST DUCT
رده	TURNING VANES
	FLEXIBLE DUCT, 8'-0" LONG MAX.
<u> </u>	TYPICAL ROUND DUCT DN
	ROUND DUCT UP
	MVD MANUAL VOLUME DAMPER
	DROPPED CEILING/SOFFIT



MECHANICAL SCOPE OF WORK (PLAN REVIEW ONLY)

REFER TO MECHANICAL SPECIFICATIONS FOR ADDITIONAL DETAILS.

- A. FOR FULL SCHEDULES, SPECIFICATIONS, AND COMPLETE LISTING SEE DETAIL
- B. COORDINATE ROUTING OF ALL WORK WITH OTHER TRADES.
- ALL MECHANICAL EQUIPMENT.
- CODE RECOMMENDED CLEARANCES FOR ACCESS AND MAINTENANCE.
- E. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS, AND FINAL CEILING
- . PROVIDE BACKDRAFT DAMPERS FOR ALL EXHAUST SYSTEMS AND EITHER LOUVER, BRICK VENT, OR CAPS AT ALL EXTERIOR BUILDING PENETRATIONS.
- PROVIDE MINIMUM SLOPE OF 1/8 " PER FOOT. SIZE CONDENSATE PER SECTION 307.2.2 OF THE OHIO MECHANICAL CODE.
- MOUNT THERMOSTATS 60" ABOVE FINISHED FLOOR. MOUNT THERMOSTATS IN
- CONSTRUCTED OF METAL A MINIMUM OF 28 GAGE.
- J.C. DUCTS SHALL BE SUPPORTED AT 4-FOOT INTERVALS AND SECURED IN
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- J.G. PROVIDE DRYER WALL BOX EQUAL TO DUNDAS JAFINE MODEL DRB4XZW

SYMBOLS L	EGEND — HVAC
Ŧ	THERMOSTAT
	CEILING DIFFUSER
→	SIDE WALL GRILL
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← √—	AIR FLOW DIRECTION
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<u> </u>	TYPICAL ROUND DUCT DN
	ROUND DUCT UP
	MVD MANUAL VOLUME DAMPER
	DROPPED CEILING/SOFFIT



Job No: 22042

80

202 *****

SEVERT

E-77755

Progress Dates

Checked By: SSS

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ACCESSORIES:

1 EXTERNAL TRAP KIT 2 CONDENSATE NEUTRALIZER KIT 3 CONCENTRIC VENT KIT

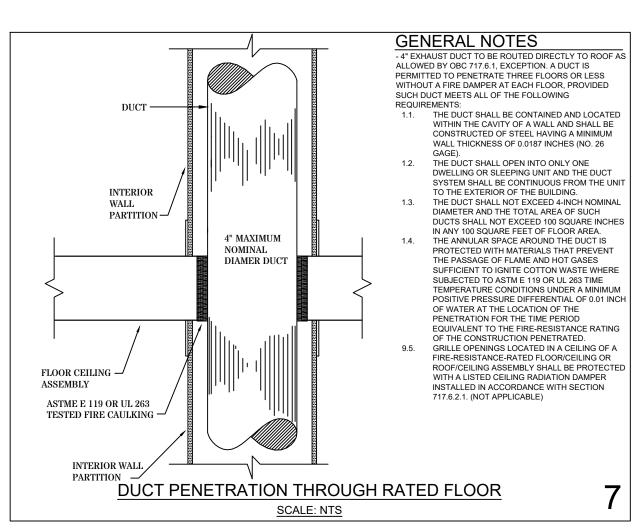
4 TWINING KIT

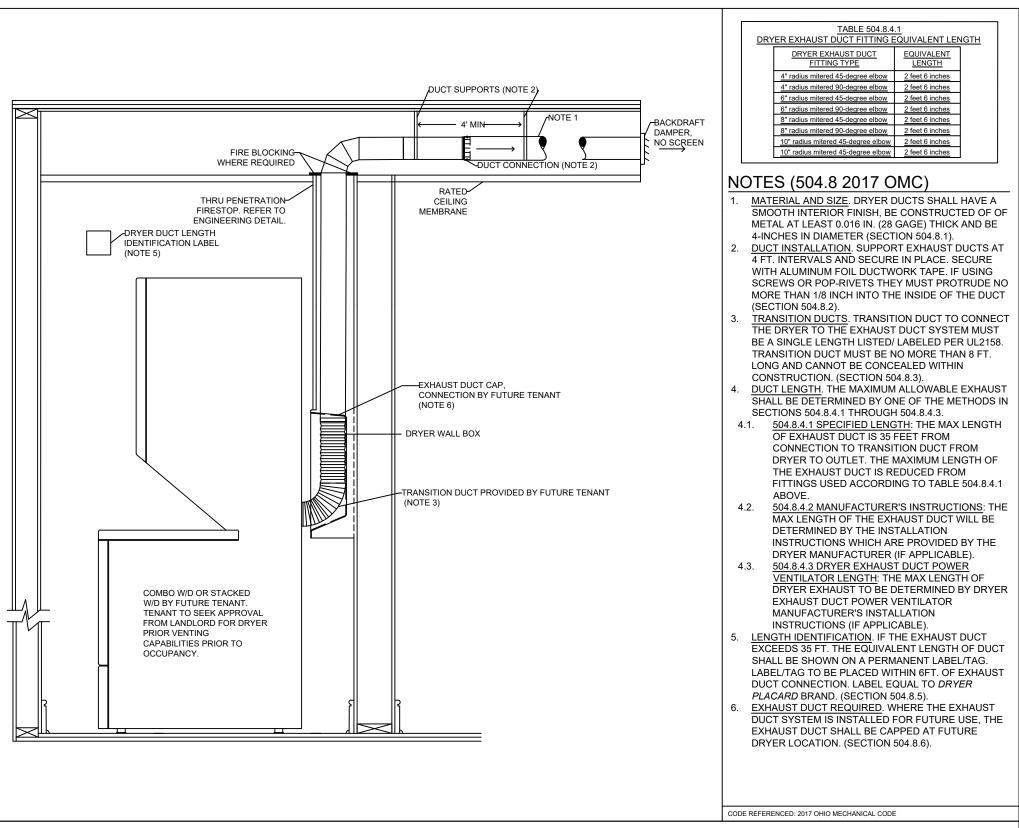
5 CRANKCASE HEATER 6 EVAPORATOR FREEZE THERMOSTAT 7 WINTER START KIT 8 HARD START KIT 9 LOW AMBIENT PRESSURE SWITCH 10 LOW PRESSURE SWITCH

LONG LINE APPLICATIONS 11 CRANKCASE HEATER

12 HARD START KIT

ASTME E 119 OR UL 263 TESTED FIRE CAULKING PIPE ASTME E 119 OR UL 263 TESTED FIRE CAULKING PIPE ASTME E 119 OR UL 263 TESTED FIRE CAULKING ASTME E 119 OR UL 263 TESTED FIRE CAULKING ASTME E 119 OR UL 263 TESTED FIRE CAULKING ASTME E 119 OR UL 263 TESTED FIRE CAULKING PIPE ASTME E 119 OR UL 263 TESTED FIRE CAULKING ASTME E 119 OR UL 263 TESTED FIRE CAULKING PIPE ASTME E 119 OR UL 263 TESTED FIRE CAULKING ASTME E 119 OR UL 263 TESTED FIRE CAULKING PIPE ASTME E 119 OR UL 263 TESTED FIRE CAULKING ASTME E 119 OR UL 263 TESTED FIRE CAULKING PIPE PENETRATION THROUGH RATED WALLS SCALE: NTS		
ASTME E 119 OR UL 263 TESTED FIRE CAULKING TIRE-RESISTANCE-RATED WALL SHALL BE PROTECTED AS FOLLOWS: 1. IN CONCRETE OR MASONRY WALLS WHERE THE PENETRATING ITEM IS A MAXIMUM 6" NOMINAL DIAMETER AND THE AREA OF THE OPENING THROUGH THE WALL DOES NOT EXCEED 144 SQUARE INCHES, CONCRETE, GROUT OR MORTAR IS PERMITTED WHERE IT IS INSTALLED THE FULL THICKNESS OF THE WALL OR THE THICKNESS REQUIRED TO MAINTAIN THE FIRE-RESISTANCE RATING. 2. THE MATERIAL USED TO FILL THE ANNULAR SPACE SHALL PREVENT THE PASSAGE OF FLAME AND HOT GASES SUFFICIENT TO IGNITE COTTON WASTE WHEN SUBJECTED TO ASTM E 119 OR UL 263 TIME-TEMPERATURE FIRE CONDITIONS UNDER A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH OF WATER AT THE LOCATION OF THE PENETRATION FOR THE TIME PERIOD EQUIVALENT TO THE FIRE-RESISTANCE RATING OF THE CONSTRUCTION PENETRATED.		GENERAL NOTES
PIPE PENETRATION THROUGH RATED WALLS	ASTME E 119 OR UL 263 TESTER FIRE CAULKING	- WHERE PENETRATING ITEMS ARE STEEL, FERROUS OR COPPER PIPES, TUBES OR CONDUITS, THE ANNULAR SPACE BETWEEN THE PENETRATING ITEM AND THE FIRE-RESISTANCE-RATED WALL SHALL BE PROTECTED AS FOLLOWS: 1. IN CONCRETE OR MASONRY WALLS WHERE THE PENETRATING ITEM IS A MAXIMUM 6" NOMINAL DIAMETER AND THE AREA OF THE OPENING THROUGH THE WALL DOES NOT EXCEED 144 SQUARE INCHES, CONCRETE, GROUT OR MORTAR IS PERMITTED WHERE IT IS INSTALLED THE FULL THICKNESS OF THE WALL OR THE THICKNESS REQUIRED TO MAINTAIN THE FIRE-RESISTANCE RATING. 2. THE MATERIAL USED TO FILL THE ANNULAR SPACE SHALL PREVENT THE PASSAGE OF FLAME AND HOT GASES SUFFICIENT TO IGNITE COTTON WASTE WHEN SUBJECTED TO ASTM E 119 OR UL 263 TIME-TEMPERATURE FIRE CONDITIONS UNDER A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH OF WATER AT THE LOCATION OF THE PENETRATION FOR THE TIME PERIOD EQUIVALENT TO THE FIRE-RESISTANCE RATING OF THE CONSTRUCTION
O		OLICH DATED WALLS
SCALE: NTS	PIPE PENETRATION THRO	OUGH KATED WALLS
	SCALE: N	<u>ITS</u>





DRYER EXHAUST DUCT DETAIL

DUCT INSULATION SCHEDULE									
		А	IR DISTRIBU	TION TYPE					
		SA	RA	ADDITIONAL NOTES					
EQUIPMENT	AHU-A-1.5	R-3.5	N/A	-					
EQU	GF-4	R-3.5	N/A	-					

DUCT INSULATION REQUIREMENTS ARE BASED ON TABLE 6.8.2B OF ASHRAE 90.1 2010 ENERGY CODE. PROVIDE DUCTWORK OF SUFFICIENT THICKNESS TO MEET THE INSTALLED R-VALUE REQUIREMENTS LISTED ABOVE.

ITEMS NOT REQUIRED TO BE INSULATED: FIBROUS-GLASS DUCTS, DUCTS WITH LINER THAT MEETS ASHRAE 90.1, FACTORY-INSULATED FLEXIBLE DUCTS, FACTORY-INSULATED PLENUMS AND CASINGS, FLEX CONNECTORS, VIBRATION-CONTROL DEVICES, FACTORY-INSULATED ACCESS PANELS AND DOORS.

COMMON AREAS: MECHANICAL VENTILATION CALCULATION SCHEDULE * (ASHRAE 62.1 LEED, PURPOSES ONLY)

SCHEDULE (ASHRAE 02.1 LEED PURPUSES UNLT)							
UNIT	AREA (SQ. FT.)	VENT. AIR REQ. CFM	ACTUAL WHOLE BUILDING VENTILATION				
ENTRY/STAIRWELL/CORRIDOR	321	19	30				

NATURAL VENTILATION SCHEDULE													
			180	7 - VINE									
UNIT	ROOM NAME	AREA	DOOR OPENABLE AREA [SQ. FT]	WINDOW OPENABLE AREA [SQ. FT]	UNOBSTRUCED OPENING	TOTAL OPENABLE AREA	4% OF FLOOR AREA	8% OF FLOOR AREA					
COMMERCIAL	COMMERCIAL	945	42	0	N/A	42	38	N/A					
201	LIVING/BEDROOM	267	0	33	N/A	33	11	N/A					
202	LIVING/BEDROOM	203	0	36	N/A	36	8	N/A					
301	LIVING/BEDROOM	267	0	33	N/A	33	11	N/A					
302	LIVING/BEDROOM	203	0	36	N/A	36	8	N/A					
401	LIVING/BEDROOM	267	0	33	N/A	33	11	N/A					
402	LIVING/BEDROOM	203	0	36	N/A	36	8	N/A					
				NATURAL VENTU ATION CALCULATIONS REPOSED 400 4 OF 2047 ONG									

NATURAL VENTILATION CALCULATIONS PER SEC 402.1 OF 2017 OMC

NATURAL VENILATION OF THE OCCUPIED SPACE SHALL BE THROUGH WINDOWS, DOORS, OR OTHER OPENINGS TO THE SPACE. THE OPERATING MECHANISIM FOR SUCH OPENINGS SHALL BE PROVIDED WITH READY ACCESS SO THAT THE OPENINGS ARE READILY CONTROLLABLE BY THE BUILDING OCCUPANTS.

.1.1	*VENTILATION CALCULATIONS PER OMC 2017 TABLE 403.3.									
F	BATHROOM FAN SPEED SETTING SCHEDULE									
	MAXIMUM SPEED	MINIMUM SPEED	ROOMNAME	⊃ICAL						
<u> </u>	SETTING	SETTING	NOOMNAME	JNIT						
	80	30	BATHROOM	201						
	80	30	BATHROOM	301						
	80	30	BATHROOM	302						
-		-								

RESIDENTIAL UNITS: MECHANICAL VENTILATION CALCULATION SCHEDULE * (ASHRAE 62.2 LEED PURPOSES ONLY)								
UNIT	AREA (SQ. FT.)	NUMBER OF BEDROOMS		ACTUAL WHOLE BUILDING VENTILATION				
201	708	1	22	30				
301	345	1	18	30				

328 1

	FAN SCHEDULE												
TAG	TYPE	AREA SERVED	MANUFACTURER	MODEL	DRIVE	CFM	ESP	WATTS	RPM	VOLT/PHASE	MOUNTING	WEIGHT	NOTES
E-1	EXHAUST	TYPICAL RESTROOM	PANASONIC	FV-0511VKS2	DIRECT	30,40-80	0.25	17	1131	115/60/1	CEILING	12	1,2,3,4
E-2	EXHAUST	STAIRWELL	PANASONIC	FV-0511VKS2	DIRECT	30	0.25	17	1131	115/60/1	CEILING	12	2,3,4,5
E-3	EXHAUST	RESTROOM	PANASONIC	FV-05-11VQ1	DIRECT	83	0.25	10.8	1185	115/60/1	CEILING	12	2

1. FAN SHALL RUN CONTINUOUSLY AT LOW SPEED (30/40 CFM) AND SHALL RAMP UP TO HIGH SPEED (80 CFM) WHEN SWITCH IS TURNED ON. PROVIDE ALL RELEVANT ACCESSORIES.

2. INSTALL RADIATION DAMPER PC-RD05C5 3. PROVIDE FV-CSVK1 CONDESNSATION SENSOR

4. REFER TO FAN SPEED SCHEDULE FOR FAN SPEED SETTINGS

5.. FAN SHALL RUN CONTINUOUSLY AT LOW SPEED (30 CFM)

MECHANICAL	CVIIALICT		204701110		\sim
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T		T		T					T	
D0014				EVILALIOT		FIXTU	JRES		TOTAL	TOTAL
ROOM NUMBER/UNIT TYPICAL	ROOMNAME	OCCUPANCY CLASSIFICATION	AREA (ft2)	EXHAUST AIRFLOW RATE (CFM/ft2)	EXHAUST RATE PER FIXTURE (CFM)	LOWER CONTINUOUS RATE?	HIGHER INTERMITTENT RATE?	QTY. OF FIXTURES	EXHAUST AIRFLOW REQ. (CFM)	EXHAUST AIRFLOW ACT. (CFM)
	RESTROOM	PUBLIC SPACES - TOILET ROOM	-	-	50/70	NO	YES	1	70	83
	BATHROOM	PRIVATE DWELLING - TOILET ROOMS	-	-	30/80	YES	NO	1	30	80

*EXHAUST CALCULATIONS PER OMC 2017 TABLE 403.3.1.1

	HEATERS													
TAG	TYPE	AREA SERVED	MANUFACTURER	MODEL	HEAT-MBH	FUEL	HEAT-KW	VOLT/PHASE	FLA	MOUNTING	WEIGHT	NOTES		
DH-1	DUCT HEATER	REFER TO PLANS	HOTPOD	HP6-1000120-2T	3.4	ELECTRIC	1	120/1/60		INLINE	7	3,4		
H-1	WALL HEATER	REFER TO PLANS	BERKO	FRA4020	6.8	ELECTRIC	2	208/1/60		IN WALL	30	1,2		
H-3	BASEBOARD	REFER TO PLANS	BERKO	2542W	1	ELECTRIC	0.3	208/1/60		BASEBOARD	30	2		

1. SEMI-RECESSED MOUNTING SLEEVE. 2. INTEGRAL THERMOSTAT

3. DUCT STAT INCLUDED 4. REPLACEABLE FILTER INCLUDED

			DEH	IUMIDIFIER S	CHEDUL	E				
TAG	AREA SERVED	MANUFACTURER	MODEL	CAPACITY - PINTS/24 HR	AMPS	FUSE	VOLT/PHASE	MOUNTING	WEIGHT	NOTES
DE-1	BASEMENT	APRILAIRE	1850	95	8	15	120/1	FLOOR	70	1,2,3,4

1. ENERGY STAR RATED. 2. DEHUMIDICATION COLTROL 3. CORD AND PLUG CONNECTION.

4. PROVIDE LOW PROFILE CONDENSATE PL

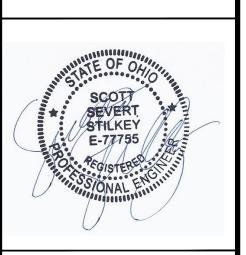
TAG	AREA SERVED	MANUFACTURER	MODEL	COOLING CAPACITY BTH/H	HEATING CAPACITY BTH/H	CFM	ESP	VOLT/PHASE	AMPS	WEIGHT	NOTE
IDU-1	REFER TO DRAWINGS	LG	LMN079HVT	7,000	8,100	254/204/148	-	208-230/1	0.4	19	1,3

	OUTDOOR MINI SPLIT SYSTEM SCHEDULE														
TAG	AREA SERVED	MANUFACTURER	MODEL	CLG-MBH	NOMINAL TONS	MIN SEER	НЕАТ-МВН	COOLING OPERATING RANGE (F)	HEATING OPERATING RANGE (F)	VOLT/PHASE	MCA	МОСР	REFRIGERANT	WEIGHT	NOTES
ODU-1	REFER TO DRAWINGS	LG	LMU240HHV	24	2	20.5	26	14~118	-13~75	208-230/1	19	30	R410A	152	1-4

1. PROVIDE ADJUSTABLE EQUIPMENT SUPPORTS 2. LOW AMBIENT WIND BAFFLE

3. PROVIDE/INSTALL PRE-FABRICATED HONEYWELL JACKETED METAL CLAD MINI-SPLIT CABLE FOR INDOOR/OUTDOOR UNIT CONNECTION

	APARTMENT SPLIT SYSTEM SCHEDULE																						
System	Outdoor Unit Tag	Model	Volts	Phase	MCA	МОСР	Outdoor Unit Weight	Indoor Unit Tag	Indoor Coil	Static	Air Flow CFM	Cool Cap Total	Cool Cap Sens	SEER	EER	Elect Heat Kw (240)	Elect Heat Kw (208)	Htg Cap 47 deg	Htg Cap 17 deg	HSPF	MCA	МОСР	Indoor Unit Weight
					Amps	Amps	lb	1		in wg.	cfm	Btuh	Btuh			kW	kW	Btuh	Btuh		Amps	Amps	lb
								AHU-A-1.5														1	
1.5 Ton 8KW	HP-1.5	DLCSRBH18AAK	208/230	1	16	25	101	(10KW)	FMA4X1800AL	0.50	650	18000	12690	17	11.8	8	5.6	19,200	15,000	11	47.6	60	103
**Requires Pipin	Requires Piping Adaptor Kit 1174192 and 24V interface KSAIC0401230																						



Progress Dates 04-28-2023 Permit

Revisions

Checked By: SSS Drawn by: RPG



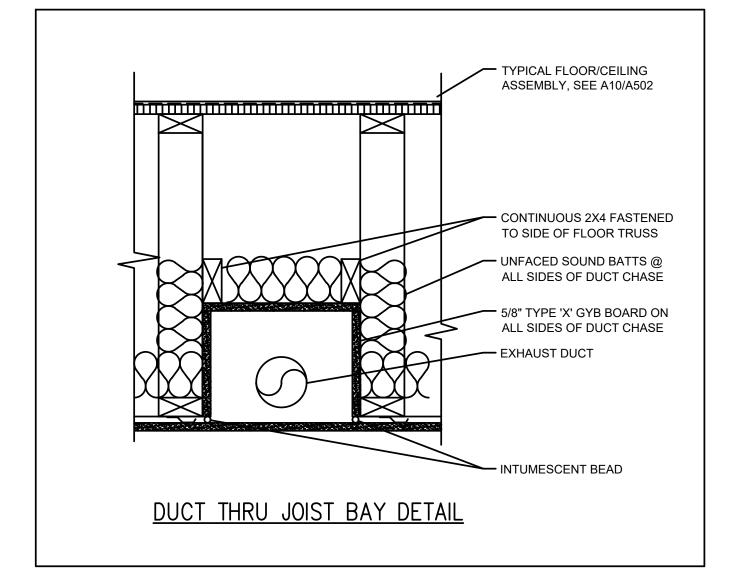
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CINCIN 8

Job No: 22042 8/10/2022



MECHANICAL SPECIFICATIONS

a. Refer to architectural drawings, general notes, instructions to bidders, general conditions, supplementary general conditions, base building specifications and drawings, shop drawing manuals and as-built plans, except as noted herein, which apply in all respects to this section. The contractor shall visit the site and familiarize himself with all existing conditions prior to bidding the work

2. Use of Drawings And Specifications

a. EBS drawings and specifications are intended to convey design intent only. All means and methods sequences, techniques, and procedures of construction as well as any associated safety precautions and programs, and all incidental and temporary devices required to construct the project, and to provide a complete and fully operational mechanical system are the responsibility of the mechanical contractor.

3. Standards

a. Equipment and materials shall conform with appropriate provisions of AGA, ARI, ASME, ASTM, CISPI, UL, NEMA, ANSI, SMACNA, ASHRAE, NFPA, NEC, as applicable to each individual unit or assembly. All equipment must bear UL label. 4. License / Experience

a. Contractor must be licensed by the state to install HVAC systems/equipment. Contractor must also have a minimum of 5 years of experience and have installed at least (5) successful project installations of similar size and scope. References must be provided upon request.

a. All work shall be performed in strict accordance with all applicable state and local codes and ordinances. The mechanical contractor shall satisfy code requirements at a minimum without any extra cost to the owner. In case of conflict between the drawings/specifications and the codes and ordinances, the highest standard shall apply.

6. Permits and Fees

a. The mechanical contractor shall procure and pay for all permits, fees, taxes, and inspections necessary to complete the mechanical work. Furnish certificate of approval for work from inspection authority to owner before final acceptance for work. Certificate of final inspection and approval shall be submitted with the contractor's request for payment. No final payment will be approved without this certificate.

7. Site Examination

a. The mechanical contractor shall thoroughly examine all areas of work where equipment, ductwork, and piping will be installed and shall report any condition that, in his opinion, prevents the proper installation of the mechanical work prior to bid. Contractor shall also examine the drawings and specifications of other branches of work, making reference to them for details of new or existing building conditions. No extras will be allowed for failure to include all required work in bid.

c. Mechanical contractor shall take their own measurements and be responsible for them. d. Access panels are not shown on drawings. During site examination, contractor shall identify all areas where access panels

b. All work shall be done at times convenient to the owner and only during normal working hours, unless specified otherwise.

are required, and report to general contractor. Designation of who furnishes and who installs access panels must be coordinated with general contractor prior to starting work.

8. Contractor Coordination

a. Coordination drawings showing system and component installation layout, routing, details, etc. Shall be produced by the mechanical contractor and under the supervision of the general contractor/construction manager, or appropriate party as

b. All systems installed by each sub-contractor shall be coordinated with one another and approved by general contractor/construction manager, etc. prior to installation and/or fabrication.

c. If questions concerning design intent arise during coordination, EBS can assist where appropriate.

d. The architectural drawings shall take precedence over all other drawings. Do not scale distances off the mechanical drawings; use actual building dimensions.

9. Shop Drawings / Submittals

a. Submit to the architect electronic copies of complete and certified shop drawings, descriptive data, performance data and ratings, diagrams and specifications on all specified equipment, including accessories, and materials for review. The make, model number, type, finish and accessories of all equipment and materials shall be reviewed and approved by the mechanical contractor and general contractor prior to submitting to the architect for their review and approval. Approval of shop drawings does not relieve the mechanical contractor/vendor from compliance with the requirements of the contract drawings, specifications and applicable codes.

b. Shop drawings shall be required for the following:

HVAC equipment

•Diffusers, registers, grilles, dampers, louvers, and all sheet metal accessories

•Temperature controls

 Sheet metal coordination drawings Duct Sealants

c. Products installed by the mechanical contractor and provided by others must be submitted for review prior to purchasing. Products shall not be selected based on permit drawings without express permission - products shall be selected based on construction drawings.

10. Record Drawing

a. The mechanical contractor shall be responsible for creating record drawings where required. Drawings shall be produced

b. The mechanical contractor shall be responsible for creating record drawings in a format agreed upon by 3CDC, ZHx, and the contracting parties.

a. All mechanical systems shall be tested for proper operation.

12. Fire Stopping

a. Provide fire stopping at all penetrations through rated separations per local codes & regulations & per UL recommendations for assemblies encountered in project.

b. The fire stopping material shall meet the integrity of the fire rated wall, floor, ceiling & roof being penetrated. Refer to architect's drawings for wall, floor, ceiling & roof fire ratings prior to bidding work.

c. Refer to architect's drawings for wall, floor, ceiling, and roof fire ratings prior to bidding work.

13. Access Panels

a. Provide ceiling and wall access panel quantities & locations to the general contractor prior to bidding. Access panels are required for all concealed appliances, controls devices, heat exchangers and HVAC system components that utilize energy. Where access panels are used, the access panel should be sized to allow accessibility for inspection, service, repair and replacement without disabling the function of a fire-resistance-rated assembly or removing permanent construction, other appliances, venting systems or any other piping or ducts not connected to the appliance being inspected, serviced, repaired or replaced. There shall be no extras for having to add access panels after bids are

Cutting and Patching

a. Neatly do all cutting as required and patch all cut surfaces to match building construction. The contractor shall employ and pay a trade trained and qualified to perform the required patching work. All surfaces disturbed shall be restored with like materials to the satisfaction of the owner. All penetrations through roof shall be made by bonded roofer. Mechanical contractor shall pay all fees required.

15. Flashing & Counterflashing

a. Roof flashing shall be furnished and installed by the roofing contractor. Roof counterflashing shall be furnished and installed by the mechanical contractor. Coordinate work with roofing contractor and pay all fees.

b. Obtain approval from general contractor, construction manager, owner and/or roofing contractor prior to making any penetrations so that warranties are not compromised or voided.

Warranty

a. The mechanical contractor shall unconditionally warrant all work to be free of defects in equipment, material and workmanship for a period of one (1) year from the date of final acceptance by owner. The mechanical contractor will repair or replace any defective work promptly and without charge to the owner. b. Restore any other existing work damaged in the course of repairing defective equipment, materials and workmanship.

17. Mechanical Work a. The mechanical contractor shall provide new hvac equipment, fans, ductwork, piping, air devices, controls as indicated on

drawings and as specified. Startup and 1st year parts and labor warranty shall be included and manufacturer's extended warranties. Equipment and appliances shall be installed as required by the terms of their approval, in accordance with the conditions of the listing, the manufacturer's installation instructions, and the applicable code.

18. Owner's Instructions a. Provide two sets of complete operating and maintenance instructions with drawings, typewritten instructions and operating

sequences and descriptive data sheets. Assemble each set in a hard-bound cover. Provide pdf files of all documentation.

a. Put all equipment in service and demonstrate that all conditions of the contract have been fulfilled. Remove all tools, debris, etc. occasioned by work under this contract. Mechanical Contractor to provide a new set of filters in all HVAC units prior to turnover. Submit all warranties, test reports, operating and maintenance manuals for HVAC systems, log sheets and charts, and guarantees as previously specified. Provide all reports, forms, etc. required by inspectors to the satisfaction of the owner. Provide as-built record drawings (in Autocad 2007 or later) showing an accurate account of the final installed systems. Systems including but not limited to all equipment and associated controls, ductwork/piping, air devices, etc.

20. Sheetmetal Ductwork

a. All sizes of ducts shown on the drawings are interior duct dimensions. All ductwork shall be rigid sheetmetal constructed from galvanized sheet steel in accordance with SMACNA low velocity duct construction standards. All exposed ductwork shall be round, spiral, or rectangular lock-seam type, as shown on HVAC drawings. Assemble and install ductwork in accordance with recognized industry practice for achieving air tight (5% leakage) and noiseless (no objectionable noise) systems, capable of performing each indicated service. Furnish all required dampers, transitions, offsets, connections to air devices, and other accessories necessary for a complete operating system. Flexible ductwork shall not exceed 8'-0"

b. All 90-degree duct turns must be 1.5 radius elbows. If a 1.5 radius elbow will not fit, square elbows with turning vanes can be provided in lieu of radius but should be limited to only areas where there are space constraints.

c. All takeoff/branch ductwork must utilize boot or conical tee fittings.

21. Adhesives and Sealants

a. Seal all longitudinal and transverse duct joints with a UL 181A or 181B non-hardening, non-migrating mastic or liquid elastic sealant of a type recommended by the manufacturer for sealing joints and seams in sheet metal ductwork. Cover all field joints, joints around spin-in fittings and fastening screws with mastic. All sealants and gaskets shall have

- surface-burning characteristics with a maximum flame-spread index of 25 and a maximum smoke-developed index of 50
- b. Exposed Ductwork: trim duct sealants flush with metal. Create a smooth and uniform exposed bead. Do not use two-part tape sealing system.
- c. All duct boots sealed to drywall/finished floor (any interface with another material).

22. Duct Supports

24. Duct Manual Volume Dampers

a. Furnish and install hot-dipped galvanized steel fasteners, hangers, anchors, rods, straps, trim, and angles for support of

23. Flexible Connections

a. Furnish and install neoprene flexible duct connections at the inlet and discharge of units and fans.

a. Furnish and install opposed-blade, leak-proof volume control dampers where indicated on drawings and locations in supply, return and exhaust ducts where branches are taken from larger ducts or at each individual duct register in order to achieve system air balance quantities. Balancing devices must be provided in accordance with IMC 603.18. All manual volume dampers must be shown on coordination drawings when submitted for review.

25. Duct Access Doors

A. Furnish and install conveniently located duct access doors of ample size and quantity for servicing the dampers. 26. Diffusers, Grilles and Registers

A.Diffusers, grilles and registers shall be manufactured by titus, price, or engineered approved equal and shall be furnished and installed by the mechanical contractor. Diffusers shall be installed as indicated on the drawings and schedules. The mechanical contractor shall provide all miscellaneous items necessary for a complete and proper installation in the type of ceiling and walls used in this project.

27. Exhaust Fan A.Fan manufacturer shall be Broan, Cook, Panasonic, Greenheck, or engineered approved equal. Refer to drawings and

schedules for unit location, technical data, and any applicable accessories. 28. Ducted Split Systems

a. Split systems shall consist of high efficient air handling unit and associated heat pump. Equipment shall have manufacturer's

b. Split system manufacturer shall be Tempstar, Carrier, Goodman, or engineered equal.

29. Indoor Furnace A. Split systems shall consist of high efficient condensing gas furnace and associated condensing unit. Furnace shall be a 4-way multipoise design and installed per manufacturer's requirements. Refer to drawings and schedules for unit location,

30. Condensate Drain Piping A. The mechanical contractor shall furnish and install condensate drains, p-traps with removable cleanout caps for air

equipment per manufacturer's recommendations. The p-trap depth shall be at least the depth specified for the respective pressure drop of the unit. Condensate drain piping shall be schedule 40 CPVC pipe with solvent weld fittings [Insulate condensate walls of pipe with Armaflex AP, flexible closed cell elastomeric foam, self-sealing insulation. Provide 1/2" thick insulation on piping < 1" in diameter and 1" thick insulation on piping between 1" and 1-1/2" in diameter. Pipe insulation shall not exceed 25/50 flame-smoke ratings]. All condensate drain lines shall be configured to permit the clearing of blockages and performance of maintenance without requiring the drain line to be cut. For condensate pumps located in uninhabitable spaces (i.e. attics and crawl spaces), provide controls that will shut down the equipment if the condensate

B. All cooling equipment shall have a wet switch in the primary drain line, the overflow drain line, or in the equipment-supplied drain pan (located at a point higher than the primary drain line connection and below the overflow rim of the pan) that will shut down the unit when the condensate is clogged.

31. Piping Supports (Metal Pipe)

A.Furnish and install hot-dipped galvanized steel fasteners, hangers, anchors, rods, straps, trim and angles for support of

32. Piping Supports (Plastic Pipe)

A. Furnish and install hangers for plastic piping per manufacturer's requirements.

33. Temperature Controls and Control Wiring

A. The mechanical contractor shall provide all control wiring necessary for the complete and proper operating temperature control system. Programmable thermostats shall be provided with equipment packages unless otherwise noted.

B. Exposed wiring: All wiring exposed to the space shall be run in conduit. Coordinate requirements with architectural 34. Commissioning

a. 3CDC has hired ZHCx to act as their commissioning provider. The commissioning process will be implemented on the

b. ZHCx will conduct onsite observations throughout construction. ZHCx shall be notified prior to any ductwork being

c. ZHCx shall be notified prior to any equipment start up. ZHCx will witnedd start up of all split systems. If a start up occurs without notifying ZHCx the responsible contractor is required to perform another start up in the presence of ZHCx.

d. ZHCx will conduct functional performance testing on all HVAC equipment. Any findings will be reported to 3CDC, project architect, mechanical contractor, and the engineer of record. The responsible party is required to document the correction so that ZHCx can verify the correction has been made. ZHCx will perform one back check of the correction to ensure it has been implemented in its entirety.

35. Sequence of Operation

•H-X: heater shall be controlled from the integral thermostat. When the temperature of the space drops below the thermostat setpoint, the heater fan shall run and the electric heating element shall engage to maintain temperature

Exhaust Fans

•E-X: exhaust fan shall run on a wall switch (provided by the electrical contractor). •Split Systems

• AHU/HP-1.5:

●DFH-1

dehumidifier shall shut off.

•Heating mode - indoor air handler shall be controlled from a thermostat in the space. When the thermostat calls for heating the fan shall run and the heat pump in heating mode shall run to maintain temperature setpoint. If the heat pump cannot maintain temperature in the space, the electric heat kit shall energize until set point is reached. When the setpoint is reached the unit shall shut off.

• Cooling mode - when the thermostat calls for cooling the heat pump unit shall run in cooling mode, the air handler fan shall run, and the dx cooling coil shall cool the air to maintain temperature setpoint.

•Heating mode - indoor furnaces shall be controlled from a thermostat in the space. When the thermostat calls for heating the fan shall run and the gas fired heat exchanger shall fire to maintain temperature setpoint. When the setpoint is reached the unit shall shut off.

• Cooling mode - when the thermostat calls for cooling the condensing unit shall engage, the furnace fan shall run, and the dx cooling coil shall cool the air to maintain temperature setpoint. •IDU/ODU-1: • Heating mode - indoor unit shall be controlled from a thermostat in the space. When the thermostat calls for heating the fan

•Dehumidifier shall be controlled from an integral humidistat. When the humidity of the space rises above set point the

dehumidifier shall energize and begin to dehumidify the space. When the humidity setpoint is reached the

shall run and the heat pump in heating mode shall run to maintain temperature setpoint. • Cooling mode - when the thermostat calls for cooling the heat pump unit shall run in cooling mode, the unit fan shall run, and the dx cooling coil shall cool the air to maintain temperature setpoint. Dehumidifier

STILKEY

Progress Dates 04-28-2023 Permit

Revisions

Checked By: SSS

Drawn by: RPG



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Job No: 22042

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8/10/2022

KEYED SHEET NOTES

- MECHANICAL EQUIPMENT PROVIDED BY MECHANICAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR, VERIFY ELECTRICAL REQUIREMENTS WITH
- MECHANICAL REQUIREMENTS PRIOR TO ROUGH-IN. 2. PLUMBING EQUIPMENT PROVIDED BY PLUMBING CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR. VERIFY ELECTRICAL REQUIREMENTS WITH PLUMBING REQUIREMENTS PRIOR TO ROUGH-IN.
- 3. DUCTLESS INDOOR UNIT POWERED FROM OUTDOOR UNIT. CONFIRM LOCATION AND DISCONNECTING MEANS WITH INSTALLING CONTRACTOR.

4. PROVIDE SWITCH AND CONNECTION FOR CONTINUOUSLY RUNNING 2-SPEED

- BATHROOM FAN. VERIFY REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- PROVIDE HARD-WIRED SMOKE DETECTORS WITH BATTERY BACK-UP AS REQUIRED. ONE SMOKE DETECTOR IN EACH UNIT MUST BE A SMOKE/CO DETECTOR COMBO.
- 6. DISHWASHER MUST BE GFCI PROTECTED PER NEC 210.8(D) RECEPTACLE SHALL BE LOCATED IN AN ACCESSIBLE LOCATION.
- 7. MICROWAVE RECEPTACLE LOCATED IN CABINET ABOVE, COORDINATE LOCATION WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
- 8. CORRIDOR LIGHTS TO BE CONTROLLED BY OCCUPANCY SENSOR UNLESS OTHERWISE NOTED.
- 9. LOCATION OF BUILDING UTILITY DATA DEMARC. PROVIDE A 4'X4'X²/₄" PLYWOOD BACKBOARD FOR DATA/PHONE UTILITIES. COORDINATE ALL REQUIREMENTS WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN. PROVIDE DEDICATED QUAD RECEPTACLE AS SHOWN.
- 10. EXTERIOR LIGHTING ON PHOTOCELL. CONFIRM LOCATION OF PHOTOCELL DEVICE WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN.
- 11. COORDINATE LOCATION AND REQUIREMENTS OF BUILDING CALL BOX WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN.
- 12. INSTALL FIOPTIC 4-GANG AND QUAD OUTLET IN CABINET ABOVE REFRIGERATOR AS SHOWN.
- 13. COORDINATE TV RECEPTACLE AND DATA LOCATIONS WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN. 14. HOT WATER CIRCULATION PUMP HARDWIRED CIRCUIT CONNECTION.
- COORDINATE LOCATION WITH PLUMBING CONTRACTOR. PRIOR TO ROUGH-IN.
- 15. LOCATION OF FUTURE RADON, PROVIDE JUNCTION BOX FOR FUTURE RADON FAN, FAN NOT TO BE INSTALLED AT THIS TIME.

GENERAL NOTES-DWELLING UNITS

- A. PROVIDE AFCI PROTECTION IN ACCORDANCE WITH NEC 210.12. AFCI PROTECTION MUST BE PROVIDED WHERE EXISTING BRANCH CIRCUIT WIRING IS MODIFIED, OR RECEPTACLES ARE REPLACED, IN ACCORDANCE WITH NEC AND LOCAL ELECTRICAL INSPECTION REQUIREMENTS. REFER TO NEC 406.4 (D) AND NEC 210.12 (D)
- B. FURNISH AND INSTALL SMOKE DETECTORS AS REQUIRED BY CODE. SMOKE DETECTORS SHOWN ON EBS DRAWINGS ARE INTENDED TO CONVEY GENERAL COMPLIANCE FOR BUILDING DEPARTMENT SUBMITTALS. PROVIDE INTERWIRING BETWEEN SMOKE DETECTORS LOCATED IN THE SAME UNIT. SMOKE DETECTORS SHALL BE HARD WIRED WITH BATTERY BACK-UP. FIRE ALARM AND/OR SMOKE DETECTOR SYSTEMS ARE FURNISHED ON A DESIGN-BUILD BASIS BY THE ELECTRICIAN.
- WHERE CIRCUITING IS SHOWN TYPICAL FOR MULTIPLE UNITS, COORDINATE BREAKER/WIRE SIZES FOR EQUIPMENT FURNISHED BY OTHERS WITH SHOP DRAWINGS PROVIDED BY THE CONTRACTOR SUPPLYING THE EQUIPMENT. VERIFY BREAKER/WIRE SIZES FOR EQUIPMENT OR APPLIANCE FOR EACH UNIT PRIOR TO ROUGH-IN.
- D. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR DIMENSIONED LOCATIONS OF ALL LIGHT FIXTURES.
- E. PROVIDE CONDUIT AND PULL STRING TO APPROVED LOCATION FOR VOICE, DATA, AND CATV CABLES.
- F. CIRCUITING ON DRAWINGS AND PANEL SCHEDULE IS SHOWN TYPICAL FOR SIMILAR UNITS. REFER TO DWELLING UNIT LOAD SUMMARIES FOR INDIVIDUAL DWELLING UNIT LOAD CALCULATIONS
- G. COORDINATE RECEPTACLE, PHONE, AND TV DEVICE PLACEMENT WITH FURNITURE LOCATIONS. VERIFY WITH ARCHITECT PRIOR TO ROUGH IN. LOCATIONS SHOWN ON DRAWINGS ARE INTENDED TO CONVEY DESIGN INTENT, AND DEMONSTRATE GENERAL COMPLIANCE WITH CODE. WHERE ACTUAL STUD LOCATIONS REQUIRE DEVICE LOCATIONS TO BE ADJUSTED, ADDED OR MINOR VARIATIONS AMONG UNITS THAT ARE SHOWN AS "TYPICAL", ETC. OCCUR, CONTRACTOR, UNDER HIS BASE BID, TO MAKE NECESSARY ADJUSTMENTS / ADDITIONS IN THE FIFLD TO MAINTAIN NEC DWELLING UNIT RECEPTACLE SPACING REQUIREMENTS. WHERE ACTUAL WINDOW CONSTRUCTION PROHIBITS THE INSTALLATION OF A WALL RECEPTACLE, PROVIDE FLOOR RECEPTACLE WITHIN 18 INCHES OF THE BASE

ART. 406.12

OF THE WALL. PROVIDE TAMPER PROOF RECEPTACLES AS REQUIRED BY NEC

GENERAL NOTES-POWER

- A. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT/CABLE ROUTING. COORDINATE ROUTING WITH ALL OTHER TRADES AND BUILDING CONDITIONS.
- B. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC.
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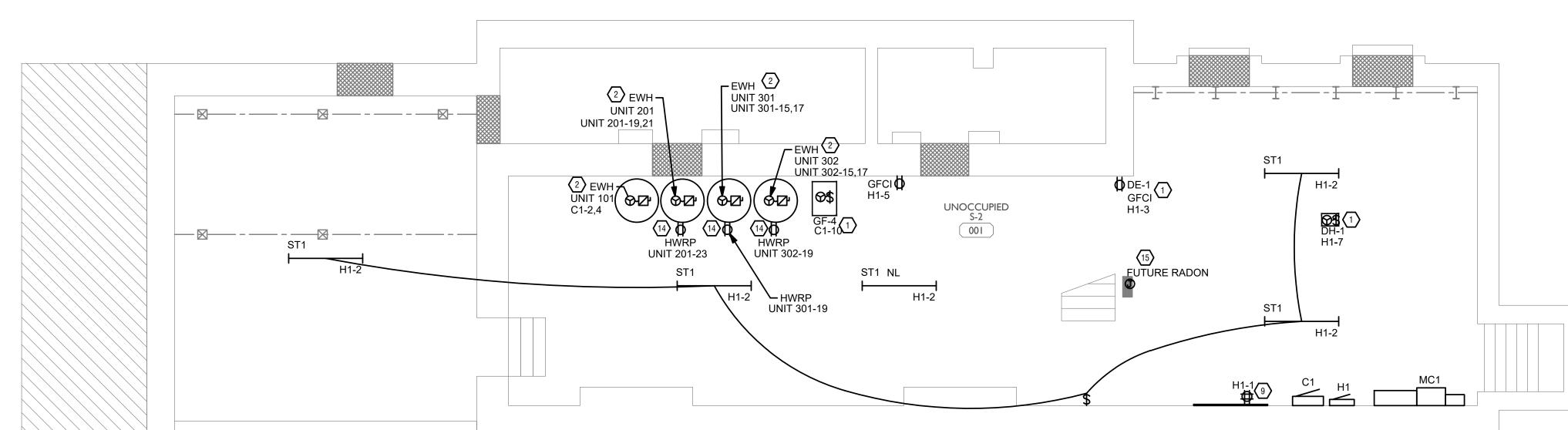
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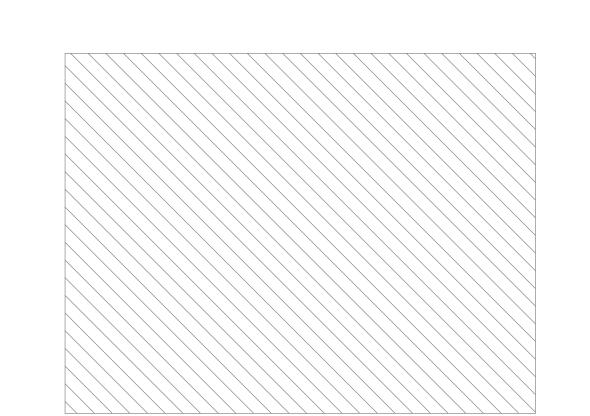
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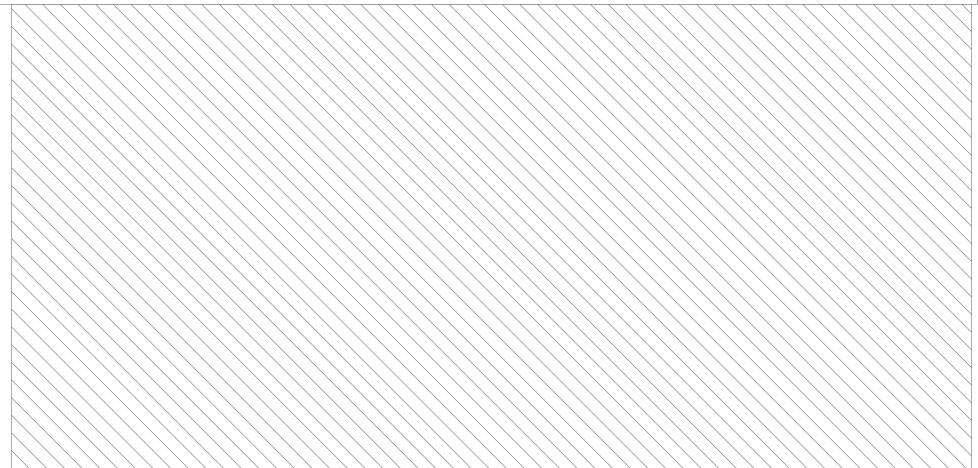
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ART. 406.12

GENERAL NOTES-POWER

PROOF BOX AND HAVE GFCI PROTECTION.

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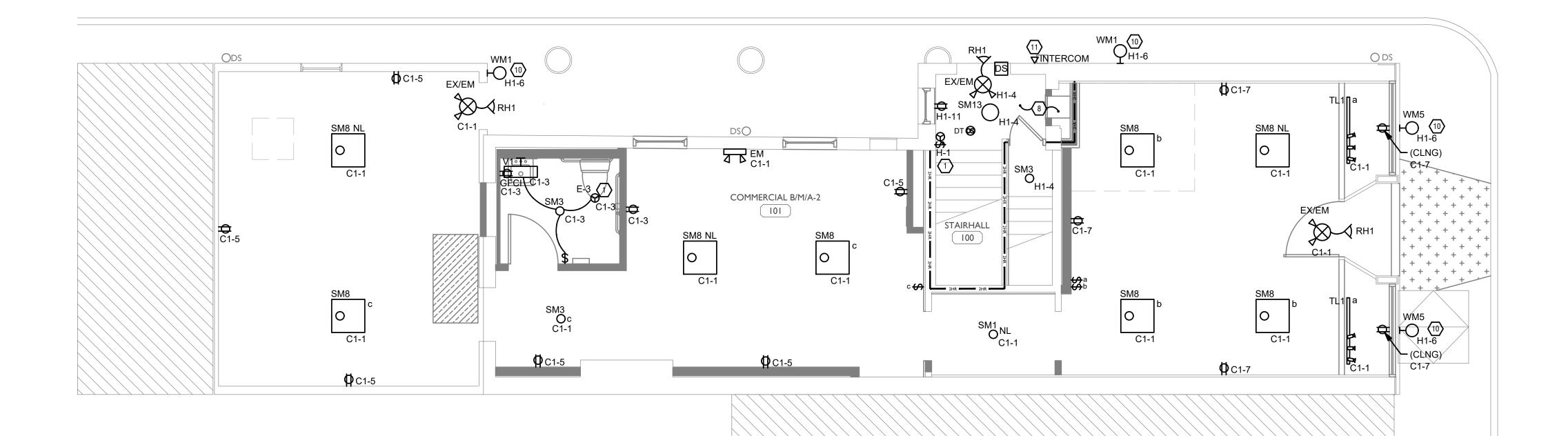
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PR-09757

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BUILDING
SYSTEMS INC.

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Drawn by: AJW

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Job No: 22042

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ART. 406.12

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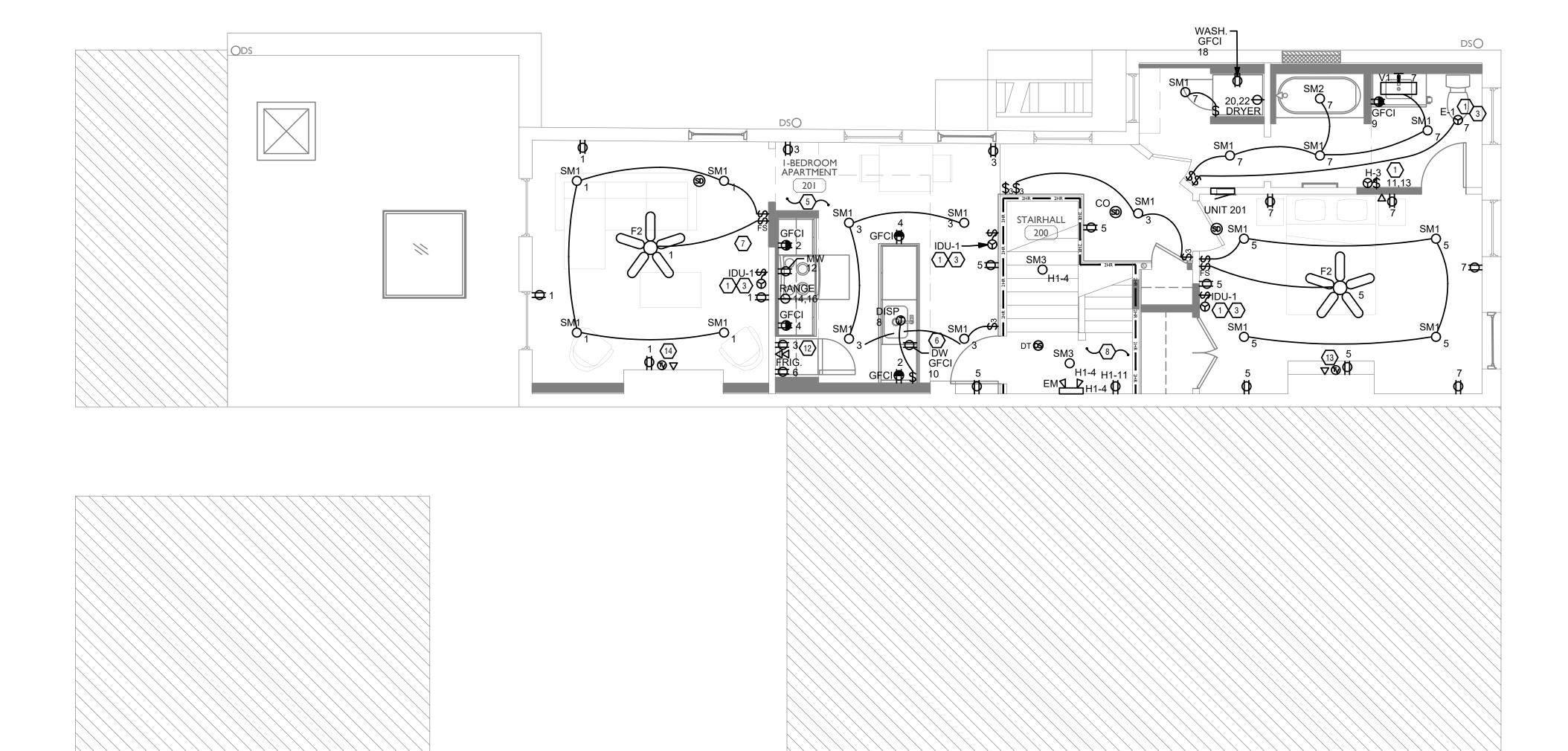
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 10. EXTERIOR LIGHTING ON PHOTOCELL. CONFIRM LOCATION OF PHOTOCELL
- DEVICE WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN.

 11. COORDINATE LOCATION AND REQUIREMENTS OF BUILDING CALL BOX WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN.
- INSTALL FIOPTIC 4-GANG AND QUAD OUTLET IN CABINET ABOVE REFRIGERATOR AS SHOWN.
- 13. COORDINATE TV RECEPTACLE AND DATA LOCATIONS WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN.
- 14. HOT WATER CIRCULATION PUMP HARDWIRED CIRCUIT CONNECTION. COORDINATE LOCATION WITH PLUMBING CONTRACTOR. PRIOR TO ROUGH-IN.
- 15. LOCATION OF FUTURE RADON, PROVIDE JUNCTION BOX FOR FUTURE RADON FAN, FAN NOT TO BE INSTALLED AT THIS TIME.

GENERAL NOTES-DWELLING UNITS

- A. PROVIDE AFCI PROTECTION IN ACCORDANCE WITH NEC 210.12. AFCI PROTECTION MUST BE PROVIDED WHERE EXISTING BRANCH CIRCUIT WIRING IS MODIFIED, OR RECEPTACLES ARE REPLACED, IN ACCORDANCE WITH NEC AND LOCAL ELECTRICAL INSPECTION REQUIREMENTS. REFER TO NEC 406.4 (D) AND NEC 210.12 (D)
- B. FURNISH AND INSTALL SMOKE DETECTORS AS REQUIRED BY CODE. SMOKE DETECTORS SHOWN ON EBS DRAWINGS ARE INTENDED TO CONVEY GENERAL COMPLIANCE FOR BUILDING DEPARTMENT SUBMITTALS. PROVIDE INTERWIRING BETWEEN SMOKE DETECTORS LOCATED IN THE SAME UNIT. SMOKE DETECTORS SHALL BE HARD WIRED WITH BATTERY BACK-UP. FIRE ALARM AND/OR SMOKE DETECTOR SYSTEMS ARE FURNISHED ON A DESIGN-BUILD BASIS BY THE ELECTRICIAN.
- C. WHERE CIRCUITING IS SHOWN TYPICAL FOR MULTIPLE UNITS, COORDINATE BREAKER/WIRE SIZES FOR EQUIPMENT FURNISHED BY OTHERS WITH SHOP DRAWINGS PROVIDED BY THE CONTRACTOR SUPPLYING THE EQUIPMENT. VERIFY BREAKER/WIRE SIZES FOR EQUIPMENT OR APPLIANCE FOR EACH UNIT PRIOR TO ROUGH-IN.
- D. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR DIMENSIONED LOCATIONS OF ALL LIGHT FIXTURES.
- E. PROVIDE CONDUIT AND PULL STRING TO APPROVED LOCATION FOR VOICE, DATA, AND CATV CABLES.
- F. CIRCUITING ON DRAWINGS AND PANEL SCHEDULE IS SHOWN TYPICAL FOR SIMILAR UNITS. REFER TO DWELLING UNIT LOAD SUMMARIES FOR INDIVIDUAL DWELLING UNIT LOAD CALCULATIONS

G. COORDINATE RECEPTACLE, PHONE, AND TV DEVICE PLACEMENT WITH

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ART. 406.12

GENERAL NOTES-POWER

- A. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT/CABLE ROUTING. COORDINATE ROUTING WITH ALL OTHER TRADES AND BUILDING CONDITIONS.
- B. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC.
- C. PROVIDE MOTOR STARTERS FOR EQUIPMENT AS INDICATED ON DRAWINGS. COORDINATE ANY INTERLOCKING WIRING WITH HVAC CONTRACTOR AND PROVIDE WIRING, COILS, AND AUXILIARY CONTACTS AS NECESSARY. SIZE ALL CIRCUITS FOR ACTUAL EQUIPMENT TO BE CONNECTED.
- D. ALL PANELS AND DISCONNECTS LOCATED OUTDOORS SHALL BE LABELED
- E. ROOF MOUNTED AND OUTDOOR EQUIPMENT SHALL HAVE 120V RECEPTACLE MOUNTED WITHIN 25' OF EACH PIECE. RECEPTACLES SHALL BE IN WEATHER PROOF BOX AND HAVE GFCI PROTECTION.
- FOR ITEMS FURNISHED BY OTHER TRADES, ELECTRICAL CONTRACTOR TO FULLY COORDINATE BREAKER AND WIRE SIZES WITH ACTUAL EQUIPMENT BEING CONNECTED PRIOR TO ROUGH-IN, OR INSTALLATION. THE SIZES ON PANEL SCHEDULES REFER TO BASIS OF DESIGN SELECTIONS, AND ACTUAL ITEMS MAY DEVIATE FROM BASIS OF DESIGN. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO CONFIRM REQUIRED WIRE AND BREAKER SIZES WITH THE CONTRACTOR FURNISHING THE EQUIPMENT.
- G. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR ALL DEVICE MOUNTING
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SCOPE OF WORK

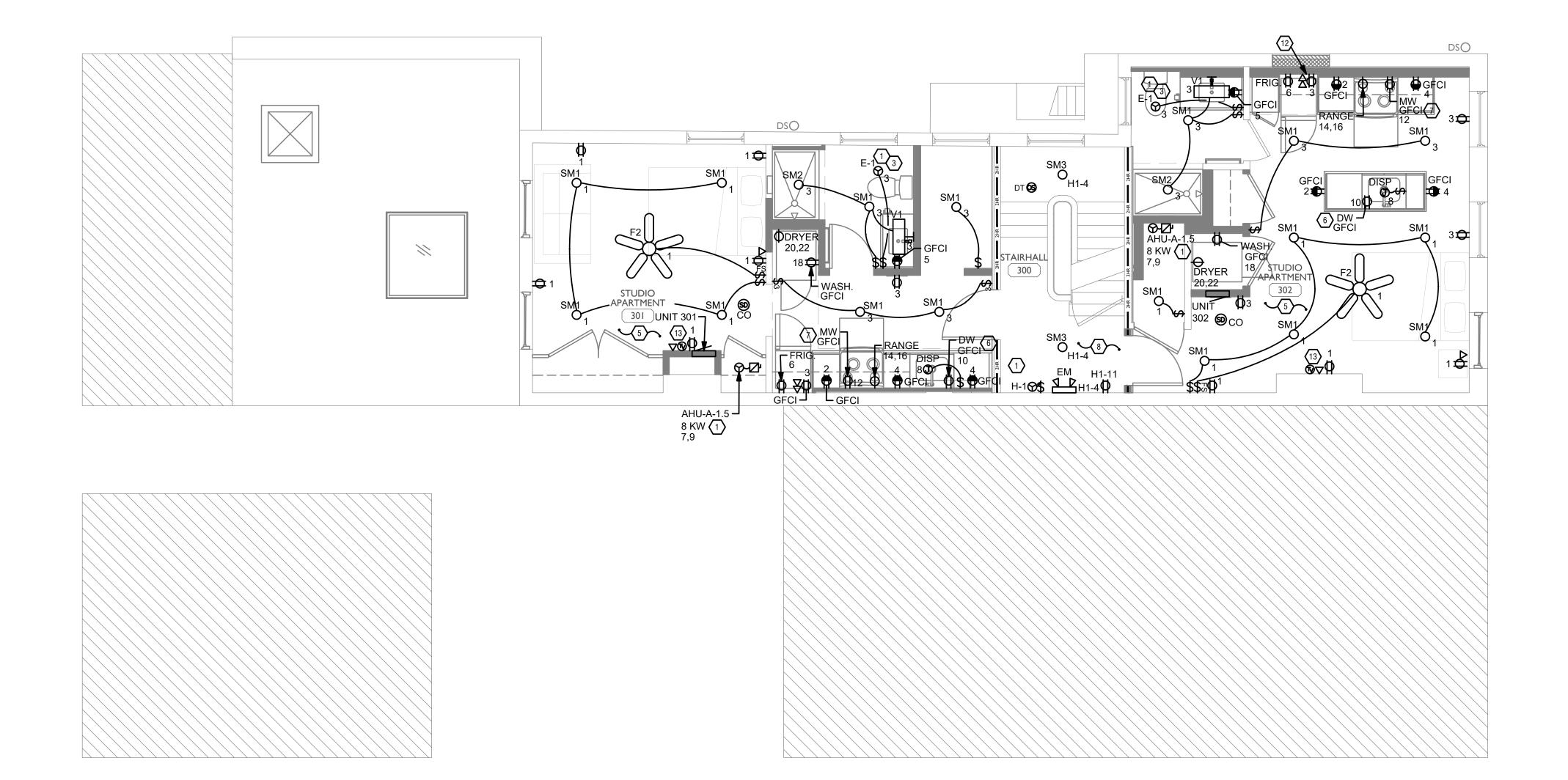
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GENERAL NOTES-OVERALL PROJECT

A. EBS DRAWINGS INDICATE DESIGN INTENT AND REQUIRED OUTCOMES. IF CONDITIONS ARISE IN THE FIELD THAT REQUIRE DEVIATIONS FROM THE DRAWINGS IT IS ASSUMED THAT THE CONTRACTOR WILL DETERMINE THE APPROPRIATE DEVIATION WITH APPROVAL FROM THE OWNER. EBS IS AVAILABLE TO ASSIST WHEN REQUIRED IF ISSUES ARISE.

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- A. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR DIMENSIONED LOCATIONS OF LIGHT FIXTURES.
- B. PROVIDE HOLD-ON-TYPE BREAKERS FOR EGRESS/EMERGENCY LIGHTING CIRCUITS. WIRE ALL EGRESS/EMERGENCY FIXTURES AHEAD OF ANY LOCAL SWITCHING.
- C. LIGHT FIXTURES CONTROLLED BY SWITCH IN SAME ROOM UNLESS OTHERWISE NOTED.
- WHERE DIMMERS AND/OR DIMMING SYSTEMS ARE REQUIRED, CONTRACTOR TO FURNISH DIMMERS THAT ARE COMPATIBLE WITH FIXTURE SOURCE AND RATED FOR THE WATTAGE OF THE DIMMING ZONE. PROVIDE ADDITIONAL DIMMERS AS REQUIRED TO MEET ZONE LOAD REQUIREMENTS.
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TLA architectu

Progress Dates 05/05/2023 BID P/E/FP

Revisions

hecked By: PRS

Drawn by: AJW



TEAMWORK • COLLABORATION
SHARED SUCCESS
515 Monmouth Street, Suite 204
Newport, KY 41071 (859) 261-0585
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NOVATION FOR 807 VINE ST. NCINNATI, OH, 45202

Job No: 22042

E1.03

Z:\~Project Directories\9700–9799\9757 – Findlay Flats Findlay Parkside (Willkommen ? Phase II)\~Construction Documents\~Phase 2 (3 Buildings)\1807 VINE\XREF—ART.dw
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ART. 406.12

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- D. ALL PANELS AND DISCONNECTS LOCATED OUTDOORS SHALL BE LABELED NEMA 3R.
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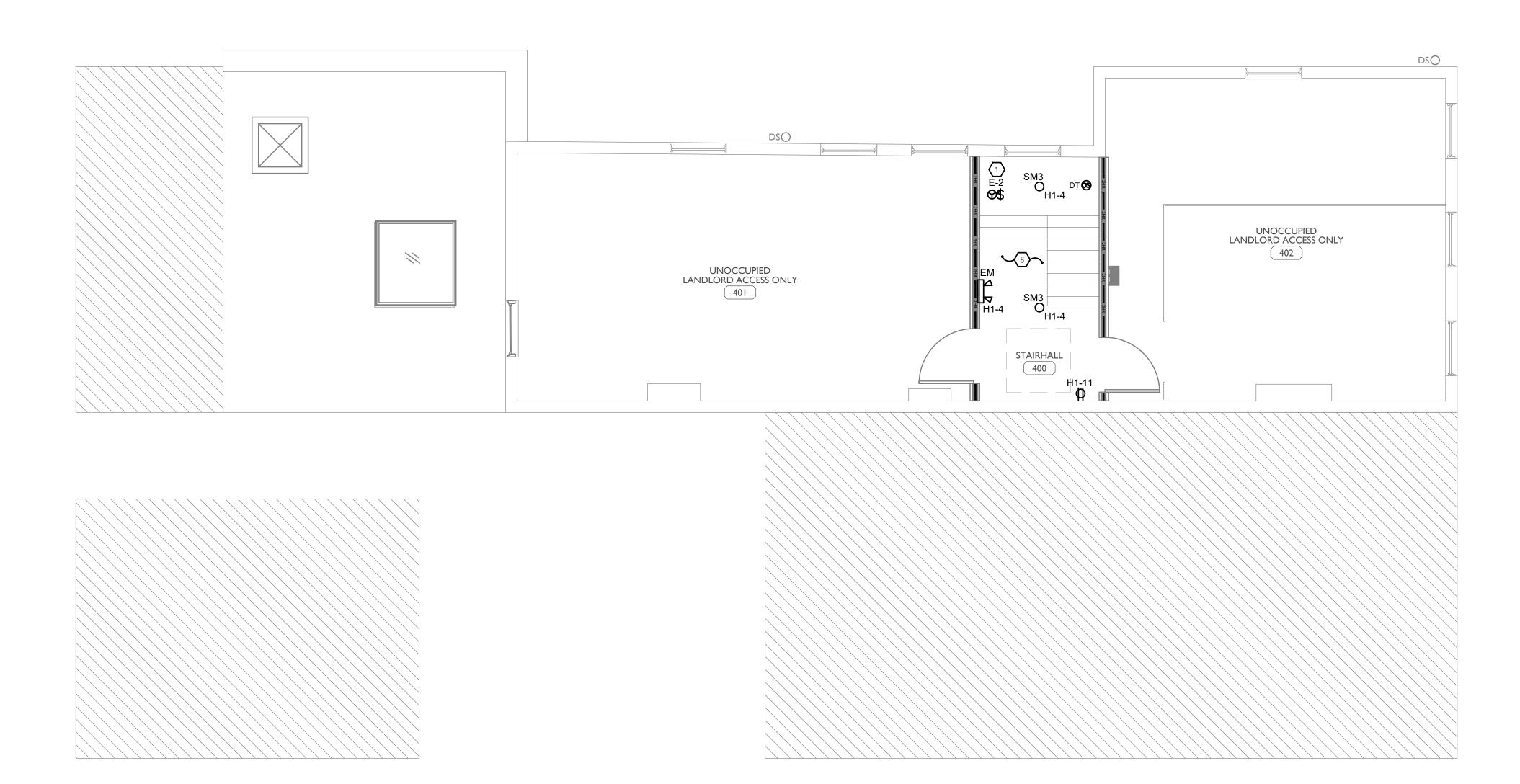
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Progress Dates 05/05/2023 BID P/E/FP

Revisions

Checked By: PRS

Drawn by: AJW



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515 Monmouth Street, Suite 204
Newport, KY 41071 (859) 261-0585
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NOVATION FOR **807 VINE ST.** ACINNATI, OH, 45202

Job No: 22042

E1.04

8/10/2022

Z:\~Project Directories\9700–9799\9757 – Findlay Flats Findlay Parkside (Willkommen ? Phase II)\~Construction Documents\~Phase 2 (3 Buildings)\1807 VINE\9757–E1–0£
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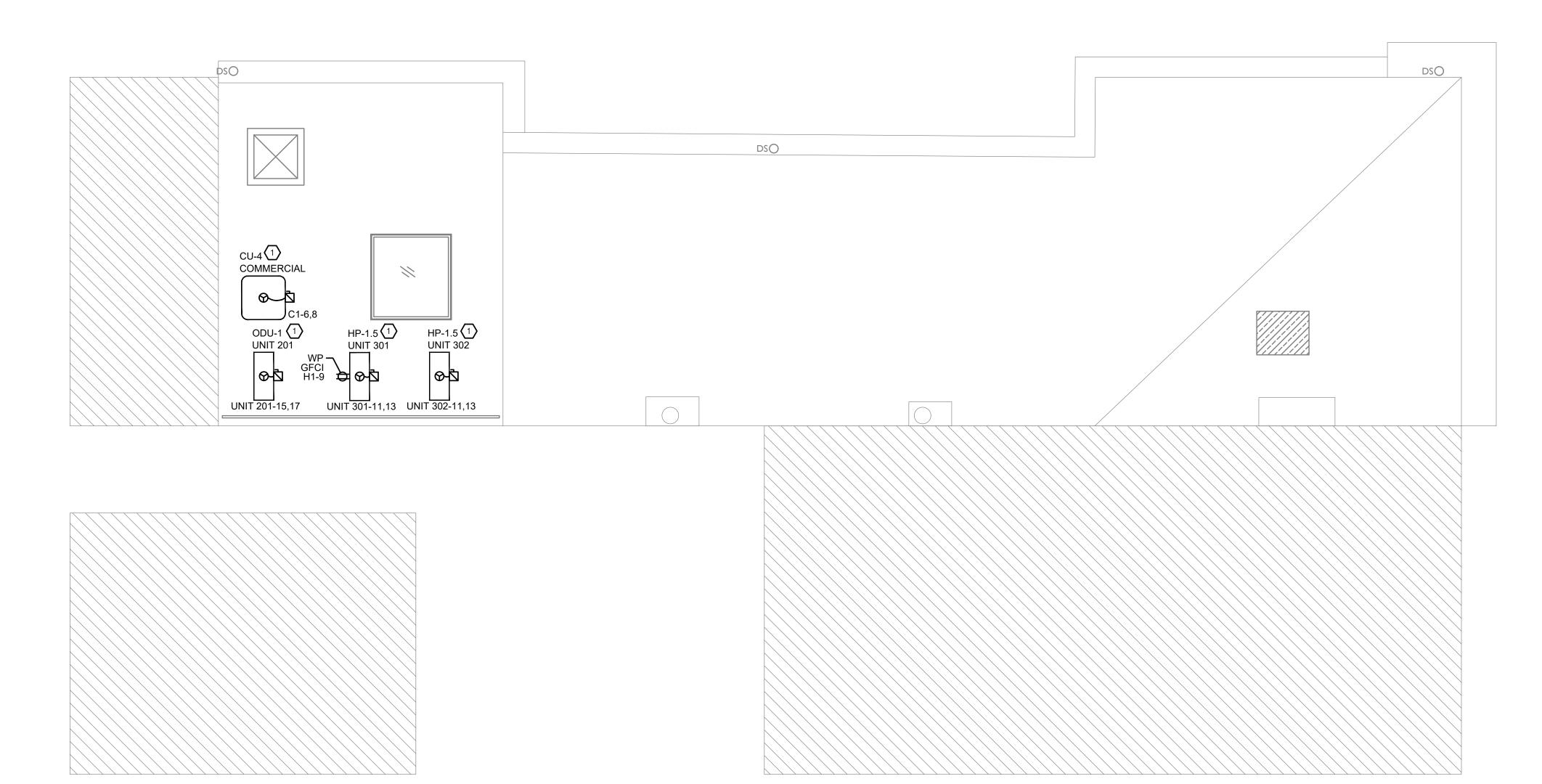
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DIMMERS AS REQUIRED TO MEET ZONE LOAD REQUIREMENTS.

- OTHERWISE NOTED. WHERE DIMMERS AND/OR DIMMING SYSTEMS ARE REQUIRED, CONTRACTOR TO FURNISH DIMMERS THAT ARE COMPATIBLE WITH FIXTURE SOURCE AND RATED FOR THE WATTAGE OF THE DIMMING ZONE. PROVIDE ADDITIONAL
- E. ELECTRICAL SWITCHES ON OPPOSITE SIDES OF A WALL ARE TO BE SPACED SO THAT THEIR ELECTRICAL BOX ARE A MINIMUM OF ONE STUD BETWEEN





Progress Dates 05/05/2023 BID P/E/FP

Checked By: PRS

Drawn by: AJW



TEAMWORK • COLLABORATION SHARED SUCCESS 515 Monmouth Street, Suite 204 Newport, KY 41071 (859) 261-0585 MEP Consulting Services, Inc. in OH

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Job No: 22042

8/10/2022

ELECTRICAL SPECIFICATIONS ON THIS MITEXT

General Demolition

a. Refer to architectural drawings, general notes, instructions to bidders, general conditions, supplementary general conditions, base building specifications and drawings, shop drawing manuals and as-built plans, except as noted herein, which apply in all respects to this section. The contractor shall visit the site and familiarize himself with all existing conditions prior to bidding the work

2. Use of Drawings And Specifications

a. EBS drawings and specifications are intended to convey design intent only. All means and methods sequences, techniques, and procedures of construction as well as any associated safety precautions and programs, and all incidental and temporary devices required to construct the project, and to provide a complete and fully operational electrical system are the responsibility of the electrical

a. Materials equipment and materials shall conform with appropriate provisions of NEC, ASTM, UL, ETL, NEMA, ANSI, as applicable to each individual unit or

4. Codes

a. All work shall be performed in strict accordance with all applicable state and local codes and ordinances. In case of conflict between the drawings/specifications and the codes and ordinances, the highest standard shall apply. The electrical contractor shall satisfy code requirements as a minimum standard without any extra cost to owner.

5. Permits and Fees

a. The electrical contractor shall procure and pay for all permits, fees and inspections necessary to complete the electrical work.

6. Warranty

a. The electrical contractor shall unconditionally warrant all work to be free of defects in material and workmanship for a period of one (1) year from the date of final acceptance, and will repair or replace any defective work promptly and without charge and restore any other existing work damaged in the course of repairing defective materials and workmanship.

7. Site Examination

2:\~Project Directories\9700–9799\9757 - Findlay Flats Findlay Parkside (Willkommen ? Phase II)\~Construction Documents\~Phase 2 (3 Buildings)\1807 VINE\XREF-ART.dn
THESE DRAWINGS AND SPECIFICATIONS ARE NOT AUTHORIZED TO BE USED AS CONTRACT DOCUMENTS. THESE DRAWINGS HAVE BEEN PREP,
TO DETERMINE CODE COMPLIANCE. THE INSTALLING CONTRACTOR IS RESPONSIBLE TO ENSURE THAT MEANS, METHODS, AND MATERIALS USI

- a. The electrical contractor shall thoroughly examine all areas of work where equipment will be installed and shall report any condition that, in his opinion, prevents the proper installation of the electrical work prior to bid. He shall also examine the drawings and specifications of other branches of work making
- reference to them for details of new or existing building conditions. b. All work shall be done at times convenient to the owner and only during normal
- working hours, unless specified otherwise. c. Electrical contractor shall take his own measurements and be responsible for
- d. Access panels are not shown on drawings. During site examination, contractor

shall identify all areas where access panels are required, and report to general contractor. Designation of who furnishes and who installs access panels must be coordinated with general contractor prior to starting work.

8. Contractor Coordination

a. The electrical drawings and specifications convey design intent only. Means and methods, sequences, techniques, and procedures of construction as well as any associated safety precautions and programs, and all incidental and temporary devices required to construct the project are the responsibility of the electrical

b. All systems installed by each sub-contractor shall be coordinated with one another and approved by general contractor/construction manager, etc. prior to installation and/or fabrication. Where the electrical contractor is making a connection to equipment/components that are furnished by others, electrical contractor to verify all connection requirements with actual equipment being connected, including but not limited to OCP size, means of disconnect, special connection requirements, or other items indicated on shop drawings, or manufacturer's installation instructions and/or installation diagrams, and furnish all labor and materials required for the installation and operation of the equipment. No allowances will be made for failure to coordinate, after electrical connections have been installed.

c. If questions concerning design intent arise during coordination, EBS can assist where appropriate.

d. The architectural drawings shall take precedence over all other drawings. Do not

scale distances off the electrical drawings; use actual building dimensions. e. Coordination drawings showing system and component installation layout, routing, details, etc. shall be produced by the electrical contractor and under the supervision of the general contractor/construction manager, or appropriate party as applicable. All systems installed by each sub-contractor shall be coordinated with one another and approved by general contractor/construction manager, etc. prior to installation and/or fabrication. If questions concerning design intent arise during coordination, EBS can assist where appropriate.

9. Utility Coordination a. Electrical contractor to verify installation of metering and utility demarcation equipment with utility provider prior to start of work and furnish and install

required items per utility company's installation requirements and/or manuals. 10. Submittals

a. Products installed by the electrical contractor and provided by others must be submitted for review prior to purchasing. Products shall not be selected based on permit drawings without express permission - products shall be selected based on construction drawings.

11. Record Drawing

Shop Drawings

a. The electrical contractor shall be responsible for creating record drawings where required. Drawings shall be produced in Autocad 2004 format or later.

a. Submit to the architect pdf file copies of complete & certified shop drawings, descriptive data, performance data & ratings, diagrams and specifications on all specified equipment, including accessories, and materials for review.

b. The make, model number, type, finish & accessories of all equipment and materials shall be reviewed & approved by the electrical contractor & general contractor prior to submitting to the architect for their review & approval.

c. Review of shop drawings does not relieve the electrical contractor/vendor from compliance with the requirements of the contract drawings, specifications & applicable codes.

a. All electrical systems shall be tested for proper operation. Balance all branch circuit loads between the phases of the system to within 10% of the highest phase load in each panelboard.

a. The electrical contractor shall provide temporary electrical wiring for construction. The temporary service shall be a minimum of 60 amps, single phase, three wire, 120/208 volts fused at main disconnect. All receptacles on this temporary

service shall be protected by a GFI breaker. 15. Mechanical Equipment

a. All final connections to mechanical equipment shall be done by the electrical contractor.

Demolition a. The electrical contractor shall be responsible for deenergizing circuits in demolition areas to insure a safe condition. Electrical devices and associated wiring located within the demolition area that will no longer be used shall be removed and properly disposed of at contractor's expense unless otherwise

17. Power Outages

a. The electrical contractor shall schedule all electrical system(s) outages with the general contractor and owner at least 24 hours in advance. Unless approved otherwise all outages shall occur between 11:00pm and 5:00am.

a. Contractor to provide grounding and bonding as required for electrical systems. Grounding and bonding is considered means and methods of construction, and should be completed by the electrical contractor in accordance with NEC 250.

b. Any gas piping systems must be bonded per utility provider's installation guidelines where required.

a. Provide all new material and equipment unless noted otherwise. All equipment shall be UL approved and labeled, or other approved testing organization which has acceptance by the local jurisdiction, for the purpose for which they are used, in addition to meeting all requirements of the current applicable codes and regulations. No substitution to materials specified will be allowed unless approved

b. Electrical contractor shall not order or purchase any materials or equipment until permit drawings have been approved. No allowances will be made for any

changes that occur if permit drawings have not been approved prior to ordering. 20. Cutting and Fitting

a. Perform cutting, coring, fitting, repairing and finishing of the work necessary for the installation of the equipment of this section. However, no cutting of the work of other trades or of any structural member shall be done without the consent of the owner. Properly fill, seal, fireproof, and waterproof all openings, sleeves, and holes in slabs, walls, and casework.

21. Wiring Methods

a. Provide code approved wiring methods for branch circuiting indoors, such as NM cable (only where permitted by NEC 334), EMT conduit, or MC cable for mechanical equipment, lighting, and power.

b. Conduit runs on exterior of building shall be rigid steel conduit with weather tight, corrosion-resistant fittings. Schedule 40 PVC is acceptable where permitted by code and or underground runs or concrete encasement where not exposed to physical damage.

c. The minimum size of conduit shall be 3/4" unless otherwise noted. Conduit connectors shall be double locknut type, UL listed and labeled, with compression or set screw fittings.

d. Rigid conduit shall be hot dipped galvanized.

e. Where raceways are installed for others to use, or for future use, provide nylon

f. Penetrations through fire rated construction shall be sealed using 3M fire barrier caulk, Nelson Electric Flameseal or T&B Flamesafe or other approved method. 22. Conductors and Terminations

a. Branch conductors shall be copper, feeders as indicated on riser diagram.

Conductors shall be insulated for 600v number 12 AWG minimum. Provide wires and cables as indicated listed and suitable for temperature, conditions, and location where installed.

23. Motors and Other Wiring a. The electrical contractor shall provide all required conduit, wiring, and safety switches for all motors, and other electrical equipment, even though the motors and electrical equipment may be supplied by others. The electrical contractor shall include all work and connections required to make the system complete and operational. Provide magnetic starters for equipment as indicated on the

b. The electrical equipment may include but not be limited to such items as grille motors and interlocks, exterior and interior signage, starting devices, motor controllers, float switches, alarm devices or systems, push buttons, exhaust fans, data systems, intercoms and stereo systems. The electrical contractor shall verify equipment location and sizes with the trade supplying the equipment

before installing the conduit or outlets.

a. Hubbell, Leviton, or approved equal with matching coverplates b. Provide specification grade wiring devices, in types, characteristics, grades, colors, and electrical ratings for applications indicated, which are UL-listed and which comply with NEMA WD1 and other applicable UL and NEMA standards. Verify color selections with architect. Provide device plates to match device

c. Provide GFCI protection for all kitchen 15 and 20-amp receptacles. Where the receptacle is rendered inaccessible by equipment provide GFCI protection at the circuit breaker.

25. Service entrance and distribution equipment

a. Electrical contractor must submit drawings for permit and receive approval prior to ordering equipment. No allowances will be made for equipment changes that occur prior to receipt of approved plans.

26. Disconnects and Fused Switches

a. Heavy duty type, horsepower rated with interlocking cover. NEMA 1 typical. Outdoor and wet location switches shall be raintight type NEMA 3Rr. All switches shall be lockable. Fuses in circuits rated at 600 amperes or less shall be UL class RK1 dual-element, time-delay, current limiting fuses. Fuses in circuits rated at 601 amperes or larger shall be UL class I time-delay, current limiting fuses.

27. Nameplates

a. Provide permanent nameplate labeling on all disconnects. Include load served, voltage, phase, horsepower, fuse size, and type.

28. Mounting

a. Mount independent of the mechanical unit housing unless specifically accepted by the local code authority. Provide Unistrut support channels mounted in coordination with roof penetration and patching work. Coordinate with general

29. Grounding and bonding for electrical systems and equipment

a. Provide grounding and bonding for electrical service in accordance with NEC article 250.

b. All major parts not carrying current, including but not limited to, secondary feeder circuit, equipment and panelboard enclosures, pull and junction boxes, shall be properly grounded. Metallic raceways shall utilize double locknuts and other fittings as required to provide ground continuity.

30. Multi-tenant Meter Centers a. Provide meter centers(s) as shown on the drawings and as specified herein. Meter centers shall have main lugs only or main breakers as required, and shall have branch breaker installed for each meter socket. Meter centers shall be Eaton, Square D, GE by ABB, or equal, and shall be of the same manufacture as load centers or panelboards served. Meter centers shall be enclosed NEMA 1, NEMA 3R as required. Final configuration (number of meters per section. end-main/center-main, etc. shall be determined by contractor. All bussing must be rated for the loads served. Meter centers shall be rated to withstand the available fault current.

31. Panelboards

a. Provide branch circuit panelboard(s) as shown on the drawings and as specified herein. Panelboards shall have bolted, thermal and magnetic breakers with main lugs only or main breakers as required. Panelboards shall be Eaton. Square D. GE by ABB, or equal, and be enclosed in NEMA 1 type housing unless noted otherwise. Enclosure(s) shall be complete with a hinged door, cylinder lock, and a neatly typed directory under plastic cover in each panel door. All multiple pole breakers shall have a common trip handle. All panels and breakers shall be rated to withstand available fault current.

32. Residential Load Centers

a. Provide load centers as shown on drawings and as specified herein. Load centers shall be Eaton, Square D, GE by ABB, or equal. Load centers shall contain a neatly typed directory in each door. All multiple pole breakers shall have a common trip handle. All panels and breakers shall be rated to withstand available fault current. Load centers may be used in areas other than dwelling units where appropriate and where approved by Owner's representative.

a. Provide a new lighting system complete and fully operational and in conformance with code and UL listing requirements. Clean all fixtures at time of job completion utilizing manufacturers approved or recommended cleaning solutions. All fixtures and lamps are provided by this contractor as scheduled unless noted otherwise. Contractor shall furnish all boxes, mounting kits, transformers, controllers, and other components necessary for a complete and fully functional installation.

b. Where dimmers and/or dimming systems are required, contractor to furnish dimmers that are compatible with fixture source and rated for the wattage of the dimming zone. Provide additional dimmers as required to meet zone load

a. Telephone wiring and system provided by owner. Verify system requirements and rough-in locations with owner prior to start of construction. Electrical contractor shall provide plaster ring and pull string from each device location to above accessible ceiling.

35. Security System Notes

a. Security wiring and system provided by owner. Verify system requirements and rough-in locations with owner prior to start of construction. Provide power for

owner's head-end equipment and remote power for secure doors as required.

36. Data/Pos/A-V/System Notes a. Data, POS and/or A-V wiring and systems provided by owner. Verify system requirements and rough-in locations with owner prior to start of construction. Electrical contractor shall provide plaster ring and pull string from each device location to above accessible ceiling.

37. Fire Alarm System

a. Fire alarm system to be design-build by contractor. Contractor shall provide all required drawings and submit to authorities. Refer to architect's code sheet for relevant design criteria. Submit drawings to Owner/Architect for review prior to submitting to authorities. Provide required items including but not limited to relay modules, monitor modules, return-air detectors, elevator recall, etc. Provide remote annunciator panel(s) at location(s) approved by Architect and authorities.

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Progress Dates 05/05/2023 BID P/E/FP

Checked By: PRS

Revisions



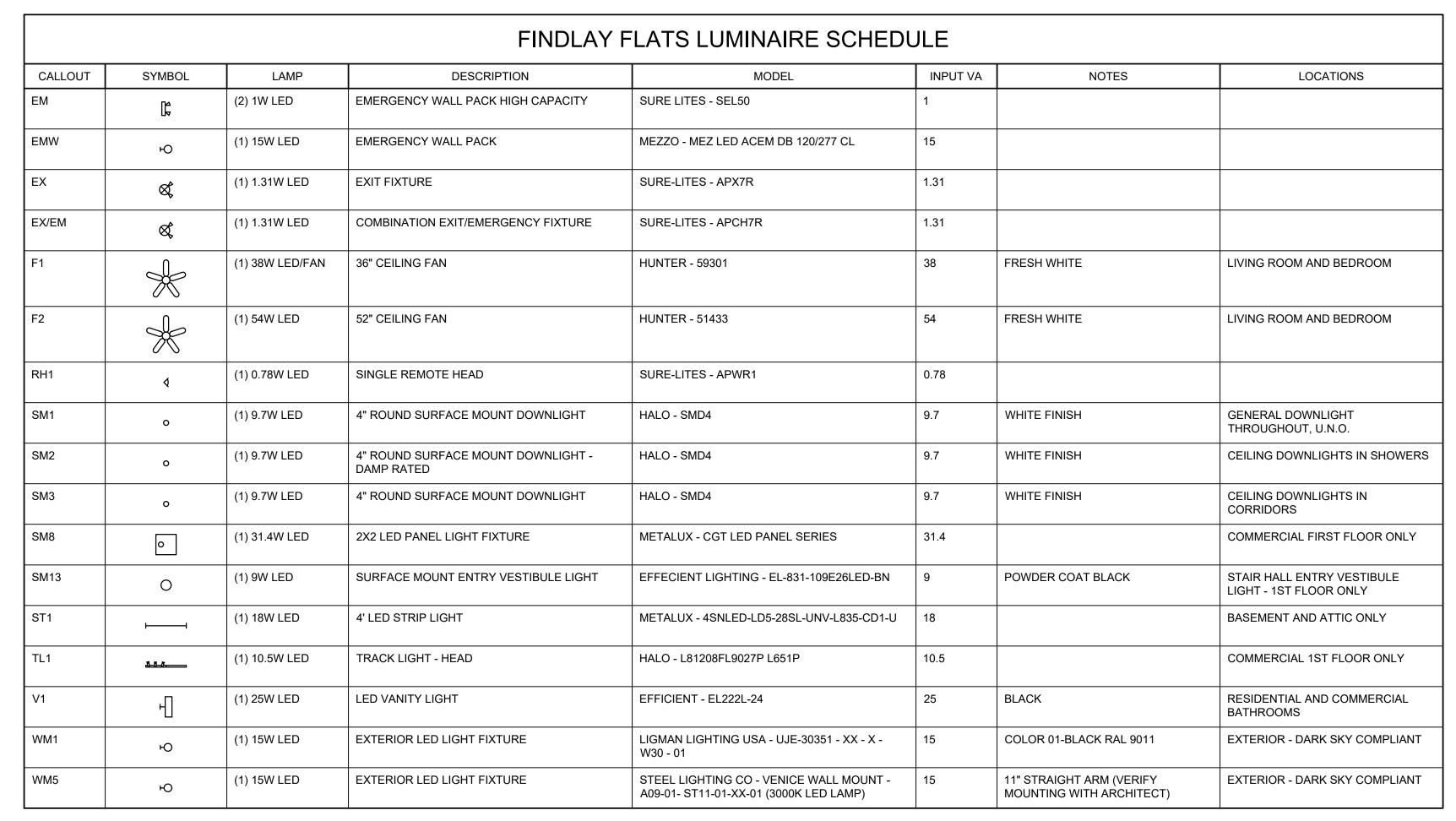
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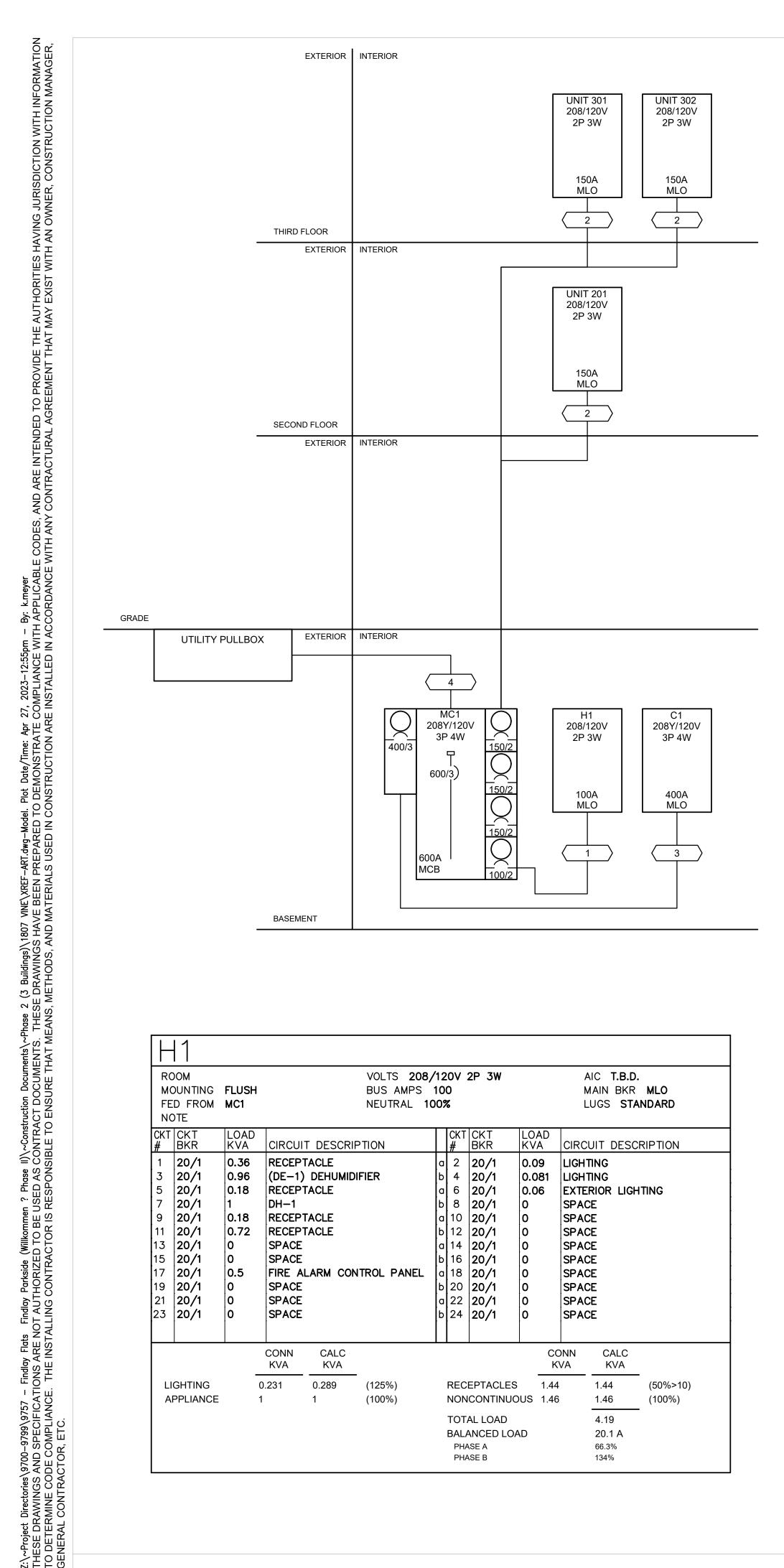
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Job No: 22042 8/10/2022

ELECTRICAL DETAILS





M(DOM DUNTING D FROM DTE	FLUSH MC1			VOLTS 208 BUS AMPS NEUTRAL 1	10	0	2P 3W			N	AIC T.B.D. MAIN BKR MLO LUGS STANDARD			
CKT #	CKT BKR	LOAD KVA	CIRCUI	T DESCRI	PTION		CKT #	CKT BKR	LO/ KV/		CIRC	UIT DESC	RIPTION		
1 3 5 7 9 11 13 15 17 19 21 23	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	0.36 0.96 0.18 1 0.18 0.72 0 0 0.5 0	RECEPT DH-1 RECEPT RECEPT SPACE SPACE	DEHUMID FACLE FACLE FACLE	NTROL PANEL	рарара	4 6 8 10 12 14 16 18	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	0.0 0.0 0 0 0 0 0 0	81	LIGH LIGH EXTE SPAC SPAC SPAC SPAC SPAC SPAC	TING ERIOR LIGH DE	HTING		
	GHTING	0	CONN KVA	CALC KVA 0.289	- (125%)			EPTACLES		K\ 1.44		CALC KVA	- (50%>10)		
A	PPLIANCE	1		1	(100%)		TOTA BALA PHA	ICONTINUO AL LOAD ANCED LO ASE A ASE B		1.46		1.46 4.19 20.1 A 66.3% 134%	(100%) -		

SCOPE OF WORK RENOVATION OF EXISTING BUILDING MULTIFAMILY BUILDING WITH COMMERCIAL FIRST FLOOR. PROVIDE NEW ELECTRICAL DISTRIBUTION, POWER AND LIGHTING. SEE SINGLE LINE DIAGRAM FOR MORE DETAILS.

GENERAL NOTES-OVERALL PROJECT

A. EBS DRAWINGS INDICATE DESIGN INTENT AND REQUIRED OUTCOMES. IF CONDITIONS ARISE IN THE FIELD THAT REQUIRE DEVIATIONS FROM THE DRAWINGS IT IS ASSUMED THAT THE CONTRACTOR WILL DETERMINE THE APPROPRIATE DEVIATION WITH APPROVAL FROM THE OWNER. EBS IS AVAILABLE TO ASSIST WHEN REQUIRED IF ISSUES ARISE.

	FEEDER SCHEDULE
ID	CONDUIT AND FEEDER
1	1-1/4"C,2#1 AL,#1 AL N,#6 AL G
2	2#2/0 AL,#2/0 AL N,#4 AL G
3	(2)2-1/2"C,3#250kcmil AL,#250kcmil AL N,#1 AL G
4	(2)3"C,3#500kcmil AL,#500kcmil AL N

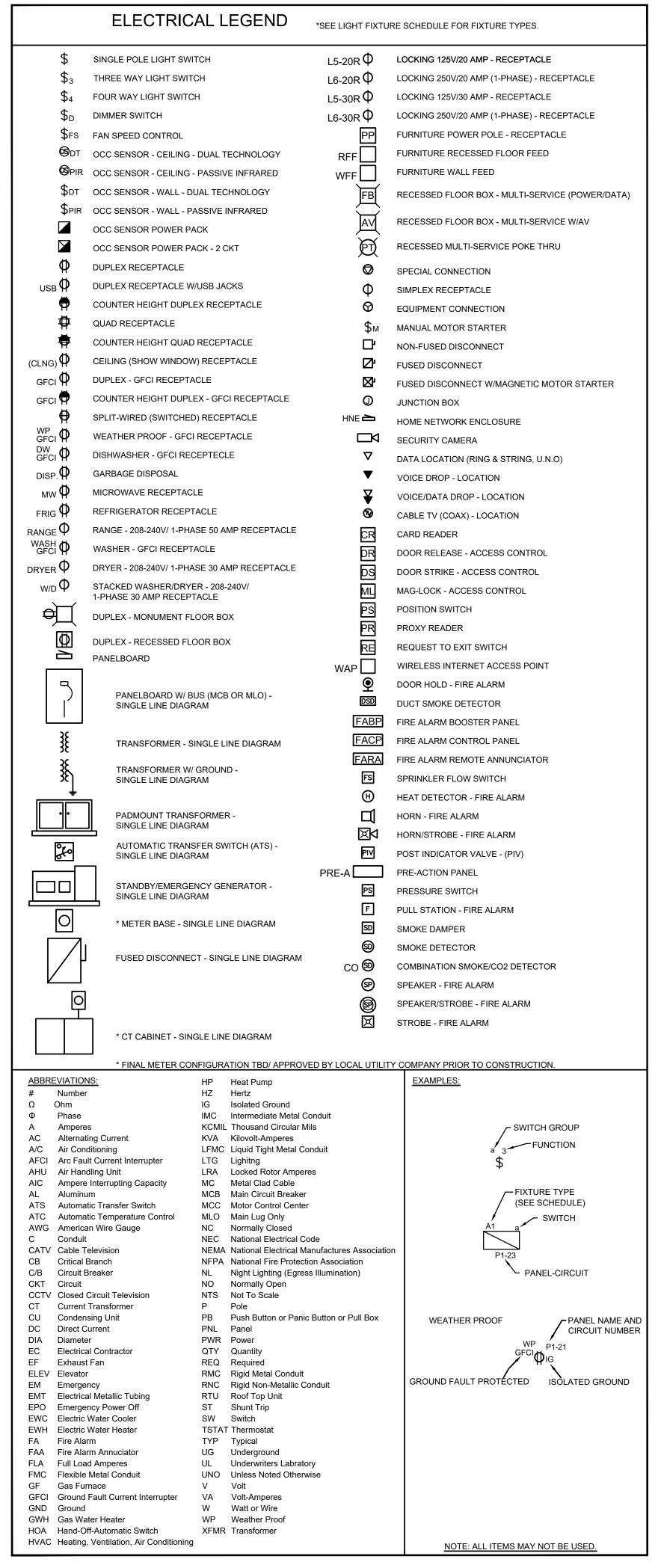
SIZING METHOD: COMPACT AL 75°C 100A AND ABOVE, CU 75°C BELOW 100A

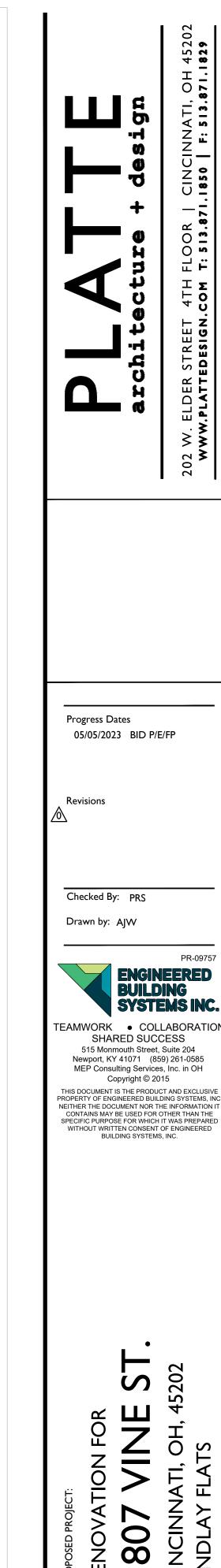
GENERAL NOTES-SINGLE LINE DIAGRAM

- ALL BREAKERS SHALL BE RATED TO WITHSTAND THE AVAILABLE FAULT CURRENT AT THEIR LOCATION. WHERE SERIES- RATED COMBINATIONS ARE USED IN ACCORDANCE WITH NEC 240.86 (B) AND (C) THE CONTRACTOR AND/OR HIS EQUIPMENT SUPPLIER MUST PROVIDE APPROPRIATE DOCUMENTATION AND LABELING.
- WHERE BREAKERS WITH ADJUSTABLE SETTINGS ARE FURNISHED TO THE PROJECT. THE MANUFACTURER'S REP SHALL IDENTIFY AND PROVIDE THE APPROPRIATE SETTINGS TO THE ELECTRICAL CONTRACTOR FOR HIS USE IN INSTALLATION.
- PANEL SCHEDULES INDICATE BREAKER SIZE ONLY, PROVIDE AFCI/GFCI PROTECTION AS REQUIRED BY NEC. COORDINATE FINAL BREAKER SIZES/TYPES FOR ITEMS FURNISHED BY OTHERS WITH SHOP DRAWINGS OR PRODUCT INFORMATION FOR ACTUAL EQUIPMENT BEING CONNECTED
- ELECTRICAL CONTRACTOR SHALL NOT ORDER OR PURCHASE ANY MATERIALS OR EQUIPMENT UNTIL PERMIT DRAWINGS HAVE BEEN APPROVED BY AHJ. PROVIDE SELECTIVE COORDINATION FOR EMERGENCY SYSTEM
- OVERCURRENT PROTECTION DEVICES IN ACCORDANCE WITH NEC 700.27. PROVIDE GROUND-FAULT PROTECTION FOR EQUIPMENT IN ACCORDANCE WITH NEC 240.13 AND NEC 230.95.
- OVERCURRENT PROTECTION DEVICES SUPPLYING TRANSFORMERS WHICH ARE NOT LOCATED WITHIN SIGHT OF THEIR OVERCURRENT PROTECTION SHALL BE LOCKABLE AND THE TRANSFORMER SHALL BE FIELD MARKED WITH THE LOCATION OF THE OVERCURRENT PROTECTION DEVICE.
- CONTRACTOR TO PROVIDE GROUNDING AND BONDING AS REQUIRED FOR ELECTRICAL SYSTEMS. GROUNDING AND BONDING IS CONSIDERED MEANS AND METHODS OF CONSTRUCTION, AND SHOULD BE COMPLETED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH NEC 250. GAS PIPING SYSTEMS MUST BE BONDED PER UTILITY PROVIDER'S INSTALLATION GUIDELINES WHERE REQUIRED.

	ITING FLUSH FROM UTILITY	PULLBOX	BUS	TS 208Y/ S AMPS 6 0 ITRAL 10 0	00	P 4W			AIC T.B.D. MAIN BKR 6 LUGS STAND		
KT	BREAKER TRIP/POLES	CIRCUIT DESCRIP	PTIONI	-		OAD KV		FEEDED I	RACEWAY AND CO	NIDHCTORS	
# 1 2 3 4 5	400/3 100/2 150/2 150/2 150/2	C1 H1 UNIT 201 UNIT 301 UNIT 302	TION		6.86 16.9 21.5	B 4.82 1.37 20.4 21.1	C 4.49 2.76 18 20.8	(2)2-1/4"(1-1/4"(2#2/0 / 2#2/0 /		il AL,#250kcm N,#6 AL G #4 AL G #4 AL G	nil AL N,#1 AL (
		TOTAL CONN	ECTED KVA B	Y PHASE	45.3	47.8	46				
OPTIC	NAL MULTIFAM	ILY DWELLING CALO	CULATION (NEC	220.84)				•			
				[DWELLIN	G UNIT L	OADS				
			KVA							KVA	
LIGH	ITING AND RECI	EPTACLES	4.75	1,583 SF		CON	NECTED	LOAD		117	•
	LL-APPLIANCE		9	(3 VA/SF)		DWE	LLING U	NITS		3	
	NDRY		4.5			DEM	AND FAC	CTOR		(45%)	
	LIANCES		42.3			CAL	CULATED	LOAD		52.9	
ELE	CTRIC COOKING)	25.5								
MOT	ORS		0.75								
	TING		30.7	(100%)							
COC	DLING		10.6	(0%)							
					HOU	SE LOAD	S				
		CONN KVA	CALC KVA	_					CONN KVA	CALC KVA	
	ITING	0.561	0.701	(125%)		REC	EPTACLE	S	3.78	3.78	(50%>10)
	GEST MOTOR	6.82	1.71	(25%)			TINUOUS		4.5	5.63	(125%)
МОТ	ORS	2.18	2.18	(100%)			CONTINU	JOUS	1.46	1.46	(100%)
						COO	LING		6.82	6.82	(100%)
						TOT	AL HOUS	E LOAD		22.3	
					TOT	TAL LOAD)				
			KVA							KVA	
TOT	AL DWELLING U	NIT LOAD	52.9	-		ТОТ	AL LOAD			75.1	•
TOT	AL HOUSE LOAI)	22.3			BALA	ANCED 3-	PHASE LC	AD	209 A	

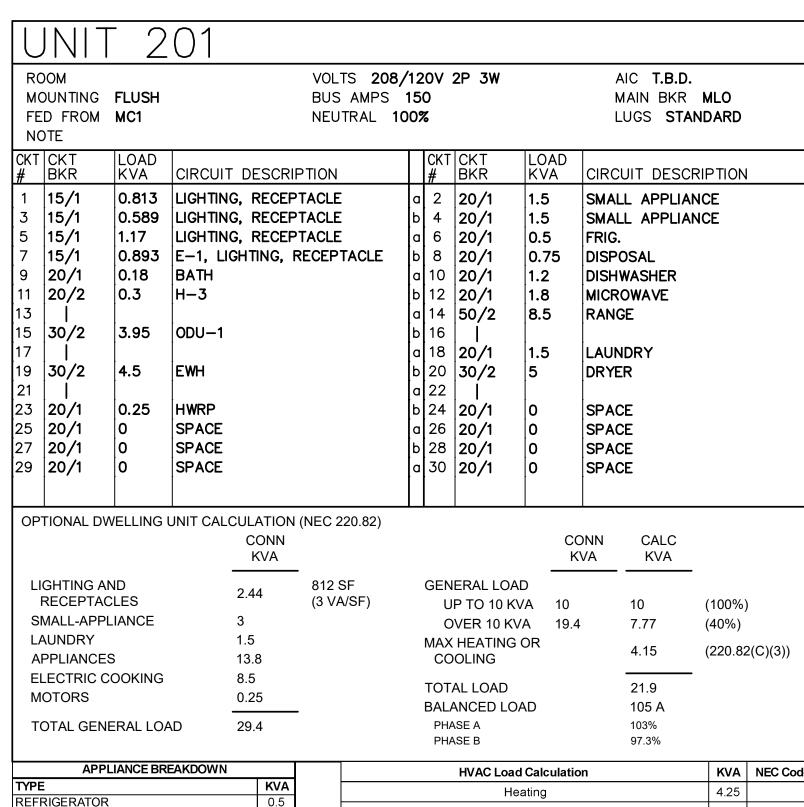
Meter Center Breakdown (MC)								
220.84 Multi-Family Calculation	KVA	Qty	Total KVA					
UNIT 201	33.69	1	33.69					
UNIT 301	41.41	1	41.41					
UNIT 302	41.36	1	41.36					
Total Quantity and Connecte	ed Load =	3	116.46					





Job No: 22042

8/10/2022



DISHWASHER

DISPOSAL

MICROWAVE

WATER HEATER

HOW WATER RECIRC PUMP

APPLIANCE BREAKDOWN

REFRIGERATOR

DISHWASHER

DISPOSAL

TOTAL

MICROWAVE

WATER HEATER

HOW WATER RECIRC PUMP

KVA

14.00

0.25

TOTAL LOAD	21.9			Multi-Family Dwelling Unit Calc	KVA
BALANCED LOAD	105 A			Total General Load	29.44
PHASE A PHASE B	103% 97.3%			Largest Heating or Cooling Load 220.84	4.25
PHASE B	97.376			220.84 CONNECTED LOAD CALC	33.69
HVAC Load Calculation		KVA	NEC Code		
Heating		4.25			
Coolina		3.95			

3.95 220.82 C(1)

4.15 220.82 C(3)

4.25 220.84 C(5)

KVA NEC Code

3.33 220.82 C(1)

9.77 220.82 C(3)

13.23 220.84 C(5)

13.23

3.33

0.00

0.00

Mini Split

100% of Nameplate Rating of AC and Cooling

Heat Pump plus 65% of Supplemental Heat

Largest Heating or Cooling Load

HVAC Load Calculation

Heating

Cooling

Mini Split

100% of Nameplate Rating of AC and Cooling

Heat Pump plus 65% of Supplemental Heat

Largest Heating or Cooling Load

100% of Nameplate Rating of Heat Pump w/o Supplmental Heat | 0.00 | 220.82 C(2)

100% of Nameplate Rating of Heat Pump w/o Supplmental Heat | 0.00 | 220.82 C(2)

M(FE	DOM DUNTING D FROM DTE				VOLTS 208 BUS AMPS NEUTRAL 1	15	0	2P 3W	AIC T.B.D. MAIN BKR MLO LUGS STANDARD					
	CKT BKR 15/1 15/1 20/1 60/2 25/2 30/2 20/1 20/1 20/1 20/1 20/1	LOAD KVA 0.993 0.534 0.18 9.9 3.33 4.5 0.25 0 0 0	LIGHTIN	•		рарар	# 2 4 6 8 10 12 14 16 18 20 22 24 26	20/1 30/2 20/1 20/1 20/1	1. 1. 0. 0. 1.		SMAL SMAL FRIG. DISP	OSAL WASHER OWAVE GE IDRY GR CE CE	NCE	
LI SI L/ A EI M	GHTING A RECEPTA MALL-APP AUNDRY PPLIANCE LECTRIC (OTORS	IND CLES PLIANCE		CULATION CONN KVA 1.18 3 1.5 13.8 8.5 0.25 28.2	(NEC 220.82) 393 SF (3 VA/SF)		U MAX CO TOT, BAL,	ERAL LOPER TO 10 VER 10 ING OLING AL LOAD ANCED LASE A ASE B	KVA KVA G OR	10 18.2		CALC KVA 10 7.27 9.76 27 130 A 102% 97.9%	(100%) (40%) (220.82(C)(3))	

2:\~Project Directories\9700-9799\9757 - Findlay Flats | Findlay Parkside (Willkommen ? Phase ||)\~Construction Documents\~Phase 2 (3 Buildings)\1807 VINE\XREF-ART.dwg-Model. Plot Date/Time: Apr 27, 2023-12:55pm - By: k.meyer THESE DRAWINGS AND SPECIFICATIONS ARE NOT AUTHORIZED TO BE USED AS CONTRACT DOCUMENTS. THESE DRAWINGS HAVE BEEN PREPARED TO DEMONSTRATE COMPLIANCE WITH APPLICABLED AS CONTRACTOR IS RESPONSIBLE TO ENSURE THAT MEANS, AND MATERIALS USED IN CONSTRUCTION ARE INSTALLING CONTRACTOR IS RESPONSIBLE TO ENSURE THAT MEANS, AND MATERIALS USED IN CONSTRUCTION ARE INSTALLING CONTRACTOR IS RESPONSIBLE TO ENSURE THAT MEANS, AND MATERIALS USED IN CONSTRUCTION ARE INSTALLING CONTRACTOR IS RESPONSIBLE TO ENSURE THAT MEANS, METHODS, AND MATERIALS USED IN CONSTRUCTION ARE INSTALLING CONTRACTOR.

Total General Load	00.40
	28.18
Largest Heating or Cooling Load 220.84	13.23
220.84 CONNECTED LOAD CALC	41.41

П	<u> </u>	г 	$\overline{\bigcirc \bigcirc}$											1	
	V	5	UZ												
M FE	OOM OUNTING ED FROM OTE	FLUSH MC1			BUS AM	VOLTS 208/120V 2P 3W AIC T.B.D. BUS AMPS 150 MAIN BKR MLO NEUTRAL 100% LUGS STANDARD									
CKT #	CKT	LOAD KVA	CIRCUI	T DESCR	IPTION		CKT #	CKT	LOA KVA		CUIT DESC	CRIPTION]	
1 3 5 7 9 11 13 15 17 19 21 23 25 27	1 15/1 0.652 LIGHTING, RECEPTACLE 0.884 E-1, LIGHTING, RECEPTACLE 0.18 BATH 0.60/2 9.9 AHU-A-1.5 1					E E C C C C C C C C	2 4 6 8 10 12 14 16 18 20 24 26 28	20/1 20/1 20/1 20/1 20/1 20/1 50/2 20/1 30/2 20/1 20/1	1.5 1.5 0.75 1.2 1.8 8.5 1.5 5	SMA SMA FRIG DISI DISI MIC RAN	ALL APPLIA ALL APPLIA COSAL HWASHER ROWAVE IGE NDRY ER ACE ACE ACE	ANCE			
L	IGHTING A RECEPTAG	ND CLES	UNIT CAL	CULATION CONN KVA 1.13	N (NEC 220.82 - 378 SF (3 VA/SF)	,	U	NERAL LOA JP TO 10 K OVER 10 K	(VA	CONN KVA	CALC KVA 10 7.25	(100%))		
LAUNDRY 1.5 APPLIANCES 13.8						MAX	HEATING OOLING		18.1	9.76	(40%) (220.82	2(C)(3))			
ELECTRIC COOKING 8.5 MOTORS 0.25 TOTAL GENERAL LOAD 28.1			_	TOTAL LOAD BALANCED LO PHASE A PHASE B					27 130 A 101% 99.3%			Multi-Family Dwelling Unit Calc Total General Load Largest Heating or Cooling Load 220.84 220.84 CONNECTED LOAD CALC	 - -		
TYP		LIANCE BR	EAKDOWN	ΙκνΔ				HVAC Loa	ıd Calcu	lation		KVA	NEC Code		

		PHASE B 99.3%						
APPLIANCE BREAKDOW	N	HVAC Load Calculation	KVA NEC Code					
TYPE	KVA	Heating	13.23					
REFRIGERATOR	0.5							
DISHWASHER	1.2	Cooling	3.33					
DISPOSAL	0.75	Mini Split	0.00					
MICROWAVE	1.8	100% of Nameplate Rating of AC and Cooling	3.33	220.82 C(1)				
WATER HEATER	4.5	100% of Nameplate Rating of Heat Pump w/o Supplmental Heat	0.00	220.82 C(2)				
DRYER	5	· · · · · · · · · · · · · · · · · · ·	-	` ´				
HOW WATER RECIRC PUMP	0.25	Heat Pump plus 65% of Supplemental Heat	9.77	220.82 C(3)				
TOTAL	14.00	Largest Heating or Cooling Load	13.23	220.84 C(5)				

rgest Heating or Cooling Load 220.84 13.2

) OM				VOLTS 2088	/ /1	201/	3D 4W			UC TRD		
MC FE	DUNTING D FROM DTE	FLUSH MC1			VOLTS 208 Y BUS AMPS NEUTRAL 1 (AIC T.B.D. MAIN BKR MLO LUGS STANDARD							
KT	CKT BKR	LOAD KVA	CIRCUI	Γ DESCR	IPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION			
1357)1357913579135791	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	0.295 0.495 1.08 0.9 0 0 0 0 0 0 0 0 0 0	LIGHTIN E-3, LI RECEPT RECEPT SPACE	GHTING, ACLE	RECEPTACLE	а р с а р с а р с а р с а р с	4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40	30/2 50/2 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	4.5 6.82 2.08 0 0 0 0 0 0 0 0 0 0 0	GF-4 SPAC SPAC SPAC SPAC SPAC SPAC SPAC SPAC			
			CONN KVA	CALC KVA	_		<u> </u>			DNN IVA	CALC KVA		
LIGHTING LARGEST MOTOR			0.33 6.82	0.412 1.71	(125%) (25%)		REC CON	ORS EPTACLES TINUOUS PLING	2.18 2.3 ⁴ 4.5 6.82	4	2.18 2.34 5.63 6.82	(100%) (50%>10) (125%) (100%)	
							BALA LOA PHA PHA	AL LOAD ANCED 3-P AD ASE A ASE B ASE C	HASE		19.1 53 A 123% 89.2% 87.6%		

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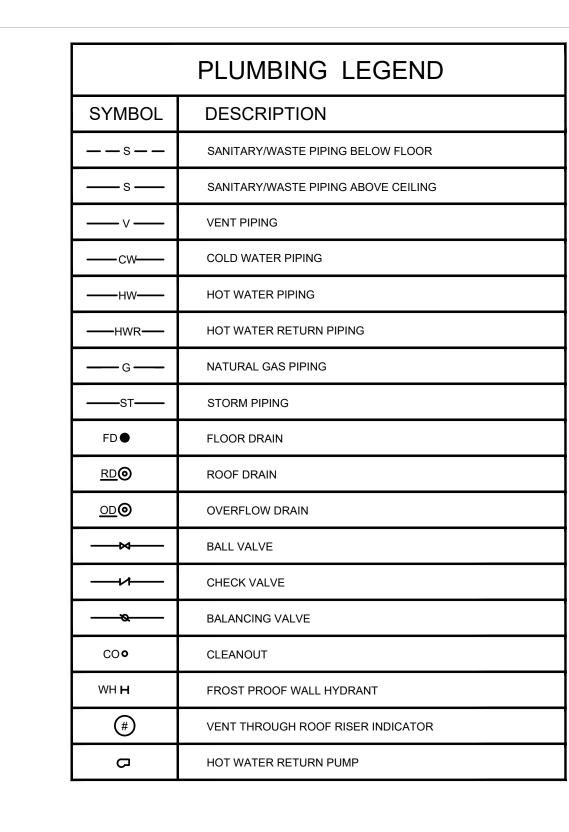
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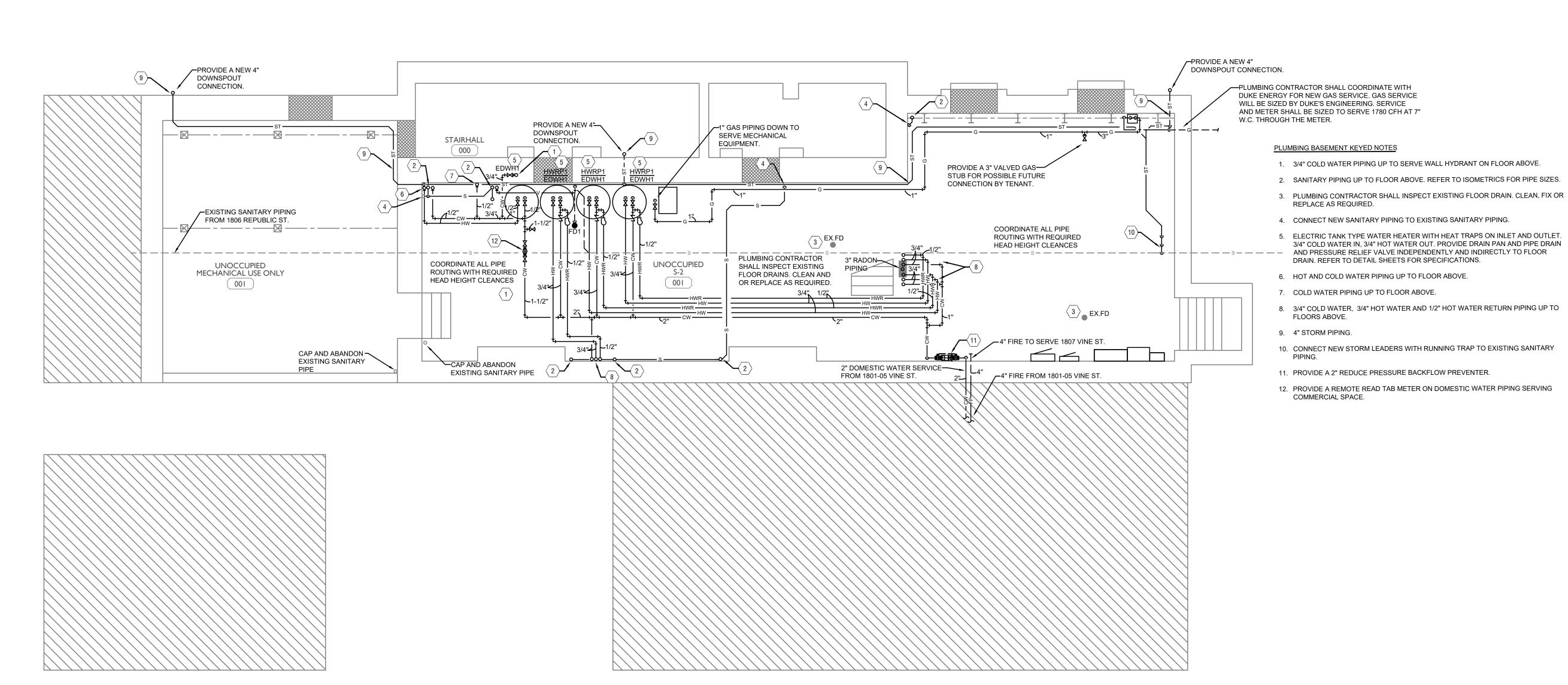
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Job No: 22042 8/10/2022





LUMBING-BASEMENT-PLAN.dwg-EBS. Plot Date/Time: May 05, 2023-1:23pm - By \$(++)
ED TO DEMONSTRATE COMPLIANCE WITH APPLICABLE CODES, AND ARE INTENDED TO PROVIC
IN CONSTRUCTION ARE INSTALLED IN ACCORDANCE WITH ANY CONTRACTURAL AGREEMENT



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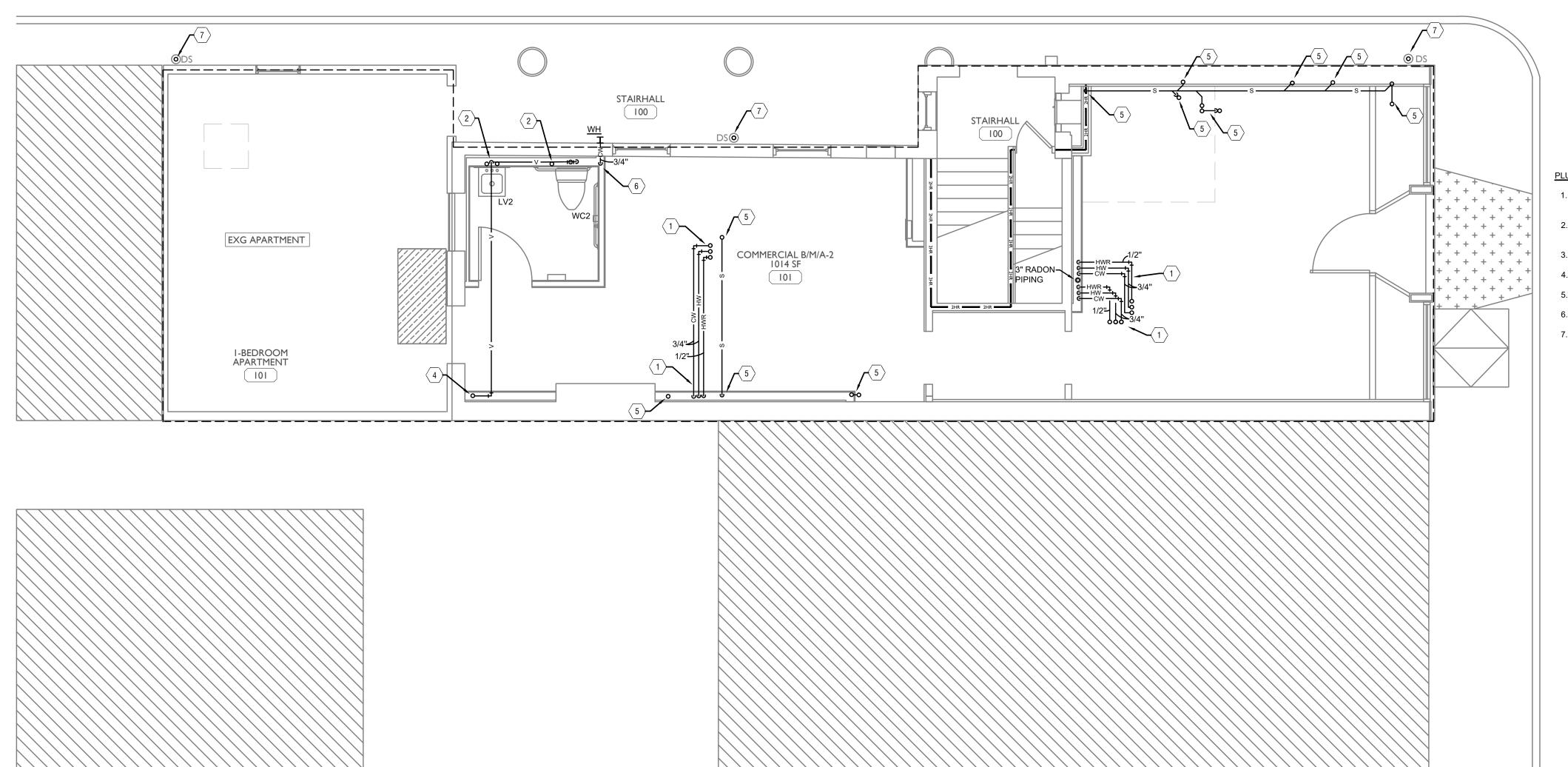
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Job No: 22042 8/10/2022

	PLUMBING LEGEND									
SYMBOL	DESCRIPTION									
 s 	SANITARY/WASTE PIPING BELOW FLOOR									
—-s—	SANITARY/WASTE PIPING ABOVE CEILING									
v	VENT PIPING									
	COLD WATER PIPING									
——HW——	HOT WATER PIPING									
HWR	HOT WATER RETURN PIPING									
—— G ——	NATURAL GAS PIPING									
——ST——	STORM PIPING									
FD●	FLOOR DRAIN									
<u>rd</u> @	ROOF DRAIN									
<u>od</u> @	OVERFLOW DRAIN									
—₩—	BALL VALVE									
─	CHECK VALVE									
	BALANCING VALVE									
CO •	CLEANOUT									
WH H	FROST PROOF WALL HYDRANT									
#	VENT THROUGH ROOF RISER INDICATOR									
Ω	HOT WATER RETURN PUMP									



1. 3/4" COLD WATER, 3/4" HOT WATER AND 1/2" HOT WATER RETURN PIPING UP AND DOWN.

- 1/2" HOT AND COLD WATER UP FROM FLOOR BELOW TO SERVE LAVATORY AND 1/2" COLD WATER UP FROM FLOOR BELOW TO SERVE WATER CLOSET.
- 3. SANITARY PIPING UP TO SERVE PLUMBING FIXTURE ON FLOOR ABOVE.
- 4. VENT PIPING UP TO FLOOR ABOVE.
- 5. WASTE PIPING UP AND DOWN
- 6. 3/4" COLD WATER PIPING UP FROM FLOOR BELOW TO WALL HYDRANT.
- PROVIDE A 4" DOWNSPOUT CONNECTION AND ROUTE INTO BUILDING AND DOWN TO BASEMENT.

Job No: 22042 8/10/2022

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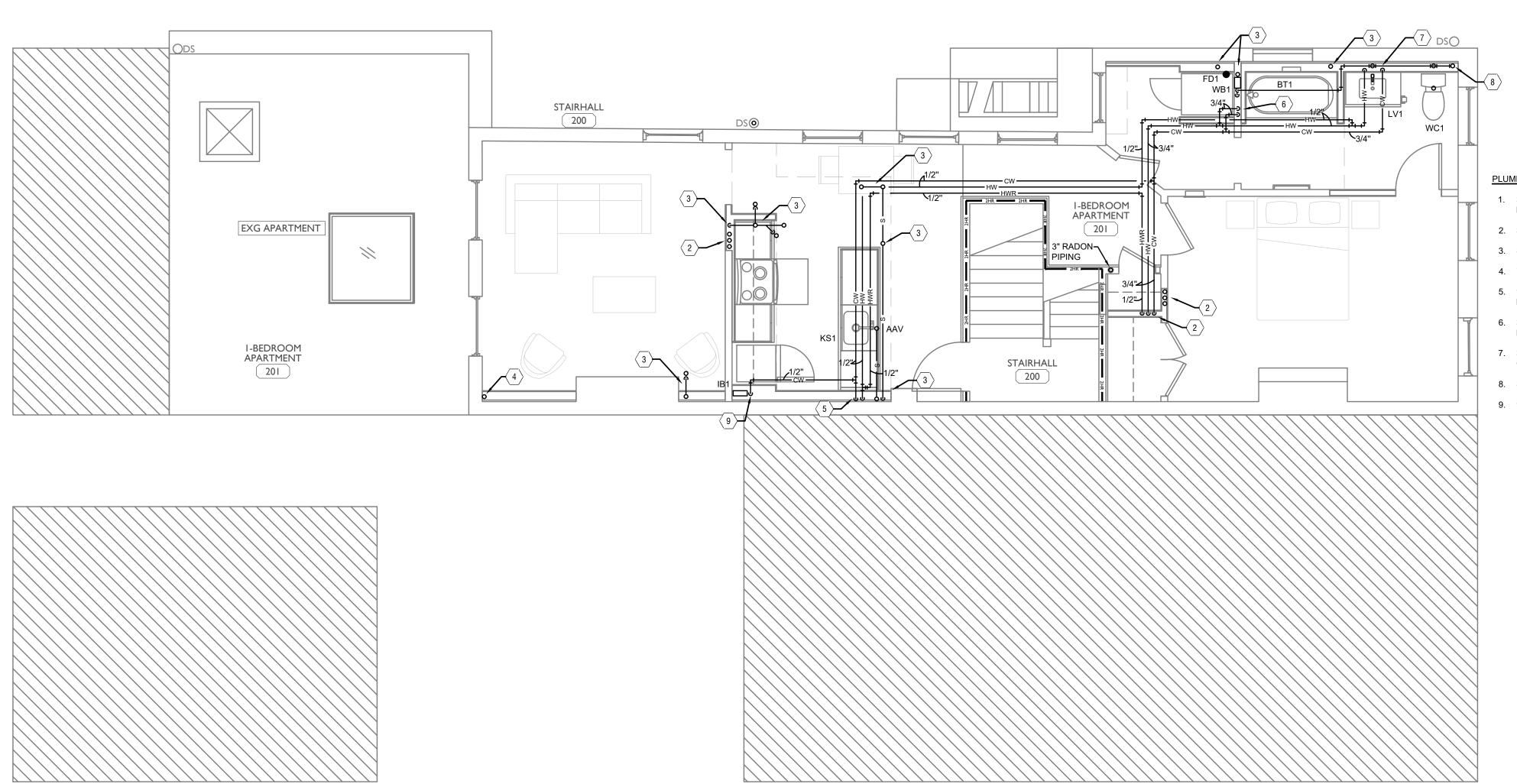
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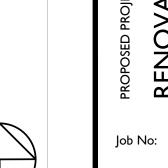
	PLUMBING LEGEND								
SYMBOL	DESCRIPTION								
s	SANITARY/WASTE PIPING BELOW FLOOR								
—-s—	SANITARY/WASTE PIPING ABOVE CEILING								
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CW	COLD WATER PIPING								
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——HWR—	HOT WATER RETURN PIPING								
—— G ——	NATURAL GAS PIPING								
——st——	STORM PIPING								
FD●	FLOOR DRAIN								
<u>RD</u> ⊚	ROOF DRAIN								
<u>od</u>	OVERFLOW DRAIN								
——₩——	BALL VALVE								
─ ✓	CHECK VALVE								
	BALANCING VALVE								
CO •	CLEANOUT								
WH H	FROST PROOF WALL HYDRANT								
#	VENT THROUGH ROOF RISER INDICATOR								
D	HOT WATER RETURN PUMP								



PLUMBING SECOND FLOOR KEYED NOTE:

1. 3/4" COLD WATER, 3/4" HOT WATER AND 1/2" HOT WATER RETURN PIPING UP AND

- 2. 3/4" HOT, COLD WATER AND 1/2" HOT WATER RETURN PIPING UP AND DOWN.
- 3. SANITARY PIPING UP TO SERVE PLUMBING FIXTURE ON FLOOR ABOVE.
- 4. VENT PIPING UP AND DOWN.
- 1/2" HOT AND COLD WATER PIPING DOWN TO SERVE KITCHEN SINK. EXTEND A 1/2" HOT WATER LINE TO SERVE DISHWASHER.
- 6. 3/4" HOT AND COLD WATER DOWN IN WALL. 1/2" HOT AND COLD WATER TO EACH
- 3/4" COLD WATER AND 1/2" HOT WATER PIPING DOWN IN WALL. 1/2" HOT AND COLD WATER TO LAVATORY AND 1/2" COLD WATER TO WATER CLOSET.
- 8. SANITARY PIPING DOWN TO FLOOR BELOW.VENT PIPING UP TO FLOOR ABOVE.
- 9. 1/2" COLD WATER PIPING DOWN TO SERVE VALVE BOX FOR REFRIGERATOR.



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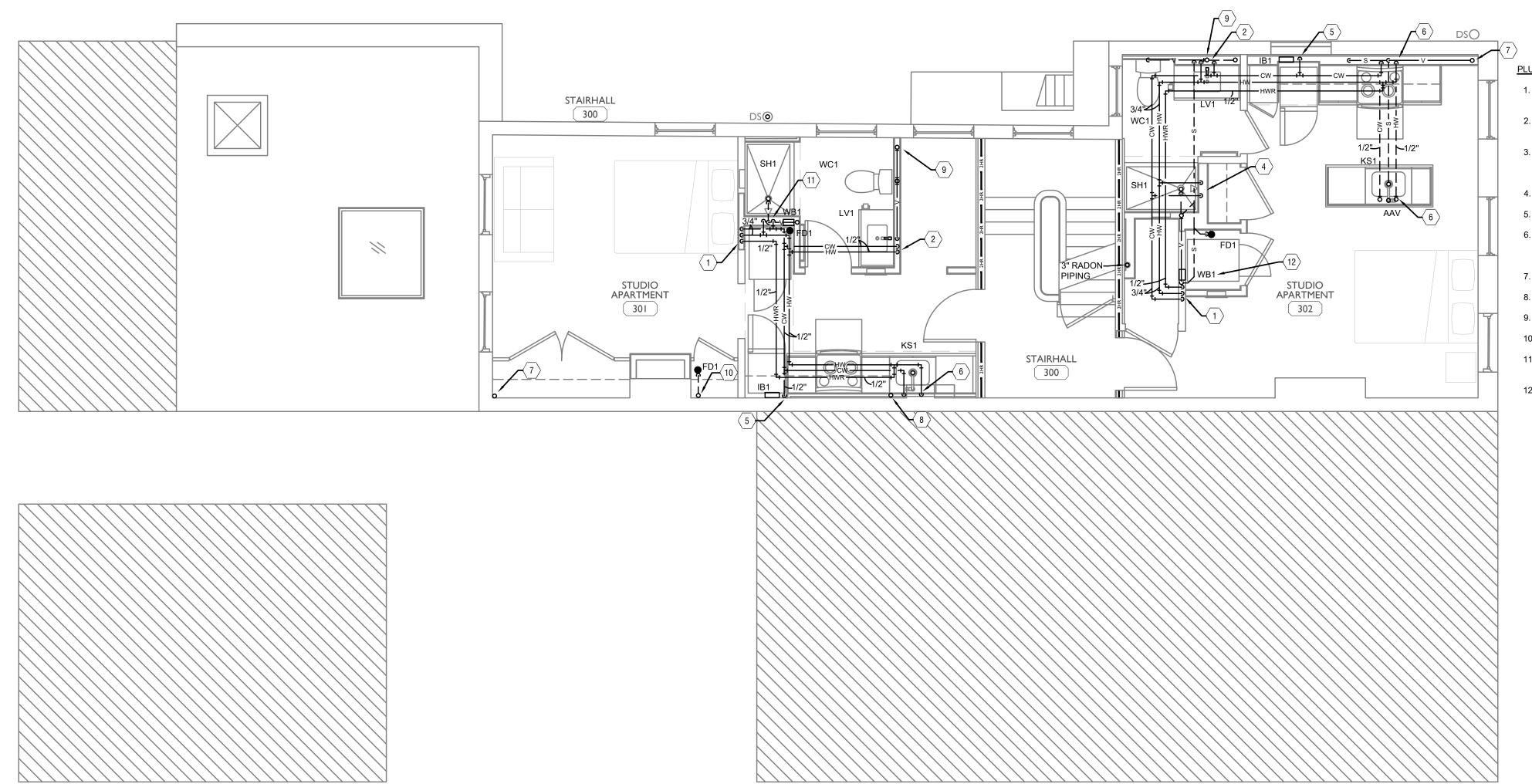
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NOVATION FOR 807 VINE ST ACINNATI, OH, 45202

Job No: 22042 8/10/2022

P1.02

	PLUMBING LEGEND									
SYMBOL	DESCRIPTION									
s	SANITARY/WASTE PIPING BELOW FLOOR									
—-s—	SANITARY/WASTE PIPING ABOVE CEILING									
v	VENT PIPING									
cw	COLD WATER PIPING									
——нw——	HOT WATER PIPING									
HWR	HOT WATER RETURN PIPING									
—— G——	NATURAL GAS PIPING									
——st——	STORM PIPING									
FD●	FLOOR DRAIN									
<u>rd</u> ⊙	ROOF DRAIN									
<u>od</u>	OVERFLOW DRAIN									
—₩—	BALL VALVE									
─ ₩	CHECK VALVE									
	BALANCING VALVE									
CO •	CLEANOUT									
WH H	FROST PROOF WALL HYDRANT									
#	VENT THROUGH ROOF RISER INDICATOR									
O	HOT WATER RETURN PUMP									



UMBING THIRD FLOOR KEYED NOTES

- 1. 3/4" COLD WATER, 3/4" HOT WATER AND 1/2" HOT WATER RETURN PIPING UP AND
- 2. 3/4" HOT AND COLD WATER DOWN IN WALL. 1/2" HOT AND COLD WATER TO LAVATORY AND SHOWER. 1/2" COLD WATER PIPING TO SERVE WATER CLOSET.
- 3. 1/2" HOT AND COLD WATER PIPING DOWN IN WALL. 1/2" COLD WATER TO VALVE BOX FRO REFRIGERATOR, 1/2" HOT AND COLD WATER PIPING TO SERVE KITCHEN SINK AND EXTEND A 1/2" HOT WATER LINE TO SERVE DISHWASHER.
- 4. 1/2" HOT AND COLD WATER TO SERVE PLUMBING FIXTURE.
- 5. 1/2" COLD WATER PIPING DOWN TO SERVE VALVE BOX FOR REFRIGERATOR.
- 1/2" HOT AND COLD WATER PIPING DOWN. 1/2" HOT AND COLD WATER TO SERVE COUNTERTOP SINK, 1/2" HOT WATER TO SERVE DISHWASHER AND 1/2" COLD WATER TO SERVE VALVE BOX.
- 7. VENT PIPING UP AND DOWN.
- 8. STACK WASTE VENT PIPE UP AND DOWN.
- 9. VENT PIPING UP TO FLOOR ABOVE.
- 10. SANITARY PIPING DOWN AND VENT PIPING UP.
- 11. 3/4" HOT AND COLD WATER DOWN IN WALL. 1/2" HOT AND COLD WATER TO SERVE SHOWER AND TO SERVE WASHER BOX.
- 12. EXTEND A 1/2"HOT AND COLD WATER PIPING IN WALL TO SERVE WASHER BOX.

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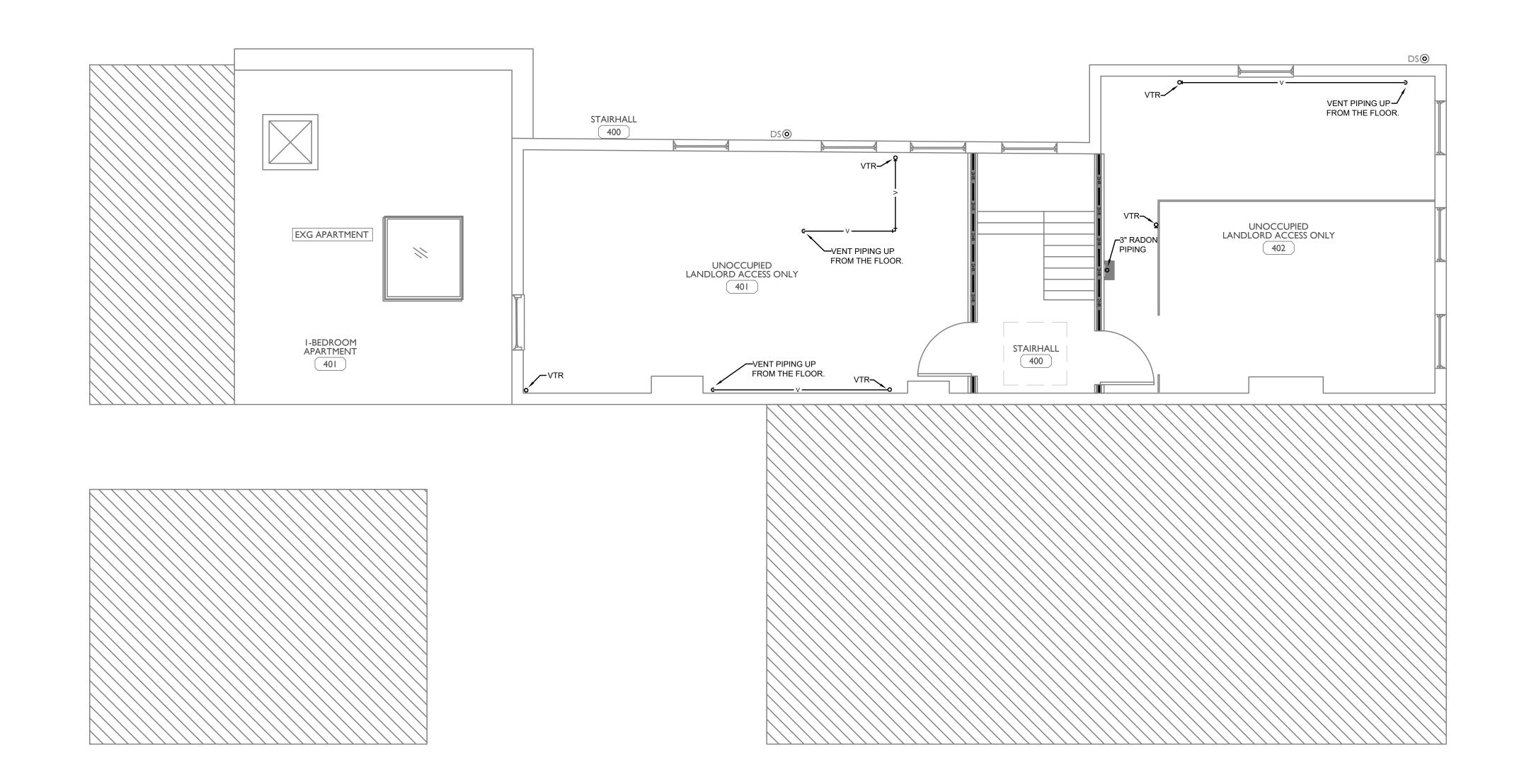
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Job No: 22042 8/10/2022

PLUMBING PLAN - THIRD FLOOR SCALE: 1/4" = 1'-0"

	PLUMBING LEGEND							
SYMBOL	DESCRIPTION							
s	SANITARY/WASTE PIPING BELOW FLOOR							
— s —	SANITARY/WASTE PIPING ABOVE CEILING							
v	VENT PIPING							
cw	COLD WATER PIPING							
——HW——	HOT WATER PIPING							
—HWR—	HOT WATER RETURN PIPING							
—— G ——	NATURAL GAS PIPING							
——st——	STORM PIPING							
FD●	FLOOR DRAIN							
<u>rd</u> ©	ROOF DRAIN							
<u>od</u>	OVERFLOW DRAIN							
─ ₩	BALL VALVE							
─ ✓	CHECK VALVE							
	BALANCING VALVE							
CO •	CLEANOUT							
WH H	FROST PROOF WALL HYDRANT							
#	VENT THROUGH ROOF RISER INDICATOR							
O	HOT WATER RETURN PUMP							





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1. GENERAL PLUMBING REQUIREMENTS

- a. THE PLUMBING CONTRACTOR MUST REFER TO SITE PLANS, ARCHITECTURAL PLANS AND ELEVATIONS, AND PRICING INSTRUCTIONS FROM THE GENERAL CONTRACTOR TO DEVELOP THEIR PRICE. THE PLUMBING CONTRACTOR'S PRICE (INCLUDING TAXES) SHOULD INCLUDE ALL LABOR AND MATERIAL NECESSARY TO PROVIDE A COMPLETE AND FULLY
- OPERATIONAL PLUMBING SYSTEM. b. THE PLUMBING CONTRACTOR SHALL BE LICENSED BY THE STATE OF OHIO TO INSTALL PLUMBING SYSTEMS.
- c. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE, LOCAL CODES AND ORDINANCES. THE PLUMBING CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A MINIMUM
- d. SUBMIT TO THE ARCHITECT PDF FILE COPIES OF COMPLETE AND CERTIFIED SHOP DRAWINGS, DESCRIPTIVE DATA, PERFORMANCE DATA AND RATINGS, DIAGRAMS AND SPECIFICATIONS ON ALL SPECIFIED EQUIPMENT INCLUDING ACCESSORIES, AND MATERIALS FOR REVIEW. e. REFER TO ARCHITECTURAL DRAWINGS, GENERAL NOTES, INSTRUCTIONS
- TO BIDDERS, GENERAL CONDITIONS, SUPPLEMENTARY GENERAL CONDITIONS, SPECIFICATIONS, AND DRAWINGS EXCEPT AS NOTED HEREIN WHICH APPLY IN ALL RESPECTS TO THIS SECTION. f. COORDINATE PIPING CHASES, SHAFTS, ABOVE CEILING WORK, ETC. WITH
- g. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL NECESSARY PLUMBING PIPING PENETRATIONS. THIS INCLUDES CORING

ARCHITECT. ALL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR

- HOLES IN SLABS, ETC h. EQUIPMENT AND MATERIALS SHALL CONFORM WITH APPROPRIATE PROVISIONS OF AGA, ARI, ASME, ASTM, CISPI, UL, NEMA, ANSI, SMACNA,
- ASHRAE, NFPA, NEC, AS APPLICABLE TO EACH INDIVIDUAL UNIT OR ASSEMBLY. ALL EQUIPMENT MUST BEAR UL LABEL. i. INSTALL EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. MAINTAIN ALL
- . WHERE NOT PROVIDED BY OTHERS, PROCURE AND PAY FOR ALL PERMITS, FEES, TAXES AND INSPECTIONS NECESSARY TO COMPLETE THE PLUMBING WORK. FURNISH CERTIFICATE OF APPROVAL FOR WORK FROM INSPECTION AUTHORITY TO OWNER BEFORE FINAL ACCEPTANCE FOR WORK CERTIFICATE OF FINAL INSPECTION AND APPROVAL SHALL BE SUBMITTED WITH THE CONTRACTOR'S REQUEST FOR PAYMENT. NO FINAL PAYMENT WILL BE APPROVED WITHOUT THIS CERTIFICATE.
- k. ALL WORK SHALL BE ACCURATELY LAID-OUT WITH OTHER TRADES, PRIOR TO INSTALLATION & FABRICATION, TO AVOID ALL CONFLICTS AND OBTAIN A NEAT AND WORKMANLIKE INSTALLATION WHICH WILL AFFORD MAXIMUM ACCESSIBILITY FOR EQUIPMENT OPERATION, MAINTENANCE CLEARANCES AND HEADROOM.
- 2. USE OF INFORMATION PROVIDED BY EBS

CODE RECOMMENDED CLEARANCES.

a. THE INFORMATION PROVIDED IS INTENDED TO CONVEY DESIGN INTENT ONLY. ALL MEANS AND METHODS, SEQUENCES, TECHNIQUES, AND PROCEDURES OF CONSTRUCTION AS WELL AS ANY ASSOCIATED SAFETY PRECAUTIONS AND PROGRAMS. AND ALL INCIDENTAL AND TEMPORARY DEVICES REQUIRED TO CONSTRUCT THE PROJECT, AND TO PROVIDE A COMPLETE AND FULLY OPERATIONAL PLUMBING SYSTEM ARE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR.

3. CONTRACTOR COORDINATION

- a. COORDINATION DRAWINGS SHOWING SYSTEM AND COMPONENT INSTALLATION LAYOUT, ROUTING, DETAILS, ETC. SHALL BE PRODUCED BY THE PLUMBING CONTRACTOR AND UNDER THE SUPERVISION OF THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER. OR APPROPRIATE PARTY AS APPLICABLE. ALL SYSTEMS INSTALLED BY EACH SUB-CONTRACTOR SHALL BE COORDINATED WITH ONE ANOTHER AND APPROVED BY GENERAL CONTRACTOR/CONSTRUCTION MANAGER, ETC. PRIOR TO INSTALLATION AND/OR FABRICATION. IF QUESTIONS CONCERNING DESIGN INTENT ARISE DURING COORDINATION, EBS CAN ASSIST WHERE APPROPRIATE.
- 4. PLUMBING FIXTURES a. SHUT OFF VALVES/STOPS SHALL BE PROVIDED AT ALL LAVATORIES, SINKS AND WATER CLOSETS.
- b. ALL WALL-HUNG PLUMBING FIXTURES, INCLUDING, BUT NOT LIMITED TO WATER CLOSETS, URINALS, LAVATORIES, AND SINKS SHALL BE ANCHORED TO THE FLOOR WITH CONCEALED IN-WALL CARRIERS. WALL-HUNG FIXTURES SHALL NOT BE SIMPLY BOLTED TO THE WALL OR ANCHORED TO WOOD BLOCKING.
- c. COORDINATE COLOR OF FIXTURES WITH ARCHITECT. FIXTURES SHALL BE WHITE UNLESS OTHERWISE NOTED.
- d. PROVIDE ADA COMPLIANT FIXTURES WHERE INDICATED ON THE ARCHITECTURAL PLANS. PROVIDE OFFSET FIXTURE TAILPIECES AND TRAPS 8. BACKFLOW PREVENTION WHERE REQUIRED TO MEET ADA LEG CLEARANCES.
- e. FIXTURES SHALL BE SECURELY FASTENED TO PREVENT ANY MOVEMENT OF FIXTURE DURING NORMAL USE. SEAL TO WALL, FLOOR OR COUNTERTOP WITH SILICONIZED ACRYLIC-LATEX CAULK.

5. DRAIN PANS

a. PROVIDE DRAIN PAN UNDER WATER HEATERS. PIPE WATER HEATER DRAIN AND PRESSURE RELIEF VALVE SEPARATELY AND INDIRECTLY TO FLOOR DRAIN (NOT TO DRAIN PAN)

b. DRAIN PANS SHALL BE PROVIDED UNDER WASHERS AND SHALL BE SIZED

TO ACCOMMODATE A STANDARD WASHER OR STACKABLE WASHER/DRYER AS APPLICABLE. BASIS OF DESIGN SHALL BE DRIPTITE 30-5/8" WIDE X 34-5/8" DEEP TRANSLUCENT PAN. DRILL 3/4" OUTLET IN VERTICAL SIDEWALL FOR SIDE-OUTLET OR IN BOTTOM OF PAN DIRECTLY OVER DRAIN IF DRAIN IS UNDER THE PAN. DRAIN CONNECTION SHALL BE MADE WITH MANUFACTURER PROVIDED DRAIN OUTLET CONNECTION. PANS ARE AVAILABLE IN CUSTOM SIZES IF NECESSARY (COORDINATE SIZES AND LOCATIONS OF THE PAN WITH ROOM DIMENSIONS AND EQUIPMENT SIZES AS PROVIDED BY THE ARCHITECT/OWNER).

6. DOMESTIC WATER SYSTEMS

- a. PROVIDE A NEW DOMESTIC WATER SERVICE TO THE BUILDING b. PROVIDE SEPARATE VALVE AND TAB METER FOR EACH APARTMENT AND TENANT SPACE.
- c. INTERIOR DOMESTIC WATER PIPING:
- i. WHERE ALLOWED BY CODE, CPVC PIPING CAN BE USED. a. CPVC PIPING 2" AND SMALLER SHALL BE EQUAL TO FLOW GUARD GOLD - THIS SPECIFICATION COVERS COPPER TUBE SIZE (CTS) CPVC MANUFACTURED TO STANDARD DIMENSIONAL RATIO (SDR) 11 FOR HOT AND COLD DOMESTIC WATER DISTRIBUTION. THIS SYSTEM IS INTENDED FOR PRESSURE APPLICATIONS WHERE THE OPERATING TEMPERATURE WILL NOT EXCEED 180°F AT 100 PSI. PIPE AND FITTINGS SHALL BE MANUFACTURED FROM VIRGIN RIGID CPVC (CHLORINATED POLYVINYL CHLORIDE) VINYL COMPOUNDS WITH A CELL CLASS OF 24448 AS IDENTIFIED IN ASTM D 1784. CTS CPVC PIPE AND FITTINGS SHALL CONFORM TO ASTM D 2846. PIPE AND FITTINGS SHALL BE MANUFACTURED AS A SYSTEM AND BE THE PRODUCT OF ONE MANUFACTURER. ALL PIPE AND FITTINGS SHALL BE MANUFACTURED IN THE UNITED STATES. PIPE AND FITTINGS SHALL CONFORM TO NATIONAL SANITATION FOUNDATION (NSF) STANDARDS 14 AND 61. INSTALLATION SHALL COMPLY WITH LATEST INSTALLATION PROVIDED BY THE MANUFACTURER AND SHALL CONFORM TO ALL LOCAL PLUMBING, BUILDING AND FIRE CODE REQUIREMENTS. BURIED PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM F 1668. SOLVENT WELD JOINTS SHALL BE MADE USING CPVC CEMENT CONFORMING TO ASTM F 493. YELLOW ONE-STEP CEMENT MAY BE USED WITHOUT PRIMER. IF A PRIMER IS REQUIRED BY LOCAL PLUMBING OR BUILDING CODES, THEN A PRIMER CONFORMING TO ASTM F 656 SHOULD BE USED. THE SYSTEM SHALL BE PROTECTED FROM CHEMICAL AGENTS. FIRE STOPPING MATERIALS. THREAD SEALANT, PLASTICIZED VINYL PRODUCTS OR OTHER AGGRESSIVE CHEMICAL AGENTS NOT COMPATIBLE WITH CPVC COMPOUNDS. SYSTEMS SHALL BE HYDROSTATICALLY TESTED AFTER INSTALLATION NEVER TEST

WITH OR TRANSPORT/STORE COMPRESSED AIR OR GAS IN CPVC PIPE OR

9. HOSE BIBS AND HYDRANTS SPECIFICATION COVERS THE MANUFACTURING REQUIREMENTS FOR CPVC

b. CPVC PIPING LARGER THAN 2" SHALL BE EQUAL TO CORZAN - THIS

SCHEDULE 80 IRON PIPE SIZE (IPS) PIPE AND FITTINGS. BOTH THE PIPE AND

THE REQUIREMENTS SET FORTH BY THE AMERICAN SOCIETY FOR TESTING

COMPOUND MEETS CELL CLASS 24448 AND THE FITTING COMPOUND MEETS

PROPERTIES MEET OR EXCEED THE REQUIREMENTS OF ASTM STANDARDS

FITTINGS ARE MANUFACTURED IN NORTH AMERICA AND MEET OR EXCEED

MATERIALS (ASTM) AND ANSI/NSF STANDARDS 14 AND 61. CPVC PIPE AND

FITTINGS ARE FXTRUDED/MOLDED FROM CPVC COMPOUNDS. THE PIPE

CELL CLASS 23447 AS DEFINED BY ASTM D1784. BOTH THE PIPE AND THE

FITTING COMPOUNDS ARE CERTIFIED BY NSF INTERNATIONAL FOR USE

F441 FOR PIPE, F439 FOR SOCKET FITTINGS AND ASTM F437 OR F439 FOR

THREADED FITTINGS. THREADED FITTINGS HAVE TAPER PIPE THREADS IN

ACCORDANCE WITH ASTM F1498, UNIONS AND FLANGES MEET OR EXCEED

THE REQUIREMENTS OF ASTM F1970. ALL SOCKET TYPE JOINTS SHALL BE

HANDLING OF SOLVENT CEMENTS SHALL BE IN ACCORDANCE WITH ASTM

REQUIREMENTS OF ASTM F493. THE STANDARD PRACTICE FOR SAFE

ASSEMBLED EMPLOYING SOLVENT CEMENTS THAT MEET OR EXCEED THE

F402. SOLVENT CEMENT SHALL BE LISTED BY NSF INTERNATIONAL FOR USE

WATER FILLED PIPE AND FITTINGS (1/2" THROUGH 6") TESTED IN GENERAL

ACCORDANCE WITH UL 723/ASTM E 84 (NFPA 255 AND UBC 8-1) MEETS THE

25/50 FLAME AND SMOKE REQUIREMENT AND SHALL BE PERMITTED TO BE

TESTING LABORATORY SHALL BE OBTAINED AND MADE AVAILABLE UPON

OF ASTM STANDARDS F437, F438 OR F1970. THE PIPE AND FITTINGS

MARKINGS STATE THE PIPE/FITTING MANUFACTURE'S NAME OR

SHALL BE PEX-A TYPE AND FITTINGS SHALL BE EQUAL TO UPONOR

AQUAPEX. TUBING AND FITTINGS MUST CONFORM TO ASTM

ALLOW TUBING TO COME IN CONTACT WITH PIPE THREAD

POTABLE WATER AND THE ASTM DESIGNATION.

REQUEST. THE MARKING ON THE CPVC PIPE MEET THE REQUIREMENTS OF

TRADEMARK, THE MATERIAL DESIGNATION, THE SIZE, THE NSF MARK FOR

ii. WHERE ALLOWED BY CODE, PEX TUBE AND FITTINGS CAN BE USED. TUBING

F876 "STANDARD SPECIFICATION FOR CROSSLINKED POLYETHYLENE, ASTM

F877 "STANDARD FOR CROSSLINKED POLYETHYLENE PLASTIC HOT AND

COLD WATER DISTRIBUTION SYSTEMS". PROVIDE ENGINEERED PLASTIC

FITTINGS WITH PLASTIC COLLARS WHICH CONFORM TO ASTM F1960

STANDARD SPECIFICATION FOR COLD EXPANSION FITTINGS WITH PEX

REINFORCING RINGS FOR USE WITH CROSSLINKED POLYETHYLENE PIPING

PEX TUBING AND CONNECTIONS SHALL BE WARRANTED FOR A PERIOD OF

25 YEARS. DO NOT WELD, GLUE, TAPE OR ALLOW OTHER SOLVENT BASED

ADHESIVES OR PAINTS TO COME INTO CONTACT WITH TUBING. DO NOT

FIXTURES. DO NOT EXPOSE TUBING TO OPEN FLAME. DO NOT SOLDER

WITHIN 18" OF TUBING. DO NOT INSTALL TUBING BETWEEN TUB SPOUT AND

SHOWER VALVE. RADIUS OF BENDS MUST NOT EXCEED SIX TIMES OUTSIDE

TUBE DIAMETER. REPAIR KINKS IN TUBING USING HEAT AS RECOMMENDED

BY MANUFACTURER. TUBING SHALL BE INSTALLED IN MAXIMUM PRACTICAL

FITTINGS. TUBING SHALL BE SUPPORTED IN A MATTER THAT DOES NOT

WITHIN 6" OF FITTINGS OR BENDS. USE BEND SUPPORTS AT 90 DEGREE

PLATES WHERE TUBING PENETRATES STUDS AT FACE OF STUDS. REMOTE

WHERE TUBING IS TERMINATED (MODIFIED HOME-RUN INSTALLATION TYPE).

CONNECTION OF TUBING TO FITTINGS. DO NOT OVER EXPAND TUBING. PIPE

SHALL BE SUPPORTED AT FITTINGS AND FIXTURES AS RECOMMENDED BY

MANUFACTURER. PIPING SHALL BE INSTALLED WITH MINIMUM AMOUNT OF

FITTINGS. USE MANUFACTURER APPROVED VALVES, FITTINGS, HOSE BIBS

d. CONTROL VALVES SHALL BE MANUFACTURED BY OR APPROVED BY PIPING

f. PROVIDE HOT WATER RETURN PUMP EQUAL TO BELL AND GOSSETT SERIES

3. PROVIDE AUTOMATIC TIMER KIT EQUAL TO BELL AND GOSSETT MODEL TC-1

AND PROGRAM PUMP TO OPERATE TO ACCOMMODATE THE OWNER'S

a. PROVIDE VALVE AND TAB METERS TO ISOLATE WATER USAGE FOR EACH

OF METER AND LOCATE IN AN ACCESSIBLE LOCATION.

b. BACKFLOW PREVENTERS FOR 2" AND SMALLER WATER

SHALL BE CONBRACO AND WILKINS.

DWELLING UNIT AND TENANT SPACE. PROVIDE SHUT-OFF VALVE UPSTREAM

a. PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER ON WATER SERVICE

SERVICES - PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER ON THE

WATER SERVICE MAIN WHERE THE WATER SERVICE ENTERS THE BUILDING.

ABOVE-GRADE FLOOR DRAIN (UNFINISHED AREAS)

WATER CLOSET DESCRIPTION

WC1 | FLOOR-SET TANK

OATEY

SIOUX CHIEF

| FIXTURE MANUFACTURER

REDUCED PRESSURE BACKFLOW PREVENTER TO BE EQUAL TO WATTS

SERIES LF919QT. APPROVED MANUFACTURERS OF EQUAL PRODUCTS

100 OR EQUAL PUMP MANUFACTURED BY ARMSTRONG, GRUNDFOS, OR

e. ADJUST ALL STOPS AND VALVES PROPERLY PRIOR TO PROJECT

DAMAGE TUBING AND ALLOWS FOR THERMAL EXPANSION. SUPPORTS

BENDS. PROTECT INSTALLED TUBING FROM DAMAGE. INSTALL METAL

MANIFOLD TYPE FITTINGS SHALL BE UTILIZED AT BRANCHES IN ROOMS

UTILIZE EXPANDER TOOLS RECOMMENDED BY MANUFACTURER FOR

AND BOXES AT FIXTURES.

HOURS OF OPERATION.

7. TAB METERS FOR DOMESTIC WATER

MANUFACTURER.

COMPLETION.

LENGTHS, AS DIRECTLY AS POSSIBLE TO REMOTE MANIFOLD WITH MINIMUM

SHALL BE SPACED AT 32" MINIMUM HORIZONTALLY AND 60" VERTICALLY AND

COMPOUNDS, FIREWALL PENETRATION SEALING COMPOUNDS, AND

PETROLEUM BASED SEALANTS. DO NOT ALLOW TUBING TO COME

WITHIN 6" OF GAS APPLIANCE VENTS OR 12" OF RECESSED LIGHT

ASTM F441 AND THE MARKING ON THE FITTINGS MEETS THE REQUIREMENTS

INSTALLED IN RETURN AIR PLENUMS. TEST REPORTS FROM A THIRD PARTY

WITH POTABLE WATER, AND APPROVED BY THE FITTINGS MANUFACTURERS.

WITH POTABLE WATER. DIMENSIONS, TOLERANCES AND PHYSICAL

- a. PROVIDE FROST-PROOF EXTERIOR WALL HYDRANTS ON EACH ELEVATION
- OF THE BUILDING. b. WALL HYDRANTS TO BE EQUAL TO 3/4" WOODFORD MODEL B-67, WITH CHROME FINISH ON BRASS CASTING, WITH BOX AND HINGED DOOR, AND LOOSE-TEE KEY. CONCEAL WITHIN INTERIOR PARTITIONS AND/OR INSTALL IN A MANNER THAT PREVENTS FREEZING. FURNISH TO OWNER, ONE VALVE KEY FOR EACH KEY OPERATED WALL HYDRANT INSTALLED. APPROVED MANUFACTURERS OF EQUAL PRODUCTS SHALL BE ZURN, WADE, JOSAM, SMITH, OR WATTS.

- 10. SANITARY AND VENT SYSTEMS a. CONNECT NEW SANITARY PIPING TO THE EXISTING SANITARY STACKS AND/OR UNDERGROUND SANITARY BUILDING SEWER. CONTRACTOR SHALL CLEAN AND INSPECT EXISTING UNDERGROUND BUILDING SEWER, SEWER LATERAL AND ALL PIPING INTENDED TO BE REUSED TO DETERMINED CONDITION FOR REUSE. PROVIDE INSPECTION REPORT AND
- RECOMMENDATION TO OWNER. b. CUT AND PATCH BASEMENT SLAB AS REQUIRED TO INSTALL NEW SANITARY 17. VALVES FOR DOMESTIC WATER

c. INTERIOR SANITARY, WASTE, AND VENT PIPING:

- i. WHERE NOT INSTALLED IN A PLENUM, SANITARY, WASTE, AND VENT PIPING WITHIN BUILDING TO BE SCHEDULE 40 PVC PIPING AND FITTINGS CONFORMING TO ASTM D 2665, SOLID-WALL DRAIN PIPING WITH PVC SOCKET SOLVENT WELD FITTINGS CONFORMING TO ASTM D2665, MADE TO ASTM D3311, DRAIN, WASTE, AND VENT PATTERNS
- ii. WHERE PIPING SHALL BE INSTALLED IN A PLENUM, SANITARY, WASTE, AND VENT PIPING WITHIN BUILDING TO BE NO-HUB, CAST-IRON PIPE WITH NO-HUB COUPLINGS CONSISTING OF A STAINLESS STEEL SHIELD, CLAMP. AND NEOPRENE GASKET. COUPLINGS SHALL BE TESTED AND CERTIFIED TO CISPI 310, ASTM C1277, ASTM C564, AND NSF. IDEAL CLAMP PRODUCTS' HEAVY DUTY POW'R GEAR (RED SHIELD) COUPLINGS ARE ALSO APPROVED AND ACCEPTABLE. THESE COUPLINGS ARE LISTED WITH NSF
- INTERNATIONAL AND CONFORM WITH ASTM C1540 PERFORMANCE REQUIREMENTS (SHEAR, DEFLECTION AND UNRESTRAINED THRUST TESTS). d. COORDINATE WITH LOCAL AUTHORITIES FOR DRAINAGE REQUIREMENTS FOR EQUIPMENT DESIGNATED WITH INDIRECT WASTE TO FLOOR DRAINS. PROVIDE PIPED DRAIN TO SANITARY IF REQUIRED BY LOCAL JURISDICTION.
- a. PROVIDE FLOOR DRAINS IN ALL TOILET ROOMS THAT HAVE MORE THAN ONE WATER CLOSET OR URINAL.
- b. PROVIDE FLOOR DRAINS FOR ALL EQUIPMENT PRODUCING CONDENSATE AND THAT HAVE DRAIN CONNECTIONS.

FLANGE, WEEP HOLES, WITH 9" DIAMETER HEAVY-DUTY DUCTILE IRON

- c. FLOOR DRAINS IN FINISHED AREAS TO BE PVC BODY. DOUBLE DRAINAGE FLANGE, WEEP HOLES, WITH 6" DIAMETER NICKEL BRONZE STRAINER. d. FLOOR DRAINS IN MECHANICAL SPACE TO BE PVC BODY, DOUBLE DRAINAGE
- STRAINER. e. PROVIDE CAST IRON BODIED FLOOR DRAINS WHERE DRAINS ARE INSTALLED IN A PLENUM (MECHANICAL ROOMS THAT ARE USED AS

12. TRAP SEAL PROTECTION

- a. TRAP SEALS SUBJECT TO EVAPORATION SHALL BE PROTECTED BY ONE OF THE METHODS BELOW, AS APPROVED BY THE LOCAL PLUMBING AUTHORITY HAVING JURISDICTION:
- b. BARRIER-TYPE TRAP SEAL PROTECTION DEVICE A BARRIER-TYPE TRAP SEAL PROTECTION DEVICE MUST PROTECT THE TRAP SEAL FROM EVAPORATION. BARRIER-TYPE TRAP SEAL PROTECTION DEVICES MUST CONFORM TO ASSE 1072. THE DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- a. CONNECT NEW STORM PIPING TO EXISTING SEWER LATERAL. b. CUT AND PATCH BASEMENT SLAB AS REQUIRED TO INSTALL NEW STORM
- c. PROVIDE NEW PRIMARY AND SECONDARY ROOF DRAINS AND ASSOCIATED PRIMARY AND SECONDARY STORM PIPING SYSTEMS WHERE INTERIOR DRAINS ARE SHOWN ON ARCHITECTURAL ROOF PLAN. SECONDARY ROOF DRAINS SHALL BE PIPED INDEPENDENTLY FROM THE PRIMARY SYSTEM AND MUST DISCHARGE THROUGH DOWNSPOUT NOZZLES LOCATED IN THE

EXTERIOR WALL AT GRADE. d. INTERIOR STORM PIPING:

i. WHERE NOT INSTALLED IN A PLENUM, ABOVEGROUND STORM PIPING WITHIN BUILDING SHALL BE SCHEDULE 40 PVC PIPING AND FITTINGS CONFORMING TO ASTM D 2665. SOLID-WALL DRAIN PIPING WITH PV0 SOCKET SOLVENT WELD FITTINGS CONFORMING TO ASTM D2665, MADE TO ASTM D3311, DRAIN, WASTE, AND VENT PATTERNS.

14. STORM PIPING SPECIALTIES

- a. PRIMARY ROOF DRAINS MUST HAVE PVC BODY AND POLYETHYLENE DOME. b. SECONDARY ROOF DRAINS MUST HAVE PVC BODY, POLYETHYLENE DOME, AND INTERNAL WATER DAM/EXTENSION COLLAR.
- c. DOWNSPOUT NOZZLES FOR SECONDARY DRAINAGE DISCHARGING TO GRADE MUST HAVE NICKEL-BRONZE BODY AND REMOVABLE STAINLESS-STEEL SCREEN EQUAL TO ZURN Z199-SS.

TRUE SET FLANGED TP SERIES PVC BODY, 5" NICKEL-BRONZE STRAINER WITH RING

FLUSH VALVE

MANUFACTURER

PVC BODY, POLYETHYLENE DOME

FLUSH VALVE MODEL

NOT APPLICABLE

MATERIAI

USE

|GENERAL/ADA |FLOOR

868-E-S-U-STP2

FIXTURE MODEL #

AMERICAN STANDARD CADET 3 WITH CONCEALED TRAPWAY NOT APPLICABLE

a. PROVIDE FLOOR AND WALL CLEANOUTS WHERE REQUIRED IN ALL SOIL, WASTE, DRAIN AND STORM PIPING. IN AREAS WITH CERAMIC TILE OR CARPETED FLOORING. PROVIDE CLEANOUTS WITH SQUARE. ADJUSTABLE NICKEL BRONZE TOP. IN AREAS WITH RESILIENT FLOORING, PROVIDE CLEANOUTS WITH SQUARE, ADJUSTABLE, NICKEL BRONZE TOP WITH TILE RECESS. CLEANOUTS SHALL BE SAME SIZE AS PIPE EXCEPT THAT CLEANOUTS LARGER THAN 4" WILL NOT BE REQUIRED. WHERE CLEANOUTS OCCUR IN WALLS OF FINISHED AREAS, THEY SHALL BE CONCEALED BEHIND CHROME PLATED ACCESS COVERS.

16. VALVES - GENERAL

- a. PLUMBING CONTRACTOR MUST PROVIDE VALVES AS NECESSARY FOR PROPER SYSTEM OPERATION AND COMPONENT ISOLATION. INSTALL VALVES FOR EACH ISOLATED FIXTURE OR GROUP OF FIXTURES, AND EACH CONNECTION TO EQUIPMENT.
- b. LOCATE SHUT-OFF VALVES ADJACENT TO EQUIPMENT FOR EASY ACCESS SUCH THAT VALVES CAN BE REACHED WITHOUT MOVING EQUIPMENT.

- a. VALVES FOR DOMESTIC WATER MUST MEET THE REQUIREMENTS OF THE LEAD-FREE LAW S.3874. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE LEAD-FREE PRODUCTS AS MANDATED BY THE LAW AND AS REQUIRED/INTERPRETED BY THE AUTHORITY HAVING JURISDICTION.
- b. PROVIDE VALVES FOR WORKING PRESSURE IN WATER PIPING OF 125 PSI OR
- c. GENERAL DUTY SHUT-OFF BALL VALVES
- . PROVIDE TWO-PIECE, FULL PORT, SILICON BRONZE BALL VALVES WITH THE CAPABILITY OF ACCEPTING EXTENDED OPERATING HANDLES (FOR INSULATED PIPING). VALVES SHALL BE NIBCO MODEL T/S/PC-595-Y-66-LF (-NS) OR EQUAL PRODUCT MANUFACTURED BY AMERICAN VALVE CO, CRANE, HAMMOND, MILWAUKEE, RED-WHITE VALVE CORPORATION, OR
- d. BALANCING VALVES
- . BALANCING VALVES SHALL BE EQUAL TO CIRCUITSOLVER, THERMOSTATIC, SELF-ACTUATING BALANCING VALVES WITH UNIONS, THERMOMETER AND TWO INTEGRATED BALL VALVES.
- e. THERMOSTATIC MIXING VALVES i. TEMPERED WATER SHALL BE DELIVERED FROM PUBLIC HAND-WASHING
- FACILITIES (LAVATORIES AND SINKS) THROUGH AN APPROVED WATER-TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070. SET OUTLET TEMPERATURE OF THERMOSTATIC MIXING VALVE TO 110 DEGREES F. POINT-OF-USE THERMOSTATIC MIXING VALVES SHALL BE EQUAL TO WATTS SERIES USG-B. ROUTE TEMPERED WATER TO HOT WATER SIDE OF SINK/LAVATORY. ACCEPTABLE MANUFACTURERS INCLUDE SYMMONS, LAWLER, LEONARD, POWERS, BRADLEY, AND WATTS.

18. EXPANSION COMPENSATION

- a. PROVIDE EXPANSION COMPENSATION ON ALL PIPING PER PIPING MANUFACTURER'S RECOMMENDATIONS. ACCOUNT FOR PIPE MATERIAL PIPE SIZE, PIPE LENGTHS, TEMPERATURE OF FLUIDS, AND ALL OTHER VARIABLES PERTAINING TO THE INSTALLATION.
- b. INSTALL PIPING TO PREVENT STRAINS AND STRESSES THAT EXCEED THE STRUCTURAL STRENGTH OF THE PIPE. WHERE NECESSARY, PROVISIONS SHALL BE MADE TO PROTECT PIPING FROM DAMAGE RESULTING FROM EXPANSION, CONTRACTION, AND STRUCTURAL SETTLEMENT.
- c. EXPANSION JOINT FITTINGS SHALL BE USED ONLY WHERE NECESSARY TO PROVIDE EXPANSION AND CONTRACTION OF THE PIPES. EXPANSION JOINT FITTINGS SHALL BE OF THE TYPICAL MATERIAL SUITABLE FOR USE WITH THE TYPE OF PIPING IN WHICH SUCH FITTINGS ARE INSTALLED.
- d. IN LIEU OF PROVIDING EXPANSION JOINTS, PIPING OFFSETS SHALL BE PERMITTED WHEN INSTALLED PER THE PIPING MANUFACTURER'S RECOMMENDATIONS.

19. HANGERS & SUPPORTS

a. THE PLUMBING CONTRACTOR MUST FURNISH ALL PIPE SUPPORTS REQUIRED FOR THEIR WORK. ALL PIPING SHALL BE SUPPORTED PER CODE. ADDITIONAL SUPPORTS SHALL BE PROVIDED WHERE REQUIRED TO PREVENT SAGGING, WHERE ALTERNATIVE PIPING MATERIALS ARE USED. HANGER SPACING CAN BE REDUCED AS RECOMMENDED BY THE MANUFACTURER AND WHERE ALLOWED BY CODE.

- a. PROVIDE THERMAL INSULATION ON ALL METALLIC DOMESTIC COLD WATER, DOMESTIC HOT WATER, DOMESTIC HOT WATER RETURN PIPING WITH SELE-SEALING CLOSED CELL ELASTOMERIC FOAM PROVIDE A CONTINUOUS VAPOR TIGHT SEAL. INSULATION SHALL BE CONTINUOUS THRU ALL WALLS AND FLOORS. NFPA FIRE HAZARD RATING FOR INSULATION, ADHESIVES, SEALERS, AND COATINGS MUST NOT EXCEED 25 FOR FLAME SPREAD AND 50 FOR SMOKE DEVELOPED, UNLESS OTHERWISE REQUIRED BY THE LOCAI AUTHORITY OR ENERGY CODES. THE MINIMUM INSULATION LEVELS SHALL BE AS FOLLOWS:
- . PROVIDE 1" THICK ELASTOMERIC INSULATION ON HOT AND HOT WATER RETURN PIPING
- b. PROVIDE INSULATION ON ALL PEX PIPING WHEN USED IN PLENUMS AND WHERE REQUIRED TO MAINTAIN THE REQUIRED FLAME AND SMOKE RATINGS. MOST PEX PIPING 3/4" AND SMALLER SHALL BE INSULATED TO MAINTAIN ITS PLENUM RATED PROPERTY IF 18" SEPARATION BETWEEN THE PIPING CANNOT BE PROVIDED.

21. INSULATION FOR HANDICAP ACCESSIBLE FIXTURES (WHERE NOT PROTECTED

- a. ALL HANDICAP LAVATORY P-TRAP AND ANGLE STOP ASSEMBLIES SHALL BE INSULATED WITH TRAP WRAP PROTECTIVE KIT MANUFACTURED BY PROFLO MODEL PF200 SERIES OR EQUAL. PROVIDE OFFSET TRAPS FOR HANDICAP ACCESSIBLE FIXTURES WHERE REQUIRED. ABRASION RESISTANT ANTI-MICROBIAL VINYL EXTERIOR COVER SHALL BE SMOOTH. FOR TRAPS THE INSULATION MUST HAVE A CLEANOUT NUT CAP TO ALLOW SERVICE TO THE TRAP WITHOUT DISASSEMBLY. FOR STOPS, THE INSULATION MUST HAVE A LOCK LID THAT PREVENTS TAMPERING BUT ALLOWS ACCESS WITHOUT REMOVAL OF THE INSULATION. FASTENERS MUST REMAIN SUBSTANTIALLY OUT OF SIGHT. ACCEPTABLE MANUFACTURERS INCLUDE PROFLO, TRUEBRO, PLUMBEREX, AND DEARBORN.
- 22. CONCRETE HOUSEKEEPING PADS
- a. ALL FLOOR-MOUNTED EQUIPMENT SHALL BE INSTALLED LEVEL AND PLUMB ON 4" THICK CONCRETE HOUSEKEEPING PAD.
- 23. ESCUTCHEON PLATES a. INSTALL ONE-PIECE CHROME PLATED BRASS WALL PLATE EQUIPPED WITH SET SCREW AROUND ALL EXPOSED PIPE PASSING THROUGH WALLS IN

a. LOCATE VALVES IN READILY ACCESSIBLE LOCATIONS. WHERE VALVES SHALL BE INSTALLED ABOVE NON-ACCESSIBLE CEILINGS, PROVIDE ACCESS PANELS. ACCESS PANELS SHALL BE PAINTABLE METAL. COORDINATE ACCESS PANEL SIZES AND LOCATIONS WITH THE ARCHITECT.

25. FIRE STOPPING

24. ACCESS PANELS

a. PROVIDE FIRE STOPPING AT ALL PENETRATIONS THROUGH RATED SEPARATIONS PER LOCAL CODES & REGULATIONS & PER UL RECOMMENDATIONS FOR ASSEMBLIES ENCOUNTERED IN PROJECT. b. THE FIRE STOPPING MATERIAL MUST MEET THE INTEGRITY OF THE FIRE

RATED WALL, FLOOR, CEILING & ROOF BEING PENETRATED. REFER TO

ARCHITECT'S DRAWINGS FOR WALL, FLOOR, CEILING & ROOF FIRE RATINGS PRIOR TO BIDDING WORK.

26. FLASHING & COUNTERFLASHING a. PROVIDE ROOF FLASHING AND COUNTERFLASHING FOR ALL ROOF PENETRATIONS. b. OBTAIN APPROVAL FROM GENERAL CONTRACTOR, CONSTRUCTION

MANAGER, OWNER AND/OR ROOFING CONTRACTOR PRIOR TO MAKING ANY PENETRATIONS SO THAT WARRANTIES ARE NOT COMPROMISED OR

27. CATHODIC PROTECTION a. PROVIDE DIELECTRIC INSULATION AT POINTS WHERE COPPER OR BRASS PIPE COMES IN CONTACT WITH FERROUS PIPING, REINFORCING STEEL OR

OTHER DISSIMILAR METAL IN STRUCTURE.

- 28. EXCAVATION, TRENCHING & BACKFILL a. DO ALL EXCAVATION, TRENCHING & BACKFILL REQUIRED FOR THE INSTALLATION OF PLUMBING WORK.
- b. ALL BACKFILL SHALL BE COMPACTED & BROUGHT TO FINISHED GRADE AND MUST MATCH SURROUNDING CONDITIONS
- c. RESTORE ALL DISTURBED FLOORING TO ORIGINAL CONDITION. d. ALL PIPING SHALL BE LAID ON A BED OF SAND. 6" THICK MINIMUM. BACKFILI UNDER BUILDING AND ALL DRIVES, ROADS AND WALKS WITH BANK-RUN

29. CUTTING AND PATCHING

DISSIMILAR METALS

- a. CUT AND PATCH WALLS AND FLOORS TO MATCH BUILDING CONSTRUCTION WHERE REQUIRED TO INSTALL ALL PLUMBING.
- a. INSTALL UNIONS AT FINAL CONNECTION TO EACH PIECE OF EQUIPMENT INSTALL DIELECTRIC COUPLINGS TO CONNECT PIPING MATERIALS OF

31. INSTALLATION

a. INSTALL PIPING FREE OF SAGS AND BENDS. INSTALL FITTINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS. INSTALL SLEEVES FOR PIPES PASSING THROUGH CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, CONCRETE FLOOR, AND ROOF SLABS. SEAL PIPE PENETRATIONS THROUGH RATED CONSTRUCTION WITH FIRESTOPPING SEALANT MATERIAL. UNDERGROUND WATER AND SEWER LINES SHALL BE LAID IN SEPARATE TRENCHES WITH A MINIMUM HORIZONTAL SPACING AS REQUIRED BY CODE, EXCAVATED TO THE PROPER DEPTH AND GRADED TO PRODUCE THE REQUIRED FALL.

a. ALL PLUMBING WORK SHALL BE TESTED & APPROVED BY INSPECTOR PRIOR TO BEING BACKFILLED, CONCEALED & PUT INTO SERVICE. AFTER TESTING IS COMPLETE & APPROVED, THE PLUMBING CONTRACTOR MUST DISINFECT THE POTABLE WATER SYSTEM AS REQUIRED BY LOCAL AUTHORITY. TEST WATER PURITY ACCORDING TO LOCAL REQUIREMENTS AND SUBMIT CERTIFIED TEST RESULTS TO OWNER FOR REVIEW AND APPROVAL.

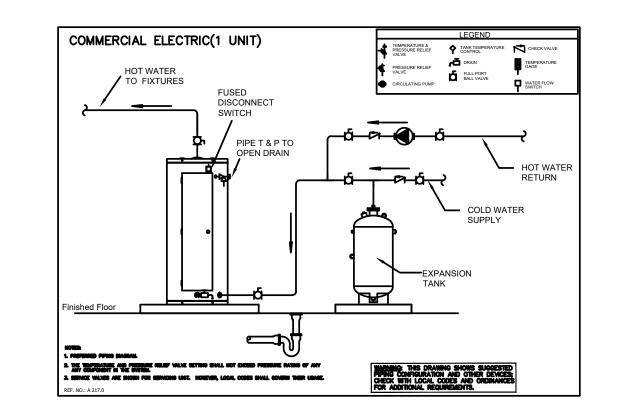
- a. SUBMIT TO THE ARCHITECT PDF FILE COPIES OF COMPLETE & CERTIFIED SHOP DRAWINGS, DESCRIPTIVE DATA, PERFORMANCE DATA & RATINGS, DIAGRAMS AND SPECIFICATIONS ON ALL SPECIFIED EQUIPMENT, INCLUDING ACCESSORIES, AND MATERIALS FOR REVIEW.
- b. THE MAKE, MODEL NUMBER, TYPE, FINISH & ACCESSORIES OF ALL EQUIPMENT AND MATERIALS SHALL BE REVIEWED & APPROVED BY THE PLUMBING CONTRACTOR & GENERAL CONTRACTOR PRIOR TO SUBMITTING TO THE ARCHITECT FOR THEIR REVIEW & APPROVAL.
- c. REVIEW OF SHOP DRAWINGS DOES NOT RELIEVE THE PLUMBING CONTRACTOR/VENDOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DRAWINGS, SPECIFICATIONS & APPLICABLE CODES.

34. OWNER'S INSTRUCTIONS

a. PROVIDE TWO SETS OF COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS WITH DRAWINGS, TYPEWRITTEN INSTRUCTIONS AND OPERATING SEQUENCES AND DESCRIPTIVE DATA SHEETS. ASSEMBLE EACH SET IN A HARD-BOUND COVER.

- a. THE PLUMBING CONTRACTOR MUST UNCONDITIONALLY WARRANT ALL WORK TO BE FREE OF DEFECTS IN EQUIPMENT, MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY OWNER AND THE PLUMBING CONTRACTOR WILL REPAIR OR REPLACE ANY DEFECTIVE WORK PROMPTLY AND WITHOUT CHARGE TO
- b. RESTORE ANY OTHER EXISTING WORK DAMAGED IN THE COURSE OF REPAIRING DEFECTIVE EQUIPMENT, MATERIALS AND WORKMANSHIP. END OF DIVISION 22 - PLUMBING

GAS INPUT SCHEDULE FOR 1807 VINE ST SERVICE ADDRESS: 1807 VINE ST CINCINNATI OH TOTAL EOUIVALENT LENGTH OF PIPE: 125 GAS SERVICE LENGTH: TBD REQUIRED DELIVERY PRESSURE: 7"W.C JUMBER OF METERS: 1 **EQUIPMENT** LOAD (CFH) FURNACE FUTURE GAS LOAD 1700 BUILDING TOTAL 1780



ACCEPTABLE MANUFACTURERS

AMERICAN STANDARD, KOHLER, ZURN

MARK	MARK MANUFACTURER MODEL		HEIGHT	CONNECTION GALLO		KW INPUT	VOLTAGE	PH	HASE GPH @ 90			ADDITIONAL INFORMATION	
EDWH1	A.O SMITH EN	NT-40	TALL	ТОР	40	4.5	208V	1		21			
	·					MIS	CELLANEOUS FIXT	URE SCHED	ULE				
MARK	FIXTURE DESCRIPTION	FIXTURE IV	1ANUFACTURER	FIXTURE MO	ODEL	FAUCET MANUFACTURER	FAUCET MODEL	APPRO	OVED FIXTURE MANUFACTURERS		JRERS	APPROVED FAUCET MANUFACTURER	ADDITIONAL INFORMATION
AAV1 AIR ADMITTANCE VALVE		OATEY		MODA		N/A	N/A	ACCOR, GUY GRAY, SIOUX CHIEF, OATEY		TEY	N/A	PROVIDE WITH LOUVERED FACEPLATE # 37534. PROVIDE FIRE-RATED BOX IF INSTALLED IN FIRE-RATED WALL	
IB1 I	IB1 ICE MAKER WATER SUPPLY BOX OATEY			MODA WITH SURE-VENT		N/A	N/A	ACCOR, GUY GRAY, SIOUX CHIEF, OATEY		TEY	N/A	PROVIDE FIRE-RATED BOX IF INSTALLED IN FIRE-RATED WALL	
SH1	SHOWER CONTROLS AND SHOWER PAN KOHLER		K-8459-0 LEFT - K8458-0 RIGH		458-0 RIGHT	PERRLESS	PTT188782-BL	N/A				KOHLER, AMERICAN STANDARD, SYMMONS, POWERS, DELTA	1.75 GPM MATTE BLACK FINISH
SH2	HOWER CONTROLS AND SHOWE PAN	KOHLER		K-8639-0 LEFT - K8638-0 RIGH		PEERLESS	PTT188782-BL	N/A				KOHLER, AMERICAN STANDARD, SYMMONS, POWERS, DELTA	1.75 GPM MATTE BLACK FINISH
BT1 E	BATH TUB	AMERICAN	I STANDARD	PRINSTON 60"		PEERLESS	PTT188792-BL	N/A				KOHLER, AMERICAN STANDARD, SYMMONS, POWERS, DELTA	MATTE B;ACK FINSH
KS1 k	CITCHENETTE SINK	PROFLO		PLOMOSA 24"		MISENO MIA	P188152LF	ELKAY, JUS	UST			ELKAY, JUST, MOEN, DELTA	PULL DOWN HEAD STAINLES STEEL FINISH 1.5 GPM W/CRUMB CUP STRAINER
WB1 WASHER SUPPLY/DRAIN BOX OATEY		OATEY		MODA		N/A	N/A	SYMMONS	SYMMONS, GUY GRAY, SIOUX CHIEF, OATEY			N/A	PROVIDE FIRE-RATED BOX IF INSTALLED IN FIRE-RATED WALL
							DRAIN SCHED	ULE					
MARK DESCRIPTION BASE MANUF				JRER MC	DDEL#		FINISH				AD	DITIONAL FEATURES	ACCEPTABLE MANUFACTURERS
DN1	DOWNSPOUT NOZZL		ZURN		99-SS	NICKEI		REMOVABLE STAINLESS STEEL SCREEN				ZURN, SMITH, WATTS, WADE, JOSAM, MIFAB	
FD1	ON-GRADE FLOOR DRAIN (UNFIN	NISHED AREAS)	OATEY	TRUE SET ON-	GRADE TP SERIE	S PVC BODY, 5" NICKEL-	BRONZE STRAINER W	ITH RING		TRAP PRIM	ER, SQUAR	SIOUX CHIEF, OATEY, NSF, JUMBO	

	RD1	ROOF DRAIN	SIOUX CHIEF	868-E-S-U	PVC BODY,POLYETHYI	LENE DOME		EXT	TENSION, ROOF SUMF	P, UNDERDECK CLAMP		SIOUX CH	IEF, OATEY,	NSF, JUMBO		
										LAVATORY SCH	IEDULE					
	MARK	LAVATORY DESCRIPTION	FIXTURE MANUFACTURER	FIXTURE MODEL	FAUCET MANUFACTURER FAUCET	MODEL	MATERIAL	USE	MOUNTING	STYLE	CONTROL	FLOW RATE	DRAIN	APPROVED FIXTURE MANUFACTURERS	APPROVED FAUCET MANUFACTURERS	ADDITIONAL INFORMATION
LV	1	UNDERMOUNT	KOHLER	K-2000	DELTA MODERN BLA	CK FINISH	CHINA	GENERAL	UNDERMOUNT	UNDERMOUNT	MANUAL	1	POP-UP	AMERICAN STANDARD, KOHLER, ZURN	AMERICAN STANDARD, KOHLER, ZURN, BRADLEY, CHICAGO FAUCET, SPEAKMAN, T&S, SYMMONS, POWERS, MOEN, DELTA	INSULATE SUPPLIES & DRAIN WHERE NOT PROTECTED WITH SHROUD
LV	2	UNDERMOUNT	DURAVIT	316530017	DELTA MODERN BLA	CK FINISH	CHINA	ADA	WALL-HUNG	N/A	MANUAL	1	GRID	AMERICAN STANDARD, KOHLER, ZURN	AMERICAN STANDARD, KOHLER, ZURN, BRADLEY, CHICAGO FAUCET, SPEAKMAN, T&S, SYMMONS, POWERS, MOEN, DELTA	PROVIDE WITH FLOOR-MOUNTED CARRIER AND INSULATE SUPPLIES & DRAIN WHERE NOT PROTECTED WITH SHROUD
				-	·			-	-	WAT	TER CLOSET SCHEDULE	-				

IELONGATED

SIOUX CHIEF, OATEY, NSF, JUMBO

FLUSH VALVE TYPE

NOT APPLICABLE MANUAL

SIOUX CHIEF, OATEY, NSF, JUMBO

CONTROL

FLOW RATE

SEAT-TYPE

FLANGED DRAIN, TRAP PRIMER, SQUARE STRAINER IF INSTALLED IN TILE FLOOR

EXTENSION, ROOF SUMP, UNDERDECK CLAMP

MOUNTING

PLUMBING DETAILS

WHITE FINISH

APPROVED FLUSH VALVE MANUFACTURERS | ADDITIONAL INFORMATION

Progress Dates 05/05/2023 BID P/E/FP

Checked By: SSS

Drawn by: DAG



515 Monmouth Street, Suite 204

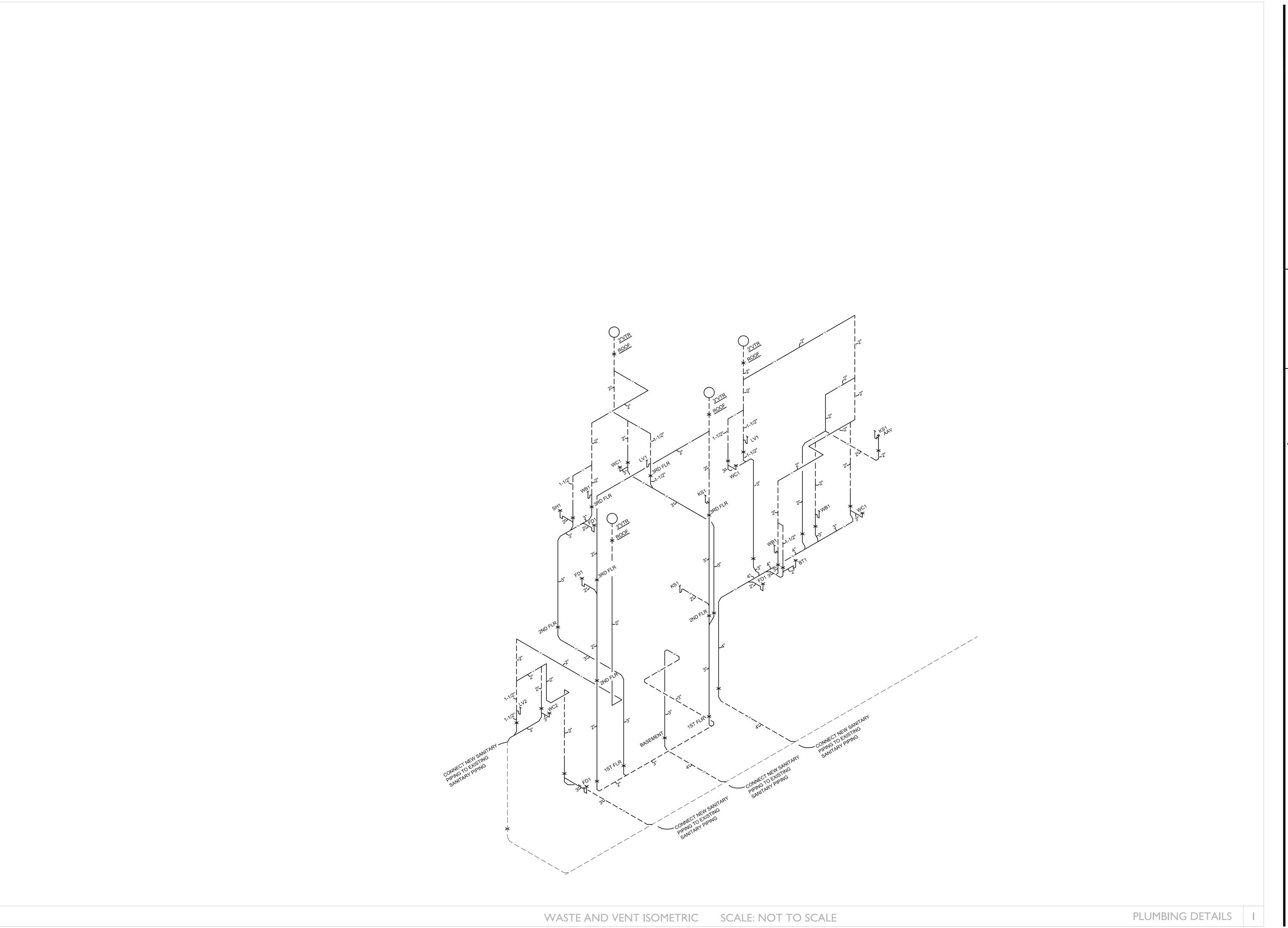
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8/10/2022

Job No: 22042



Progress Dates 05/05/2023 BID P/E/FP Checked By: SSS Drawn by: DAG ENGINEERED BUILDING SYSTEMS INC. TEAMWORK • COLLABORATION
SHARED SUCCESS
515 Monmouth Street, Suite 204
Newport, KY 41071 (859) 261-0585
MEP Consulting Services, Inc. in OH
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