Add-Reno Coventry Development

<u>Wall Types</u>

Exterior walls 2x6 wood stud Interior walls 2x4 wood stud, unless noted otherwise Wall Keys

(2) 2x wood studs on the flat

(6) 2x6 wood stud wall, 16" oc

Note: 2x4 wood stud wall, 16" oc unless otherwise noted

Key Notes

A 30" x 22" Minimum Attic Access Panel - Insulated (RO 34" x 26") Field locate for plumbing or mechanical

Verify size of fixture or appliance Adjust dimensions to accommodate

Center - Place door or window centered on wall

(SD) Smoke Detector (HD) Heat Detector

CO Carbon Monoxide Detector

Dimensions

Dimensions are to face of stud, unless noted otherwise.
 Closets are 24" clear inside, unless dimensioned otherwise.

<u>Square Footages</u>

- 1. Sq ft numbers are interior to room for use in calculating finishes.
- Cabinets and fixtures not subtracted.
 Add for doorways when floor finishes run through.

<u>Notes</u>

- 1. Exterior walls 2x6 wood stud @ 16" oc. Provide insulation & vapor barrier conforming to state or local codes. Interior sheathing 1/2" gypsum board. Provide 1/2" exterior rated sheathing, house wrap with drainage plane and siding. Provide step flashing at walls adjacent to roof planes.
- 2. Interior walls 2x4 wood stud @ 16" oc, unless noted otherwise.
- 3. Roof see structural for rafter sizes. Provide 5/8" exterior rated roof sheathing or code compliant alternate, 15# roofing felt, ice & water shield at eaves and valleys, aluminum drip edge and asphalt shingles or metal roofing. Structure not calculated to support slate or tile. Flash all penetrations. Provide cricket at any added chimneys.
- 4. Provide roof and/or ceiling insulation per code. Provide soffit and ridge vents where required for insulation strategy. (Verify with code officer closed cell spray foam or dense-pack cellulose installed at rafters and filling ridge and eaves generally contra-indicates venting, batt insulation always requires venting).
- 5. Provide smoke, carbon monoxide, and heat detectors where shown and where required by code and where required by local authorities.
- 6. Provide fire resistive materials where required by code, including but not limited to, firestopping at penetrations, 5/8" Type X drywall on walls and ceilings to separate garage (where garage present in design) from dwelling, and separation of dwellings (where more than one dwelling present in design), and protection of flammable insulation materials. See Table R302.6 IRC 2015.
- Compliance with code requirements for rooms size and clearances, (hallway widths, room sizes, etc) assume 1/2" drywall on walls and 1/2" drywall on 3/4" strapping on ceilings. Adjust as required if materials differ.
- 8. Shear is only called out where continuous sheathing wood structural panel method will not suffice. See plans for locations where alternate shear methods are required.

General Design Notes

- 1 Builder shall consult and follow the building code and other regulations in effect for the building site for all construction details not shown in these drawings. Requirements described here are specific to this design and/or are provided as reference. Additional building code or local requirements may apply.
- 2 Builder shall maintain a safe worksite, including but not limited to, provision of temporary supports where appropriate and adherence to applicable safety standards.
- 3 Design is based on the snow load listed on the framing plans, 100 mph basic wind speed, Exposure type B, soil bearing capacity of 2000 psf, and Seismic Category C, unless otherwise noted on the framing plans. Builder shall promptly inform Artform Home Plans of differing conditions.

The general contractor shall review all documents and field conditions prior to construction. Existing dimensions override any minor discrepancies in alignment and should be confirmed with architect for clarification.

These drawings are intended for use by an experienced professional builder in responsible charge of the entire project, including but not limited to mechanical, electrical and sitework. Any additional adaptation for these trades or other trades must be determined prior to start of construction. Contact Artform for any adjustments needed.



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Coventry Development



1. Wood Studs — Double row of nominal 2 x 4 in. studs. spaced 16 in. OC and cross-braced at mid-height. Opposite rows spaced 1 in. apart, staggered 8 in. OC and joined at the top and bottom with bearing plates.

2. Bearing Plates — (not shown) Nominal 2 x 4 in. Two layers on top and one layer on bottom for each row of studs.

3. Wallboard, Gypsum* — For 1-1/2 Hr Rating — Finish rating is 20 minutes. One layer of 5/8 in. thick wallboard, 4 ft wide. Applied vertically and nailed to studs and bearing plates 7 in. OC with 6d cement coated nails, 1-7/8 in. long, 0.0915 in. shank diameter and 1/4 in. diameter head. Vertical joints centered over studs. As an alternative, No. 6 bugle head drywall screws, 1-7/8 in. long may be substituted for the 6d cement coated nails. For 2 Hr Rating (Not Shown) — Finish rating is 31 minutes. Two layers of 5/8 in. thick wallboard, 4 ft wide. Inner layer applied vertically and nailed to studs and bearing plates 6 in. OC with 6d cement coated nails, 1-7/8 in. long, 0.0915 in. shank diameter and 1/4 in. diameter head, with first nail starting 3 in. from all edges. Outer layer applied vertically and nailed to studs and bearing plates 8 in. OC with 8d cement coated nails, 2-3/8 in. long, 0.113 in. shank diameter and 9/32 in. diameter head, with first nail starting 4 in. from all edges. Vertical joints centered over studs. All joints in face layers staggered with joints in base layers. UNITED STATES GYPSUM CO — Type C

4. Joints and Nailheads — (Not shown) — Wallboard joints taped and both joints and nailheads covered with joint compound.

Door & Window Notes:

1. Window Labels: In floor plans and elevations, the letters following the label stand for... (E) Egress Window

(T) Tempered Glass Window

See Window Schedule for additional window information.

2. Door Labels: In floor plans, the letter following the label stands for...

(F) Fire Rated Door

2a. Rated Doors - Doors requiring fire rating and/or required to be self-closing per IRC 2015 are specified in plans. Additional fire doors and/or self closing doors that may be required by local codes or local authorities are not specified here and would need to be provided. See Door Schedule for additional door information

3. Tempering: Glazing in both Windows & Doors shall follow IRC section R308.

3a. Window Glazing - Windows in hazardous locations have been specified as tempered in plan. **3b. Door Glazing** - Due to the varying styles of doors, the quantity of glass, glass type/glass styling in those doors, we do not specify tempered doors in plan. Provide tempered doors as required by IRC and local codes or local authorities

4. Window Fall Protection: Windows requiring fall protection are noted in schedule. Builder to provide window fall prevention or opening control device in accordance with Sections R312.2.1 & R312.2.2

5. Trimmed Openings: Trimmed openings not shown on schedule. See Plan.

6. Window RO: 1/4" on each of (4) sides shown for window RO, typical. Review framing size vs RO size. Adjust per manufacturer's requirements and/or builder preference.

7. Emergency Escape & Rescue Opening: Provide minimum one exterior door, window or similar device meeting egress requirements in basement, in each sleeping room, in each potential sleeping room, and other locations required by local code. The window sill of an egress window shall be no more than 44" above the floor per R310.2.2. Note that some windows coded by manufacturer as meeting IRC 2015 egress requirements typically need to be ordered with specific hardware or required modifications. Emergency Escape Window & Door Sizes must meet minimum opening area. (Section R310.2.1 and R310.3.1). Will also comply with NFPA 101.

8. Basement Windows: Add basement windows as required to meet state or local code requirements, including but not limited to egress and light/ventilation.

9. Skylights: Skylights are not shown on this schedule, but may be required. Consult builder and/or see floor plan.

	DOOR SCHEDULE									
	NUMBER	FLOOR	QTY	SIZE	WIDTH	HEIGHT	FIRE	TYPE	COMMENTS	
L	D02	1	1	3068 R IN	36 "	80 "	YES	HINGED		
8	D03	1	1	3068 R EX	36 "	80 "	YES	HINGED		
يt ۲	D04	1	1	4068 L EX	48 "	80 "	YES	HINGED	NEW DOOR PARTIALLY IN EXISTING RO	
irs	D05	1	1	3068 R IN	36 "	80 "		HINGED	NEW DOOR PARTIALLY IN EXISTING RO	
ш	D06	2	3	2468 L IN	28 "	80 "		HINGED		
	D07	2	1	2468 L IN	28 "	80 "		HINGED	NEW DOOR IN EXIST WALL	
	D08	2	1	2468 L	28 "	80 "		POCKET		
	D09	2	3	2468 R IN	28 "	80 "		HINGED		
5	D10	2	4	2868 L IN	32 "	80 "		HINGED		
00	D12	2	1	3068 R IN	36 "	80 "	YES	HINGED		
ш	D13	2	2	3068 L IN	36 "	80 "	YES	HINGED		
ouo	D14	2	1	3068 L EX	36 "	80 "		HINGED		
ec	D15	2	1	3068 R EX	36 "	80 "		HINGED		
S	D16	2	2	3068 R	36 "	80 "		2 DR. BIFOLD		
	D17	2	2	4068 R IN	48 "	80 "		SLIDER		
	D18	3	1	2468 L IN	28 "	80 "		HINGED		
	D19	3	1	2468 R	28 "	80 "		POCKET		
	D20	3	1	2468 L	28 "	80 "		POCKET		
	D21	3	1	2668 L IN	30 "	80 "		HINGED	NEW DOOR IN EXIST WALL	
	D22	3	2	2868 L IN	32 "	80 "		HINGED		
	D24	3	2	3068 L IN	36 "	80 "	YES	HINGED		
r	D25	3	1	3068 R IN	36 "	80 "		HINGED		
	D26	3	2	4068 L IN	48 "	80 "		SLIDER		
ц р	D27	3	2	4068 L/R IN	48 "	80 "		DOUBLE HINGED		
hir	D28	3	1	6068 L IN	72 "	80 "		SLIDER		
F	D29	3	1	6068 R EX	72 "	80 "		SLIDER		
	D30	3	1	6068 L EX	72 "	80 "		SLIDER		

		NUMBER	FLOOR	QTY	WIDTH	HEIGHT	R/O	EGRESS	TEMPERED	DESCRIPTION	COMMENTS	
i		W01	1	1	21 1/2 "	65 1/2 "	22"X66"		YES	DOUBLE HUNG	NEW WINDOW IN EXISTING RO - 1HR FIRE RATING	
	L	W02	1	2	31 1/2 "	65 1/2 "	32"X66"			DOUBLE HUNG	NEW WINDOW IN EXISTING RO	
	8	W03	1	7	35 1/2 "	65 1/2 "	36"X66"			DOUBLE HUNG	NEW WINDOW IN EXISTING RO	
	μ	W04	1	1	35 1/2 "	65 1/2 "	36"X66"		YES	DOUBLE HUNG	NEW WINDOW IN EXISTING RO - 1HR FIRE RATING	
	ils.	W05	1	7	35 1/2 "	65 1/2 "	36"X66"			DOUBLE HUNG	NEW WINDOW	
	ш	W06	1	2	35 1/2 "	71 1/2 "	36"X72"			DOUBLE HUNG	NEW WINDOW IN EXISTING RO	
		W07	1	1	47 1/2 "	23 1/2 "	48"X24"			FIXED GLASS	NEW WINDOW IN EXISTING RO	
		W08	2	1	55 "	51 1/2 "	55 1/2"X52"	YES		DOUBLE CASEMENT-LHL/RHR	NEW WINDOW PARTIALLY IN EXISTING RO	
		W09	2	1	23 1/2 "	47 1/2 "	24"X48"		YES	DOUBLE HUNG	NEW WINDOW	
		W10	2	2	31 1/2 "	51 1/2 "	32"X52"			DOUBLE HUNG	NEW WINDOW IN EXISTING RO	
	Floor	W11	2	4	35 1/2 "	65 1/2 "	36"X66"			DOUBLE HUNG	NEW WINDOW	
		W12	2	4	35 1/2 "	65 1/2 "	36"X66"	YES		DOUBLE HUNG	NEW WINDOW IN EXISTING RO	
		W13	2	1	35 1/2 "	65 1/2 "	36"X66"		YES	DOUBLE HUNG	NEW WINDOW IN EXISTING RO	
	р	W14	2	1	35 1/2 "	65 1/2 "	36"X66"		YES	DOUBLE HUNG	NEW WINDOW IN EXISTING RO - 1HR FIRE RATING	
	8	W15	2	1	47 1/2 "	51 1/2 "	48"X52"			DOUBLE HUNG	NEW WINDOW IN EXISTING RO	
	Se	W16	2	1	47 1/2 "	65 1/2 "	48"X66"		YES	DOUBLE HUNG	NEW WINDOW IN EXISTING RO - 1HR FIRE RATING	
		W17	2	2	41 1/2 "	23 1/2 "	42"X24"			FIXED GLASS	NEW WINDOW	
		W18	2	1	41 1/2 "	23 1/2 "	42"X24"		YES	FIXED GLASS	NEW WINDOW IN EXISTING RO - 1HR FIRE RATING	
		W19	2	1	41 1/2 "	23 1/2 "	42"X24"			FIXED GLASS	NEW WINDOW IN EXISTING WALL	
ird		W20	3	3	23 1/2 "	47 1/2 "	24"X48"		YES	DOUBLE HUNG	NEW WINDOW IN EXISTING RO	
	n p	W21	3	2	23 1/2 "	59 1/2 "	24"X60"			FIXED GLASS-AT	NEW WINDOW IN EXISTING RO	
Ē	ΞĔ	W22	3	1	35 1/2 "	65 1/2 "	36"X66"	YES		DOUBLE HUNG-AT	NEW WINDOW IN EXISTING RO	
		W23	3	2	59 "	59 1/2 "	59 1/2"X60"	YES		DOUBLE CASEMENT-LHL/RHR	NEW WINDOW IN EXISTING RO	

5. Loose Fill Materials* — Blown-in fiberglass loose-fill insulation material. The insulation is blown into the wall cavity to completely fill the enclosed 8in. cavity in accordance with the application instructions supplied with the product. The minimum average overall density is 2.6 lb/ft3 dry blown, with no individual density less than 2.2 lb/ft3 dry blown. OWENS CORNING — ProPink Complete, ProPink L77 or ProPink Multi-

6. Retention Fabric — (Not shown) - ProPink Complete, ProPink L77 or ProPink Multi-Spec non-woven fibrous fabric material attached with staples to the outer face of one row of studs to facilitate the installation of the insulation.

BXUV - Fire Resistance Ratings ANSI/UL 263 BXUV7 - Fire Resistance Ratings CAN/ULCS101 Certified for Canada See General Information for Fire resistance Ratings ANSI/UL 263

See General Information for Fire Resistance Ratings CAN/ULCS101Certified for Canada

<u>Design No. U356</u> April 30, 2015 (Exposed to Fire on Interior Face Only) Bearing Wall Rating — 1 Hr Finish Rating — 23 Min or 25 Min (See Item 2C)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used —See Guide BXUV or BXUV7 * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions

employing the UL or cUL Certification (such as Canada), respectively.

- 1. Wood Studs Nom 2 by 4 in. spaced 16 in. OC with two 2 by 4 in. top and one 2 by 4 in. bottom plates. Studs laterally braced by wood structural panel sheathing (Item 5). When Mineral and Fiber Boards* (Item 5A) are considered as bracing for the studs, the load is restricted to 76% of allowable axial load. Walls effectively fire stopped at top and bottom of wall
- 2. Gypsum Board* Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501. G512 or U305. Nom 5/8 in. thick, 4 ft wide, applied vertically and nailed to studs and bearing plates 7 in. OC with 6d cement coated nails, 1-7/8 in. long with 1/4 in. diameter head. When Item 7, Steel Framing Members*, is used, gypsum panels attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.

When Item 7A, 7B, or 7C Steel Framing Members*, is used, two layers of gypsum panels attached to furring channels. Base layer attached to furring channels with 1 in. long Type S buglehead steel screws spaced 12 in. OC. Face layer attached to furring channels with 1-5/8 in. long Type S bugle-head steel screws spaced 12 in. OC. All joints in face layers staggered with joints in base lavers.

- ACADIA DRYWALL SUPPLIES LTD (View Classification) CKNX.R25370
- AMERICAN GYPSUM CO (View Classification) CKNX.R14196 - BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO (View Classification) — CKNX.R19374 - CERTAINTEED GYPSUM INC (View Classification) — CKNX.R3660
- CGC INC (View Classification) CKNX.R19751 - CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C (View Classification) —
- CKNX R18482 - GEORGIA-PACIFIC GYPSUM L L C (View Classification) — CKNX.R2717
- LOADMASTER SYSTEMS INC (View Classification) CKNX.R11809 - NATIONAL GYPSUM CO (View Classification) — CKNX.R3501
- PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM (View Classification) --CKNX R7094
- PANEL REY S A (View Classification) CKNX.R21796 - SIAM GYPSUM INDUSTRY (SARABURI) CO LTD (View Classification) — CKNX.R19262 - THAI GYPSUM PRODUCTS PCL (View Classification) — CKNX.R27517
- UNITED STATES GYPSUM CO (View Classification) CKNX.R1319
- USG MEXICO S A DE C V (View Classification) CKNX.R16089

2A. Gypsum Board* — (As an alternate to Item 2, not shown) Any 5/8 in. thick 4 ft wide gypsum panels that are eligible for use in Design Nos. L501, G512 or U305, supplied by the Classified Companies listed below shown in the Gypsum Board* (CKNX) category. Applied vertically and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board.

- CGC INC - UNITED STATES GYPSUM CO - USG MEXICO S A DE C V

2B. Gypsum Board* — (As an alternate to Item 2, not shown) 5/8 in. thick 4 ft wide gypsum panels applied vertically and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board.

- ACADIA DRYWALL SUPPLIES LTD Type X, 5/8 Type X, Type Blueglass Exterior Sheathing - AMERICAN GYPSUM CO — Types AGX1.MGlass.AGC - CERTAINTEED GYPSUM INC — Type C, Type X or Type X1
- GEORGIAPACIFIC GYPSUM L L C Types X, Veneer Plaster BaseType X, Water RatedType X, Sheathing TypeX, SoffitType X, Type X ComfortGuard Sound Deadening Gypsum Board. - PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types PG11, PGSWRS. - THAI GYPSUM PRODUCTS PCL — Type C or Type X

2C. Gypsum Board* — (As an alternate to Item 2, not shown) ForUse with Item 5A only 5/8 in. thick 4 ft wide gypsum panels applied horizontally and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screws 1 in.and 4 in. from edges of board. Finish Rating is 25 min.

- ACADIA DRYWALL SUPPLIES LTD — 5/8 Type X, Type Blueglass Exterior Sheathing - GEORGIAPACIFIC GYPSUM L L C - Type X, Veneer Plaster BaseType X, Water RatedType X, Sheathing TypeX, SoffitType X - PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types PG11, PGSWRS.

2D. Gypsum Board* — (As an alternate to Item 2) Not to be used with item 7. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and fastened to the studs and plates with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam heads, 7 in. OC.

NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum Board

2E Gypsum Board* — (As an alternate to Items 2 through 2D) — Nominal 5/8 in. thick, 4 ft wide panels, secured as described in Item 2.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES. **2F. Gypsum Board*** — (As an alternate to Item 2) Not to be used with item 7. 5/8 in. thick. 4 ft. wide, paper surfaced, applied vertically only and fastened to the studs and plates with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam heads, 7 in. OC.

CERTAINTEED GYPSUM INC — Type SilentFX

2G. Wall and Partition Facings and Accessories* — (As an alternate to Items 2 through 2F) — Nominal 5/8 in. thick, 4 ft wide panels, secured as described in Item 2.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527.

3. Joints and Nailheads — (Not Shown) — Wallboard joints covered with tape and joint compound. Nail heads covered with joint compound.

4. Batts and Blankets* — Mineral fiber or glass fiber insulation, 3-1/2 in. thick, pressure fit to fill wall cavities between studs and plates. Mineral fiber insulation to be unfaced and to have a min density of 3 pcf. Glass fiber insulation to be faced with aluminum foil or kraft paper and to have a min density of 0.9 pcf (min R13 thermal insulation rating). See Batts and Blankets* (BKNV) Category in the Building Materials Directory and Batts and Blankets* (BZJZ) Category in the Fire Resistance Directory for names of Classified Companies.

4A. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 4) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft3. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft3, in accordance with the application instructions supplied with the product.

U S GREENFIBER L L C — INS735 & INS745 for use with wet or dry application. INS510LD, INS515LD, INS541LD, INS735, INS745, INS765LD, and INS770LD are to be used for dry application only.

Cellulose Insulation

studs

5A. Mineral and Fiber Boards* — As an alternate to Item 5 Min 1/2 in. thick, 4 ft wide sheathing installed vertically to study. Vertical joints centered on study. Horizontal joints backed with nom 2 bv 4 in. wood blocking. Attached to studs on exterior side of wall with 1-1/2 in. long galvanized roofing nails spaced 6 in. OC at perimeter of panels and 12 in. OC along interior studs. As an option a weather resistive barrier may be applied over the Mineral and Fiber Boards.

4B. Fiber, Sprayed* — As an alternate to Item 4 and 4A — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 4.58 lb/ft 3.NUWOOL CO INC —

4C. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 4) Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft3.

INTERNATIONAL CELLULOSE CORP — CelbarRL

5. Wood Structural Panel Sheathing — Min 7/16 in. thick, 4 ft wide wood structural panels, min grade "CD" or "Sheathing" . Installed with long dimension of sheet (strength axis) or face grain of plywood parallel with or perpendicular to studs. Vertical joints centered on studs. Horizontal joints backed with nom 2 by 4 in. wood blocking. Attached to studs on exterior side of wall with 6d cement coated box nails spaced 6 in. OC at perimeter of panels and 12 in. OC along interior

GEORGIAPACIFIC PANEL PRODUCTS L L C — Types FiberBrace or QuietBrace

6. Exterior Facings — Installed in accordance with the manufacturer's installation instructions. One of the following exterior facings is to be applied over the sheathing:

A. Vinyl Siding — Molded Plastic* — Contoured rigid vinyl siding having a flame spread value of 20 or less. See Molded Plastic (BTAT) category in the Building Materials Directory for names of manufacturers. **B.** Particle Board Siding — Hardboard exterior sidings including patterned panel

or lap siding. C. Wood Structural Panel or Lap Siding — APA Rated Siding, Exterior, plywood, OSB or composite panels with veneer faces and structural wood core, per PS 1 or APA Standard PRP108, including textured, rough sawn, medium density overlay,

brushed, grooved and lap siding. **D. Cementitious Stucco** — Portland cement or synthetic stucco systems with selffurring metal lath or adhesive base coat. Thickness from 3/8 to 3/4 in., depending on system.

E. Brick Veneer — Any type on nom 4 in. wide brick veneer. When brick veneer is used, the rating is applicable with exposure on either face. Brick veneer fastened with corrugated metal wall ties attached over sheathing to wood studs with 8d nail per tie: ties spaced not more than each sixth course of brick and max 32 in. OC horizontally. One in. air space provided between brick veneer and sheathing. F. Exterior Insulation and Finish System (EIFS) — Nom 1 in. Foamed Plastic*

insulation bearing the UL Classification Marking, attached over sheathing and finished with coating system, or Portland cement or synthetic stucco systems, in accordance with manufacturer's instructions. See Foamed Plastic (BRYX and CCVW) categories for names of Classified companies. **G. Siding** — Aluminum or steel siding attached over sheathing to studs. H. FiberCementSiding — Fibercement exterior sidings including smooth and

patterned panel or lap siding. 6A. Building Units* — As an alternate to Exterior Facing Item 6 — , Insulated steel panels, 12

through 42 in. wide. Attached over sheathing through retainer clips to studs or support steel with No. 14 hex head self-tapping screws located at each joint in the concealed lip of the units and spaced in accordance with the structural design requirements.

KINGSPAN INSULATED PANELS INC — Types 200, 300, 400, 900, or KS series, 2 through 6 in. thickness; CWPV, H, 2 through 3 in. nominal thickness or Design-wall 2000 or Design-wall 4000, 2 and 3 in. nominal thickness.

7. Steel Framing Members — (Optional, Not Shown)* — Furring Channels and Steel Framing Members as described below:

a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 2. b. Steel Framing Members* — Used to attach furring channels (Item 7A) to studs . Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. RSIC1 clip for use with 2-9/16 in. wide furring channels. RSIC1 (2.75) clip for use with 223/ 32 in. wide furring channels.

PAC INTERNATIONAL INC — Types RSIC1.RSIC1(2.75).

7A. Steel Framing Members (Optional, Not Shown)* — Furring channels and Steel Framing Members as described below:

a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. Two layers of gypsum board attached to furring channels as described in Item 2. **b. Steel Framing Members*** — Used to attach furring channels (Item 7Aa) to interior side of studs. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.

KINETICS NOISE CONTROL INC — Type Isomax.

7B. Steel Framing Members* — (Optional, Not Shown) Furring channels and Steel Framing Members as described below:

a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 2. **b. Steel Framing Members*** — Used to attach furring channels (Item a) to studs.

Clips spaced 48 in. OC. Genie clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

PLITEQ INC — Type Genie Clip

7C. Steel Framing Members — (Optional, Not Shown)* Furring channels and resilient sound isolation clip as described below:

a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured together with four self-tapping No. 8x1/2 Self Drilling screws (2 per side 1 in.and 4 in. from overlap edge). Gypsum board attached to furring channels as described in Item 2. Side joint furring channels shall be attached to studs with RESILMOUNT Sound Isolation Clips Type A237R located approximately 2 in. from each end of length of channel. Both Gypsum Boards at side joints fastened into channel with screws

spaced 8 in. OC, approximately 1/2 in. from joint edge. **b. Steel Framing Members*** — Resilient sound isolation clip used to attach furring channels (Item 7Ca) to studs. Clips spaced 16 in. OC., and secured to studs with No. 10 x 2-1/2 in.coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips Type A237R

8. NonBearing Wall Partition Intersection — (Optional) Two nominal 2 by 4 in. stud or nominal 2 by 6 in. stud nailed together with two 3in. long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max 16 in. OC. vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by with a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Maximum one nonbearing wall partition intersection per stud cavity. Nonbearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Art Form Architecture, Inc.	
Addition / Renovation Project © 2022 Art Form Architecture 603.431.9559	
Coventry Development 2 Punchard Ave Andover, MA	
1/4"=1'-0" unless noted otherwise / Print @ 1:1 PDF created on: 9/27/2022, drawn by Rachel Jones	Issued for: PRELIN

1. Nailheads — Exposed or covered with joint compound.

2. Joints — Exposed joints covered with joint compound and paper tape. Joint compound and paper tape may be omitted when square edge boards are used. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with the joints reinforced with paper tape.

3. Nails — 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam, 1/4 in. diam heads, and 8d cement coated nails 2-3/8 in. long, 0.113 in. shank diam, 9/32 in. diam heads. 4. Gypsum Board* — 5/8 in. thick, two layers applied either horizontally or vertically. Inner layer attached to studs with the 1-7/8 in. nails spaced 6 in. OC. Outer layer attached to studs over inner layer with the 2-3/8 in. long nails spaced 8 in. OC. Vertical joints located over studs. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side.

When used in widths other than 48 in., gypsum board to be installed horizontally

When Steel Framing Members* (Item 6 or any alternate clips) are used, base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced max 24 in. OC; face layer attached with 1-5/8 in. long Type S bugle-head steel screws spaced max 12 in. OC. AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C, AGX-11, LightRoc

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1

CABOT MANUFACTURING ULC — Type X, 5/8 Type X, Moisture Resistant Type X, Gypsum Sheathing Type X, Mold & Mildew Resistant Type X and Mold & Mildew Resistant AR Type X, Type Blueglass Exterior Sheathing

CERTAINTEED GYPSUM INC — Types EGRG, GlasRoc, GlasRoc-2, Type C, Type X-1

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, ULX, USGX, WRC, WRX

CERTAINTEED GYPSUM INC — Types LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD, LGLLX, CLLX

GEORGIA-PACIFIC GYPSUM L L C — Types 5, 6, 9, C, DAP, DD, DA, DAPC, DGG, DS, GPFS6. LS, TG-C, Type X, Veneer Plaster Base-Type X, Water Rated-Type X, Sheathing Type-X, Soffit-Type X, GreenGlass Type X, Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Type LWX, Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Type LWX, Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Type LWX, Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Type LWX, Type LWX, Type LWX, Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Sheathing Type-LWX, Sheathing Type DGLW, Water Rated-Type DGLW, Sheathing Type- DGLW, Soffit-Type DGLW, Type LW2X, Veneer Plaster Base - Type LW2X, Water Rated - Type LW2X, Sheathing - Type LW2X, Soffit - Type LW2X, Type DGL2W, Water Rated - Type DGL2W, Sheathing - Type DGL2W

NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSW, FSW-3, FSW-5, FSW-6, FSW-8, FSW-C, FSM-G, FSMR-C, FSL, RSX

NATIONAL GYPSUM CO — Riyadh, Saudi Arabia — Type FR, or WR. PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types C, PG-2, PG-3, PG-3W, PG-4, PG-5, PG-5W, PG-5WS, PG-9, PG-11, PG-C, PGS-WRS, PGI

PANEL REY S A — Types PRC, PRC2, PRX, RHX, MDX, ETX, GREX, GRIX

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1

THAI GYPSUM PRODUCTS PCL — Type C or Type X

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC — Types C, SCX, USGX

USG MEXICO S A DE C V — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

4A. **Gypsum Board*** — (As an alternate to Item 4) — Nom 3/4 in. thick, installed as described in Item 4.

CGC INC — Types AR, IP-AR

UNITED STATES GYPSUM CO — Types AR, IP-AR

USG MEXICO S A DE C V — Types AR, IP-AR 4B. Gypsum Board* — (As an alternate to Items 4 and 4A) — 5/8 in. thick, 2 ft wide, tongue and groove edge, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 4. Joint covering (Item 2) not required.

UNITED STATES GYPSUM CO — Type SHX

USG MEXICO S A DE C V — Type SHX

CGC INC — Type SHX

4C. Gypsum Board* — (As an alternate to Items 4, 4A or 4B — Not Shown) — For Direct Application to Studs Only- For use on one or both sides of the wall as the base layer or one or both sides of the wall as the face layer. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field when applied as the base layer. When applied as the face layer screw length to be increased to 2-1/2 in. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-12 pan head steel screws, F4j.one at the top of the strip and one at the bottom of the strip. Lead discs or tabs may be used in lieu of or in addition to the lead batten strips or optional at other locations. Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards underneath screw locations prior to the installation of the screws. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Fasteners for face layer gypsum panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 4. **RAY-BAR ENGINEERING CORP** — Type RB-LBG.

4D. Gypsum Board* — As an Alternate to Item 4 — 5/8 in. thick applied either horizontally or vertically. Inner layers fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. Outer layers fastened to framing with 1-7/8 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum board to be installed horizontally. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side. AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C, LightRoc

4E. Gypsum Board* — (As an alternate to Items 4 through 4D) — 5/8 in. thick, 4 ft. wide, paper surfaced applied vertically and secured as described in Item 4. **GEORGIA-PACIFIC GYPSUM L L C** — Type X ComfortGuard Sound Deadening Gypsum Board

4F. Gypsum Board* — (As an alternate to Item 4) — Not to be used with item 6, 6A, 6B or 6C. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically and secured as described in Item 4.

NATIONAL GYPSUM CO — Type SBWB

4G. Gypsum Board * — (As an alternate to Items 4 through 4F) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4. PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types OuietRock ES

4H. Gypsum Board* — (As an alternate to Item 4) — Not to be used with item 6, 6A, 6B, or 6C. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically or horizontally and secured as described in Item 4.

CERTAINTEED GYPSUM INC — Type SilentFX

4I. Gypsum Board* — (As an alternate to item 4) — 5/8 in. thick, two layers applied either horizontally or vertically. Inner layer attached to stude with 1-1/4 in. long Type W steel screws spaced 8 in. OC. Outer layer attached to study over inner layer with 2 in. long Type W steel screws spaced 8 in. OC offset 6 in. from base layer. Vertical joints located over studs. Vertical and horizontal joints between inner and outer layers staggered. Outer layer joints covered with joint tape and compound, screwheads covered with joint compound. As an alternate to the joint compound nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. Wallboard other than 48 in. wide must be applied horizontally. The SoundBreak XP Type X Gypsum Board is not to be used with Item 6, 6A, 6B, or 6C. NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSW, FSW-3, FSW-5, FSW-6, FSW-C, FSW-G, FSMR-C, SBWB

4J. Gypsum Board* — (As an alternate to Items 4) — For Direct Application to Studs Only- For use as the base layer or as the face layer. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field when applied as the base layer. When applied as the face layer screw length to be increased to 2-1/2 in. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, max 5/16 in. diam by max 0.140 in. thick. compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Fasteners for face layer gypsum panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 4. MAYCO INDUSTRIES INC — "X-Ray Shielded Gypsum"

4K. Gypsum Board* — For use with Item 7 — 5/8 in. thick, two layers applied vertically. Inner layer attached to resilient channels with 1 in. long steel screws spaced 8 in. OC. Outer layer attached to resilient channels over inner layer with 1-5/8 in. long steel screws spaced 8 in. OC. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side. Insulation, Items 8 or 9 is required.

AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C, AGX-11

NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSW, FSW-3, FSW-5, FSW-6, FSW-C, FSW-G, FSMR-C, SBWB. 4L. Gypsum Board* — (As an alternate to Items 4) — For Direct Application to Studs Only- For use as the base layer or as the face layer. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field when applied as the base layer. When applied as the face layer screw length to be increased to 2-1/2 in. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Fasteners for face layer gypsum panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 4. **RADIATION PROTECTION PRODUCTS INC** — Type RPP - Lead Lined Drywall 4M. Gypsum Board* — (As an alternate to Item 4) — 5/8 in. thick, 4 ft. wide, two layers applied vertically with vertical joints centered over studs and staggered one stud

cavity on opposite sides of studs. Secured as described in Item 4.

NATIONAL GYPSUM CO — Type FSW

CERTAINTEED GYPSUM INC — 5/8" Easi-Lite Type X 4N. Gypsum Board* — (As an alternate to 5/8 in. Type FSW in Items 4 or 4I) — Nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Two layers of 5/16 in. for every single layer of 5/8 in. gypsum board described in Item 4 or 4I. Horizontal joints on the same side need not be staggered. Inner layer of each double 5/16 in. layer attached with fasteners, as described in item 4 or 4I, spaced 24 in. OC. Outer layer of each double 5/16 in. layer attached per Item 4 or 4I.

40. Wall and Partition Facings and Accessories* — (As an alternate to Items 4 through 4N) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4.

CGC INC — Type SCX **PANEL REY S A** — Type PRX

UNITED STATES GYPSUM CO — Type SCX

screws spaced 8 in. OC. recommended installation details. VYTEC CORP

wide furring channels.

A. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6Bb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4. **B. Steel Framing Members*** — Used to attach furring channels (Item 6Ba) to studs. Clips spaced 48 in. OC., and secured to studs with 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. **REGUPOL AMERICA** — Type SonusClip

a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 4.

accessory manufacturer's installation instructions.

a Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 4. b Steel Framing Members* — Used to attach furring channels (Item 6Ea) to studs. Clips spaced maximum 48 in. OC. Clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip 7. Furring Channel — Optional — Not Shown — For use on one side of the wall with Item 4K — Resilient channels, 25 MSG galv steel, spaced vertically 24 in. OC, flange portion screw attached to one side of studs with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws. When resilient channels are used, insulation, Item 8

or 9 is required. 8. Batts and Blankets* — Required for use with resilient channels, Item 7, min. 3 in. thick mineral wool batts, placed to fill interior of wall, attached to the nom 4 in. face of the studs with staples placed 24 in. OC.

THERMAFIBER INC — Type SAFB, SAFB FF 9. Batts and Blankets* — (As an alternate to Item 8) — Min. 3 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, friction-fitted to fill the stud cavities. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies. 9A. Fiber, Sprayed* — (Optional) — As an alternate to Batts and Blankets (Item 8), Required for use with resilient channels, Item 7, Not for use with Item 6, 6A, 6B, or 6C. — Spray applied mineral wool insulation. The fiber is applied with adhesive, at a minimum density of 4.0 pcf, to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CCAZ). AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus 10. Wall and Partition Facings and Accessories* — (Optional, Not Shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the wood framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board. PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-500 or QR-510

11. Cementitious Backer Units* — (Optional Item Not Shown — For Use On Face Of 2 Hr Systems With All Standard Items Required) — 7/16 in., 1/2 in., 5/8 in., 3/4 in. or 1 in. thick, min. 32 in. wide. Applied horizontally or vertically with vertical joints centered over studs. Face layer fastened over gypsum board to studs and runners with cement board screws of adequate length to penetrate stud by a minimum of 3/8 in. for steel framing members, and a minimum of 3/4 in. for wood framing members spaced a max of 8 in. OC. **NATIONAL GYPSUM CO** — Type DuraBacker, PermaBase, DuraBacker Plus, or PermaBase Plus 12. Wall and Partition Facings and Accessories* — (Optional, Not Shown) - When the Wall Assembly is used as an External Wall, on the External side of the wall one of the following Wall and Partition and Facing Accessories may be used, refer to items (A) to (C) below. A. Non Insulated system with metal channels — Install moisture barrier over the Gypsum Board Item 4 and Install Acry Metal Channels vertically at a horizontal spacing not greater than 24 inches OC., over the moisture barrier. Acry Metal Channels attached through the moisture barrier and the Gypsum Board to the Wood Studs using fasteners specified by the manufacturer and fasteners spaced max., 24 in. OC. Install Acrytec Panels on Acry Metal Channels using 1-1/4" long corrosion coated stainless steel screws spaced at a max spacing of 24 inches OC, along with manufacturer's approved adhesive (3M 540 or Tremco Vulcum 116). Adhesive to be applied in a zigzag pattern along every channel. Joint treatment in between panels shall be Tremco illmod 600 pre compressed polyurethane foam sealant.

pre compressed polyurethane foam sealant.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527

4P. Gypsum Board* — (As an alternate to Item 4) — 5/8 in. thick, two layers applied either horizontally or vertically. Inner layer attached to stude with 1-1/4 in. long Type W steel screws spaced 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. Outer layer attached to study over inner layer with 1-7/8 in. long Type W steel screws spaced 10 in. OC offset 5 in. from base layer with the last two screws 4 and 1 in. from the edges of the board. Vertical joints located over studs. Vertical and horizontal joints between inner and outer layers staggered. Outer layer joints covered with joint tape and compound, screwheads covered with joint compound. When used in widths other than 48 in., gypsum panels are to be installed horizontally.

CERTAINTEED GYPSUM INC — Type LGFC6A, Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX

4Q. Gypsum Board* — (As an alternate to Item 4. For use with Item 13) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board UL Classified for Fire Resistance (CKNX) eligible for use in Design Nos. U305 and L501 or G512. Two layers, applied either horizontally or vertically, and screwed to studs with 1-5/8 in. long Type W coarse thread steel screws at 8 in. OC at perimeter and in the field with the last two screws 4 and 3/4 in. from the edges of the board when applied as the base layer. For the face layer, screw length to be increased to 2-1/2 in. All joints in face layers staggered with joints in base layers. When used in widths other than 48 in., gypsum panels are to be installed horizontally. 4R. Gypsum Board* — As an Alternate to Item 4 — 5/8 in. thick applied either horizontally or vertically. Inner layers fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. Outer layers fastened to framing with 1-7/8 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum board to be installed horizontally. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side.

CERTAINTEED GYPSUM INC — Types EGRG, GlasRoc, GlasRoc-2, Type C, Type X-1, Easi-Lite Type X, SilentFX 4S. Gypsum Board* — (As an alternate to Item 4. For use with Item 13A) — 5/8 in. thick, two layers applied vertically. Inner layer attached to study with the 1-7/8 in. nails spaced 6 in. OC. Outer layer attached to stude over inner layer with the 2-3/8 in. long nails spaced 8 in. OC. Vertical joints located over stude. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side. AMERICAN GYPSUM CO — Types AGX-1

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1

CABOT MANUFACTURING ULC — "5/8 Type X"

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1

THAI GYPSUM PRODUCTS PCL — Type X

USG BORAL DRYWALL SFZ LLC — Types SCX

USG MEXICO S A DE C V — Type SCX

4T. Gypsum Board* — (As an alternate to Item 4. For use with Item 13B) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 4 above. Two layers applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. All joints in outer layers staggered with joints in inner layers. Inner layer attached to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field. Outer layer attached to studs over inner layer

with the 2-1/2 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC. 4U. Gypsum Board* — (As an alternate to Item 4. For use with Item 13C) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 4 above. Two layers applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. All joints in outer layers staggered with joints in inner layers. Inner layer attached to studs with 1-1/4 in. long Type W screws spaced 8 in. OC at perimeter and in the field. Outer layer attached to studs over inner layer with 1-7/8 in. long Type W

5. Molded Plastic* — Not Shown, Optional — Solid vinyl siding mechanically secured over the outer layer to framing members in accordance with manufacturer's

ALSIDE, DIV OF ASSOCIATED MATERIALS INC

GENTEK BUILDING PRODUCTS LTD

6. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:

A. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Wallboard attached to furring channels as described in Item 4.

B. Steel Framing Members* — Used to attach furring channels (Item 6a) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in.

PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75)

6A. Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below: A. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining

channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4. **B. Steel Framing Members*** — Used to attach furring channels (Item 6Aa) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.

STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

6B. Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:

6C. Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 6) — Resilient channels and Steel Framing Members as described below:

b. Steel Framing Members* — Used to attach resilient channels (Item 6Ca) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.

KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip 6D. Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 6) — Used as an alternate method to attach resilient channels to wall studs. A resilient sound isolation accessory shall be used at each attachment point of the resilient channels and spaced max 24 in. O.C. Channel ends butted and centered under the structural members and attached with one accessory at each end. Additional accessories used to hold resilient channels that support the gypsum board end joints. The accessory envelops the mounting edge of the resilient channel. The accessory and resilient channel are fastened to the structural members with the screws supplied with the accessory and per the

PAC INTERNATIONAL L L C — Type RC-1 Boost

6E Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:

ROCKWOOL — Type SAFEnSOUND, min. 1.8 pcf.

B. Insulated system with metal channels — Install moisture barrier over the Gypsum Board Item 4. Install galvanized Z girt channels specified by the manufacturer over the moisture barrier and the Gypsum Board Item 4. Z girt channels to be installed horizontally at a max. spacing of 24" OC. Z girt channels attached through the Gypsum Board and the moisture barrier to the wood studs with screws provided by the manufacturer at a max spacing of 24 inches OC. Install mineral wool insulation between the Z girts. Maximum thickness of mineral wool insulation not to exceed 6 in. As per manufacturer's instructions install Acry Metal Channels vertically over the Z girts at a max horizontal spacing of 24 in. OC. Acrytec Panels installed on Acry channel with 1-1/4" long corrosion coated stainless steel screws at a max spacing of 24 in. OC, along with manufacturers approved adhesive (3M 540 or Tremco Vulcum 116). Adhesive to be applied in a zigzag pattern along every channel. Joint treatment in between panels to be Tremco illmod 600

C. Non insulated wood strapping system — Install moisture barrier over the Gypsum Board Item 4 and Install 1" x 3" wood strapping vertically at a horizontal spacing not greater than 24 inches OC., over the moisture barrier. 1" x 3" wood strapping attached through the moisture barrier and the Gypsum Board to the Wood study using fasteners specified by the manufacturer and fasteners spaced max., 24 in. OC. Acrytec Panels to be installed on the 1" x 3" wood strapping using manufacturers approved stainless steel fasteners spaced at maximum 24 inches OC along with Tremco Vulcum 116 adhesive applied in a zigzag pattern along every wood strap. Joint treatment in between panels to be Tremco illmod 600 pre compressed polyurethane foam sealant.

D. Insulated Wood Strapping System — Install moisture barrier over the Gypsum Board Item 4. Install Extruded Polystyrene Insulation over moisture barrier and the Gypsum Board Item 4, max thickness of insulation not to exceed 4 inches. Install 1" x 3" wood strapping vertically at a horizontal spacing not greater than 24 inches OC. Wood strapping attached through the Insulation, the Gypsum Board and moisture barrier to the Wood Studs using fasteners specified by the manufacturer and fasteners spaced max. 24 in. OC. Acrytec Panels to be installed over the wood strapping using manufacturers approved stainless steel fasteners at a max spacing of 24 in. OC and Tremco Vulcum 116 adhesive applied in a zigzag pattern along every wood strap. Joint treatment in between panels to be Tremco illmod 600 pre compressed polyurethane foam sealant. ACRYTEC PANEL INDUSTRIES — Nominal 5/8 inch thick Acrytec Panel. 13. Foamed Plastic* — (Optional, Not Shown - For use with Item 4Q) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud

SES FOAM INC — NexsealTM 2.0 or NexsealTM 2.0 LE Spray Foam and Sucraseal Spray Foam. For use in Bearing and Non-Load Bearing Walls. 13A. Foamed Plastic* — (Optional, Not Shown - For use with Item 4S) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud GACO WESTERN L L C — Types GacoEZSpray F4500, GacoProFill FR6500R, Gaco 052N, GacoOnePass F1850, GacoOnePass Low GWP F1880, and Gaco WallFoam

One Zero, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, and Foamsulate HFO.

BASF CORP - Types Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US , Walltite® US-N, and Walltite HP+ 14. Foamed Plastic* — (Optional, Not Shown - For use over Gypsum Board, Item 4) - Polyisocyanurate foamed plastic boards, any thickness applied vertically with vertical joints located over studs. May be used with Molded Plastic, Item 5 or any exterior facing, as authorized by the Authority Having Jurisdiction and installed in accordance with the manufacturer's installation instructions HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — "Xci Class A", "Xci 286", "Xci Foil (Class A)", "Xci CG", "Xci Foil", "Xci

CG NH". "Xci Foil NH"

with the manufacturer's installation instructions. HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — "Xci NB", "Xci Ply"

13B. Foamed Plastic* — (Optional, Not Shown - For use with Item 4T) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud

CARLISLE SPRAY FOAM INSULATION — Types SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro

13C. Foamed Plastic* - (Optional, Not Shown - For use with Item 4U) - Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud

15. Building Units* — (Optional, Not Shown - For use over Gypsum Board, Item 4) Polyisocyanurate composite foamed plastic boards, any thickness, applied vertically with vertical joints located over studs. May be used with Molded Plastic, Item 5 or any exterior facing, as authorized by the Authority Having Jurisdiction and installed in accordance

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Art Form Architecture, Inc.					
Addition / Renovation Project © 2022 Art Form Architecture 603.431.9559					
Coventry Development					
2 Punchard Ave					
Andover, MA					
1/4"=1'-0" unless noted otherwise / Print @ 1:1 PDF created on: 9/27/2022, drawn by Rachel Jones	Issued PRE				

Align new foundation wall with existing foundation wall

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Wood Framing Notes:

- 1. All structural wood shall be identified by a grade mark or certificate of inspection by a recognized inspection agency.
- 2. Structural wood shall be Spruce-Pine-Fir (SPF) #2 or better.
- 3. When used, LVL or PSL indicate Laminated Veneer Lumber or Parallel Strand Lumber, respectively. Products used shall equal or exceed the strength properties for the size indicated as manufactured by TrusJoist.
- 4. When used, TJI indicates wood I-joists as manufactured by TrusJoist. Products of alternate manufacturers may be substituted provided they meet or exceed the strength properties for the member specified.
- 5. All floor joists shall have bridging installed at mid-span or at 8'-0" oc maximum.
- 6. Floor systems are designed for performance with subfloor glued and screwed.
- 7. Per code R502.6.1 Floor joists splicing over bearing walls allowed, shall lap a min 3" over walls and shall be nailed together with a minimum of (3) 10d face nails. Also permitted is a wood or metal splice with strength equal to or greater than that provided by the nailed lap.
- 8. Per code R802.3.2 Ceiling joists splicing over bearing walls is allowed, shall lap a min 3" or butted over bearing partitions or beams and toenailed to the bearing member. Where ceiling joists are used to provide resistance to rafter thrust, lapped joists shall be nailed together in accordance with Table R802.5.1(9), and butted joists shall be tied together in a manner to resist such thrust. Joists that do not resist thrust shall be permitted to be nailed together in accordance with Table R602.3(1).
- 9. Provide blocking in the floor at structural points. Blocking may be 2x's or solid, but must have grain of wood vertical.
- 10. All wood permanently exposed to the weather, in contact with concrete or in contact with the ground shall meet code requirements for wood in these environments.
- 11. Deck ledgers shall be securely attached to the structure and/ or independently supported. Deck lateral load connection required see IRC 2015 Section R507.2.4
- 12. Wherever beams are noted as Flush framed, install joist hangers at all joists, sized appropriately for the members being connected.
- 13. Support the lower end of roof beams via minimum 2" horizontal bearing on a post, ledger or via an appropriately sized and configured hanger.
- 14. The ends of each joist, beam or girder shall have not less than 1.5" of bearing on wood or metal and not less then 3" on masonry or concrete except where supported on a 1" x 4" ribbon strip and nailed to the adjacent stud or by the use of approved joist hangers.
- 15. Hangers, post caps, post bases, ties and other connectors shall be manufactured by Simpson Strong Tie. Selection shall be designed to carry the loading on these framing plans and connect the total width of the members shown, and shall be installed per manufacturer's instructions. Contact Art Form if additional information is needed.

Notes: Beam & Joist Sizing

- 1. Our beams sizes often differ from prescriptive code, because our designs are rarely the old style box colonial or cape with a center bearing wall upon which prescriptive code is based. We size our beams via calculations for this specific design, which may carry those loads separately via second floor beams and/or roof transfer beams. Beam or joist sizes, types and/or spacing may not be reduced or alternates substituted without our express permission.
- 2. Walls intended to be bearing are labeled as such. This information is provided to aid code officer in understanding the framing. It does not indicate permission to add loads to those walls, or any other walls.
- 3. Framing is sized for normal residential conditions. Contact Artform if additional loads are anticipated, including but not limited to waterbeds, large fish tanks, indoor hot tubs, multiple framed soffits or coffers.
- 4. In states where the designer is a licensed architect, (NH, MA, ME, CT & NY as of the date of issue) we are happy to stamp our drawings at no additional charge. In other states we are happy to provide calculations. Administration fees apply with provision of calculations. Code officer is encouraged to call with any questions about our methodology.

Built-up Beams: Unless otherwise noted, connect multiple 1 3/4" ply

beams as follows: 3 ply & up, fasteners are per side

<u>(2) 9 1/4" LVL:</u> Flush framed

 $_{\odot}~$ (2) rows 3 3/8" TrussLock @ 24" oc, or (2) rows SDS 1/4x3 1/2 @ 24" oc •Framed under (2) rows 10d nails @ 24" oc

<u>(2) 11 1/4" LVL:</u>

 Flush framed (2) rows 3 3/8" TrussLock @ 19.2" oc, or

○ (2) rows SDS 1/4x3 1/2 @ 19.2" oc Framed under (2) rows 10d nails @ 24" oc

(2) 16" LVL or greater: Flush framed

 $\circ~$ (3) rows 3 3/8" TrussLock @ 19.2" oc, or (3) rows SDS 1/4x3 1/2 @ 19.2" oc • Framed under (2) rows 10d nails @ 24" oc

<u>(3) 9 1/4" LVL:</u> Flush framed

○ (2) rows 3 3/8" TrussLock @ 19.2" oc, or ○ (2) rows SDS 1/4x3 1/2 @ 19.2" oc

• Framed under (2) rows 10d nails @ 24" oc

<u>(3) 11 1/4" LVL:</u> Flush framed

 $\circ~$ (2) rows 3 3/8" TrussLock @ 16" oc, or (2) rows SDS 1/4x3 1/2 @ 16" oc • Framed under (2) rows 10d nails @ 24" oc

(3) <u>14" LVL:</u> Flush framed

 $_{\odot}~$ (3) rows 3 3/8" TrussLock @ 16" oc, or ○ (3) rows SDS 1/4x3 1/2 @ 16" oc Framed under (2) rows 10d nails @ 24" oc

(3) 16" LVL or greater: Flush framed

 $\circ~$ (3) rows 3 3/8" TrussLock @ 16" oc, or (3) rows SDS 1/4x3 1/2 @ 16" oc • Framed under (2) rows 10d nails @ 24" oc

<u>(4) 9 1/4" LVL:</u>

Flush framed

 $_{\odot}\,$ (2) rows 5" TrussLock @ 16" oc, or ○ (2) rows SDS 1/4x6 @ 16" oc

• Framed under (2) rows 10d nails @ 24" oc

<u>(4) 11 1/4" LVL:</u>

 Flush framed $\circ~$ (2) rows 5" TrussLock @ 16" oc, or

 (2) rows SDS 1/4x6 @ 16" oc • Framed under (2) rows 10d nails @ 12" oc

(4) 16" LVL or greater:

Flush framed

 $\circ~$ (3) rows 5" TrussLock @ 16" oc, or (3) rows SDS 1/4x6 @ 16" oc • Framed under (2) rows 10d nails @ 12" oc

Beam Substitutions:

(2) 9 1/4" LVL may replace a double or triple 2x10 beam. No other substitutions are allowed. Conventional lumber beams MAY NOT be substituted for LVL beams by any "rule of thumb". Substitutions must be calculated by either Artform or a structural engineer. If calculated by a structural engineer, provide stamped plans and/or calculations

We specify LVL beams as built up members to allow framers to use existing stock. You may substitute single piece LVLs of equivalent overall size for built-up members, unless otherwise noted.

Built-up members MAY NOT replace single piece LVL's where specified.

Where a beam of 1 3/4" or less in width is specified as framed under, either brace at 48" or double member for lateral stability.

2:/Users/Rachel/Desktop/CD Add-Reno - 2 Punchard Ave - Coventry Development.layo

Coventry Development

2x12 Ridge

