1808 REPUBLIC ST. / 1810 REPUBLIC ST. CINCINNATI, OHIO, 45202

FINDLAY FLATS RENOVATION

STRUCTURAL ENGINEER

MEP ENGINEER

ENGINEERED BUILDING SYSTEMS, INC. NEWPORT, KY 41071

CIVIL ENGINEER

PLATTE DESIGN 1810 CAMPBELL ALLEY, STE 300

ARCHITECT

CLIENT/DEVELOPER

1203 WALNUT STREET CINCINNATI, OH 45202

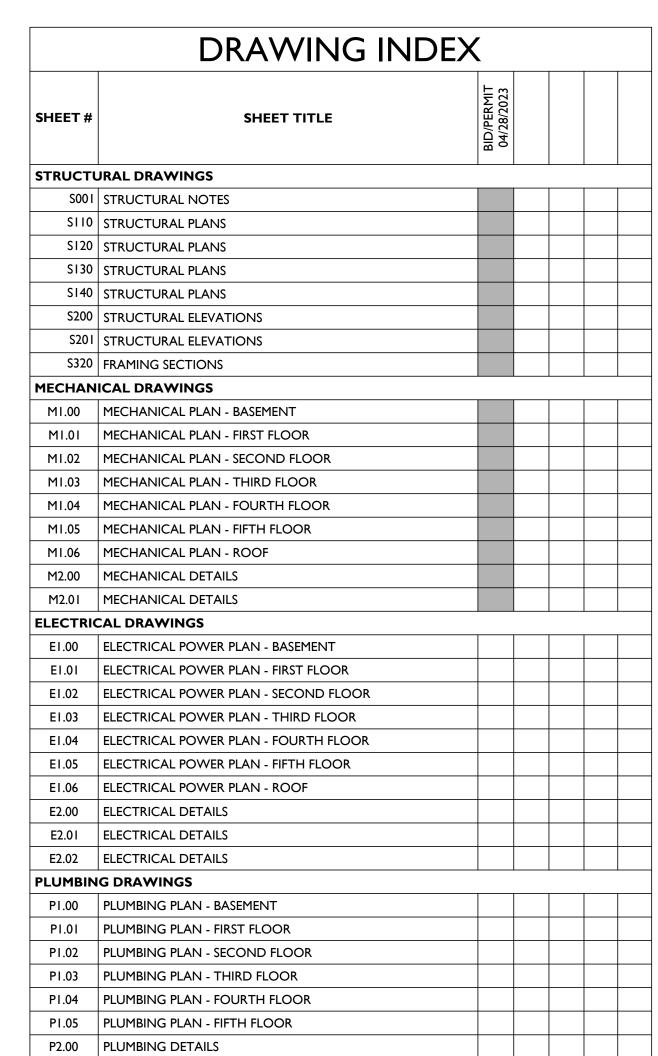
ADVANTAGE GROUP 1527 MADISON ROAD, FL 2 CINCINNATI, OH 45206 (513) 396-8900

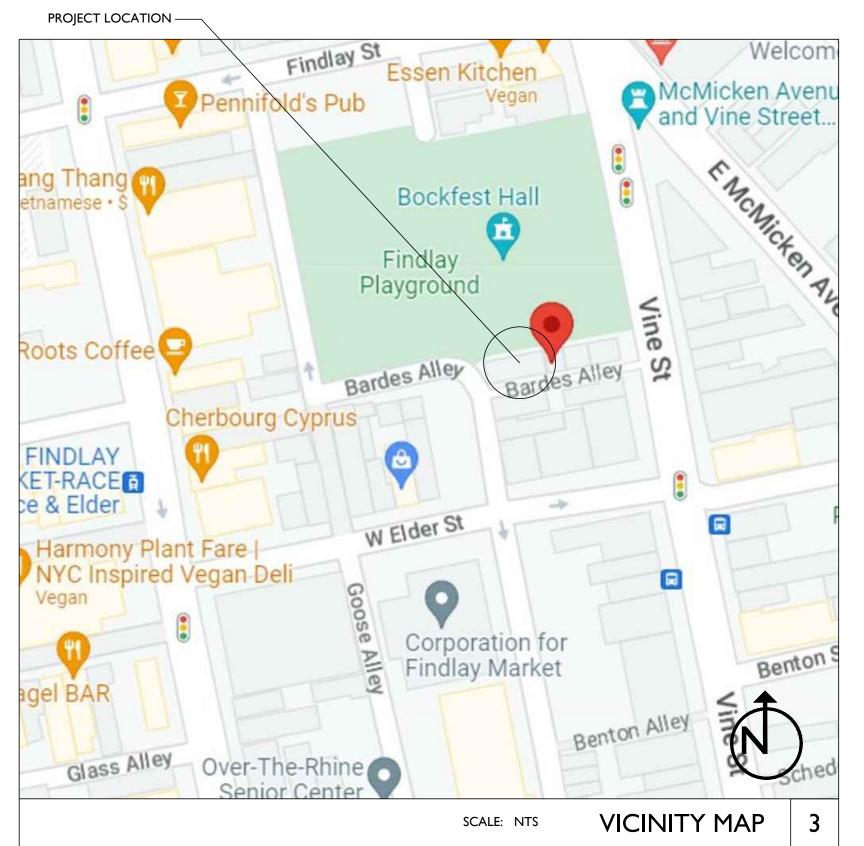
515 MONMOUTH STREET, SUITE 201 (859) 261-0585

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

CINCINNATI, OH 45202 (513) 871-1850 (513) 621-4400

DRAWING INDEX SHEET# SHEET TITLE **GENERAL DRAWINGS** A0.01 EGRESS DIAGRAMS & CODE SUMMARY CIVIL/LANDSCAPE DRAWINGS CI.00 SITE SURVEY & EXG. CONDITIONS C2.00 PROPOSED SITE PLAN C3.00 PROPOSED GRADING PLAN **ARCHITECTURAL DRAWINGS** ADI.00 BASEMENT PLAN ADI.01 FIRST FLOOR PLAN ADI.02 SECOND FLOOR PLAN ADI.03 THIRD FLOOR PLAN ADI.04 FOURTH FLOOR PLAN ADI.05 FIFTH FLOOR PLAN ADI.06 ROOF PLAN AD2.00 EAST ELEVATION AD2.01 SOUTH ELEVATION AD2.02 WEST ELEVATION AD2.03 NORTH ELEVATION A1.00 GENERAL NOTES A1.10 BASEMENT PLAN AI.II FIRST FLOOR PLAN A1.12 SECOND FLOOR PLAN A1.13 THIRD FLOOR PLAN A1.14 FOURTH FLOOR PLAN A1.15 FIFTH FLOOR PLAN AI.16 ROOF PLAN A1.20 BASEMENT RCP A1.21 FIRST FLOOR RCP A1.22 SECOND FLOOR RCP THIRD FLOOR RCP A1.24 FOURTH FLOOR RCP A1.25 FIFTH FLOOR RCP A2.10 EAST ELEVATION A2.11 SOUTH ELEVATION A2.12 WEST ELEVATION A2.13 NORTH ELEVATION A4.00 FINISH SCEDULE & PLANS A4.10 INT ELEV A4.20 INT ELEV A5.00 DETAILS ASSEMBLIES A6.00 A6.01 ASSEMBLIES A6.02 DETAILS A6.10 DOOR SCHEDULE DOOR TYPES & DETAILS A6.20 WINDOW AI BI COLORED ELEVATION A8.01 COLORED ELEVATION A9.01 EGC SPECS A9.02 EGC SPECS A9.03 EGC SPECS A9.04 EGC SPECS





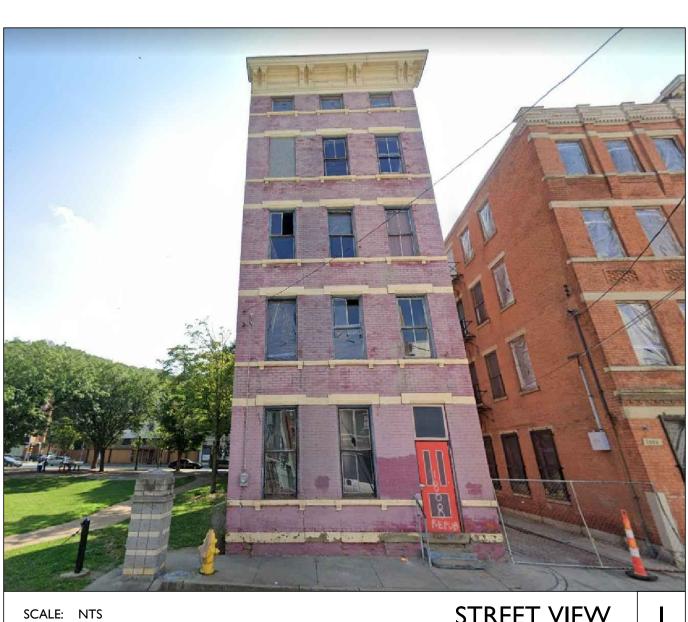
TYPI	CAL ABBRE	VIATI	ONS			TYPICAL	. SYMBOLS
ADJ A.F.F.	ADJACENT ABOVE FINISH	EXG EXT	EXISTING EXTERIOR	N.I.C. N.I.S.	NOT IN CONTRACT	\bigcirc	NORTH ARROW
ALT	FLOOR ALTERNATE	FDC	FIRE DEPARTMENT CONNECTION	N.T.S. OBC	NOT TO SCALE OHIO BUILDING	•	EGRESS WINDOW
ALUM APPROX	ALUMINUM APPROXIMATELY	FDN F.E.	FOUNDATION FIRE EXTINGUISHER	O.C.	CODE ON CENTER	01	KEYNOTE
APT BD	APARTMENT BOARD	F.F.E.	FINISH FLOOR ELEVATION	OPNG OPP	OPENING OPPOSITE	ــــــ ـــــــــــــــــــــــــــــــ	CENTERLINE TAG
BLDG C.L. C.J.	BUILDING CENTER LINE CONTROL JOINT	FLR FTG G.C.	FLOOR FOOTING GENERAL	O/ PLWD PLUMB	OVER PLYWOOD PLUMBING	◆ ^{X'-X"}	FLOOR ELEVATION TAG
CLG CLR C.M.U.	CEILING CLEAR DIMENSION	GYP	CONTRACTOR GYPSUM HOLLOW METAL	PT. RCP	PRESSURE TREATED REFLECTED CEILING PLAN		REVISION CLOUD TAG
C.M.U.	CONCRETE MASONRY UNIT COLUMN	H.M. HR HORIZ	HOLLOW METAL HOUR HORIZONTAL	REQ REV	REQUIRED REVISED/REVISION		wg # neet #
CONC	CONCRETE CONTINUOUS/ CONTINUED	HVAC	HEATING, VENTILATION, & AIR CONDITIONING	R.O. R.O.W.	ROUGH OPENING RIGHT OF WAY SECTION	A2.00	ELEVATION TAG
CONTR DIAG	CONTRACTOR DIAGONAL	INCL	INCLUDED/ INCLUDING	SIM SF	SIMILAR SQUARE FEET		lwg # heet #
DIA or Ø DIM(S) D.O.T.E.	DIAMETER DIMENSION(S) DEPARTMENT OF	INFO INSUL	INFORMATION INSULATED/ INSULATING	SPEC STRUCT T.O. or T/		X A4.01 X	INTERIOR ELEVATION TAG
	TRANSPORTATION & ENGINEERING	INT L.L.	INTERIOR LIVE LOAD	T&G	TONGUE & GROOVE		lwg #
D.L. D.S. DTL(S) DWG(S)	DEAD LOAD DOWNSPOUT DETAIL(S) DRAWING(S)	MATL MECH MEP	MATERIAL MECHANICAL MECHANICAL, ELECTRICAL &	TYP U.N.O. V.B.	TYPICAL UNLESS NOTED OTHERWISE VAPOR BARRIER	A3.01	SECTION CUT TAG
EA ELEC	EACH ELECTRICAL	MIN	PLUMBING MINIMUM	VERT	VERTICAL VERIFY IN FIELD		heet # DETAIL CALLOUT
ELEV(S) E.J. EQ	ELEVATION(S) EXPANSION JOINT EQUAL	MAX MANUF N/A	MAXIMUM MANUFACTURER NOT APPLICABLE	W/ W/O WD	WITH WITHOUT WOOD	A4.01)
	•		-			~	 *

PROJECT DESCRIPTION

PROJECT HAS BEEN SUBMITTED FOR HISTORIC TAX CREDITS WITH THE STATE HISTORIC PRESERVATION OFFICE

SCALE: NTS





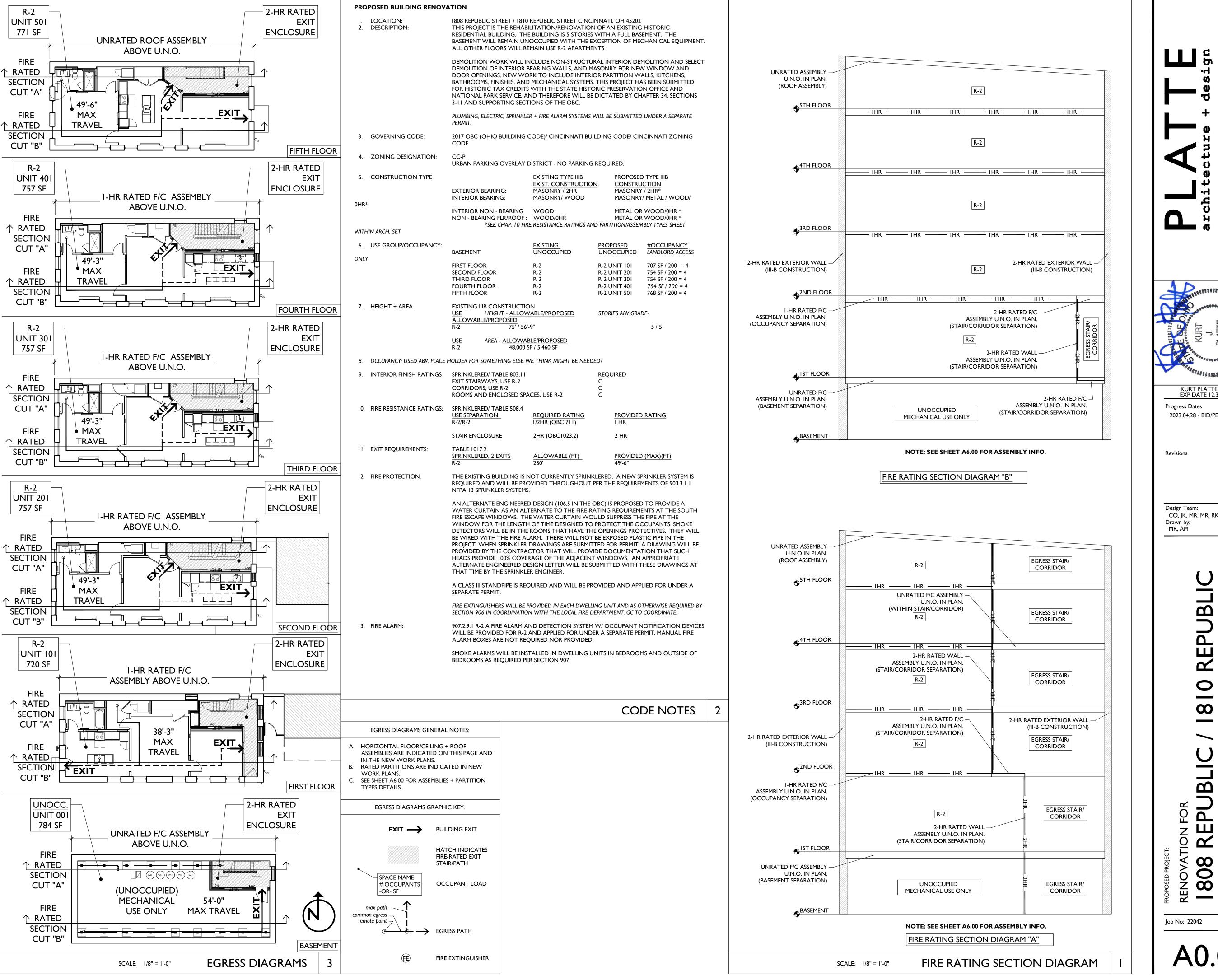
STREET VIEW

AERIAL IMAGE

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

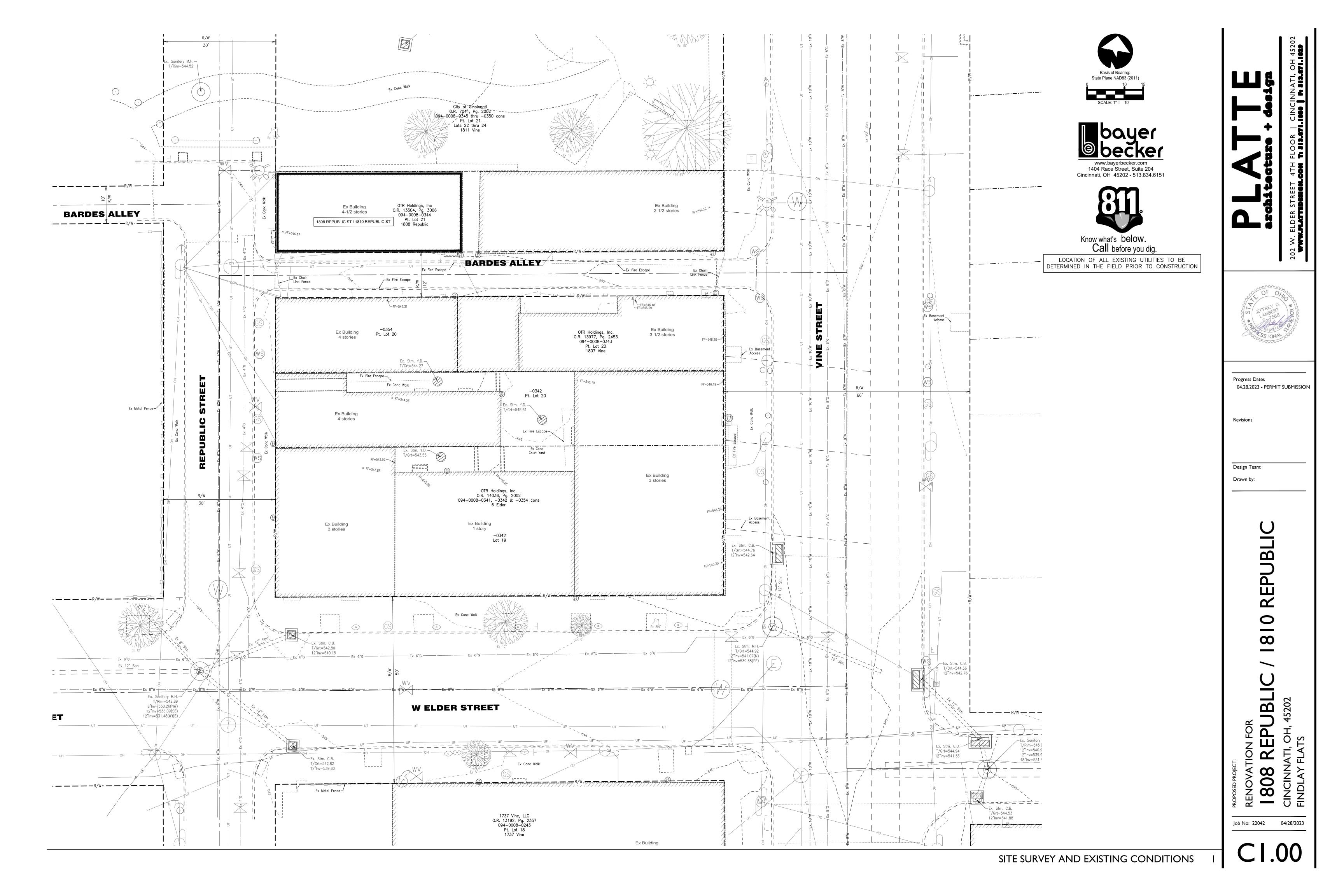
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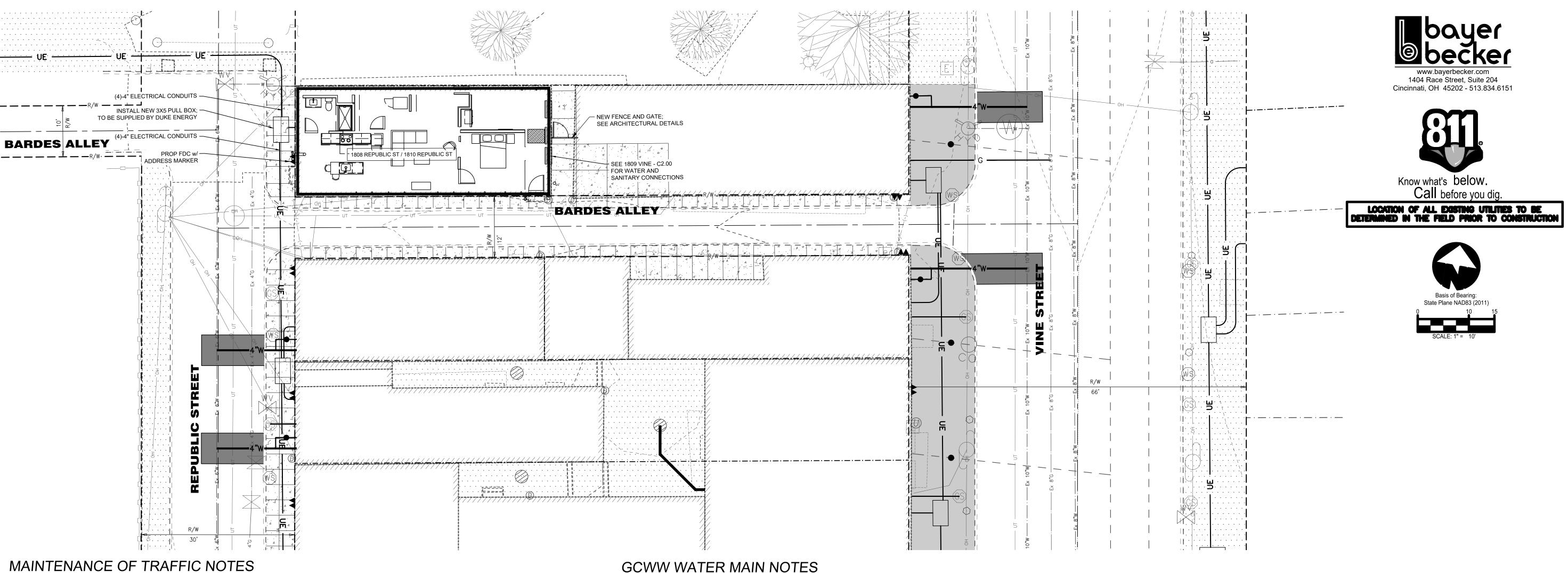


KURT PLATTE 10833 EXP DATE 12.31.2023

2023.04.28 - BID/PERMIT

CO, JK, MR, MR, RK, RO, SO, TB





- ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT STATE OF OHIO DEPARTMENT OF TRANSPORTATION. CONSTRUCTION AND
- MATERIAL SPECIFICATIONS, AND CURRENT STANDARD DRAWINGS, UNLESS OTHERWISE NOTED ALL WORK SHALL BE DONE IN ACCORDANCE WITH ITEM 614 AND OTHER APPLICABLE PORTIONS OF THE C&M SPECIFICATIONS AS WELL AS IN ACCORDANCE WITH PART 7 OF OMUTCD. LANE CLOSURES SHALL BE IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWINGS MT-97.10,
- 3. LOCAL TRAFFIC SHALL BE MAINTAINED AT ALL TIMES THROUGH THE USE OF FLAGGERS AND SAFETY CONES, AS DIRECTED BY THE CITY ENGINEER.
- 4. THE CONTRACTOR MUST COORDINATE THE WORK SO AS TO NOT INTERRUPT INGRESS AND EGRESS FROM AFFECTED PROPERTIES.
- IF THE CONTRACTOR SO ELECTS, HE MAY SUBMIT ALTERNATE METHODS FOR THE MAINTENANCE OF TRAFFIC, PROVIDED THAT THE INTENT OF THE ABOVE PROVISIONS IS FOLLOWED AND NO ADDITIONAL INCONVENIENCE TO THE TRAVELING PUBLIC RESULTS THEREFROM. NO ALTERNATE PLAN WILL BE PUT INTO EFFECT UNTIL THE APPROVAL HAS BEEN GRANTED, IN WRITING, BY THE CITY OF CINCINNATI DOTE.

A) IF THE BACKFLOW PREVENTER IS ALLOWED TO BE INSTALLED INSIDE

A BUILDING, THAT PORTION OF THE SERVICE PIPING BETWEEN THE

B) THE BACKFLOW PREVENTER INSIDE A BUILDING SHALL BE LOCATED

AS CLOSE AS POSSIBLE TO THE POINT WHERE THE PIPING ENTERS

THE BUILDING. THIS LOCATION SHALL BE DETERMINED BY THE

C) THE BACKFLOW PREVENTER SHALL BE INSTALLED DOWNSTREAM OF

TEST COCKS FACING THE CENTER OF THE ROOM.

D) WATER WILL BE SPILLED DURING PERIODIC TESTING OF ALL

PRESSURE TYPE PREVENTERS. FOR THIS REASON, IT IS

BACKFLOW PREVENTERS AND DURING OPERATION OF REDUCED

RECOMMENDED THAT A FLOOR DRAIN BE INSTALLED AS CLOSE AS

E) IN LIEU OF A FLOOR DRAIN, THE DISCHARGE FROM A REDUCED

PRESSURE BACKFLOW PREVENTER MAY BE PIPED TO A SEWER

PROVIDED AN APPROVED AIR-GAP IS MAINTAINED AT THE RELIEF

GENERAL BACKFLOW SETTINGS

INSIDE SETTING

OF BACKFLOW PREVENTER

THE METER, A MINIMUM OF 24" FROM THE NEAREST WALL, WITH THE

METER AND THE BACKFLOW PREVENTER SHALL BE VOID OF

BRANCHES OR OUTLETS OF ANY KIND.

POSSIBLE TO THE DEVICE.

VALVE OF THE DEVICE.

CINCINNAT

- THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES.
- NO TRENCH SHALL BE LEFT OPEN OVERNIGHT. IN CASE WORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UNCOMPLETED WORK SHALL BE PLATED OR BACKFILLED AT THE DIRECTION OF THE COUNTY ENGINEER.
- 8. THE CONTRACTOR SHALL HAVE ALL EXISTING UTILITIES LOCATED PRIOR TO BEGINNING CONSTRUCTION.

- 1. ALL WATER WORK AND WATER MAIN MATERIALS INCLUDING PIPE, FITTINGS, VALVES, HYDRANTS, AND INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF GREATER CINCINNATI WATER WORKS. THE MOST RIGID SPECIFICATIONS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH THE PROJECT SPECIFICATIONS. 2. ALL WATER FACILITIES ON THIS PROJECT ARE TO BE PRIVATE.
- 3. BACKFILL SHALL BE CLASS A WHEN MAIN IS FIVE (5) FEET OR GREATER FROM EXISTING PUBLIC CURB. LESS THAN FIVE (5) FEET FROM EXISTING PUBLIC CURB, UNDER CURB OR EXISTING PUBLIC PAVEMENT BACKFILL SHALL BE CONTROLLED DENSITY FILL.
- 4. WATER MAINS SHALL MAINTAIN A MINIMUM COVER OF FOURTY TWO (42) INCHES.
- 5. A MINIMUM CLEAR DISTANCE OF TEN (10) FEET HORIZONTAL AND EIGHTEEN (18) INCHES VERTICAL SHALL BE MAINTAINED BETWEEN SANITARY AND/OR STORM SEWERS AND WATER MAINS.
- 6. SANITARY AND STORM SEWERS THAT CROSS WATER MAINS SHALL BE LOCATED SUCH THAT THE SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS.
- 7. PRIVATE WATER MAINS BEYOND THE METER PIT MAY BE C900 DR18 FOR WORKING PRESSURES LESS THAN 150 PSI. FOR
- DESIGN PRESSURES GREATER THAN 150 PSI, DUCTILE IRON PRESSURE CLASS 350 OR C900 DR 14 SHALL BE USED. 8. SERVICE PIPING SMALLER THAN THREE (3) INCHES SHALL BE SEAMLESS COPPER FLEXIBLE WATER TUBING, ASTM B 88, TYPE K,

BRANCH APPLICATION PLAN VERIFY DISCLAIMER

ALL EXISTING UTILITY AND RECORD INFORMATION DEPICTED ON THE DRAWING: INCLUDING BUILDING FOOTPRINT

(WHICH MUST SHOW ANY ENCROACHMENTS INTO THE PUBLIC RIGHT OF WAY, INCLUDING; BUT NOT LIMITED TO;

BASEMENT AREAS, ROOT CELLARS AND COAL CHUTES), PARCEL AND EASEMENT INFORMATION, ROADWAY AND

ANY AND ALL DAMAGES OR NEED FOR ADDITIONAL WORK; RESULTING FROM INACCURACY ON THE PART OF THE

THIS PLAT/SHEET HAS BEEN PREPARED BY THE APPLICANT FOR WATER SERVICE.

RIGHT OF WAY LOCATION ARE THE RESULT OF RESEARCH BY THIS APPLICANT.

APPLICANT IS THE APPLICANT'S SOLE FINANCIAL RESPONSIBILITY.

3/4" AND 1" METERS - COUPLING

MSD SEWER NOTES

FLOOR DRAIN RECOMMENDED

1. SANITARY PIPE MATERIAL SHALL BE 6" PVC SDR-35 @2.00% MINIMUM.

2. IF LOWEST LEVEL ELEVATION IS BELOW RIM ELEVATION OF UPSTREAM MANHOLE, THEN TAP MUST INCLUDE BACKFLOW PREVENTION OR BE PUMPED TO GRAVITY.

BACKFLOW PREVENTER TO BE NO

SMALLER THAN METER SIZE

FLOOR DRAIN RECOMMENDED

SITE PERMITS NOTES

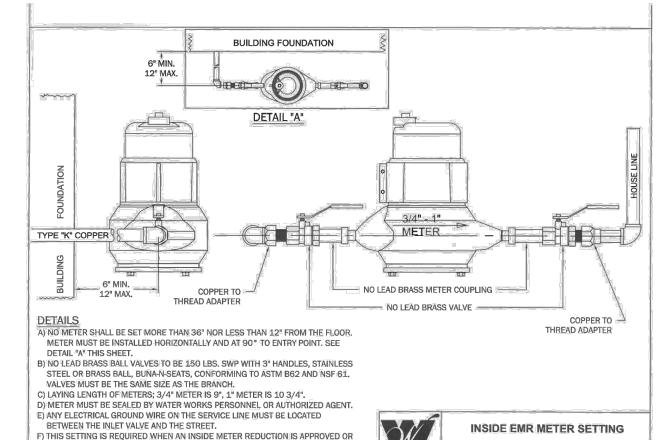
CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL CITY OF CINCINNATI PERMITS FOR PROPOSED SITE WORK, INCLUDING (BUT NOT LIMITED TO): GCWW BRANCH APPLICATION, MSD TAP PERMIT, DOTE RIGHT-OF-WAY PERMIT (FOR UTILITY CONNECTIONS, STREET/WALK CLOSURE, AND PAVEMENT INSTALLATION), DOTE BARRICADE PERMIT, DOTE REVOCABLE STREET PERMIT (IF APPLICABLE).

BRANCH REPLACEMENT OCCURS.

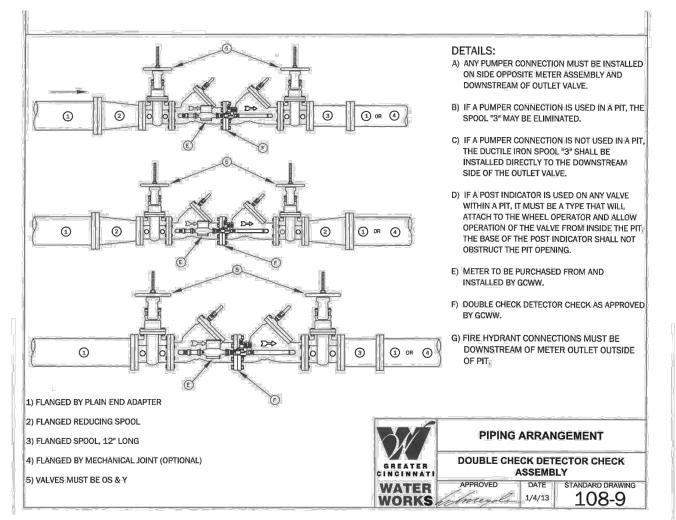
H) SEE 108-1D FOR DETAILS.

RUNNING WIRE, SEALED WITH A FLEXIBLE SEALANT.

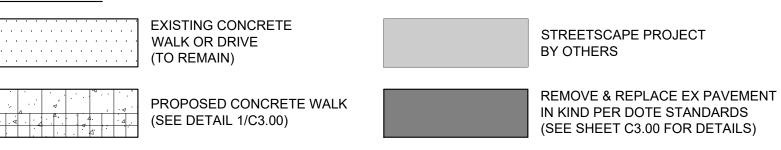
G) A 1/4" HOLE MUST BE DRILLED THROUGH THE FOUNDATION/WALL AND AFTER

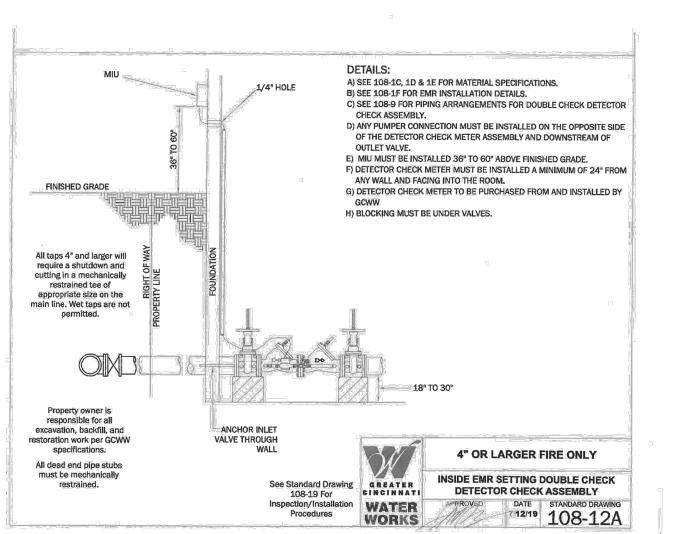


WATER









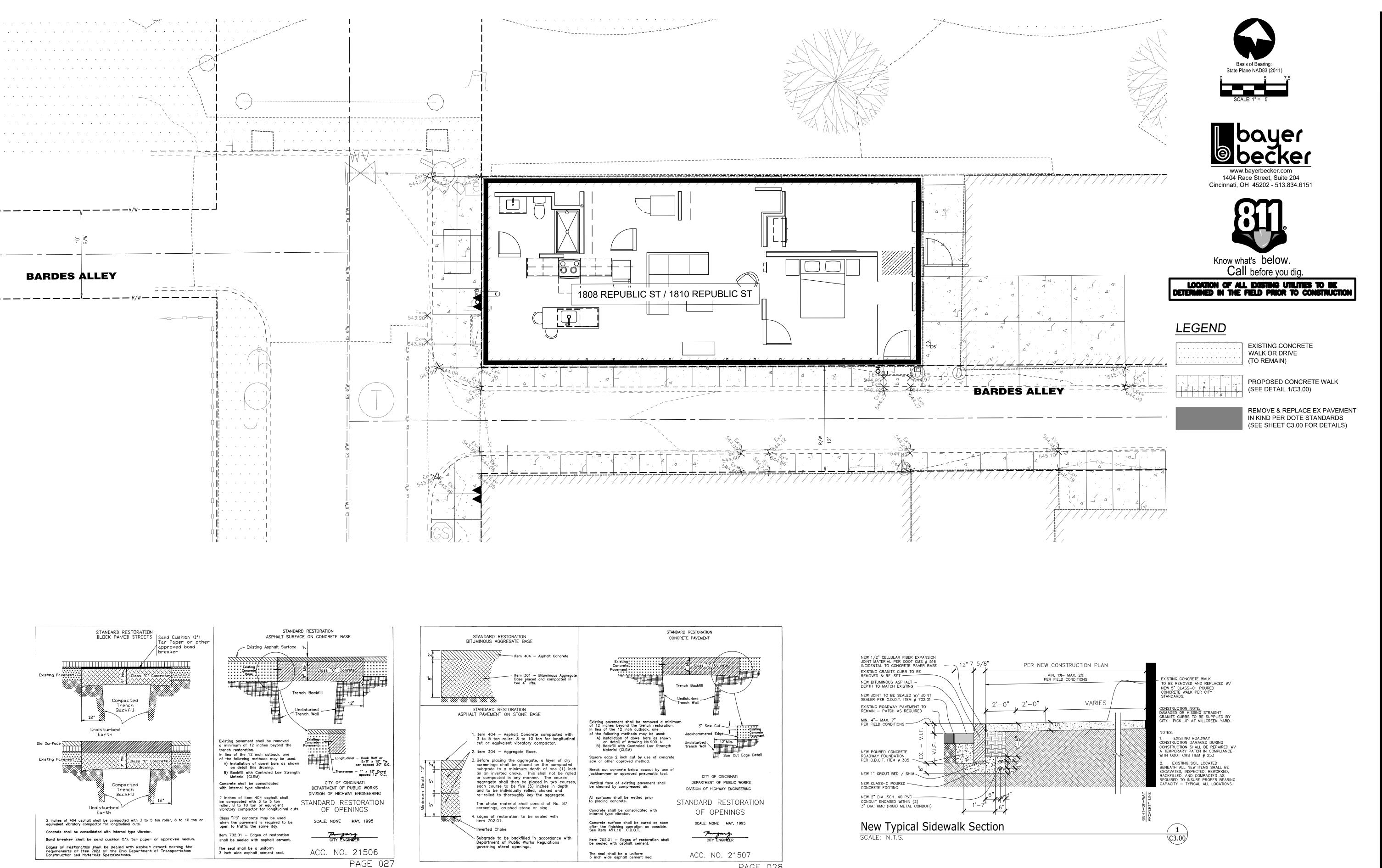
Progress Dates 04.28.2023 - PERMIT SUBMISSION

Drawn by: EFS

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Job No: 22042 04/28/2023

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PAGE 028

Progress Dates 04.28.2023 - PERMIT SUBMISSION

Drawn by: EFS

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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 SITE WALL/STRUCTURE TO BE REMOVED. 2.5 SEE CIVIL DRAWINGS FOR SIDEWALK/STREETSCAPE SCOPE.

3.1 EXG CONCRETE STEPS TO BE RETAINED. REPAIR AS REQ.

3. CONCRETE

4. MASONRY 4.1 EXG CHIMNEY TO REMAIN.

5. METALS

5.1 NOT USED.

- 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.
- 6.3 REPAIR/RETAIN EXG HISTORIC MANTLE & TRIM.
- 7. THERMAL AND MOISTURE PROTECTION
- 7.1 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. OPENINGS 8.1 REMOVE NON-HISTORIC WINDOW & NON-HISTORIC FRAME
- ENTIRELY, BACK TO MASONRY OPENING. 8.2 REMOVE NON-HISTORIC DOOR & FRAME ENTIRELY, BACK TO
- MASONRY OPENING. 8.3 NEW OR EXPANDED OPENING IN EXG HISTORIC WALL. SEE NEW
- 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. ALL WINDOW COMPONENTS ARE TO BE SALVAGED FOR RE-USE AT THE WEST ELEVATION. 8.6 EXG HISTORIC DOOR, FRAME, AND TRANSOM TO REMAIN IN PLACE.

REPAIR AS REQ. SEE NEW WORK PLANS & DOOR TYPES/SCHEDULE

8.7 EXG HISTORIC FRAME, AND TRANSOM TO REMAIN IN PLACE. DOOR IS TO BE RELOCATED. REPAIR AS REQ. SEE NEW WORK PLANS & DOOR TYPES/SCHEDULE FOR MORE INFORMATION.

9. FINISHES

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

SUBFLOOR.

FOR MORE INFORMATION.

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. 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

BRICKS AT INTERIOR WYTHES. F. RETAIN HISTORIC EXTERIOR ORNAMENT-

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,

UNO. RETAIN AND REPAIR PLASTER AT HISTORIC

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.

O. NON-HISTORIC STAIRS (SHOWN DASHED).

FLOOR LEVELS, INCLUDING BASEMENT & ATTIC.

DOORS, TRANSOMS, AND SIDELITES.

M. SUSPENDED ACOUSTICAL CEILINGS.

HISTORIC TRIM.

OTHERWISE:

DASHED).

DEMO GENERAL NOTES:

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, RECEPTACLES, WIRING, PANELS, ETC. BACK TO

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

R. DETERIORATED WOOD SUBFLOOR: REPLACE WITH

. 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.

KEYNOTE

EXG EXTERIOR WALL TO REMAIN

EXG INTERIOR WALL

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

DEMO WORK GRAPHIC KEY:

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

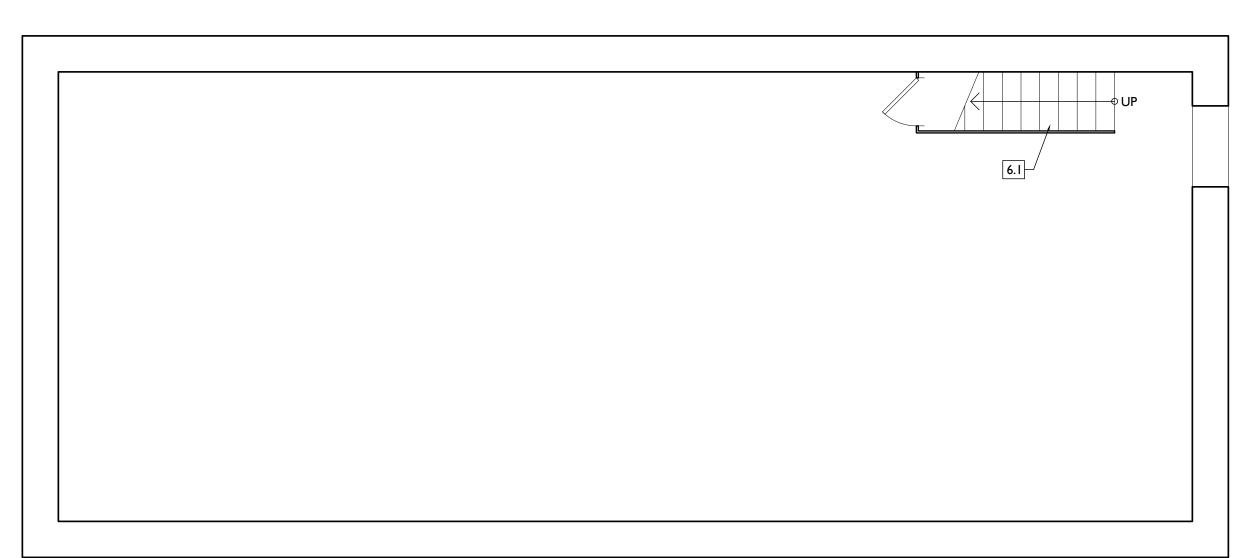
Revisions

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

REPUBLIC <u>0</u>

REPUBLIC









EXG EXTERIOR WALL

KEYNOTE

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- 2.5 SEE CIVIL DRAWINGS FOR SIDEWALK/STREETSCAPE SCOPE.

3.1 EXG CONCRETE STEPS TO BE RETAINED. REPAIR AS REQ.

4. MASONRY 4.1 EXG CHIMNEY TO REMAIN.

5. METALS

3. CONCRETE

5.1 NOT USED.

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- 7.1 REMOVE NON-HISTORIC GUTTER & DOWNSPOUTS.
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REPAIR AS REQ. SEE NEW WORK PLANS & DOOR TYPES/SCHEDULE

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9.2 REMOVE NON-HISTORIC FINISH FLOORING DOWN TO WOOD SUBFLOOR.

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. 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

BRICKS AT INTERIOR WYTHES. F. RETAIN HISTORIC EXTERIOR ORNAMENT-CORNICES, FRIEZES, BRACKETS, ETC.

MANTLES, BASEBOARDS, CROWN MOULDING,

BEING REMOVED OR WHERE NEW FURRING IS

PROPOSED, CAREFULLY REMOVE & RETAIN

I. RETAIN HISTORIC INTERIOR AND EXTERIOR

BRICK MOULD AND SHUTTER HARDWARE.

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.

HISTORIC TRIM.

OTHERWISE:

DASHED).

G. RETAIN HISTORIC STOREFRONT ELEMENTS -

H. RETAIN HISTORIC INTERIOR WOOD TRIM -

R. DETERIORATED WOOD SUBFLOOR: REPLACE WITH NEW PLYWOOD SUBFLOOR, SEE PROPOSED.

S. NON-HISTORIC CABINETRY. 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 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

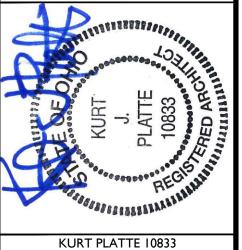
TO REMAIN **EXG INTERIOR WALL** TO REMAIN

__ _ _ 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

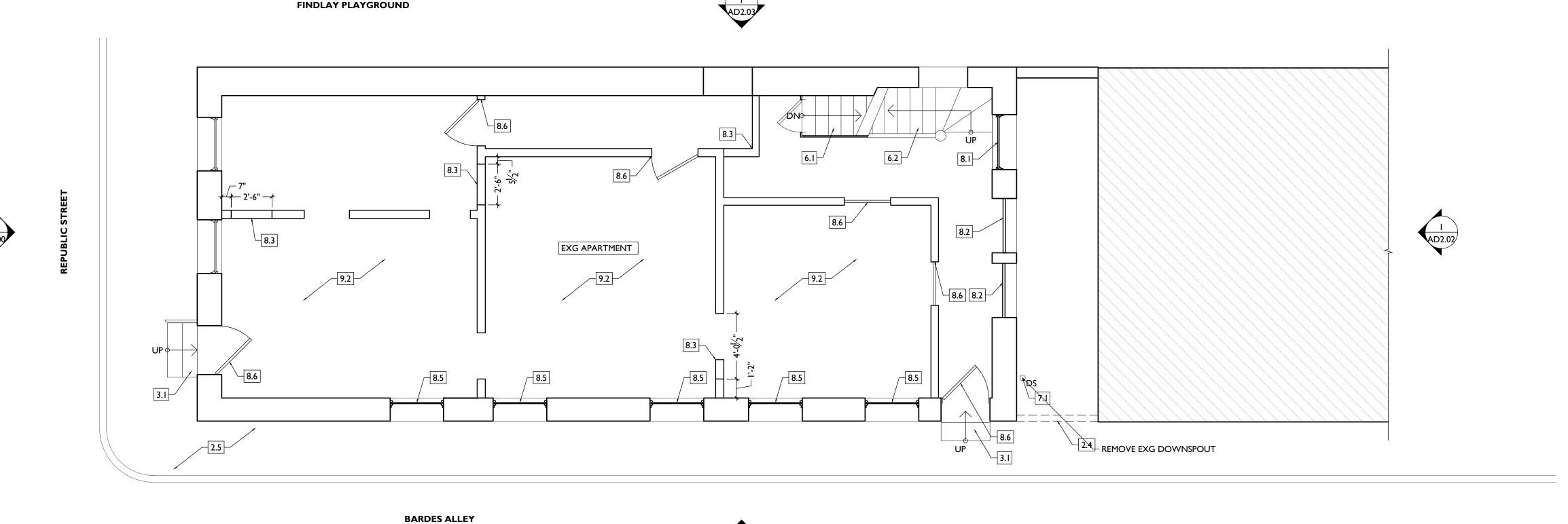


EXP DATE 12.31.2023 Progress Dates 2023.04.28 - BID/PERMIT

Revisions

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

REPUBLIC <u>0</u> **PUBLIC**



COLUMNS, LINTELS, THRESHOLDS, GLAZING, ETC. PANELING AND WALLCOVERING.

WALL PANELS, WAINSCOTING, WINDOW FRAMES, TO SERVICE. DOOR FRAMES, ETC. AT WALLS WHERE PLASTER IS

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> REMOVE THE FOLLOWING, UNLESS NOTED OTHERWISE:

BRICKS AT INTERIOR WYTHES.

HISTORIC TRIM.

F. RETAIN HISTORIC EXTERIOR ORNAMENT-

G. RETAIN HISTORIC STOREFRONT ELEMENTS -

H. RETAIN HISTORIC INTERIOR WOOD TRIM -

MANTLES, BASEBOARDS, CROWN MOULDING,

BEING REMOVED OR WHERE NEW FURRING IS

PROPOSED, CAREFULLY REMOVE & RETAIN

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CORNICES, FRIEZES, BRACKETS, ETC.

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WINDOWS, AND INTERIOR TRIM REMAINS LARGELY

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

THROUGHOUT THIS PROJECT, HISTORIC DOORS,

PRESERVATION TAX CREDIT PROJECT.

SPECIFICALLY NOTED OTHERWISE.

TO REMAIN OR BE SALVAGED FOR REUSE.

DURING DEMOLITION, STOP WORK AND

CONTACT ARCHITECT IMMEDIATELY FOR

TO DEMOLITION.

IN CORRIDORS.

EDGES U.N.O.

STRUCTURAL ENGINEER.

SHALL BE SWEPT BROOM CLEAN.

ELEMENTS TO BE RETAINED:

3. PROVIDE SHORING AS REQUIRED.

B. IF UNEXPECTED HISTORIC TRIM IS UNCOVERED

DOCUMENTATION AND POSSIBLE SHPO/NPS

OPENINGS IN MASONRY AND EXTERIOR WALLS:

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

HISTORIC BRICK FOR REUSE & CAREFULLY SORT

AND SEPARATE HARD-FIRED FACE BRICK FROM

ADDITIONAL INFORMATION REGARDING

DAMAGED, CONTACT ARCHITECT AND

I. VERIFY ANY INFILL IS NON-LOADBEARING PRIOR

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

BRICK IS NOT EXPOSED, EXCEPT WHERE NOTED 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. E. IN AREAS OF NEW MASONRY OPENINGS, SALVAGE 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 U. MECHANICAL SYSTEMS - BOILERS, FURNACES,

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

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

KEYNOTE EXG EXTERIOR WALL TO REMAIN EXG INTERIOR WALL TO REMAIN __ _ _ EXG WALL/ELEMENT — — — TO BE REMOVED

TO BE REMOVED

DEMO WORK GRAPHIC KEY:

EXG DOOR & FRAME TO BE REMOVED

EXG WINDOW TO BE REMOVED EXG FLOOR OR WALL CONSTRUCTION

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

810 REPUBLIC

PUBLIC

Job No: 22042

ROOF DECKING AND REPAIR AS NEEDED.

8. OPENINGS 8.1 REMOVE NON-HISTORIC WINDOW & NON-HISTORIC FRAME RESPONSIBLE FOR THE WORK DESCRIBED IN ALL APPLICABLE NOTES

ENTIRELY, BACK TO MASONRY OPENING. 8.2 REMOVE NON-HISTORIC DOOR & FRAME ENTIRELY, BACK TO MASONRY OPENING.

8.3 NEW OR EXPANDED OPENING IN EXG HISTORIC WALL. SEE NEW 8.4 EXG HISTORIC WINDOW AND FRAME TO REMAIN IN PLACE. REPAIR

8.5 EXG HISTORIC WINDOW AND FRAME TO BE REMOVED ENTIRELY, BACK TO MASONRY OPG. ALL WINDOW COMPONENTS ARE TO BE SALVAGED FOR RE-USE AT THE WEST ELEVATION. 8.6 EXG HISTORIC DOOR, FRAME, AND TRANSOM TO REMAIN IN PLACE. REPAIR AS REQ. SEE NEW WORK PLANS & DOOR TYPES/SCHEDULE

AS REQ. SEE NEW WORK PLANS AND WINDOW DETAILS.

FOR MORE INFORMATION. 8.7 EXG HISTORIC FRAME, AND TRANSOM TO REMAIN IN PLACE. DOOR IS TO BE RELOCATED. REPAIR AS REQ. SEE NEW WORK PLANS & DOOR TYPES/SCHEDULE FOR MORE INFORMATION.

9. FINISHES

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

9.2 REMOVE NON-HISTORIC FINISH FLOORING DOWN TO WOOD SUBFLOOR.

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

6. WOOD, PLASTICS, AND COMPOSITES

NON-HISTORIC GUARDRAIL/HANDRAIL.

KEYED NOTES

I. GENERAL

3. CONCRETE

4. MASONRY

5.1 NOT USED.

5. METALS

4.1 EXG CHIMNEY TO REMAIN.

2. EXG CONDITIONS

2.1 REPAIR/RETAIN EXG FIRE ESCAPE.

6.3 REPAIR/RETAIN EXG HISTORIC MANTLE & TRIM.

7. THERMAL AND MOISTURE PROTECTION

KEYED NOTES ARE CATEGORIZED FOR ORGANIZATIONAL PURPOSES

ONLY. NOTES MAY REQUIRE MATERIALS OR WORK IN CATEGORIES

2.2 REMOVE FRAMING & SHEATHING/DECKING IN THIS AREA. SEE

2.3 EXG HISTORIC EXTERIOR ORNAMENT TO REMAIN (CORNICE,

OTHER THAN WHERE THEY OCCUR. THE CONTRACTOR IS

REGARDLESS OF THE CATEGORY IN WHICH THEY OCCUR.

ALL KEYED NOTES LISTED MAY NOT APPLY TO THIS SHEET.

STRUCTURAL DWGS & NEW WORK PLANS.

2.4 EXG SITE WALL/STRUCTURE TO BE REMOVED.

BRACKET, FRIEZE, ENTABLATURE, PILASTER, ETC).

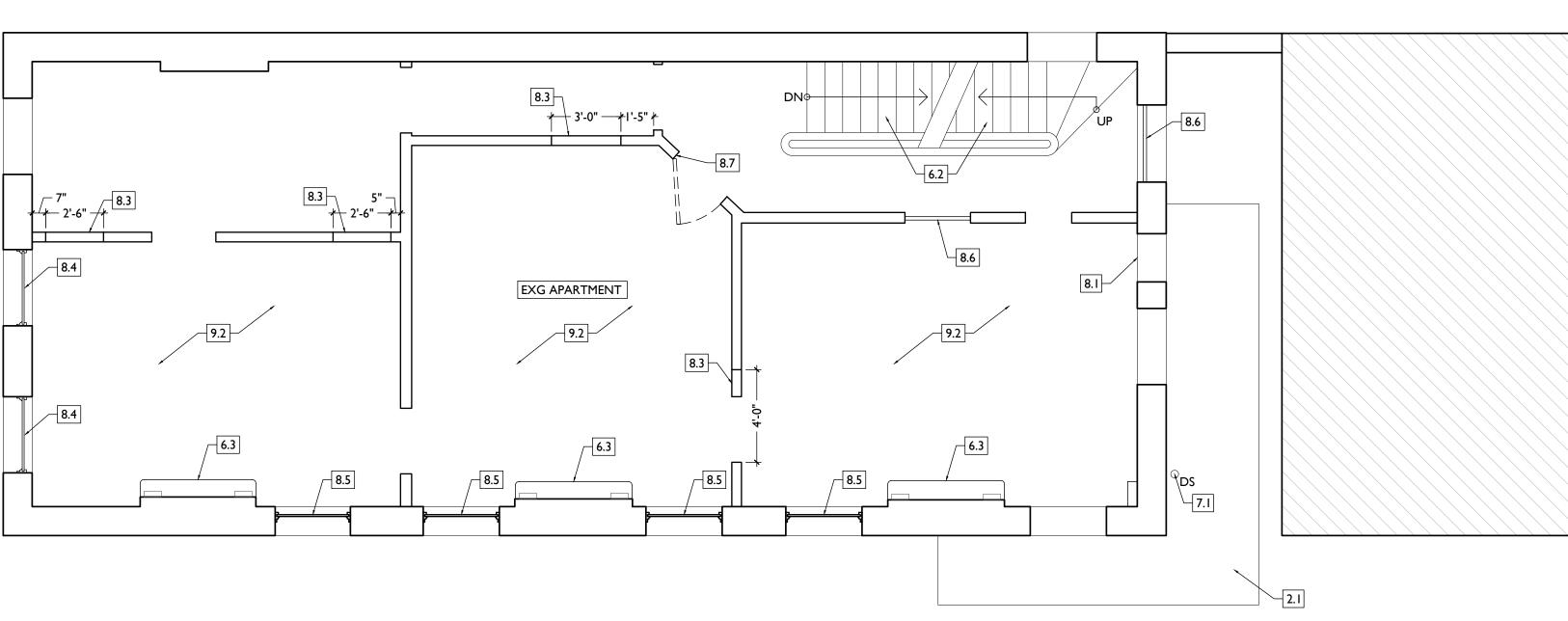
2.5 SEE CIVIL DRAWINGS FOR SIDEWALK/STREETSCAPE SCOPE.

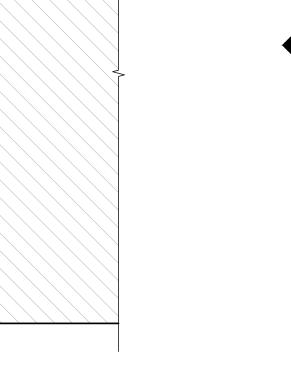
3.1 EXG CONCRETE STEPS TO BE RETAINED. REPAIR AS REQ.

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

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

6.2 EXG HISTORIC WOOD STAIR TO REMAIN IN PLACE. REMOVE









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 SITE WALL/STRUCTURE TO BE REMOVED. 2.5 SEE CIVIL DRAWINGS FOR SIDEWALK/STREETSCAPE SCOPE.

3.1 EXG CONCRETE STEPS TO BE RETAINED. REPAIR AS REQ.

4. MASONRY

3. CONCRETE

4.1 EXG CHIMNEY TO REMAIN.

5. METALS 5.1 NOT USED.

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

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- HISTORIC ELEMENTS AS REQ. 6.3 REPAIR/RETAIN EXG HISTORIC MANTLE & TRIM.

7. THERMAL AND MOISTURE PROTECTION

- 7.1 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. OPENINGS 8.1 REMOVE NON-HISTORIC WINDOW & NON-HISTORIC FRAME

- ENTIRELY, BACK TO MASONRY OPENING. 8.2 REMOVE NON-HISTORIC DOOR & FRAME ENTIRELY, BACK TO
- MASONRY OPENING. 8.3 NEW OR EXPANDED OPENING IN EXG HISTORIC WALL. SEE NEW
- 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,
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REPAIR AS REQ. SEE NEW WORK PLANS & DOOR TYPES/SCHEDULE

8.7 EXG HISTORIC FRAME, AND TRANSOM TO REMAIN IN PLACE. DOOR IS TO BE RELOCATED. REPAIR AS REQ. SEE NEW WORK PLANS & DOOR TYPES/SCHEDULE FOR MORE INFORMATION.

9. FINISHES

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

SUBFLOOR.

FOR MORE INFORMATION.

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- DURING DEMOLITION, STOP WORK AND CONTACT ARCHITECT IMMEDIATELY FOR DOCUMENTATION AND POSSIBLE SHPO/NPS
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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

BRICKS AT INTERIOR WYTHES. F. RETAIN HISTORIC EXTERIOR ORNAMENT-

I. RETAIN HISTORIC INTERIOR AND EXTERIOR

BRICK MOULD AND SHUTTER HARDWARE.

DOORS, TRANSOMS, AND SIDELITES.

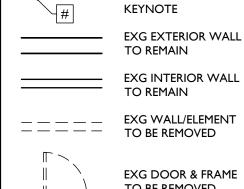
DEMO GENERAL NOTES:

- 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
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 - 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.

R. DETERIORATED WOOD SUBFLOOR: REPLACE WITH

NEW PLYWOOD SUBFLOOR, SEE PROPOSED.

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

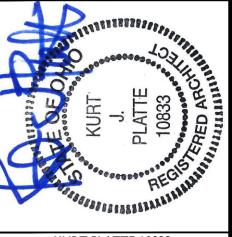


EXG DOOR & FRAME

TO BE REMOVED EXG WINDOW TO BE REMOVED

EXG FLOOR OR WALL CONSTRUCTION

TO BE REMOVED



EXP DATE 12.31.2023

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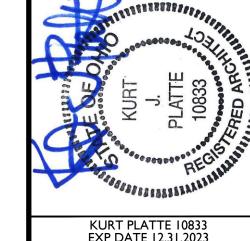
Job No: 22042

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.

HISTORIC TRIM.

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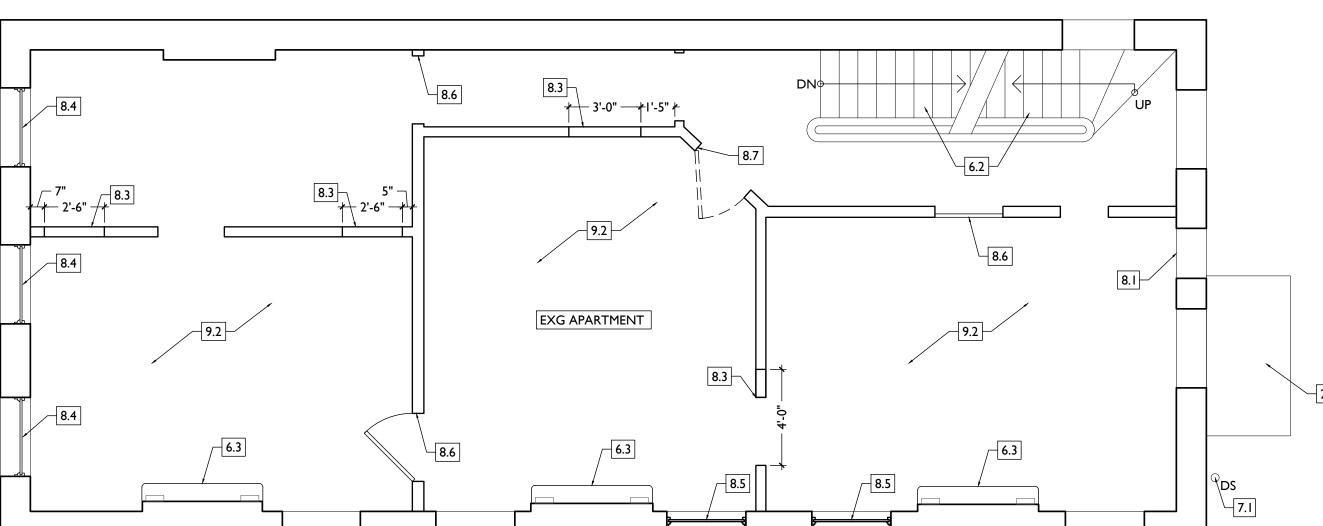
Progress Dates 2023.04.28 - BID/PERMIT

Revisions

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









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 SITE WALL/STRUCTURE TO BE REMOVED. 2.5 SEE CIVIL DRAWINGS FOR SIDEWALK/STREETSCAPE SCOPE.

3. CONCRETE 3.1 EXG CONCRETE STEPS TO BE RETAINED. REPAIR AS REQ.

4. MASONRY

4.1 EXG CHIMNEY TO REMAIN.

5. METALS 5.1 NOT USED.

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

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- 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-

DEMO GENERAL NOTES:

CORNICES, FRIEZES, BRACKETS, ETC. 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 PROPOSED, CAREFULLY REMOVE & RETAIN

Z. VEGETATION.

HISTORIC TRIM. W.PLUMBING SYSTEMS - FIXTURES, WATER HEATERS, I. RETAIN HISTORIC INTERIOR AND EXTERIOR DRAINS, PIPING, VENT STACKS, ETC. BACK TO DOORS, TRANSOMS, AND SIDELITES. 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.

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.

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

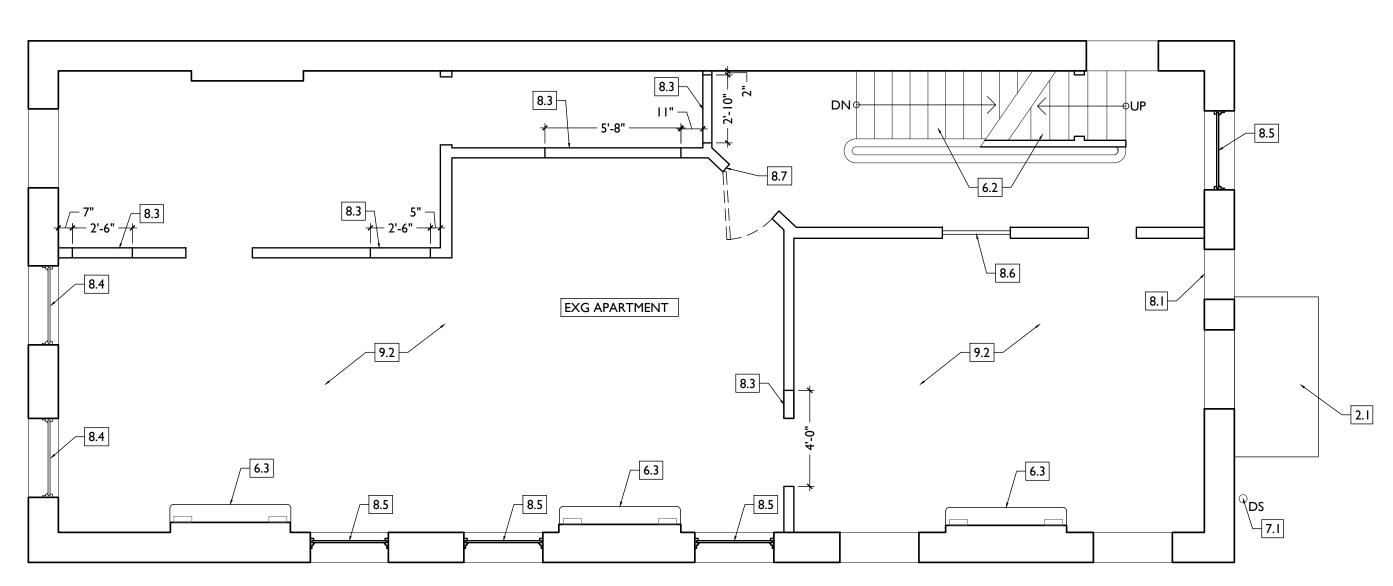
2023.04.28 - BID/PERMIT

Revisions

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

810 REPUBLIC JBLIC











KEYNOTE

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 SITE WALL/STRUCTURE TO BE REMOVED. 2.5 SEE CIVIL DRAWINGS FOR SIDEWALK/STREETSCAPE SCOPE.

3. CONCRETE 3.1 EXG CONCRETE STEPS TO BE RETAINED. REPAIR AS REQ.

4. MASONRY 4.1 EXG CHIMNEY TO REMAIN.

5. METALS

5.1 NOT USED.

- 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.
- 6.3 REPAIR/RETAIN EXG HISTORIC MANTLE & TRIM.

7. THERMAL AND MOISTURE PROTECTION

- 7.1 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. OPENINGS 8.1 REMOVE NON-HISTORIC WINDOW & NON-HISTORIC FRAME

- ENTIRELY, BACK TO MASONRY OPENING. 8.2 REMOVE NON-HISTORIC DOOR & FRAME ENTIRELY, BACK TO
- MASONRY OPENING. 8.3 NEW OR EXPANDED OPENING IN EXG HISTORIC WALL. SEE NEW
- 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. ALL WINDOW COMPONENTS ARE TO BE SALVAGED FOR RE-USE AT THE WEST ELEVATION. 8.6 EXG HISTORIC DOOR, FRAME, AND TRANSOM TO REMAIN IN PLACE. REPAIR AS REQ. SEE NEW WORK PLANS & DOOR TYPES/SCHEDULE
- 8.7 EXG HISTORIC FRAME, AND TRANSOM TO REMAIN IN PLACE. DOOR IS TO BE RELOCATED. REPAIR AS REQ. SEE NEW WORK PLANS & DOOR TYPES/SCHEDULE FOR MORE INFORMATION.

9. FINISHES

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

FOR MORE INFORMATION.

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. 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

- BRICKS AT INTERIOR WYTHES. F. RETAIN HISTORIC EXTERIOR ORNAMENT-
- CORNICES, FRIEZES, BRACKETS, ETC. S. NON-HISTORIC CABINETRY. G. RETAIN HISTORIC STOREFRONT ELEMENTS -
- 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.

Z. VEGETATION.

REMOVE THE FOLLOWING, UNLESS NOTED OTHERWISE:

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

PROPOSED, CAREFULLY REMOVE & RETAIN

I. RETAIN HISTORIC INTERIOR AND EXTERIOR

BRICK MOULD AND SHUTTER HARDWARE.

DOORS, TRANSOMS, AND SIDELITES.

HISTORIC TRIM.

- 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
- DETERIORATED PLASTER AT MASONRY WALLS. Q. ROOFING DOWN TO EXG. SUBSTRATE, U.N.O. REPLACE DAMAGED/DETERIORATED SUBSTRATE AS

INTERIOR WALLS TO REMAIN. REMOVE LOOSE OR

- R. DETERIORATED WOOD SUBFLOOR: REPLACE WITH NEW PLYWOOD SUBFLOOR, SEE PROPOSED.
- T. NON-HISTORIC WALL FINISHES, INCLUDING
- 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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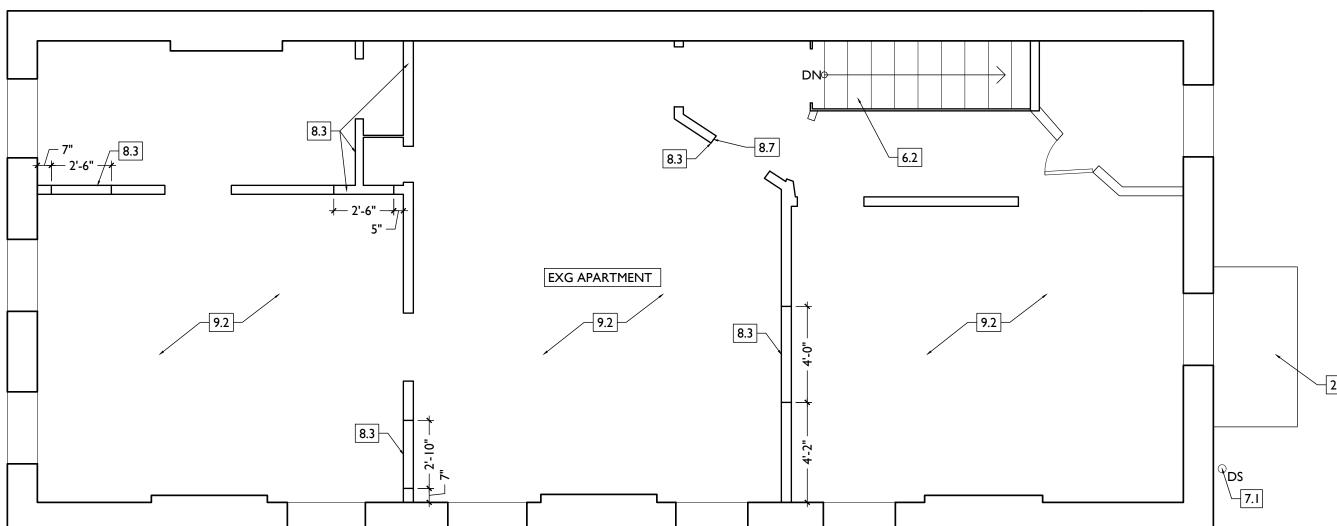
Revisions

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

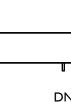
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BEING REMOVED OR WHERE NEW FURRING IS

PROPOSED, CAREFULLY REMOVE & RETAIN

I. RETAIN HISTORIC INTERIOR AND EXTERIOR

BRICK MOULD AND SHUTTER HARDWARE.

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,

UNO. RETAIN AND REPAIR PLASTER AT HISTORIC

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.

O. NON-HISTORIC STAIRS (SHOWN DASHED).

FLOOR LEVELS, INCLUDING BASEMENT & ATTIC.

DOORS, TRANSOMS, AND SIDELITES.

M. SUSPENDED ACOUSTICAL CEILINGS.

HISTORIC TRIM.

OTHERWISE:

DASHED).

KEYNOTE

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

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- 2.4 EXG SITE WALL/STRUCTURE TO BE REMOVED.
- 2.5 SEE CIVIL DRAWINGS FOR SIDEWALK/STREETSCAPE SCOPE.

3. CONCRETE 3.1 EXG CONCRETE STEPS TO BE RETAINED. REPAIR AS REQ.

4. MASONRY

4.1 EXG CHIMNEY TO REMAIN.

5. METALS 5.1 NOT USED.

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
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- 7. THERMAL AND MOISTURE PROTECTION 7.1 REMOVE NON-HISTORIC GUTTER & DOWNSPOUTS.
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- 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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- FOR MORE INFORMATION. 8.7 EXG HISTORIC FRAME, AND TRANSOM TO REMAIN IN PLACE. DOOR IS TO BE RELOCATED. REPAIR AS REQ. SEE NEW WORK PLANS & DOOR TYPES/SCHEDULE FOR MORE INFORMATION.

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- 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
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- BRICK IS NOT EXPOSED, EXCEPT WHERE NOTED IN CORRIDORS.
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ADDITIONAL INFORMATION REGARDING **ELEMENTS TO BE RETAINED:**

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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 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

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

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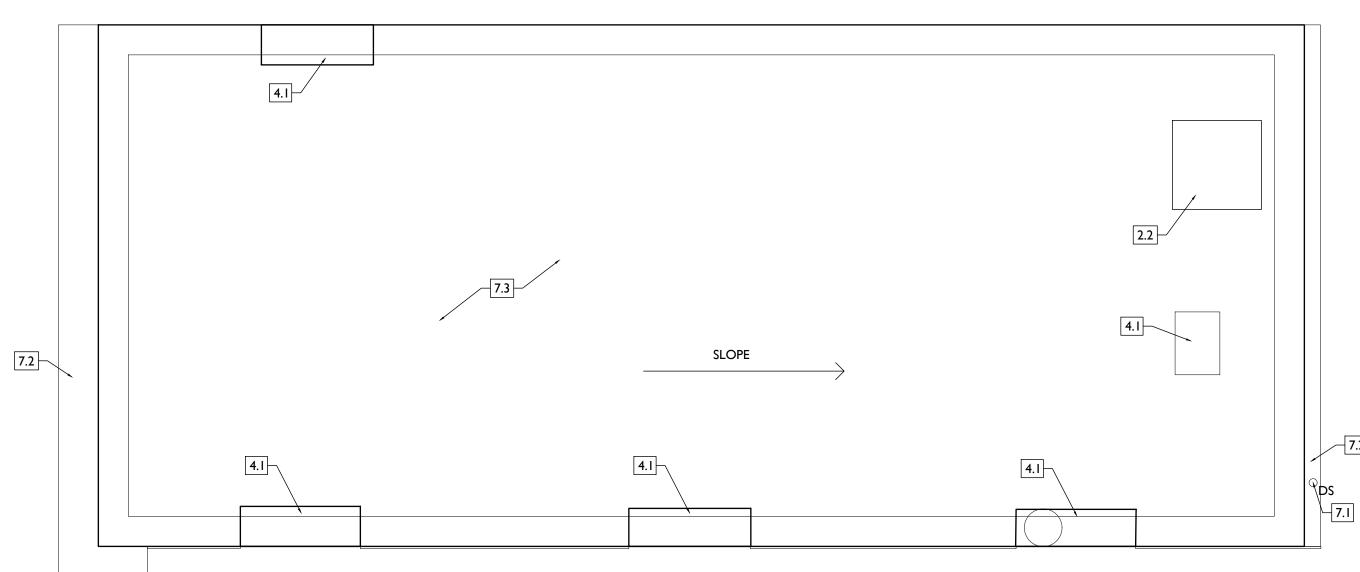
Revisions

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

810 REPUBLIC

REPUBLIC









ALL KEYED NOTES LISTED MAY NOT APPLY TO THIS SHEET.

I. GENERAL

2. EXG CONDITIONS

- 2.1 REPAIR/RETAIN EXG FIRE ESCAPE.
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- 2.3 EXG HISTORIC EXTERIOR ORNAMENT TO REMAIN (CORNICE, BRACKET, FRIEZE, ENTABLATURE, PILASTER, ETC). 2.4 EXG SITE WALL/STRUCTURE TO BE REMOVED.
- 2.5 SEE CIVIL DRAWINGS FOR SIDEWALK/STREETSCAPE SCOPE.

3. CONCRETE 3.1 EXG CONCRETE STEPS TO BE RETAINED. REPAIR AS REQ.

4. MASONRY

4.1 EXG CHIMNEY TO REMAIN.

5. METALS 5.1 NOT USED.

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

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- 6.3 REPAIR/RETAIN EXG HISTORIC MANTLE & TRIM.

7. THERMAL AND MOISTURE PROTECTION

- 7.1 REMOVE NON-HISTORIC GUTTER & DOWNSPOUTS. 7.2 REPAIR/RETAIN EXG HISTORIC CORNICE & BOX GUTTER.
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ROOF DECKING AND REPAIR AS NEEDED.

FOR MORE INFORMATION.

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- ENTIRELY, BACK TO MASONRY OPENING. 8.2 REMOVE NON-HISTORIC DOOR & FRAME ENTIRELY, BACK TO
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- 8.4 EXG HISTORIC WINDOW AND FRAME TO REMAIN IN PLACE. REPAIR AS REQ. SEE NEW WORK PLANS AND WINDOW DETAILS.

REPAIR AS REQ. SEE NEW WORK PLANS & DOOR TYPES/SCHEDULE

- 8.5 EXG HISTORIC WINDOW AND FRAME TO BE REMOVED ENTIRELY, BACK TO MASONRY OPG. ALL WINDOW COMPONENTS ARE TO BE SALVAGED FOR RE-USE AT THE WEST ELEVATION. 8.6 EXG HISTORIC DOOR, FRAME, AND TRANSOM TO REMAIN IN PLACE.
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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:
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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

BRICKS AT INTERIOR WYTHES. F. RETAIN HISTORIC EXTERIOR ORNAMENT-

MANTLES, BASEBOARDS, CROWN MOULDING,

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,

UNO. RETAIN AND REPAIR PLASTER AT HISTORIC

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.

O. NON-HISTORIC STAIRS (SHOWN DASHED).

FLOOR LEVELS, INCLUDING BASEMENT & ATTIC.

DOORS, TRANSOMS, AND SIDELITES.

M. SUSPENDED ACOUSTICAL CEILINGS.

HISTORIC TRIM.

OTHERWISE:

DASHED).

G. RETAIN HISTORIC STOREFRONT ELEMENTS -

H. RETAIN HISTORIC INTERIOR WOOD TRIM -

DEMO GENERAL NOTES:

R. DETERIORATED WOOD SUBFLOOR: REPLACE WITH NEW PLYWOOD SUBFLOOR, SEE PROPOSED. CORNICES, FRIEZES, BRACKETS, ETC.

S. NON-HISTORIC CABINETRY. 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 GUTTERS, GUTTERBOARDS.

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

EXG EXTERIOR WALL TO REMAIN

KEYNOTE

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

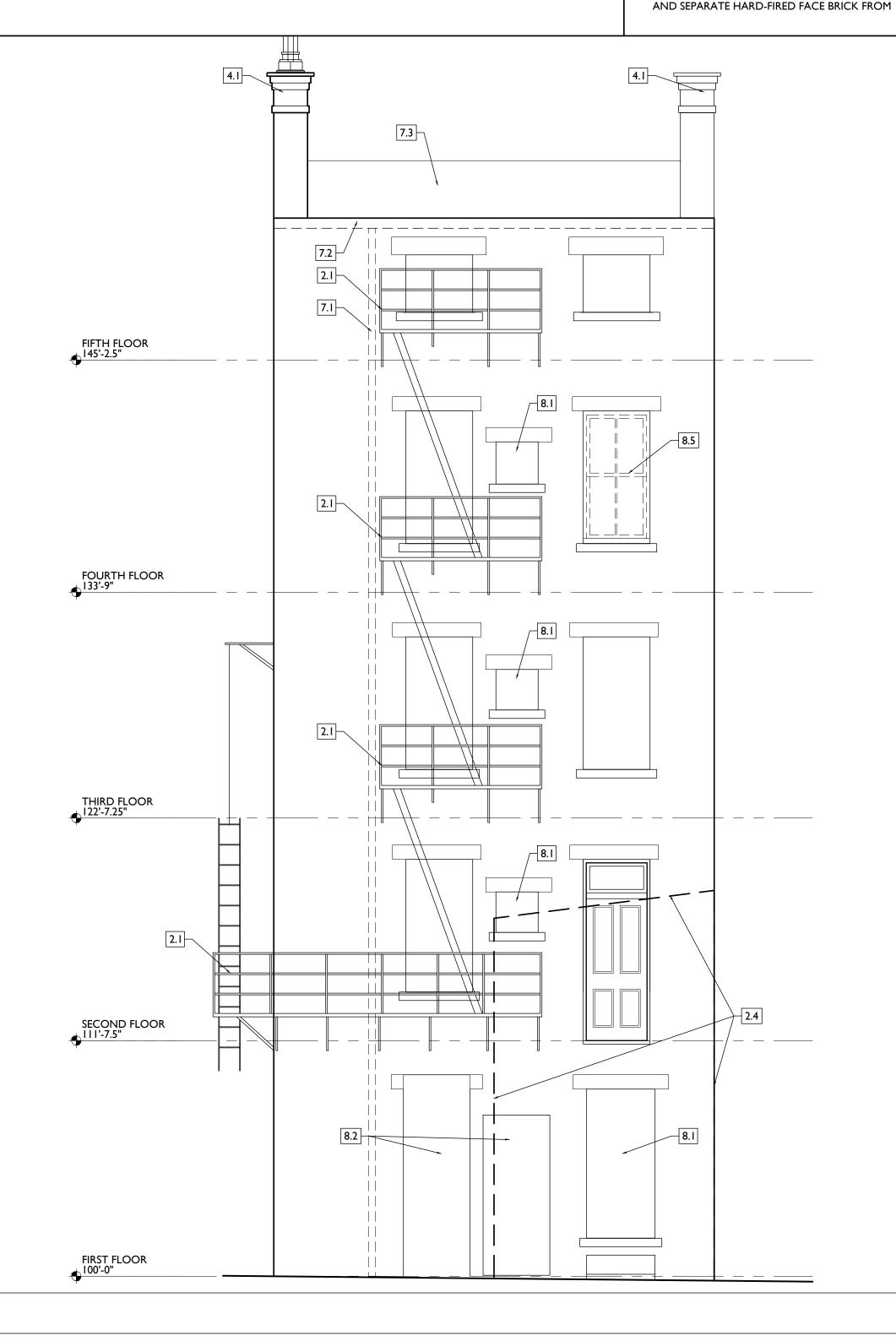
2023.04.28 - BID/PERMIT

Revisions

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

REPUBLIC 0 ∞

REPUBLIC 808



3.1

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

2.4

EXISTING + DEMOLITION ELEVATION - SOUTH

FIRST FLOOR

EXP DATE 12.31.2023 Progress Dates

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

REPUBLIC 0 REPUBLIC

808

145'-2.5"

THIRD FLOOR 122'-7.25"

SECOND FLOOR

FIRST FLOOR 100'-0"

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 SITE WALL/STRUCTURE TO BE REMOVED. 2.5 SEE CIVIL DRAWINGS FOR SIDEWALK/STREETSCAPE SCOPE.

3. CONCRETE

3.1 EXG CONCRETE STEPS TO BE RETAINED. REPAIR AS REQ.

4. MASONRY

4.1 EXG CHIMNEY TO REMAIN.

5. METALS 5.1 NOT USED.

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. 6.3 REPAIR/RETAIN EXG HISTORIC MANTLE & TRIM.

7. THERMAL AND MOISTURE PROTECTION

- 7.1 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. OPENINGS 8.1 REMOVE NON-HISTORIC WINDOW & NON-HISTORIC FRAME

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

8.6 EXG HISTORIC DOOR, FRAME, AND TRANSOM TO REMAIN IN PLACE.

REPAIR AS REQ. SEE NEW WORK PLANS & DOOR TYPES/SCHEDULE

- AS REQ. SEE NEW WORK PLANS AND WINDOW DETAILS. 8.5 EXG HISTORIC WINDOW AND FRAME TO BE REMOVED ENTIRELY, BACK TO MASONRY OPG. ALL WINDOW COMPONENTS ARE TO BE SALVAGED FOR RE-USE AT THE WEST ELEVATION.
- FOR MORE INFORMATION. 8.7 EXG HISTORIC FRAME, AND TRANSOM TO REMAIN IN PLACE. DOOR IS TO BE RELOCATED. REPAIR AS REQ. SEE NEW WORK PLANS & DOOR TYPES/SCHEDULE FOR MORE INFORMATION.

9. FINISHES

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

9.2 REMOVE NON-HISTORIC FINISH FLOORING DOWN TO WOOD SUBFLOOR.

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.

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.

ELEMENTS TO BE RETAINED:

ADDITIONAL INFORMATION REGARDING

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.

MANTLES, BASEBOARDS, CROWN MOULDING,

BEING REMOVED OR WHERE NEW FURRING IS

PROPOSED, CAREFULLY REMOVE & RETAIN

I. RETAIN HISTORIC INTERIOR AND EXTERIOR

BRICK MOULD AND SHUTTER HARDWARE.

DOORS, TRANSOMS, AND SIDELITES.

HISTORIC TRIM.

F. RETAIN HISTORIC EXTERIOR ORNAMENT-

G. RETAIN HISTORIC STOREFRONT ELEMENTS -

H. RETAIN HISTORIC INTERIOR WOOD TRIM -

CORNICES, FRIEZES, BRACKETS, ETC.

DEMO GENERAL NOTES:

R. DETERIORATED WOOD SUBFLOOR: REPLACE WITH

NEW PLYWOOD SUBFLOOR, SEE PROPOSED. S. NON-HISTORIC CABINETRY. 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.

Z. VEGETATION.

. 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.

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

KEYNOTE EXG EXTERIOR WALL

TO REMAIN **EXG INTERIOR WALL** TO REMAIN

DEMO WORK GRAPHIC KEY:

__ _ _ 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

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Revisions

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

REPUBLIC 0 ∞ REPUBLIC

808



Revisions Design Team:
CO, JK, MR, MR, RK, RO, SO, TB
Drawn by:
MR, AM REPUBL 0 **PUBLI**

EXP DATE 12.31.2023

EXISTING + DEMOLITION ELEVATION - NORTH

THIRD FLOOR 122'-7.25"

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

Progress Dates 2023.04.28 - BID/PERMIT

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 TRADE

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 ALL ITEMS.

IO. 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.

I2. 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.

N.D.

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 APPLY

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:

F "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 DRAWINGS 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

- THIS IS A HISTORIC TAX CREDIT PROJECT. WORK MUST COMPLY W/ APPROVED PART 2, INCLUDING AMENDMENTS.
- B. NO HISTORIC ELEMENTS SHALL BE REMOVED/MODIFIED UNLESS SPECIFICALLY INDICATED
- IN ARCH PLANS.

 C. REPAIR OR REPLACE EXG DAMAGED OR DETERIORATED FLOOR FRAMING &/OR WOOD
- SUBFLOOR PER STRUCT DWGS.

 D. 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.

 F. 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.
- I. PROVIDE FIRE BLOCKING PER 717.2 OBC.
 J. PROVIDE DRAFTSTOPPING IN FLOORS, CLGS/ROOFS & ATTICS PER OBC.
 K. PROVIDE BLOCKING FOR SHELVING, CABINETS AND BATHROOM ACCESSORIES AND GRAB

BARS. SEE PLANS AND INTERIOR ELEVATIONS.

- L. 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.
- SEPARATION/ JOIST & BEAM END WRAPS.

 M. 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 MARSHALL.
 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).

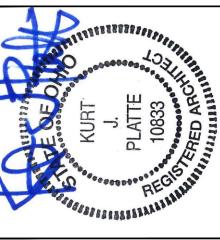
 AL. REPAIR & RESEAL AROUND EXG. CHIMNEYS, TYP. AS REQ. PROVIDE NEW ALUM CAP, TYP. AM. EXTERIOR WOOD TO BE PRESSURE TREATED.
- AN. WHERE INFILLING EXISTING OPENINGS IN, OR EXTENDING THE LENGTH OF AN EXISTING WOOD FRAMED PARTITION, FINISH FACES OF THE NEW CONSTRUCTION ARE TO ALIGN WITH ADJACENT EXISTING 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
 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
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 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.

PLATTE architecture + design



KURT PLATTE 10833 EXP DATE 12.31.2023

Progress Dates 2023.04.28 - BID/PERMIT

Revisions

MR, AM

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

BLIC / 1810 REPUBLIC

808 REPUB

Job No: 22042 04/28/2023

A1.00

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6. WOOD, PLASTICS, AND COMPOSITES REPAIR DAMAGED WOOD STAIR TREADS/RISERS AS REQ'D. NEW RAKE TRIM & GUTTERBOARD TO MATCH EXISTING - SEE

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REPAIR/RE-LINE EXG BOX GUTTER. ADJACENT WALL SURFACE. SEE EXTERIOR ELEVATIONS. TIE INTO EXISTING SEWER SYSTEM.

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- 7.3 NEW PVC AT LOWER 6' OF DOWNSPOUT. PAINT TO MATCH DOWNSPOUT. 7.4 NEW FULLY ADHERED WHITE TPO MEMBRANE ROOF W/
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- 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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 - ALIGN CONCEALMENT BETWEEN FLOORS.

PAINT TYPE FOR PANEL.

BUILDING.

26.1 ELECTRIC PANEL RECESSED IN WALL W/ 30"W X 36"D CLEAR IN

26.2 NEW EXTERIOR LIGHTING. NO EXPOSED CONDUIT ON FACE OF

FRONT. PAINT TO MATCH ADJACENT WALL W APPROPRIATE

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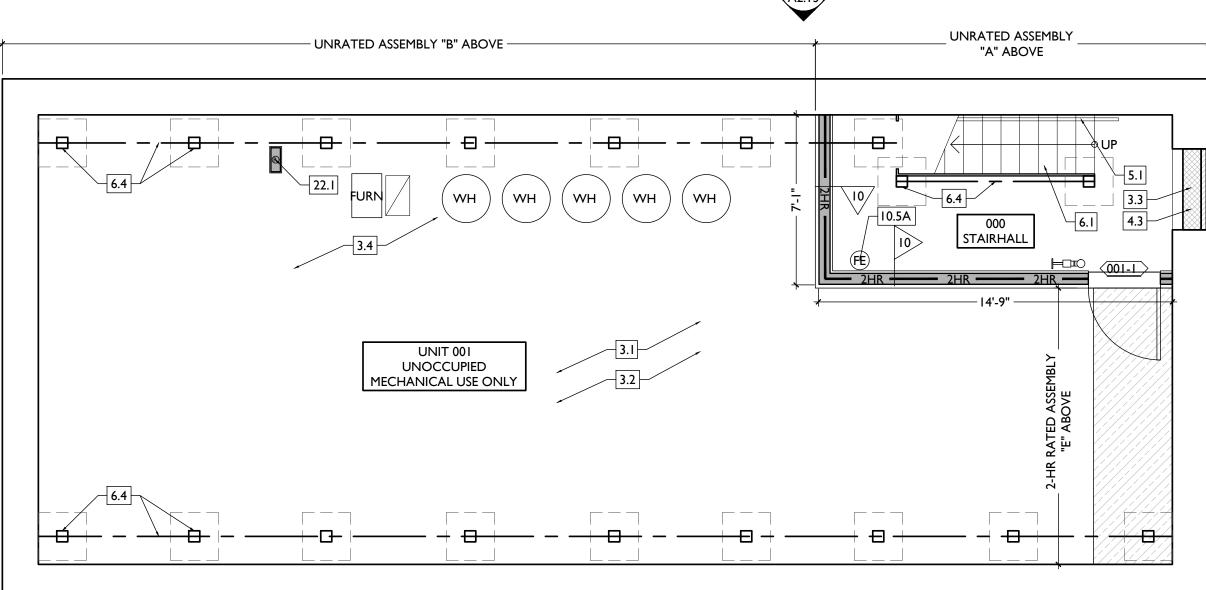
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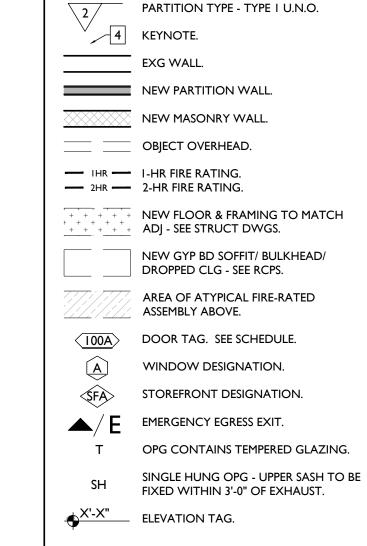
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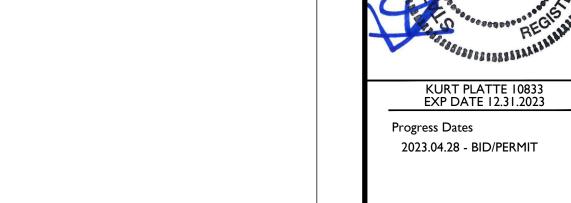
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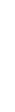






Design Team:
CO, JK, MR, MR, RK, RO, SO, TB
Drawn by:
MR, AM

REPUBLIC 0 8 **JBLIC**





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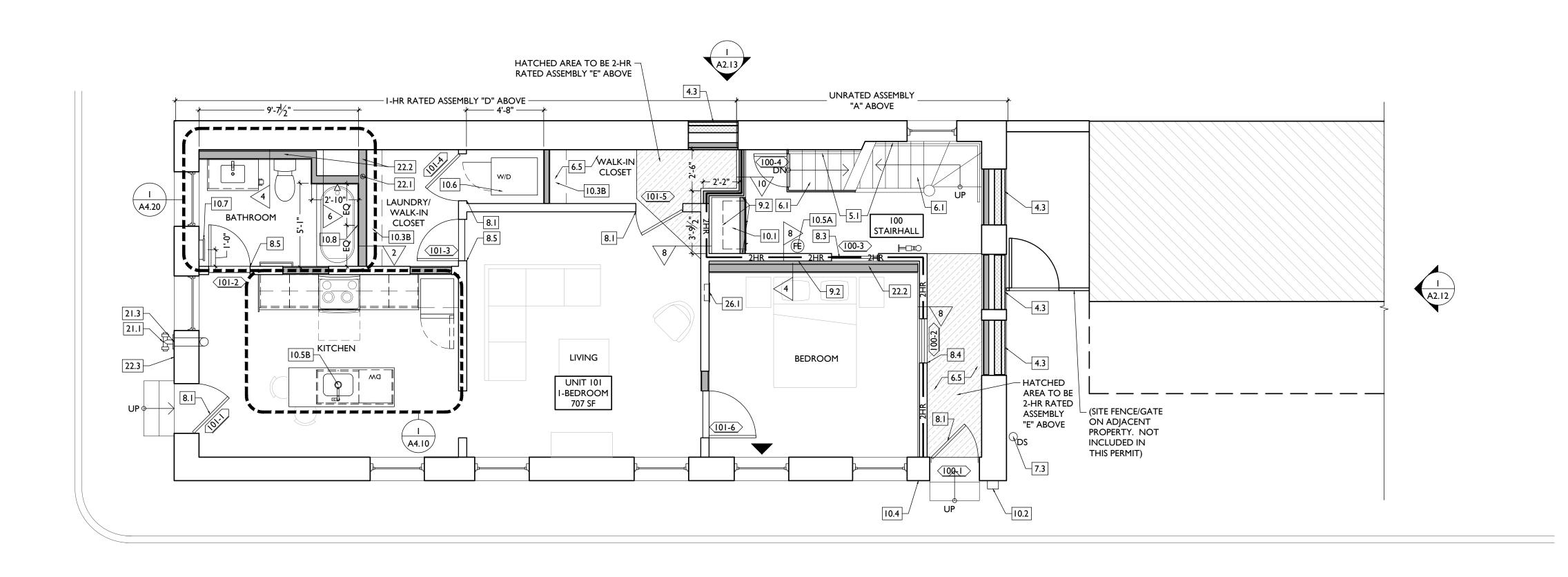
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SINGLE HUNG OPG - UPPER SASH TO BE

FIXED WITHIN 3'-0" OF EXHAUST.

X'-X" ELEVATION TAG.

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

REPUBLIC 0 ∞ **REPUBLIC**

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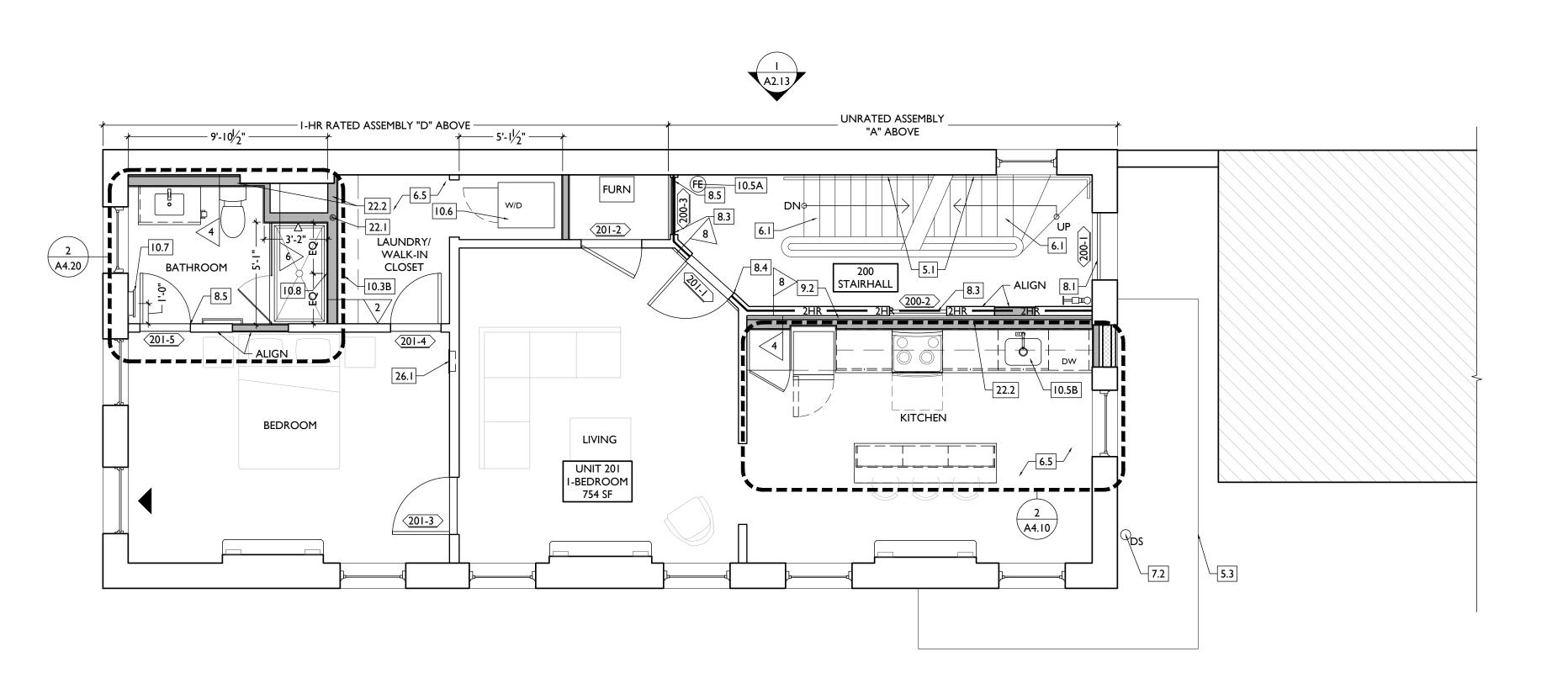
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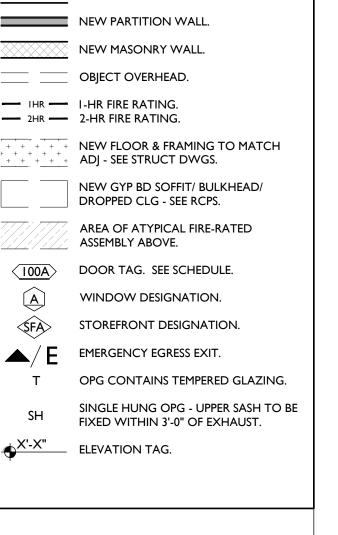
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- 21.2 SPRINKLER RISER. SEE PLUMBING DWGS. 21.3 EXTERIOR TAMPER/FLOW NOTIFICATION DEVICE - COORDINATE WITH ELECTRICAL AND FIRE PROTECTION SYSTEMS.

22. PLUMBING

22.1 PROVIDE PIPE IN WALL FRAMING FOR VAPOR MITIGATION RISER,

NEW WORK PLANS & ELEVATIONS # KEYED NOTES: NEW WORK GRAPHIC KEY: AS REQUIRED BY OWNER'S CONSULTANT. RISER TO EXTEND PARTITION TYPE - TYPE I U.N.O. FROM BASEMENT TO ATTIC. SEE CONSULTANT DESIGN FOR LOCATIONS OF RISERS. SEE NOTE 3.2. COORDINATE WITH 4 KEYNOTE. 22.2 PLUMBING CHASE (OR WALL) - VERIFY LOCATIONS IN FIELD TO ALIGN CONCEALMENT BETWEEN FLOORS. 22.3 HOSEBIB LOCATION. SEE PLUMBING DRAWINGS. 23. HEATING, VENTILATING, AND AIR CONDITIONING 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 — IHR — I-HR FIRE RATING. B. ROOF > 3:!2, INSTALL C.U. ON MECHANCIAL PLATFORM — 2HR — 2-HR FIRE RATING. CONDENSING UNIT(S) ON MECHANICAL PLATFORM. SOUND ISOLATE MECHANICAL PLATFORM. 23.2 NEW EXHAUST/INTAKE LOUVERS ON EXTERIOR WALL. LOUVERS TO BE PAINTED TO MATCH ADJACENT BRICK. SEE ELEVATIONS AND MECHANICAL DWGS. 26. ELECTRICAL 26.1 ELECTRIC PANEL RECESSED IN WALL W/ 30"W X 36"D CLEAR IN FRONT. PAINT TO MATCH ADJACENT WALL W APPROPRIATE ASSEMBLY ABOVE. PAINT TYPE FOR PANEL. 26.2 NEW EXTERIOR LIGHTING. NO EXPOSED CONDUIT ON FACE OF BUILDING.





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

REPUBLIC 0 ∞ **REPUBLIC**



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- 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
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5.3 REPAIR/RETAIN EXG FIRE ESCAPE. PAINT BLACK.

6. WOOD, PLASTICS, AND COMPOSITES

- REPAIR DAMAGED WOOD STAIR TREADS/RISERS AS REQ'D. NEW RAKE TRIM & GUTTERBOARD TO MATCH EXISTING - SEE
- ELEVATIONS. 6.3 REPAIR/RETAIN EXG CORNICE. REPAINT.
- 6.4 NEW WOOD STRUCTURAL MEMBERS. SEE STRUCTURAL DWGS. 9.3 NEW HARDWOOD FLOORING. 6.5 NEW FRAMING/SHEATHING/DECKING IN THIS AREA. SEE

STRUCTURAL DRAWINGS. 7. THERMAL AND MOISTURE PROTECTION

- REPAIR/RE-LINE EXG BOX GUTTER. ADJACENT WALL SURFACE. SEE EXTERIOR ELEVATIONS. TIE INTO EXISTING SEWER SYSTEM.
- 7.3 NEW PVC AT LOWER 6' OF DOWNSPOUT. PAINT TO MATCH DOWNSPOUT. 7.4 NEW FULLY ADHERED WHITE TPO MEMBRANE ROOF W/
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 - 10.3 CLOSETS W/ BLOCKING AT RODS & BRACKETS. PROVIDE 12" 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. DETAILS. INSULATION PER SCHEDULE. B.O.D - 60 MIL WHITE TPO. 10.5 FIRE EXTINGUISHER. COORDINATE FINAL LOCATION WITH LOCAL FIRE MARSHAL.
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INSTALL PER MANUF'S INSTRUCTS. COORDINATE WITH FIRE DEPT.

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- 21.1 APPROX LOCATION OF FDC CONNECTION COORDINATE W/ FIRE DEPT.
- 21.2 SPRINKLER RISER. SEE PLUMBING DWGS. 21.3 EXTERIOR TAMPER/FLOW NOTIFICATION DEVICE - COORDINATE WITH ELECTRICAL AND FIRE PROTECTION SYSTEMS.

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22.1 PROVIDE PIPE IN WALL FRAMING FOR VAPOR MITIGATION RISER.

HEATER. SEE PLUMBING DWGS.

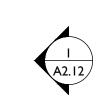
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7.2

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

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. <\$FA> 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.

- I-HR RATED ASSEMBLY "D" ABOVE -"A" ABOVE 5'-1/2" - 9'-10<mark>/</mark>2" -A4.20 BEDROOM I-BEDROOM 754 SF A4.10











PROPOSED PLAN - THIRD FLOOR

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

REPUBLIC 0 ∞ **REPUBLIC**

Job No: 22042 04/28/2023

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6. WOOD, PLASTICS, AND COMPOSITES

STRUCTURAL DRAWINGS.

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6.5 NEW FRAMING/SHEATHING/DECKING IN THIS AREA. SEE

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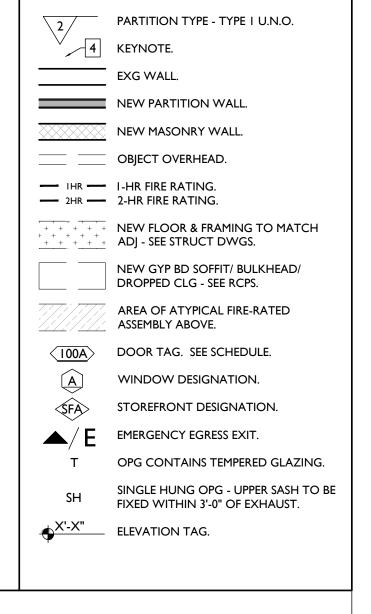
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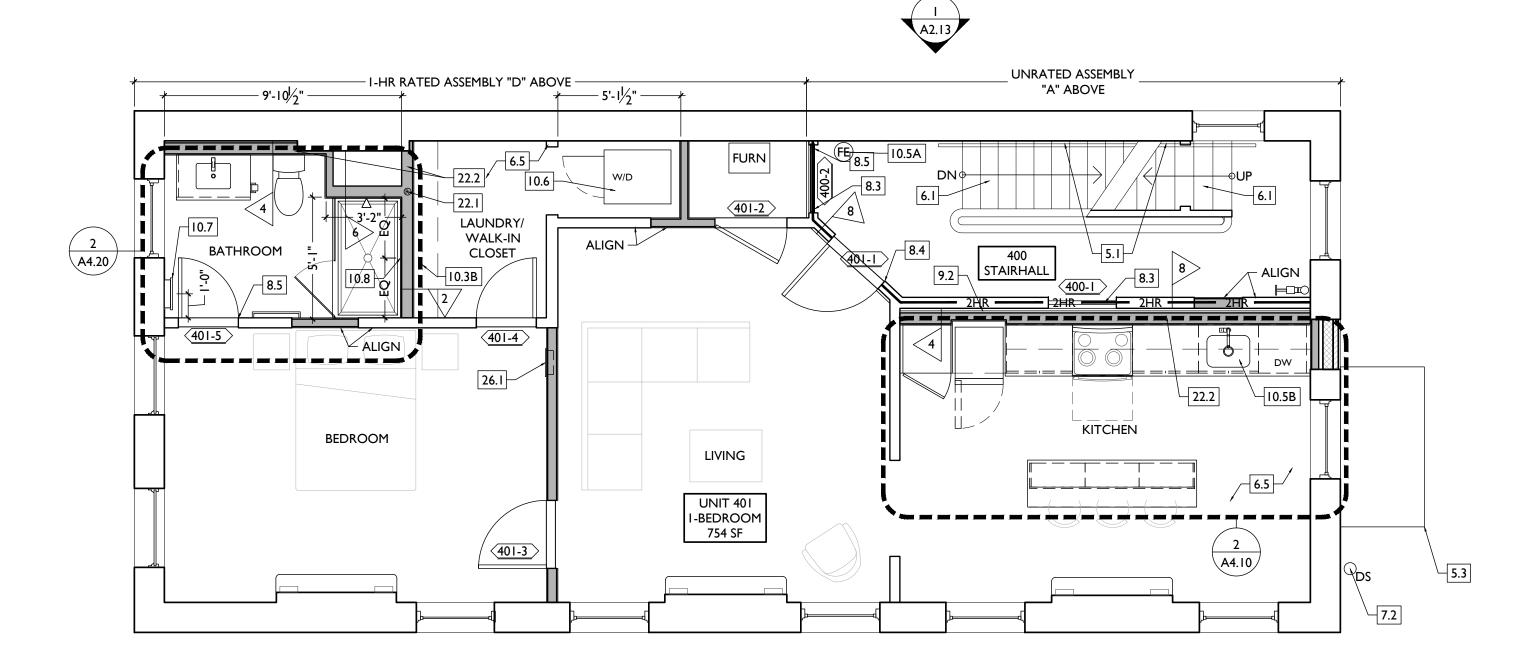
26. ELECTRICAL

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26.2 NEW EXTERIOR LIGHTING. NO EXPOSED CONDUIT ON FACE OF BUILDING.



NEW WORK GRAPHIC KEY:









PROPOSED PLAN - FOURTH FLOOR

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

REPUBLIC <u>0</u> **UBLIC**

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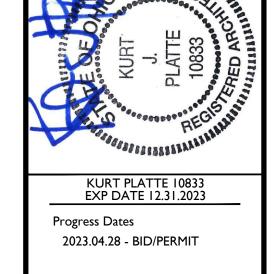
4 KEYNOTE. NEW PARTITION WALL. NEW MASONRY WALL. OBJECT OVERHEAD. — IHR — I-HR FIRE RATING. — 2HR — 2-HR FIRE RATING. NEW FLOOR & FRAMING TO MATCH ADJ - SEE STRUCT DWGS. NEW GYP BD SOFFIT/ BULKHEAD/ DROPPED CLG - SEE RCPS. AREA OF ATYPICAL FIRE-RATED ASSEMBLY ABOVE. 100A DOOR TAG. SEE SCHEDULE. WINDOW DESIGNATION. <\$FA> 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.

UNRATED ASSEMBLY "A" ABOVE - I-HR RATED ASSEMBLY "D" ABOVE -LAUNDRY/ WALK-IN CLOSET 3 A4.20 STAIRHALL - ALIGN — BEDROOM UNIT 501 I-BEDROOM 6.5 LIVING 768 SF $\mathcal{P}{\mathsf{DS}}$





Revisions

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

REPUBLIC 0 ∞

REPUBLIC 808

Job No: 22042 04/28/2023



7.2

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 NOTE 22.1. 3.3 EXG OPENING TO BASEMENT TO BE CAPPED WITH CONCRETE AT GRADE. WALL TO BE INFILLED W/ CMU AND BRICK - SEE DETAILS AND KEYNOTE 4.3. IF IN PUBLIC R.O.W. COMPLY W/
- LOCAL JURISDICTION STANDARDS. 3.4 FLOOR IN THIS AREA IS UNSTABLE. SEE STRUCTURAL DWGS.

- 4.1 TUCKPOINT BRICK AS SHOWN ON STRUCTURAL ELEVATIONS & 8.1 EXG HISTORIC DOOR AND FRAME/TRANSOM TO REMAIN. SEE PER SHPO NARRATIVE. SEE STRUCTURAL DWGS. 4.2 REPLACE DAMAGED/MISSING BRICK AS SHOWN ON STRUCTURAL 8.2 NEW EXTERIOR BUILDING ENTRY DOOR AND FRAME - SEE DOOR 10.9 RECESSED KEY LOCK BOX - BASIS OF DESIGN KNOXBOX 3200. ELEVATIONS & PER SHPO NARRATIVE.
- 4.3 OPENING TO BE INFILLED WITH CMU AT INTERIOR AND BRICK 8.3 AT EXTERIOR. BRICK IS TO MATCH EXG ADJACENT HISTORIC BRICK IN SIZZE, TEXTURE, AND APPEARANCE. FACE OF BRICK IN OPG IS TO BE SET BACK I" FROM FACE OF EXG WALL. SEE
- 5.2 NEW STEEL PIPE GUARDRAIL. SEE DETAILS.
- 5.1 NEW CONTINUOUS STEEL PIPE HANDRAIL. SEE DETAILS.

5.3 REPAIR/RETAIN EXG FIRE ESCAPE. PAINT BLACK.

6. WOOD, PLASTICS, AND COMPOSITES

- REPAIR DAMAGED WOOD STAIR TREADS/RISERS AS REQ'D. 6.2 NEW RAKE TRIM & GUTTERBOARD TO MATCH EXISTING - SEE
- ELEVATIONS. 6.3 REPAIR/RETAIN EXG CORNICE. REPAINT. 6.4 NEW WOOD STRUCTURAL MEMBERS. SEE STRUCTURAL DWGS. 9.3 NEW HARDWOOD FLOORING.
- 6.5 NEW FRAMING/SHEATHING/DECKING IN THIS AREA. SEE

STRUCTURAL DRAWINGS. 7. THERMAL AND MOISTURE PROTECTION

- REPAIR/RE-LINE EXG BOX GUTTER. ADJACENT WALL SURFACE. SEE EXTERIOR ELEVATIONS. TIE INTO EXISTING SEWER SYSTEM.
- 7.3 NEW PVC AT LOWER 6' OF DOWNSPOUT. PAINT TO MATCH DOWNSPOUT. 7.4 NEW FULLY ADHERED WHITE TPO MEMBRANE ROOF W/
- CRICKETS WHERE REQUIRED FOR POSITIVE DRAINAGE AND W/ TERMINATION BARS & METAL COUNTERFLASHING - SEE ROOF 10.4 PROVIDE "NO SMOKING" SIGN AT EXTERIOR WALL. FULLY ADHERED ROOF SYSTEM, 20 YEAR WARRANTY, BY CARLISLE SYNTEC, CARLISLE, PA, OR EQUIVALENT.
- 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.

- DOOR TYPES AND SCHEDULE. SCHEDULE.
- EXISTING HISTORIC DOOR TO REMAIN AND BE FIXED IN PLACE. FIRE RATING TO BE CONTINUOUS BEHIND DOOR. SEE DOOR SCHEDULE AND DETAILS.
- 8.4 NEW DOOR IN EXISTING HISTORIC FRAME/TRANSOM. FIRE RATING TO REMAIN CONTINUOUS BEHIND TRANSOM. SEE DOOR SCHEDULE AND DETAILS.
- 8.5 RELOCATED HISTORIC DOOR/OPG. SEE DOOR SCHEDULE. 8.6 RELOCATED HISTORIC WINDOW SEE WINDOW TYPES AND DETAILS.

- 9. FINISHES 9.1 EXG PLASTER AT MASONRY WALL TO BE PATCHED AND
- REPAIRED, WHERE POSSIBLE. FIRE-RATING TO BE CONTINUOUS BEHIND PLUMBING/CHASE/ FURRING WALL. FIRE RATING TO BE CONTINUOUS AT
- INTERSECTION W/ NON-RATED WALL.

10. SPECIALTIES

- 10.1 LOCKABLE & RECESSED MAILBOXES. BOXES TO MEET USPS-4C STANDARDS & ACCESSIBILITY REQUIREMENTS. PROVIDE CONT FIRE-RATING BEHIND MAILBOXES, WHEN REQ.
- NEW ROUND ALUMINUM DOWNSPOUT PAINTED TO MATCH 10.2 SURFACE MOUNTED ENTRY SECURITY SYSTEM CALL BOX BY SECURITY CONTRACTOR. 10.3 CLOSETS W/ BLOCKING AT RODS & BRACKETS. PROVIDE 12"
 - 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.
- DETAILS. INSULATION PER SCHEDULE. B.O.D 60 MIL WHITE TPO. I 0.5 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 HEATER. SEE PLUMBING DWGS. 10.7 NEW RECESSED OR SURFACE-MOUNTED MEDICINE CABINET. SEE 26.3 NEW MAST HEAD. SEE ELECTRICAL DWGS.
 - 10.8 SHOWER NICHE. SEE ENLARGED PLANS, INTERIOR ELEVATIONS AND DETAIL I/A5.00. INSTALL PER MANUF'S INSTRUCTS. COORDINATE WITH FIRE DEPT.

ENLARGED PLANS, INTERIOR ELEVATIONS AND FINISH SCHEDULE.

21. FIRE SUPPRESSION

- 21.1 APPROX LOCATION OF FDC CONNECTION COORDINATE W/ FIRE DEPT.
- 21.2 SPRINKLER RISER. SEE PLUMBING DWGS. 21.3 EXTERIOR TAMPER/FLOW NOTIFICATION DEVICE - COORDINATE WITH ELECTRICAL AND FIRE PROTECTION SYSTEMS.

22. PLUMBING

22.1 PROVIDE PIPE IN WALL FRAMING FOR VAPOR MITIGATION RISER.

NEW WORK PLANS & ELEVATIONS # KEYED NOTES:

- 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. 23. HEATING, VENTILATING, AND AIR CONDITIONING

- 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 B. ROOF > 3:!2, INSTALL C.U. ON MECHANCIAL PLATFORM
- ISOLATE MECHANICAL PLATFORM. 23.2 NEW EXHAUST/INTAKE LOUVERS ON EXTERIOR WALL. LOUVERS TO BE PAINTED TO MATCH ADJACENT BRICK. SEE ELEVATIONS AND MECHANICAL DWGS.

26. ELECTRICAL

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

CONDENSING UNIT(S) ON MECHANICAL PLATFORM. SOUND

PAINT TYPE FOR PANEL. 26.2 NEW EXTERIOR LIGHTING. NO EXPOSED CONDUIT ON FACE OF BUILDING.

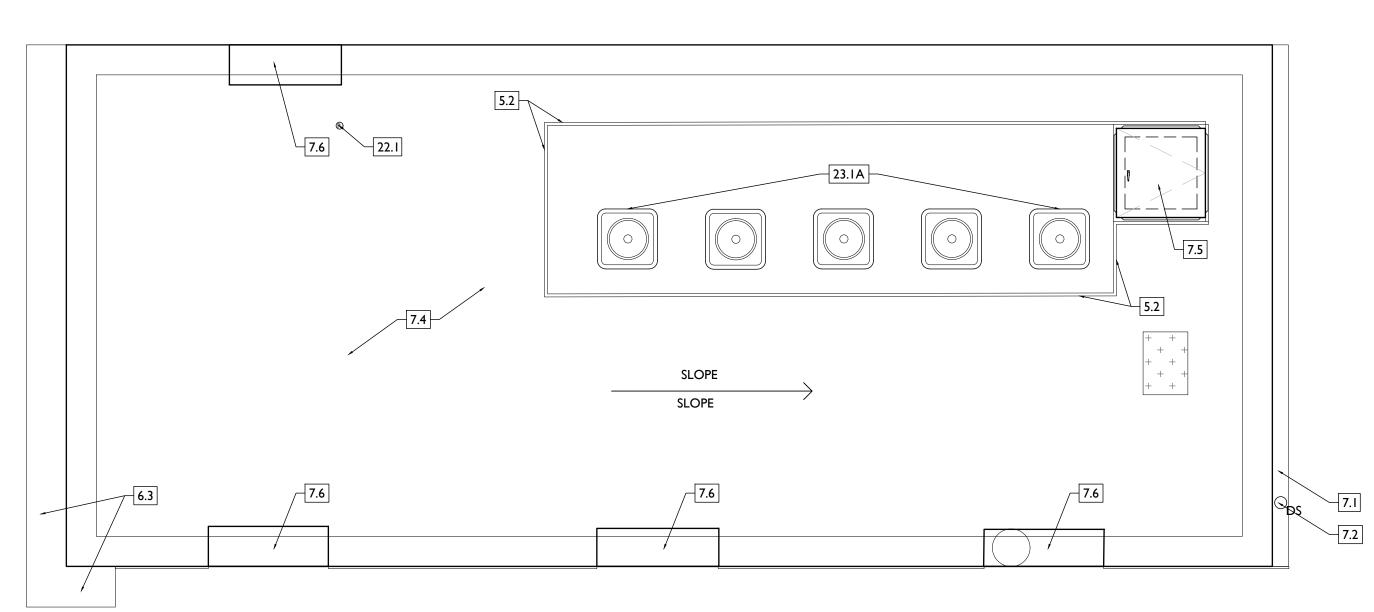
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NEW WORK GRAPHIC KEY:

4 KEYNOTE.

PARTITION TYPE - TYPE I U.N.O.









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EXP DATE 12.31.2023

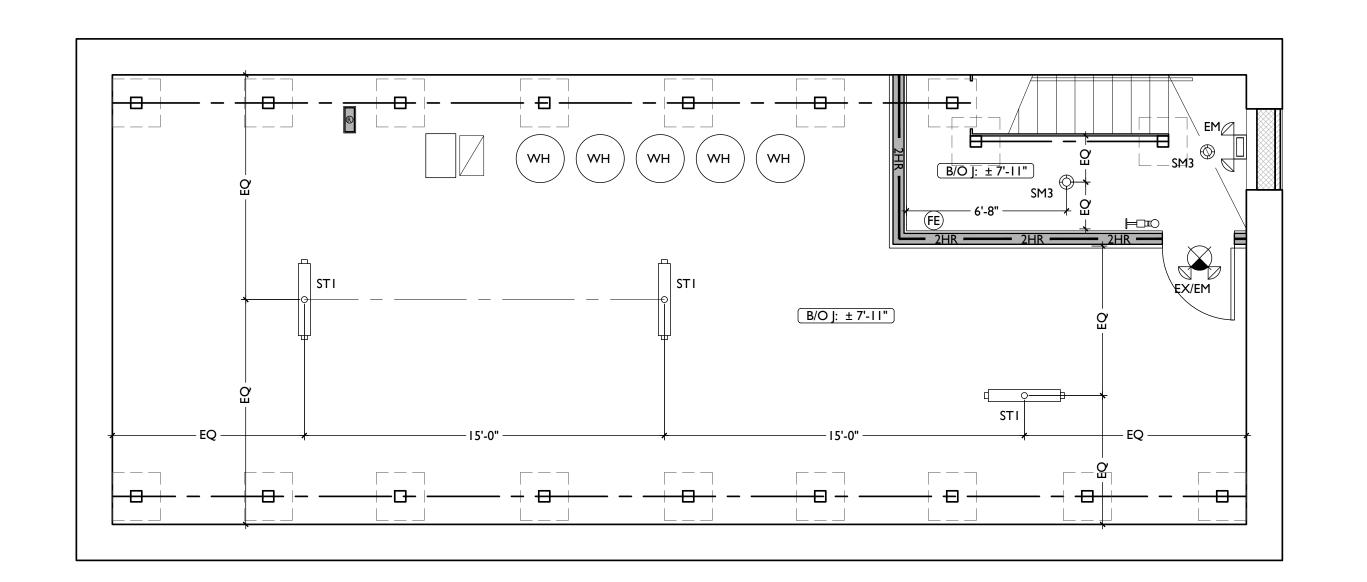
Design Team:
CO, JK, MR, MR, RK, RO, SO, TB
Drawn by:
MR, AM

2023.04.28 - BID/PERMIT

Progress Dates

REPUBLIC

			REFLECTED CEILING F	PLAN FIXTURE LEGEND:				REFLECTED CEILING PLAN GENERAL NOTES:	F	REFLECTED CEILING PLAN GRAPHIC KEY:
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SMI SURFACE MOUNT LED CAN LIGHT SM2 - DA	ENERAL LIGHTS. PROVIDE DIMMERS IN RESIDENTIAL AMP RATED, TYPICAL IN SHOWERS.		CEILING FAN WITH LIGHT SMALL FAN,	TYPICAL IN BEDROOMS AND LIVING ROOMS	RHI	EGRESS LIGHT	TE 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 IN ARCH DWGS. B. IF A FIXTURE APPEARS TO BE CENTERED IN A SPACE, THEN CENTER IT.	CH: 8'-0"	CEILING HEIGHT TAG (TYP 8'-0" U.N.O.) SOFFIT/LOWERED GYP BD CEILING
SURFACE MOUNT STAIR H	LWAYS ON , TYPICAL IN COMMON STAIRHALLS				EM	EMERGENCY EGRESS LIGHT EMERGEN	CY 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 DRYWALL U.N.O. SEE FINISH SCHEDULE FOR PAINT COLORS. F. BASEMENTS & UNOCCUPIED ATTICS TO HAVE EXPOSED JOISTS - NO FINISH		AREA OF ATYPICAL FIRE-RATING. SEE PLANS & SHEET A0.01
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SM8 LINEAR LED TYPICAL	EIN COTH LENCIAL FORWALL STACES							CABINETS IN RESIDENTAL UNITS. SEE ELEC DWGS. I. SEE EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTS. J. SEE ELECTRICAL DRAWINGS FOR FIXTURE SPECIFICATIONS.	(OS)	DENOTES OCCUPANCY SENSOR
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□ VANITY LIGHT RESIDEN	PICAL ON SIDES OF BATHROOM VANITIES IN TYPICAL SITIAL UNITS. BLE, TYPICAL IN COMMERCIAL TURNKEY SPACES AND IN	ES E	EMERGENCY EGRESS LIGHT EMERGENCY	EGRESS EXIT SIGN						STRUCTURAL MEMBER - SEE STRUCTURAL DWGS
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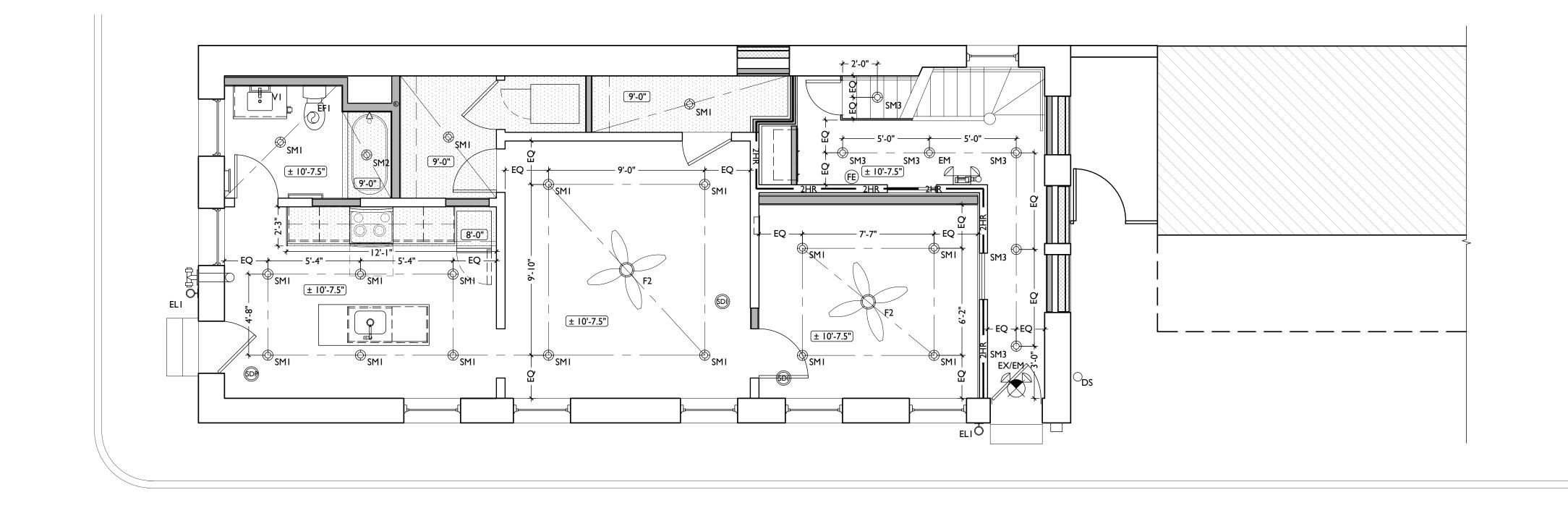


KURT PLATTE 10833 EXP DATE 12.31.2023 Progress Dates 2023.04.28 - BID/PERMIT

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

1810 REPUBLIC REPUBLIC

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© 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
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			53	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.	WC O	WATER CURTAIN HEAD TO PROVIDE 100% COVERAGE OF WINDOW- COORD W/ F.P PLANS
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• • • • • • • • • • • • • • • • • • • •	NA/ALL NAOLINIT	NA TYPICAL OVER BATHER ON VANHTIES IN TYPICAL							PLACEMENT/DIMENSIONS BY A FEW INCHES AS REQUIRED TO ACCOMMODATE THIS.	(SDP)	PHOTOELECTRIC
VI		VI - TYPICAL OVER BATHROOM VANITIES IN TYPICAL RESIDENTIAL UNITS.	⊕ WM5	WALL MOUNT EXTERIOR LIGHT	EXTERIOR ARCHITECTURAL GOOSENECK LIGHT				ACCOMPODATE THIS.		CENTER ON ARCHITECTURAL FEATURE
V2 □		V2 - TYPICAL ON SIDES OF BATHROOM VANITIES IN TYPICAL RESIDENTIAL UNITS.		Extrament areas							STRUCTURAL MEMBER - SEE STRUCTURAL DWGS
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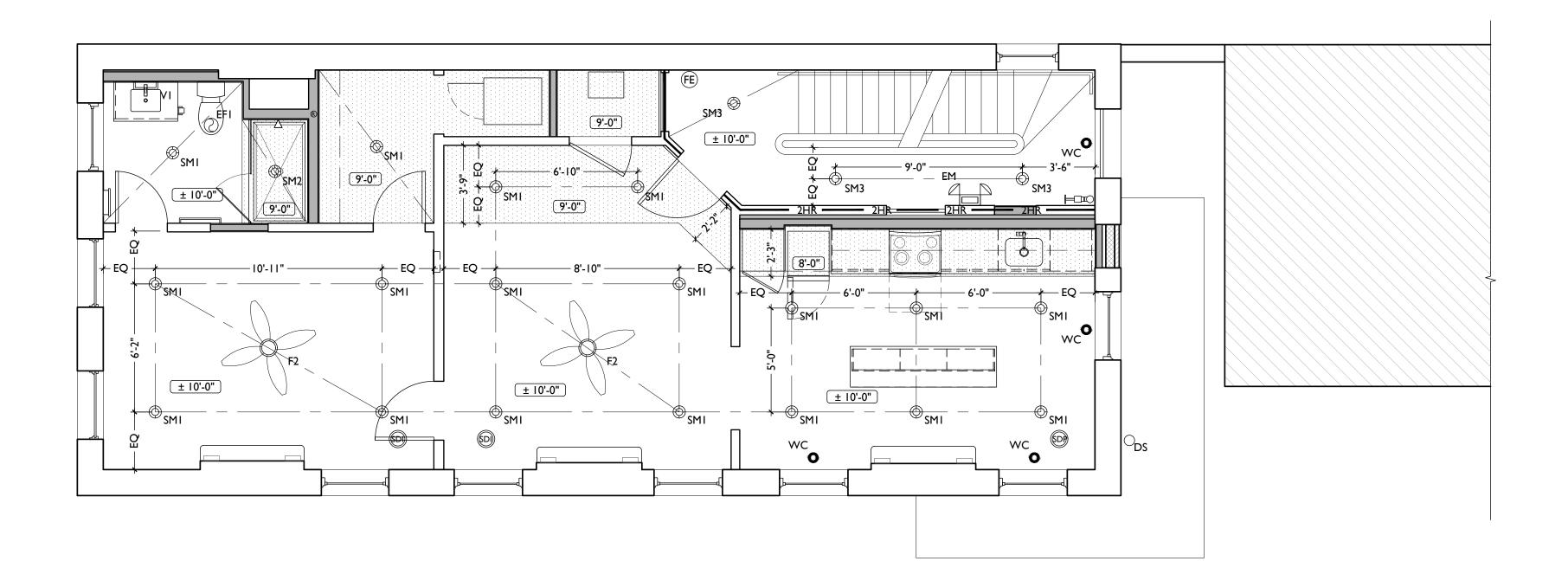


KURT PLATTE 10833 EXP DATE 12.31.2023 Progress Dates 2023.04.28 - BID/PERMIT

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1810 REPUBLIC REPUBLIC

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			S _{EFI}	BATHROOM VENT	TYPICAL BATHROOM EXHAUST FAN/VENT						
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LATTE chitecture + design

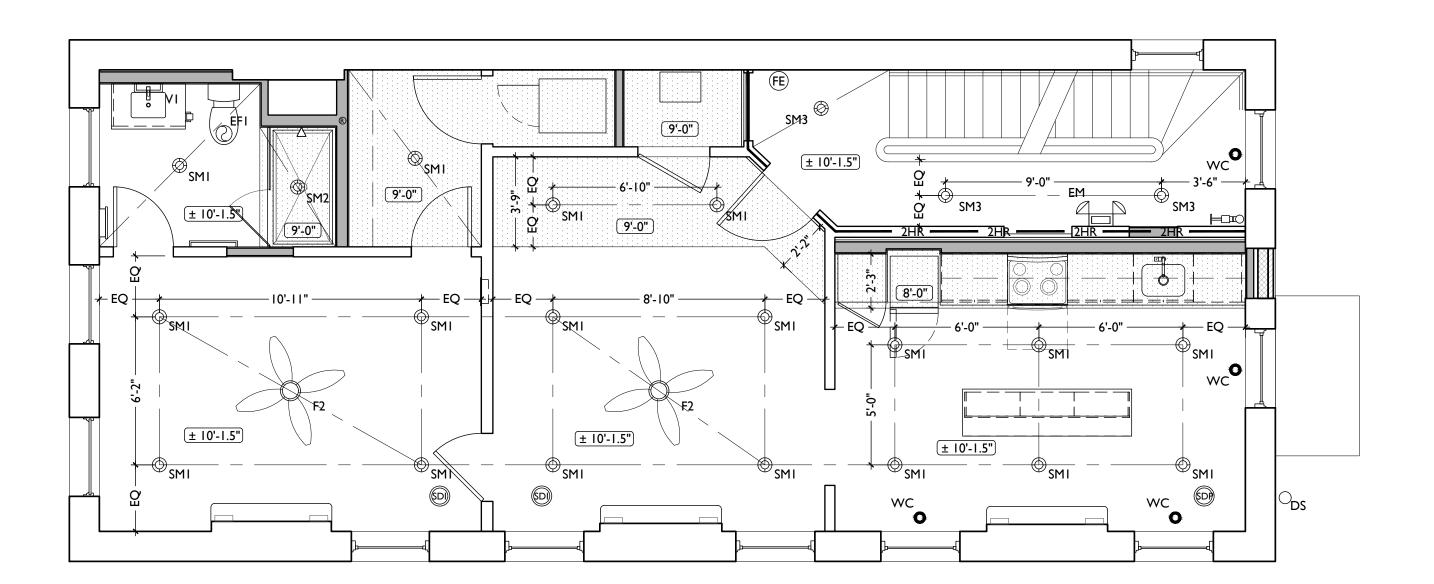
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© smi	0.1554.05.401.15.15	SMI - GENERAL LIGHTS. PROVIDE DIMMERS IN RESIDENTIAL UNITS.					EMERGENCY EGRESS LIGHT	LED REMOTE HEAD EMERGENCY EGRESS LIGHT	COMPLY W/ APPROVED. PART 2, INCLUDING AMENDMENTS. NO HISTORIC ELEMENTS SHALL BE REMOVED/MODIFIED UNLESS SPECIFICALLY INDICATED	(CH: 8'-0")	
© 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					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 &
SM13	SURFACE MOUNT ENTRY LIGHT	STAIR HALL ENTRY VESTIBULE, IST FLOOR ONLY				EM			DRYWALL U.N.O. SEE FINISH SCHEDULE FOR PAINT COLORS. F. BASEMENTS & UNOCCUPIED ATTICS TO HAVE EXPOSED JOISTS - NO FINISH	<u> </u>	SHEET A0.01
SM8	SURFACE MOUNT LINEAR LED	TYPICAL IN COMMERCIAL TURNKEY SPACES	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. 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.	WC∙ (NL) (OS)	WATER CURTAIN HEAD TO PROVIDE 100% COVERAGE OF WINDOW- COORD W/ F.P PLANS 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.	_ 0	CENTER ON ARCHITECTURAL FEATURE
V2 □		V2 - TYPICAL ON SIDES OF BATHROOM VANITIES IN TYPICAL RESIDENTIAL UNITS.									STRUCTURAL MEMBER - SEE STRUCTURAL DWGS
TLI	SURFACE MOUNT	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						
	1										





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

Revisions

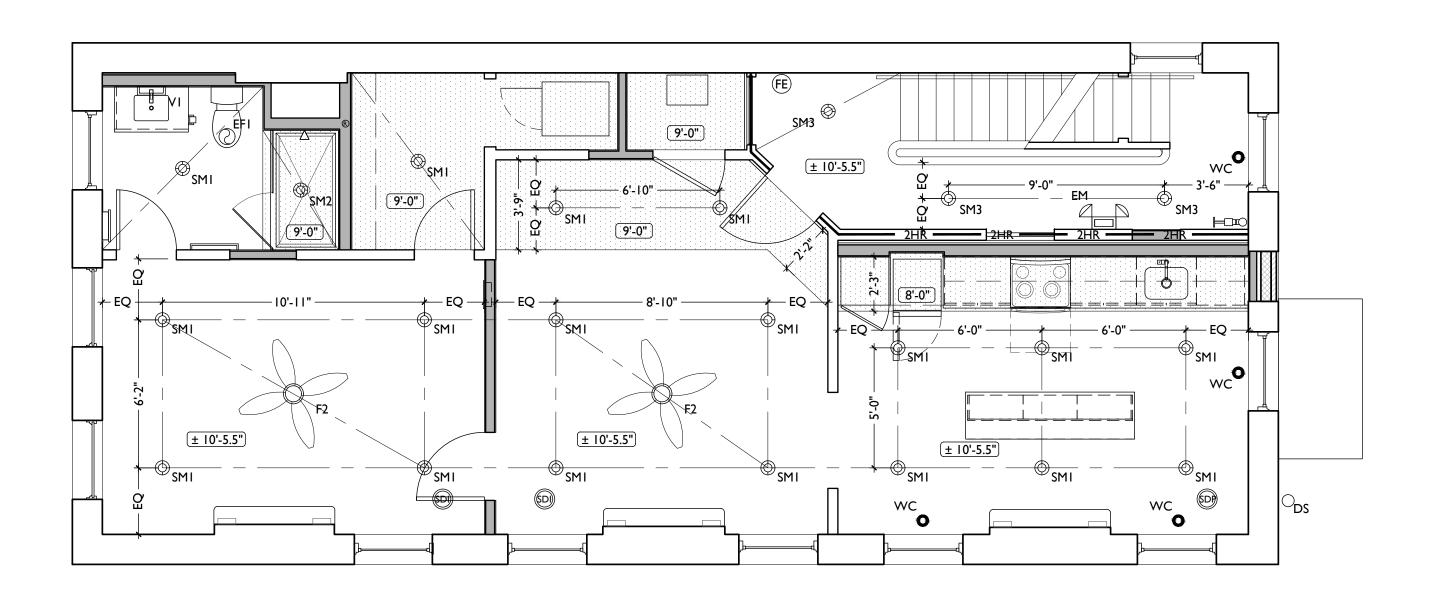
Design Team: CO, JK, MR, MR, RK, RO, SO, TB Drawn by: MR, AM

REPUBLIC / 1810 REPUBLIC

Job No: 22042 04/28/2023

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				REFLEC	TED CEILING PLAN FIXTURE LEGEND:				REFLECTED CEILING PLAN GENERAL NOTES:		REFLECTED CEILING PLAN GRAPHIC KEY:
SYMBOL	FIXTURE TYPE	REMARKS	SYMBOL	FIXTURE TYPE	REMARKS	SYMBOL	FIXTURE TYPE	REMARKS			
© smi © sm2	SURFACE MOUNT	SMI - GENERAL LIGHTS. PROVIDE DIMMERS IN RESIDENTIAL UNITS.		CEILING FAN	SMALL FAN, TYPICAL IN BEDROOMS AND LIVING ROOMS	RHI	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 IN ARCH DWGS.	(CH: 8'-0")	CEILING HEIGHT TAG (TYP 8'-0" U.N.O.) SOFFIT/LOWERED GYP BD CEILING
© SM3		SM2 - DAMP RATED, TYPICAL IN SHOWERS. SM3 - ALWAYS ON , TYPICAL IN COMMON STAIRHALLS	FI	FI WITH LIGHT	SHALL FAIN, FIFTCAL IIN BEDROOMS AND LIVING ROOMS	FM	EMERGENCY EGRESS LIGHT	EMERGENCY EGRESS LIGHT WALL PACK	B. IF A FIXTURE APPEARS TO BE CENTERED IN A SPACE, THEN CENTER IT. 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	<u></u>	AREA OF ATYPICAL FIRE-RATING. SEE PLANS & SHEET A0.01
SMI3	SURFACE MOUNT ENTRY LIGHT	STAIR HALL ENTRY VESTIBULE, IST FLOOR ONLY							DRYWALL U.N.O. SEE FINISH SCHEDULE FOR PAINT COLORS. F. BASEMENTS & UNOCCUPIED ATTICS TO HAVE EXPOSED JOISTS - NO FINISH CLGS U.N.O.		
SM8	SURFACE MOUNT LINEAR LED	TYPICAL IN COMMERCIAL TURNKEY SPACES	F2	CEILING FAN WITH LIGHT	LARGE FAN, TYPICAL IN BEDROOM AND LIVING ROOM				G. ALL SOFFITS OVER KITCHEN CABINETS TO BE 8'-0" AFF AND 2'-1 1/2" WIDE MINIMUM. 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.	WC 	WATER CURTAIN HEAD TO PROVIDE 100% COVERAGE OF WINDOW- COORD W/ F.P PLANS 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
V2	VANITY LIGHT	VI - TYPICAL OVER BATHROOM VANITIES IN TYPICAL RESIDENTIAL UNITS. V2 - TYPICAL ON SIDES OF BATHROOM VANITIES IN TYPICAL	wms	WALL MOUNT EXTERIOR LIGHT	EXTERIOR ARCHITECTURAL GOOSENECK LIGHT				ACCOMMODATE THIS.	_ 	CENTER ON ARCHITECTURAL FEATURE STRUCTURAL MEMBER - SEE STRUCTURAL DWGS
TLI	VANITY LIGHT SURFACE MOUNT	RESIDENTIAL UNITS. 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						



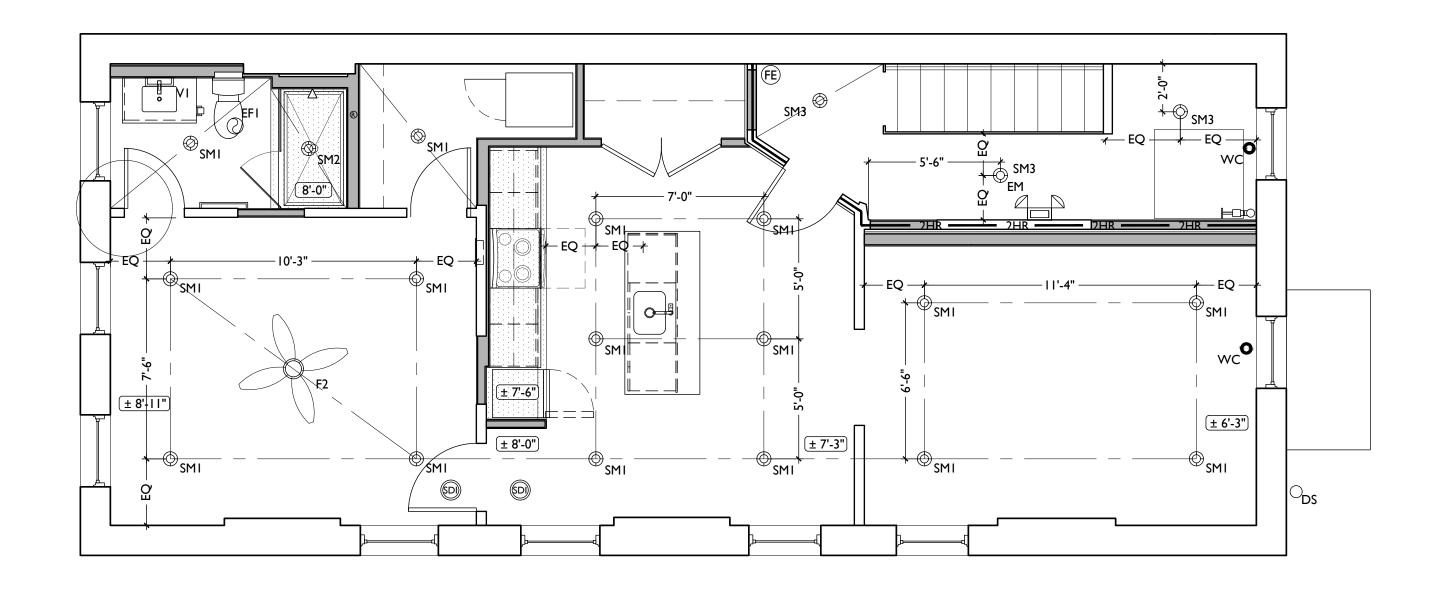


KURT PLATTE 10833 EXP DATE 12.31.2023 Progress Dates 2023.04.28 - BID/PERMIT

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

1810 REPUBLIC REPUBLIC

				REFLEC	TED CEILING PLAN FIXTURE LEGEND:				REFLECTED CEILING PLAN GENERAL NOTES:		REFLECTED CEILING PLAN GRAPHIC KEY:
SYMBOL	FIXTURE TYPE	REMARKS	SYMBOL	FIXTURE TYPE	REMARKS	SYMBOL	FIXTURE TYPE	REMARKS			
© SMI	SURFACE MOUNT	SMI - GENERAL LIGHTS. PROVIDE DIMMERS IN RESIDENTIAL UNITS.		CEILING FAN		RHI	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 IN ARCH DWGS.	CH: 8'-0"	CEILING HEIGHT TAG (TYP 8'-0" U.N.O.) SOFFIT/LOWERED GYP BD CEILING
© SM2 © SM3		SM2 - DAMP RATED, TYPICAL IN SHOWERS. SM3 - ALWAYS ON , TYPICAL IN COMMON STAIRHALLS	FI	WITH LIGHT	SMALL FAN, TYPICAL IN BEDROOMS AND LIVING ROOMS		EMERGENCY EGRESS LIGHT	EMERGENCY EGRESS LIGHT WALL PACK	B. IF A FIXTURE APPEARS TO BE CENTERED IN A SPACE, THEN CENTER IT. 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.	<u></u> 7//////	AREA OF ATYPICAL FIRE-RATING. SEE PLANS &
SM13	SURFACE MOUNT ENTRY LIGHT	STAIR HALL ENTRY VESTIBULE, IST FLOOR ONLY				EM	19.720		E. ALL CEILING FINISHES IN OCCUPIED SPACES TO BE SMOOTH PAINTED DRYWALL U.N.O. SEE FINISH SCHEDULE FOR PAINT COLORS. F. BASEMENTS & UNOCCUPIED ATTICS TO HAVE EXPOSED JOISTS - NO FINISH		SHEET A0.01
SM8	SURFACE MOUNT LINEAR LED	TYPICAL IN COMMERCIAL TURNKEY SPACES	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. 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)	WATER CURTAIN HEAD TO PROVIDE 100% COVERAGE OF WINDOW- COORD W/ F.P PLANS DENOTES NIGHT LIGHT FIXTURE DENOTES OCCUPANCY SENSOR
₫ o ĵ	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.	— 01 – ——	CENTER ON ARCHITECTURAL FEATURE
V2 □		V2 - TYPICAL ON SIDES OF BATHROOM VANITIES IN TYPICAL RESIDENTIAL UNITS.		EMERGENCY							STRUCTURAL MEMBER - SEE STRUCTURAL DWGS
TLI	SURFACE MOUNT TRACK LIGHT	DIMMABLE, TYPICAL IN COMMERCIAL TURNKEY SPACES AND IN LOBBIES	ES	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						





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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

REPUBLIC / 1810 REPUBLIC

Job No: 22042 04/28/2023

A1.25

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 NOTE 22.1. 3.3 EXG OPENING TO BASEMENT TO BE CAPPED WITH CONCRETE AT GRADE. WALL TO BE INFILLED W/ CMU AND BRICK - SEE DETAILS AND KEYNOTE 4.3. IF IN PUBLIC R.O.W. COMPLY W/
- LOCAL JURISDICTION STANDARDS. 3.4 FLOOR IN THIS AREA IS UNSTABLE. SEE STRUCTURAL DWGS.

- PER SHPO NARRATIVE. SEE STRUCTURAL DWGS. 4.2 REPLACE DAMAGED/MISSING BRICK AS SHOWN ON STRUCTURAL 8.2 NEW EXTERIOR BUILDING ENTRY DOOR AND FRAME - SEE DOOR 10.9 RECESSED KEY LOCK BOX - BASIS OF DESIGN KNOXBOX 3200. ELEVATIONS & PER SHPO NARRATIVE.
- 4.3 OPENING TO BE INFILLED WITH CMU AT INTERIOR AND BRICK 8.3 AT EXTERIOR. BRICK IS TO MATCH EXG ADJACENT HISTORIC BRICK IN SIZZE, TEXTURE, AND APPEARANCE. FACE OF BRICK IN OPG IS TO BE SET BACK I" FROM FACE OF EXG WALL. SEE
- 5.1 NEW CONTINUOUS STEEL PIPE HANDRAIL. SEE DETAILS. 5.2 NEW STEEL PIPE GUARDRAIL. SEE DETAILS.

5.3 REPAIR/RETAIN EXG FIRE ESCAPE. PAINT BLACK.

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

STRUCTURAL DRAWINGS.

- NEW RAKE TRIM & GUTTERBOARD TO MATCH EXISTING SEE ELEVATIONS.
- 6.3 REPAIR/RETAIN EXG CORNICE. REPAINT. INTERSECTION W/ NON-RATED WALL. 6.4 NEW WOOD STRUCTURAL MEMBERS. SEE STRUCTURAL DWGS. 9.3 NEW HARDWOOD FLOORING. 6.5 NEW FRAMING/SHEATHING/DECKING IN THIS AREA. SEE

7. THERMAL AND MOISTURE PROTECTION

- REPAIR/RE-LINE EXG BOX GUTTER. NEW ROUND ALUMINUM DOWNSPOUT PAINTED TO MATCH ADJACENT WALL SURFACE. SEE EXTERIOR ELEVATIONS. TIE INTO EXISTING SEWER SYSTEM.
- 7.3 NEW PVC AT LOWER 6' OF DOWNSPOUT. PAINT TO MATCH DOWNSPOUT. 7.4 NEW FULLY ADHERED WHITE TPO MEMBRANE ROOF W/
- CRICKETS WHERE REQUIRED FOR POSITIVE DRAINAGE AND W/ TERMINATION BARS & METAL COUNTERFLASHING - SEE ROOF 10.4 PROVIDE "NO SMOKING" SIGN AT EXTERIOR WALL. FULLY ADHERED ROOF SYSTEM, 20 YEAR WARRANTY, BY CARLISLE SYNTEC, CARLISLE, PA, OR EQUIVALENT.
- 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.

- 4.1 TUCKPOINT BRICK AS SHOWN ON STRUCTURAL ELEVATIONS & 8.1 EXG HISTORIC DOOR AND FRAME/TRANSOM TO REMAIN. SEE DOOR TYPES AND SCHEDULE.
 - SCHEDULE. EXISTING HISTORIC DOOR TO REMAIN AND BE FIXED IN PLACE. FIRE RATING TO BE CONTINUOUS BEHIND DOOR. SEE DOOR SCHEDULE AND DETAILS.
 - 8.4 NEW DOOR IN EXISTING HISTORIC FRAME/TRANSOM. FIRE RATING TO REMAIN CONTINUOUS BEHIND TRANSOM. SEE
 - DOOR SCHEDULE AND DETAILS. 8.5 RELOCATED HISTORIC DOOR/OPG. SEE DOOR SCHEDULE. 8.6 RELOCATED HISTORIC WINDOW SEE WINDOW TYPES AND

9. FINISHES

- 9.1 EXG PLASTER AT MASONRY WALL TO BE PATCHED AND
- REPAIRED. WHERE POSSIBLE. FIRE-RATING TO BE CONTINUOUS BEHIND PLUMBING/CHASE/ FURRING WALL. FIRE RATING TO BE CONTINUOUS AT

10. SPECIALTIES

- 10.1 LOCKABLE & RECESSED MAILBOXES. BOXES TO MEET USPS-4C STANDARDS & ACCESSIBILITY REQUIREMENTS. PROVIDE CONT FIRE-RATING BEHIND MAILBOXES, WHEN REO. 10.2 SURFACE MOUNTED ENTRY SECURITY SYSTEM CALL BOX BY
- SECURITY CONTRACTOR. 10.3 CLOSETS W/ BLOCKING AT RODS & BRACKETS. PROVIDE 12" 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. DETAILS. INSULATION PER SCHEDULE. B.O.D - 60 MIL WHITE TPO. 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 HEATER. SEE PLUMBING DWGS.
 - ENLARGED PLANS, INTERIOR ELEVATIONS AND FINISH SCHEDULE. 10.8 SHOWER NICHE. SEE ENLARGED PLANS, INTERIOR ELEVATIONS AND DETAIL I/A5.00. INSTALL PER MANUF'S INSTRUCTS. COORDINATE WITH FIRE DEPT.

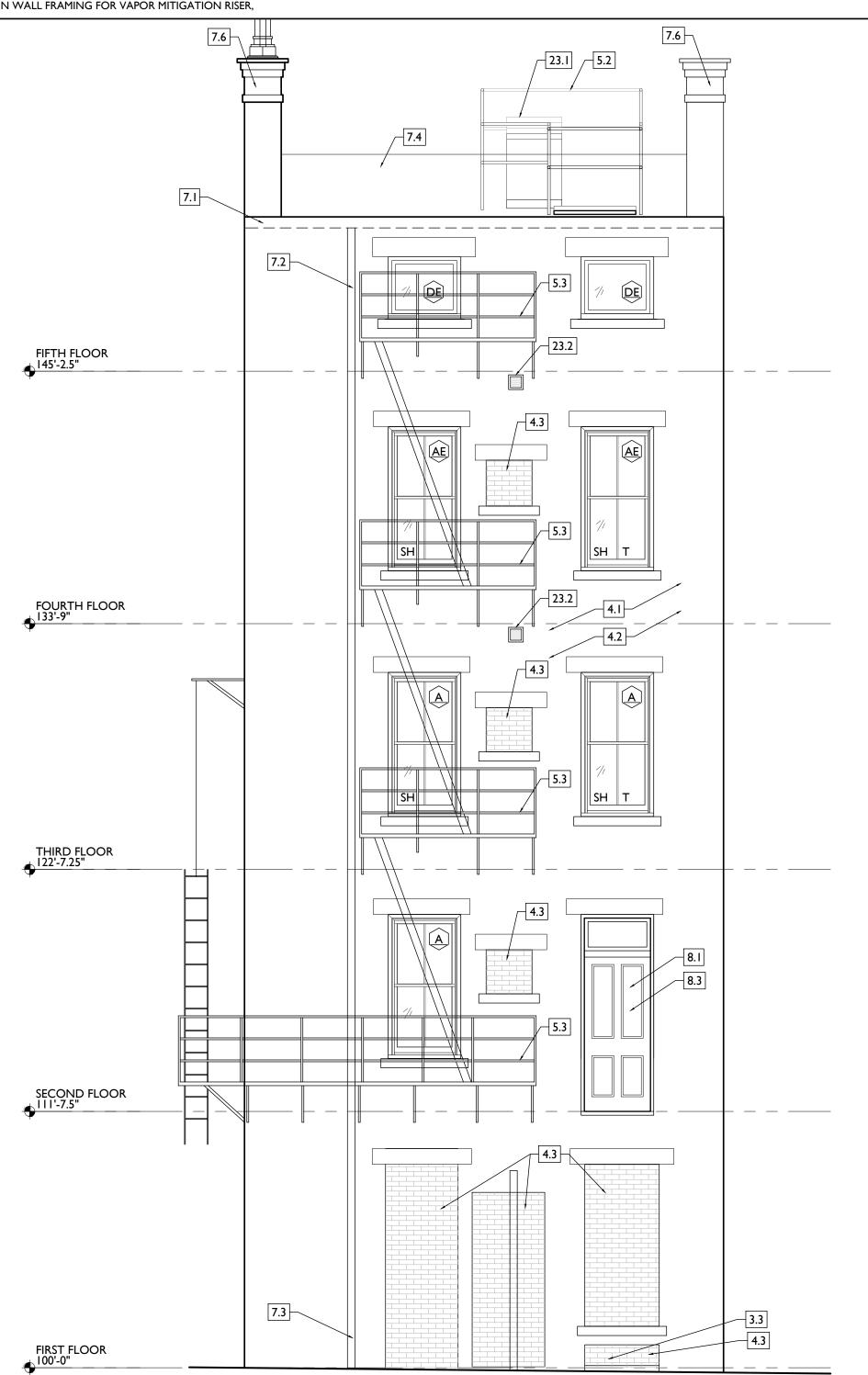
21. FIRE SUPPRESSION

- 21.1 APPROX LOCATION OF FDC CONNECTION COORDINATE W/ FIRE DEPT.
- 21.2 SPRINKLER RISER. SEE PLUMBING DWGS. 21.3 EXTERIOR TAMPER/FLOW NOTIFICATION DEVICE - COORDINATE WITH ELECTRICAL AND FIRE PROTECTION SYSTEMS.

22. PLUMBING

22.1 PROVIDE PIPE IN WALL FRAMING FOR VAPOR MITIGATION RISER,







EMERGENCY EGRESS EXIT.

X'-X" ELEVATION TAG.

OPG CONTAINS TEMPERED GLAZING.

FIXED WITHIN 3'-0" OF EXHAUST.

EXP DATE 12.31.2023 Progress Dates 2023.04.28 - BID/PERMIT

Revisions

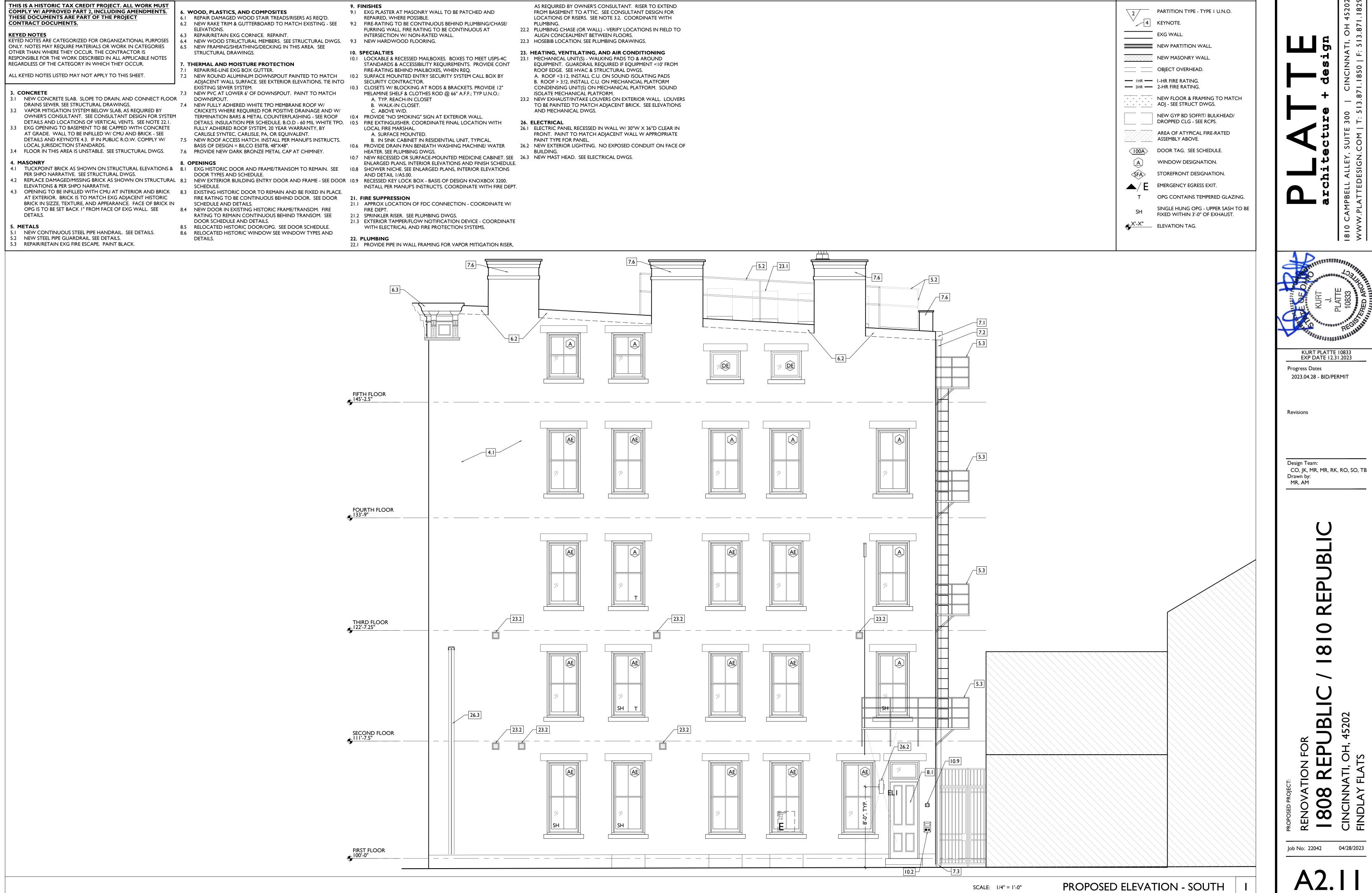
Design Team:
CO, JK, MR, MR, RK, RO, SO, TB
Drawn by:
MR, AM

REPUBLIC 0 ∞ REPUBLIC

808 Job No: 22042 04/28/2023

PROPOSED ELEVATION - EAST

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



NEW WORK PLANS & ELEVATIONS # KEYED NOTES:

EXP DATE 12.31.2023

NEW WORK GRAPHIC KEY:

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 NOTE 22.1. 3.3 EXG OPENING TO BASEMENT TO BE CAPPED WITH CONCRETE AT GRADE. WALL TO BE INFILLED W/ CMU AND BRICK - SEE DETAILS AND KEYNOTE 4.3. IF IN PUBLIC R.O.W. COMPLY W/ LOCAL JURISDICTION STANDARDS. 3.4 FLOOR IN THIS AREA IS UNSTABLE. SEE STRUCTURAL DWGS.

PER SHPO NARRATIVE. SEE STRUCTURAL DWGS. 4.2 REPLACE DAMAGED/MISSING BRICK AS SHOWN ON STRUCTURAL 8.2 NEW EXTERIOR BUILDING ENTRY DOOR AND FRAME - SEE DOOR 10.9 RECESSED KEY LOCK BOX - BASIS OF DESIGN KNOXBOX 3200. ELEVATIONS & PER SHPO NARRATIVE.

4.3 OPENING TO BE INFILLED WITH CMU AT INTERIOR AND BRICK 8.3 AT EXTERIOR. BRICK IS TO MATCH EXG ADJACENT HISTORIC BRICK IN SIZZE, TEXTURE, AND APPEARANCE. FACE OF BRICK IN OPG IS TO BE SET BACK I" FROM FACE OF EXG WALL. SEE

5.1 NEW CONTINUOUS STEEL PIPE HANDRAIL. SEE DETAILS. 5.2 NEW STEEL PIPE GUARDRAIL. SEE DETAILS.

5.3 REPAIR/RETAIN EXG FIRE ESCAPE. PAINT BLACK.

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

STRUCTURAL DRAWINGS.

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

6.4 NEW WOOD STRUCTURAL MEMBERS. SEE STRUCTURAL DWGS. 9.3 NEW HARDWOOD FLOORING.

6.5 NEW FRAMING/SHEATHING/DECKING IN THIS AREA. SEE

7. THERMAL AND MOISTURE PROTECTION REPAIR/RE-LINE EXG BOX GUTTER. NEW ROUND ALUMINUM DOWNSPOUT PAINTED TO MATCH ADJACENT WALL SURFACE. SEE EXTERIOR ELEVATIONS. TIE INTO EXISTING SEWER SYSTEM.

7.3 NEW PVC AT LOWER 6' OF DOWNSPOUT. PAINT TO MATCH DOWNSPOUT. 7.4 NEW FULLY ADHERED WHITE TPO MEMBRANE ROOF W/ CRICKETS WHERE REQUIRED FOR POSITIVE DRAINAGE AND W/

FULLY ADHERED ROOF SYSTEM, 20 YEAR WARRANTY, BY CARLISLE SYNTEC, CARLISLE, PA, OR EQUIVALENT. 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.

4.1 TUCKPOINT BRICK AS SHOWN ON STRUCTURAL ELEVATIONS & 8.1 EXG HISTORIC DOOR AND FRAME/TRANSOM TO REMAIN. SEE DOOR TYPES AND SCHEDULE.

SCHEDULE. EXISTING HISTORIC DOOR TO REMAIN AND BE FIXED IN PLACE. FIRE RATING TO BE CONTINUOUS BEHIND DOOR. SEE DOOR SCHEDULE AND DETAILS.

8.4 NEW DOOR IN EXISTING HISTORIC FRAME/TRANSOM. FIRE RATING TO REMAIN CONTINUOUS BEHIND TRANSOM. SEE DOOR SCHEDULE AND DETAILS.

8.5 RELOCATED HISTORIC DOOR/OPG. SEE DOOR SCHEDULE. 8.6 RELOCATED HISTORIC WINDOW SEE WINDOW TYPES AND DETAILS.

9. FINISHES

9.1 EXG PLASTER AT MASONRY WALL TO BE PATCHED AND REPAIRED, WHERE POSSIBLE.

FIRE-RATING TO BE CONTINUOUS BEHIND PLUMBING/CHASE/ FURRING WALL. FIRE RATING TO BE CONTINUOUS AT INTERSECTION W/ NON-RATED WALL.

10. SPECIALTIES 10.1 LOCKABLE & RECESSED MAILBOXES. BOXES TO MEET USPS-4C

STANDARDS & ACCESSIBILITY REQUIREMENTS. PROVIDE CONT FIRE-RATING BEHIND MAILBOXES, WHEN REO. 10.2 SURFACE MOUNTED ENTRY SECURITY SYSTEM CALL BOX BY SECURITY CONTRACTOR.

10.3 CLOSETS W/ BLOCKING AT RODS & BRACKETS. PROVIDE 12" 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. TERMINATION BARS & METAL COUNTERFLASHING - SEE ROOF 10.4 PROVIDE "NO SMOKING" SIGN AT EXTERIOR WALL. DETAILS. INSULATION PER SCHEDULE. B.O.D - 60 MIL WHITE TPO. 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 HEATER. SEE PLUMBING DWGS.

10.7 NEW RECESSED OR SURFACE-MOUNTED MEDICINE CABINET. SEE 26.3 NEW MAST HEAD. SEE ELECTRICAL DWGS. ENLARGED PLANS, INTERIOR ELEVATIONS AND FINISH SCHEDULE. 10.8 SHOWER NICHE. SEE ENLARGED PLANS, INTERIOR ELEVATIONS AND DETAIL I/A5.00.

INSTALL PER MANUF'S INSTRUCTS. COORDINATE WITH FIRE DEPT.

21. FIRE SUPPRESSION

21.1 APPROX LOCATION OF FDC CONNECTION - COORDINATE W/ FIRE DEPT.

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

22. PLUMBING

22.1 PROVIDE PIPE IN WALL FRAMING FOR VAPOR MITIGATION RISER,

NEW WORK PLANS & ELEVATIONS # KEYED NOTES:

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 PLUMBING.

22.2 PLUMBING CHASE (OR WALL) - VERIFY LOCATIONS IN FIELD TO ALIGN CONCEALMENT BETWEEN FLOORS. 22.3 HOSEBIB LOCATION. SEE PLUMBING DRAWINGS.

23. HEATING, VENTILATING, AND AIR CONDITIONING

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 B. ROOF > 3:!2, INSTALL C.U. ON MECHANCIAL PLATFORM CONDENSING UNIT(S) ON MECHANICAL PLATFORM. SOUND

ISOLATE MECHANICAL PLATFORM. 23.2 NEW EXHAUST/INTAKE LOUVERS ON EXTERIOR WALL. LOUVERS TO BE PAINTED TO MATCH ADJACENT BRICK. SEE ELEVATIONS AND MECHANICAL DWGS.

26. ELECTRICAL

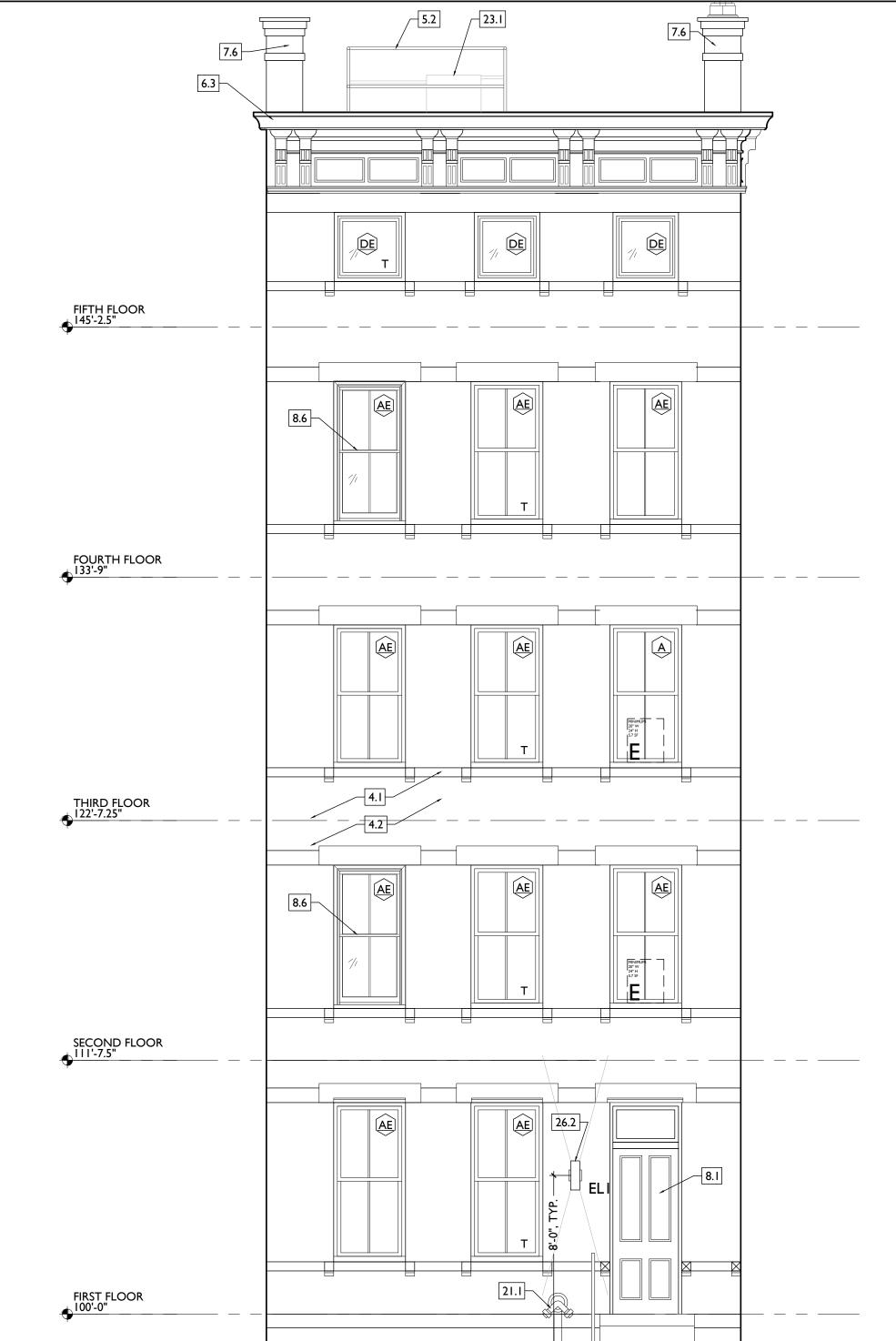
26.1 ELECTRIC PANEL RECESSED IN WALL W/ 30"W X 36"D CLEAR IN FRONT. PAINT TO MATCH ADJACENT WALL W APPROPRIATE PAINT TYPE FOR PANEL.

26.2 NEW EXTERIOR LIGHTING. NO EXPOSED CONDUIT ON FACE OF BUILDING.

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. (IOOA) DOOR TAG. SEE SCHEDULE. WINDOW DESIGNATION. <\$FA> 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

Revisions

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

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PROPOSED ELEVATION - WEST

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

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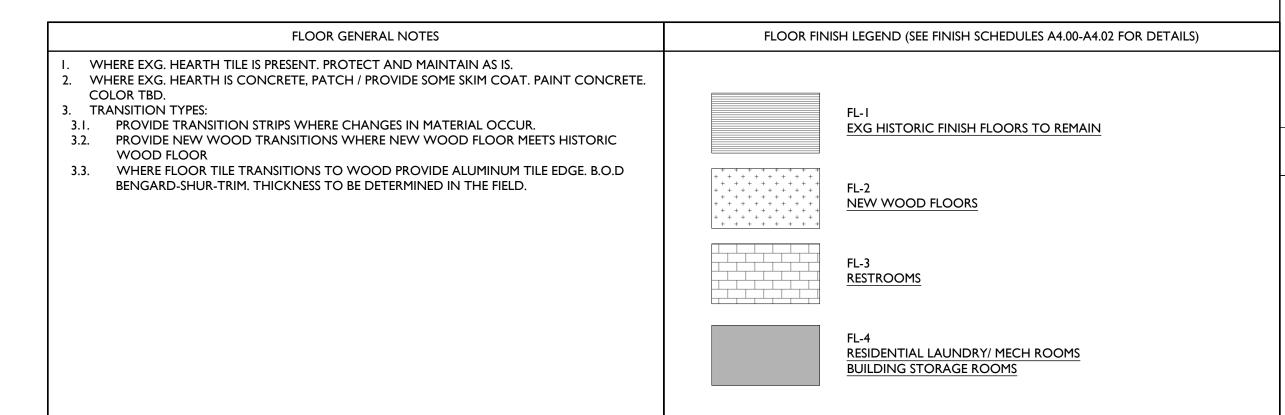
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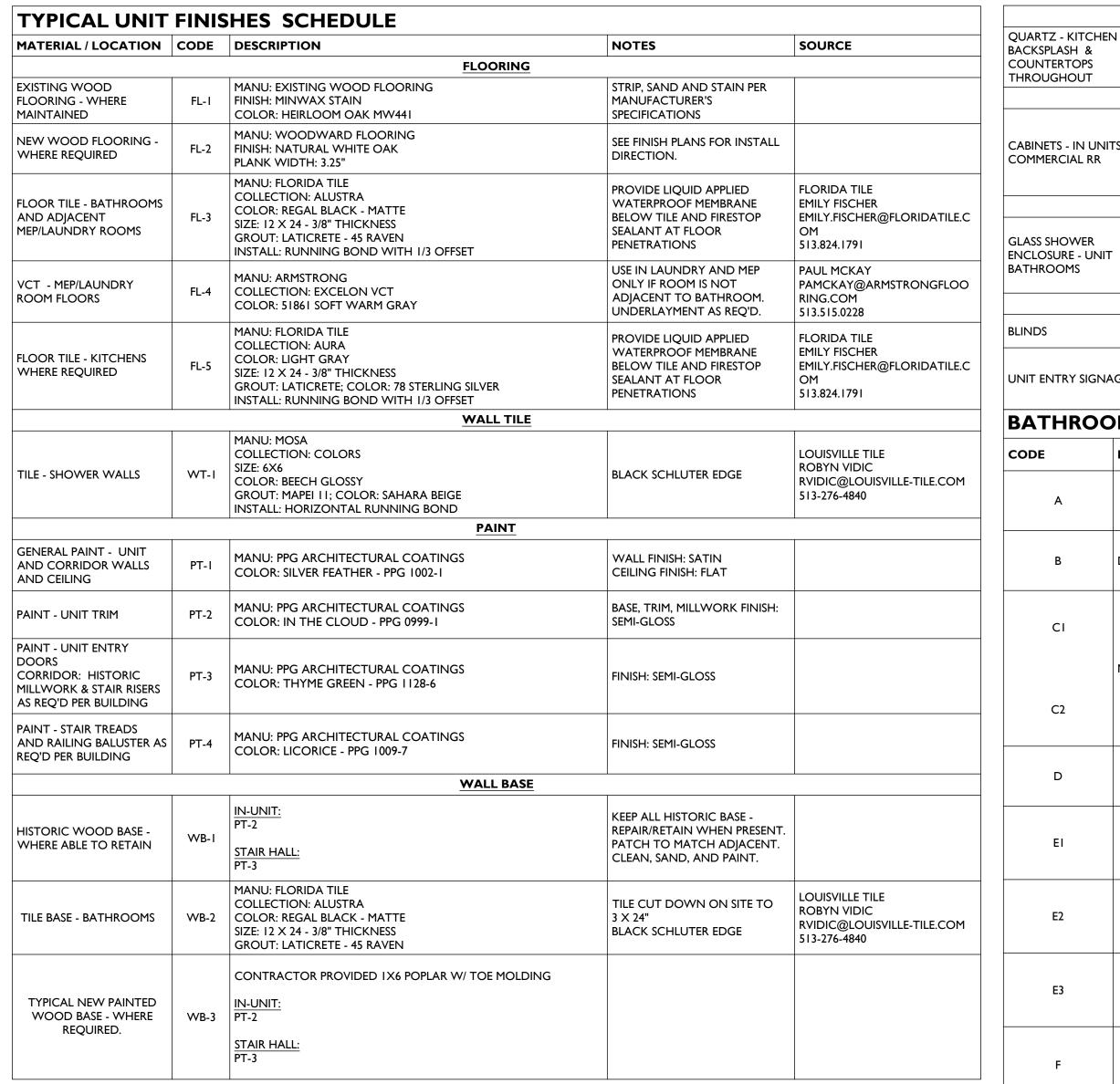
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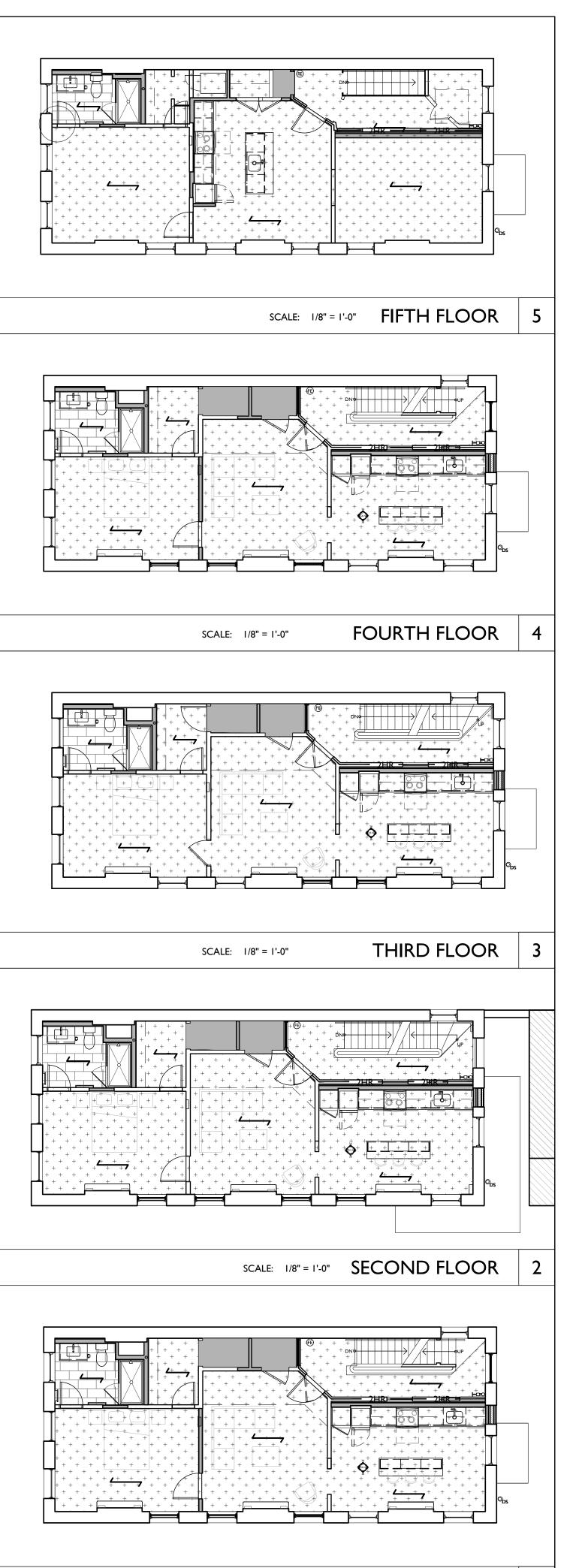
SCALE: 1/4" = 1'-0"



SOLID SURFACE



QUARTZ - KITCHE BACKSPLASH & COUNTERTOPS THROUGHOUT	EN	SS-I		CORIAN - QUARTZ : CALCATTA VILLA - 2CM	FULL BACKSPLASH, SEE ELEVATIONS	BRIAN FORTIN BRIAN.FORTIN@OVSCO.COM 513.582.2528	
		<u> </u>	I	CASEGOODS			
CABINETS - IN UNITS/ COMMERCIAL RR CG-1 DOOR MAPLE			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	
				<u>GLASS</u>			
GLASS SHOWER ENCLOSURE - UNIT BATHROOMS GL-I GLASS:			DOOR MODEL: GLASS: A	A FRAMELSS 3/8" GLASS SWING DOOR & PANEL SHOWER CELA-935 AQUA GLIDE GLASS CHROME			
				<u>OTHER</u>			
BLINDS				(WOOD BLINDS AT ALL RESIDENTIAL UNITS, WHITE VERIFY ALL LOCATIONS WITH OWNER			
JNIT ENTRY SIGNAGE BECIZ NUMB COO		BECIZY NUMBER	4"L X 2.5"W FLOATING WALL MOUNT MODERN HOUSE R, BLACK. VERIFY ALL LOCATIONS WITH OWNER. DINATE LOCATIONS WITH ACCESSIBILITY REQUIREMENTS	FINAL LOCATION TO BE DETERMINED BY OWNER	AMAZON https://tinyurl.com/mr37xwxn		
BATHRO	OM EC	QUIPM	1ENT	SCHEDULE			
CODE	DDE ITEM			MANUFACTURER & PRODUCT #	MOUNTING HEIGHT	REMARKS	
А	GRAB B	ARS		MANU: BOBRICK LINE: B-5806×18 SIZE: (18") × 36 (36") & 42 (42")	PER ELEVATIONS & ACCESSIBILITY REQUIREMENTS	COMMERCIAL BATHROOM	
В	DIAPER CHANGE 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				RECESSED: MANU: KOHLER 16"x20" SINGLE DOOR REVERSIBLE HINGE FRAMELESS MIRRORED MEDICINE CABINET MODEL: K-CB-CLR1620FS	PER ELEVATIONS	LINIT DATHDOOMS	
C2	MEDICIN	ie Cabine ⁻	ı	SURFACE MOUNTED: RANGAIRE SURFACE MOUNT 16"X22" SINGLE DOOR MEDICINE CABINE WITH REVERSIBLE DOOR SWING MODEL: 4565MX		UNIT BATHROOMS	
D	PAPER T	OWEL 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 DISPENS			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	ООК		"HARNEY HARDWARE COLLECTION: CLEARWATER ROBE HOOK FINISH: MATTE BLACK PRODUCT # 10218"	48" A.F.F.	UNIT/COMMERCIAL BATHROOMS	
F	MIRROF	₹		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	



FIRST FLOOR SCALE: 1/8" = 1'-0"

FINISH FLOOR PLANS

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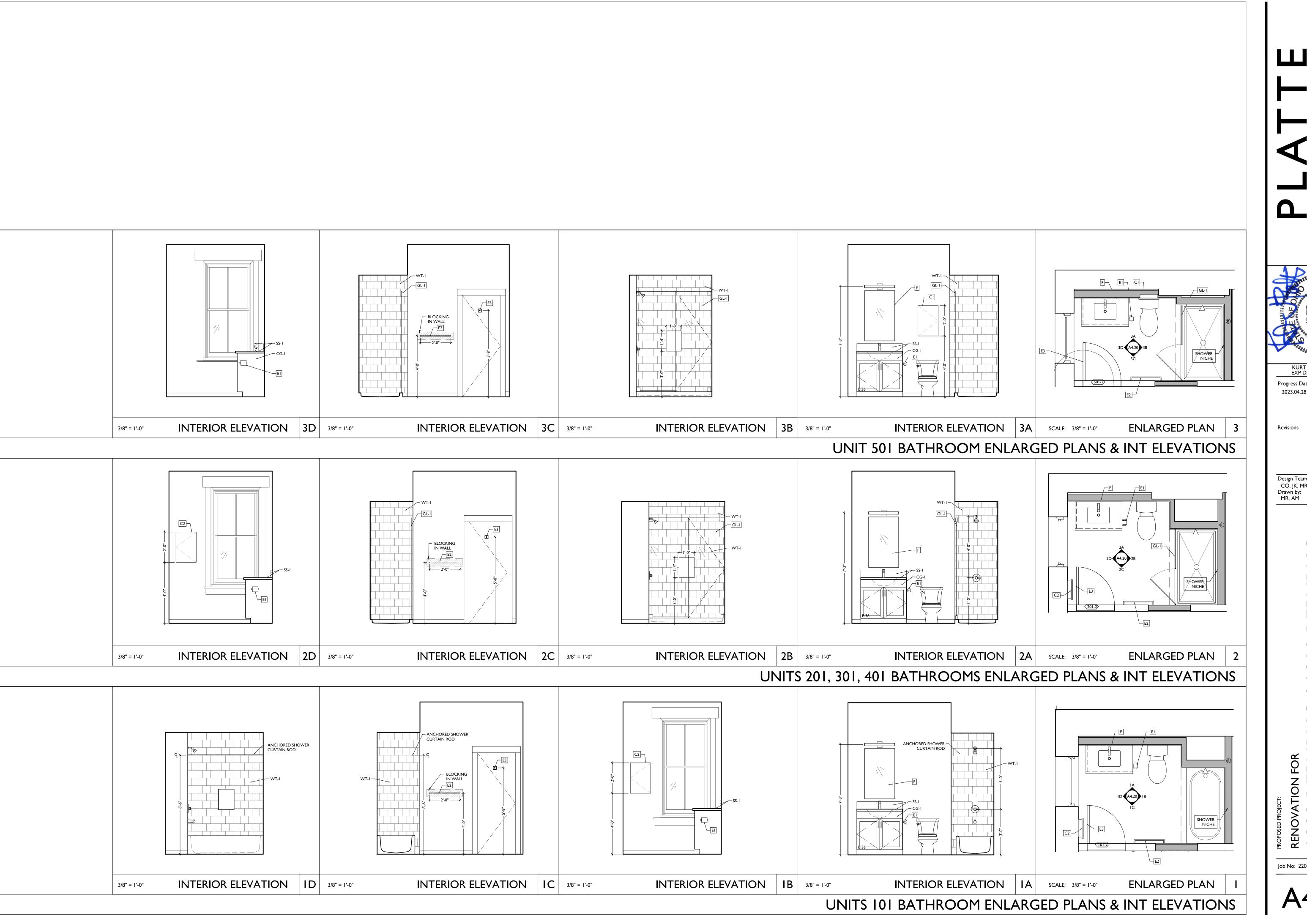
Revisions

Drawn by:

MR, AM

Job No: 22042 04/28/2023

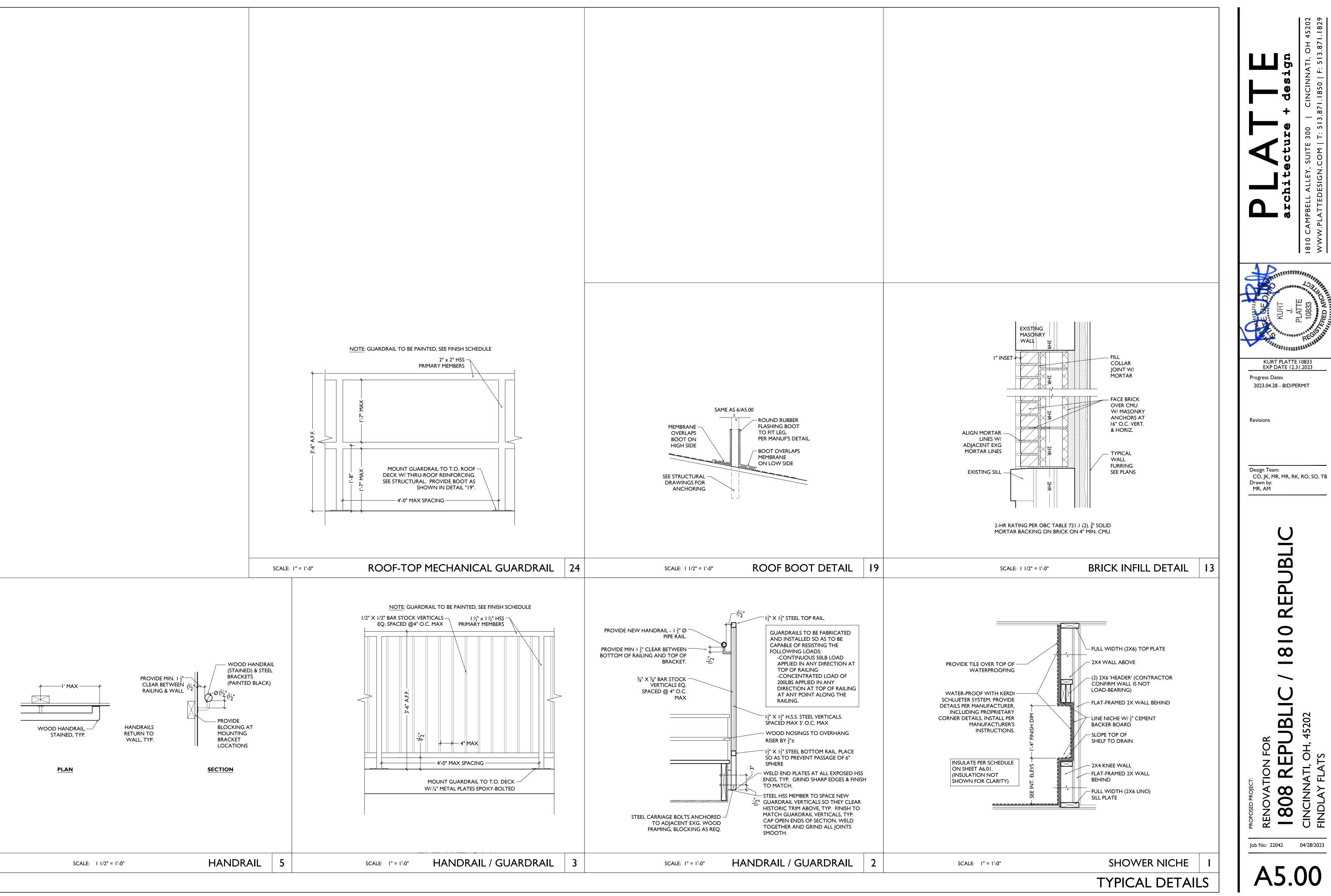


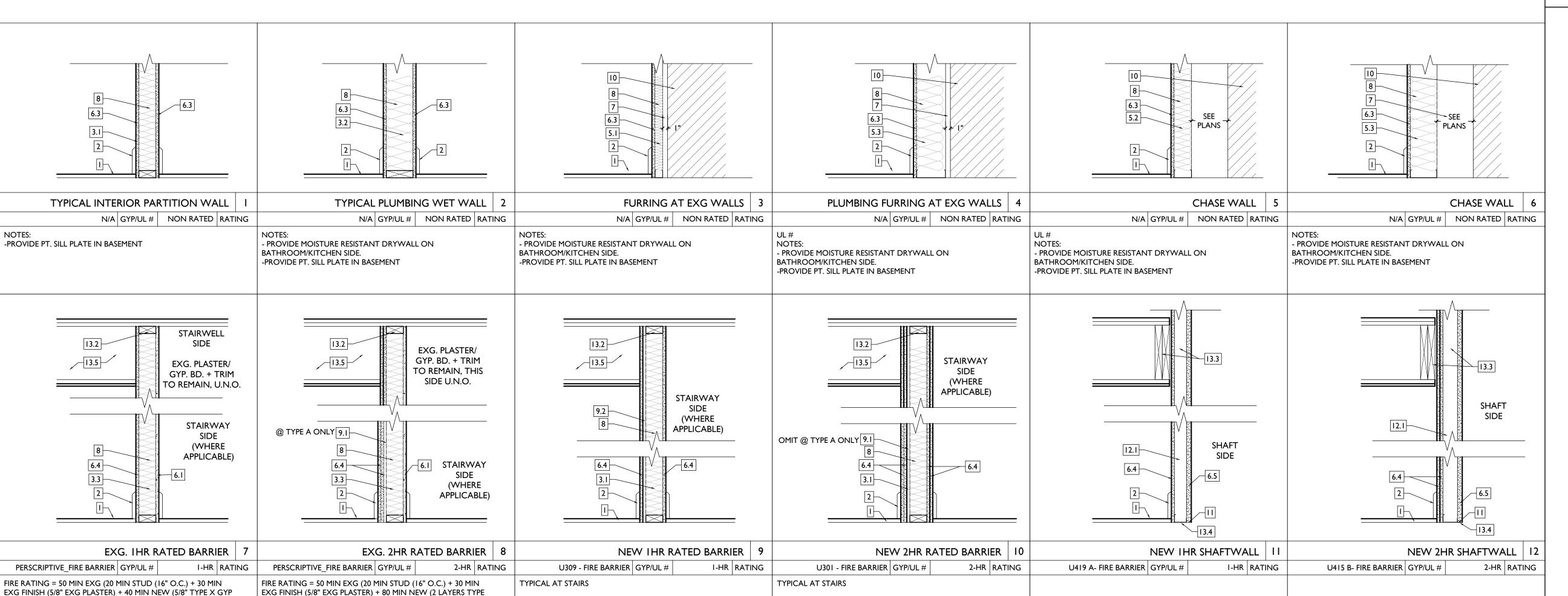


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1810 REPUBLIC RENOVATION FOR I 808 REPUBLIC





- 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

STC - 50-54 STC

I-HR RATING

NEW 1HR RATED UNIT SEPERATION | 14

U309 - FIRE PARTITIONS GYP/UL#

TYPICAL UNIT SEPERATION/CORRIDOR WALLS

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

INSUL	ATION SCH	IEDULE	
LOCATION	ТҮРЕ	R-VALUE	NOTES
MECHANICAL CLOSET WALLS	SOUND ATTENUATION BATT	-	FILL STUD CAVITY
BATHROOM WALLS	SOUND ATTENUATION BATT	-	FILL STUD CAVITY
PLUMBING CHASE WALLS	FIBERGLASS BATTS STAPLED TO STUDS	R-13 MIN.	CONTINUOUS PIPE INSULATION AT ALL PLUMBING LINES
BETWEEN OFFICE TENANT SPACES	SOUND ATTENUATION BATT	-	FILL CAVITY
BETWEEN DWELLING UNITS	SOUND ATTENUATION BATT	-	FILL CAVITY
FURRING AT EXTERIOR WALLS	SPRAY-APPLIED CELLULOSE	-	FILL CAVITY
STAIR HALL ENCLOSURE WALLS	SOUND ATTENUATION BATTS	-	FILL CAVITY & COORD W/ FIRE-RATING & UL ASSEMBLY
STAIR HALL ENCLOSURE WALLS AT UNCONDITIONED ATTIC	BLOWN-IN CELLULOSE OR FIBERGLASS BATTS	R-19 MIN.	FILL CAVITY
CLG BETWEEN ATTIC FLOOR AND OCCUPIED UNIT BELOW	BLOWN-IN CELLULOSE OR FIBERGLASS BATTS	R-38	INSULATION BETWEEN JOISTS
CEILING BETWEEN BASEMENT/RESIDENTIAL	CLOSED CELL SPRAY FOAM	R-30	COORD W/ UL ASSEMBLY & FIRE RATING
ATTIC CEILING	NONE REQ		REQ INSULATION PROVIDED @ ATTIC FLOOR
CEILING OF OCCUPIED ATTIC	CLOSED CELL SPRAY FOAM	R-38	
CEILING B/W BREEZEWAY/OCCUPIED SPACE	FIBERGLASS BATTS	R-30 MIN.	FILL CAVITY & COORD W/ FIRE-RATING & UL ASSEMBLY
CEILING B/W TWO SEPARATE OCCUPIED RESIDENCES	SOUND ATTENUATION BATT	6" MIN SOUND BATT	COORD W/ UL ASSEMBLY & FIRE RATING
CEILING B/W FLOORS OF SAME RESIDENCE	SOUND ATTENUATION BATTS	6" MIN SOUND BATT	

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

BD) = 90 MIN TOTAL FIRE RATING

	721 PRESCRIPTIVE FIRE RESISTANCE - TABLE 720.1 (2) RATED FIRE-RESISTANCE FOR WALLS						
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"			

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 II. 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

- A. 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
- A.A. B.O.D. MOISTURE RESISTANT DENSGLASS. PROVIDE FIRE RATINGS AS INDICATED ON PLANS AND

ASSEMBLY & **PARTITION**

WASHER, ETC.

PARTITIONS/ASSEMBLIES

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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

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Job No: 22042 04/28/2023

GENERAL NOTES

GENERAL NOTES:

FURRING AT EXG WALLS | 15 N/A GYP/UL# NON RATED RATING

- PROVIDE MOISTURE RESISTANT DRYWALL ON

-PROVIDE PT. SILL PLATE IN BASEMENT

BATHROOM/KITCHEN SIDE.

TYPICAL FLOOR/CEILING/SHAFT ASSEMBLIES (LABELED ON PLANS AND SECTION DIAGRAM ON SHEET A0.01) — EXG OR NEW 3/4" NAIL-DOWN HARDWOOD FLOOR (PER - EXG OR NEW WOOD FLOOR (WHEN CERAMIC TILE IS FINAL FINISH, PROVIDE (2) LAYERS OF WOOD SUBFLOOR). UL DESIGN L505) -OR- 5/8" PLYWOOD UNDERLAYMENT (PER UL DESIGN L511). COORDINATE W/ FINISH SCHEDULE. FINISH VARIES - SEE - FINISH VARIES - SEE - FINISH VARIES - NOT OR NEW 3/4" SCHEDULE. PART OF FIRE ASSEMBLY. SCHEDULE. - EXG 3/4" T&G FLOOR OR NEW ----*-*---PLYWOOD SUBFLOOR. 3/4" PLYWOOD SUBFLOOR. _________ _________ EXG FLOOR JOISTS. EXG FLOOR JOISTS. EXG 3/4" T&G FLOOR EXG 3/4" T&G FLOOR - EXG 3/4" T&G FLOOR - INSULATION PER SCHEDULE. OR NEW 3/4" OR NEW 3/4" OR NEW 3/4" - INSULATION PER SCHEDULE. PLYWOOD SUBFLOOR. PLYWOOD SUBFLOOR. PLYWOOD SUBFLOOR. - I/2" RESILIENT EXG FLOOR JOISTS. - EXG FLOOR JOISTS. - EXG FLOOR JOISTS. (I) LAYER 5/8" TYPE-C GYP. BD. CHANNELS @ 24" O.C. — I/2" RESILIENT CHANNELS **INSULATION PER** INSULATION PER @ 24" O.C. SCHEDULE. SCHEDULE. I) ADDITIONAL LAYER I/2" TYPE-C GYP. BD. WHEN (I) LAYER 5/8" GYP BD, TYP (I) ADDITIONAL LAYER I/2" TYPE-C - NO FINISH CEILING. (2) LAYERS 5/8" INSULATION IS USED - SEE EXCEPT IN BASEMENTS, U.N.O. GYP. BD. WHEN INSULATION IS USED TYPE-X GYP. BD. NOTES BELOW RE: BASEMENT - SEE NOTES BELOW RE: BASEMENT & & EXTERIOR CONDITIONS EXTERIOR CONDITIONS FLR/CLG ASSEMBLY | A I-HR FLR/CLG MEMBRANE FLR/CLG ASSEMBLY | B I-HR FLR/CLG DWELLING SEPERATION | D 2 HR FLR/CLG CORRIDOR/USE GROUP SEP. NON RATED | RATING I-HR RATING N/A GYP/UL# NON RATED | RATING N/A GYP/UL# GA-FC-5406 GYP/UL# UL#L514 | GYP/UL# UL#L505 -OR- L511 GYP/UL# 2-HR RATING NOTES: PROVIDE MOISTURE RESISTANT DRYWALL IN BASEMENTS NOTES: PROVIDE MOISTURE RESISTANT DRYWALL IN BASEMENTS -PROTECTION PROVIDED FROM UNDERSIDE NOTES: PROVIDE MOISTURE RESISTANT DRYWALL IN BASEMENTS + NOTES: PROVIDE MOISTURE RESISTANT DRYWALL IN BASEMENTS + -PROVIDE MOISTURE RESISTANT DRYWALL IN BASEMENTS EXTERIOR SOFFIT BOARD EXTERIOR APPLICATIONS EXTERIOR SOFFIT BOARD IN EXTERIOR APPLICATIONS - EXG OR NEW 3/4" NAIL-DOWN HARDWOOD FLOOR (PER EXG OR NEW 3/4" NAIL-DOWN HARDWOOD FLOOR (PER - FINISH VARIES - NOT UL DESIGN L505) -OR- 5/8" PLYWOOD UNDERLAYMENT UL DESIGN L505) -OR- 5/8" PLYWOOD UNDERLAYMENT PART OF FIRE ASSEMBLY. (PER UL DESIGN L511). COORDINATE W/ FINISH SCHEDULE. (PER UL DESIGN L511). COORDINATE W/ FINISH SCHEDULE. - EXG 3/4" T&G FLOOR OR - EXG 3/4" T&G FLOOR OR NEW — EXG 3/4" T&G FLOOR OR NEW NEW 3/4" PLYWOOD 3/4" PLYWOOD SUBFLOOR. 3/4" PLYWOOD SUBFLOOR. - EXG FLOOR JOISTS (SHOWN - EXG FLOOR JOISTS (SHOWN TRANSVERSE TO SECTION CUT). EXG FLOOR JOISTS. TRANSVERSE TO SECTION CUT). - INSULATION PER SCHEDULE. - INSULATION PER SCHEDULE. - INSULATION PER - IX3 BRIDGING. (NOT SHOWN) SCHEDULE. - (I) LAYER 5/8" TYPE-C GYP. BD. IX3 BRIDGING. (NOT SHOWN) - RSIC-I CLIPS @ 48" O.C. - ATTACH (3) LAYERS 5/8" - RSIC-I CLIPS @ 48" O.C. - ATTACH TYPE-X GYP. BD. TO ALTERNATING JOISTS - 7/8" TO ALTERNATING JOISTS - 7/8" **RESILIENT CHANNELS FRICTION FIT RESILIENT CHANNELS FRICTION FIT** 7/8" RESILIENT INSIDE CLIPS - SPACING PER INSIDE CLIPS - SPACING PER CHANNELS @ 24" O.C. MANUF'S INSTRUCTIONS. MANUF'S INSTRUCTIONS. (I) LAYER 5/8" TYPE-C GYP. BD. (I) LAYER 5/8" TYPE-X - (I) ADDITIONAL LAYER I/2" TYPE-C GYP. BD. WHEN - (I) ADDITIONAL LAYER I/2" TYPE-C GYP. BD. WHEN GYP. BD. INSULATION IS USED - SEE NOTES BELOW INSULATION IS USED - SEE NOTES BELOW 2-HR FLR/CLG MEMBRANE | F NOT USED G 2-HR FLR/CLG MEMBRANE I-HR FLR/CLG MEMBRANE GA-FC-5725 GYP/UL# 2-HR RATING GYP/UL# RATING I-HR RATING UL #L514 | GYP/UL # UL #L505 -OR- L511 | GYP/UL # NOTES: - PROVIDE MOISTURE RESISTANT DRYWALL IN BASEMENTS + NOTES: - PROVIDE MOISTURE RESISTANT DRYWALL IN BASEMENTS + -PROVIDES PROTECTION FROM UNDERSIDE EXTERIOR SOFFIT BOARD IN EXTERIOR APPLICATIONS EXTERIOR SOFFIT BOARD IN EXTERIOR APPLICATIONS - IF INDICATED IN PLAN KEYNOTES, REINSTALL HISTORIC TIN - IF INDICATED IN PLAN KEYNOTES, REINSTALL HISTORIC TIN CEILING AT UNDERSIDE OF ASSEMBLY CEILING AT UNDERSIDE OF ASSEMBLY TYPICAL ROOF ASSEMBLIES ICE GUARD (&/OR ICE SHEILD) (LABELED ON PLANS AND SECTION DIAGRAM ON SHEET A0.01) WHERE INDICATED ON ROOF PLANS MEMBRANE ROOF. -PREFINISHED UNDERLAYMENT. - ICE BARRIER PREFINISHED -STANDING SEAM _____ 1/4" DENSDECK - ICE BARRIER MEMBRANE ROOF. -STANDING SEAM METAL ROOF UNDERLAYMENT. METAL ROOF - I/4" DENSDECK - SHEATHING PER MEMBRANE ROOF. -SHEATHING PER UNDERLAYMENT STRUCTURAL DWGS CONTINUOUS 3" _____ STRUCTURAL DWGS SHEATHING PER (TYP. U.N.O. -POLYISO INSULATION, STRUCTURAL DWGS (TYP. U.N.O. -REPAIR/RETAIN EXG). R-20 MIN. (TYP. U.N.O. -REPAIR/RETAIN EXG). SHEATHING PER - CLOSED CELL SPRAY REPAIR/RETAIN EXG). STRUCTURAL DWGS FOAM INSULATION, SHEATHING PER **CLOSED CELL SPRAY** (TYP. U.N.O. -STRUCTURAL DWGS REPAIR/RETAIN EXG). FOAM INSULATION, (TYP. U.N.O. -R-38 MIN. REPAIR/RETAIN EXG). - FRAMING PER STRUCTURAL DWGS STRUCTURAL DWGS (TYP. U.N.O. - REPAIR/RETAIN EXG). - FRAMING PER STRUCTURAL DWGS (TYP. U.N.O. -- SEE RCPS. IF EXG, PATCH AND REPAIR (TYP. U.N.O. - REPAIR/RETAIN EXG). REPAIR/RETAIN EXG). - FRAMING PER STRUCTURAL DWGS FRAMING PER STRUCTURAL DWGS DAMAGED AREAS. REPLACE AT AREAS OF (TYP. U.N.O. - REPAIR/RETAIN EXG). (TYP. U.N.O. - REPAIR/RETAIN EXG). FRAMING MODIFICATION. - NO FINISH CEILING. NOTE: SPRAY FOAM MUST BE PROTECTED SEE RCPS (TYP CLG = 5/8") - SEE RCPS. IF EXG, PATCH AND REPAIR NOTE: SPRAY FOAM MUST BE PROTECTED BY 1/2" THERMAL BARRIER, MIN. DAMAGED AREAS. REPLACE AT AREAS BY I/2" THERMAL BARRIER, MIN. OF FRAMING MODIFICATION. PROVIDE ROOF CLASS RATING AS INDICATED ON CODE ANALYSIS. INSULATED METAL ROOF MTI UNSULATED METAL ROOF MT2 INSULATED MEMBRANE ROOF | MI UNINSULATED MEMBRANE ROOF | M2 OUTBOARD INSULATED MEMBRANE ROOF | M3 N/A GYP/UL# RATING N/A GYP/UL# RATING N/A GYP/UL# N/A GYP/UL# RATING N/A GYP/UL# RATING - USED WHERE TOP FLOOR IS OCCUPIED - USED WHERE ATTIC/INTERSTITIAL SPACE IS UNOCCUPIED - USED WHERE TOP FLOOR IS OCCUPIED - USED WHERE TOP FLOOR IS OCCUPIED - USED WHERE TOP FLOOR IS OCCUPIED - INSULATION TO BE PROVIDE AT CLG OF OCCUPIED SPACE BELOW

ICE GUARD WHERE

SHEATHING PER STRUCT

(TYP UNO- REPAIR/RETAIN

INDICATED ON

INSULATION PER

FRAMING PER STRUCT

REPAIR/RETAIN EXISTING)

RATING

ROOF PLANS

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.

FIBERGLASS

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

NEW 25 YR -

SHINGLE

PROVIDE ROOF CLASS RATING AS INDICATED

N/A GYP/UL#

FIBERGLASS

ON CODE ANALYSIS.

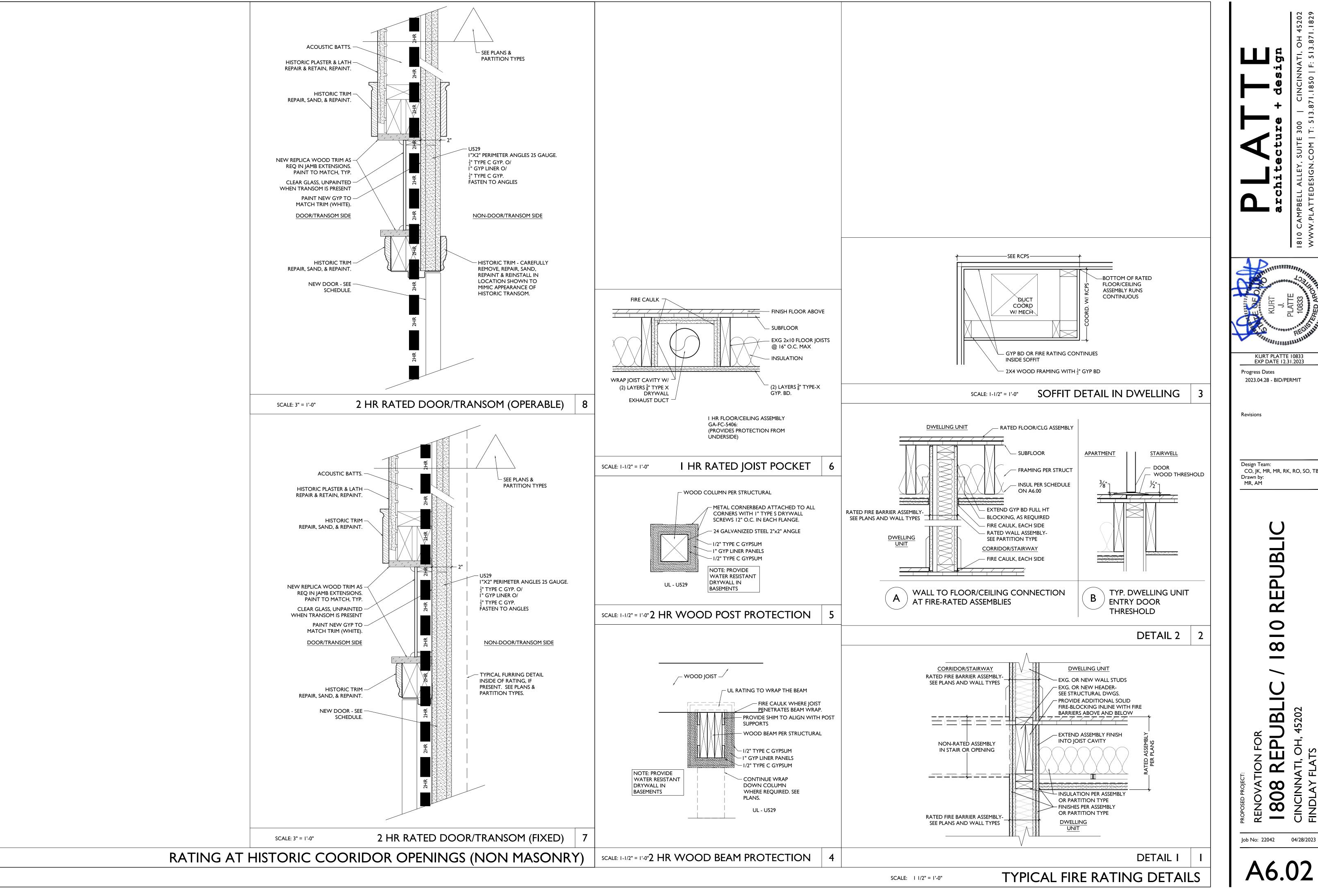
SHINGLE

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ASSEMBLY TYPES

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

A6.0



KURT PLATTE 10833 EXP DATE 12.31.2023 2023.04.28 - BID/PERMIT

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

HDWR M DESCRIPTION				DOOR			DULE						>		
	DORS TO REMAIN	DESCRIPTION	DOOR FINISHES (ALSO SEE A4.00 AND A8.00-8.01) FF DOOR TO BE FACTORY FINISHED AS PART OF NEW STOREFRONT SYSTEM. SEE	NO.	LOCATION		DOOF	L			FRAME	1	HDW	REI	MARKS
H01	EXISTING TO REMAIN ERCIAL DOORS	EXISTING HARDWARE SET TO REMAIN	STOREFRONT TYPES ON A6.12. PT AT EXTERIOR DOORS: SEE EXTERIOR PAINT SCHEDULE ON A8.00-A8.01. AT INTERIOR DOORS: SEE FINISH SCHEDULE ON A4.00.			Į	<u> </u>	ш	I		Σ	I	111	ō	S
	LICIAL DOORS	STORAGE LOCKSET • RATED HARDWARE WHERE REQUIRED	WL WOOD LOOK ST STAINED			WIDTH	HEIGHT	TYPE	FINISH	TYPE	TRANSM	FINISH	ТҮРЕ	RATING	VOTES
H06	DOOR TO BASEMENT/MECHANICAL CLOSET	OUTSIDE KEY LOCK, INSIDE ALWAYS UNLOCKED ACCESSIBLE BY LANDLORD ONLY	FRAME TYPES (ALSO SEE A6.11)	BASEME	NT						<u> </u>			∝	
		• (3) HINGES • WALL/FLOOR STOP	FI HISTORIC FRAME/TRIM TO REMAIN - REPAIR/REPLICATE MISSING PIECES AS REQ	001-1	STAIR	3'-0"	6'-8"	DMI	PT	F2		PT	H06	90 MIN	
W COMM	ON RESIDENTIAL DOORS		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	FIRST FL	OOR STAIR ENTRY	EXG	EXG	EXG	PT	FI	TR4	PT	HI0		IA,
H09	FIXED DOOR	FIX DOOR CLOSED BLANK ESCUTCHEON PLATE ON EXPOSED SIDE PROVIDE WEATHER STRIPPING WHERE DOOR IS EXPOSED TO THE	F5 NEW WOOD FRAME - SEE DTLS 7-8/A6.11 - TRIM TO MATCH EXG ADJ. HISTORIC TRIM SF PART OF STOREFRONT SYSTEM - SEE A6.12	100-1	CORRIDOR	EXG	EXG	EXG	PT	FI	TR4	PT	H09		
		EXTERIOR. EGRESS LOCKSET W/ ELECTRONIC ACCESS CONTROL	NOTE: FRAMES TO BE PAINTED, UNO. SEE FINISH SCHEDULE AND EXTERIOR PAINT SCHEDULE	100-3	CORRIDOR BASEMENT	EXG EXG OPG.	EXG OPG.	EXG	PT	FI	TR4	PT	H09		IB, 2,
		OUTSIDE ALWAYS LOCKED, INSIDE ALWAYS UNLOCKED LEVER HANDLES	FOR MORE INFORMATION.	100-4	STAIR	V.I.F	V.I.F	DWI	PT	F4		PT	H06		4
HI0	DOOR FROM STAIR/CORRIDOR TO EXTERIOR	ELECTRONIC ACCESS CONTROL (INTERCOM OR KEY FOB) ELECTRIC STRIKE I LOCKSET	TRANSOM TYPES (ALSO SEE A6.11)	101-1	UNIT ENTRY	EXG	EXG	EXG	PT	FI	TR4	PT	HR01A		IA,
		I-1/2 PAIR HINGES (I) CLOSER WALL/FLOOR STOP	TRI NEW HOLLOW METAL FRAMED TRANSOM TR2 HISTORIC TRANSOM TRIM & GLAZING TO REMAIN. REPAIR/REPLICATE MISSING PIECES AS	101-2	BATHROOM	EXG OPG V.I.F.	V.I.F.	DWI	PT	FI		PT	HR02		ID, IE
		WEATHER SEALS STORAGE LOCKSET	REQ TR3 NEW WOOD TRANSOM TRIM TO MATCH EXG ADJACENT HISTORIC TRIM OF DOOR -	101-3	CLOSET	2'-6" EXG	7'-6" EXG	DWI	PT PT	F5 FI	 TR4	PT PT	HR04 HR04		1A, 4,
H10AB	DOOR FROM STAIR/CORRIDOR TO	RATED HARDWARE OUTSIDE KEY LOCK, INSIDE ALWAYS UNLOCKED (3) HINGES	WITH NEW TEMPERED GLAZING TR4 HISTORIC TRANSOM TRIM TO REMAIN. REPAIR/REPLICATE MISSING PIECES AS REQ'D.	101-5	CLOSET	EXG	EXG	EXG	PT	FI	TR4	PT	H01		IA
ПІОАБ	ATTIC	• (i) CLOSER • SMOKE SEAL	INSTALL NEW CLEAR GLAZING. SF NEW TRANSOM TO BE PART OF STOREFRONT SYSTEM. SEE STOREFRONT TYPES.	101-6	BEDROOM	2'-10"	7'-6"	DWI	PT	F5		PT	HR02		
W PRIVAT	E RESIDENTIAL DOORS	• WALL/FLOOR STOP		200-I	CORRIDOR	EXG	EXG	EXG	PT	FI	TR4	PT	H09		IB, 2,
		ENTRY LOCKSET RATED HARDWARE I LOCKSET		200-2	CORRIDOR	EXG	EXG	EXG	PT	FI	TR4	PT	H09		IB, 2,
		• THUMB TURN DEADBOLT. • (3) HINGES									1 1 1 1				
HR01	RESIDENTIAL UNIT ENTRY DOOR	(Í) SPRING CLOSER WIDE ANGLE VIEWER WALL/FLOOR STOP		200-3	CORRIDOR	EXG OPG	EXG OPG	EXG	PT	F5		PT	H09		IB, IC
		SMOKE SEAL DOOR SWEEP	SCHEDULE NOTES	201-1	UNIT ENTRY	EXG OPG V.I.F.	V.I.F.	DMI	PT	FI	TR4	PT	HR01	90 MIN	IE, 2
		RUBBER THRESHOLD (LOW PROFILE) ENTRY LOCKSET		201-2	MECHANICAL BEDROOM	3'-0" 2'-10"	7'-6" 7'-6"	DWI	PT PT	F5 F5		PT PT	HR03 HR02		
		• I LOCKSET • THUMB TURN DEADBOLT. • (3) HINGES	I. EXISTING HISTORIC OPENING: I.A. EXISTING HISTORIC DOOR (& TRANSOM, IF APPLICABLE) TO REMAIN IN SITU. REPAIR	201-4	CLOSET/ LAUNDRY	2'-6"	7'-6"	DWI	PT	F5		PT	HR04		4
HR01A	RESIDENTIAL UNIT ENTRY DOOR (EXTERIOR)	(i) SPRING CLOSER WIDE ANGLE VIEWER	AS REQ. CONTRACTOR TO PROVIDE ALLOWANCE FOR DOOR REPAIR FOR ALL EXG. DOORS TO REMAIN.	201-5	BATHROOM	EXG OPG	- EXG OPG - V.I.F.	DWI	PT	FI		PT	HR02		ID, IE
		WALL/FLOOR STOP WEATHER SEALS DOOR SWEEP	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	THIRD F	LOOR	V.I.I.	V.I.I.								
		RUBBER THRESHOLD (LOW PROFILE) PRIVACY LOCKSET	PREVIOUS LOCATION AND NEW WORK PLANS FOR NEW LOCATION. I.D. OPENING TO HAVE RELOCATED HISTORIC FRAME/TRIM. SEE EXISTING PLANS FOR	300-I	CORRIDOR	EXG	EXG	EXG	PT	FI	TR4	PT	H09		IB, 2,
HR02	TYPICAL BEDROOM AND BATHROOM	• (I) LOCKSET • (3) HINGES	PREVIOUS LOCATION AND NEW WORK PLANS FOR NEW LOCATION. I.E. NEW OPERABLE DOOR IN HISTORIC OPENING.	300-2	CORRIDOR	EXG	EXG	EXG	PT	F5		PT	H09		IB, IC
		WALL/FLOOR STOP WOOD "T" THRESHOLD	I.F. HISTORIC POCKET DOORS TO BE RESTORED TO ORIGINAL FUNCTION AND OPERATION.	301-1	UNIT ENTRY	EXG OPG	EXG OPG - V.I.F.	DMI	PT	FI	TR4	PT	HR01	90 MIN	IE, 2
HR03	DOOR TO MECHANICAL CLOSET	 STORAGE LOCKSET OUTSIDE KEY LOCK, INSIDE ALWAYS UNLOCKED ACCESSIBLE BY LANDLORD ONLY 	2. EXISTING TRANSOM TO BE INFILLED BEHIND WITH GYP. BD. TO MAINTAIN FIRE RATING. SEE DETAILS ON A6.03.	301-2	MECHANICAL	V.I.F. 3'-0"	7'-6"	DWI	PT	F5		PT	HR03		
HKU3		(3) HINGES WALL/FLOOR STOP WOOD "T" THRESHOLD	 PROVIDE HOLD OPEN FOR THIS DOOR - SEE HARDWARE SCHEDULE. PROVIDE HINGES THAT ALLOW FOR EASY DOOR REMOVAL DURING LAUNDRY UNIT 	301-3	BEDROOM	EXG	EXG	EXG	PT	FI		PT	HR02		IA,
HR04	SINGLE DOOR TO CLOSET/STORAGE/LAUNDRY/	PASSAGE LOCKSET • (3) HINGES	INSTALLATION & MAINTENANCE. 5. DOOR TO BE UNDERCUT. SEE MECHANICAL DRAWINGS.	301-4	CLOSET	2'-6"	7'-6"	DWI	PT	F5		PT	HR04		
	BEDROOM EGRESS	WALL/FLOOR STOP CLOSET PULLS DUMMY LEVER HANDLES	6. DOOR(S) TO BE FIXED IN PLACE AND INOPERABLE.	301-5	LAUNDRY	EXG OPG V.I.F.	V.I.F.	DWI	PT	FI	TR4	PT	HR04		IE, 4,
HR04A	DOUBLE <u>SWINGING</u> DOOR TO CLOSET/STORAGE	DUMMY LEVER HANDLES BALL CATCHES 3 PAIR HINGES	7. PROVIDE VIEW HOLE AT 48" A.F.F., CENTERED IN DOOR.	301-6	BATHROOM	EXG OPG V.I.F.	EXG OPG - V.I.F.	DWI	PT	FI		PT	HR02		ID, IE
NERAL HA	ARDWARE NOTES:			FOURTH		FVC	EV.C	F)/C		T			1100		10.2
ALL HARDW		N OF EGRESS ALWAYS WITHOUT KNOWLEDGE, KEY OR TIGHT		400-1	CORRIDOR	EXG EXG	EXG	EXG	PT PT	FI F5	TR4	PT PT	H09		IB, 2,
XTERIOR H	INGES, KICK PLATES TO BE US32D, INTER	STEEL AND POWDER COAT TO MATCH. EXIT DEVICES, RIOR HINGES, LOCKSETS, WALL STOPS US26D, DOOR CLOSERS		401-1	UNIT ENTRY	EXG OPG	- EXG OPG -	DMI	PT	FI	TR4	PT	HR01	90 MIN	IE, 2
ALL HARDW	DER COAT TO MATCH. ARE TO BE AS SPECIFIED OR APPROVED ARE BASED ON BEST CYLINDRICAL CREATERS.			401-2	MECHANICAL	V.I.F. 3'-0"	V.I.F. 7'-6"	DWI	PT	F5		PT	HR03		
COORDIN (ND SERIE	IATE KEYING REQUIREMENTS WITH OW S), SARGENT (10 LINE). KEY SYSTEM - PRC	ADE I (MORTISE LOCK FOR TOILETS WITH INDICATOR). NER. APPROVED MANUFACTURERS: BEST (9K3 SERIES), SCHLAGE DVIDE MASTER SYSTEM (KEY INTO OWNER'S EXISTING SMALL		401-3	BEDROOM	2'-10"	7'-6"	DWI	PT	F5		PT	HR02		5
B. EXIT DEVI	KEY SYSTEM), 5 MASTER KEYS, 3 CHANGE CES ARE BASED ON PRECISION 2100 SERI DN DUPRIN (98 SERIES)	EKEYS PER CYLINDER. ES GRADE I. APPROVED MANUFACTURERS: PRECISION (2100	GENERAL NOTES	401-4	CLOSET/ LAUNDRY	2'-6"	7'-6"	DWI	PT	F5		PT	HR04		
C. DOOR CL		IES GRADE I. PROVIDE WITH FULL COVER. APPROVED 40XP SERIES).	THIS IS A HISTORIC TAX CREDIT PROJECT WITH SENSITIVE HISTORIC MATERIALS,	401-5	BATHROOM	EXG OPG V.I.F.	EXG OPG - V.I.F.	DWI	PT	FI		PT	HR02		ID, IE
	•	I-1/2", DOORS WIDER THAN 3 FEET TO BE 5" X 4-1/2". R DOORS UP TO 7'6". PROVIDE 4 HINGES FOR DOORS TALLER	INCLUDING DOORS & TRIM. DO NOT REMOVE ANY HISTORIC DOORS OR TRIM UNLESS INDICATED IN THESE DRAWINGS & IN THE SHPO NARRATIVE.	FIFTH FI		EXG OPG	EVC OBC								
THAN 7'6'			DOOR FRAMES	501-1	UNIT ENTRY	V.I.F.	V.I.F.	וויוט	PT	FI		PT	HR01	90 MIN	IE
COORDINA	te electronic access control req		A. FURNISH AND INSTALL ALL DOOR FRAMES AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH FINAL SHOP DRAWINGS AND MANUFACTURER'S DATA AND	501-2	CLOSET BEDROOM	5'-0" 2'-10"	7'-6"	DWI	PT PT	F5 F5		PT PT	HR04A HR02		5
PROVIDE IN	FERCHANGEABLE CORES		INSTRUCTIONS. B. SUBMIT SHOP DRAWINGS FOR FABRICATION AND INSTALLATION OF FRAMES. INCLUDE	501-4	CLOSET/ LAUNDRY	2'-6"	7'-6"	DWI	PT	F5		PT	HR04		
			DETAILS OF EACH FRAME TYPE, CONDITIONS AT OPENINGS, DETAILS OF CONSTRUCTION, LOCATION, AND INSTALLATION REQUIREMENTS OF FINISH HARDWARE AND	501-5	BATHROOM	EXG OPG		DWI	PT	FI		PT	HR02		ID, IE
			REINFORCEMENTS, AND DETAILS OF JOINTS AND CONNECTIONS. SHOW ANCHORAGE AND ACCESSORY ITEMS. PROVIDE SCHEDULE OF FRAMES USING SAME REFERENCE FOR			V.I.F.	V.I.F.					<u> </u>			
			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. 												
			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 ACCORDANCE												
			WITH FINAL SHOP DRAWINGS AND MANUFACTURER'S DATA AND INSTRUCTIONS.												
			G. SUBMIT DOOR MANUFACTURER'S PRODUCT DATA SPECIFICATIONS AND INSTALLATION 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, AND 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.												
			A THE REAL PROPERTY HERE DESCRIPTION OF THE PARTY OF THE												
			J. SEE PLANS FOR REQUIRED FIRE RATINGS.K. FIT DOORS TO FRAMES WITH MINIMUM UNIFORM CLEARANCES AND BEVELS. DOORS SHALL												
			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 AFFECTED BY FITTING AND MACHINING. PROVIDE DOOR CLEARANCES SO THAT												
			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												

PLATTE architecture + design

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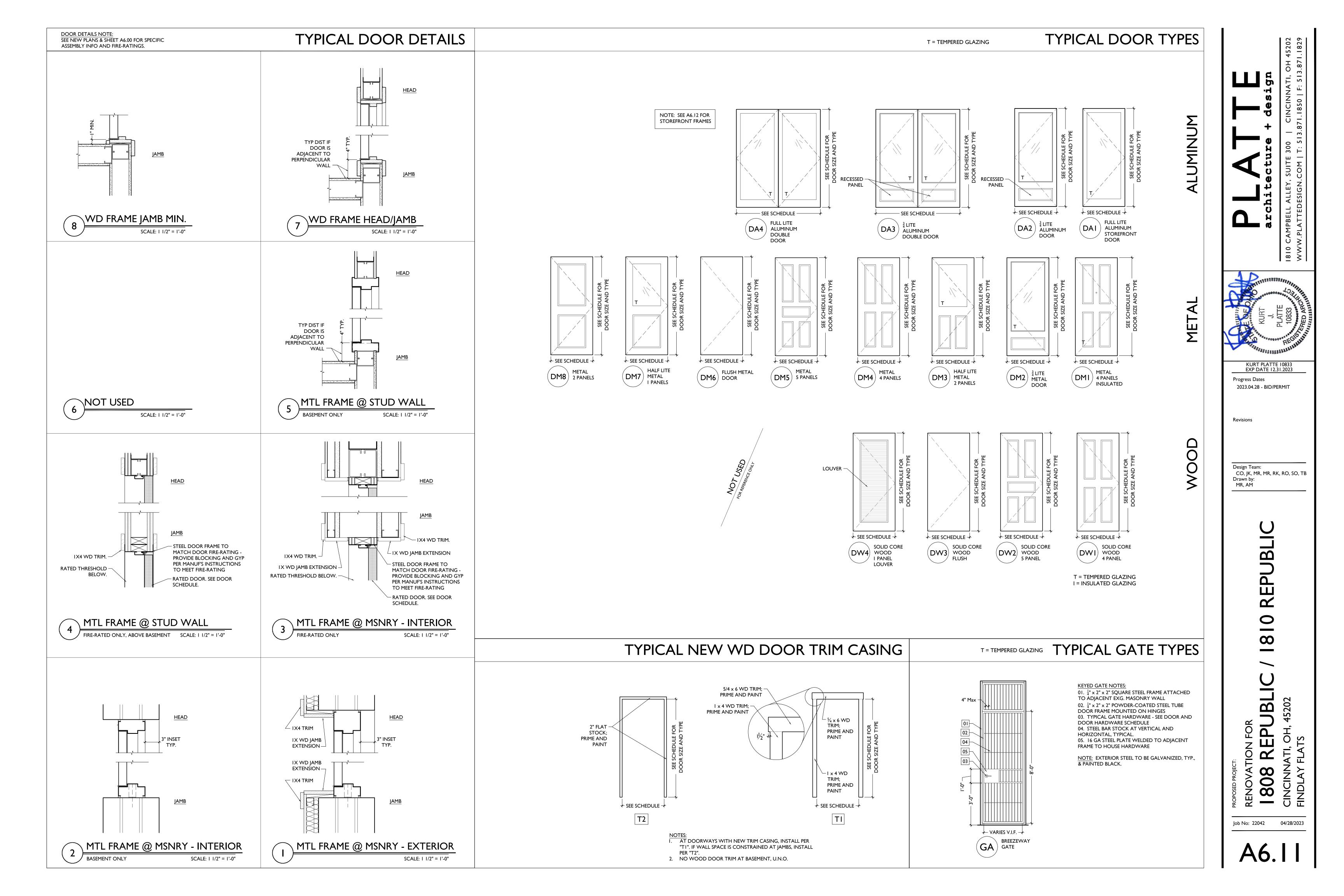
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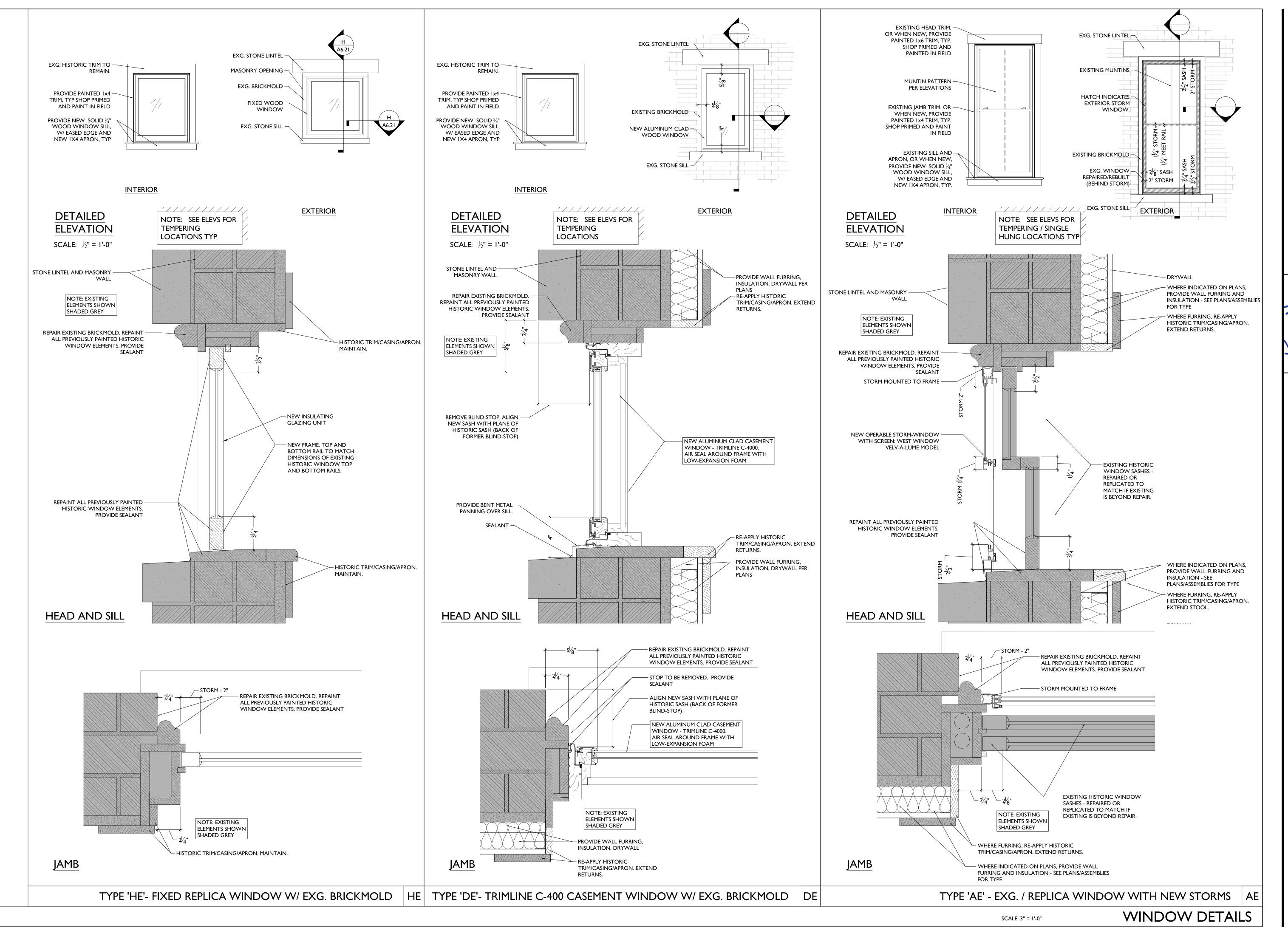
Design Team:
CO, JK, MR, MR, RK, RO, SO, TB
Drawn by:
MR, AM

I 808 REPUBLIC / 1810 REPUBLIC CINCINNATI, OH, 45202

Job No: 22042 04/28/2023

A6.10





architecture + design

CAMPBELL ALLEY, SUITE 300 | CINCINNATI, OH 4

KURT PLATTE 10833
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Revisions

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

PUBLIC / 1810 REPUBLIC

RENOVATION FOR

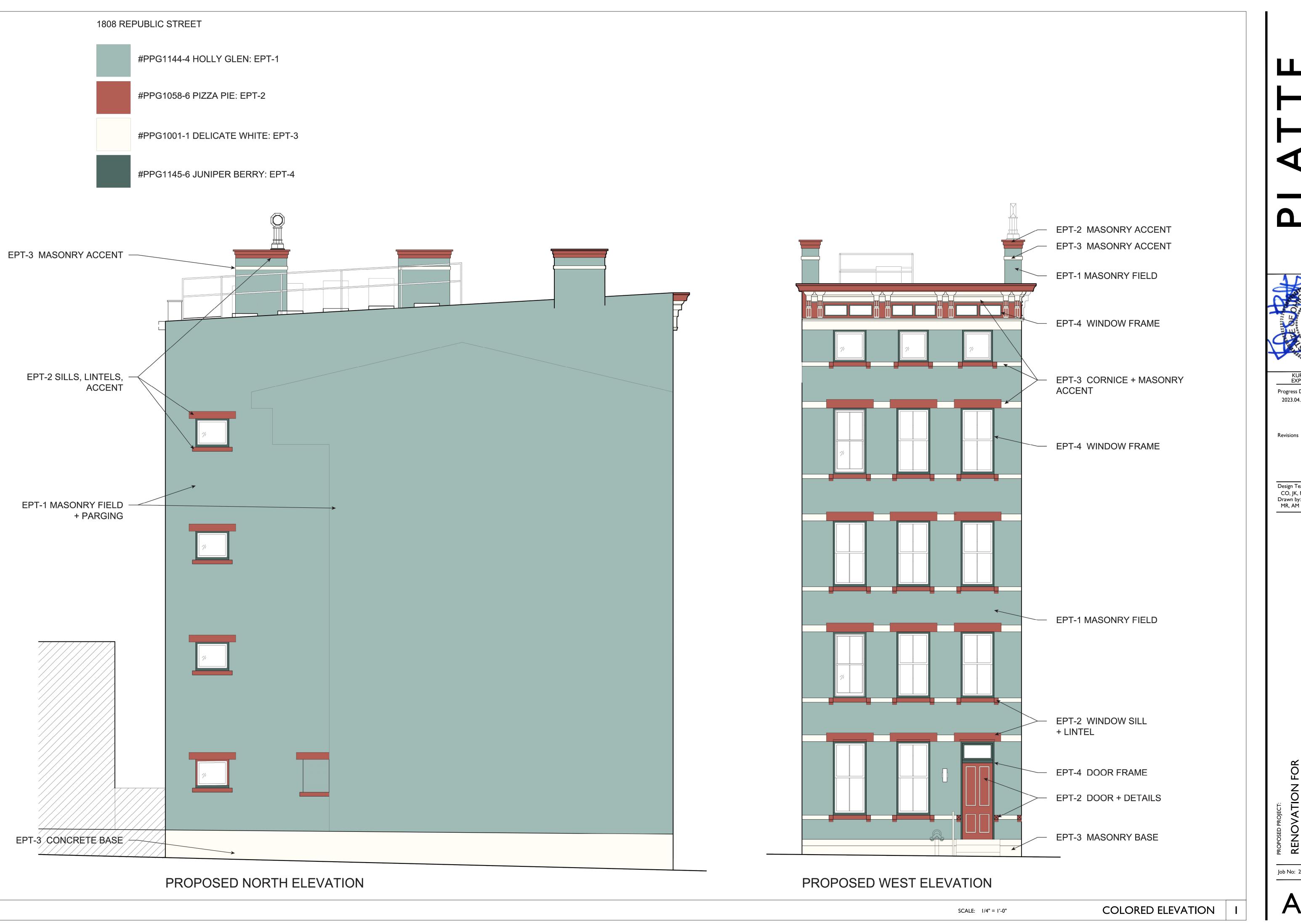
RENOVATION FOR

1808 REPUBLI

CINCINNATI, OH, 45202

FINDLAY FLATS

A6.20



KURT PLATTE 10833 EXP DATE 12.31.2023

2023.04.28 - BID/PERMIT

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

RENOVATION FOR I 808 REPUBLIC



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

REPUBLIC 0|8| RENOVATION FOR I 808 REPUBLIC

M. Enterprise Green Communities: 1. Green Communities Checklist 2020 2. Green Communities Criteria 2020 N. ENERGY STAR Qualified Homes Program Requirements 1. https://www.energystar.gov/partner_resources/residential_new/homes_prog_reqs/nationa 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) 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 intended to meet this requirement. EPP criteria are as follows: 1. Ingredient Transparency for Material Health Requirement – Publicly disclosed where content is characterized and screened using health hazard lists or restricted substances lists to 1,000 ppm 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 paints, coatings, primers, wallpaper, adhesives, sealants, flooring, insulation, and composite wood under criterion 6.4. 5. Environmentally Responsible Material Requirement – see specific requirements for embodied emissions for concrete, steel, insulation, roofing, paving, and non-composite wood under criterion 6.5 6. Regional Materials Requirement – Extracted, manufactured, and fabricated (all processes) within 500-mile crow-fly distance of site. QUALITY ASSURANCE 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 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. . Perform Work without use of CFC based refrigerants in HVAC building systems. G. Perform ventilation Work in accordance with ASHRAE 62. H. Develop and implement construction indoor air quality management plan including the following: Comply with minimum requirements of SMACNA IAQ. 2. Protect stored and installed absorptive materials from moisture damage. 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 material with secured waterproof sheeting. 3. Protect HVAC equipment during construction. a. Shut down return side of HVAC system whenever possible during heavy 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. EGC 5.1b Building Performance Standard (mandatory)

ERI Option

Green certifications.

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

Conduct compartmentalization of dwelling units via air infiltration no greater than 0.30 CMF50 for

CFM50/sf compared to pre-retrofit conditions, following procedures in ANSI/RESNET/ICC Std. 380.

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

3. Grade II batt insulation floors if they fill the full width and depth of the floor cavity, even when

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

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.)

1. Upon substantial completion and prior to occupancy, the Green Verifier will conduct a visual Final

2. Testing - Third-party Testing is to be scheduled and conducted in conjunction with the final

4. Air Infiltration Test (Blower door Test) – Mandatory – Measures air leakage through unit

sealed, caulked, gasketed, or weather-stripped to minimize envelope leakage:

enclosure such as exterior walls, demising walls, ceilings, chases, etc. Minimum envelope

018113

leakage where applicable. Following areas of building envelope and demising walls shall be

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

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

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

b. Joints between walls and foundation; between conditioned spaces and attics, demising

necessary due to incomplete work shall be back-charged to the Contractor.

demising unit enclosures. Recommended areas for sealing include:

Joints between duct boots and drywall and floor finishes.

c. Plumbing and attic access panels.

Joints around exterior doors and windows.

walls, crawl spaces and garage.

used as return ducts.

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

Inspection to verify green requirements incorporated in the project. The contractor shall notify the

shall provide access to each unit and cooperate with conducting of the test. Additional inspections

Green Rater at least four (4) weeks prior to the anticipated date for such inspection. Contractor

Substantial Rehab per square feet of dwelling unit enclosure area or a 20% improvement of

Insulation installed as part of the rehab must achieve the following:

(≥ R-3 in Climate Zones 1 to 4, ≥ R-5 in Climate Zones 5 to 8).

Mandatory Mid-Construction Pre-Drywall Thermal Bypass Inspection:

1. Grade I installation per ANSI/RESNET/ICC Std. 301.

compression occurs due to excess insulation.

recent checklist version available at time of permit).

Final Verification and Inspection Testing

with conducting of the test.

Findlay Flats Russ Alley

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 from unit to unit, and unit to corridor. 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 ClearChem. GS-11 paints comply with (excluding wall 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 sealants. While not common, they may provided by the most orthophthalate sealants recent version of plasticizers. Use 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 exposures lower through a more laundry rooms, bathrooms, List-free kitchens/kitchenettes, or controlled environment during finishing. If possible, use a floor system that can utility rooms. [3 points] Fluid applied finish floors feature mechanical attachments (e.g., If using carpet, 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 Alternative insulation products include recycled cotton, cellulose, wool, and wool batts are used, these not include any blown fiberglass. All major U.S. must be formaldehydetwo-part spray manufacturers of residential fiberglass polyurethane foam. [2 points] batt insulation have transitioned to formaldehyde-free products. Some

Findlay Flats Russ Alley 018113 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 critical root zone.

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) 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)

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

EGC 3.6 Efficient Irrigation and Water Reuse (mandatory)

When new irrigation system is provided, or existing system is modified: 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. 6. Install timer/controller that activates the valves for each watering zone at the best time of day to 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 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 wood is PMDI, which is made with (have no added urea formaldehyde). isocyanates. PMDI is expected to be a lower hazard during use than formaldehyde, but more information is needed. Preferable alternatives would be more than half bio-based (e.g., binders

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

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.

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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

that are at least 50% soy) with full

for health hazards.

content disclosure, so they can be vetted

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

- 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)

road, or parking lot.

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)

Project Name:	Number of Units:	Perr	nit Date: _		
Project Address:	City:		_ State: _		
Thermal Enclosure System		Must Correct	Builder Verified ³	Rater Verified ⁴	N/A
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 &	-				
1.3 All insulation achieves Grade I install. per ANSI / RESNE	T / ICC Std. 301. Alternatives in Footnote 6. 6,7				
1.4 Prescriptive Path: Window-to-wall ratio ≤ 30%. ⁸					1
1.5 Heated plenums in unconditioned space or ambient cond					
1.5.1 Sides of plenum are an air barrier and insulated to CZ 7; ≥ R-9.5ci in CZ 8, AND;				_	١
1.5.2 Insulation at top of plenum meets or exceeds the R of Table 502.2(1) of 2009 IECC, AND;	-value for mass floors from the "All Other" column				ı
1.5.3 Bottom of plenum must have at least R-13 insulation	n. ¹⁰				
1.6 Garages with space heating must meet the following requ	irements: 9				
1.6.1 Insulation on above grade walls and walls on the fil in CZ 7; ≥ R-9.5ci in CZ 8, AND ;	st story below grade ≥ R-5ci in CZ 5-6; ≥ R-7.5ci		_		
1.6.2 Garage ceiling insulation meets or exceeds the R-v of Table 502.2(1) of 2009 IECC.	value for mass floors from the "All Other" column				
2. Fully-Aligned Air Barriers 11 At each insulated location	below, a complete air barrier is provided that is ful	ly aligned	as follows	S:	
<u>Ceilings</u> : At interior or exterior horizontal surface of ceiling ins Climate Zones 4-8. Also, at exterior vertical surface of ceiling of the insulation in every bay or a tabbed baffle in each bay w	sulation in Climate Zones 1-3; at interior horizontal insulation in all climate zones (e.g., using a wind l	surface o	of ceiling in extends t	sulation ir	
2.1 Dropped ceilings / soffits below unconditioned attics, char	se / dead space, and all other ceilings.				
Walls: At exterior vertical surface of wall insulation in all clima	te zones; also at interior vertical surface of wall in	sulation ir	Climate 2	Zones 4-8	. 13
2.2 Walls behind showers, tubs, staircases, and fireplaces.					
2.3 Architectural bump-outs, dead space, and all other exteri	or walls.				
Floors: At exterior vertical surface of floor insulation in all climincluding supports to ensure alignment. Alternatives in Footne	nate zones and, if over unconditioned space, also obtes 15 & 16. 14, 15, 16	at interior	horizontal	surface	
2.4 Floors above garages, floors above unconditioned space:	s, 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-ca inside face of the exterior wall below and is ≥ R-21 in CZ					
3.2 For insulated ceilings with attic space above, attic access equipped with durable ≥ R-10 cover. ¹⁸					
3.3 Insulation beneath attic platforms (e.g., HVAC platforms,	walkways) ≥ 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 insulate 502.2(1) of the 2009 IECC and aligned with the thermal I	ed to ≥ R-5 at the depth specified by Table	_		_	
3.5 For elevated concrete slabs in CZ 4-8 (i.e., podiums and floor edges) 100% of the slab edge insulated to ≥ R-5. For full height of the podium wall. Alternatives in Footnote 21	projected balconies, but not intermediate slab or podiums, insulation must be installed for the	_	-		
3.6 For elevated concrete slabs in CZ 4-8 (i.e., podiums, but meets the U-factor specified in Table 502.1.2 of the 2009 above the slab, and for 'All Other' when common space in	IECC for Group R when dwelling units are		_		
3.7 At above-grade walls and rim / band joists separating co	nditioned from unconditioned space, one of the fol	lowing op	tions used	23,26	
3.7.1 Continuous rigid insulation, insulated siding, or cor ≥ R-3 in CZ 1-4; ≥ R-5 in CZ 5-8 ^{24, 25, 26, 27} , OR ;	nbination of the two is:		0		
3.7.2 Structural Insulated Panels OR; Insulated Concrete	e Forms 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 including	ng all of th	ne Items b	elow: ^{26,29}	_
					_
3.7.3a Corners insulated ≥ R-6 to edge ³⁰ , AND ;					
3.7.3a Corners insulated ≥ R-6 to edge ³⁰ , AND ; 3.7.3b Headers above windows & doors insulated ≥ R-5 for all other assemblies (e.g., with 2x6 fra					

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National Rater Field Checklist

	r Sealing (Unless otherwise noted below, "sealed" indicates the use of caulk, foam, or valent material.)	Must Correct	Builder Verified ³	Rater Verified ⁴	N/A ⁵
	following items must be verified in dwelling units and common spaces to reduce air leakage to exterion inditioned spaces.	or, adjace	nt buildin	gs, or	
	Ducts, flues, shafts, plumbing, piping, wiring, exhaust fans, & other penetrations to unconditioned space realed, with blocking / flashing as needed.				-
	Recessed lighting fixtures adjacent to unconditioned space ICAT labeled and gasketed. Also, if in resulated ceiling without attic above, exterior surface of fixture insulated to ≥ R-10 in CZ 4-8.				
	Continuous top plate or blocking is at top of walls adjoining unconditioned space including at balloon- ramed parapets, and sealed.				_
(Orywall 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 lrywall and top plate or to the seam between the two from the attic above.	_			_
4.5 I	Rough opening around windows & exterior doors sealed. 33				-
	Assemblies that separate attached garages from occupiable space sealed and, also, an air barrier installed, sealed, and aligned with these assemblies. 34				
	Doors adjacent to unconditioned space (e.g., attics, garages, basements) or ambient conditions made substantially air-tight with doorsweep and weatherstripping or equivalent gasket.				_
	attic access panels, roof hatches and drop-down stairs are gasketed (i.e., not caulked) or equipped with lurable covers that are gasketed. 18				
The	ollowing items must be additionally verified in dwelling units, to reduce air leakage between condition	ned space	es.		
	Doors serving as a unit entrance from a corridor/stairwell made substantially air-tight with doorsweep and veatherstripping or equivalent gasket.				_
	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		1		_
á	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	0	ı		
HVA	C System ³⁷		M	Rater	
	eating & Cooling Eqpt. – Complete Path A - Dwelling Unit HVAC Grading OR Path B – Dwelling Unit HV missioning 38	/AC	Must Correct	Verified ⁴	N/A ⁵
Path	5a.1 Blower fan volumetric airflow is Grade I or II per ANSI / RESNET / ACCA Std. 310				
A 39	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				
Path	5b.1 HVAC manufacturer & model number on installed equipment matches either of the following (check ☐ National HVAC Design Report (4.6-4.9 & 4.25-4.26) ☐ Written approval received from designer	(box): ⁴¹			-
В	5b.2 External static pressure measured by Rater at contractor-provided test locations and documented by Return-Side External Static Pressure: IWC Supply-Side External Static Pressure:	pelow: ⁴²			
	rescriptive Path: Heating and cooling equipment serving dwelling units and common spaces meet the effic vels specified in the Exhibit X. Electric resistance heating is not installed in dwelling units.				
	RI Path: Heating and cooling equipment serving common spaces, but <u>not</u> serving dwelling units, meet the vels specified in the Exhibit X. See Exhibit X for restrictions on electric resistance heating.	efficiency			_
le 5.5 E	· · · · · · · · · · · · · · · · · · ·				
5.5 E le 5.6 N	ational HVAC Functional Testing Checklist(s) collected prior to certification, with all HVAC systems in the beolect fully documented. Exception: Where credentialed HVAC Contractor(s) are completing the National Hunctional Testing Checklist, the checklist is not required to be collected for the systems they verify. 43				
5.5 E 5.6 N p F 5.7 F	ational HVAC Functional Testing Checklist(s) collected prior to certification, with all HVAC systems in the broject fully documented. Exception: Where credentialed HVAC Contractor(s) are completing the National Hunctional Testing Checklist, the checklist is not required to be collected for the systems they verify. 43 ater has verified that Functional Testing Agent(s) ("FT Agent(s)") completing the National HVAC Functional hecklist(s), hold(s) one of the required credentials and are listed on the appropriate online directory. 43 redential(s):	VAC	0	0	_
5.5 E 5.6 N p 5.7 F C C	ational HVAC Functional Testing Checklist(s) collected prior to certification, with all HVAC systems in the broject fully documented. Exception: Where credentialed HVAC Contractor(s) are completing the National Hunctional Testing Checklist, the checklist is not required to be collected for the systems they verify. 43 atter has verified that Functional Testing Agent(s) ("FT Agent(s)") completing the National HVAC Functional hecklist(s), hold(s) one of the required credentials and are listed on the appropriate online directory. 43 tendentials (s):	VAC al Testing Must	LP	□	
5.5 E 5.6 N p F 5.7 F C C F	ational HVAC Functional Testing Checklist(s) collected prior to certification, with all HVAC systems in the broject fully documented. Exception: Where credentialed HVAC Contractor(s) are completing the National Hunctional Testing Checklist, the checklist is not required to be collected for the systems they verify. 43 ater has verified that Functional Testing Agent(s) ("FT Agent(s)") completing the National HVAC Functional hecklist(s), hold(s) one of the required credentials and are listed on the appropriate online directory. 43 redential(s): T Agent Name(s): Toment Controls All heating and cooling systems serving a dwelling unit have thermostatic controls within the dwelling unit	VAC al Testing Must		□	
5.5 Equi	ational HVAC Functional Testing Checklist(s) collected prior to certification, with all HVAC systems in the troject fully documented. Exception: Where credentialed HVAC Contractor(s) are completing the National Hunctional Testing Checklist, the checklist is not required to be collected for the systems they verify. 43 ater has verified that Functional Testing Agent(s) ("FT Agent(s)") completing the National HVAC Functional hecklist(s), hold(s) one of the required credentials and are listed on the appropriate online directory. 43 redential(s): T Agent Name(s): Dement Controls	VAC al Testing Must Correct	LP	□ Rater Verified ⁴	N/A ⁵

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National Rater Field Checklist ¹

Findlay Flats Russ Alley

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

ENERGY STAR Multifamily New Construction, Version 1 / '	1.1 / 1.2	? (Rev.	. 01)	
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.		_	_	_
6. Duct Quality Installation - Applies to Heating, Cooling, Ventilation, Exhaust, & Pressure Balancing I 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) p balanced (e.g., using transfer grilles, jump ducts, dedicated return ducts, undercut doors) to achieve a Rameasured pressure differential ≥ -5 Pa and ≤ +5 Pa with respect to the main body of the dwelling unit whandlers are operating. See Footnote 46 for test configuration. 46	iter-			_
6.3 All supply and return ducts in unconditioned space, including connections to trunk ducts, are insulated to	: R-6. ⁴⁷			
6.3.1 Prescriptive Path: Dwelling unit ductwork meets the location and insulation requirements specified in t ENERGY STAR Multifamily Reference Design.	ne			_
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 F	Rater-		0	
measured pressure difference between the space containing the air handler and the conditioned space air handler running at high speed, is \leq 5 Pa. For systems > 1 ton, increase by 1 Pa per half ton. One or two ducted returns 36 : The greater of \leq 4 CFM25 per 100 sq. ft. of CFA or \leq 40 CFM. Three or more ducted returns 36 : The greater of \leq 6 CFM25 per 100 sq. ft. of CFA or \leq 60 CFM.				
 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. 6.4.2 Final: Tested per allowances below, with the air handler & all ducts, building cavities used as ducts, d & 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 F 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. 	Rater-		0	_
 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. 6.4.2 Final: Tested per allowances below, with the air handler & all ducts, building cavities used as ducts, d & 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 F 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. 	Rater- e, with the		0	0
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. 6.4.2 Final: Tested per allowances below, with the air handler & all ducts, building cavities used as ducts, d & 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 F 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.	Rater- ce, with the			
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. 6.4.2 Final: Tested per allowances below, with the air handler & all ducts, building cavities used as ducts, d & 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 F 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. 6.5 Townhouses only: Rater-measured duct leakage to the outside the greater of ≤ 4 CFM25 per 100 sq. ft. of CFM25. 48,52 6.6 Common Space: Supply, return, and exhaust ductwork and all plenums are sealed at all transverse joints,	Rater- ce, with the	0	0	
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. 6.4.2 Final: Tested per allowances below, with the air handler & all ducts, building cavities used as ducts, d & 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 F 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. 6.5 Townhouses only: Rater-measured duct leakage to the outside the greater of ≤ 4 CFM25 per 100 sq. ft. of 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.	Rater- ce, with the CFA or ≤	0	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:

REPUBL 0 ∞ UBL

National Rater Field Checklist

			New Construction, Version 1 / 1.1 / 1.2			
		non Space Mechanical Ventilation		Must Correct	Rater Verified ⁴	N/A 5
7.1 Ventilation n □ National I			oment matches either of the following (check box): 41 Written approval received from designer			-
		tion rate is within either ± 15 CFM or by ASHRAE 62.2-2010. 54	r ±15% of dwelling unit design values (2.7), and meets or		0	-
		te is within either ± 15 CFM or ±15% by ASHRAE 62.1-2010 (2.8). ⁵⁵	of common space design values (2.9), and meets or			-
	g., a label is		control installed and also labeled if its function is not ch, but not for a switch that's on the ventilation	П	0	0
			ing unit HVAC system, unless controls are installed to to restrict intake when not in use (e.g., motorized			_
7.6 If located in	the dwelling	unit, system fan rated ≤ 3 sones if	intermittent, ≤ 2 sones if continuous, or exempted. ⁵⁶			-
7.7 If system uti	lizes the dw	elling unit HVAC fan, then the instal	lled fan type is ECM / ICM (4.12), or the controls will hours 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					_	_
	welling-unit mechanical ventilation system, then they are , they are installed with NEMA™ Premium Motors.		_	_		
7.10 Air inlet loc	ations (Con	plete if ventilation air inlet locations	s were installed (2.22, 2.23); otherwise check "N/A"): 58,59	-	-	
7.10.1 Inlet(s	not from attic, crawlspace, garage, or adjacent dwelling		_	-		
7.10.2 Inlet(s)	stretched-string distance from known contamination ryer exhausts and sources exiting the roof. 60			-		
8. Local Mecha	anical Exh	aust (National HVAC Design Repor	t Item # indicated in parenthesis)	•	<u>'</u>	
		I exhaust - In each dwelling unit kiiing Rater-measured airflow and ma	tchen and bathroom, a system is installed that exhausts d	lirectly to	the outdoo	ors
			nulaciulei-lateu sound level standards.			
Location		Continuous Rate	Intermittent Rate 62	Must Correct	Rater Verified ⁴	N/A 5
	Airflow	Continuous Rate ≥ 5 ACH, based on kitchen volume ^{63, 64}		Must Correct	Rater Verified ⁴	N/A ⁵
	Airflow	≥ 5 ACH,	Intermittent Rate ⁶² ≥ 100 CFM and, if not integrated with range, also ≥	Correct	Verified ⁴	
8.1 Kitchen		≥ 5 ACH, based on kitchen volume ^{63, 64}	Intermittent Rate ⁶² ≥ 100 CFM and, if not integrated with range, also ≥ 5 ACH based on kitchen volume ^{63, 64, 65}	Correct	Verified ⁴	-
8.1 Kitchen	Sound	≥ 5 ACH, based on kitchen volume ^{63, 64} Recommended: ≤ 1 sone	Intermittent Rate ⁶² ≥ 100 CFM and, if not integrated with range, also ≥ 5 ACH based on kitchen volume ^{63, 64, 65} Recommended: ≤ 3 sones	Correct	Verified ⁴	
8.1 Kitchen 8.2 Bathroom	Sound Airflow Sound	≥ 5 ACH, based on kitchen volume ^{63, 64} Recommended: ≤ 1 sone ≥ 20 CFM	Intermittent Rate 62 ≥ 100 CFM and, if not integrated with range, also ≥ 5 ACH based on kitchen volume 63, 64, 65 Recommended: ≤ 3 sones ≥ 50 CFM	Correct	Verified ⁴	-
8.1 Kitchen 8.2 Bathroom Common Space	Sound Airflow Sound ce ² and Ga	≥ 5 ACH, based on kitchen volume ^{63, 64} Recommended: ≤ 1 sone ≥ 20 CFM Required: ≤ 2 sones	Intermittent Rate 62 ≥ 100 CFM and, if not integrated with range, also ≥ 5 ACH based on kitchen volume 63, 64, 65 Recommended: ≤ 3 sones ≥ 50 CFM	Correct	Verified ⁴	-
8.1 Kitchen 8.2 Bathroom Common Space 8.3 Measured es	Sound Airflow Sound ce 2 and Ga xhaust rates	≥ 5 ACH, based on kitchen volume ^{63, 64} Recommended: ≤ 1 sone ≥ 20 CFM Required: ≤ 2 sones arage Mechanical Exhaust are ≥ ASHRAE 62.1 rates (2c). ⁵⁵	Intermittent Rate 62 ≥ 100 CFM and, if not integrated with range, also ≥ 5 ACH based on kitchen volume 63, 64, 65 Recommended: ≤ 3 sones ≥ 50 CFM	Correct	Verified ⁴	-
8.1 Kitchen 8.2 Bathroom Common Space 8.3 Measured ex 8.4 Where a gar	Sound Airflow Sound ce 2 and Ga xhaust rates	≥ 5 ACH, based on kitchen volume ^{63, 64} Recommended: ≤ 1 sone ≥ 20 CFM Required: ≤ 2 sones arage Mechanical Exhaust are ≥ ASHRAE 62.1 rates (2c). ⁵⁵	Intermittent Rate 62 ≥ 100 CFM and, if not integrated with range, also ≥ 5 ACH based on kitchen volume 63, 64, 65 Recommended: ≤ 3 sones ≥ 50 CFM Recommended: ≤ 3 sones	Correct	Verified ⁴	-
8.1 Kitchen 8.2 Bathroom Common Space 8.3 Measured est 8.4 Where a gar 9. Filtration 9.1 MERV 6+ fil	Sound Airflow Sound ce ² and Ga xhaust rates rage exhaus ter(s) install	≥ 5 ACH, based on kitchen volume ^{63, 64} Recommended: ≤ 1 sone ≥ 20 CFM Required: ≤ 2 sones arage Mechanical Exhaust are ≥ ASHRAE 62.1 rates (2c). ⁵⁵ It ventilation system is installed, it is	Intermittent Rate 62 ≥ 100 CFM and, if not integrated with range, also ≥ 5 ACH based on kitchen volume 63, 64, 65 Recommended: ≤ 3 sones ≥ 50 CFM Recommended: ≤ 3 sones equipped with controls that sense CO and NO2.	Correct	Verified ⁴	-
8.1 Kitchen 8.2 Bathroom Common Space 8.3 Measured existed e	Sound Airflow Sound ce ² and Ga xhaust rates rage exhaus ter(s) install cess & regul	≥ 5 ACH, based on kitchen volume ^{63, 64} Recommended: ≤ 1 sone ≥ 20 CFM Required: ≤ 2 sones arage Mechanical Exhaust are ≥ ASHRAE 62.1 rates (2c). ⁵⁵ It ventilation system is installed, it is ed in each dwelling unit ducted mecar service by the occupant or buildi	Intermittent Rate 62 ≥ 100 CFM and, if not integrated with range, also ≥ 5 ACH based on kitchen volume 63, 64, 65 Recommended: ≤ 3 sones ≥ 50 CFM Recommended: ≤ 3 sones equipped with controls that sense CO and NO2.	Correct	Verified ⁴	-
3.1 Kitchen 3.2 Bathroom Common Space 3.3 Measured example and a second	Sound Airflow Sound ce ² and Ga xhaust rates rage exhaus ter(s) install cess & regul	≥ 5 ACH, based on kitchen volume 63,64 Recommended: ≤ 1 sone ≥ 20 CFM Required: ≤ 2 sones arage Mechanical Exhaust are ≥ ASHRAE 62.1 rates (2c). 55 at ventilation system is installed, it is ed in each dwelling unit ducted mechan service by the occupant or buildiincludes gasket and fits snugly again	Intermittent Rate 62 ≥ 100 CFM and, if not integrated with range, also ≥ 5 ACH based on kitchen volume 63, 64, 65 Recommended: ≤ 3 sones ≥ 50 CFM Recommended: ≤ 3 sones equipped with controls that sense CO and NO2. ch. System, serving an individual dwelling unit located to ng owner. 66	Correct	Verified 4	-
8.1 Kitchen 8.2 Bathroom Common Space 8.3 Measured et 8.4 Where a gar 9. Filtration 9.1 MERV 6+ filtration 9.1.1 Filter acc 9.1.1 Filter acc 9.1.2 All retur	Sound Airflow Sound Ce 2 and Ga Axhaust rates rage exhaus ter(s) install cess & regul ccess panel	≥ 5 ACH, based on kitchen volume ^{63, 64} Recommended: ≤ 1 sone ≥ 20 CFM Required: ≤ 2 sones arage Mechanical Exhaust are ≥ ASHRAE 62.1 rates (2c). ⁵⁵ at ventilation system is installed, it is ed in each dwelling unit ducted mechanical exhaust or service by the occupant or buildincludes gasket and fits snugly againechanically supplied outdoor air pas	Intermittent Rate 62 ≥ 100 CFM and, if not integrated with range, also ≥ 5 ACH based on kitchen volume 63, 64, 65 Recommended: ≤ 3 sones ≥ 50 CFM Recommended: ≤ 3 sones equipped with controls that sense CO and NO2. ch. System, serving an individual dwelling unit located to ng owner. 66 inst the exposed edge of filter when closed to prevent	Correct	Verified ⁴	-
8.1 Kitchen 8.2 Bathroom Common Space 8.3 Measured et 8.4 Where a gar 9. Filtration 9.1 MERV 6+ filtration 9.1.1 Filter accompass. 67 9.1.2 All retur 10. Combustic 10.1 Furnaces, direct-vente manufactur	Sound Airflow Sound Ce 2 and Ga Ahaust rates rage exhaus ter(s) install cess & regul cess panel on Applian boilers, and ded. If mecha	≥ 5 ACH, based on kitchen volume 63, 64 Recommended: ≤ 1 sone ≥ 20 CFM Required: ≤ 2 sones arage Mechanical Exhaust are ≥ ASHRAE 62.1 rates (2c). 55 at ventilation system is installed, it is ed in each dwelling unit ducted mechanical exhaust or building includes gasket and fits snugly againechanically supplied outdoor air pastes ces water heaters located within the buinically drafted, the minimum volume	Intermittent Rate 62 ≥ 100 CFM and, if not integrated with range, also ≥ 5 ACH based on kitchen volume 63, 64, 65 Recommended: ≤ 3 sones ≥ 50 CFM Recommended: ≤ 3 sones equipped with controls that sense CO and NO2. ch. System, serving an individual dwelling unit located to ng owner. 66 inst the exposed edge of filter when closed to prevent sees through filter prior to conditioning. ilding's pressure boundary are mechanically drafted or the of combustion air required for safe operation by the make-up air sources must be mechanically closed when	Correct	Verified ⁴	-
8.1 Kitchen 8.2 Bathroom Common Space 8.3 Measured et 8.4 Where a gare 9. Filtration 9.1 MERV 6+ filtration 9.1.1 Filter accumulate bypass. 67 9.1.2 All retur 10. Combustic 10.1 Furnaces, direct-vente manufactur the combustic	Sound Airflow Sound Ce 2 and Ga Axhaust rates rage exhaust ter(s) install cess & regul cess panel on Applian boilers, and ed. If mecha rer and/or co stion applian	≥ 5 ACH, based on kitchen volume 63, 64 Recommended: ≤ 1 sone ≥ 20 CFM Required: ≤ 2 sones arage Mechanical Exhaust are ≥ ASHRAE 62.1 rates (2c). 55 at ventilation system is installed, it is ed in each dwelling unit ducted mechan service by the occupant or buildincludes gasket and fits snugly againechanically supplied outdoor air pases water heaters located within the buincally drafted, the minimum volume ode shall be met or exceeded and methal	Intermittent Rate 62 ≥ 100 CFM and, if not integrated with range, also ≥ 5 ACH based on kitchen volume 63, 64, 65 Recommended: ≤ 3 sones ≥ 50 CFM Recommended: ≤ 3 sones equipped with controls that sense CO and NO2. ch. System, serving an individual dwelling unit located to ng owner. 66 inst the exposed edge of filter when closed to prevent sees through filter prior to conditioning. ilding's pressure boundary are mechanically drafted or e of combustion air required for safe operation by the nake-up air sources must be mechanically closed when in Footnote 70. 68, 69, 70	Correct	Verified 4	-

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National Rater Field Checklist Footnotes

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- 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

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ENERGY STAR Multifan	nily New Construction, Version 1 / 1	.1 / 1.2	_ `		
Other		Must Correct	LP Verified ⁴⁴	Rater Verified ⁴	N/A
11. Domestic Hot Water					
11.1 Prescriptive Path: Hot water equipment rated in EF ENERGY STAR Multifamily Reference Design. Boile		_	-	_	_
11.2 ERI: For hot water equipment serving common space rated in EF or UEF, meet the efficiency levels specif Design. Where rated in thermal efficiency, meet or e	ied in the ENERGY STAR Multifamily Reference	_	-	_	_
11.3 For in-unit storage water heaters, AHRI Certificate of	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 a	nd 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 lobby and where automatic shutoff would endange or automatic bi-level lighting controls installed and	er the safety of occupants, have occupancy sensors				
12.1.2 ASHRAE path only: All common spaces ² (inclucorridors, and stairwells and where automatic shu occupancy sensors or automatic bi-level lighting of		_			
12.2 Common Space ² Lighting Power Density Maximum	n (except garages): 74				
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 powers exceed ASHRAE 90.1-2007 allowances for those Building Area Method, by more than 20%. See Fo	_				
12.3 Shared garages: Lighting power density does not ex					
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.					0
12.5 ERI Path: All exterior and common space lighting fix ENERGY STAR Multifamily Reference Design, exce			-		
12.6 Prescriptive Path: All lighting fixtures (i.e., dwelling efficiency requirements in the ENERGY STAR Multi	units, common spaces, and exterior) meet the family Reference Design. 76,77		-		
12.7 Prescriptive Path: Dwelling unit overall in-unit lightin overall lighting power density, use 1.1 W/ft² where lighting	ng power density ≤ 0.75 W/ft². When calculating ghting is not installed. ⁷⁴		-	_	
13. Appliances and Plumbing Fixtures			Must Correct	Rater Verified ⁴	N/A
13.1 Prescriptive Path: Installed appliances and plumbing criteria in the ENERGY STAR Multifamily Reference		the			
13.2 ERI Path: Installed appliances and plumbing fixtures the criteria in the ENERGY STAR Multifamily Refere	s in common spaces, and not included in the ERI modence Design. ⁷⁸	el, meet		0	
13.3 Prescriptive Path: Shower compartments with multipartal per shower compartment must not exceed 1.75		total flow		_	
14. Whole Building Energy Consumption Data Acc					
14.1 For buildings 50,000 ft ² and larger, a strategy that e consumption data (electricity, natural gas, chilled wate					
Rater Name:			Rater Init	tials:	
Rater Company Name:	_				
Rater Name:	Rater Final Inspection Date(s):		Rater Init	tials:	
Rater Company Name:					
Builder/Developer Employee:	Builder Inspection Date(s):		Builder Ir	nitials:	
Builder/Developer Name:					
Licensed Professional:			LP Initial	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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- 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 or conflicts with local requirements. 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 I is the compression caused by the excess insulation.
- 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.
- 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-

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

- 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 sq. 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

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Job No: 22042 04/28/2023

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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 IWC. 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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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) Air-cooled absorption single effect chiller 0.6 COP 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:

PUB Ш 0 ∞ **M**

8

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> 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, $P_g = 20 \text{ PSF}$.
- 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, $I_s = 1.0$ E. SNOW EXPOSURE FACTOR, C_e = 1.0
- 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.

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).

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. C. GUARDRAILS:
- 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.
- B. SPECIFIC DRAWING OR SPECIFICATION REFERENCES FOR THE ORIGINAL PRODUCT OR SYSTEM SPECIFIED.
- C. THE REASON FOR THE PROPOSED CHANGE.
- . COST SAVINGS AND/OR IMPACT ON THE SCHEDULE
- 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.
- 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	Calculations	PE/SE Seal & Signature
Concrete Mix – Conforming to ACI 318	For Review	N/a	N/a
Structural Steel	For Review	N/a	N/a
Miscellaneous Steel	For Record	Required	Required
For Pavious denotes the contrac	tor must submit to	the decian team fo	or rovious The

- 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 esisted 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.

- 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 NOT APPROVED IN WRITING BY THE OWNER AND ENGINEER.
- 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
- 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
- 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.

<u>CONCRETE</u>

- 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
- 2. 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
- 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:

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
3000	N/a	0.55	3/4	F0	S0	W0	C0
4000	N/a	0.5	3/4	F0	S0	W0	C0
4500	6% ± 1.5%	0.45	3/4	F3	S0	W1	C1
	28 days (psi) 3000 4000	28 Air Content ¹ (psi) 3000 N/a 4000 N/a 6% ±	28 days (psi)	28	28 days (psi) Air Content¹ IMAX w/c ratio² Agg. Size¹ (in) F Class 3000 N/a 0.55 3/4 F0 4000 N/a 0.5 3/4 F0	28 days (psi) Air Content¹ (psi) Air Content¹ (psi) Agg. Size¹ (in) F Class (class) Size¹ (in) 3000 N/a 0.55 3/4 F0 S0 4000 N/a 0.5 3/4 F0 S0 4500 6% ± 0.45 3/4 F3 S0	28 days (psi) Air Content¹ IMAX w/c ratio² Agg. Size¹ (in) F Class S Class W Class 3000 N/a 0.55 3/4 F0 S0 W0 4000 N/a 0.5 3/4 F0 S0 W0 4500 6% ± 0.45 3/4 F3 S0 W/1

- 8. 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
- 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.
- 3. 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.
- 6. 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.
- 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 3½" LONG

4. SIMPSON HANGERS:

- A. ALWAYS USE THE NAIL OR FASTENER AS SPECIFIED BY SIMPSON,
- INCLUDING THE CORRECT DIAMETER AND LENGTH. 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.
- 6. 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



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JENKINS

Design Team: KCJ / SJ Date: 04/28/2023

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Drawing No.

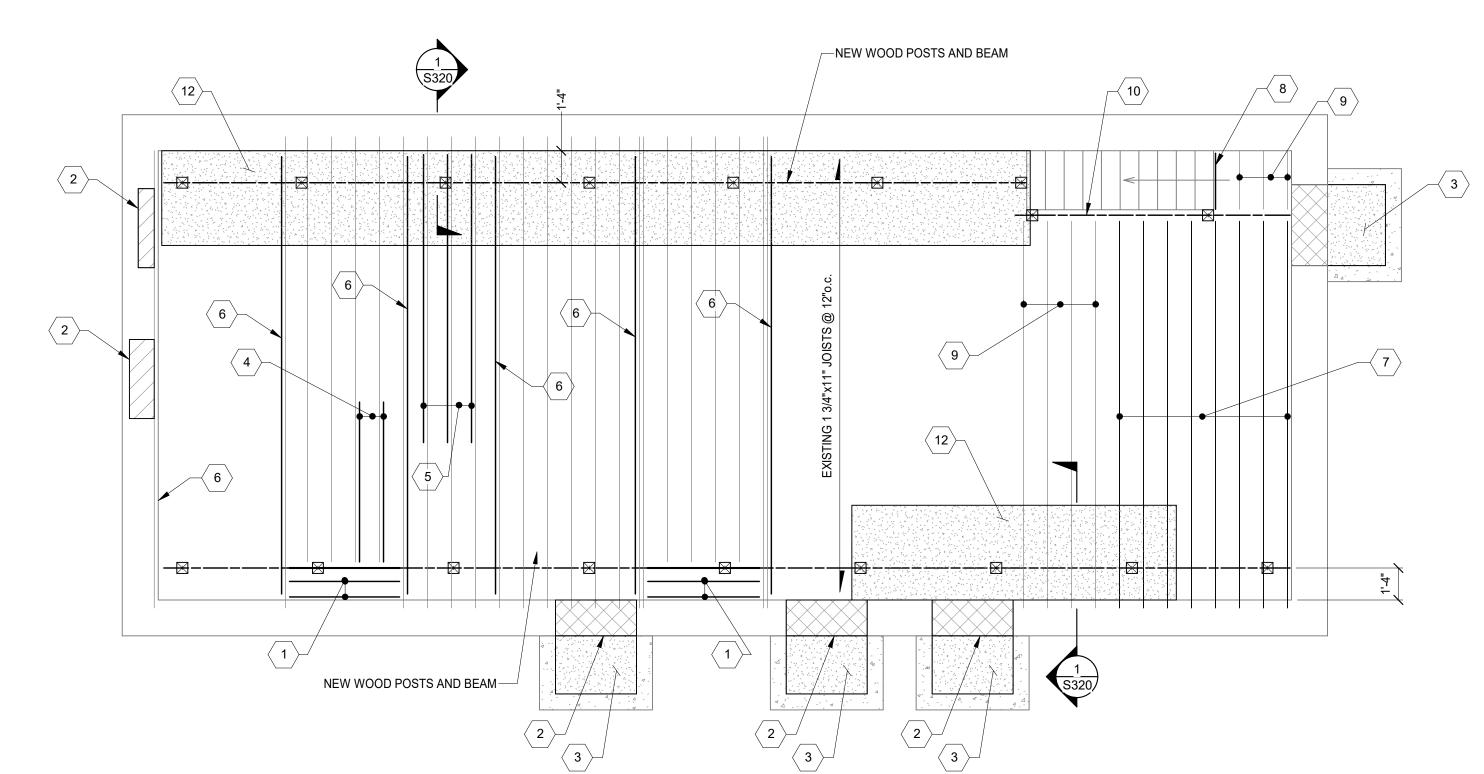
STRUCTURAL INFORMATION NOTED IS BASED ON ASSUMPTIONS OF CONDITION OF EXISTING FRAMING & FRAMING HIDDEN FROM VISUAL OBSERVATION. DETAILS OF PROPOSED FRAMING MODIFICATION/REPAIRS ARE SUBJECT TO CHANGE ONCE DEMOLITION IS UNDERWAY

PROJECT KEYNOTES:

- REMOVE EXISTING MASONRY HEARTH, REPLACE w/ NEW 2x JOISTS AT 16" o.c. MAX, DEPTH TO MATCH EXISTING. CONNECT TO EX BEAMS EACH END w/ SIMPSON L70 ANGLES OR LUS26 HANGERS.
- 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 LINTLS, CUT EX JOISTS BACK, AND BEAR JOISTS ON NEW BEAM.
- REMOVE DEBRIS FROM EXTERIOR WINDOW WELL OR STAIR. FILL WITH 250 PSI CONTROLLED DENSITY FILL (CDF). TOP WITH 4" CONCRETE SIDEWALK SLAB.
- 4 2x12x6' LONG END SISTERS. HANG TO HEADER w/ HUS48 HANGER.
- \langle 5 \rangle 2x12x12' SISTERS BEARING ON NEW BEAM, END 2" FROM NORTH WALL
- \langle 6 \rangle 2x12 SISTER, FULL LENGTH.
- REMOVE EXISTING FRAMING AND SHEATHING. NEW 2x12 JOISTS AT 12" o.c. HANG TO NEW BEAM w/ SIMPSON LUS210
- REMOVE EXISTING BEAM AND PROVIDE NEW (3) 2x12 BEAM, HANG TO BEAM w/ HU212-3 MAX, POCKET INTO EXISITING (8) MASONRY WALL. NEW BEAM SHALL SUPPORT EXISTING STAIR STRINGERS. JACK UP EXISTING STAIR STRINGERS TO RE-LEVEL STAIR, AS FEASIBLE.
- \langle 9 \rangle HANG EXISTING JOISTS TO NEW HEADER w/ LUS210R-18 HANGERS.
- NEW (2) 1-3/4"x11-7/8" LVL BEAM, CANTILEVER AT 6x6 POST AND CONTINUE TO EAST MASONRY WALL. CONNECT TO POSTS w/ LPC6Z POST CAPS, EACH SIDE OF BEAM.
- EXISTING FLOOR IS SUNKEN AND THERE IS AN EXISTING STONE ARCH NEAR THE BOTTOM OF THE EXISTING FOUNDATION \langle 11 \rangle WALL. REMOVE EXISTING DEBRIS AND SOIL AT THE FLOOR AND INVESTIGATE THE CAUSE OF THE COLLAPSE OF THE FLOOR. USE CAUTION AS THIS MAY BE AN EXISTING CISTERN WITH A COLLAPSED CAP.
- \langle 12 \rangle REMOVE EXISTING FLOORING AND REPLACE WITH NEW APA RATED SHEATHING IN HATCHED AREA.
- (13) REBUILD MASONRY WALL w/ NEW 12" SOLID CMU AND 4" BRICK, PER GENERAL NOTES.
- (2) 1-3/4"x11-7/8" LVL SISTER, ENDS WITHIN 2" OF WALL EACH END, w/ (4) 1/4"x6" SWS. FASTEN TO EX DOUBLE w/ (2) 1/4"x6" SWS @ 24" o.c., WITH AN ADDITIONAL (4) 1/4"X6" SWS EACH SIDE OF EXISTING NOTCH.
- INFILL EXISTING OPENING w/ 12" SOLID CMU OR (2) 6" SOLID CMU AND NEW BRICK OUTSIDE WYTHE. PROVIDE 16" WIDE (15) LADDER HORIZONTAL REINFORCING AT 8" o.c. REMOVE EXISTING WOOD LINTELS, MORTAR NEW MASONRY TIGHT ALL
- REPAIR EXISITING INTERIOR WYTHE/WYTHES. REMOVE ANY SOFT BRICK AND/MORTAR. PROVIDE NEW BRICK MASONRY AS NEEDED, MORTAR TO EXISTING HEADER COURSE. WHERE EXISTING HEADER COURSE IS DETERIORATED, PROVIDE SPIRLOK TIES AT 8" o.c. HORIZONTAL SPACING, ABOVE AND BELOW HEADER COURSE. REMOVE EXISTING PLASTER FOR FURTHER OBSERVATIONS.
- NEW WALL TIE. SEE TYPICAL DETAILS.
- CONNECT EXISTING EDGE JOIST TO WALL w/ 1/2" SLEEVE ANCHORS @ 48" o.c., STAGGERED, 2-1/2" MIN EMBED.
- ADDITIONALLY LOCATE ANCHOR WITHIN 12" OF EXISTING NOTCHS, EACH SIDE OF NOTCH. 2x12x12' LONG SISTER, BEARING ON NORTH MASONRY WALL. PROVIDE (2) 1/4"x3" SWS @ 24" o.c, ADDITIONALLY (4) SWS 5' FROM WALL AND AT SOUTH END OF SISTER.
- REMOVE EXISTING INTERIOR WYTHE, REPLACE WITH NEW BRICK MASONRY. KEEP HEADER COURSES IF NOT
- DETERIORATED. PROVIDE SPIRLOK TIES AT 16" o.c. EACH WAY.

 \langle 21 \rangle NEW 2x12 SISTER, END SHALL BE WITHIN 4" OF WALL EACH END.

- EXISTING FIRE ESCAPE EVALUATION NOT IN SCOPE. EXISTING BRACKET THRU WALL TIES ARE CORRODED AND SHALL BE \langle 22 \rangle REPAIRED PRIOR INTERIOR FINISHES. HAVE FIRE ESCAPE EVALUATED AND REPAIRED PER CITY OF CINCINNATI FIRE ESCAPE INSPECTION REPORT REQUIREMENTS.
- \langle 23 \rangle REMOVE AND REPLACE EXISTING INTERIR WOOD LINTELS, SEE TYPICAL INTERIOR LINTEL REPLACEMENT DETAIL.
- 2x12 SISTER, BEARING ON NORTH MASONRY WALL, SOUTH END SHALL BE WITHIN 4" OF WALL. PROVIDE (2) 1/4"x3" SWS @ 24" o.c, ADDITIONALLY (4) SWS 6" FROM NORTH WALL AND AT SOUTH END OF SISTER.
- REMOVE EXISTING HEADER AND PROVIDE NEW (2)2x12 HEADER w/ LS90 ANGLE EACH END. ANCHOR TO BRICK w/ ½"
- SLEEVE ANCHOR AT 12" o.c., 2" MINIMUM EMBEDMENT. HANG EX JOISTS TO HEADER w/ LUS210R-18 HANGERS. REMOVE EXISTING EXTERIOR WYTHE STONE LINTEL AND REPLACE WITH NEW PRECAST STONE LINTEL WITH #4 TOP AND
- (27) CONNECT JOIST TO MASONRY WITH 1/2"Ø SLEEVE ANCHORS @ 48"o.c. 2" MINIMUM EMBEDMENT.
- \langle 28 \rangle PROVIDE 2x12x8'-0" SISTERS AND HANG WITH SIMPSON HU48.
- 〈 29 〉 NEW (2) 1 3/4"x9 1/4" LVL.
- \langle 30 \rangle NEW (2) 2x10 HEADER WITH LUS210-2 HANGER EACH END. CUT AND HANG EXISTING JOISTS WITH LUS28R-18 HANGERS.
- NEW 2x10 SISTERS IN AREA OF NEW CONDENSERS. END OF SISTER SHALL BE WITHIN 2" OF WALL EACH END WITH



1ST FLOOR FRAMING PLAN

SCALE 1/4" = 1'-0"

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.

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

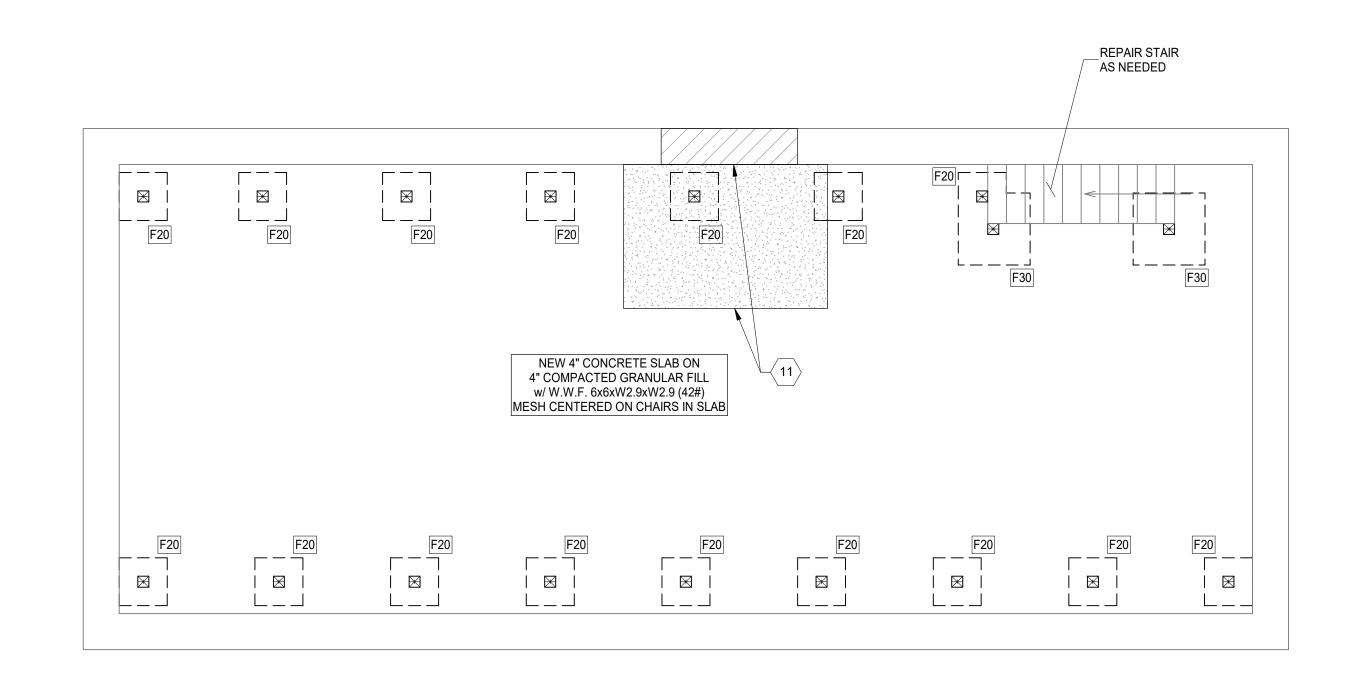
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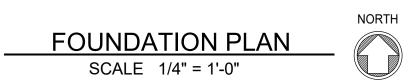
Design Team: KCJ / SJ

Date: 04/28/2023

JENKINS

Drawing No.





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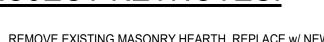
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PROJECT KEYNOTES:

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- GROUT/MORTAR TIGHT TO EX STONE FOUNDATION WALLS AND MASONRY ABOVE. REMOVE EX WOOD LINTLS, CUT EX JOISTS BACK, AND BEAR JOISTS ON NEW BEAM.
 - REMOVE DEBRIS FROM EXTERIOR WINDOW WELL OR STAIR. FILL WITH 250 PSI CONTROLLED DENSITY FILL (CDF). TOP WITH 4" CONCRETE SIDEWALK SLAB.
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TO EX BEAMS EACH END w/ SIMPSON L70 ANGLES OR LUS26 HANGERS. INFILL EX OPENING WITH SOLID CMU OR HOLLOW CMU, GROUTED SOLID, TO MATCH WALL THICKNESS ABOVE.

4 > 2x12x6' LONG END SISTERS. HANG TO HEADER w/ HUS48 HANGER.

\left< 5 \right> 2x12x12' SISTERS BEARING ON NEW BEAM, END 2" FROM NORTH WALL

 \langle 6 \rangle 2x12 SISTER, FULL LENGTH.

LEVEL STAIR, AS FEASIBLE.

 \langle 9 \rangle HANG EXISTING JOISTS TO NEW HEADER w/ LUS210R-18 HANGERS.

w/ LPC6Z POST CAPS, EACH SIDE OF BEAM.

FLOOR. USE CAUTION AS THIS MAY BE AN EXISTING CISTERN WITH A COLLAPSED CAP.

 \langle 12 \rangle REMOVE EXISTING FLOORING AND REPLACE WITH NEW APA RATED SHEATHING IN HATCHED AREA.

(13) REBUILD MASONRY WALL w/ NEW 12" SOLID CMU AND 4" BRICK, PER GENERAL NOTES.

@ 24" o.c., WITH AN ADDITIONAL (4) 1/4"X6" SWS EACH SIDE OF EXISTING NOTCH.

INFILL EXISTING OPENING w/ 12" SOLID CMU OR (2) 6" SOLID CMU AND NEW BRICK OUTSIDE WYTHE. PROVIDE 16" WIDE (15) LADDER HORIZONTAL REINFORCING AT 8" o.c. REMOVE EXISTING WOOD LINTELS, MORTAR NEW MASONRY TIGHT ALL

CONNECT EXISTING EDGE JOIST TO WALL w/ ½" SLEEVE ANCHORS @ 48" o.c., STAGGERED, 2-1/2" MIN EMBED. ADDITIONALLY LOCATE ANCHOR WITHIN 12" OF EXISTING NOTCHS, EACH SIDE OF NOTCH.

FROM WALL AND AT SOUTH END OF SISTER.

DETERIORATED. PROVIDE SPIRLOK TIES AT 16" o.c. EACH WAY.

ESCAPE INSPECTION REPORT REQUIREMENTS.

 \langle 23 \rangle REMOVE AND REPLACE EXISTING INTERIR WOOD LINTELS, SEE TYPICAL INTERIOR LINTEL REPLACEMENT DETAIL.

SLEEVE ANCHOR AT 12" o.c., 2" MINIMUM EMBEDMENT. HANG EX JOISTS TO HEADER w/ LUS210R-18 HANGERS.

27 CONNECT JOIST TO MASONRY WITH 1/2"Ø SLEEVE ANCHORS @ 48"o.c. 2" MINIMUM EMBEDMENT.

 \langle 28 \rangle PROVIDE 2x12x8'-0" SISTERS AND HANG WITH SIMPSON HU48.

(30) NEW (2) 2x10 HEADER WITH LUS210-2 HANGER EACH END. CUT AND HANG EXISTING JOISTS WITH LUS28R-18 HANGERS.

PLAN NOTES

15 AT LOW OPENING

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

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

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

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

3RD FLOOR FRAMING PLAN

19 EACH SIDE OF EXISTING (3) PLY BEAM

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Design Team: KCJ / SJ

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Date: 04/28/2023

Drawing No.

_EX HEADER

REMOVE PLASTER AND TRIM FROM WALL FOR OBSERVATION

 $\langle 18 \rangle$

REMOVE ALL PLASTER AND

TRIM FROM WALL FOR—

FURTHER OBSERVATION

2ND FLOOR FRAMING PLAN

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PROJECT KEYNOTES:

- REMOVE EXISTING MASONRY HEARTH, REPLACE w/ NEW 2x JOISTS AT 16" o.c. MAX, DEPTH TO MATCH EXISTING. CONNECT TO EX BEAMS EACH END w/ SIMPSON L70 ANGLES OR LUS26 HANGERS.
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- REMOVE DEBRIS FROM EXTERIOR WINDOW WELL OR STAIR. FILL WITH 250 PSI CONTROLLED DENSITY FILL (CDF). TOP WITH 4" CONCRETE SIDEWALK SLAB.
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- REMOVE EXISTING HEADER AND PROVIDE NEW (2)2x12 HEADER w/ LS90 ANGLE EACH END. ANCHOR TO BRICK w/ ½" SLEEVE ANCHOR AT 12" o.c., 2" MINIMUM EMBEDMENT. HANG EX JOISTS TO HEADER w/ LUS210R-18 HANGERS.
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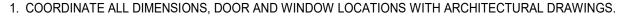
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PLAN NOTES:



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

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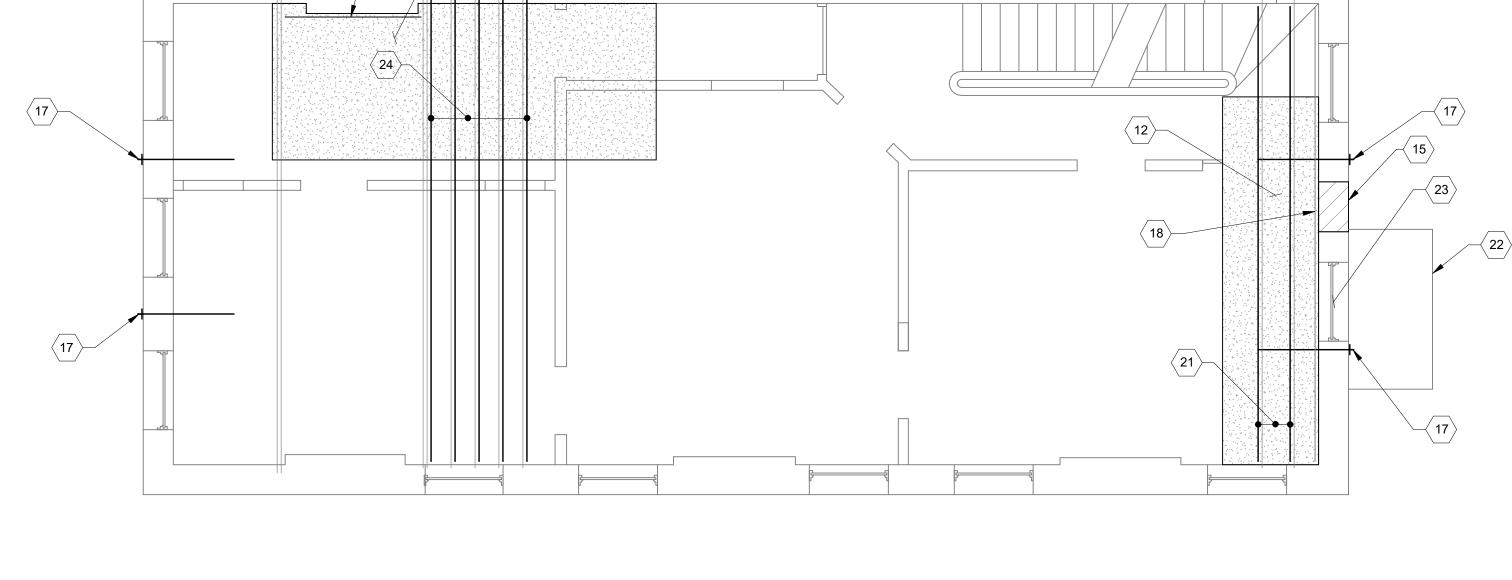
Design Team: KCJ / SJ

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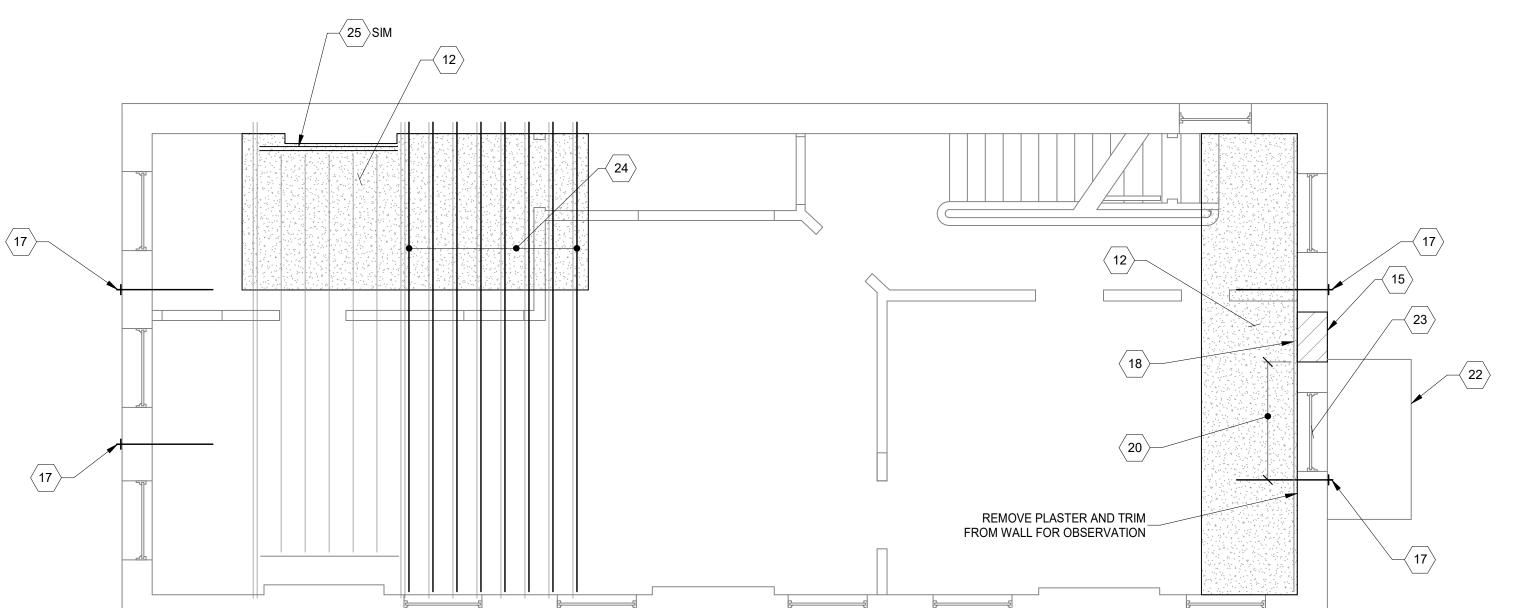
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Date: 04/28/2023







ROOF FRAMING PLAN

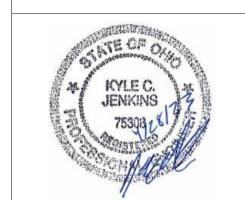
SCALE 1/4" = 1'-0"

PROJECT KEYNOTES:

- REMOVE EXISTING MASONRY HEARTH, REPLACE w/ NEW 2x JOISTS AT 16" o.c. MAX, DEPTH TO MATCH EXISTING. CONNECT TO EX BEAMS EACH END w/ SIMPSON L70 ANGLES OR LUS26 HANGERS.
- 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 LINTLS, CUT EX JOISTS BACK, AND BEAR JOISTS ON NEW BEAM.
- REMOVE DEBRIS FROM EXTERIOR WINDOW WELL OR STAIR. FILL WITH 250 PSI CONTROLLED DENSITY FILL (CDF). TOP WITH 4" CONCRETE SIDEWALK SLAB.
- 4 2x12x6' LONG END SISTERS. HANG TO HEADER w/ HUS48 HANGER.
- 🤇 5 🔪 2x12x12' SISTERS BEARING ON NEW BEAM, END 2" FROM NORTH WALL
- 6 2x12 SISTER, FULL LENGTH.
 - REMOVE EXISTING FRAMING AND SHEATHING. NEW 2x12 JOISTS AT 12" o.c. HANG TO NEW BEAM w/ SIMPSON LUS210
- REMOVE EXISTING BEAM AND PROVIDE NEW (3) 2x12 BEAM, HANG TO BEAM w/ HU212-3 MAX, POCKET INTO EXISITING (8) MASONRY WALL. NEW BEAM SHALL SUPPORT EXISTING STAIR STRINGERS. JACK UP EXISTING STAIR STRINGERS TO RE-LEVEL STAIR, AS FEASIBLE.
- \langle 9 \rangle HANG EXISTING JOISTS TO NEW HEADER w/ LUS210R-18 HANGERS.
- NEW (2) 1-3/4"x11-7/8" LVL BEAM, CANTILEVER AT 6x6 POST AND CONTINUE TO EAST MASONRY WALL. CONNECT TO POSTS w/ LPC6Z POST CAPS, EACH SIDE OF BEAM.
- EXISTING FLOOR IS SUNKEN AND THERE IS AN EXISTING STONE ARCH NEAR THE BOTTOM OF THE EXISTING FOUNDATION \langle 11 \rangle WALL. REMOVE EXISTING DEBRIS AND SOIL AT THE FLOOR AND INVESTIGATE THE CAUSE OF THE COLLAPSE OF THE FLOOR. USE CAUTION AS THIS MAY BE AN EXISTING CISTERN WITH A COLLAPSED CAP.
- \langle 12 \rangle REMOVE EXISTING FLOORING AND REPLACE WITH NEW APA RATED SHEATHING IN HATCHED AREA.
- \langle 13 \rangle REBUILD MASONRY WALL w/ NEW 12" SOLID CMU AND 4" BRICK, PER GENERAL NOTES.
- (2) 1-3/4"x11-7/8" LVL SISTER, ENDS WITHIN 2" OF WALL EACH END, w/ (4) 1/4"x6" SWS. FASTEN TO EX DOUBLE w/ (2) 1/4"x6" SWS @ 24" o.c., WITH AN ADDITIONAL (4) 1/4"X6" SWS EACH SIDE OF EXISTING NOTCH.
- INFILL EXISTING OPENING w/ 12" SOLID CMU OR (2) 6" SOLID CMU AND NEW BRICK OUTSIDE WYTHE. PROVIDE 16" WIDE (15) LADDER HORIZONTAL REINFORCING AT 8" o.c. REMOVE EXISTING WOOD LINTELS, MORTAR NEW MASONRY TIGHT ALL
- REPAIR EXISITING INTERIOR WYTHE/WYTHES. REMOVE ANY SOFT BRICK AND/MORTAR. PROVIDE NEW BRICK MASONRY AS NEEDED, MORTAR TO EXISTING HEADER COURSE. WHERE EXISTING HEADER COURSE IS DETERIORATED, PROVIDE SPIRLOK TIES AT 8" o.c. HORIZONTAL SPACING, ABOVE AND BELOW HEADER COURSE. REMOVE EXISTING PLASTER FOR FURTHER OBSERVATIONS.
- NEW WALL TIE. SEE TYPICAL DETAILS.
- CONNECT EXISTING EDGE JOIST TO WALL w/ 1/2" SLEEVE ANCHORS @ 48" o.c., STAGGERED, 2-1/2" MIN EMBED.
- ADDITIONALLY LOCATE ANCHOR WITHIN 12" OF EXISTING NOTCHS, EACH SIDE OF NOTCH. 2x12x12' LONG SISTER, BEARING ON NORTH MASONRY WALL. PROVIDE (2) 1/4"x3" SWS @ 24" o.c, ADDITIONALLY (4) SWS 5'
- FROM WALL AND AT SOUTH END OF SISTER.
- REMOVE EXISTING INTERIOR WYTHE, REPLACE WITH NEW BRICK MASONRY. KEEP HEADER COURSES IF NOT DETERIORATED. PROVIDE SPIRLOK TIES AT 16" o.c. EACH WAY.
- \langle 21 \rangle NEW 2x12 SISTER, END SHALL BE WITHIN 4" OF WALL EACH END.
- EXISTING FIRE ESCAPE EVALUATION NOT IN SCOPE. EXISTING BRACKET THRU WALL TIES ARE CORRODED AND SHALL BE \langle 22 \rangle REPAIRED PRIOR INTERIOR FINISHES. HAVE FIRE ESCAPE EVALUATED AND REPAIRED PER CITY OF CINCINNATI FIRE ESCAPE INSPECTION REPORT REQUIREMENTS.
- \langle 23 \rangle REMOVE AND REPLACE EXISTING INTERIR WOOD LINTELS, SEE TYPICAL INTERIOR LINTEL REPLACEMENT DETAIL.
- 2x12 SISTER, BEARING ON NORTH MASONRY WALL, SOUTH END SHALL BE WITHIN 4" OF WALL. PROVIDE (2) 1/4"x3" SWS @ 24" o.c, ADDITIONALLY (4) SWS 6" FROM NORTH WALL AND AT SOUTH END OF SISTER.
- REMOVE EXISTING HEADER AND PROVIDE NEW (2)2x12 HEADER w/ LS90 ANGLE EACH END. ANCHOR TO BRICK w/ 1/2"
- SLEEVE ANCHOR AT 12" o.c., 2" MINIMUM EMBEDMENT. HANG EX JOISTS TO HEADER w/ LUS210R-18 HANGERS. REMOVE EXISTING EXTERIOR WYTHE STONE LINTEL AND REPLACE WITH NEW PRECAST STONE LINTEL WITH #4 TOP AND
- 27 CONNECT JOIST TO MASONRY WITH 1/2"Ø SLEEVE ANCHORS @ 48"o.c. 2" MINIMUM EMBEDMENT.
- ⟨ 28 ⟩ PROVIDE 2x12x8'-0" SISTERS AND HANG WITH SIMPSON HU48.
- ⟨ 29 ⟩ NEW (2) 1 3/4"x9 1/4" LVL.
- (30) NEW (2) 2x10 HEADER WITH LUS210-2 HANGER EACH END. CUT AND HANG EXISTING JOISTS WITH LUS28R-18 HANGERS.
- NEW 2x10 SISTERS IN AREA OF NEW CONDENSERS. END OF SISTER SHALL BE WITHIN 2" OF WALL EACH END WITH

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



Design Team: KCJ / SJ

Date: 04/28/2023

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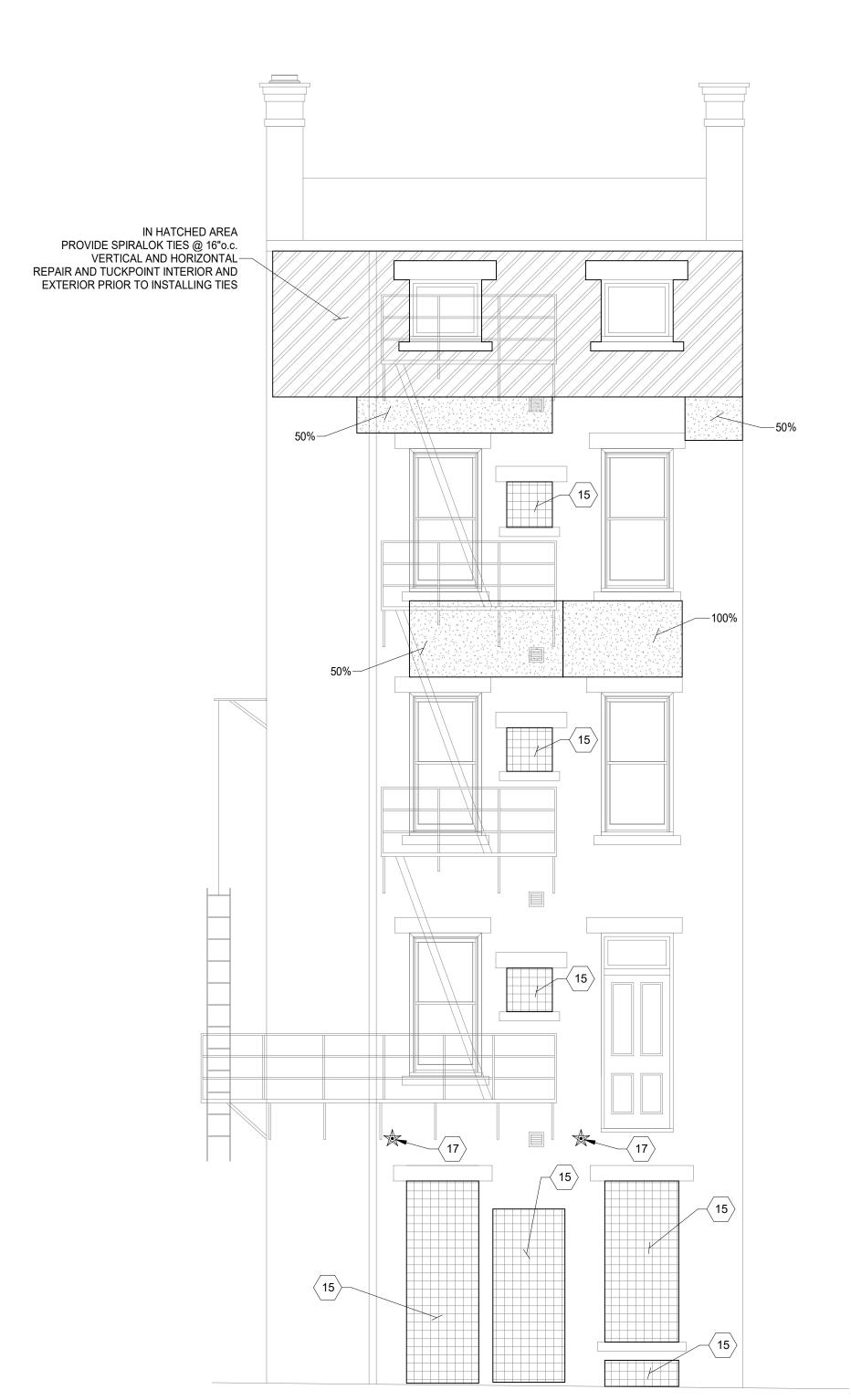
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STRUCTURAL INFORMATION NOTED IS BASED ON ASSUMPTIONS OF CONDITION OF EXISTING FRAMING & FRAMING HIDDEN FROM VISUAL OBSERVATION. DETAILS OF PROPOSED FRAMING MODIFICATION/REPAIRS ARE SUBJECT TO CHANGE ONCE DEMOLITION IS UNDERWAY

17 NEW WALL TIE. SEE TYPICAL DETAILS.

REMOVE EXISTING EXTERIOR WYTHE STONE LINTEL AND REPLACE WITH NEW PRECAST STONE LINTEL WITH #4 TOP AND BOTTOM



REPUBLIC

810

REPUBLIC

EAST ELEVATION SCALE 1/4" = 1'-0"

BRICK REPAIR LEGEND:

TUCKPOINT 1. TUCKPOINT JOINTS IN MASONRY WHERE MORTAR IS SOFT, DAMAGED OR MISSING.

2. REMOVE AND REPLACE SPALLING OR SOFT BRICK THAT IS COMPROMISED MORE THAT 3/4" OF DEPTH.

3. REMOVE CRACKED, DAMAGED OR SEVERLY SPALLED LINTELS AND REPLACE WITH RECLAIMED STONE OR CAST STONE LINTEL TO MATCH EXISTING.

4. ALL OBSERVATIONS WHERE MADE FROM THE GROUND LEVEL AND REPAIRS ARE SUBJECT TO CHANGE BASED ON CONTRACTOR HANDS ON INSPECTIONS.

5. AT CRACKS OR DAMAGED AREAS OF PARGE COAT, CONTRACTOR SHALL REMOVE ALL PARGE COAT THAT IS NOT SOUNDLY CONNECTED TO THE BRICK, AND REPLACE WITH NEW PARGE COAT. TUCKPOINT ANY DETERIORATED MORTAR JOINTS PRIOR TO APPLYING NEW PARGE COAT.

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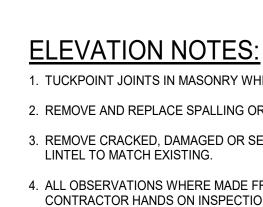
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TUCKPOINT 100% ALL AROUND REPAIR AS NEEDED MASONRY INSPECT
__CHIMNEY ALL SIDES _
AND REPAIR AS NEEDED

SOUTH ELEVATION

SCALE 1/4" = 1'-0"

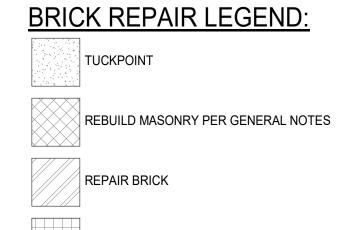
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REBUILD MASONRY PER GENERAL NOTES

BRICK INFILL

PROJECT KEYNOTES:

- 13 REBUILD MASONRY WALL w/ NEW 12" SOLID CMU AND 4" BRICK, PER GENERAL NOTES.
- INFILL EXISTING OPENING w/ 12" SOLID CMU OR (2) 6" SOLID CMU AND NEW BRICK OUTSIDE WYTHE. PROVIDE 16" WIDE LADDER HORIZONTAL REINFORCING AT 8" o.c. REMOVE EXISTING WOOD LINTELS, MORTAR NEW MASONRY TIGHT ALL AROUND OPENING.
- 17 NEW WALL TIE. SEE TYPICAL DETAILS.



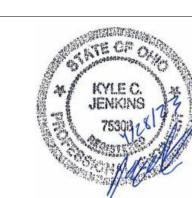
BRICK INFILL

ELEVATION NOTES:

- 1. TUCKPOINT JOINTS IN MASONRY WHERE MORTAR IS SOFT, DAMAGED OR MISSING.
- 2. REMOVE AND REPLACE SPALLING OR SOFT BRICK THAT IS COMPROMISED MORE THAT 3/4" OF DEPTH.
- 3. REMOVE CRACKED, DAMAGED OR SEVERLY SPALLED LINTELS AND REPLACE WITH RECLAIMED STONE OR CAST STONE LINTEL TO MATCH EXISTING.
- 4. ALL OBSERVATIONS WHERE MADE FROM THE GROUND LEVEL AND REPAIRS ARE SUBJECT TO CHANGE BASED ON CONTRACTOR HANDS ON INSPECTIONS.
- 5. AT CRACKS OR DAMAGED AREAS OF PARGE COAT, CONTRACTOR SHALL REMOVE ALL PARGE COAT THAT IS NOT SOUNDLY CONNECTED TO THE BRICK, AND REPLACE WITH NEW PARGE COAT. TUCKPOINT ANY DETERIORATED MORTAR JOINTS PRIOR TO APPLYING NEW PARGE COAT.

MODIFICATION/REPAIRS ARE SUBJECT TO CHANGE ONCE DEMOLITION IS UNDERWAY





Design Team: KCJ / SJ

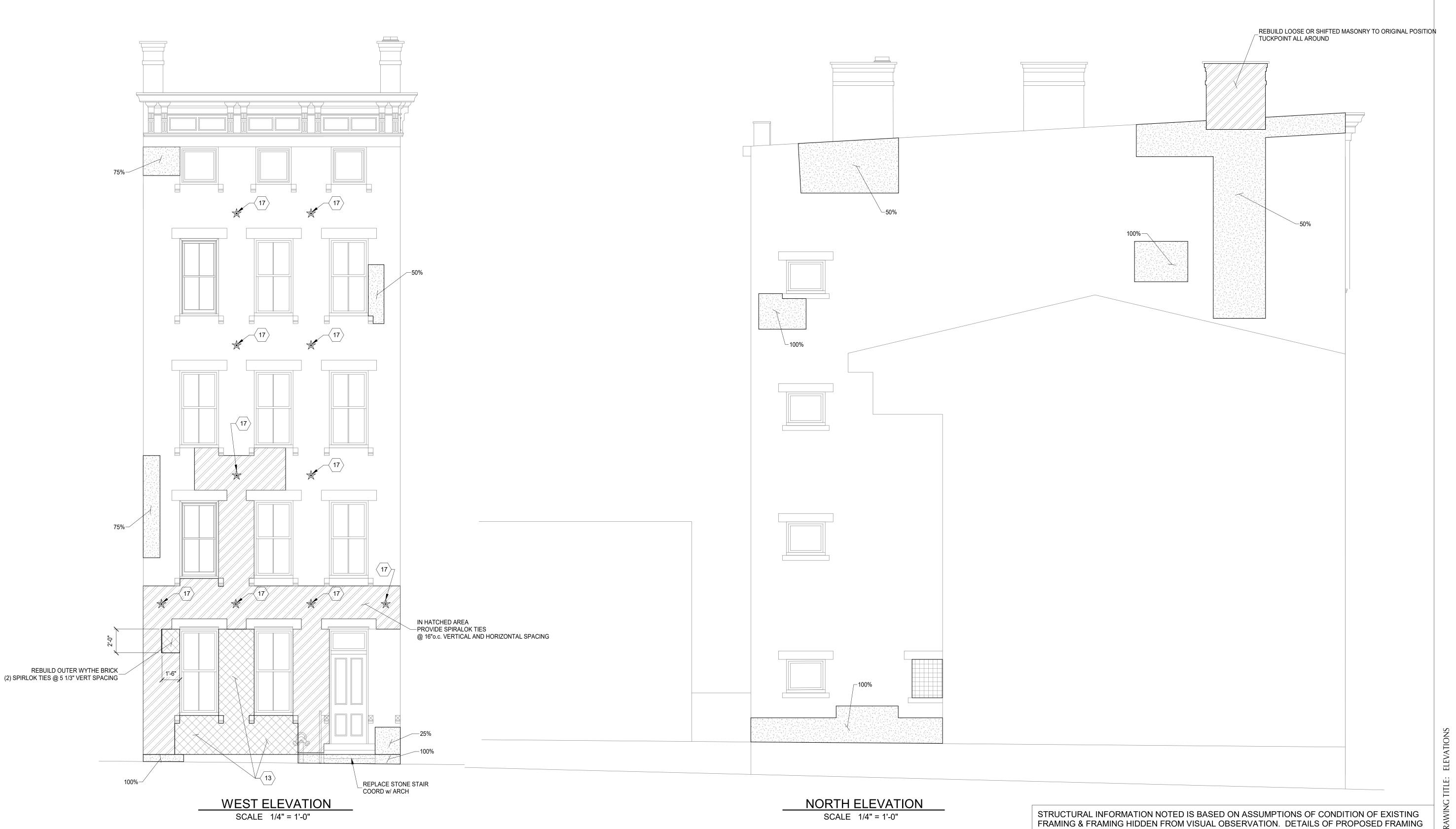
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EXISTING

-MULTIWYTHE

BRICK WALL

EXISTING SHEATING OR NEW APA RATED

SEE PLAN

.131" x 3" TOE NAIL

(3) PT 2x10's CONT

SPLICE AT POSTS ONLY

-PT 6x6 @ 6'-0"o.c. MAX

SIMPSON 'LPC6Z' POST CAP

-EACH SIDE

EACH JOIST

2 PER POST

EXISTING STONE

SIMPSON ABA66Z POST BASE

-1'-0"x2'-0"X2'-0" CONC FOOTING

NEW CONC SLAB

SEE PLAN

-w/5/8"∅ MIN ANCHOR BOLT

_CONC FOOTING SHALL BEAR ON FIRM NATIVE SOIL

SCALE 3/4" = 1'-0"

FOUNDATION WALL

WITH 6" EMBED

SEE PLAN

SHEATHING AS NEEDED

NEW OR EXISTING JOIST

—(4) 0.131"x3" TOE NAILS

SIMPSON A23 ANGLE-

NEW 2x RIPPED-

GUTTER

SEE ARCH

NEW APA RATED

REMOVE EXISTING PROVIDE NEW 2x10 PT—

HOLMAN BARNARD SPIRLOK TIES

SHEATHING

RIM BOARD

@ 16"o.c. EACH WAY

GROUT VOID SOLID-

EXISTING

BRICK WALL

FILL GAP-

-L1"x1"x1/8" WITH (2) 1/4"x1 1/2" SDS

-2x RIPPED BLOCKING @ 24"o.c.

3/8" SLEEVE ANCHOR

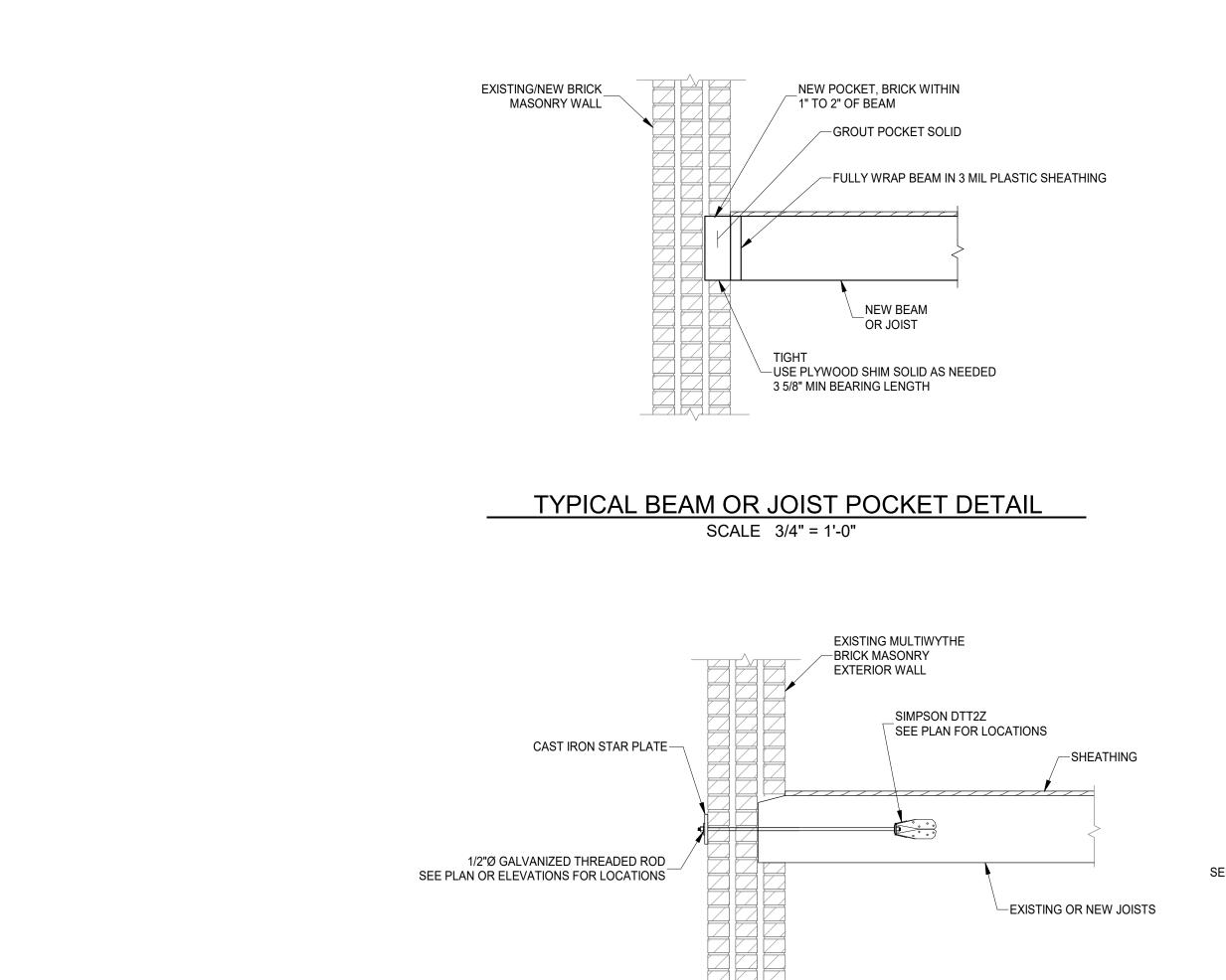
2" MIN EMBEDMENT

NEW 4" SOLID CMU

WHERE REQUIRED

-NEW (2) 1 3/4"x9 1/4" LVL BEAM

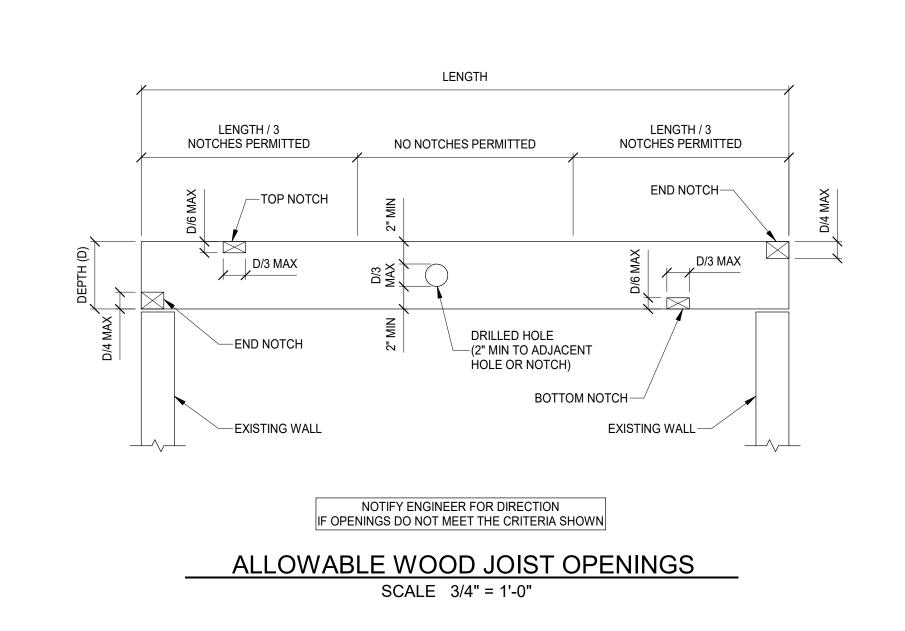
NEW APA RATED SHEATHING
AS NEEDED FOR NEW WORK

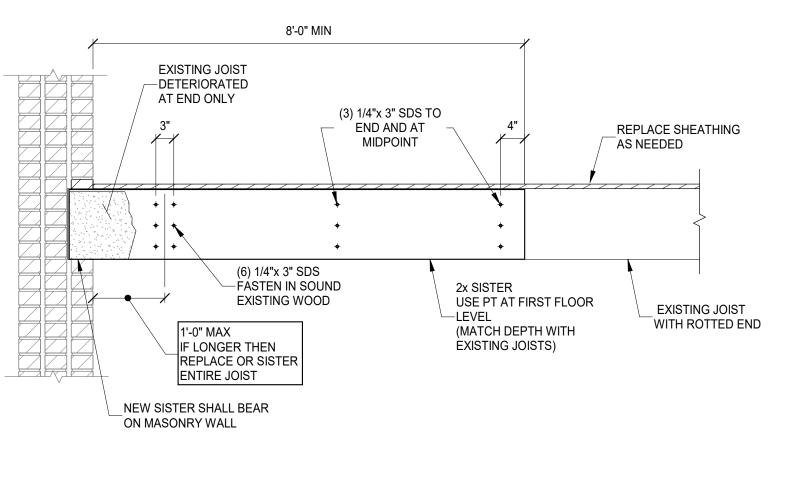


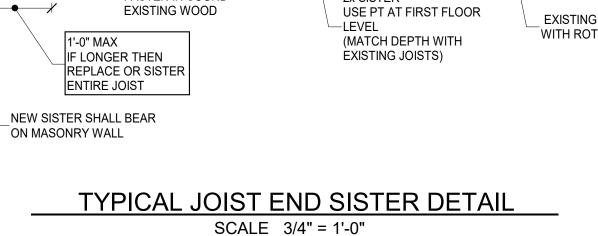
TYPICAL WALL TIE DETAIL, JOIST

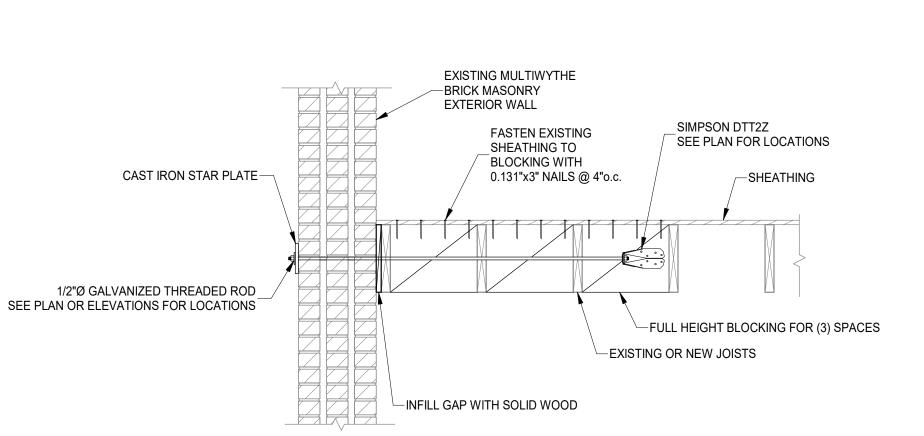
PERPENDICULAR TO WALL

SCALE 3/4" = 1'-0"





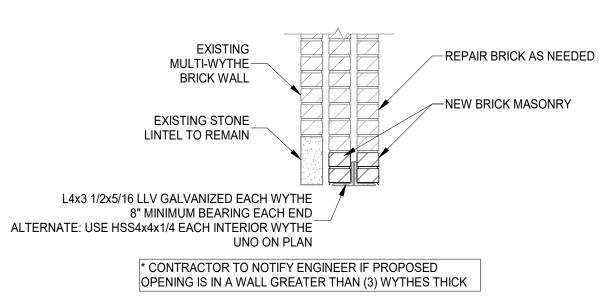




TYPICAL WALL TIE, JOIST PARALLEL TO WALL SCALE 3/4" = 1'-0"

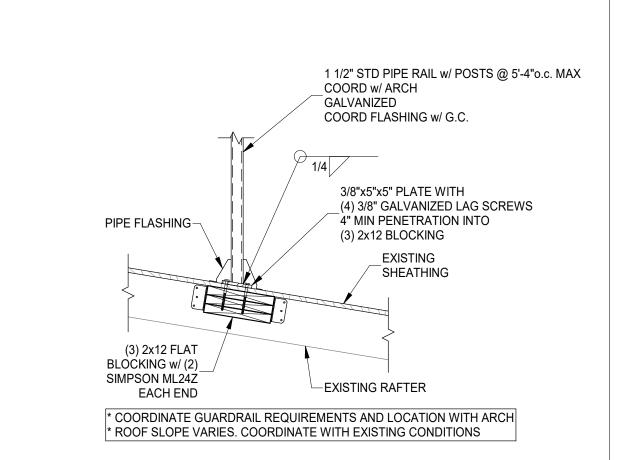
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TYPICAL EXTERIOR WALL, INTERIOR LINTEL REPLACEMENT DETAIL

SCALE 3/4" = 1'-0"



TYPICAL RAILING CONNECTION TO ROOF SCALE 3/4" = 1'-0"

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Date: 04/28/2023

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CALLOUT	DESCRIPTION	FACE SIZE	INLET SIZE	MODEL	NOTES
		(IN)	(IN)		
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
DVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED DRYER VENT.	6x7	4Ø	FAMCO DWVP	BACKDRAFT DAMPER/ANGLED HOOD.
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-3	FLOOR REGISTER, ALL-STEEL CONSTRUCTION, 75% FREE AREA, TOE-OPERATED VALVE CONTROL	10x8	8x6	HART AND COOLEY/ 210	
FR-6	FLOOR REGISTER, ALL-STEEL CONSTRUCTION, 75% FREE AREA, TOE-OPERATED VALVE CONTROL	14x8	12x6	HART AND COOLEY/ 210	GOLDEN SAND ENAMEL FINISH
FRG-1	RETURN AIR FILTER GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	26x10	24x8	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-9C	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	26x16	24x14	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
SR1W-1	STEEL 1-WAY REGISTER, PLATE DAMPER, 1/3" FIN SPACING	10x6	8x4	HART AND COOLEY/ 651	ADJUSTABLE PLATE DAMPER, BRIGHT WHITE FINISH
SR1W-3	STEEL 1-WAY REGISTER, PLATE DAMPER, 1/3" FIN SPACING	10x8	8x6	HART AND COOLEY/ 651	ADJUSTABLE PLATE DAMPER, BRIGHT WHITE FINISH
SR1W-6	STEEL 1-WAY REGISTER, PLATE DAMPER, 1/3" FIN SPACING	16x8	14x6	HART AND COOLEY/ 651	ADJUSTABLE PLATE DAMPER, BRIGHT WHITE FINISH
SR2W-1C	STEEL 2-WAY REGISTER, MS DAMPER, 1/3" FIN SPACING	8x6	6x4	HART AND COOLEY/ 661	ADJUSTABLE DAMPER IN FACE, BRIGHT WHITE FINISH

STEEL 2-WAY REGISTER, MS DAMPER,

1/3" FIN SPACING

2:\~Project Directories\9700–9799\9757 – Findlay Flats Findlay Parkside (Willkommen ? Phase II)\~Construction Documents\~Phase 1 (8 Buildings)\1808 REPUBLIC\XREF THESE DRAWINGS AND SPECIFICATIONS ARE NOT AUTHORIZED TO BE USED AS CONTRACT DOCUMENTS. THESE DRAWINGS HAVE BEEN PRE TO DETERMINE CODE COMPLIANCE. THE INSTALLING CONTRACTOR IS RESPONSIBLE TO ENSURE THAT MEANS, METHODS, AND MATERIALS UGENERAL CONTRACTOR, ETC.

16x6

UNOCCUPIED MECHANICAL USE ONLY

10x8

12x10

14x4

HART AND COOLEY/ 661

ADJUSTABLE DAMPER IN FACE, BRIGHT

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.

 3. 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.
- 4. FRESH AIR INTAKE THRU WALL TO WALL CAP.5. DUCT EXHAUST UP THROUGH ROOF WITH RAIN-PROOF CAP.
- 6. 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.
- 6" EXHAUST TO BE ROUTED DIRECTLY TO ROOF, AS ALLOWED PER OBC 714.4.1 EXCEPTION 1.
 UNDERCUT DOOR 1" ABOVE FINISHED FLOOR FOR RETURN/ MAKE UP AIR.
 DUCTED RETURN BETWEEN TRANSFER GRILLES TO AVOID EXPOSED WALL
- 9. DUCTED RETURN BETWEEN TRANSFER GRILLES TO AVOID EXPOSED WALL CAVITY.

 10. 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. 10.1. 3' FROM PROPERTY LINE.
- 10.2. 3' FROM OPERABLE OPENINGS INTO BUILDING.
- 12.3 10' FROM MECHANICAL AIR INTAKE
 11. 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.
- DUCTED RETURN SLEEVE TO AVOID EXPOSED WALL CAVITY.
 ROUTE EXHAUST DUCT UP IN JOIST POCKET. RATING SHALL BE MAINTAINED AROUND JOIST TO PREVENT FIRE DAMPER. REFER TO ARCHITECTURAL PLANS
- FOR DETAILS.

 14. RETURN DUCT UP TO FIRST FLOOR.
- 15. SUPPLY DUCT UP TO FIRST FLOOR.16. FRESH AIR DUCT UP TO FIRST FLOOR.

MECHANICAL SCOPE OF WORK (PLAN REVIEW ONLY)

MECHANICAL SCOPE OF WORK IS TO PROVIDE NEW HVAC EQUIPMENT TO RESIDENTIAL 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 DESIDEN

GENERAL NOTES

FLOOR/CEILING.

- A. FOR FULL SCHEDULES, SPECIFICATIONS, AND COMPLETE LISTING SEE DETAIL SHEETS
- 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.
- I. MOUNT THERMOSTATS 60" ABOVE FINISHED FLOOR. MOUNT THERMOSTATS IN ADA UNITS 40" ABOVE FINISHED FLOOR.
- J. 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 CONTRACTORS.
- 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 \$\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 EXTERN NOT LESS THAN 2 INCHES ABOVE SOLE PLATES
- AND BELOW TOP PLATES.

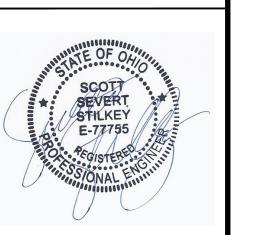
 J.F. TRANSITION DUCTS USED TO CONNECT THE DRYER TO THE EXHAUST DUCT SYSTEM SHALL BE A SINGLE LENGTH THAT IS LISTED AND LABELED IN ACCORDANCE WITH UL 2158A. TRANSITION DUCTS SHALL BE NOT GREATER THAN 8 FEET IN LENGTH AND SHALL NOT BE CONCEALED WITHIN CONSTRUCTION.
- J.G. PROVIDE DRYER WALL BOX EQUAL TO 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 LEGEND — HVAC					
T	THERMOSTAT				
	CEILING DIFFUSER				
→	SIDE WALL GRILL				
«\- «\-	RETURN WALL GRILL				
← \}_	AIR FLOW DIRECTION				
14×10	DUCTWORK				
	TYPICAL SUPPLY DUCT DN				
	TYPICAL RETURN DUCT DN				
N N	TYPICAL EXHAUST DUCT				
ررد	TURNING VANES				
\boxtimes ~~	FLEXIBLE DUCT, 8'-0" LONG MAX.				
Ø_	TYPICAL ROUND DUCT DN				
	ROUND DUCT UP				
	MVD MANUAL VOLUME DAMPER				
	DROPPED CEILING/SOFFIT				







202 W

Progress Dates
04/28/2023 Permit

Revisions

Checked By: SSS

Drawn by: RPG

PR-09757
ENGINEERED
BUILDING

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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OR IC ST / 1810 REPUBLIC ST

RENOVATION FOR 1808 REPUBLIC S

MI 00

1/3" FIN SPACING

1/3" FIN SPACING

STEEL 2-WAY REGISTER, MS DAMPER,

16x6

14x4

DIFFL	DIFFUSER, GRILLE, AND REGISTER SCHEDULE					
CALLOUT	DESCRIPTION	FACE SIZE (IN)	INLET SIZE (IN)	MODEL	NOTES	
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	
DVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED DRYER VENT.	6x7	4Ø	FAMCO DWVP	BACKDRAFT DAMPER/ANGLED HOOD.	
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-3	FLOOR REGISTER, ALL-STEEL CONSTRUCTION, 75% FREE AREA, TOE-OPERATED VALVE CONTROL	10x8	8x6	HART AND COOLEY/ 210		
FR-6	FLOOR REGISTER, ALL-STEEL CONSTRUCTION, 75% FREE AREA, TOE-OPERATED VALVE CONTROL	14x8	12x6	HART AND COOLEY/ 210	GOLDEN SAND ENAMEL FINISH	
FRG-1	RETURN AIR FILTER GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	26x10	24x8	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-9C	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	26x16	24x14	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	
SR1W-1	STEEL 1-WAY REGISTER, PLATE DAMPER, 1/3" FIN SPACING	10x6	8x4	HART AND COOLEY/ 651	ADJUSTABLE PLATE DAMPER, BRIGHT WHITE FINISH	
SR1W-3	STEEL 1-WAY REGISTER, PLATE DAMPER, 1/3" FIN SPACING	10x8	8x6	HART AND COOLEY/ 651	ADJUSTABLE PLATE DAMPER, BRIGHT WHITE FINISH	
SR1W-6	STEEL 1-WAY REGISTER, PLATE DAMPER, 1/3" FIN SPACING	16x8	14x6	HART AND COOLEY/ 651	ADJUSTABLE PLATE DAMPER, BRIGHT WHITE FINISH	
SR2W-1C	STEEL 2-WAY REGISTER, MS DAMPER,	8x6	6x4	HART AND COOLEY/ 661	ADJUSTABLE DAMPER IN FACE, BRIGHT	

HART AND COOLEY/ 661

WHITE FINISH

WHITE FINISH

ADJUSTABLE DAMPER IN FACE, BRIGHT

⟨⊕⟩ KEYED SHEET NOTES

CODE MINIMUM OSA LISTED ABOVE.

PENETRATIONS. REFER TO DETAIL.

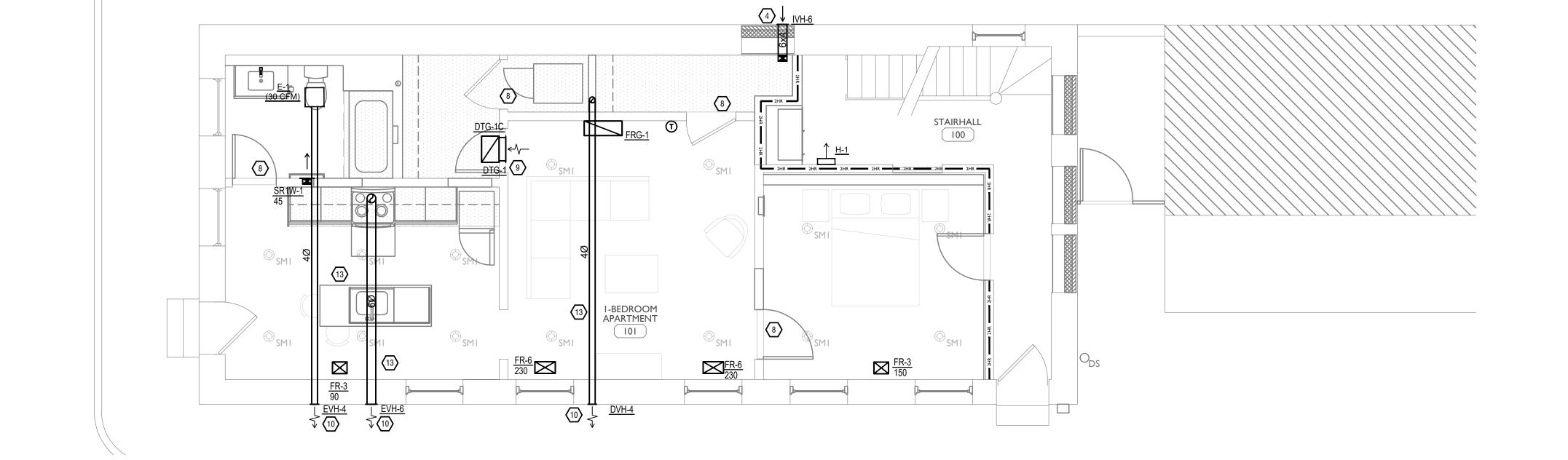
- ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOOR DRAIN IN MECHANICAL CLOSET. SLOPE PIPE A MINIMUM OF 1/8 " PER FOOT AWAY FROM UNIT. ROUTE LINE SET FROM OUTDOOR UNIT TO INDOOR AIR HANDLER. ALL PIPING
- SHALL BE CONCEALED IN FINISHED AREA. SIZE PER MANUFACTURES RECOMMENDATIONS. ALL BASEMENTS SHALL BE VENTILATED 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
- FRESH AIR INTAKE THRU WALL TO WALL CAP. . DUCT EXHAUST UP THROUGH ROOF WITH RAIN-PROOF CAP.
- . 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
- . 6" EXHAUST TO BE ROUTED DIRECTLY TO ROOF, AS ALLOWED PER OBC 714.4.1 EXCEPTION 1. UNDERCUT DOOR 1" ABOVE FINISHED FLOOR FOR RETURN/ MAKE UP AIR.
- . DUCTED RETURN BETWEEN TRANSFER GRILLES TO AVOID EXPOSED WALL
- . 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. 10.1. 3' FROM PROPERTY LINE. 10.2. 3' FROM OPERABLE OPENINGS INTO BUILDING.
- 12.3 10' FROM MECHANICAL AIR INTAKE 11. 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. 12. DUCTED RETURN SLEEVE TO AVOID EXPOSED WALL CAVITY.
- 3. ROUTE EXHAUST DUCT UP IN JOIST POCKET. RATING SHALL BE MAINTAINED AROUND JOIST TO PREVENT FIRE DAMPER. REFER TO ARCHITECTURAL PLANS FOR DETAILS.
- 14. RETURN DUCT UP TO FIRST FLOOR. 15. SUPPLY DUCT UP TO FIRST FLOOR. 16. FRESH AIR DUCT UP TO FIRST FLOOR.

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

RESIDENTIAL COOLINGHEATINGCOOLINGHEATINGOUTDOOR: 93 DB / 75 WBOUTDOOR: 0 DBOUTDOOR: 93 DB / 75 WBHEATING 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
- F. PROVIDE BACKDRAFT DAMPERS FOR ALL EXHAUST SYSTEMS AND EITHER
- ABOVE DROP CEILING OR IN BULKHEADS. COORDINATE ROUTING WITH
- 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
- . 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 CONTRACTORS.
- 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.
- EXHAUST SYSTEMS. J.A. EXHAUST DUCTS SHALL HAVE A SMOOTH INTERIOR FINISH AND BE
- J.B. DUCT SIZE SHALL BE 4 INCHES NOMINAL DIAMETER. J.C. DUCTS SHALL BE SUPPORTED AT 4-FOOT INTERVALS AND SECURED IN
- J.D. DUCTS SHALL NOT BE JOINED WITH SCREWS OF SIMILAR FASTENERS THAT
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- 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.
- NEAR DRYER. 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

SYMBOLS LE	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			
\square	TYPICAL EXHAUST DUCT			
ردو	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)

HVAC DESIGN CONDITIONS

GENERAL NOTES

- ALL MECHANICAL EQUIPMENT.
- 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.
- G. IN DWELLING UNITS, ROUTE ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ARCHITECTURAL DRAWINGS. DUCTS SHALL BE RUN BELOW THE RATED
- ADA UNITS 40" ABOVE FINISHED FLOOR.
- K. MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED
- J. THE FOLLOWING GUIDELINES MUST BE FOLLOWED FOR THE DOMESTIC DRYER
- CONSTRUCTED OF METAL A MINIMUM OF 28 GAGE.
- PLACE. THE INSERT END OF THE DUCT SHALL EXTEND INTO THE ADJOINING DUCT OR FITTING IN THE DIRECTION OF AIRFLOW.
- PROTRUDE MORE THAN 1/2 INCH INTO THE INSIDE OF THE DUCT.
- J.E. PROTECTIVE SHIELD PLATES SHALL BE PLACED WHERE NAILS OR SCREWS 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 SHIELD PLATES SHALL BE CONSTRUCTED OF STEEL, HAVE A THICKNESS OF
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- J.H. PROVIDE A PERMANENT LABEL OR TAG (EQUAL TO DRYERPLACARD) FEET FOR A RADIUS MITERED 90-DEGREE ELBOW.

RENO

Job No: 22042

202 **W**

SEVERT

E-77755

Progress Dates

Revisions

Checked By: SSS

ENGINEERED

TEAMWORK • COLLABORATION

SHARED SUCCESS

515 Monmouth Street, Suite 204

Newport, KY 41071 (859) 261-0585

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1808 REPUBLIC

Drawn by: RPG

04/28/2023 Permit

SR1W-6

SR2W-1C

STEEL 1-WAY REGISTER, PLATE

STEEL 2-WAY REGISTER, MS DAMPER, 8x6

STEEL 2-WAY REGISTER, MS DAMPER,

DAMPER, 1/3" FIN SPACING

1/3" FIN SPACING

1/3" FIN SPACING

16x8

16x6

14x6

6x4

14x4

DIFFU	ISER, GRILLE, AND REG	GISTER	SCHED	OULE	
CALLOUT	DESCRIPTION	FACE SIZE (IN)	INLET SIZE (IN)	MODEL	NOTES
DTG-1	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	18x12	16x10	HART AND COOLEY/ 650	BRIGHT WHITE FINISH
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FR-3	FLOOR REGISTER, ALL-STEEL CONSTRUCTION, 75% FREE AREA, TOE-OPERATED VALVE CONTROL	10x8	8x6	HART AND COOLEY/ 210	
FR-6	FLOOR REGISTER, ALL-STEEL CONSTRUCTION, 75% FREE AREA, TOE-OPERATED VALVE CONTROL	14x8	12x6	HART AND COOLEY/ 210	GOLDEN SAND ENAMEL FINISH
FRG-1	RETURN AIR FILTER GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	26x10	24x8	HART AND COOLEY/ 265	GOLDEN SAND ENAMEL FINISH
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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
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- CODE MINIMUM OSA LISTED ABOVE. FRESH AIR INTAKE THRU WALL TO WALL CAP.
- 5. DUCT EXHAUST UP THROUGH ROOF WITH RAIN-PROOF CAP. . 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
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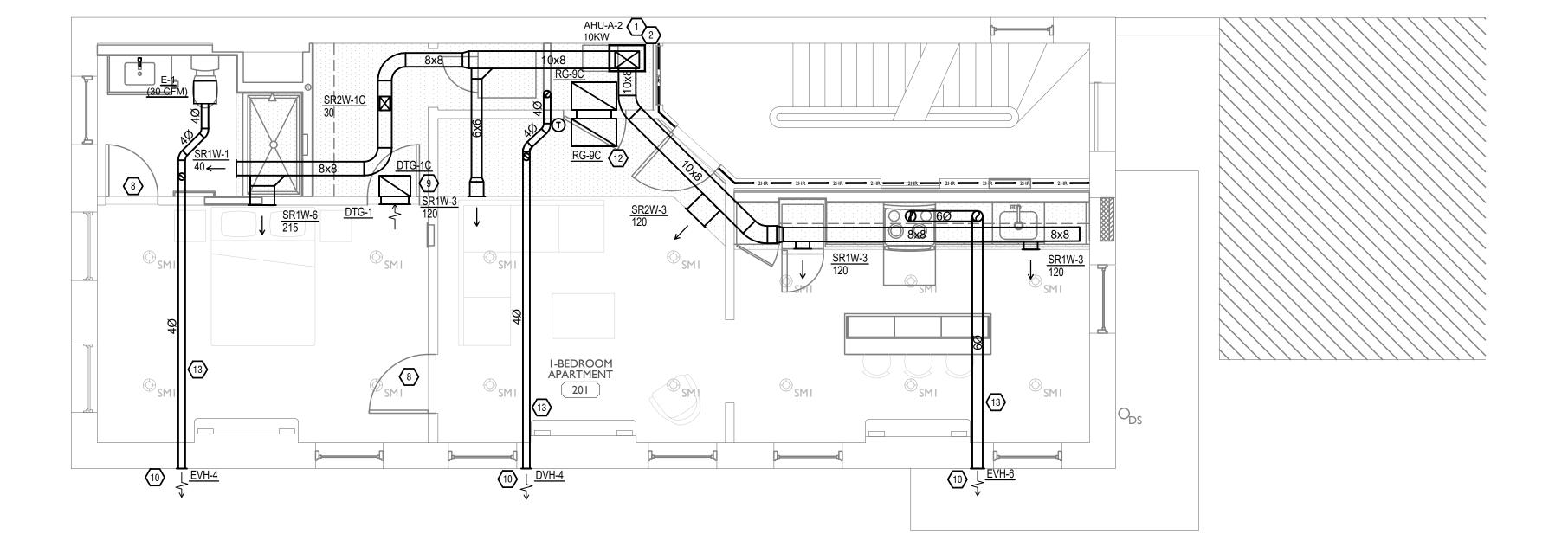
COOLING
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OUTDOOR: 0 DB INDOOR: 70 INDOOR: 75 INDOOR: 72 INDOOR: 70

GENERAL NOTES

DIFFUSER LOCATIONS.

- A. FOR FULL SCHEDULES, SPECIFICATIONS, AND COMPLETE LISTING SEE DETAIL
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- 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 LEGEND — 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				
X	TYPICAL EXHAUST DUCT				
ردره	TURNING VANES				
	FLEXIBLE DUCT, 8'-0" LONG MAX.				
<u> </u>	TYPICAL ROUND DUCT DN				
	ROUND DUCT UP				
	MVD MANUAL VOLUME DAMPER				
	DROPPED CEILING/SOFFIT				



HART AND COOLEY/ 651

HART AND COOLEY/ 661

HART AND COOLEY/ 661

ADJUSTABLE PLATE DAMPER, BRIGHT

ADJUSTABLE DAMPER IN FACE, BRIGHT

ADJUSTABLE DAMPER IN FACE, BRIGHT

WHITE FINISH

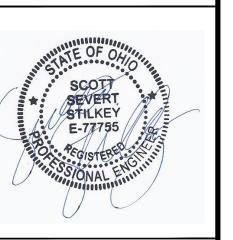
WHITE FINISH

WHITE FINISH



MECHANICAL PLAN - SECOND FLOOR

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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WITHOUT WRITTEN CONSENT OF ENGINEERED BUILDING SYSTEMS, INC. REPUBLI 0 ∞ S

REPUBLIC 808

DIFFUSER, GRILLE, AND REGISTER SCHEDULE CALLOUT DESCRIPTION FACE SIZE | INLET SIZE NOTES MODEL (IN) (IN) RETURN AIR GRILLE, ALL-STEEL 18x12 HART AND COOLEY/ 650 BRIGHT WHITE FINISH 16x10 CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES DTG-1C RETURN AIR GRILLE, ALL-STEEL 18x12 16x10 HART AND COOLEY/ 650 BRIGHT WHITE FINISH CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES DVH-4 28 GAUGE GALVANIZED STEEL. FAMCO DWVP BACKDRAFT DAMPER/ANGLED HOOD. PRE-PAINTED DRYER VENT. EVH-4 FAMCO SDWVP BACKDRAFT DAMPER/ANGLED HOOD. 28 GAUGE GALVANIZED STEEL. PRE-PAINTED EXHAUST VENT. 1/4 INCH INSECT SCREEN. EVH-6 28 GAUGE GALVANIZED STEEL. 8x9 6Ø FAMCO SDWVP BACKDRAFT DAMPER/ANGLED HOOD. PRE-PAINTED EXHAUST VENT. 1/4 INCH INSECT SCREEN. FLOOR REGISTER, ALL-STEEL 10x8 HART AND COOLEY/ 210 CONSTRUCTION, 75% FREE AREA, TOE-OPERATED VALVE CONTROL FLOOR REGISTER, ALL-STEEL 12x6 HART AND COOLEY/ 210 GOLDEN SAND ENAMEL FINISH 14x8 CONSTRUCTION, 75% FREE AREA, TOE-OPERATED VALVE CONTROL FRG-1 RETURN AIR FILTER GRILLE, ALL-STEEL 26x10 24x8 HART AND COOLEY/ 265 GOLDEN SAND ENAMEL FINISH CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES 28 GAUGE GALVANIZED STEEL. FAMCO SWVP ANGLED HOOD.1/4 INCH INSECT PRE-PAINTED INTAKE VENT. SCREEN. RETURN AIR GRILLE, ALL-STEEL 24x14 HART AND COOLEY/ 650 BRIGHT WHITE FINISH CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES STEEL OPPOSED-BLADE DAMPER STEEL RETURN GRILLE, 3/4" BLADE TITUS 350RL SPACING, 35 DEGREE DEFLECTION, OPERABLE FROM THE FACE OF THE BLADES PARALLEL TO LONG DIMENSION SDG1W-1 10x3 HART AND COOLEY/ SV ADJUSTABLE DAMPER, BRIGHT WHITE ALUMINUM SINGLE DEFLECTION SPIRAL | 12x5 FINISH DIFFUSER STEEL 1-WAY REGISTER, PLATE SR1W-1 10x6 8x4 HART AND COOLEY/ 651 ADJUSTABLE PLATE DAMPER, BRIGHT DAMPER, 1/3" FIN SPACING WHITE FINISH SR1W-3 STEEL 1-WAY REGISTER, PLATE 10x8 8x6 HART AND COOLEY/ 651 ADJUSTABLE PLATE DAMPER, BRIGHT DAMPER, 1/3" FIN SPACING WHITE FINISH SR1W-6 STEEL 1-WAY REGISTER, PLATE 16x8 14x6 HART AND COOLEY/ 651 ADJUSTABLE PLATE DAMPER, BRIGHT DAMPER, 1/3" FIN SPACING WHITE FINISH

6x4

14x4

16x6

HART AND COOLEY/ 661

HART AND COOLEY/ 661

ADJUSTABLE DAMPER IN FACE, BRIGHT

ADJUSTABLE DAMPER IN FACE, BRIGHT

WHITE FINISH

WHITE FINISH

KEYED SHEET NOTES

CODE MINIMUM OSA LISTED ABOVE.

- 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. 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
- FRESH AIR INTAKE THRU WALL TO WALL CAP. DUCT EXHAUST UP THROUGH ROOF WITH RAIN-PROOF CAP.
- 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.
- 6" EXHAUST TO BE ROUTED DIRECTLY TO ROOF, AS ALLOWED PER OBC 714.4.1 FXCEPTION 1 UNDERCUT DOOR 1" ABOVE FINISHED FLOOR FOR RETURN/ MAKE UP AIR.
- DUCTED RETURN BETWEEN TRANSFER GRILLES TO AVOID EXPOSED WALL
- . 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. 10.1. 3' FROM PROPERTY LINE. 10.2. 3' FROM OPERABLE OPENINGS INTO BUILDING.
- 12.3 10' FROM MECHANICAL AIR INTAKE 1. 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. 2. DUCTED RETURN SLEEVE TO AVOID EXPOSED WALL CAVITY.
- 3. ROUTE EXHAUST DUCT UP IN JOIST POCKET. RATING SHALL BE MAINTAINED AROUND JOIST TO PREVENT FIRE DAMPER. REFER TO ARCHITECTURAL PLANS FOR DETAILS
- 14. RETURN DUCT UP TO FIRST FLOOR. 15. SUPPLY DUCT UP TO FIRST FLOOR. 16. FRESH AIR DUCT UP TO FIRST FLOOR.

HVAC DESIGN CONDITIONS RESIDENTIAL

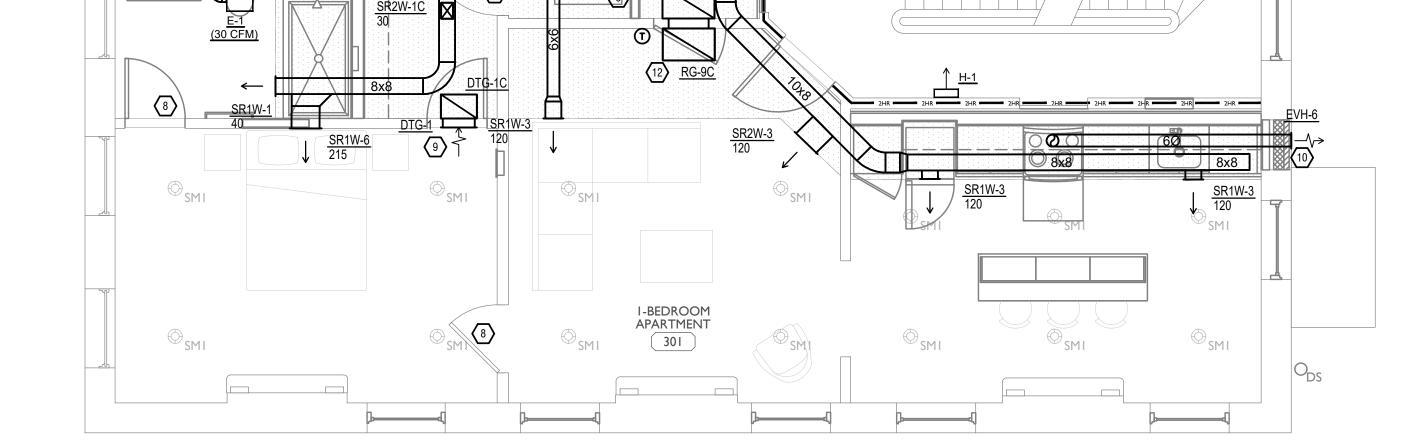
OUTDOOR: 93 DB / 75 WB OUTDOOR: 0 DB OUTDOOR: 93 DB / 75 WB OUTDOOR: 0 DB INDOOR: 70 INDOOR: 75 INDOOR: 72 INDOOR: 70

GENERAL NOTES

- B. COORDINATE ROUTING OF ALL WORK WITH OTHER TRADES.
- C. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER CONNECTIONS TO

- PROVIDE BACKDRAFT DAMPERS FOR ALL EXHAUST SYSTEMS AND EITHER
- 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
- MOUNT THERMOSTATS 60" ABOVE FINISHED FLOOR. MOUNT THERMOSTATS IN
- 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 CONTRACTORS.
- EXHAUST SYSTEMS. J.A. EXHAUST DUCTS SHALL HAVE A SMOOTH INTERIOR FINISH AND BE
- J.B. DUCT SIZE SHALL BE 4 INCHES NOMINAL DIAMETER. J.C. DUCTS SHALL BE SUPPORTED AT 4-FOOT INTERVALS AND SECURED IN
- DUCT OR FITTING IN THE DIRECTION OF AIRFLOW. J.D. DUCTS SHALL NOT BE JOINED WITH SCREWS OF SIMILAR FASTENERS THAT
- 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 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. SHALL INCLUDE 5' FOR 90 . LABEL/TAG MUST BE WITHIN 6' OF DRYER EXHAUST CONNECTION. DRYER EXHAUST DUCT FITTING EQUIVALENT FEET FOR A RADIUS MITERED 90-DEGREE ELBOW.

SYMBOLS LEGEND — HVAC					
Ū	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				
$\boxtimes \sim \sim$	FLEXIBLE DUCT, 8'-0" LONG MAX.				
<u> </u>	TYPICAL ROUND DUCT DN				
	ROUND DUCT UP				
	MVD MANUAL VOLUME DAMPER				
	DROPPED CEILING/SOFFIT				



STEEL 2-WAY REGISTER, MS DAMPER,

STEEL 2-WAY REGISTER, MS DAMPER,

1/3" FIN SPACING

1/3" FIN SPACING

SR2W-1C



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

- A. FOR FULL SCHEDULES, SPECIFICATIONS, AND COMPLETE LISTING SEE DETAIL
- 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.
- LOUVER, BRICK VENT, OR CAPS AT ALL EXTERIOR BUILDING PENETRATIONS.
- 307.2.2 OF THE OHIO MECHANICAL CODE.
- ADA UNITS 40" ABOVE FINISHED FLOOR.
- 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
- CONSTRUCTED OF METAL A MINIMUM OF 28 GAGE.
- PLACE. THE INSERT END OF THE DUCT SHALL EXTEND INTO THE ADJOINING
- PROTRUDE MORE THAN \$\frac{1}{2}\$ INCH INTO THE INSIDE OF THE DUCT.
- - ACCORDANCE WITH UL 2158A. TRANSITION DUCTS SHALL BE NOT GREATER
- J.H. PROVIDE A PERMANENT LABEL OR TAG (EQUAL TO DRYERPLACARD) INDICATING ACTUAL EQUIVALENT LENGTH OF EXHAUST DUCT. LENGTH LENGTH SHALL BE 2'-6" FOR A RADIUS MITERED 45-DEGREE ELBOW AND 5

31MDOL3 LI	STRIBOLS LEGEND - TIVAC					
(L)	THERMOSTAT					
\boxtimes	CEILING DIFFUSER					
→	SIDE WALL GRILL					
* \-	RETURN WALL GRILL					
~ \	AIR FLOW DIRECTION					
14x10	DUCTWORK					
\boxtimes	TYPICAL SUPPLY DUCT DN					
	TYPICAL RETURN DUCT DN					
X	TYPICAL EXHAUST DUCT					
ررد	TURNING VANES					
	FLEXIBLE DUCT, 8'-0" LONG MAX.					
<u> </u>	TYPICAL ROUND DUCT DN					
	ROUND DUCT UP					
7	MVD MANUAL VOLUME DAMPER					
	DROPPED CEILING/SOFFIT					

Job No: 22042

202 **w**

SEVERT

STILKEY

E-77755

Progress Dates

Revisions

04/28/2023 Permit

Checked By: SSS

ENGINEERED

TEAMWORK • COLLABORATION

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515 Monmouth Street, Suite 204

Newport, KY 41071 (859) 261-0585

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REPUBLIC

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Drawn by: RPG

6x4

14x4

16x6

HART AND COOLEY/ 661

HART AND COOLEY/ 661

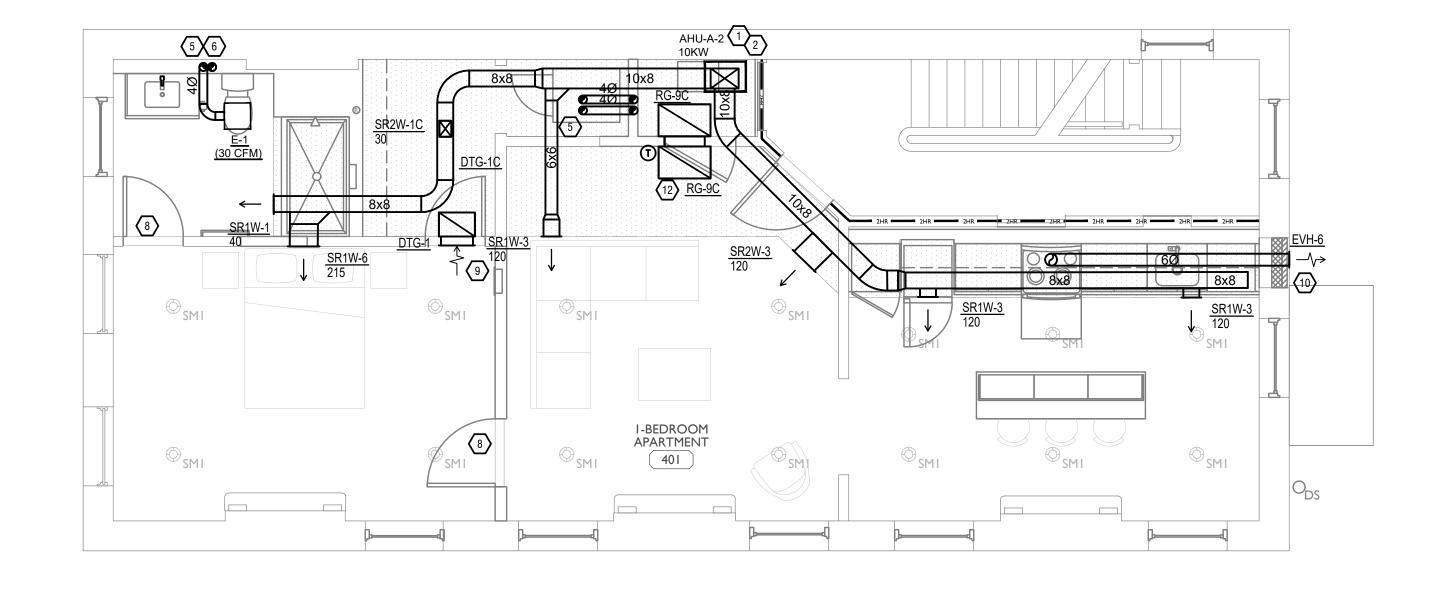
WHITE FINISH

WHITE FINISH

WHITE FINISH

ADJUSTABLE DAMPER IN FACE, BRIGHT

ADJUSTABLE DAMPER IN FACE, BRIGHT



DAMPER, 1/3" FIN SPACING

1/3" FIN SPACING

1/3" FIN SPACING

SR2W-1C

STEEL 2-WAY REGISTER, MS DAMPER,

STEEL 2-WAY REGISTER, MS DAMPER,

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
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- FRESH AIR INTAKE THRU WALL TO WALL CAP. DUCT EXHAUST UP THROUGH ROOF WITH RAIN-PROOF CAP.
- 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.
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2. DUCTED RETURN SLEEVE TO AVOID EXPOSED WALL CAVITY.

- 12.3 10' FROM MECHANICAL AIR INTAKE 1. 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.
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MECHANICAL SPECIFICATIONS FOR ADDITIONAL DETAILS.

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HVAC DESIGN CONDITIONS RESIDENTIAL OUTDOOR: 93 DB / 75 WB OUTDOOR: 0 DB OUTDOOR: 93 DB / 75 WB OUTDOOR: 0 DB

INDOOR: 70 INDOOR: 75

GENERAL NOTES

INDOOR: 72

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- 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 CONTRACTORS.
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SYMBOLS LEGEND — HVAC					
Ū	THERMOSTAT				
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→	SIDE WALL GRILL				
- \-	RETURN WALL GRILL				
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M	TYPICAL EXHAUST DUCT				
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$\boxtimes \sim \sim$	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)

INDOOR: 70

SEVERT STILKEY E-77755

202 **W**

Progress Dates 04/28/2023 Permit

Revisions

Checked By: SSS Drawn by: RPG

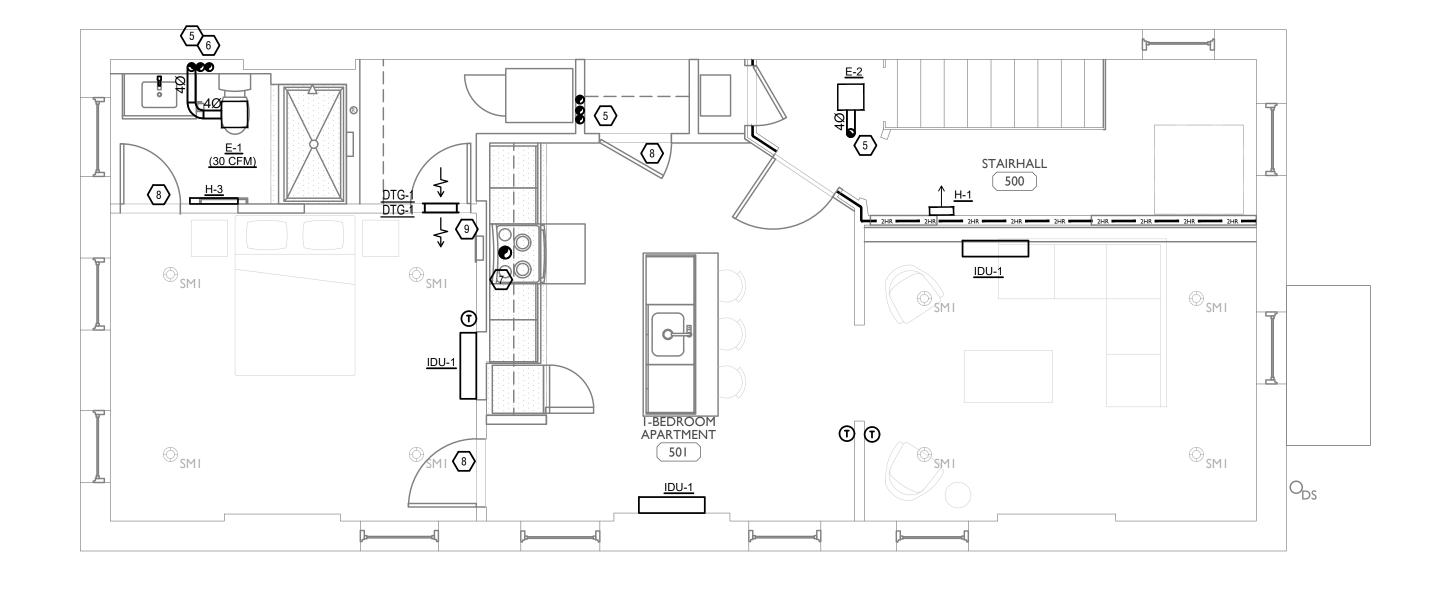
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REPUBLIC 808

CALLOUT	DESCRIPTION	FACE SIZE (IN)	INLET SIZE (IN)	MODEL	NOTES
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
DVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED DRYER VENT.	6x7	4Ø	FAMCO DWVP	BACKDRAFT DAMPER/ANGLED HOOD.
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-3	FLOOR REGISTER, ALL-STEEL CONSTRUCTION, 75% FREE AREA, TOE-OPERATED VALVE CONTROL	10x8	8x6	HART AND COOLEY/ 210	
FR-6	FLOOR REGISTER, ALL-STEEL CONSTRUCTION, 75% FREE AREA, TOE-OPERATED VALVE CONTROL	14x8	12x6	HART AND COOLEY/ 210	GOLDEN SAND ENAMEL FINISH
FRG-1	RETURN AIR FILTER GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	26x10	24x8	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-9C	RETURN AIR GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	26x16	24x14	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
SR1W-1	STEEL 1-WAY REGISTER, PLATE DAMPER, 1/3" FIN SPACING	10x6	8x4	HART AND COOLEY/ 651	ADJUSTABLE PLATE DAMPER, BRIGHT WHITE FINISH
SR1W-3	STEEL 1-WAY REGISTER, PLATE DAMPER, 1/3" FIN SPACING	10x8	8x6	HART AND COOLEY/ 651	ADJUSTABLE PLATE DAMPER, BRIGHT WHITE FINISH
SR1W-6	STEEL 1-WAY REGISTER, PLATE DAMPER, 1/3" FIN SPACING	16x8	14x6	HART AND COOLEY/ 651	ADJUSTABLE PLATE DAMPER, BRIGHT WHITE FINISH
SR2W-1C	STEEL 2-WAY REGISTER, MS DAMPER, 1/3" FIN SPACING	8x6	6x4	HART AND COOLEY/ 661	ADJUSTABLE DAMPER IN FACE, BRIGHT WHITE FINISH
SR2W-3	STEEL 2-WAY REGISTER, MS DAMPER, 1/3" FIN SPACING	16x6	14x4	HART AND COOLEY/ 661	ADJUSTABLE DAMPER IN FACE, BRIGHT WHITE FINISH



⟨𝔻⟩ 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. 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.
- 4. FRESH AIR INTAKE THRU WALL TO WALL CAP. 5. DUCT EXHAUST UP THROUGH ROOF WITH RAIN-PROOF CAP.
- 6. 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.
- 7. 6" EXHAUST TO BE ROUTED DIRECTLY TO ROOF, AS ALLOWED PER OBC 714.4.1 EXCEPTION 1. UNDERCUT DOOR 1" ABOVE FINISHED FLOOR FOR RETURN/ MAKE UP AIR.
- 9. DUCTED RETURN BETWEEN TRANSFER GRILLES TO AVOID EXPOSED WALL
- 0. 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. 10.1. 3' FROM PROPERTY LINE. 10.2. 3' FROM OPERABLE OPENINGS INTO BUILDING.
- 12.3 10' FROM MECHANICAL AIR INTAKE 11. 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. 12. DUCTED RETURN SLEEVE TO AVOID EXPOSED WALL CAVITY.
- 13. ROUTE EXHAUST DUCT UP IN JOIST POCKET. RATING SHALL BE MAINTAINED AROUND JOIST TO PREVENT FIRE DAMPER. REFER TO ARCHITECTURAL PLANS
- FOR DETAILS. 14. RETURN DUCT UP TO FIRST FLOOR.
- 15. SUPPLY DUCT UP TO FIRST FLOOR. 16. FRESH AIR DUCT UP TO FIRST FLOOR.

HVAC DESIGN CONDITIONS COOLING
OUTDOOR: 93 DB / 75 WBHEATING
OUTDOOR: 0 DBCOOLING
OUTDOOR: 93 DB / 75 WBHEATING
OUTDOOR: 0 DB

INDOOR: 70 INDOOR: 75

GENERAL NOTES

INDOOR: 72

- 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.
- 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 CONTRACTORS.
- 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 \$\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 LEGEND — HVAC					
T	THERMOSTAT				
\boxtimes	CEILING DIFFUSER				
→	SIDE WALL GRILL				
«\ <u></u>	RETURN WALL GRILL				
€_	AIR FLOW DIRECTION				
14x10	DUCTWORK				
	TYPICAL SUPPLY DUCT DN				
	TYPICAL RETURN DUCT DN				
N N	TYPICAL EXHAUST DUCT				
رري	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)

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

INDOOR: 70

SEVERT E-77755

202 **W**

Progress Dates 04/28/2023 Permit

Checked By: SSS

Drawn by: RPG



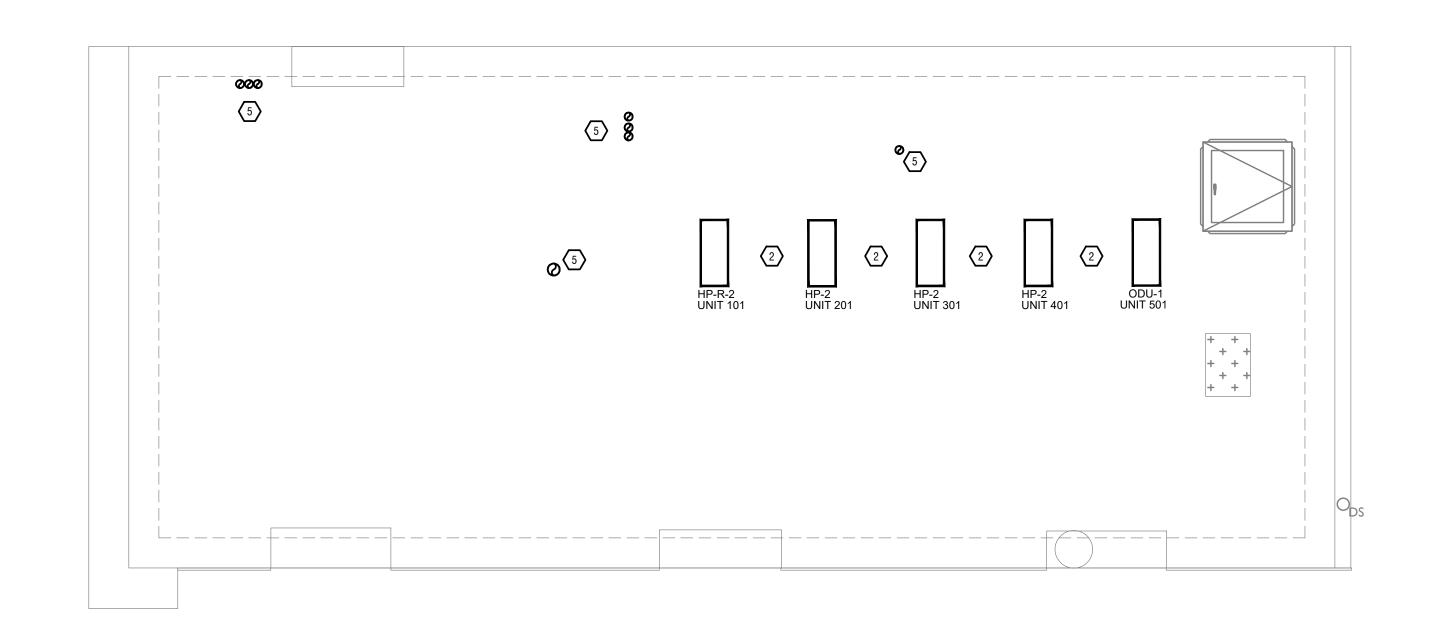
TEAMWORK • COLLABORATION SHARED SUCCESS 515 Monmouth Street, Suite 204 Newport, KY 41071 (859) 261-0585 MEP Consulting Services, Inc. in OH

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1808 REPUBLIC RENO

CALLOUT	DESCRIPTION	FACE SIZE (IN)	INLET SIZE (IN)	MODEL	NOTES
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
DVH-4	28 GAUGE GALVANIZED STEEL. PRE-PAINTED DRYER VENT.	6x7	4Ø	FAMCO DWVP	BACKDRAFT DAMPER/ANGLED HOOD.
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-3	FLOOR REGISTER, ALL-STEEL CONSTRUCTION, 75% FREE AREA, TOE-OPERATED VALVE CONTROL	10x8	8x6	HART AND COOLEY/ 210	
FR-6	FLOOR REGISTER, ALL-STEEL CONSTRUCTION, 75% FREE AREA, TOE-OPERATED VALVE CONTROL	14x8	12x6	HART AND COOLEY/ 210	GOLDEN SAND ENAMEL FINISH
FRG-1	RETURN AIR FILTER GRILLE, ALL-STEEL CONSTRUCTION, 1/3" SPACED FINS AT 20 DEGREES	26x10	24x8	HART AND COOLEY/ 265	GOLDEN SAND ENAMEL FINISH
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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.
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CODE MINIMUM OSA LISTED ABOVE.

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- 12. DUCTED RETURN SLEEVE TO AVOID EXPOSED WALL CAVITY. 13. ROUTE EXHAUST DUCT UP IN JOIST POCKET. RATING SHALL BE MAINTAINED
- AROUND JOIST TO PREVENT FIRE DAMPER. REFER TO ARCHITECTURAL PLANS FOR DETAILS. 14. RETURN DUCT UP TO FIRST FLOOR.
- 15. SUPPLY DUCT UP TO FIRST FLOOR. 16. FRESH AIR DUCT UP TO FIRST FLOOR.

MECHANICAL SCOPE OF WORK IS TO PROVIDE NEW HVAC EQUIPMENT TO RESIDENTIAL 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

COOLING
OUTDOOR: 93 DB / 75 WBHEATING
OUTDOOR: 0 DBCOOLING
OUTDOOR: 93 DB / 75 WBHEATING
OUTDOOR: 0 DB 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.
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- 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
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- MOUNT THERMOSTATS 60" ABOVE FINISHED FLOOR. MOUNT THERMOSTATS IN ADA UNITS 40" ABOVE FINISHED FLOOR.
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- 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 LEGEND — HVAC					
T	THERMOSTAT				
	CEILING DIFFUSER				
→	SIDE WALL GRILL				
«\- «\-	RETURN WALL GRILL				
← \}_	AIR FLOW DIRECTION				
14×10	DUCTWORK				
	TYPICAL SUPPLY DUCT DN				
	TYPICAL RETURN DUCT DN				
N N	TYPICAL EXHAUST DUCT				
ررد	TURNING VANES				
\boxtimes ~~	FLEXIBLE DUCT, 8'-0" LONG MAX.				
Ø_	TYPICAL ROUND DUCT DN				
	ROUND DUCT UP				
	MVD MANUAL VOLUME DAMPER				
	DROPPED CEILING/SOFFIT				



MECHANICAL SCOPE OF WORK (PLAN REVIEW ONLY)

SEVERT E-77755

202 **w**

Progress Dates 04/28/2023 Permit

Checked By: SSS Drawn by: RPG

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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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1808 REPUBLIC

System	Outdoor Unit Tag	Model	Volts	Phase	MCA 208 Amps	MOCP Amps	Outdoor Unit Weight Ib	Indoor Unit Tag	Indoor Coil	ESP	Air Flow CFM	Cool Cap Total Btuh		SEER 2		Htg Cap 47 deg Btuh		HSPF 2	Elec Heat Model		Elec Heat KW (208) KW	1208 MCA	230 MCA Amps	MOCP 208 Amps	MOCP 230 Amps	Indoor Unit Weight Ib	Notes
2 Ton 10KW	HP-R-2	N4H5S24AKAAA	208/230	1	14.5	25	159	AHU-R-2 (10KW)	FJMA4X24	0.50	876	23600	18690	15.2	12.5	23600	14400	7.5	EHC10BKB1	10	7.5	53.8	58.5	60	60	135	1-6

1 Adjustable Support Feet 2 Hard Start Kit (Capacitor and Relay 3 Crankcase Heater for Scroll Compressor 4 Low Ambient Isolation Relay Kit 5 Low Ambient Pressure Switch

6 Evaporator Freeze Thermostat

	INDOOR SPLIT SYSTEM SCHEDULE												
TAG	TAG AREA SERVED MANUFACTURER MODEL COOLING CAPACITY 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		
. WIRED REMOTE CONTROLLER PREMTA200 (7-DAY PROGRAMMABLE)													

	OUTDOOR MINI SPLIT SYSTEM SCHEDULE														
TAG	AREA SERVED	MANUFACTURER	MODEL	CLG-MBH	NOMINAL TONS	MIN SEER	HEAT-MBH	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	1-3
PROVI	DE AD ILISTARI E EO	LIPMENT SUPPOR	TS			-									

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

				NUMBER		ACTUAL
		UNIT	AREA (SQ.	OF	VENT. AIR REQ	(. WHOLE
		ONIT	FT.)	BEDROOM	И Qfan (Eq. 4.1a)	BUILDING
				S		VENTILATION
		101	689	1	22	30
		201	735	1	22	30
		301	735	1	22	30
		401	735	1	22	30
		501	750	1	23	30
			·		·	
MON AREAS:MECHANICAL VENTILATION CALCULATION	ON	BA	THROOM FAN	SPEED S	SETTING SCH	EDULE
SCHEDULE * (ASHRAE 62.1 LEED PURPOSES ONLY)		TYPICAL	ROOMNAN	/IE	MINIMUM SPEED	MAXIMUM SPEED

RESIDENTIAL UNITS: MECHANICAL VENTILATION CALCULATION SCHEDULE * (ASHRAE 62.2 LEED PURPOSES ONLY)

COMM ROOMNAME 101 BATHROOM 30 80 AREA (SQ. FT.) BATHROOM CFM BUILDING 301 BATHROOM VENTILATION BATHROOM ENTRY/STAIRWELL/CORRIDOR BATHROOM

	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	30-80	0.25	17	1131	115/60/1	CEILING	12	1,2,3,4	
E-2	EXHAUST	STAIRWELL	PANASONIC	FV-05-11VKS2	DIRECT	50	0.25	17	1131	115/60/1	CEILING	12	2,3,4,5	
4 FANCI	TALL DUNLOONTINUE	NICLY AT LOVA	CDEED (20 CEM) AI			IICH CDEED (OO CI	- N A A A A A A A A A A A A A A A A A A	N CVA/ITCI	LIC TUDA	IED ON DDO	/IDE ALL DEL	EV/ANT		

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

ACCESSORIES.

*EXHAUST CALCULATIONS PER OMC 2017 TABLE 403.3.1.1

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 (50 CFM)

		MECHANICAL EXH	AUST:	SCHEDULE -	2017 OHIO M	ECHANICAL	CODE			
ROOM NUMBER/UNIT TYPICAL	ROOMNAME	OCCUPANCY CLASSIFICATION	AREA (ft2)	EXHAUST AIRFLOW RATE (CFM/ft2)	EXHAUST RATE PER FIXTURE (CFM)	LOWER	JRES HIGHER INTERMITTENT RATE?	QTY. OF FIXTURES	TOTAL EXHAUST AIRFLOW REQ. (CFM)	TOTAL EXHAUST AIRFLOW ACT. (CFM)
	BATHROOM	PRIVATE DWELLING - TOILET ROOMS	-	-	30/80	YES	NO	1	30	30

		1	808 REPUBL	IC/1810 REF	PUBLIC			
UNIT	ROOM NAME	AREA	DOOR OPENABLE AREA [SQ. FT]	WINDOW OPENABLE AREA [SQ. FT]	UNOBSTRUCED OPENING	TOTAL OPENABLE AREA	4% OF FLOOR AREA	8% FLOO
101	LIVING	357	31	36	N/A	67	14	
101	BEDROOM	146	0	24	N/A	24	6	
201	LIVING	492	0	107	N/A	107	20	
201	BEDROOM	182	0	36	N/A	36	7	
301	LIVING	492	0	107	N/A	107	20	
301	BEDROOM	182	0	36	N/A	36	7	
401	LIVING	492	0	107	N/A	107	20	
401	BEDROOM	182	0	36	N/A	36	7	
501	LIVING	492	0	107	N/A	107	20	
501	BEDROOM	182	0	36	N/A	36	7	

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.

				HEATE	RS							
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	NOTI		
DE-1	BASEMENT	APRILAIRE	1850	95	8	15	120/1	FLOOR	70	1,2,3		
1 FNFR	I ENERGY STAR RATED											

2. DEHUMIDICATION COLTROL 3. CORD AND PLUG CONNECTION. 4. PROVIDE LOW PROFILE CONDENSATE PUMP

	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-2															

DUCT INSULATION SCHEDULE

N/A

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

ITEMS NOT REQUIRED TO BE INSULATED: FIBROUS-GLASS DUCTS, DUCTS WITH LINER THAT MEETS

CONTROL DEVICES, FACTORY-INSULATED ACCESS

ASHRAE 90.1, FACTORY-INSULATED FLEXIBLE DUCTS, FACTORY-INSULATED PLENUMS AND CASINGS, FLEX CONNECTORS, VIBRATION-

R-3.5

R-3.5

LISTED ABOVE.

PANELS AND DOORS.

AIR DISTRIBUTION TYPE
SA RA ADDITIONAL NOTES

INTERIOR WALL PARTITION FLOOR CEILING ASSEMBLY ASTME E 119 OR UL 263 TESTED FIRE CAULKING INTERIOR WALL PARTITION	WALL THICKNESS OF 0.0187 INCHES (NO. 26 GAGE). 1.2. THE DUCT SHALL OPEN INTO ONLY ONE DWELLING OR SLEEPING UNIT AND THE DUCT SYSTEM SHALL BE CONTINUOUS FROM THE UNIT TO THE EXTERIOR OF THE BUILDING. 1.3. THE DUCT SHALL NOT EXCEED 4-INCH NOMINAL DIAMETER AND THE TOTAL AREA OF SUCH DUCTS SHALL NOT EXCEED 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF FLOOR AREA. 1.4. THE ANNULAR SPACE AROUND THE DUCT IS PROTECTED WITH MATERIALS THAT PREVENT THE PASSAGE OF FLAME AND HOT GASES SUFFICIENT TO IGNITE COTTON WASTE WHERE SUBJECTED TO ASTM E 119 OR UL 263 TIME TEMPERATURE 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. 9.5. GRILLE OPENINGS LOCATED IN A CEILING OF A FIRE-RESISTANCE-RATED FLOOR/CEILING OR ROOF/CEILING ASSEMBLY SHALL BE PROTECTED WITH A LISTED CEILING RADIATION DAMPER INSTALLED IN ACCORDANCE WITH SECTION 717.6.2.1. (NOT APPLICABLE)
DUCT PENETRATION THROUGH SCALE: NTS	RATED FLOOR 7

DUCT SUPPORTS (NOTE 2) ### A MIN ### DAMPER, NO SCREEN ### DUCT CONNECTION (NOTE 2) ### THRU PENETRATION ### FIRESTOP, REFER TO ENGINEERING DETAIL. ### DAMPER ### DUCT CONNECTION (NOTE 2) ### DAMPER, NO SCREEN ### DUCT CONNECTION (NOTE 2)	TABLE 504.8.4.1 DRYER EXHAUST DUCT FITTING EQUIVALENT LENGTH DRYER EXHAUST DUCT FITTING TYPE 4" radius mitered 45-degree elbow 2 feet 6 inches 4" radius mitered 90-degree elbow 2 feet 6 inches 6" radius mitered 90-degree elbow 2 feet 6 inches 6" radius mitered 90-degree elbow 2 feet 6 inches 8" radius mitered 45-degree elbow 2 feet 6 inches 8" radius mitered 45-degree elbow 2 feet 6 inches 8" radius mitered 45-degree elbow 2 feet 6 inches 8" radius mitered 45-degree elbow 2 feet 6 inches 10" radius mitered 45-degree elbow 10" radius mitered 45-degree elbow 1
COMBO WID OR STACKED W/D BY FUTURE TENANT TENANT TO SEEK APPROVIAL FROM LANDLOOF FOR DRYPE PG APABILITIES FRIOR TO OCCUPANCY.	4-INCHES IN DIAMETER (SÈCTION 504.8.1). 2. DUCT INSTALLATION. SUPPORT EXHAUST DUCTS AT 4 FT. INTERVALS AND SECURE IN PLACE. SECURE WITH ALUMINUM FOIL DUCTWORK TAPE. IF USING SCREWS OR POP-RIVETS THEY MUST PROTRUDE NO MORE THAN 1/8 INCH INTO THE INSIDE OF THE DUCT (SECTION 504.8.2). 3. TRANSITION DUCTS. TRANSITION DUCT TO CONNECT THE DRYER TO THE EXHAUST DUCT SYSTEM MUST BE A SINGLE LENGTH LISTED/ LABELED PER UL2158. TRANSITION DUCT MUST BE NO MORE THAN 8 FT. LONG AND CANNOT BE CONCEALED WITHIN CONSTRUCTION. (SECTION 504.8.3). 4. DUCT LENGTH. THE MAXIMUM ALLOWABLE EXHAUST SHALL BE DETERMINED BY ONE OF THE METHODS IN SECTIONS 504.8.4.1 THROUGH 504.8.4.3. 4.1. 504.8.4.1 SPECIFIED LENGTH: THE MAX LENGTH OF EXHAUST DUCT IS 35 FEET FROM CONNECTION TO TRANSITION DUCT FROM DRYER TO OUTLET. THE MAXIMUM LENGTH OF THE EXHAUST DUCT IS REDUCED FROM FITTINGS USED ACCORDING TO TABLE 504.8.4.1 ABOVE. 4.2. 504.8.4.2 MANUFACTURER'S INSTRUCTIONS: THE MAX LENGTH OF THE EXHAUST DUCT WILL BE DETERMINED BY THE INSTALLATION INSTRUCTIONS WHICH ARE PROVIDED BY THE DRYER MANUFACTURER (IF APPLICABLE). 4.3. 504.8.4.3 DRYER EXHAUST DUCT POWER VENTILATOR LENGTH: THE MAX LENGTH OF DRYER EXHAUST DUCT POWER VENTILATOR MANUFACTURER'S INSTALLATION INSTRUCTIONS (IF APPLICABLE). 5. LENGTH IDENTIFICATION. IF THE EXHAUST DUCT EXCEEDS 35 FT. THE EQUIVALENT LENGTH OF DUCT SHALL BE SHOWN ON A PERMANENT LABEL/TAG. LABEL/TAG. LABEL/TAG TO BE PLACED WITHIN 6FT. OF EXHAUST DUCT SHALL BE SHOWN ON A PERMANENT LABEL/TAG. LABEL/TAG TO BE PLACED WITHIN 6FT. OF EXHAUST DUCT SYSTEM IS INSTALLED FOR FUTURE USE, THE EXHAUST DUCT SYSTEM IS INSTALLED FOR FUTURE USE, THE EXHAUST DUCT SYSTEM IS INSTALLED FOR FUTURE USE, THE EXHAUST DUCT SYSTEM IS INSTALLED FOR FUTURE USE, THE EXHAUST DUCT SYSTEM IS INSTALLED FOR FUTURE USE, THE EXHAUST DUCT SYSTEM IS INSTALLED FOR FUTURE USE, THE EXHAUST DUCT SHALL BE CAPPED AT FUTURE DRYER LOCATION. (SECTION 504.8.6).

DRYER EXHAUST DUCT DETAIL

∠36" MINIMUM

APARTMENT AHU DETAIL (TOP VIEW)

APARTMENT AHU DETAIL (SIDE VIEW)

NOT TO SCALE

NOT TO SCALE

FLEX CONNECTOR -

-DOOR. MIN. 30"

SUPPLY DUCT IN SOFFIT SPACE. COORDINATE WITH

ARCHITECTURAL SHEETS.

AIR HANDLING UNIT (AHU)

RACK REFRIGERANT LINE SETS

FLOOR ABOVE

ON SIDE WALL OF MECHANICAL ROOM

-----RETURN GRILLE

— AIR HANDLING UNIT (AHU)

CONNECTION.

CONDENSATE DRAIN WITH P-TRAP.

ROUTE TO NEAREST DRAIN AND

CONNECT WITH AN INDIRECT

DUCT SLEEVE

*VENTILATION CALCULATIONS PER OMC 2017 TABLE 403.3.1.1

DEHUMIDIFIER SCHEDULE													
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. ENER	GY STAR RATED).	1000			10	120/1	TEOOK	10	.,			

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	МСА	МОСР	Indoor Unit Weight
	ļ				Amps	Amps	lb		'	in wg.	cfm	Btuh	Btuh			kW	kW	Btuh	Btuh		Amps	Amps	lb
2 Ton 10KW	HP-2	DLCSRBH24AAK	208/230	1	25	35	135	AHU-A-2 (10KW)	FMA4X2400AL	0.50	763	21800	18110	15	11.5	10	7.2	26,200	16,000	10	47.6	60	103
**Requires Pipin	Requires Piping Adaptor Kit 1174192 and 24V interface KSAIC0401230																						

MECHANICAL DETAILS

202 **W** STILKEY

Progress Dates 04/28/2023 Permit

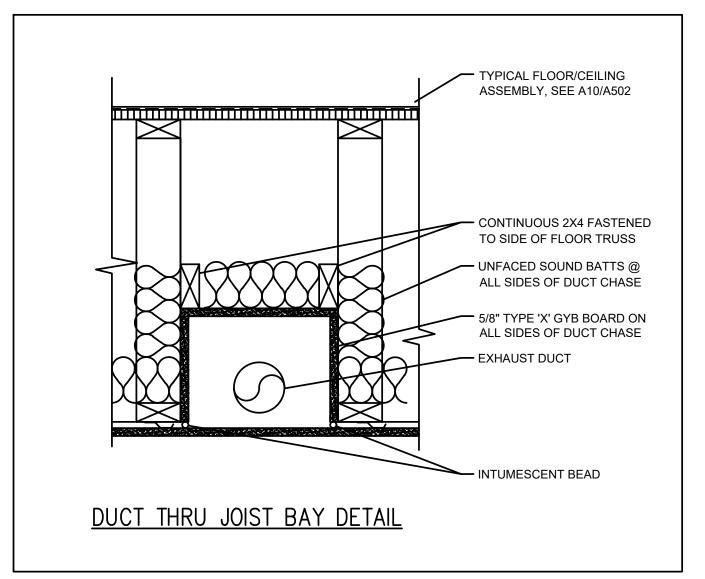
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S REPUBLIC 0 ∞ ST

REPUBLIC 808



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.

General

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.

Codes 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. 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.

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

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.

Record Drawing

a. The mechanical contractor shall be responsible for creating record drawings where required. Drawings shall be produced in Autocad 2004 format or later

b. The mechanical contractor shall be responsible for creating record drawings in a format agreed upon by 3CDC, ZHx, and the contracting parties.

11. Testing

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.

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

14. 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.

16. 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 when tested according to UL 723

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).

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.

24. Duct Manual Volume Dampers

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. 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.

30. Piping Supports (Metal Pipe)

pump fails.

A.Furnish and install hot-dipped galvanized steel fasteners, hangers, anchors, rods, straps, trim and angles for support of

piping. 31. Piping Supports (Plastic Pipe)

A. Furnish and install hangers for plastic piping per manufacturer's requirements.

32. 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 33. Commissioning

a. 3CDC has hired ZHCx to act as their commissioning provider. The commissioning process will be implemented on the

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

b. ZHCx will conduct onsite observations throughout construction. ZHCx shall be notified prior to any ductwork being

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.

34. 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

•E-X: exhaust fan shall run on a wall switch (provided by the electrical contractor).

Split Systems AHU/HP-2:

Exhaust Fans

•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. •IDU/ODU-1:

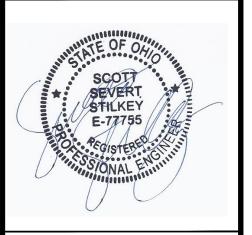
• Heating mode - indoor unit shall be controlled from a thermostat in the space. When the thermostat calls for heating the fan shall run and the heat pump in heating mode shall run to maintain temperature setpoint

• 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 ●DEH-1

dehumidifier shall energize and begin to dehumidify the space. When the humidity setpoint is reached the

•Dehumidifier shall be controlled from an integral humidistat. When the humidity of the space rises above set point the

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Progress Dates 04/28/2023 Permit

Revisions

Checked By: SSS

Drawn by: RPG



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ENGINEERED

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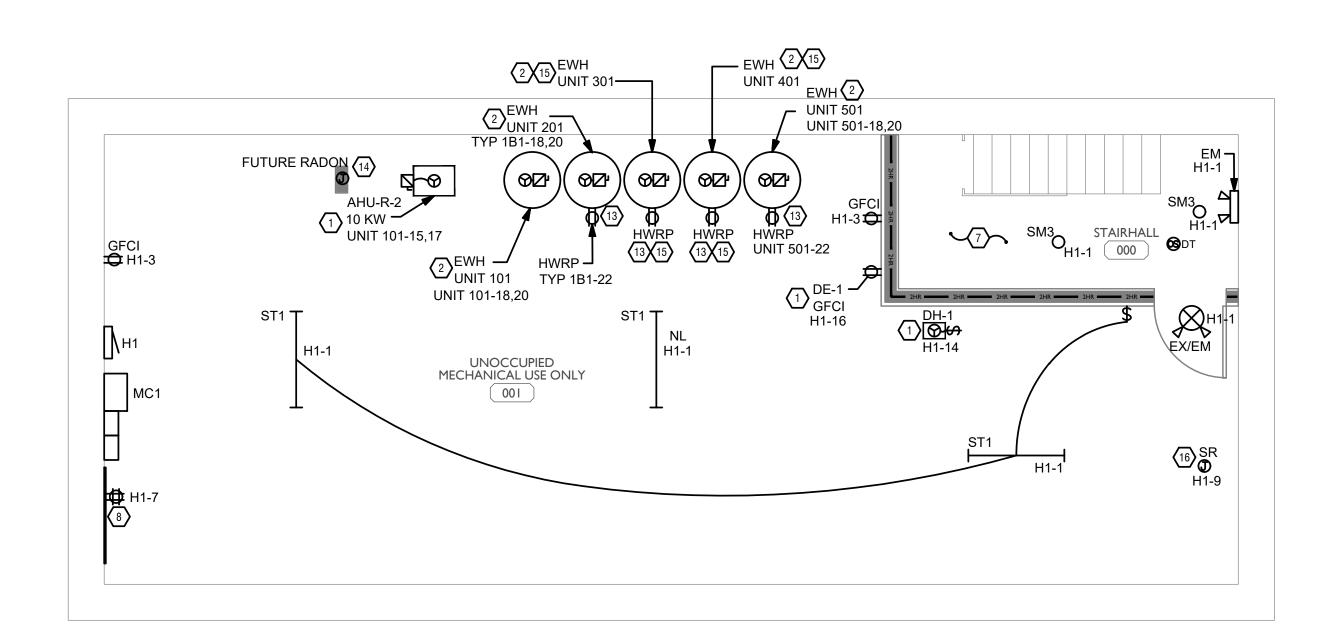
SPECIFIC PURPOSE FOR WHICH IT WAS PREPARE WITHOUT WRITTEN CONSENT OF ENGINEERED BUILDING SYSTEMS, INC. S $\mathbf{\Omega}$ Ш 0

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Job No: 22042

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- 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
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- 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 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 FIELD 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 OF THE WALL. PROVIDE TAMPER PROOF RECEPTACLES AS REQUIRED BY NEC ART. 406.12

| SCOPE OF

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.

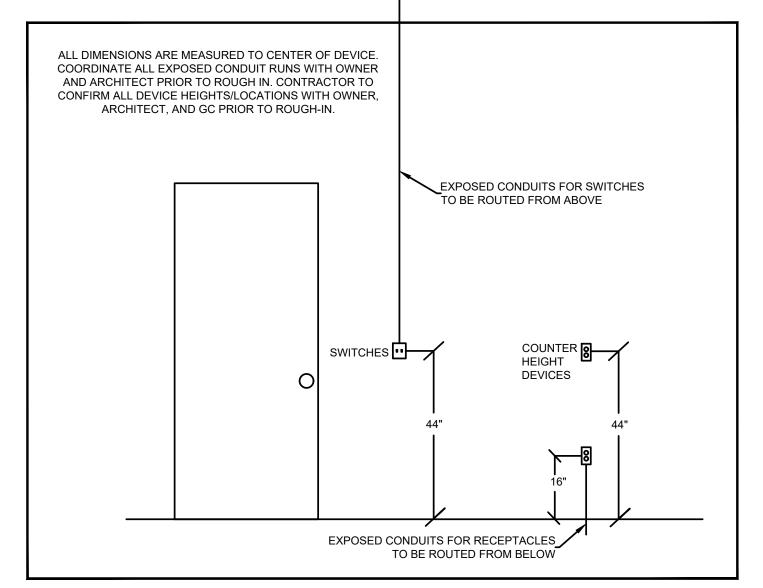
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- A. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR DIMENSIONED LOCATIONS OF LIGHT FIXTURES.
- B. PROVIDE HOLD-ON-TYPE BREAKERS FOR EGRESS/EMERGENCY LIGHTING CIRCUITS. WIRE ALL EGRESS/EMERGENCY FIXTURES AHEAD OF ANY LOCAL SWITCHING.
- C. LIGHT FIXTURES CONTROLLED BY SWITCH IN SAME ROOM UNLESS OTHERWISE NOTED.
- D. 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.
- 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 BOXES.

- 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. PROVIDE SWITCH AND CONNECTION FOR CONTINUOUSLY RUNNING 2-SPEED BATHROOM FAN. VERIFY REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- 4. PROVIDE HARD-WIRED SMOKE DETECTORS WITH BATTERY BACK-UP AS REQUIRED. ONE SMOKE DETECTOR IN EACH UNIT MUST BE A SMOKE/CO DETECTOR COMBO.
- DISHWASHER MUST BE GFCI PROTECTED PER NEC 210.8(D) RECEPTACLE SHALL BE LOCATED IN AN ACCESSIBLE LOCATION.
- 6. MICROWAVE RECEPTACLE LOCATED IN CABINET ABOVE, COORDINATE LOCATION WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
- 7. CORRIDOR LIGHTS TO BE CONTROLLED BY OCCUPANCY SENSOR UNLESS OTHERWISE NOTED.
- 8. LOCATION OF BUILDING UTILITY DATA DEMARC. PROVIDE A 4'X4'X³/₄" PLYWOOD BACKBOARD FOR DATA/PHONE UTILITIES. COORDINATE ALL REQUIREMENTS WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN. PROVIDE DEDICATED QUAD RECEPTACLE AS SHOWN.
- 9. EXTERIOR LIGHTING ON PHOTOCELL. CONFIRM LOCATION OF PHOTOCELL DEVICE WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN.
- COORDINATE LOCATION AND REQUIREMENTS OF BUILDING CALL BOX WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN.
- 11. INSTALL FIOPTIC 4-GANG AND QUAD OUTLET IN CABINET ABOVE REFRIGERATOR AS SHOWN.
- 12. COORDINATE TV RECEPTACLE AND DATA LOCATIONS WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN.
- 13. HOT WATER CIRCULATION PUMP HARDWIRED CIRCUIT CONNECTION. COORDINATE LOCATION WITH PLUMBING CONTRACTOR. PRIOR TO ROUGH-IN
- 14. LOCATION OF FUTURE RADON, PROVIDE JUNCTION BOX FOR FUTURE RADON FAN, FAN NOT TO BE INSTALLED AT THIS TIME.
- 15. UNIT WIRED TO TYPICAL "1B1" REFER TO PANEL SCHEDULE FOR LOAD DATA. SEE UNIT 201 FOR CIRCUITRY LAYOUT.
- 16. PROVIDE 120 VOLT DEDICATED CIRCUIT FOR SPRINKLER RISER TAMPER AND FLOW SWITCH. COORDINATE LOCATION WITH FIRE PROTECTION CONTRACTOR.
- 17. DUCTLESS INDOOR UNIT POWERED FROM OUTDOOR UNIT. CONFIRM LOCATION AND DISCONNECTING MEANS WITH INSTALLING CONTRACTOR.

GENERAL NOTES-POWER

- A. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT/CABLE ROUTING. COORDINATE ROUTING WITH ALL OTHER TRADES AND BUILDING
- 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 NEMA 3R.
- 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.
- F. 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 HEIGHTS
- H. 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.
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STANDARD MOUNTING HEIGHTS



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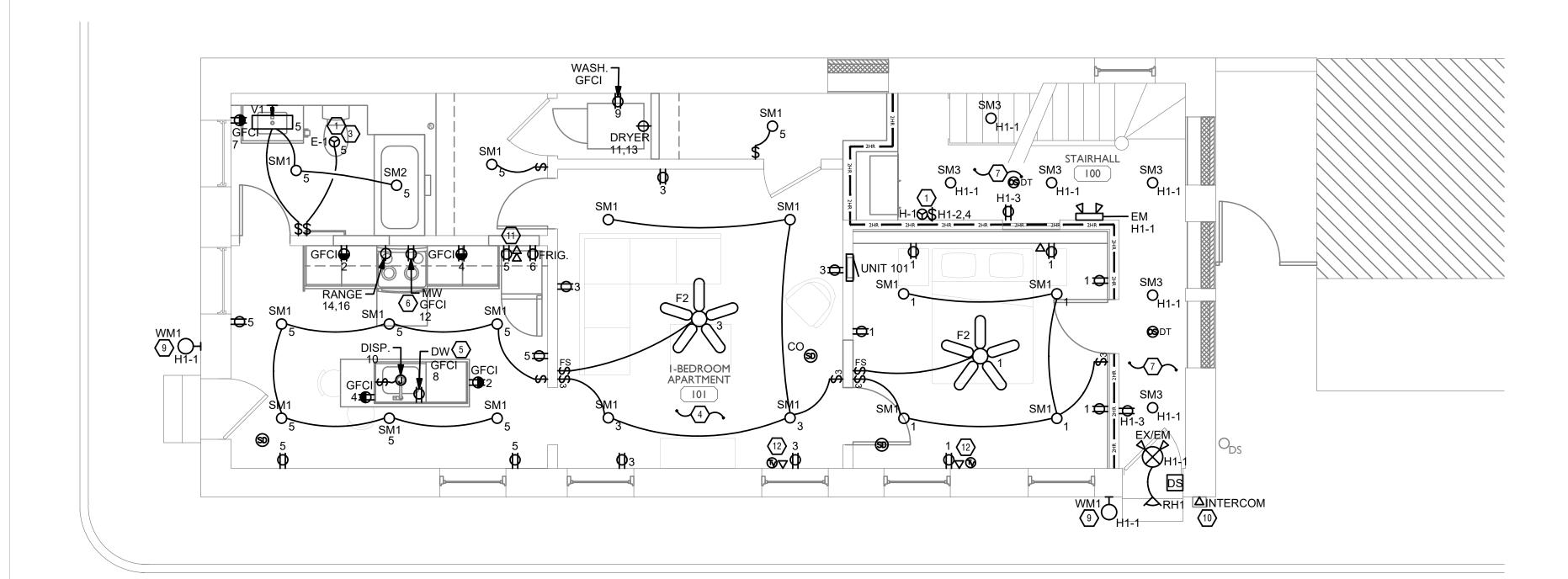
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⟨#⟩ KEYED SHEET NOTES

PRIOR TO ROUGH-IN.

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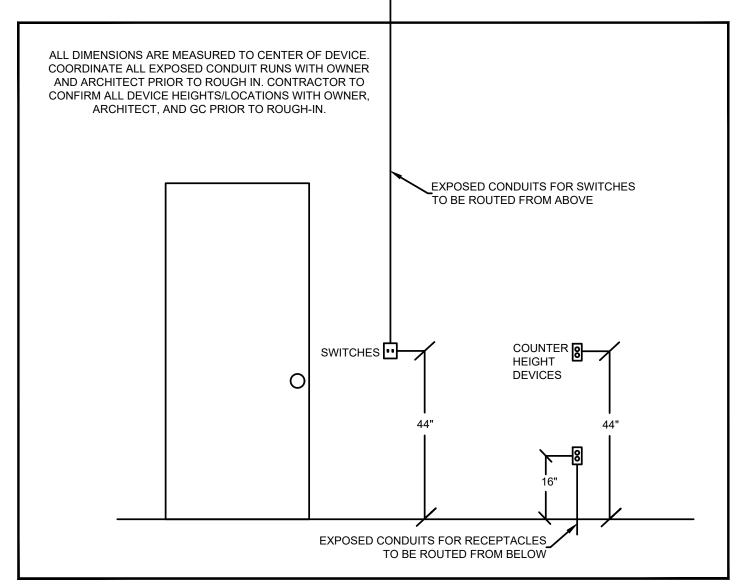
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1810 REPUBLIC ST

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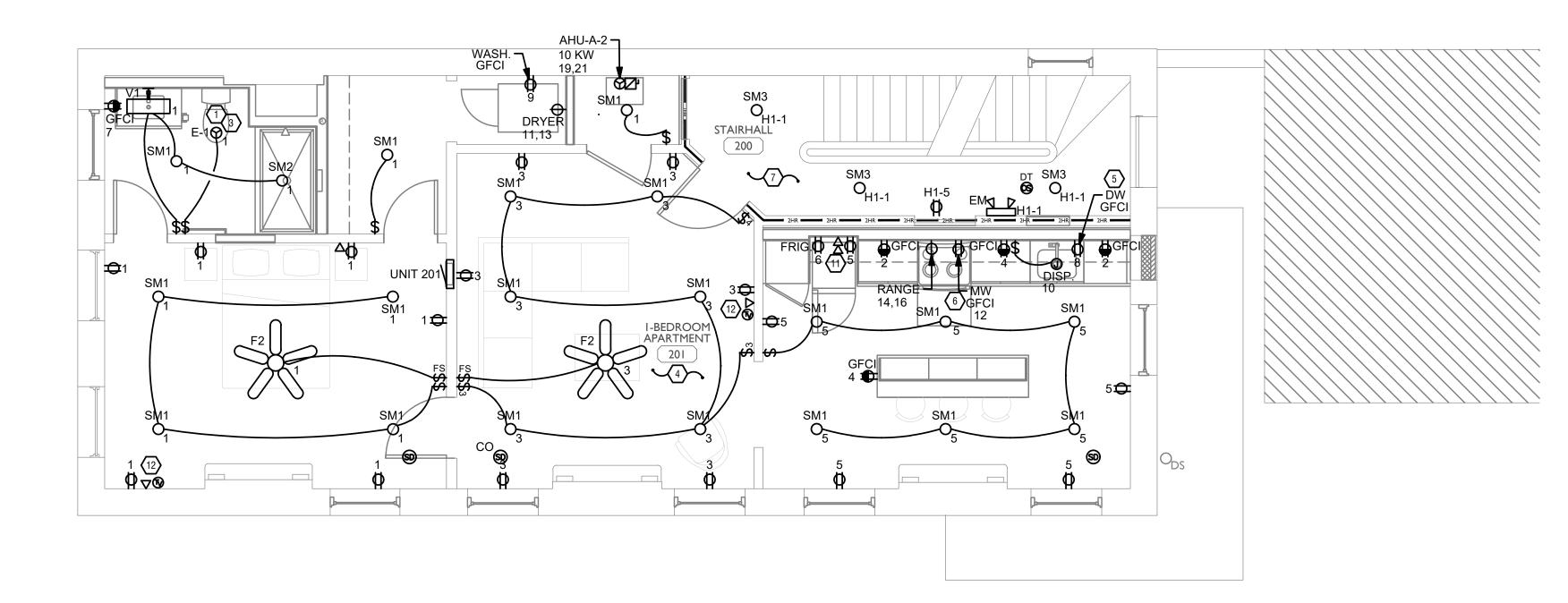
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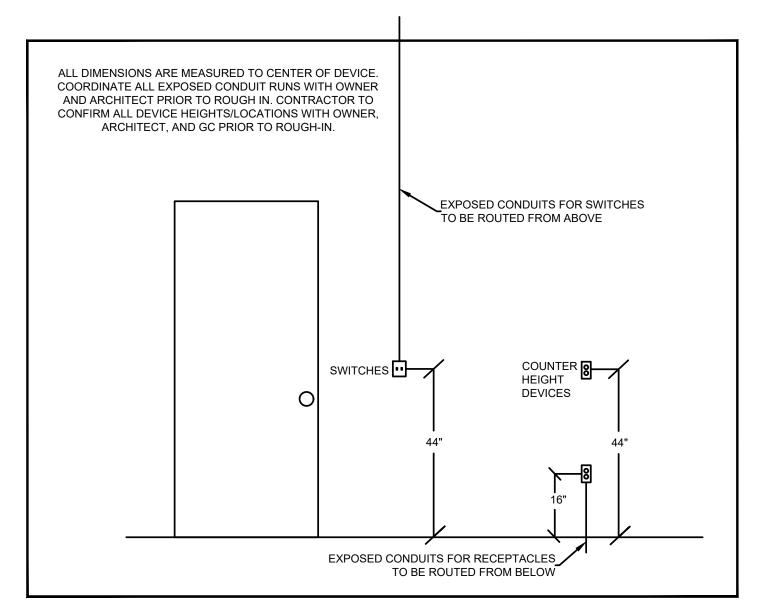
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- A. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR DIMENSIONED LOCATIONS OF LIGHT FIXTURES.
- B. PROVIDE HOLD-ON-TYPE BREAKERS FOR EGRESS/EMERGENCY LIGHTING CIRCUITS. WIRE ALL EGRESS/EMERGENCY FIXTURES AHEAD OF ANY LOCAL SWITCHING.
- C. LIGHT FIXTURES CONTROLLED BY SWITCH IN SAME ROOM UNLESS OTHERWISE NOTED.
- D. 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.
- 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 BOXES.

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 NEMA 3R.
- 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.
- F. 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 HEIGHTS.
- H. 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.
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STANDARD MOUNTING HEIGHTS



810 REPUBLIC ST

Progress Dates

Checked By: PRS

Drawn by: AJW

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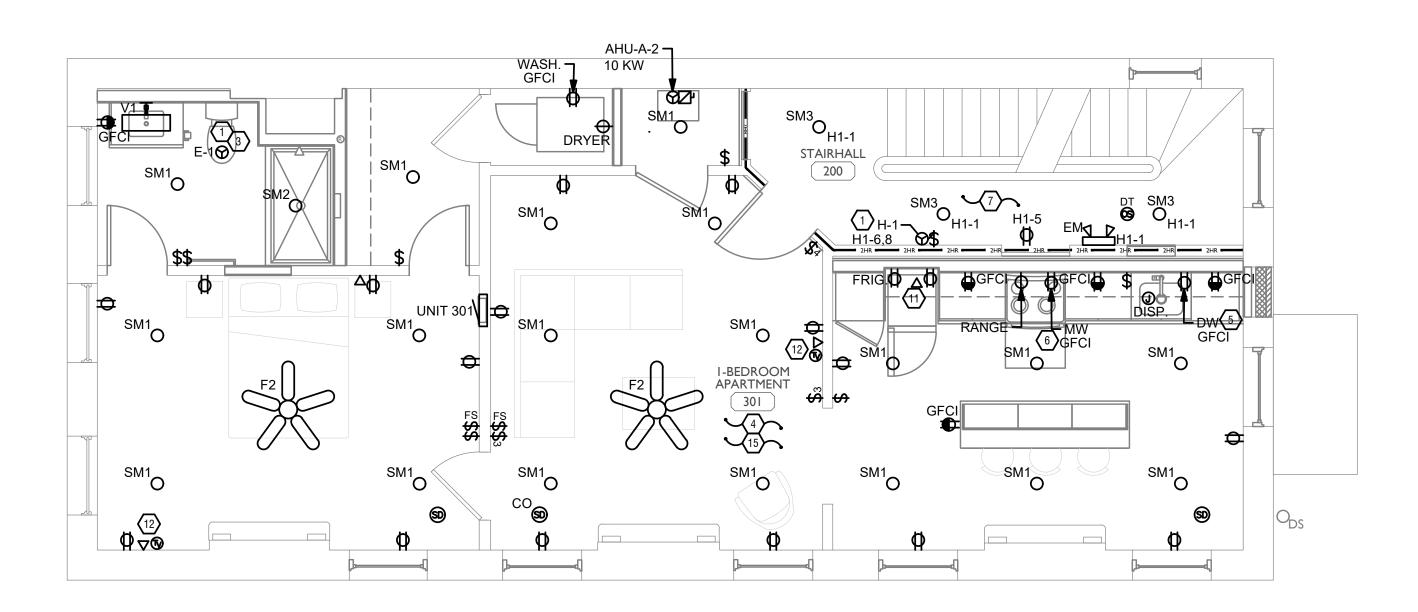
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Job No: 22042

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8/10/2022



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- 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

- D. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR DIMENSIONED LOCATIONS OF ALL LIGHT FIXTURES.
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★ KEYED SHEET NOTES

PRIOR TO ROUGH-IN.

- . 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. PROVIDE SWITCH AND CONNECTION FOR CONTINUOUSLY RUNNING 2-SPEED BATHROOM FAN. VERIFY REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. 4. PROVIDE HARD-WIRED SMOKE DETECTORS WITH BATTERY BACK-UP AS
- REQUIRED. ONE SMOKE DETECTOR IN EACH UNIT MUST BE A SMOKE/CO DETECTOR COMBO.
- 5. DISHWASHER MUST BE GFCI PROTECTED PER NEC 210.8(D) RECEPTACLE SHALL BE LOCATED IN AN ACCESSIBLE LOCATION.
- 6. MICROWAVE RECEPTACLE LOCATED IN CABINET ABOVE, COORDINATE LOCATION WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
- 7. CORRIDOR LIGHTS TO BE CONTROLLED BY OCCUPANCY SENSOR UNLESS OTHERWISE NOTED.
- 8. LOCATION OF BUILDING UTILITY DATA DEMARC. PROVIDE A 4'X4'X³/₄" PLYWOOD BACKBOARD FOR DATA/PHONE UTILITIES. COORDINATE ALL REQUIREMENTS WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN. PROVIDE DEDICATED QUAD RECEPTACLE AS SHOWN.
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- COORDINATE LOCATION WITH PLUMBING CONTRACTOR. PRIOR TO ROUGH-IN
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- 17. DUCTLESS INDOOR UNIT POWERED FROM OUTDOOR UNIT. CONFIRM LOCATION AND DISCONNECTING MEANS WITH INSTALLING CONTRACTOR.

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

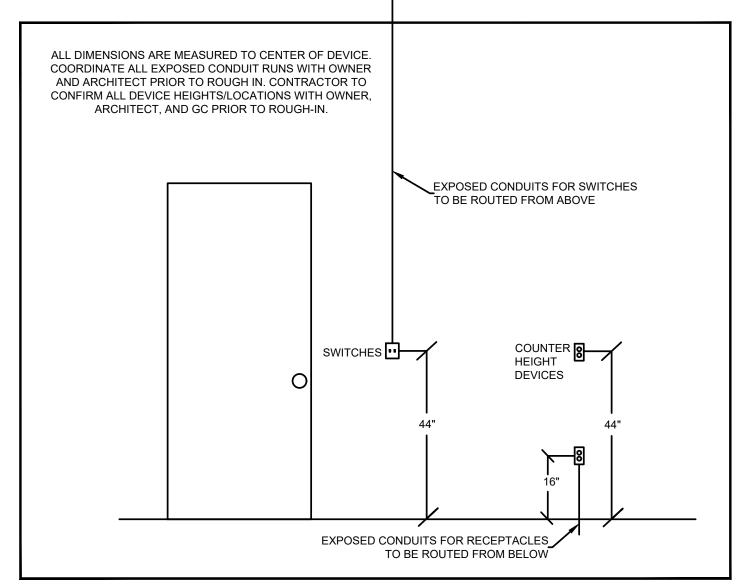
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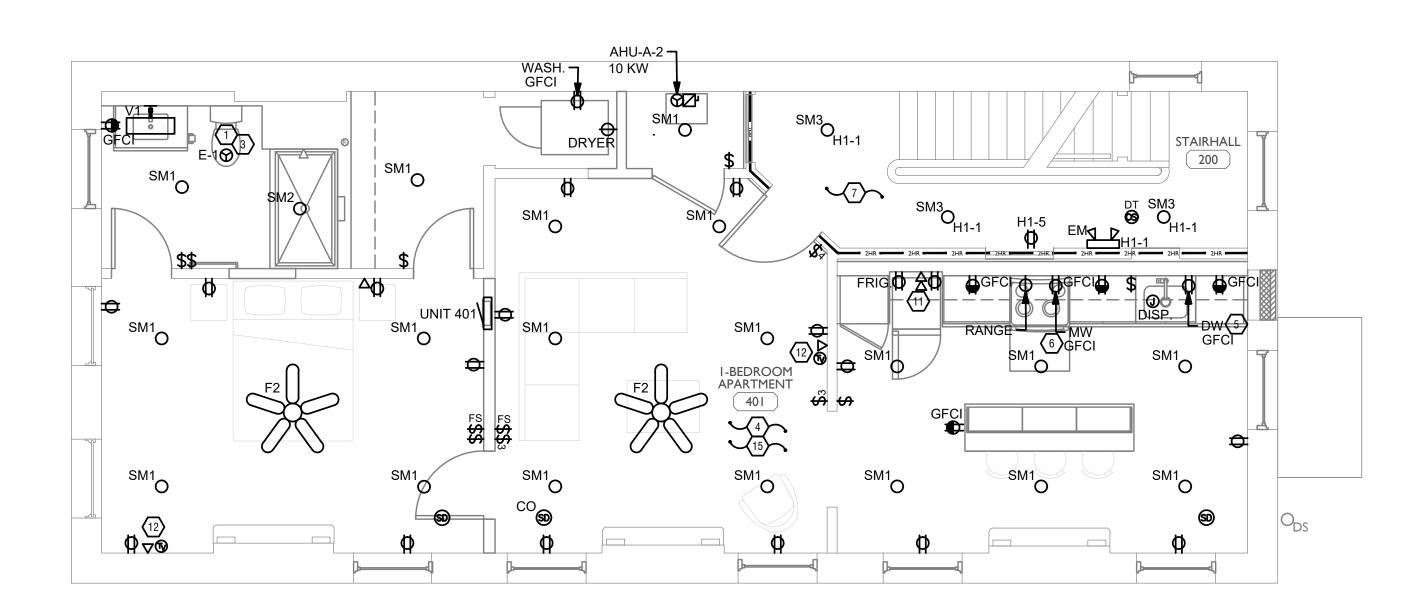
REPUBLIC

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Job No: 22042

8/10/2022

05/05/2023 BID P/E/FP



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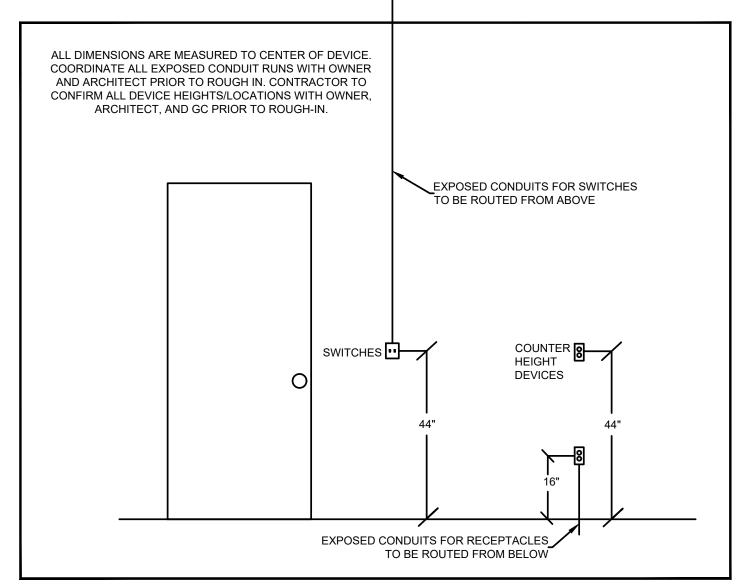
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STANDARD MOUNTING HEIGHTS



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Progress Dates 05/05/2023 BID P/E/FP

Revisions

Checked By: PRS

Drawn by: AJW



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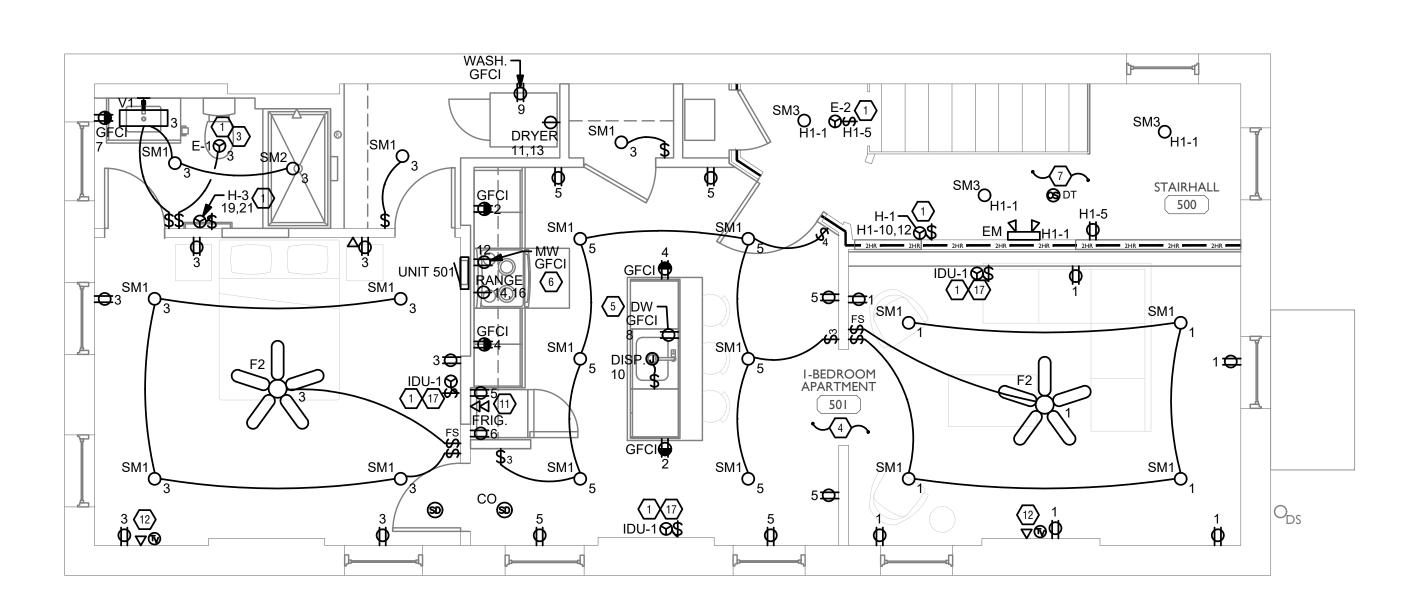
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Job No: 22042

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8/10/2022



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- 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 FIELD 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 OF THE WALL. PROVIDE TAMPER PROOF RECEPTACLES AS REQUIRED BY NEC ART. 406.12

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.

GENERAL NOTES-LIGHTING

- 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
- C. LIGHT FIXTURES CONTROLLED BY SWITCH IN SAME ROOM UNLESS OTHERWISE NOTED.
- D. 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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KEYED SHEET NOTES

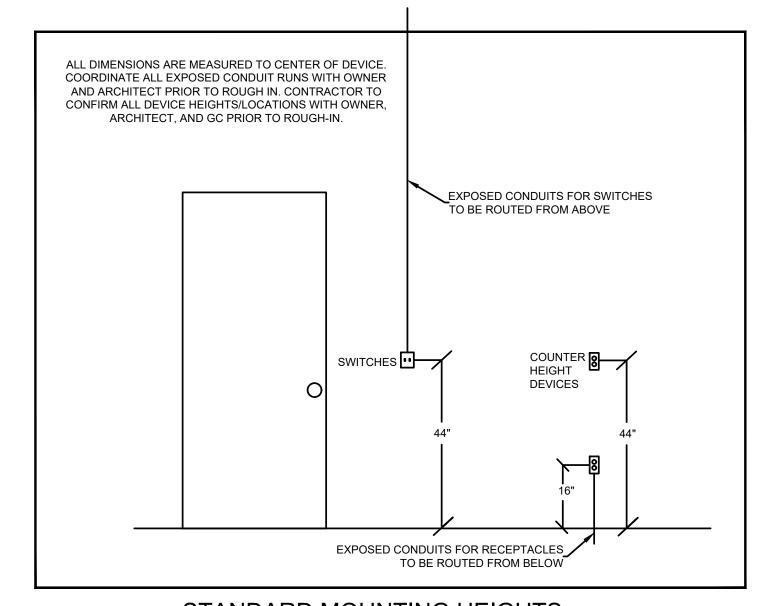
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- 17. DUCTLESS INDOOR UNIT POWERED FROM OUTDOOR UNIT. CONFIRM LOCATION AND DISCONNECTING MEANS WITH INSTALLING CONTRACTOR.

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- . ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT/CABLE ROUTING. COORDINATE ROUTING WITH ALL OTHER TRADES AND BUILDING
- 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.
- 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
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- G. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR ALL DEVICE MOUNTING HEIGHTS.
- H. 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.
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STANDARD MOUNTING HEIGHTS



Checked By: PRS Drawn by: AJW **ENGINEERED**

Progress Dates

05/05/2023 BID P/E/FP

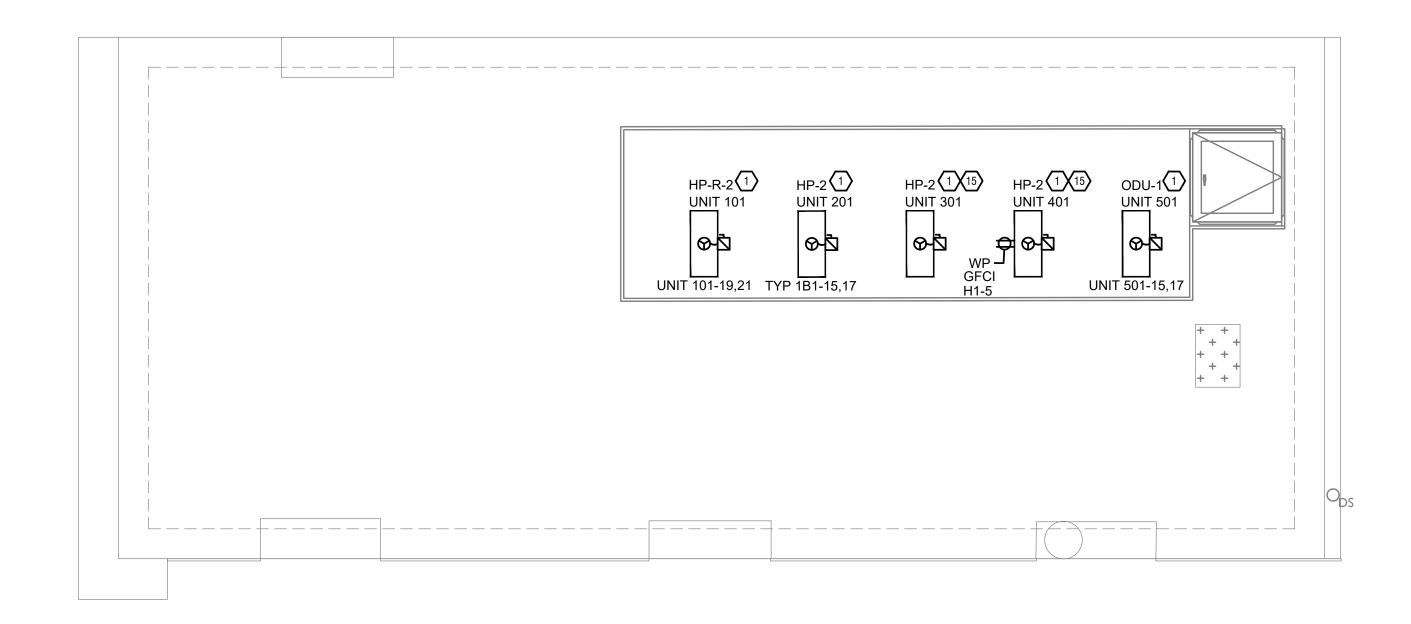
TEAMWORK • COLLABORATION SHARED SUCCESS 515 Monmouth Street, Suite 204 Newport, KY 41071 (859) 261-0585

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S) REPUBLIC 808

Job No: 22042



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
- 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.
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 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
- 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
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- 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.
- D. 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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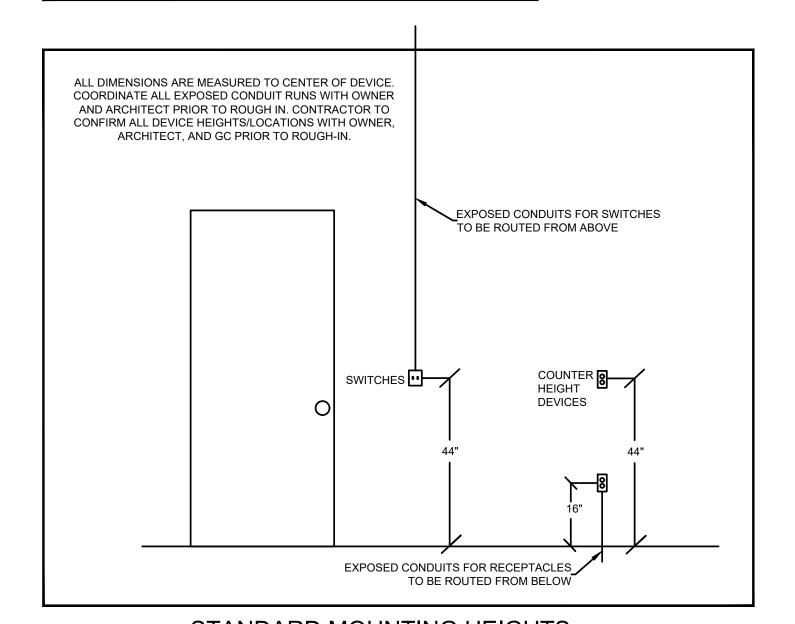
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- D. ALL PANELS AND DISCONNECTS LOCATED OUTDOORS SHALL BE LABELED NEMA 3R.
- E. ROOF MOUNTED AND OUTDOOR EQUIPMENT SHALL HAVE 120V RECEPTACLE MOUNTED WITHIN 25' OF EACH PIECE. RECEPTACLES SHALL BE IN WEATHER PROOF BOX AND HAVE GFCI PROTECTION.
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STANDARD MOUNTING HEIGHTS



PLAT rchitecture

Progress Dates 05/05/2023 BID P/E/FP

Revisio

Checked By: PRS

Drawn by: AJW



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Reno RENO 1808

Job No: 22042

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.

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

Phase II)\~Construction Documents\~Phase 1 (8 Buildings)\1808 REPUBLIC\9757 ED AS CONTRACT DOCUMENTS. THESE DRAWINGS HAVE BEEN PRE SPONSIBLE TO ENSURE THAT MEANS, METHODS, AND MATERIALS U

- 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

Shop Drawings

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 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 &

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.

applicable codes.

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.

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

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.

requirements and rough-in locations with owner prior to start of construction.

Electrical contractor shall provide plaster ring and pull string from each device

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Revisions

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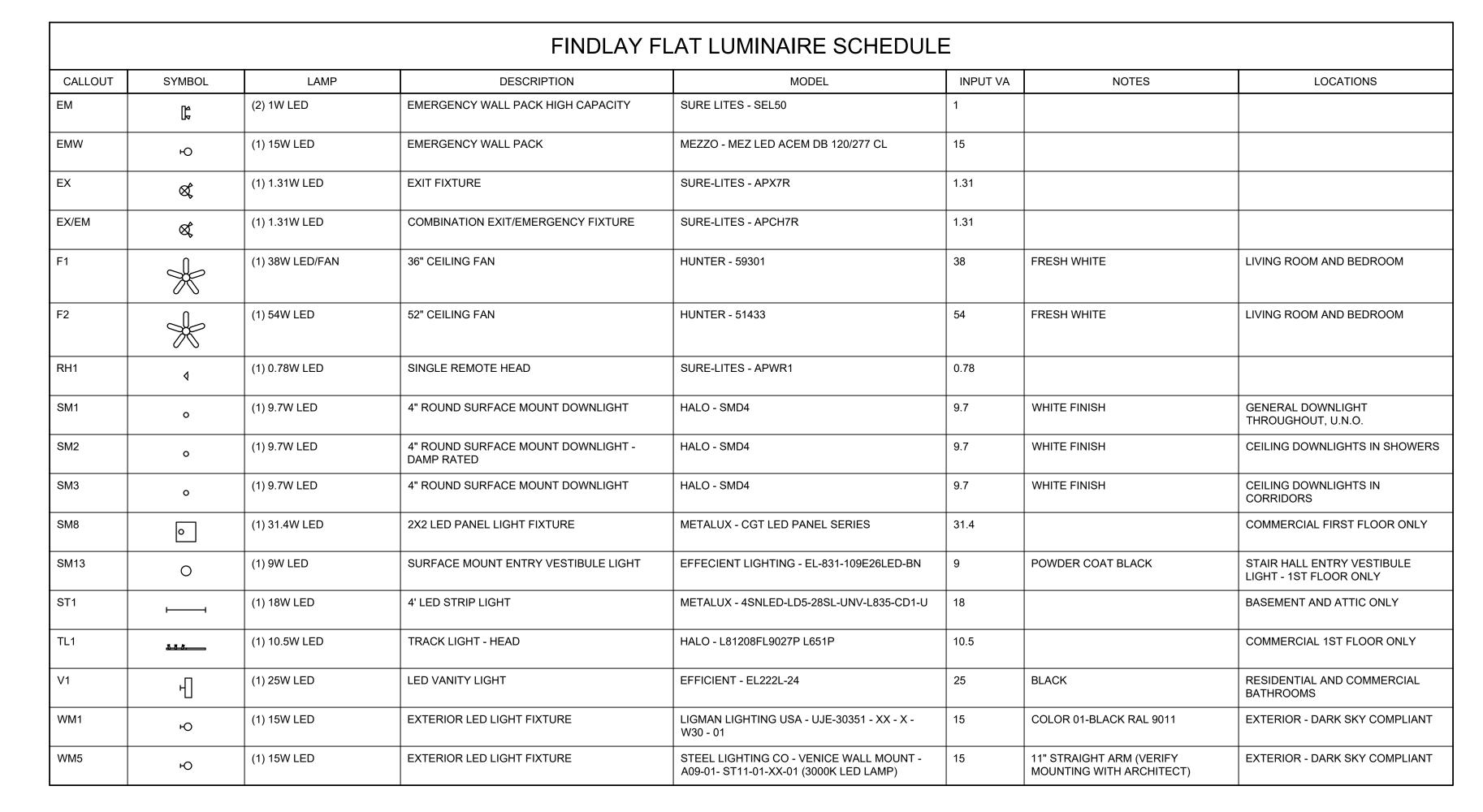
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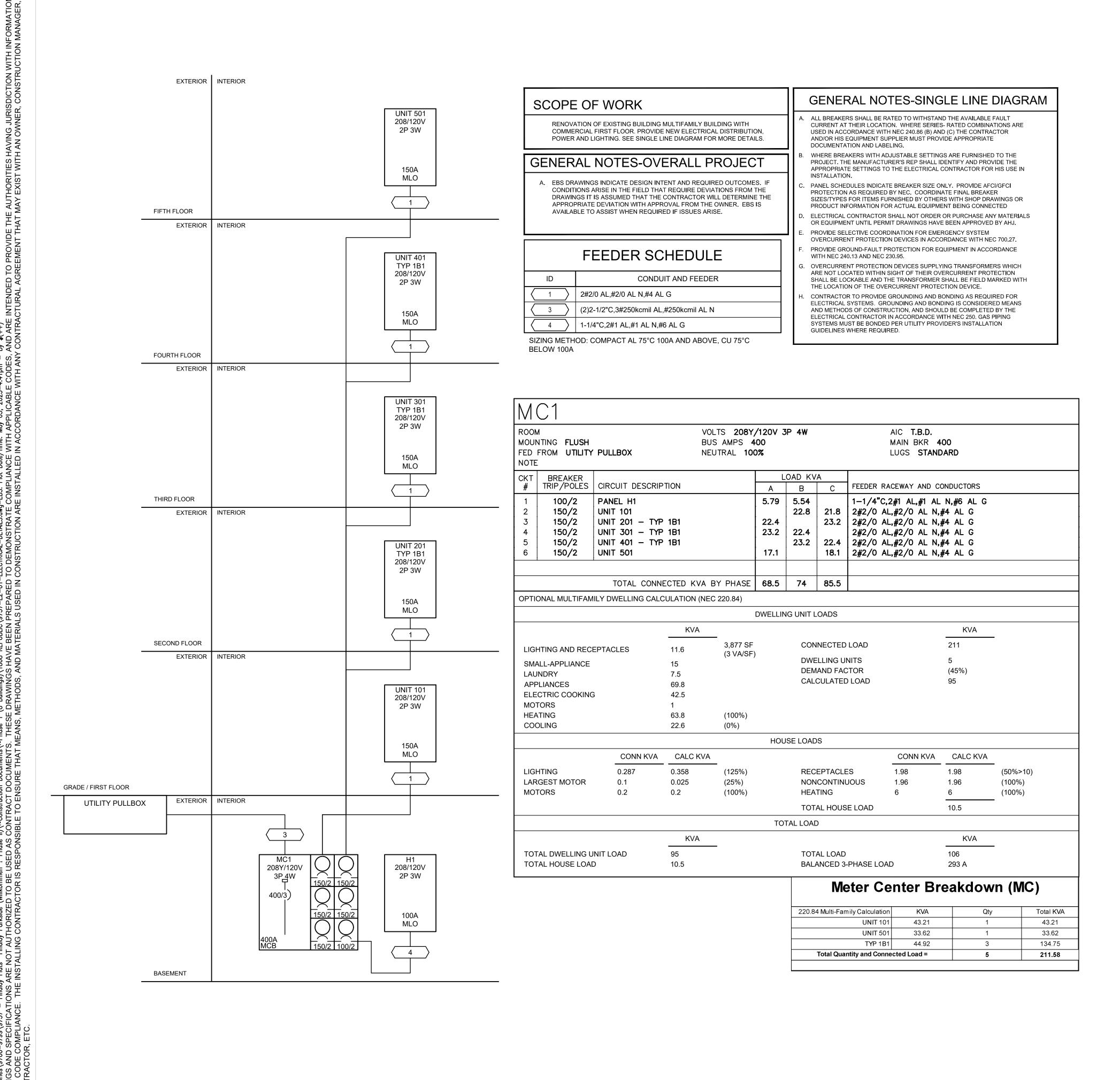
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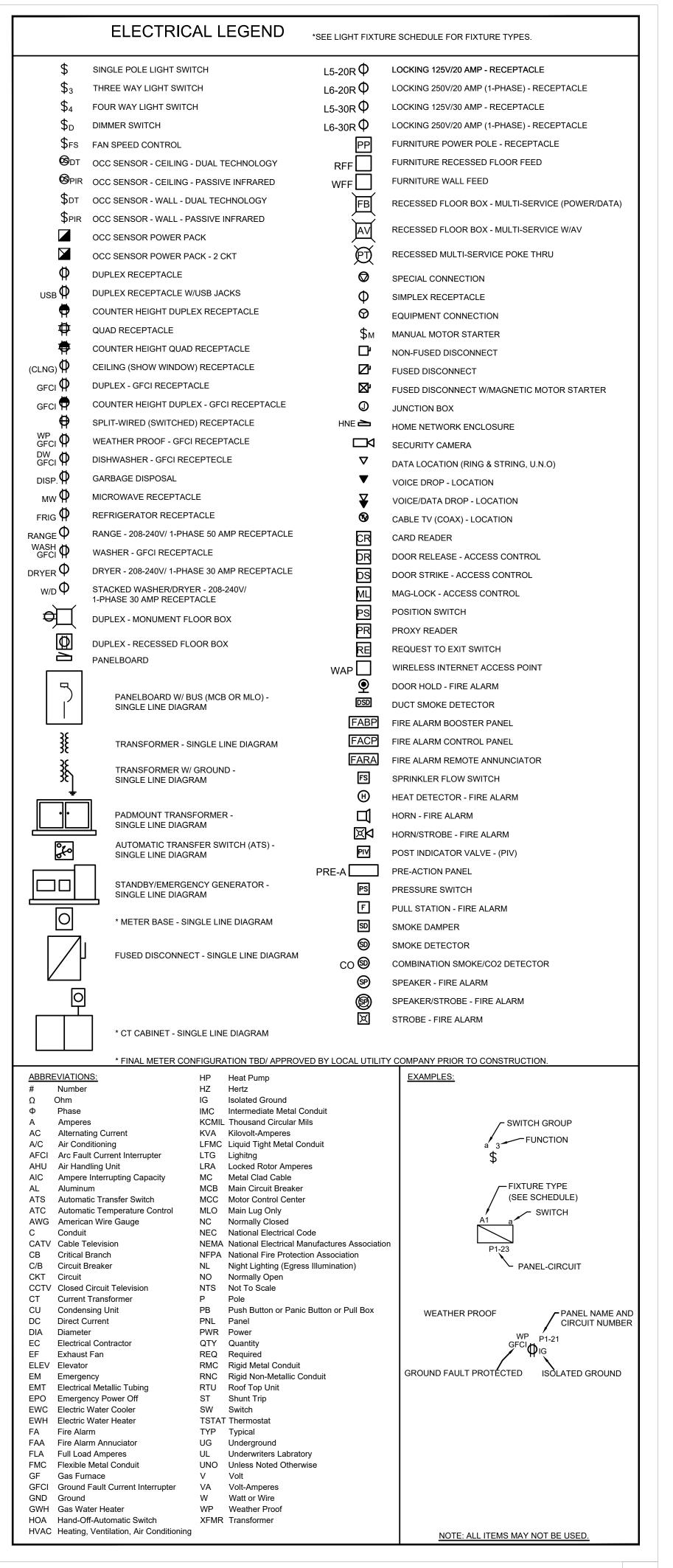
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ELECTRICAL DETAILS







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ELECTRICAL DETAILS

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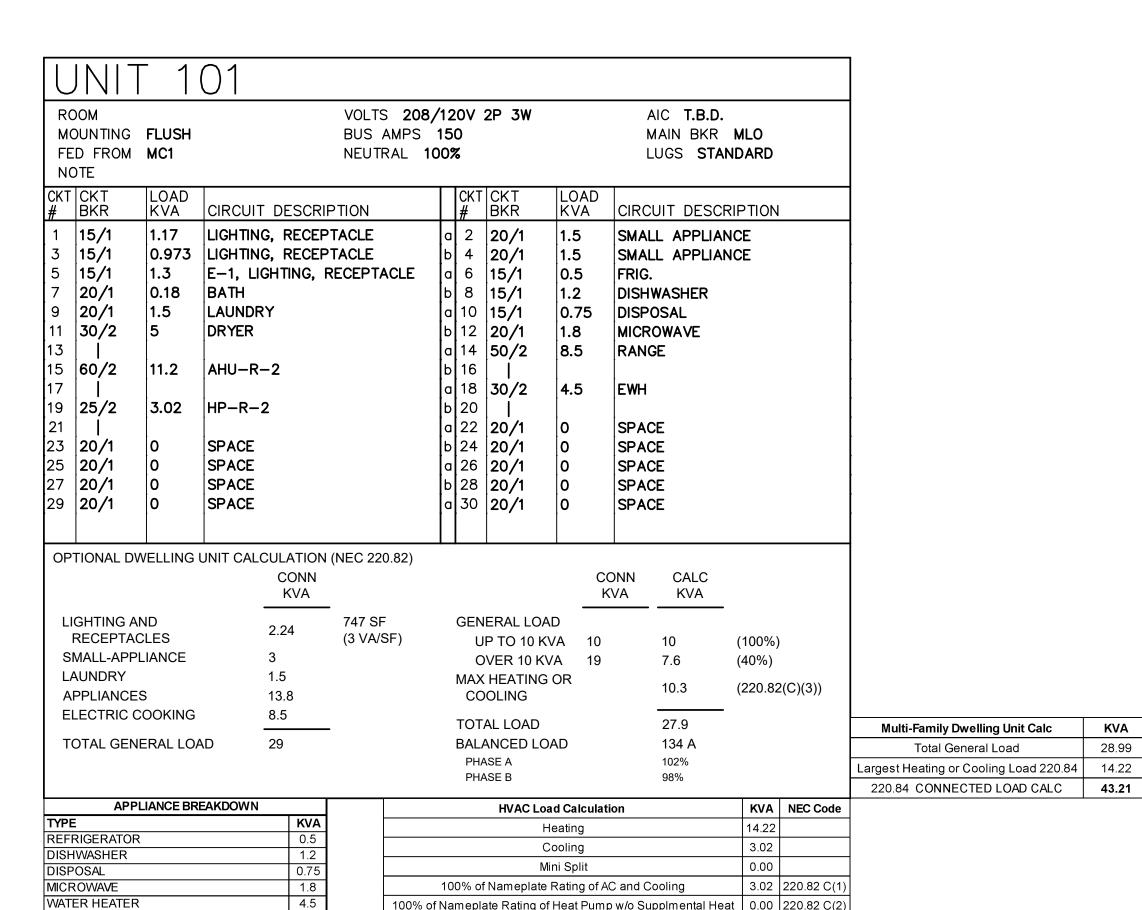
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M FE	OOM OUNTING D FROM OTE				VOLTS : BUS AMI NEUTRAL	PS 1	50	2P 3W			AIC T.B.D. MAIN BKR LUGS STA	MLO			
CKT #	CKT BKR	LOAD KVA	CIRCUIT	Γ DESCR	IPTION		CKT #	CKT BKR	LOAD KVA	CIR	CUIT DESC	RIPTION			
1 3 5 7 9 11 13 15 17 19 21 23 25 27	15/1 15/1 15/1 20/1 20/1 30/2 30/2 20/2 20/1 20/1 20/1 20/1	1.17 1.34 1.32 0.18 1.5 5 3.95 0.3	LIGHTIN E-1, LI	G, RECEI GHTING, G, RECEI	PTACLE RECEPTACL	E.	2 b 4 6 8 10 b 12 a 14 b 16 a 18 b 20 a 22 b 24 a 26 b 28	20/1 20/1 15/1 15/1 15/1 20/1 50/2 30/2 15/1 20/1	1.5 1.5 0.5 1.2 0.75 1.8 8.5 4.5 0.25 0	SMA SMA FRIG DISH DISH	LL APPLIA LL APPLIA E IWASHER POSAL ROWAVE GE CE CE	NCE			
LI S L A E M	GHTING A RECEPTA MALL-AP AUNDRY PPLIANC LECTRIC IOTORS	AND ACLES PLIANCE		CULATION CONN KVA 2.37 3 1.5 13.8 8.5 0.25	N (NEC 220.82 		MAX CC TOT BAL PH	NERAL LOAD JP TO 10 K OVER 10 K OVER 10 K OOLING TAL LOAD ANCED LOASE A ASE B	AD KVA 10 IVA 19.	ONN (VA	CALC KVA 10 7.75 4.15 21.9 105 A 102% 97.6%	(100%) (40%) (220.82		Multi-Family Dwelling Unit Calc Total General Load Largest Heating or Cooling Load 220.84 220.84 CONNECTED LOAD CALC	KVA 29.37 4.25 33.62
	AP	PLIANCE BR	EAKDOWN					HVAC L	oad Calcula	ation		KVA	NEC Code	220.07 CONNECTED LOAD CALC	55.02

MOTORS	0.25	BALANCED LOAD 105 A		
TOTAL GENERAL LOAD	29.4	PHASE B 97.6%		
APPLIANCE BREAKDOW	٧N	HVAC Load Calculation	KVA	NEC Code
YPE	KVA	Heating	4.25	
EFRIGERATOR	0.5	Cooling	3.95	
ISHWASHER	1.2	Mini Split	0.00	
ISPOSAL	0.75			
IICROWAVE	1.8	100% of Nameplate Rating of AC and Cooling	3.95	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
RYER	5	Heat Pump plus 65% of Supplemental Heat	4.15	220.82 C(3
OW WATER RECIRC PUMP	0.25	Largest Heating or Cooling Load	4.25	220.84 C(
OTAL	14.00	<u> </u>		(.

T	YP	1E	31													TYP 1B1 UNIT 201 UNIT 301	
M(FE	DOM DUNTING ED FROM DTE	FLUSH			VOLTS 20 BUS AMPS NEUTRAL	15	0	2P 3W				AIC T.B.D Main BKR Lugs St A	MLO	1		UNIT 401	
CKT #	CKT BKR	LOAD KVA	CIRCUIT	DESCRI	PTION		CKT #	CKT BKR	LOA	ND N	CIRC	CUIT DESC	RIPTION	٧			
1 3	15/1 15/1	1.34	LIGHTIN	G, RECEP		a b	1	20/1 20/1	1.5 1.5		SMA	LL APPLIA LL APPLIA					
5 7 9	15/1 20/1 20/1	0.778 0.18 1.5	BATH LAUNDR	G, RECEP	TACLE	a b	8	15/1 15/1 15/1	0.5 1.2 0.75		ł	WASHER OSAL					
11 13	30/2	5	DRYER	. 1		Ь	12	20/1	1.8 8.5		ł	ROWAVE					
15 17	35/2	5.2	HP-2	9		a		30/2	4.5		EWH						
19 21 23	60/2 20/1	9.9	AHU-A-SPACE	-2		a		15/1 20/1	0.25	1	HWR SPA						
25 27 29	20/1 20/1 20/1	0 0 0	SPACE SPACE SPACE			a b	26 28		0 0		SPA SPA SPA	CE CE					
OP	TIONAL DV	VELLING	UNIT CAL	CULATION CONN KVA	(NEC 220.82)						DNN /A	CALC KVA					
LIGHTING AND RECEPTACLES SMALL-APPLIANCE 3 LAUNDRY 1.5			780 SF (3 VA/SF)	(A/SF) UP TO 10 KVA				10 10 19.3 7.74 11.6			(100%) (40%) (220.82(C)(3))						
APPLIANCES 13.8 ELECTRIC COOKING 8.5 MOTORS 0.25					тот	AL LOAD				29.4	-			Multi-Family Dwelling Unit Calc	KVA		
	OTAL GEN	ERAL LOA	AD	29.3			PH	ANCED LO ASE A ASE B	DAD			141 A 101% 98.6%				Total General Load Largest Heating or Cooling Load 220.84 220.84 CONNECTED LOAD CALC	29.82 15.10
	APPI	LIANCE BR	EAKDOWN					HVACLO	ıd Calcu	ılatio	n		KVA	Τ	NEC Code	220.04 CONNECTED LOAD CALC	44.92
TYPE KVA				HVAC Load Calculation KVA Heating 15.10							+	11LO 000E	1				
	REFRIGERATOR 0.5					Cooling 5.20								1			
DISHWASHER 1.2 DISPOSAL 0.75					Cooling 5.20 Mini Split 0.00								1				
	ROWAVE			1.8		100	% ∩f I	Nameplate		of AC	and C	oolina		+	220.82 C(1)	1	
	EDUEATED					100	70 OI I	- tam epiate	taining C	, AO	and C	oomig	0.20		.20.02 0(1)	_	

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

10.30 220.82 C(3) 14.22 220.84 C(5)

11.64 220.82 C(3)

15.10 220.84 C(5)

Heat Pump plus 65% of Supplemental Heat

Largest Heating or Cooling Load

Total General Load

Z:\~Project Directories\9700-9799\9757 - Findlay Flats Findlay Parkside (Willkommen ? Phase II)\~Construction Documents\~Phase 1 (8 Buildings)\1808 REPUBLC\9757-E2-02-ELECTRICAL-DETAILS.dwg-EBS. Plot Date/Time: May 05, 2023-4:45pm - By \$(++)
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DRYER

WATER HEATER

HOW WATER RECIRC PUMP

DRYER

M(FE		FLUSH MC1			VOLTS 20 BUS AMPS NEUTRAL	s 1 0	00	2P 3W			N	AIC T.B. MAIN BK LUGS S		
CKT #	CKT BKR	LOAD KVA	CIRCUI	T DESCRI	PTION		CKT #	CKT BKR	LO KV	AD 'A	CIRC	:UIT DES	SCRIPTION	
1 3 5	20/1 20/1 20/1	0.287 0.72 1	LIGHTIN RECEP E-2, R	IG FACLE RECEPTACI	l C	2 4 1 6	20/2 20/2	2		H-1 H-1				
7 9 11	20/1	0.36	MOŃITO	PRINKLER ORING SYS	(8 10 12	20/2	2		H-1	I			
13 15 17 19 21	3 20/1 0 SPACE 5 20/1 0 SPACE 7 20/1 0 SPACE 9 20/1 0 SPACE				SPACE SPACE SPACE					96	DH-1 (DE-1) DEHUMIDIFIER SPACE SPACE SPACE			
23	20/1 20/1	0	SPACE				22	20/1 20/1	0		SPA	CE		
			CONN KVA	CALC KVA							ONN VA	CALC KVA		
Al LA	GHTING PPLIANCE ARGEST MOTOR		0.287 1 0.1	0.358 1 0.025	(125%) (100%) (25%)		REC NON	ORS EPTACLE ICONTINU TING		0.1 1.98 1.96 6		0.1 1.98 1.96 6	(100%) (50%>10) (100%) (100%)	
							BAL.	AL LOAD ANCED LO ASE A ASE B)AD			11.4 54.9 A 102% 98%		

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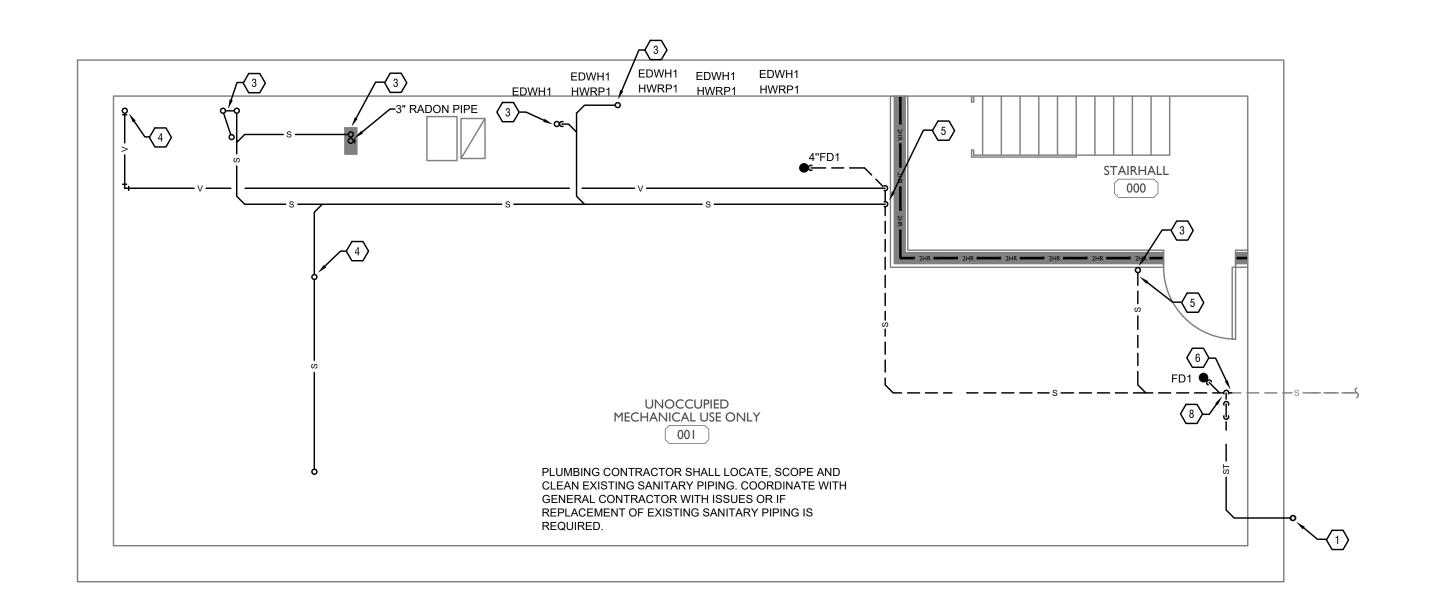
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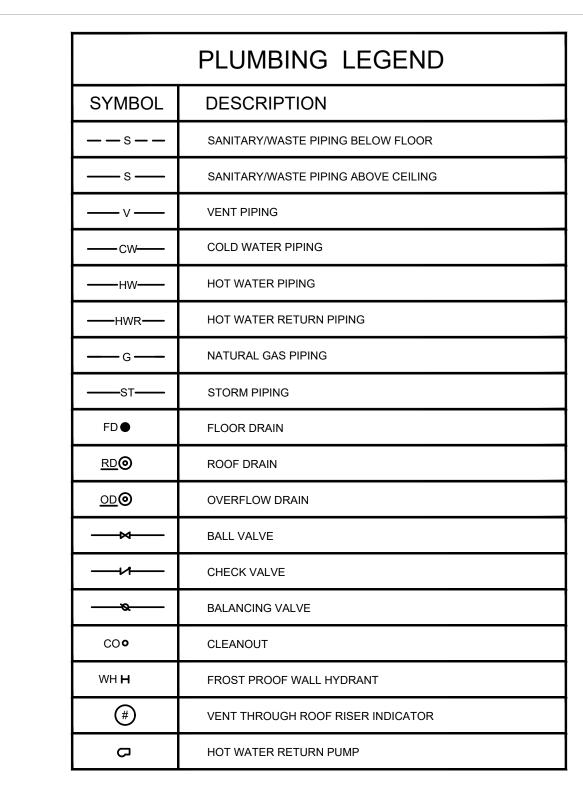
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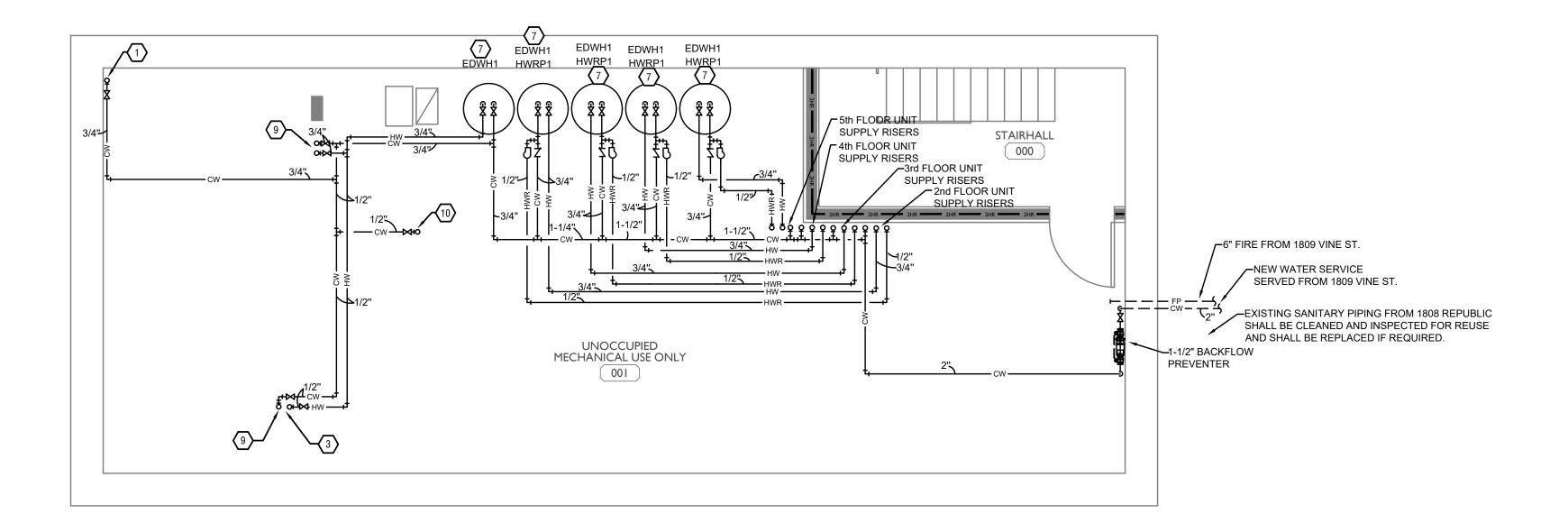
Job No: 22042





PLUMBING BASEMENT KEYED NOTES

- 1. PROVIDE NEW DOWNSPOUT CONNECTION.
- 2. 3/4" COLD WATER PIPING UP TO SERVE WALL HYDRANT ON FLOOR ABOVE.
- 3. SANITARY PIPING UP TO FLOOR ABOVE. REFER TO ISOMETRICS FOR PIPE SIZES.
- 4. VENT PIPING UP TO FLOOR ABOVE. REFER TO ISOMETRICS FOR PIPE SIZES.
- 5. SANITARY PIPING DOWN UNDER SLAB. REFER TO ISOMETRICS FOR PIPE SIZES.
- 6. CONNECT NEW SANITARY PIPING TO EXISTING SANITARY PIPING.
- 7. ELECTRIC TANK TYPE WATER HEATER WITH HEAT TRAPS ON INLET AND OUTLET. 3/4" COLD WATER IN, 3/4" HOT WATER OUT. PROVIDE DRAIN PAN AND PIPE DRAIN AND PRESSURE RELIEF VALVE INDEPENDENTLY AND INDIRECTLY TO FLOOR DRAIN. REFER TO DETAIL SHEETS FOR SPECIFICATIONS.
- 8. CONNECT NEW STORM LEADERS WITH RUNNING TRAP TO EXISTING SANITARY
- 9. HOT AND COLD WATER PIPING UP TO SERVE APARTMENT ON FLOOR ABOVE.
- 10. 1/2" COLD WATER PIPING UP TO FLOOR ABOVE.





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Revisions

Checked By: sss

Drawn by: DAG

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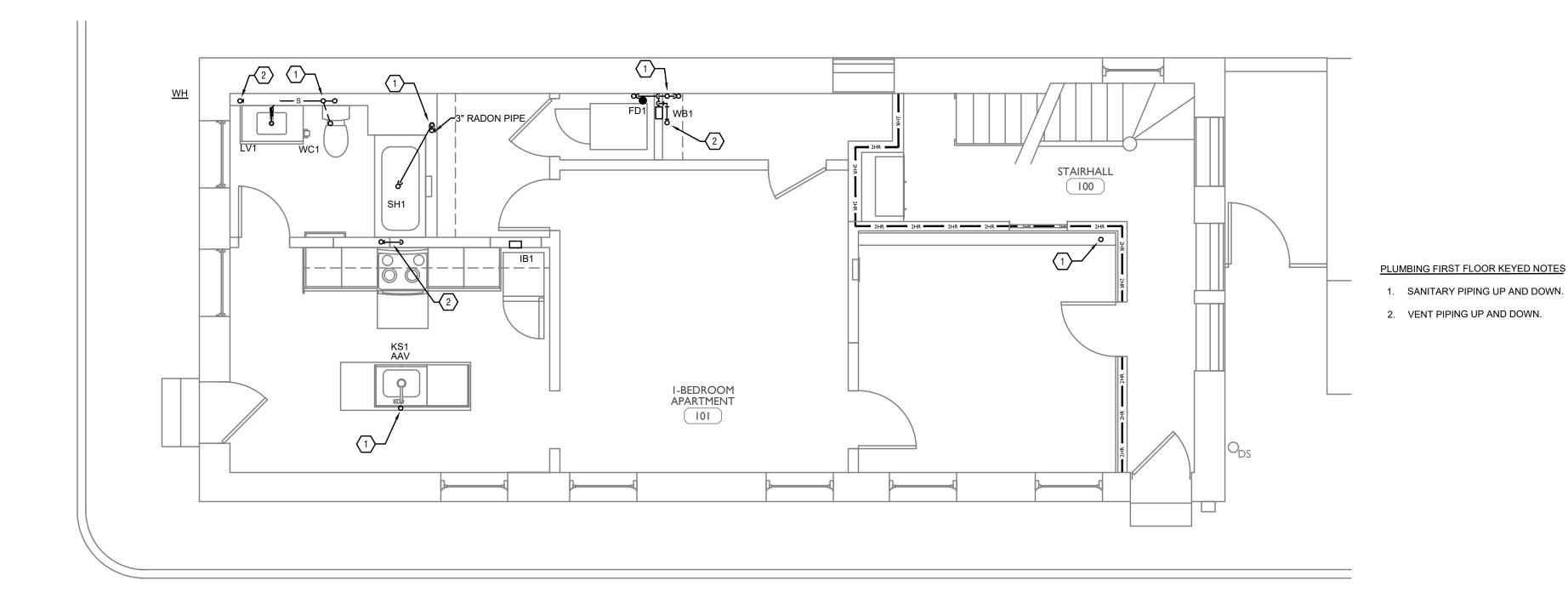
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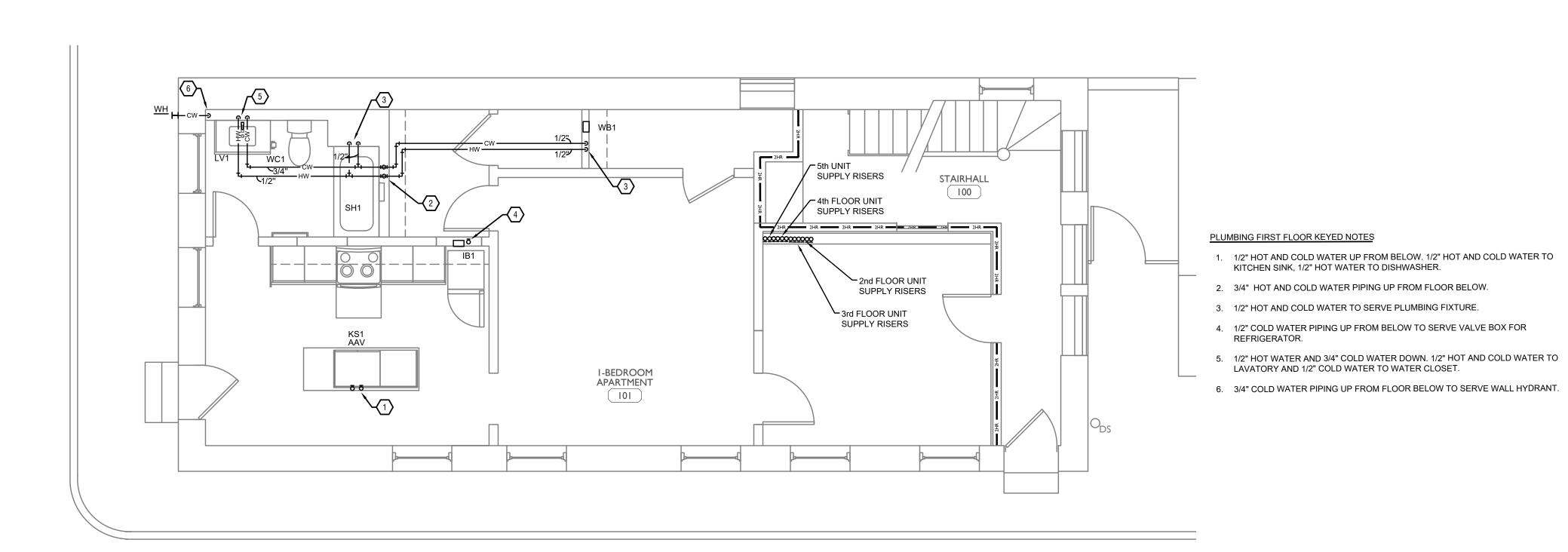
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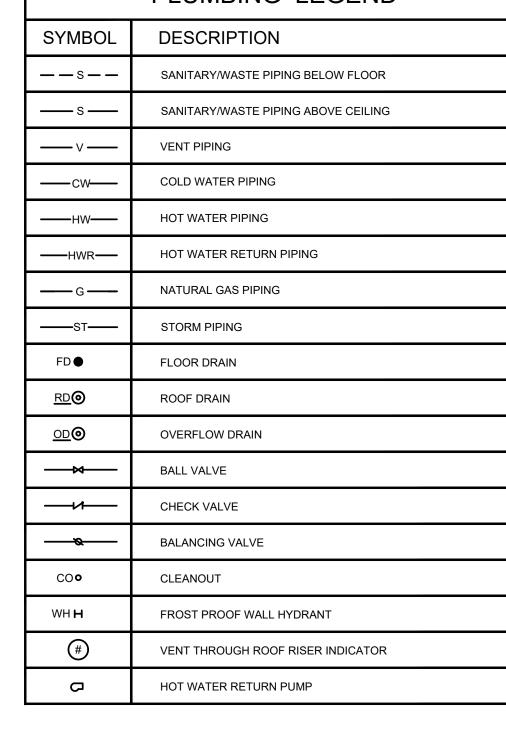
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Job No: 22042





	PLUMBING LEGEND
SYMBOL	DESCRIPTION
 s 	SANITARY/WASTE PIPING BELOW FLOOR
— s —	SANITARY/WASTE PIPING ABOVE CEILING
—	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
—— <i>®</i> ——	BALANCING VALVE
CO •	CLEANOUT
WH H	FROST PROOF WALL HYDRANT
#	VENT THROUGH ROOF RISER INDICATOR
O	HOT WATER RETURN PUMP



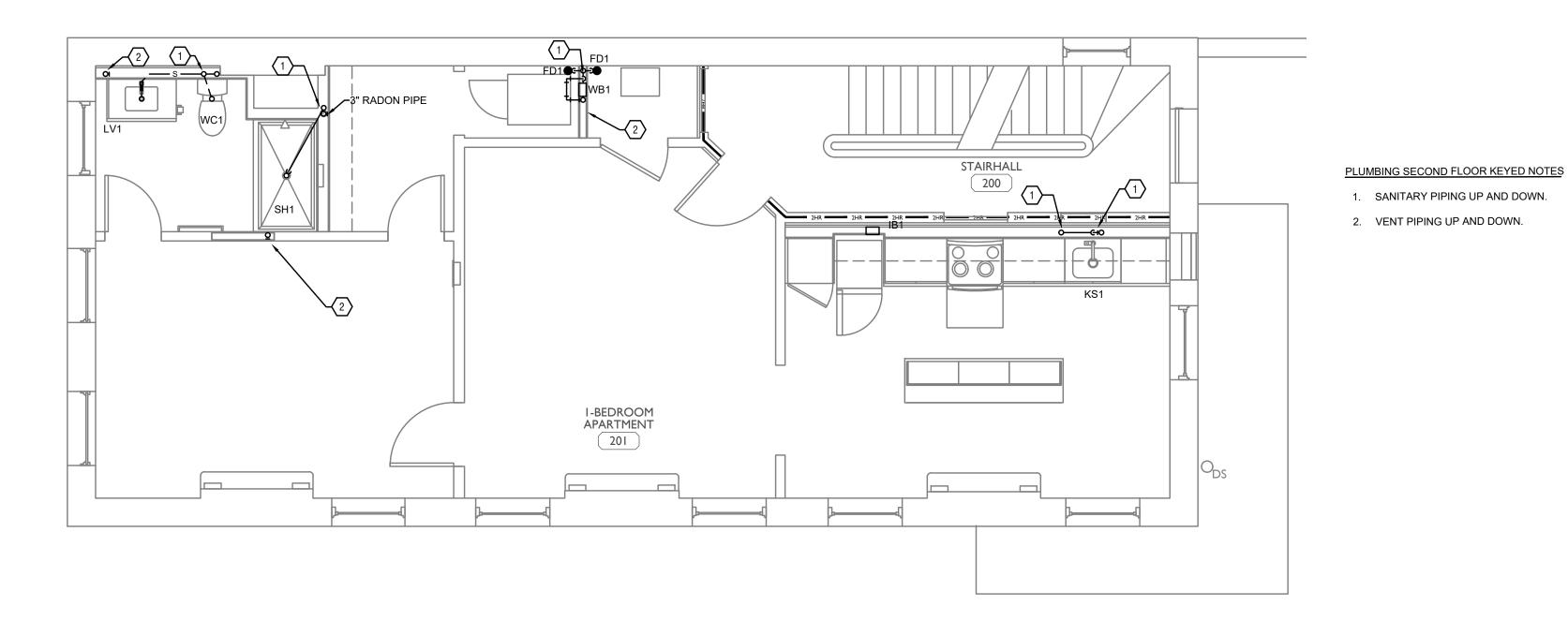
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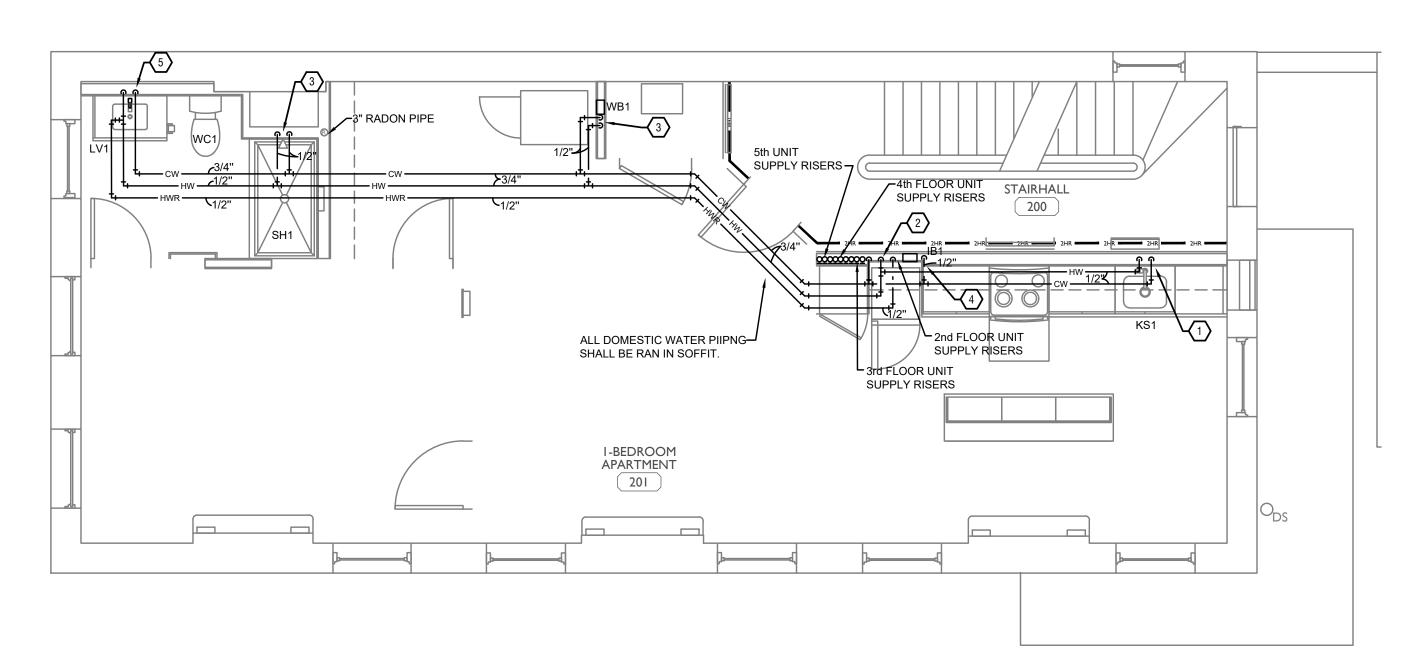
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	1 LOMBING LEGEND
SYMBOL	DESCRIPTION
——s——	SANITARY/WASTE PIPING BELOW FLOOR
— s—	SANITARY/WASTE PIPING ABOVE CEILING
v	VENT PIPING
CW	COLD WATER PIPING
——нw——	HOT WATER PIPING
HWR	HOT WATER RETURN PIPING
—— G ——	NATURAL GAS PIPING
st	STORM PIPING
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
Ω	HOT WATER RETURN PUMP



PLUMBING SECOND FLOOR KEYED NOTES

- 1/2" HOT AND COLD WATER DOWN IN WALL. 1/2" HOT AND COLD WATER TO KITCHEN SINK, 1/2" HOT WATER TO DISHWASHER.
- 2. 3/4" HOT WATER, 3/4" COLD WATER AND 1/2" HOT WATER RETURN PIPING UP FROM FLOOR BELOW.
- 3. 1/2" HOT AND COLD WATER TO SERVE PLUMBING FIXTURE.
- 4. 1/2" COLD WATER PIPING DOWN TO SERVE VALVE BOX FOR REFRIGERATOR.
- 1/2" HOT WATER AND 3/4" COLD WATER DOWN. 1/2" HOT AND COLD WATER TO LAVATORY AND 1/2" COLD WATER TO WATER CLOSET.



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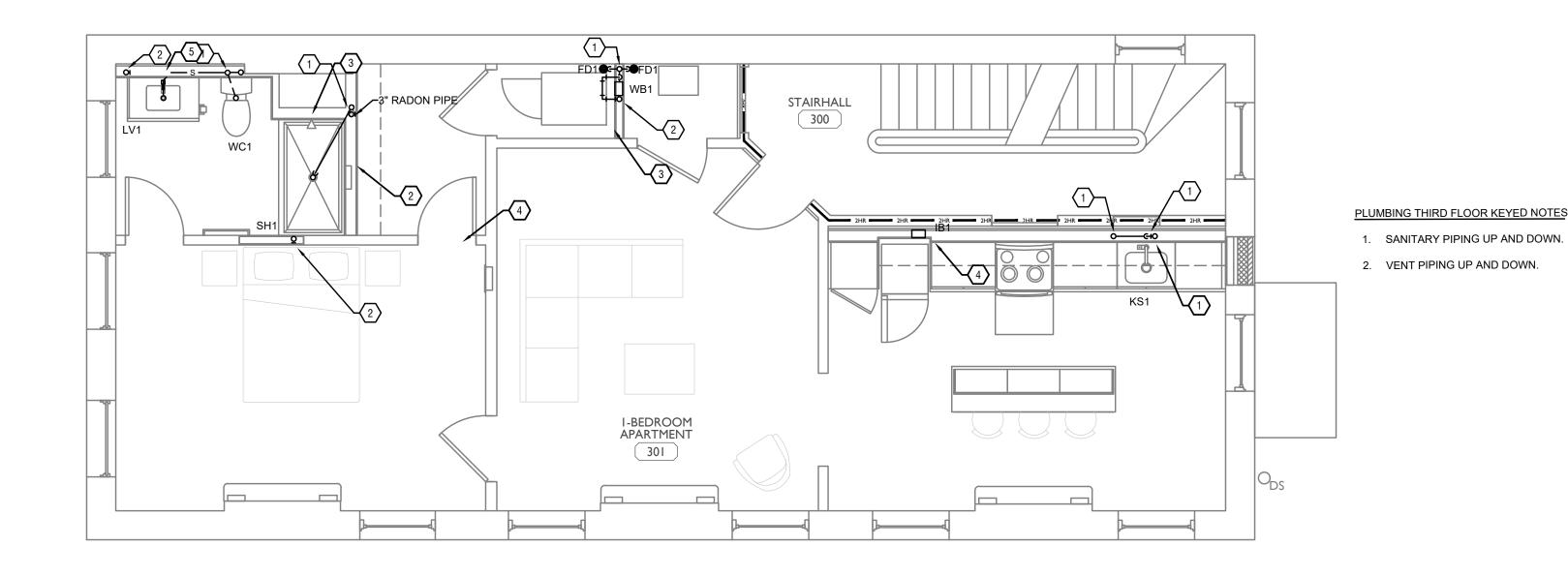
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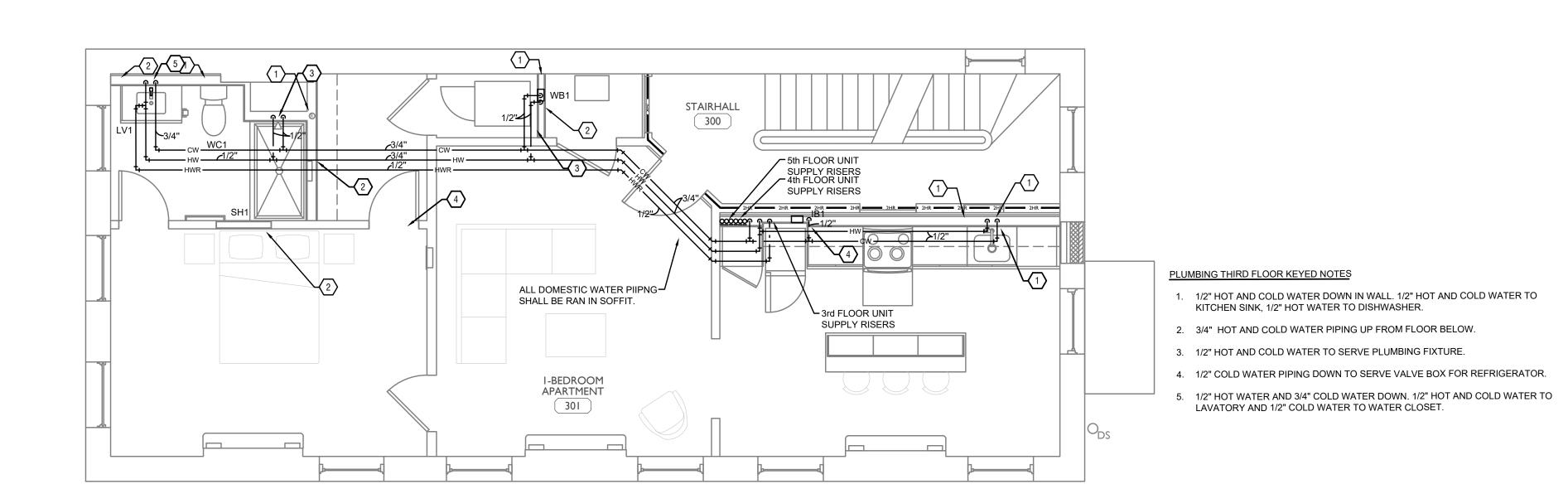
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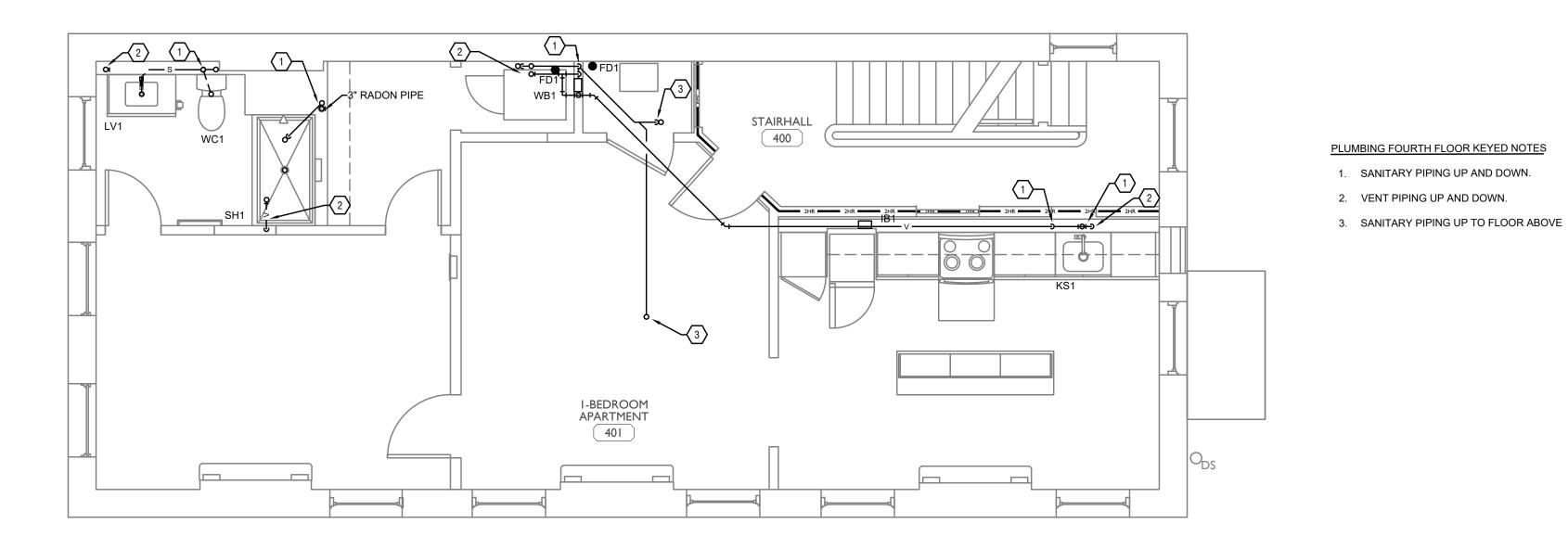


	PLUMBING LEGEND
SYMBOL	DESCRIPTION
 s 	SANITARY/WASTE PIPING BELOW FLOOR
—-s—	SANITARY/WASTE PIPING ABOVE CEILING
v	VENT PIPING
——cw—	COLD WATER PIPING
——HW——	HOT WATER PIPING
——HWR——	HOT WATER RETURN PIPING
—— G——	NATURAL GAS PIPING
——st——	STORM PIPING
FD●	FLOOR DRAIN
<u>RD</u> ⊚	ROOF DRAIN
<u>od</u>	OVERFLOW DRAIN
—₩—	BALL VALVE
─ ₩	CHECK VALVE
	BALANCING VALVE
CO o	CLEANOUT
WH H	FROST PROOF WALL HYDRANT
#	VENT THROUGH ROOF RISER INDICATOR
Ω	HOT WATER RETURN PUMP

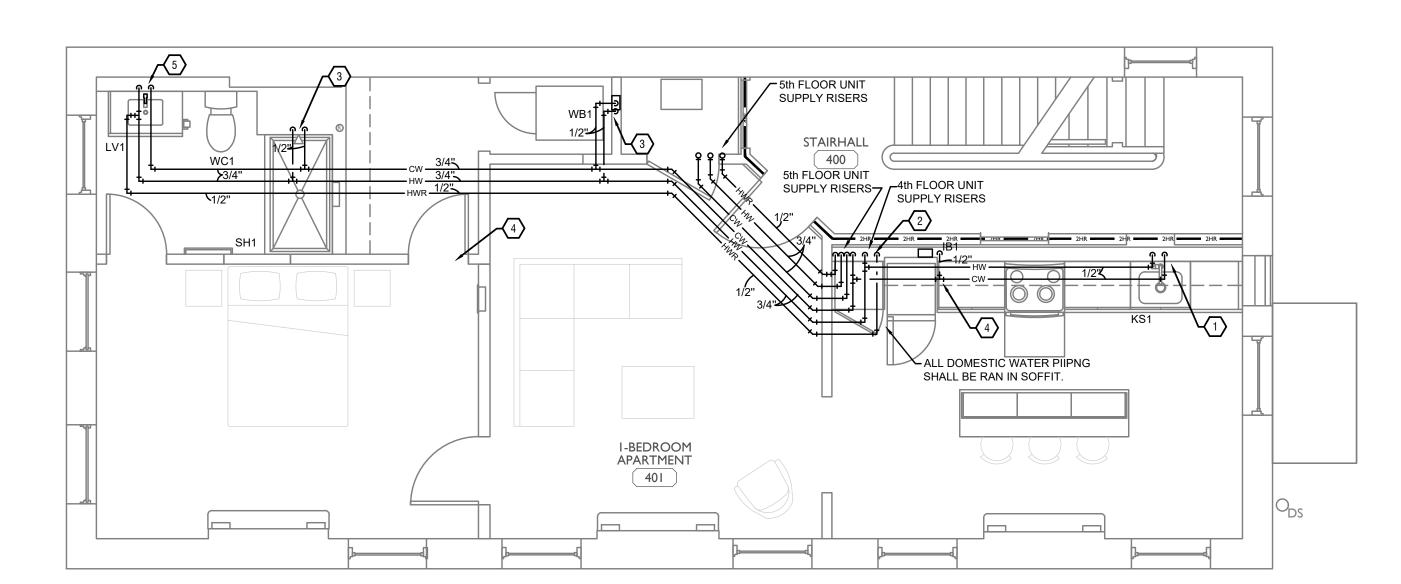


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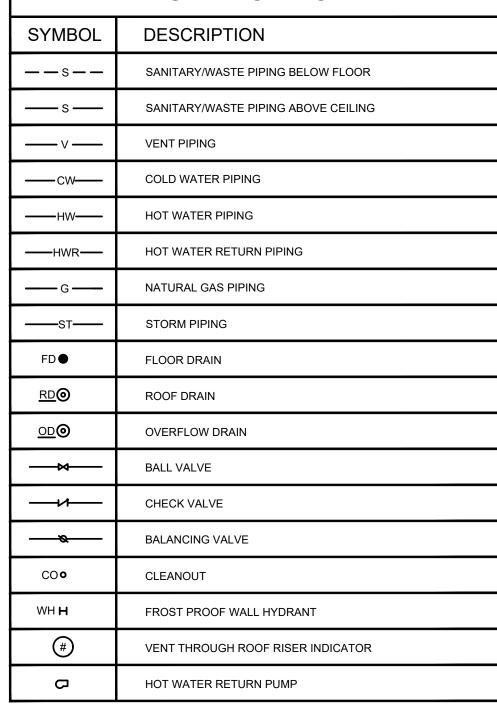
	PLUMBING LEGEND
SYMBOL	DESCRIPTION
s	SANITARY/WASTE PIPING BELOW FLOOR
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v	VENT PIPING
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HWR	HOT WATER RETURN PIPING
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——st——	STORM PIPING
FD●	FLOOR DRAIN
<u>RD</u> ©	ROOF DRAIN
<u>od</u> ©	OVERFLOW DRAIN
─ ₩─	BALL VALVE
v-	CHECK VALVE
	BALANCING VALVE
CO •	CLEANOUT
WH H	FROST PROOF WALL HYDRANT
#	VENT THROUGH ROOF RISER INDICATOR
O	HOT WATER RETURN PUMP



PLUMBING FOURTH FLOOR KEYED NOTES

- 1. 1/2" HOT AND COLD WATER DOWN IN WALL. 1/2" HOT AND COLD WATER TO KITCHEN SINK, 1/2" HOT WATER TO DISHWASHER.
- 2. 3/4" HOT AND COLD WATER PIPING UP FROM FLOOR BELOW.
- 3. 1/2" HOT AND COLD WATER TO SERVE PLUMBING FIXTURE.
- 4. 1/2" COLD WATER PIPING DOWN TO SERVE VALVE BOX FOR REFRIGERATOR.
- 5. 1/2" HOT WATER AND 3/4" COLD WATER DOWN. 1/2" HOT AND COLD WATER TO LAVATORY AND 1/2" COLD WATER TO WATER CLOSET.

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



PLUMBING PLAN - FOURTH FLOOR

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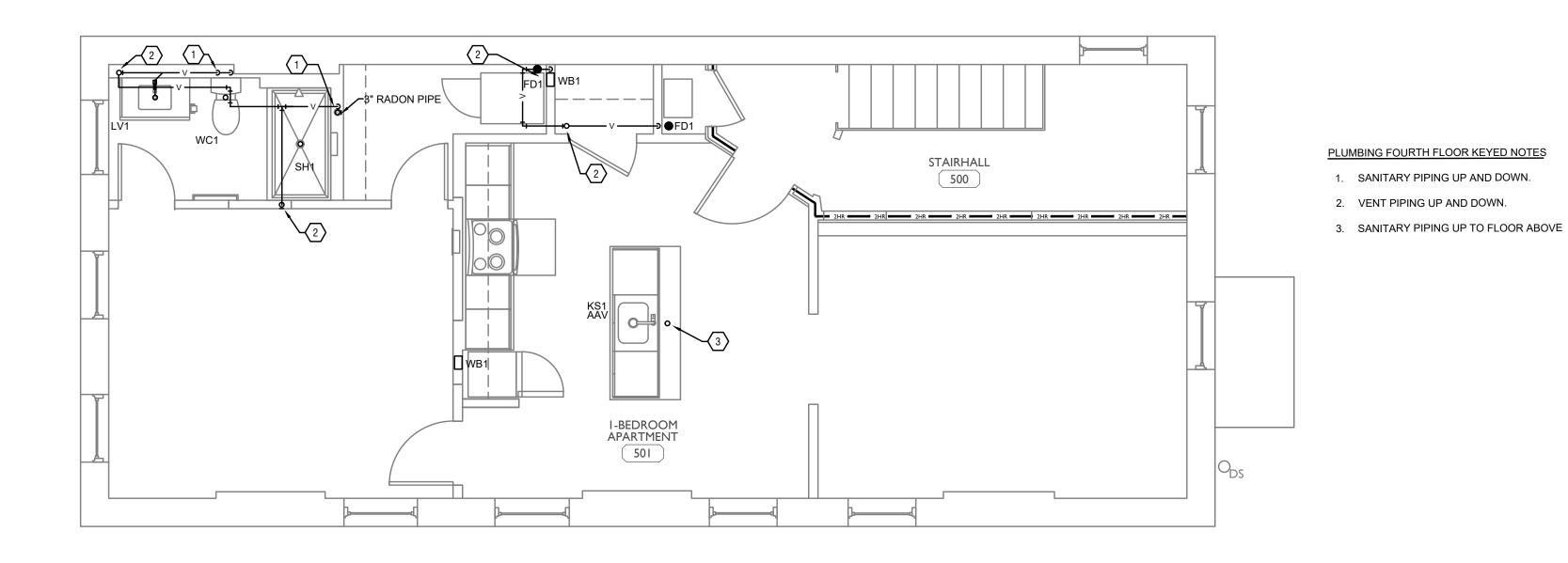
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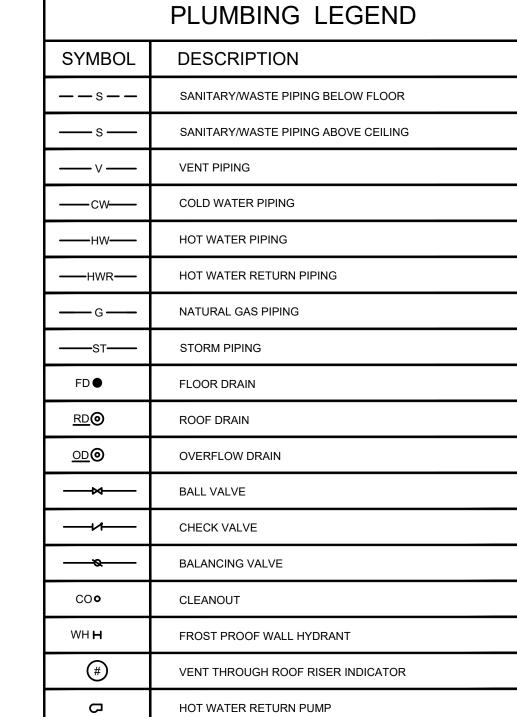
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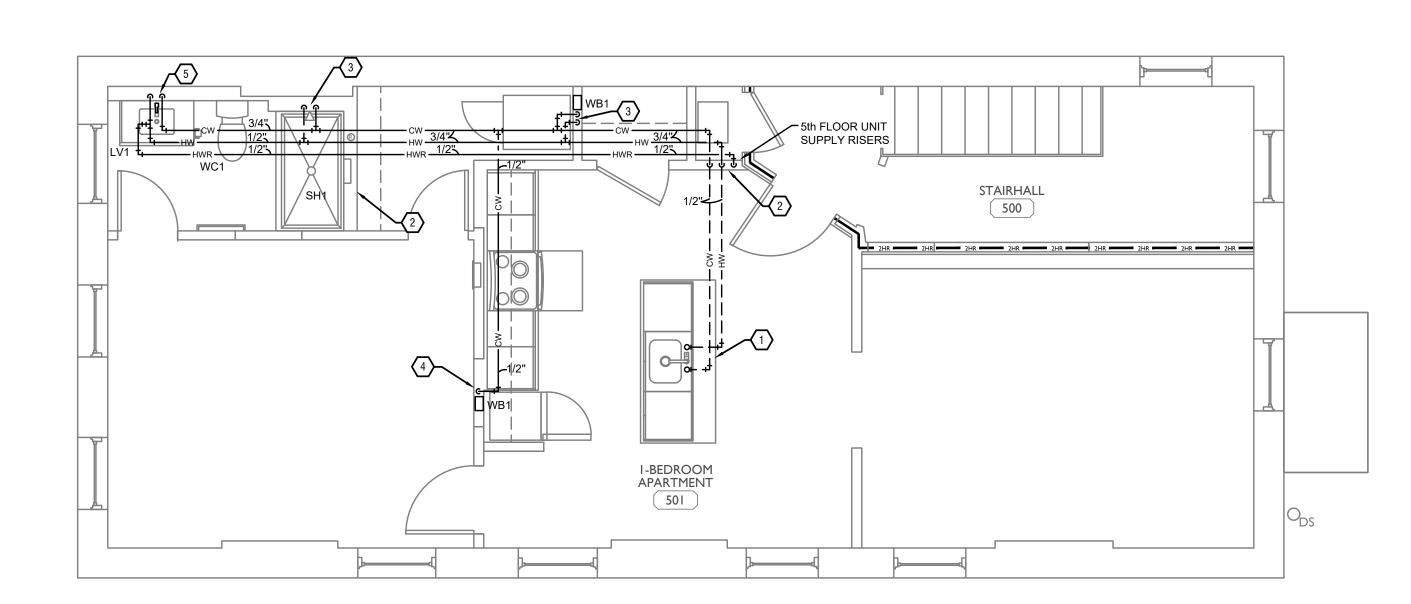
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8/10/2022

Job No: 22042







Z:\~Project Directories\9700-9799\9757 - Findlay Flats Findlay Parkside (Willkommen ? Phase II)\~Construction Documents\~Phase 1 (8 Buildings)\1808 REPUBLIC\9757-P1-05-PLUMBING-FIFTH-PLAN.dwg-EBS. Plot Date/Time: May 05, 2023-1:00pm - B \$(++)
THESE DRAWINGS AND SPECIFICATIONS ARE NOT AUTHORIZED TO BE USED AS CONTRACT DOCUMENTS. THESE DRAWINGS HAVE BEEN PREPARED TO DEMONSTRATE COMPLIANCE WITH APPLICABLE CODES, AND ARE INSTALLING CONTRACTOR IS RESPONSIBLE TO ENSURE THAT MEANS, METHODS, AND MATERIALS USED IN CONSTRUCTION ARE INSTALLING CONTRACTOR IS RESPONSIBLE TO ENSURE THAT MEANS, METHODS, AND MATERIALS USED IN CONSTRUCTION ARE INSTALLED IN ACCORDANCE WITH ANY CONTRACTOR, ETC.

PLUMBING FOURTH FLOOR KEYED NOTES

- 1. 1/2" HOT AND COLD WATER DOWN IN WALL. 1/2" HOT AND COLD WATER TO KITCHEN SINK, 1/2" HOT WATER TO DISHWASHER.
- 3/4" HOT WATER, COLD WATER AND 1/2" HOT WATER RETURN PIPING UP FROM FLOOR BELOW.
- 3. 1/2" HOT AND COLD WATER TO SERVE PLUMBING FIXTURE.
- 4. 1/2" COLD WATER PIPING DOWN TO SERVE VALVE BOX FOR REFRIGERATOR.
- 1/2" HOT WATER AND 3/4" COLD WATER DOWN. 1/2" HOT AND COLD WATER TO LAVATORY AND 1/2" COLD WATER TO WATER CLOSET.



Progress Dates 05/05/2023 BID P/E/FP

Revisions

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Job No: 22042 8/10/2022

P1.05

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

ARCHITECT. ALL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR

- g. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL NECESSARY PLUMBING PIPING PENETRATIONS. THIS INCLUDES CORING
- 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 CODE RECOMMENDED CLEARANCES.
- . 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

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.

B. 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

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

100 OR EQUAL PUMP MANUFACTURED BY ARMSTRONG, GRUNDFOS, OR

g. 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.

WATER CLOSET DESCRIPTION

WC1 | FLOOR-SET TANK

FIXTURE MANUFACTURER

FIXTURE MODEL #

AMERICAN STANDARD CADET 3 WITH CONCEALED TRAPWAY NOT APPLICABLE

REDUCED PRESSURE BACKELOW PREVENTER TO BE FOUND TO WATTS

SERIES LF919QT. APPROVED MANUFACTURERS OF EQUAL PRODUCTS

e. ADJUST ALL STOPS AND VALVES PROPERLY PRIOR TO PROJECT

MANUFACTURER.

COMPLETION.

HOURS OF OPERATION.

7. TAB METERS FOR DOMESTIC WATER

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

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

MATERIALS (ASTM) AND ANSI/NSF STANDARDS 14 AND 61. CPVC PIPE AND

FITTINGS ARE FXTRUDED/MOLDED FROM CPVC COMPOUNDS. THE PIPE

FITTINGS ARE MANUFACTURED IN NORTH AMERICA AND MEET OR EXCEED

- 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
- 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.

AND ACCEPTABLE. THESE COUPLINGS ARE LISTED WITH NSF

- 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. 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 FLANGE, WEEP HOLES, WITH 9" DIAMETER HEAVY-DUTY DUCTILE IRON 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.

WATER HEATER SCHEDUL

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 3/2" 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 FINISHED AREAS. 24. ACCESS PANELS

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 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

- 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 DISSIMILAR METALS

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

> Progress Dates 05/05/2023 BID P/E/FP

Checked By: SSS

Drawn by: DAG



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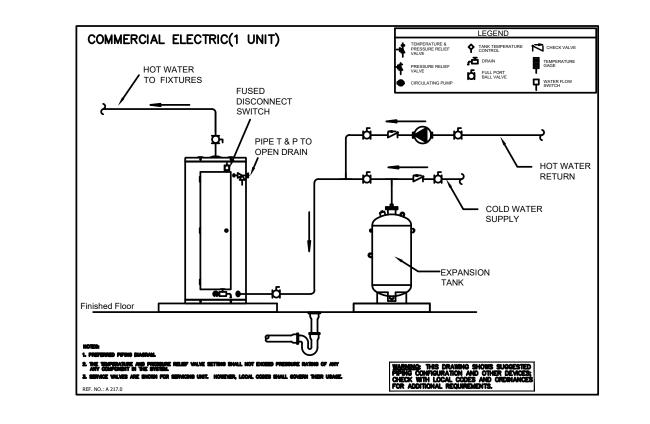
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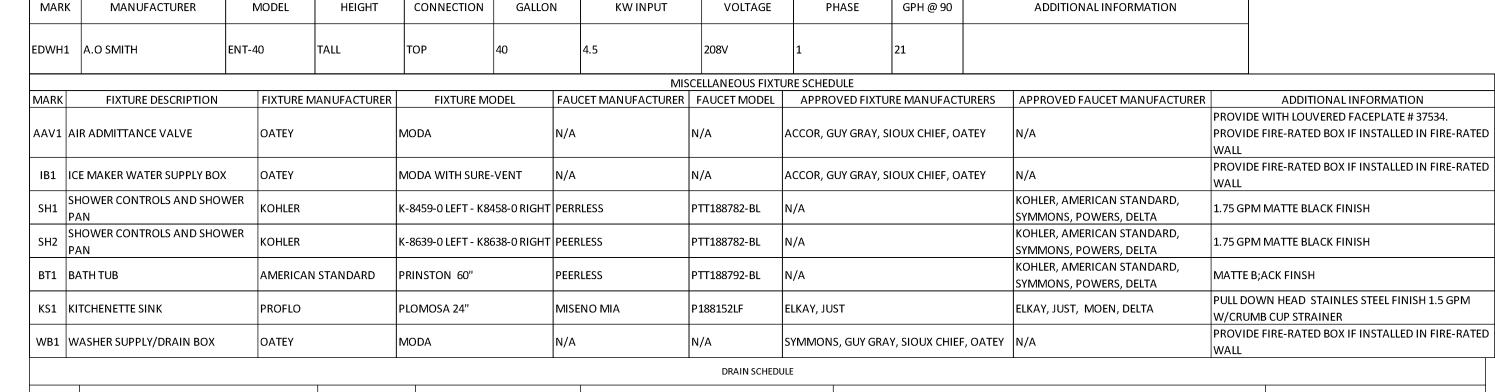
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8/10/2022



ACCEPTABLE MANUFACTURERS

AMERICAN STANDARD, KOHLER, ZURN



MARK	DESCRIPTION	DESCRIPTION BASE MANUFACTURER MODEL#		FINISH	ADDITIONAL FEATURES	ACCEPTABLE MANUFACTURERS
DN1	DOWNSPOUT NOZZLE	ZURN	Z199-SS	NICKEL-BRONZE BODY	REMOVABLE STAINLESS STEEL SCREEN	ZURN, SMITH, WATTS, WADE, JOSAM, MIFAB
FD1	ON-GRADE FLOOR DRAIN (UNFINISHED AREAS)	OATEY	TRUE SET ON-GRADE TP SERIES	PVC BODY, 5" NICKEL-BRONZE STRAINER WITH RING	TRAP PRIMER, SQUARE STRAINER IF INSTALLED IN TILE FLOOR	SIOUX CHIEF, OATEY, NSF, JUMBO
FD2	ABOVE-GRADE FLOOR DRAIN (UNFINISHED AREAS)	OATEY	TRUE SET FLANGED TP SERIES	PVC BODY, 5" NICKEL-BRONZE STRAINER WITH RING	FLANGED DRAIN, TRAP PRIMER, SQUARE STRAINER IF INSTALLED IN TILE FLOOR	SIOUX CHIEF, OATEY, NSF, JUMBO
OD1	OVERFLOW ROOF DRAIN	SIOUX CHIEF	868-E-S-U-STP2	PVC BODY, POLYETHYLENE DOME	EXTENSION, ROOF SUMP, UNDERDECK CLAMP	SIOUX CHIEF, OATEY, NSF, JUMBO
RD1	ROOF DRAIN	SIOUX CHIEF	868-E-S-U	PVC BODY, POLYETHYLENE DOME	EXTENSION, ROOF SUMP, UNDERDECK CLAMP	SIOUX CHIEF, OATEY, NSF, JUMBO

NUMBER

NOT APPLICABLE

MANUFACTURER

MATERIAL

USE

|GENERAL/ADA |FLOOR

		LAVATORY SCHEDULE														
N	ARK	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	ı	UNDERMOUNT	KOHLER	K-2000	DELTA	MODERN BLACK 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	,	WALL-HUNG ADA	PROFLO	PF5414WH	AMERICAN STANDARD	73385007	CHINA	ADA	WALL-HUNG	N/A	MANUAL	0.5	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
					•					W	ATER CLOSET SCHEDULI					
		FLUSH VALVE FLUSH VALVE MODEL														

LELONGATED

| FLUSH VALVE TYPE

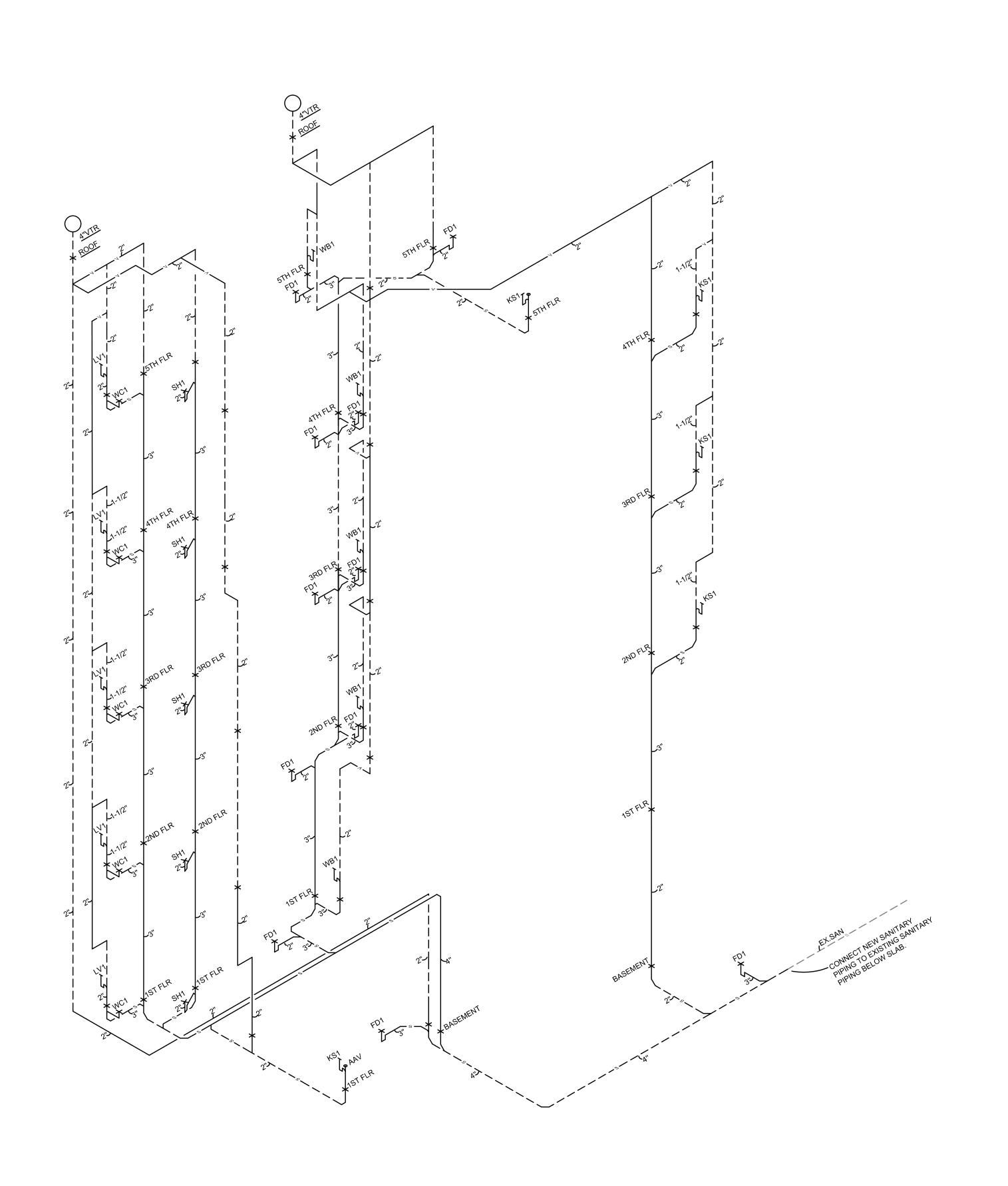
CONTROL

FLOW RATE

SEAT-TYPE

MOUNTING

APPROVED FLUSH VALVE MANUFACTURERS | ADDITIONAL INFORMATION



Progress Dates 05/05/2023 BID P/E/FP Checked By: SSS Drawn by: DAG ENGINEERED BUILDING SYSTEMS INC. TEAMWORK • COLLABORATION
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