









LEGACY @ HAW RIVER APAR TMENTS: V1

DeBoer & Gabriel Builders, Inc. Legacy River Trail Burlington, NC 27217

Plan Index

SHEET NUMBER

CS-1 A-0 thru A-7 S-1 thru S-4 P-1 thru P-6 M-1 thru M-5 E-1 thru E-4 FA-1

DESCRIPTION

Cover Sheet Architectural Plans Structural Plans Plumbing Plans Mechanical Plans Electrical Plans Fire Alarm Plan





	Legacy River Trail Burlington	n, NC 27217
FOR ALL COMMERCIAL PROJECTS (Except 1 and 2 Family Dwellings and Townhouses)		
Name of Project: Legacy @ Haw River Apartments Address: Legacy River Trail Burlington, NC 27217	ALLOWABLE HEIGHT Allowable Shown on Plans Code	SPECIAL APPROVALS
Proposed Use: Residential (R-2) Owner/Authorized Agent: Jason DeBoer (336) 516-5048 Owned By: Private Code Enforcement Jurisdiction: Alamance County Inspections	Building Height in Feet 60 47 Table 504.3 Building Height in Stories 3 3 Table 504.4	Special Approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DF
LEAD DESIGN PROFESSIONAL:		
DESIGNER FIRM NAME LICENSE# TELEPHONE# EMAIL Architectural MM Mason, AIA Martha M. Mason 7267 (336) 684-1021	FIRE PROTECTION REQUIREMENTS BUILDING ELEMENT Fire Rating Detail # Design # Sheet # Sheet #	SEE STRUCTURAL DRAWINGS
PlumbingHolleman Corp.Tim Holleman20172(336) 337-6334MechanicalHolleman Corp.Tim Holleman20172(336) 337-6334ElectricalHolleman Corp.Tim Holleman20172(336) 337-6334	Separation Req'd Provided and for Rated for Rated for Rated Distance (w/_* Sheet # Assembly Penetration Joints	STRUCTURAL DESIGN: DESIGN LOADS:
StructuralResid. Eng. SolutionsBrooke Carpenter23249(336) 380-5847SprinklerBy Sprinkler ContractorTim Holleman20172(336) 337-6334	Structural Frame, including columns,	Importance Factors: Snow: (Is) 0.8 (1.0) 1.1 1.2 Seismic: (Ie) (1.0) 1.25 1.5
Civil Retaining Walls (>5' High)	girders, & trusses	Live Loads: Roof: 20 psf Mezzanine: N/A
Other 2018 NC BUILDING CODE ■ New Building □ Addition □ Renovation □ 1st Time Interior Completion	Exterior	Floor: 100 psf (for Corridors), 40 Ground Snow Load: 15 psf
EXISTING: Prescriptive Repair Chaper 14 Alteration Level I II III Historic Property Change of Use Change of Use III III III	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Wind Loads: Ultimate Design Wind Speed: 120 mph (Exposure Category B (C) D
CONSTRUCTED: N/A CURRENT OCCUPANCY(S) (Ch.3): N/A RENOVATED: N/A PROPOSED OCCUPANCY(S) (Ch.3): R-2 RESK CATEGORY. (Table 1604.5): Current: N/A Proposed: II	Non-Bearing Walls & Partitions	SEISMIC DESIGN CATEGORY: A B C D
BASIC BUILDING DATA	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Provide the following Seismic Design Parameters: Risk Category (Table 1604.5) I II III IV
Construction Type: □ I-A □ III-A □ IV □ V-A □ I-B □ III-B □ III-B ■ V-B	Interior walls & partitions >10 0	Spectral Response Acceleration Ss <u>.13</u> %g <u>13%</u> S1 <u>.063</u> % Site Classification (ASCE-7) A B C D E F
Standpipes: No Yes Class I III Wet Dry Fire District: No Yes Flood Hazard Area: No Yes	Includ. supporting beams and joists: Image: Constraint of the second s	Data Source: ☐Field Test ■ Presumptive ☐Historical Data
Special Inspections Req: No Yes Gross Building Area:	Columns Supporting Floors N/A N/A Roof Construction Image: Column structure	Basic structural system (check one).
Floor Existing (Sq. Ft.) New (Sq. Ft.) Sub-Total 6th Floor 5th Floor	Roof Ceiling Assembly 1 1 1/A7 UL#P533 Columns Supporting Roof N/A N/A	Moment Frame Inverted Pendulum
4th Floor 3rd Floor 0 9836 9836 2nd Floor 0 9962	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Architectural, Mechanical, Components anchored?
Interface 0 0002 0002 Mezzanine	Corridor Separation 1 1 2/A7 UL#U356 Occupancy/Fire Barrier Separation N/A N/A N/A	LATERAL DESIGN CONTROL: Earthquake Wind
Total 0 29760 29760	Party/Firewall Separation N/A N/A N/A N/A Smoke Barrier Separation N/A N/A N/A	SOIL BEARING CAPACITIES: ☐ Field Test ■ Presumptive Bearing capacity 2000 psf Pile size, type, and capacity N/A
ALLOWABLE AREA Primary Occupancy:	Smoke Partition N/A N/A N/A Image: Smoke Partition Image:	
Assembly A-1 A-2 A-3 A-4 A-5 Business D	Incidental Use Separation N/A N/A N/A * Indicate section number permitting reduction Incidental Use Separation Incidental Use Separation	REFER TO ELECTRICAL PLANS BY OTHERS
Educational I Factory IF-1 Moderate IF-2 Low Hazardous IH-1 Detonate IH-2 Deflagrate IH-3 Combust IH-4 Health	л	REFER TO MECHANICAL PLANS BY OTHERS
Institutional $\square I - 1$ $\square I - 2$ $\square I - 3$ $\square I - 4$ Condition $\square I$ $\square 2$ $\square 3$ $\square 4$ $\square 5$ Mercantile \square \square \square \square \square	PERCENTAGE OF WALL OPENING CALCULATIONS Fire Separation Distance Degree of Openings Allowable Area Actual Shown on Plans	ENERGY SUMMARY
Residential □R-1 ■R-2 □R-3 □R-4 Storage □S-1 Moderate □S-2 Low □High-Piled □Park. Garage □Open □Enclosed □Repair Garage	(Feet) From Property Lines Protection (Table 705.8) % 30' OR GREATER UP.S NO LIMIT N/A	ENERGY REQUIREMENTS:
Utility and Miscellaneous L		energy code shall also be provided. Each Designer shall furnish the required information for the plan data sheet. If performance method, state the annual e
Assembly DA-1 DA-2 DA-3 DA-4 DA-5 Business D		Existing building envelope complies with code:
Educational □ Factory □F-1 Moderate □F-2 Low Hazardous □H-1 Detonate □H-2 Deflagrate □H-3 Combust □H-4 Health □H-5 HP	Exit Signs: INO Yes Fire Alarm: NO Yes	Exempt Building: No Yes Provide code or statutory reference: Climate Zone: 3A 4A 5A
Institutional $\square -1$ $\square -2$ $\square -3$ $\square -4$ Condition $\square 1$ $\square 2$ $\square 3$ $\square 4$ $\square 5$ Mercantile \square	Carbon Monoxide Detection:	Method of Compliance:
R-Sidential R-1 R-2 R-3 R-4 Storage Storage Storage High-Piled Park. Garage Open Enclosed Repair Garage	LIFE SAFETY PLAN REQUIREMENTS: Life Safety Plan Sheet #: <u>A-3</u>	Energy Code - Performance Energy Code - Prescriptive ASHRAE 90.1 - Performance
	 Fire and/or smoke rated wall locations (Chapter 7) Assumed and real property line locations (if not on the site plan) 	 ASHRAE 90.1 - Prescriptive Other - Performance <u>COMcheck</u>
☐ Furnace room where any piece of equipment is over 400,000 Btu per hour input ☐ Rooms with boilers where the largest piece of equipment is over 15 psi and 10 horsepower	 Exterior wall opening area with respect to distance to assumed property lines (705.8) Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2) Occupant loads for each area 	
□ Refrigerant machine room □ Hydrogen cutoff rooms, not classified as Group H □ Incinerator rooms	 Exit access travel distances (1017) Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1)) Dead end lengths (1020.4) 	COMcheck Software Version 4.1.5.1
□ Paint shops, not classified as Group H, located in occupancies other than Group F □ Laboratories and vocational shops, not classified as Group H. located in a Group E or I-2 occupancy □ Laundry rooms over 100 square feet	 Clear exit widths for each exit door Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3) Actual occupant load for each exit door 	Envelope Compliance Certific
Group I-3 cells equipped with padded surfaces Group I-2 waste and linen collection rooms Group I-2 waste and linen collection rooms over 100 square feet	 A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation Location of doors with panic hardware (1010.1.10) 	Project Information
Stationary storage battery systems having a liquid electrolyte capacity of more than 50 gallons, or a lithium-ion capacity of 1,000 pounds used for facility standby power, emergency power or uninterrupted power supplies Rooms containing fire pumps	Location of doors with delayed egress locks and the amount of delay (1010.1.9.7) Location of doors with electromagnetic egress locks (1010.1.9.9) Location of doors equipped with hold-open devices	Project Title: Legacy @ Haw River Apartments Location: Burlington, North Carolina Climate Zone: 4a
Group I-2 scorage rooms over roo square reet Group I-2 commercial kitchens Group I-2 laundries equal to or less than 100 square feet Group I-2 laundries er concept that contain fuel fired booting equipment	 Location of emergency escape windows (1050) The square footage of each smoke compartment for Occupancy Classification I-2 (407.5) Location of each smoke compartment for Occupancy Classification I-2 (407.5) 	Project Type: New Construction Vertical Glazing / Wall Area: 11%
Special Uses: 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430		Construction Site: Owner/Agent: Designer Legacy River Trail Jason DeBoer Martha Burlington, NC 27217 DeBoer & Gabriel Builders 336-68
Special Provisions: 510.2 510.3 510.4 510.5 510.6 510.7 510.8 510.9 Mixed Occupancy: ■ No □ Yes Separation N/A Hr. Exception	ACCESSIBLE DWELLING UNITS: Section: 1107	Building Area Floor Area 1-Multifamily : Residential 29760
☐ Incidental Use Separation (509.2) This separation is not exempt as a Non-Separated Use (see exceptions).	Total Accessible Accessible Type A Type A Type B Type B Total Units Units Units Units Units Units Units Accessible Units Required Provided Required Provided Required Provided Provided	Envelope Assemblies Assembly Gross Area Cavity C
Non-Separated Use (508.3) The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most	180 51 60 9 18 42 42 60	Roof 1: Attic Roof with Wood Joists, [Bldg. Use 1 - Multifamily] 9826 38.0 0
restrictive type of construction, so determined, shall apply to the entire building.	ACCESSIBLE PARKING:	Window 1: Vinyl/Fiberglass Frame, Perf. Type: Energy code default, 1375
For each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.	Lot or Total # of Parking Spaces # of Accessible Spaces Provided Total # Accessible Parking Area Required Provided Required Required Required Spaces W/ Spaces Provided	Door 1: Insulated Metal, Swinging, [Bldg. Use 1 - Multifamily] 600 Door 2: Glass (> 50% glazing):Nonmetal Frame, Non-Entrance Door, 360 Perf. Type: Energy code default, Double Pane with Low-E, Tinted , SHGC 0.42, [Bldg. Use 1 - Multifamily]
$\frac{Actual Area of Occupancy A + Actual Area of Occupancy B}{Allowable Area of Occupancy A + Allowable Area of Occupancy B} \leq 1.00$	Access Aisle Aisle	Door 3: Glass (> 50% glazing):Nonmetal Frame, Non-Entrance Door, 420 Perf. Type: Energy code default, Double Pane with Low-E, Tinted , SHGC 0.42, [Bldg. Use 1 - Multifamily] Floor 1: Slab-On-Grade:Unheated, Vertical 2 ft., [Bldg. Use 1 - 741 5,
(A)(B)(C)(D)Story No.Desc.Bldg AreaTable 506.2Area ForAllowable Area Per Story	Total	Multifamily] (b) (a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements. (b) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.
and UsePer Story (Actual)AreaFrontage Incr.or Unlimited1 & 2R-2996270005250122500 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Envelope PASSES: Design 0.1% better than code Envelope Compliance Statement
<u>3 R-2 9836 7000 5250 12250</u>	PLUMBING FIXTURE REQUIREMENTS	Compliance Statement: The proposed envelope design represented in this document is consister specifications, and other calculations submitted with this permit application. The proposed enver designed to meet the 90.1 (2010) Standard requirements in COM <i>check</i> Version 4.1.5.1 and to com mandatory requirements listed in the Inspection Checklist.
 Frontage area increases from Section 506.3 are computed thus: a. Perimeter which fronts a public way or open space having 20 feet minimum width = <u>466</u> (F) b. Total Building Perimeter = <u>466</u> (P) 	USE WATERCLOSETS URINALS LAVATORIES SHOWERS/ DRINKING MALE FEMALE UNISEX MALE FEMALE UNISEX REG ACC	MARTHA M MASON ARCHITECT REALAN, Mason Name - Title Signature
c. Ratio (F/P) = 1 (F/P) d. W = Minimum width of public way = 30 (W) e. Percent of frontage increase If = $100 [F/P - 0.25] \times W/30 = 75$ (%)		
 2 Unlimited area applicable under conditions of Section 507. 3 Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2). 4 The maximum area of open parking garages must comply with Table 406.5.4. 	$ \begin{array}{ c c c c c } \hline NEW & \hline 1 / UNIT & \hline 0 & \hline 1 / UNIT & \hline 1 & \hline N/A $	
5 Frontage increase is based on the unsprinklered area value in Table 506.2.		

Proposed Apartments for: 1/1

Legacy River 1	Frail	Burlington,	NC	27217

		TO LEGAL ACTION. ALL DIMENSIONS, SPECS, AND DETAILS ARE TO BE VERIFIED BY THE CONTRACTOR/OWNER PRIOR TO STARTING CONSTRUCTION. FOX DESIGN, LLC ASSUMES NO LIABILITY ASSOCIATED WITH THESE DRAWINGS.
		1LC 1LC 19-4940 Allc.com
HS, etc., describe below)	INDEX OF DRAWINGS:	4 (336)44
sf (for living spaces) SCE-7) g <u>6.3</u> ent Frame R/C or Special Steel	ARCHITECTURAL: CS-1 COVER SHEET A-0 BUILDING CODE SUMMARY A-0.1 FIRE RATED ASSEMBLIES A-1 1st FLOOR PLAN A-2 2nd FLOOR PLAN A-3 3rd FLOOR PLAN & TYPICAL LIFE SAFETY PLAN A-4 FRONT & REAR EXTERIOR ELEVATIONS A-5 LEFT & RIGHT EXTERIOR ELEVATIONS, STAIR DETAILS, CABINET ELEVATIONS A-6 ROOF PLAN, CABINET ELEVATIONS A-7 TYPICAL WALL SECTIONS STRUCTURAL: S S-1 SLAB/FOUNDATION PLAN, SLAB DETAILS S-2 2nd & 3rd FLOOR STRUCTURAL PLAN, DETAILS S-3 CEILING STRUCTURAL PLAN S-4 ROOF FRAMING PLAN, DETAIL PLUMBING: P-1 GENERAL NOTES, LEGENDS, SCHEDULES, & DETAILS P-2 1st FLOOR- PLUMBING, WATER DISTRIBUTION, WASTE & VENT P-3 2nd FLOOR- PLUMBING, WATER DISTRIBUTION,	P.O. Box 628 Elon, NC 27244 www.foxdesignllc.com grant
]Dynamic	P-4 3rd FLOOR- PLUMBING, WATER DISTRIBUTION, WASTE & VENT	
	P-5 SANITARY WASTE & VENT RISER DIAGRAMS P-6 UL PENETRATION DETAILS	
uired to meet the portions of the project	MECHANICAL: M-1 NOTES, COMPLIANCE CERTIFICATE, SCHEDULES, LEGEND, & ABBREVIATIONS M-2 1st FLOOR - MECHANICAL PLAN M-3 2nd FLOOR - MECHANICAL PLAN M-4 3rd FLOOR - MECHANICAL PLAN M-5 MECHANICAL DETAILS ELECTRICAL: E-1 1st, 2nd, & 3rd FLOOR LIGHTING PLANS E-2 ELECTRICAL ENLARGED UNIT PLANS	140 - 2207 - 2 140 - 2007 - 2
r of this section is not applicable)	E-3 ELECTRICAL PANEL SCHEDULES E-4 ELECTRICAL POWER RISER DIAGRAM	ANGTON MININ
ate		Drawn By: JTB Checked By: GWF Date: 4/12/23 File: D&G Legacy Haw River V1
contractor: 1 Mason, AIA -1021 -		sions: Remarks
Proposed Budget U- Factor alue U-Factor 0.027 0.027 0.069 0.064		Revis Date
0.600 0.400 0.350 0.700 0.600 0.400 0.600 0.400 0.580 0.540		Project: Legacy @ Haw River Version 1 Burlington, NC DeBoer & Gabriel Builders, Inc 6 Apt Buildings
nt with the building plans, ope systems have been mply with any applicable		1 Clubhouse
<u>4+12+2023</u> Date		N.T.S.
		Sheet No:

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Design No. L528

Unrestrained Assembly Rating - 1 Hr. Finish Rating - 22 Min.



Flooring System The flooring system shall consist of one of the following: System No. 1 Subflooring Min 23/32 in. thick T & G wood structural panels, min grade "Underlayment" or 'Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with end joints staggered 4 ft. Panels secured to trusses with construction adhesive and No. 6d inged shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails. System No. 2

Subflooring Min 23/32 in. thick T & G wood structural panels, min grade "Underlayment" or Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with end joints staggered 4 ft. Panels secured to trusses with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails Vapor Barrier (Optional) - Commercial asphalt saturated felt, 0.030 in. thick.

Vapor Barrier (Optional) - Nom 0.010 in. thick commercial rosin-sized building pape Finish Flooring Min 3/4 in. thickness of lightweight insulating concrete with Perlite Aggregate* or ermiculite Aggregate* , or gypsum concrete. See Perlite Aggregate (CFFX) and Vermiculite Aggregate (CJZZ) categories for names of

Subflooring Min 23/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with joints staggered

apor Barrier (Optional) - Commercial asphalt saturated felt, 0.030 in. thick. Floor Mat Materials* (Optional) Nom 6 mm thick floor mat material adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of floor opping mixture. When floor mat material is used, min thickness of floor topping mixture is 1 in. HACKER INDUSTRIES INC Type Hacker Sound-Mat. Alternate Floor Mat Materials* (Optional) Floor mat material nom 10 mm thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the

ent of a min 1-1/2 in. of floor-topping mi HACKER INDUSTRIES INC Type Hacker Sound-Mat II. Alternate Floor Mat Materials* (Optional) Floor mat material nom 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 in. HACKER INDUSTRIES INC Type Quiet Qurl 55/025 Alternate Floor Mat Materials* (Optional) Floor mat material nom 3/8 in. thick loose laid over

the subfloor. Floor topping thickness shall be a min of 1-1/2 in. HACKER INDUSTRIES INC Type Quiet Qurl 60/040 Alternate Floor Mat Materials* (Optional) Floor mat material nom 3/4 in thick loose laid over the abfloor. Floor topping thickness shall be a min of 1-1/2 in.

HACKER INDUSTRIES INC Type Quiet Qurl 65/075 Metal Lath (Optional) For use with 3/8 in. or 10 mm floor mat materials, 3/8 in. expanded steel liamond mesh, 3.4 lbs/sq yd placed over the floor mat material. Hacker Floor Primer to be applied prior to the placement of the metal lath. When metal lath is used, floor topping thickness a nom -1/4 in. over the floor mat. Finish Flooring - Floor Topping Mixture* Min 3/4 in. thickness of floor topping mixture having a

min compressive strength of 1100 psi. Mixture shall consist of 6.8 gal of water to 80 lbs of floor ing mixture to 1.9 cu ft of sand. HACKER INDUSTRIES INC Firm-Fill Gypsum Concrete, Firm-Fill 2010, Firm-Fill 3310, Firmill 4010, Firm-Fill High Strength, Gyp-Span Radiant System No. 4

Subflooring Min 23/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face rain of plywood or strength axis of panels to be perpendicular to the trusses with joints staggered. Vapor Barrier (Optional) Commercial asphalt saturated felt, 0.030 in. thick. loor Mat Materials* (Optional) - Min 3/8 in. to max 3/4 in. thick floor mat material loose laid over he subfloor. Floor topping thickness shall be as specified under Floor Topping Mixture. Alternate Floor Mat Materials* (Optional) - Nom 1/4 in, thick floor mat material loose laid over the

subfloor. Floor topping thickness shall be as specified under Floor Topping Mixture. JNITED STATES GYPSUM CO Levelrock Brand Floor Underlayment SRM-25 Alternate Floor Mat Materials* (Optional) - Nom 3/8 in. thick floor mat material loose laid over the abfloor. Floor topping thickness shall be as specified under Floor Topping Mixture. GRASSWORX L L C Type SC50

Alternate Floor Mat Material* (Optional) Floor mat material nominal 3/8 in. thick loose laid over he subfloor. Floor topping shall be a min 3/4 in. thick. OWENS CORNING Type QuietZone Acoustical Floor Mat Finish Flooring - Floor Topping Mixture* Min 3/4 in. thickness of floor topping mixture having a nin compressive strength of 1200 psi. Refer to manufacturer's instructions accompanying the

naterial for specific mix design. INITED STATES GYPSUM CO. Type LRK System No. 5

Subflooring Min 23/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with joints staggered apor Barrier-(Optional) Commercial asphalt saturated felt, 0.030 in. thick. Finish Flooring - Floor Topping Mixture* Min 1-1/2 in. thickness of floor topping mixture having a min compressive strength of 1000 psi and a cast density of 100 plus or minus 5 pcf. Foam ncentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture shall consist of 1.4 cu feet of preformed foam concentrate to 94 lbs Type I Portland cement, 300 lbs of sand with 5-1/2 gal of water ELASTIZELL CORP OF AMERICA Type FF

System No. 6 Subflooring Min 23/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with joints staggered. por Barrier-(Optional) Commercial asphalt saturated felt, 0.030 in. thick. Finish Flooring - Floor Topping Mixture* Min 1-1/2 in. thickness of floor topping mixture having a min compressive strength of 1000 psi and a cast density of 100 plus or minus 5 pcf. Foam oncentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture shall consist of 1.2 cu feet of preformed foam concentrate to 94 lbs Type I Portland cement, 300 lbs of sand with 5-1/2 gal of water. CELLULAR CONCRETE L L C Floor Topping Mixture

Subflooring Min 23/32 in thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with joints staggered Vapor Barrier (Optional) - Commercial asphalt saturated felt, 0.030 in. thick. Finish Flooring - Floor Topping Mixture* Min 1 in. thickness of floor topping mixture having a min compressive strength of 1000 psi and a cast density of 100 plus or minus 5 pcf. Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture hall consist of 1.4 cu feet of preformed foam concentrate to 94 lbs Type I Portland cement, 62.5 lbs of Pea Gravel, 312.5 lbs of sand with 5-1/2 gal of water. LITE-CRETE INC Type I

System No. 8 Subflooring Min 23/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with joints staggered. Vapor Barrier (Optional) Commercial asphalt saturated felt. 0.030 in. thick. Floor Mat Materials* (Optional) - Nom 1/4 in. thick floor mat material loose laid over the subfloor. Maxxon Floor Primer to be applied to the surface of the mat prior to the floor topping placement. When floor mat material is used, min thickness of floor topping thickness is 1 in. Floor topping

hickness a min 3/4 in. over Acousti-Mat I floor mat. MAXXON CORP Type Acousti-Mat I, Acousti-Mat II, Acousti-Mat II HP. Alternate Floor Mat Materials* - (Optional) - Nom 0.8 in. thick floor mat material loose laid over the subfloor with Crack Suppression Mat (CSM) loose laid over the floor mat material. Floor topping thickness shall be min 1-1/2 in. MAXXON CORP Type Acousti-Mat 3, Acousti-Mat 3 HP, Crack Suppression Mat (CSM)

Metal Lath (Alternate to Crack Suppression Mat (CSM)) - 3/8 in. expanded galvanized steel liamond mesh, 3.4 lbs/sq yd loose laid over the floor mat material. Floor topping thickness shall be min 1-1/2 in. Alternate Floor Mat Materials* - (Optional) Nom 0.4 in. thick floor mat material loose laid over the subfloor. Maxxon Floor Primer to be applied to the surface of the mat prior to the floor topping placement. Floor topping thickness shall be min 1-1/2 in.

MAXXON CORP Type Enkasonic 9110, Enkasonic 9110 HP. Alternate Floor Mat Materials* - (Optional) Nom 0.2 in thick floor mat material loose laid over he subfloor. Maxxon Floor Primer may be applied to the surface of the mat prior to the floor opping placement. Floor topping thickness shall be as specified under Floor Topping Mixture.

MAXXON CORP Type Acousti-Mat LP-R Metal Lath (Optional) For use with floor mat materials, 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq vd or Maxxon Corp. UL Classified Crack Suppression Mat (CSM) loose aid over the floor mat material. Floor topping thickness shall be min 1 in.

MAXXON CORP Type Crack Suppression Mat (CSM) Finish Flooring - Floor Topping Mixture* Min 3/4 in. thickness of floor topping mixture having a nin compressive strength of 1000 psi. Mixture shall consist of 3 to 7 gal of water to 80 lbs of floor topping mixture to 1.0 to 2.1 cu ft of sand.

MAXXON CORP Types D-C, GC, GC2000, L-R, T-F, CT System No. 9

Subflooring Min 23/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with joints staggered. Vapor Barrier (Optional) - Commercial asphalt saturated felt, 0.030 in. thick. Finish Flooring - Floor Topping Mixture* Min 3/4 in. thickness of floor topping mixture having min compressive strength of 1000 psi. Mixture shall consist of 5 to 8 gal of water to 80 lbs of floor topping mixture to 2.1 cu ft of sand ULTRA QUIET FLOORS UQF-A, UQF-Super Blend, UOF-Plus 200 System No. 10

Subflooring Min 23/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with joints staggered. or Barrier (Optional) - Commercial asphalt saturated felt, 0.030 in. thick. Floor Mat Materials* (Optional) - Nom 1/4 in thick floor mat material loose laid over the subfloor Maxxon Floor Primer to be applied to the surface of the mat prior to the floor topping placement. When floor mat material is used, min thickness of floor topping mixture is 1 in. Floor topping thickness a min 3/4 in. over Acousti-Mat I floor mat. MAXXON CORP Type Acousti-Mat I, Acousti-Mat II, Acousti-Mat II HP.

Alternate Floor Mat Materials* - (Optional) - Nom 0.8 in. thick floor mat material loose laid over the subfloor with Crack Suppression Mat (CSM) loose laid over the floor mat material. Floor opping thickness shall be min 1-1/2 in. MAXXON CORP Type Acousti-Mat 3, Acousti-Mat 3 HP, Crack Suppression Mat (CSM) Metal Lath (Alternate to Crack Suppression Mat (CSM) - 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd loose laid over the floor mat material. Floor topping thickness shall be

min 1-1/2 in Alternate Floor Mat Materials* - (Optional) Nom 0.4 in, thick floor mat material loose laid over the subfloor. Maxxon Floor Primer to be applied to the surface of the mat prior to the floor topping placement. Floor topping thickness shall be min 1-1/2 in. MAXXON CORP Type Enkasonic 9110, Enkasonic 9110 HP.

ernate Floor Mat Materials* - (Optional) Nom 0.2 in. thick floor mat material loose laid over the subfloor. Maxxon Floor Primer may be applied to the surface of the mat prior to the floor opping placement. Floor topping thickness shall be as specified under Floor Topping Mixture. MAXXON CORP Type Acousti-Mat LP-R Metal Lath (Optional) For use with floor mat materials, 3/8 in. expanded galvanized steel

diamond mesh, 3.4 lbs/sq yd or Maxxon Corp. UL Classified Crack Suppression Mat (CSM) loose laid over the floor mat material. Floor topping thickness shall be min 1 in. MAXXON CORP Type Crack Suppression Mat (CSM) Finish Flooring - Floor Topping Mixture* Min 3/4 in. thickness of floor topping mixture having a

min compressive strength of 1200 psi. Mixture shall consist of 4 to 7 gal of water mixed with 80 lbs of floor topping mixture and 1.4 to 1.9 cu ft of sand. RAPID FLOOR SYSTEMS Types RF, RFP, RFU, RFR, Ortecrete System No. 11

Subflooring Min 1 by 6 in. T & G lumber fastened diagonally to trusses, or min 15/32 in. thick plywood or min 7/16 in. thick oriented strand board (OSB) wood structural panels, min grade "C-D' or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered. Finish Floor - Mineral and Fiber Board* Min 1/2 in. thick, supplied in sizes ranging from 3 ft by 4 ft to 8 ft by 12 ft. All joints to be staggered a min of 12 in. with adjacent sub-floor joints. HOMASOTE CO Type 440-32 Mineral and Fiber Board

System No. 12 Subflooring Min 23/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with joints staggered. Vapor Barrier (Optional) - Commercial asphalt saturated felt, 0.030 in. thick. bor Mat Materials* (Optional) - Min 3/8 in. to max 3/4 in. thick floor mat material loose laid over the subfloor. Floor topping thickness shall be as specified under Floor Topping Mixture. UNITED STATES GYPSUM CO Levelrock Brand Sound Reduction Board Alternate Floor Mat Materials* (Optional) - Nom 1/4 in. thick floor mat material loose laid over the subfloor. Floor topping thickness shall be as specified under Floor Topping Mixture.

ITED STATES GYPSUM CO Levelrock Brand Floor Underlayment SRM-25 Alternate Floor Mat Materials* (Optional) - Nom 3/8 in. thick floor mat material loose laid over the subfloor. Floor topping thickness shall be as specified under Floor Topping Mixture. GRASSWORX L L C Type SC50

Finish Flooring - Floor Topping Mixture* Min 1/2 in. thickness of floor topping mixture having a min compressive strength of 3000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design NITED STATES GYPSUM CO Type HSLRK System No. 13

Subflooring Min 23/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with joints staggered. Vapor Barrier (Optional) - Commercial asphalt saturated felt, 0.030 in. thick. inish Flooring - Floor Topping Mixture* Min 3/4 in. thickness of floor topping having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design. ALLIED CUSTOM GYPSUM PLASTERWORKS L.L.

C Accu-Crete, AccuRadiant, AccuLevel G40 and AccuLevel SD30. lternate Floor Mat Material* (Optional) Floor mat material nominal 2 9.5 mm thick loose laid over the subfloor. Floor topping shall be a min of 3/4 in. LLIED CUSTOM GYPSUM PLASTERWORKS L L C. Type AccuOuiet P80, Type AccuOuiet C40, AccuOuiet D13, Type AccuOuiet RSM 20, Type

AccuQuiet RSM 32, Type AccuQuiet RSM 48, Type AccuQuiet RSM 64, Type AccuQuiet RSM 20, and Type AccuQuiet D-18. System No. 14

Subflooring Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered. apor Barrier (Optional) - Commercial asphalt saturated felt, 0.030 in. thick. Vapor Barrier (Optional) - Nom 0.010 in. thick commercial rosin-sized building paper. Finish Flooring* Min 3/4 in, thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCOX) category for names f Classified Companies.

Floor Mat Materials* (Optional) - Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in. KEENE BUILDING PRODUCTS CO INC Type Quiet Qurl 55/025 and Quiet Qurl 55/025 N Alternate Floor Mat Materials* (Optional) - Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in. KEENE BUILDING PRODUCTS CO INC Type Quiet Qurl 60/040 and Quiet Qurl 60/040 N

Alternate Floor Mat Materials* (Optional) - Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in. KEENE BUILDING PRODUCTS CO INC Type Quiet Qurl 65/075, Quiet Qurl 65/075 N Alternate Floor Mat Materials* (Optional) - Floor mat material Nom. 1/8 in. thick loose laid over subfloor. Floor topping thickness shall be a minimum of 3/4 in. KEENE BUILDING PRODUCTS CO INC Type Quiet Qurl 52/013 and Quiet Qurl 52/013 N Alternate Floor Mat Materials* (Optional) - Floor mat material Nom. 1/4 in. entangled net core

with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in. KEENE BUILDING PRODUCTS CO INC Quiet Qurl 55/025 MT and Quiet Qurl 55/025 N MT System No. 15 ibflooring Min 23/32 in. thick T&G wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to the trusses

with end joints staggered 4 ft. Panels secured to trusses with construction adhesive and No. 6d inged shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails. ypsum Board* One layer of nom 5/8 in. thick, 4 ft wide gypsum board, installed with long dimension perpendicular to joists. Gypsum board secured with 1 in, long No, 6 Type W bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. The joints of the gypsum board are to be staggered a minimum of 12 inches from the joints of the subfloor. GEORGIA-PACIFIC GYPSUM L L C Type DS Floor Mat Materials* (As an alternate to the single layer gypsum board) - Floor mat material loose

laid over the subfloor. MAXXON CORP Type Acousti-Mat I, Acousti-Mat II, Acousti-Mat II HP, Acousti-Mat 3, Acousti-Mat 3 HP, Enkasonic 9110, Enkasonic 9110 HP, Acousti-Mat LP-R. Gypsum Board* (For use when floor mat is used) Two layers of nom 5/8 in. thick, 4 ft wide

sum board, installed with long dimension perpendicular to joists on top of the floor mat material. Gypsum board secured to each other with 1 in. long No. 6 Type G bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. The joints of the gypsum board are to be staggered a minimum of 12 inches in between layers and from the joints of the GEORGIA-PACIFIC GYPSUM L L C Type DS

Trusses Parallel chord trusses, spaced a max 24 in. OC, fabricated from nom 2 by 4 in. lumber with lumber oriented vertically or horizontally. Min truss depth is 12 in. Truss members secured together with min No. 20 MSG galv steel truss plates. Plates have 5/16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch), forming a split-tooth-type plate. Each tooth has a chisel point on its outside edge. hese points are diagonally opposite each other for each pair. The top half of each tooth has a twist for stiffness. The pairs are repeated on approx 7/8 in. centers with four rows of teeth per in. of plate

Furring Channels Furring channels, 7/8 in. deep by 2-9/16 in. or 2-11/16 in. or 2-23/32 in.

wide at the base and 1-7/16 in. wide at the face, formed from No. 25 ga galv steel, spaced 24 in. OC perpendicular to trusses. Channels secured to trusses with double strand of No. 18 SWG galv steel vire spaced 48 in. OC. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. Two furring channels used at end joints of gypsum board (Item 4), each extending a min of 6 in. beyond both side edges of the board 3A. Resilient Channels (Not Shown) - As an alternate to Item 3, resilient channel formed from No. 26 MSG galv steel, spaced 16 in. OC perpendicular to trusses. Channels secured to each truss with 1-1/4 in. long No. 6 Type S bugle head steel screw. Channels overlapped at splices 4 in. Two resilient channels used at end joints of gypsum board (Item 4), each extending a min of 6 in. beyond

both side edges of the board.

channels to trusses (Item 2). Clips spaced 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to the bottom chord of alternating trusses with No. 8 x 2-1/2 in. coarse drywall screw through the center rommet. RSIC-V and RSIC-V (2.75) clips secured to the bottom chord of alternating trusses with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75)

overlapped as described in Item 3. As an alternate, ends of adjoining channels may be overlapped 6 in, and secured together with two min 7/16 in, long No. 6 self-tapping framing screws, at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 4. When Fiber Sprayed (Item 6) is used, furring channel spacing reduced to 16 in. OC and two layers of nom 5/8 h. thick, 4 ft wide gypsum board shall be installed as described in Item 4 PAC INTERNATIONAL INC Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75), Steel Framing Members* (Optional, Not Shown) - Used as an alternate method to attach furring channels to trusses. Clips spaced 48 in. OC., and secured to the bottom chord to alternatin trusses 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. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 4. Two layers of gypsum board required as described in Item 4. Not evaluated for use with Item 6. When Item 3C is used and Batts and Blankets* are added per Section III Item 18 Blanket nsulation in the General Information of this Directory (BXUV), clips spaced 48 in. OC, furring channels spaced 16 in. OC max, 3-1/2 in. max. Batts and Blankets* secured to plywood subfloor

ith staples spaced 12 in. OC or to the trusses with 0.090 in. diam galv steel wires spaced 12 in. OC, and two layers of gypsum board required as described in Item 4A. When the Batts and Blankets* are draped over the furring channel/gypsum panel ceiling membrane, the clip spacing shall be reduced to 24 in. OC and secured to consecutive trusses, the furring channel spacing shall be reduced to 12 in. OC, and two layers of gypsum board required as described in Item 4A. KINETICS NOISE CONTROL INC Type Isomax D. Steel Framing Members* (Optional, Not Shown) - Used as an alternate method to attach min. 1/2 in. deep resilient channels (Item 3A) to trusses (Item 2). Resilient channels are friction fitted into clips, and then clips are secured to the bottom chord of each truss with a 1-3/4 in. long

flange. Adjoining resilient channels are overlapped 4 in. under trusses. The clip flange is opened slightly to accommodate the two overlapped channels. Additional clips required to hold resilient nnel that supports the gypsum board butt joints, as described in Item 4. KEENE BUILDING PRODUCTS CO INC Type RC Assurance. Steel Framing Members* (Optional, Not Shown) - Used as an alternate method to attach furring channels to trusses. Clips spaced 48 in. OC. and secured to the bottom chord to alternating trusses with one No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. Additional clips required to

hold furring channel that supports the gypsum board butt joints, as described in Item 4. Not evaluated for use with Item 6. PLITEQ INC Type Genie Clip Resilient Channels Resilient channels, formed from No. 25 MSG galv steel and shaped as shown, spaced 12 in. OC perpendicular to joist. Channels overlapped 4 in. at splices and secured to each joist with 1-1/4 in. Type S screws. Min end clearance of channels to wall to be 1/2 in. dditional resilient channels positioned so as to coincide with end joints of gypsum board (Item

Gypsum Board* One layer of nom 5/8 in. thick, 4 ft wide gypsum board, installed with lon sion perpendicular to furring or resilient channels. Gypsum board secured with 1 in. long No 6 Type S bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. End joints secured to both resilient channels as shown in the end joint detail. When Steel Framing Members (Item 3B) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimension perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long No. 6 Type S bugle head screws spaced 12 in. OC in the field of the ard. Gypsum board butt joints shall be staggered 2 ft within the assembly, and shall occur between the main furring channels. At the gypsum board butt joints, each end of each gypsum boa

6 in. on each end. The two furring channels at each butt joint shall be spaced approximately 3-1/2 in. OC, and be attached to the bottom chord of the truss with one RSIC-1 clip at each end of the channel. Screw spacing along the gypsum board butt joint shall be 8 in. OC. When both Steel ming Members (Item 3B) and Fiber, Sprayed (Item 6) are used, furring channel spacing reduct to 16 in. OC and two layers of nom 5/8 in. thick, 4 ft wide gypsum board are installed with long nension perpendicular to furring channels. Base layer secured to furring channels with nom 1 in long No. 6 Type S bugle head screws spaced 12 in. OC in the field of the board. Gypsum board butt joints shall be staggered 2 ft within the assembly, and shall occur between the main furring channels. At the gypsum board butt joints, each end of each gypsum board shall be supported by a

single length of furring channel equal to the width of the gypsum board plus 6 in. on each end. The two furring channels at each butt joint shall be spaced approximately 3-1/2 in, OC, and be attached to the bottom chord of the truss with one RSIC-1 clip at each end of the channel. Screw spacing along the gypsum board butt joint shall be 8 in, OC. Outer layer secured to furring channels using 1-5/8 in. long No. 6 Type S screws spaced 8 in. OC and 1-1/2 in. from the end joint. Butted end joints to be offset a min. of 8 in. from base layer end joints. Butted side joints of outer layer to be offset min. 18 in. from butted side joints of base layer. When Steel Framing Members (Item 3C) are used, two layers of nom 5/8 in. thick, 4 ft wide are installed with long dimensions perpendicular to furring channels. Base layer attached to the furring channels using 1 in long No. 6 Type S hugle-

head steel screws spaced 12 in. OC in the field of the board. Butted end joints shall be staggered min 2 ft. within the assembly, and occur midway between the continuous furring channels. Each en of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 6 in. on each end. The two furring channels shall be spaced approximately in OC and be attached to underside of the truss with one Isomax clip at each end of the channel Screw spacing along the gypsum board butt joint shall be 8 in. OC. Outer layer attached to the ring channels using 1-5/8 in. long No. 6 Type S bugle-head steel screws spaced 12 in. OC in the field. The end of the outer layer boards at the butt joint shall be attached to the base layer boards

offset min 18 in. from butted side joints of base layer. When Steel Framing Members (Item 3E) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long No. 6 Type S bugle-head steel screws spaced 12 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 16 in, within the assembly. At the gypsum board bu joints, each end of each gypsum board shall be supported by a single length of furring channel equa to the width of the gypsum board plus 6 in, on each end. These additional furring channels shall be

ith 1-5/8 in. long Type G screws spaced 8 in. OC and 1-1/2 in. from the end joint. Butted end

joints to be offset a min of 8 in, from base layer end joints. Butted side joints of outer layer to be

5/8 in. thick, 4 ft wide gypsum board are installed with long dimensions perpendicular to furring hannels. Base layer gypsum board secured with 1 in. long No. 6 Type S bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. End joints secured to both resilient channels as shown in the end joint detail. Outer layer gypsum board secured with 1-5/8 in. long No. 6 Type S bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. Outer layer shall be finished as described in Item 5. AMERICAN GYPSUM CO Type AG-C CERTAINTEED GYPSUM INC Types FRPC, Type C

CERTAINTEED GYPSUM CANADA INC Type C CGC INC Types C. IP-X2, IPC-AR GEORGIA-PACIFIC GYPSUM L L C Types 5, DAPC LAFARGE NORTH AMERICA INC Types LGFC-C, LGFC-C/A NATIONAL GYPSUM CO Types FSK-C, FSW-C, FSW-G PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM Type C

TEMPLE-INLAND Type TG-C UNITED STATES GYPSUM CO Types C. IP-X2, IPC-AR USG MEXICO S A DE C V Types C, IP-X2, IPC-AR Gypsum Board For use when Item 3C is used and Batts and Blankets* are secured to the plywood subfloor, to the trusses or draped over the furring channel/gypsum panel ceiling membran as described in Item 3C. For method of gypsum board installation, see Item 4. CGC INC Types C. IP-X2, IPC-AR UNITED STATES GYPSUM CO Types C, IP-X2, IPC-AR USG MEXICO S A DE C V Types C, IP-X2, IPC-AR

4B. Gypsum Board* For use when Batts and Blankets* (Item 7A) and Resilient Channels (Item 3F) are used. Nom 5/8 in. thick, 4 ft wide gypsum board installed with long dimension perpendicular to resilient channels. Nom 1 in, long No. Type S bugle head screws are driven through channel spaced 8 in. OC. End joints of gypsum board similarly fastened to additional silient channels positioned at end joint locations. AMERICAN GYPSUM CO Type AG-C. Finishing System (Not Shown) - Vinyl, dry or premixed joint compound, applied in two

over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface Fiber, Sprayed* (Not Shown, Optional) Spray-applied cellulose insulation material. The fiber is applied with water within the concealed space, over the resilient channel/gypsum board ceiling membrane, in accordance with the application instructions supplied with the product, and antially fill the concealed space. Nominal dry density of 3.0 lb/ft3 . Alternate application method: The fiber is applied with U.S. Greenfiber LLC Type AD100 hot melt adhesive at a nomina ratio of one part adhesive to 6.6 parts fiber in accordance with the application instructions supplied with the product. Nominal dry density of 2.5 lb/ft3. Alternate application method: The fiber is

applied without water or adhesive at a nominal dry density of 3.0 lb/ft3, in accordance with the application instructions supplied with the product. When Item 6 (Fiber, Sprayed) is used, Furring Channels (Item 3) or Resilient Channels (Item 3A) spacing shall be reduced to 12 in, OC, When Item 6 (Fiber, Sprayed) is used, two layers of gypsum board required as described in Item 4. Not evaluated for use with Item 3C. U S GREENFIBER L L C Cocoon2 Stabilized or Cocoon-FRM (Fire Rated Material) Batts and Blankets* (Not Shown) For use with Item 3E Nom 3 in. thick mineral wool insulation held suspended in the concealed space with 0.090 in. diam galv steel wires attached to the

wood trusses at 18 in. OC 7A. Batts and Blankets* For Use With Items 3F and 4B - Glass fiber insulation draped over the resilient channel/gypsum panel ceiling membrane. Max. 3-1/2 in. thickness of glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance having a min. density of 0.5 pcf. Bearing the UL Classification Mark



attached to underside of the truss with Genie clips as described in Item 3E. Screw spacing along the um board butt joint shall be 6 in. OC. When Fiber, Sprayed (Item 6) is used, two layers of nor

coats to joints and screw-heads. Nom 2 in, wide paper tape embedded in first layer of compound

attached to furring channels as described in Item 2. B. Steel Framing Members* Used to attach furring channels (Item a) to studs (Item 1). 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. PAC INTERNATIONAL INC Type RSIC-1. 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-510 panel is installed between the wood framing and the UL Classified gypsum board, the

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. Wallboard

equired UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener ype and spacing, except that the required fastener length shall be increased by a minimum of /2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified ypsum Board QUIET SOLUTION INC Type QuietRock QR-510. Bearing the UL Classification Mark

Design No. U356	Design No. U333
(Exposed to Fire on Interior Face Only) Bearing Wall Rating 1 Hr	Bearing Wall Rating 1 H Finish Rating 23 min
Finish Rating 23 Min or 25 Min (See Item 2C) Load Restricted for Canadian Applications See Guide BXUV7	Load Restricted for Canad
5 6	-20000000
FIRE SIDE	3
HORIZONTAL SECTION	
	1. Wood Studs Nom 2 by 2. Gypsum Board* 5/8 ir attached to studs and p
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.	AMERICAN GYPSUM CERTAINTEED GYPSU CERTAINTEED GYPSU
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	CANADIAN GYPSUM G-P GYPSUM CORP, SU GEORGIA-PACIFIC CO
wall.2. Gypsum Board* Any Classified 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. diam	LAFARGE NORTH AM NATIONAL GYPSUM C PABCO BUILDING PRO
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.	PABCO GYPSUM Type TEMPLE-INLAND FOR UNITED STATES GYPS
when item /A, 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 bugle-head steel screws spaced 12 in. OC. Face layer attached to furring channels with 1-5/8 in. long Type S hard steel attached to furring channels with 1-5/8 in. long Type S	3. Batts and Blanket stud cavity.
layers. See Gypsum Board (CKNX) Category for names of Classified Companies. 2A Gypsum Board* (As an alternate to Item 2 not shown) - Any 5/8 in thick 4 ft wide	3A. Fiber, Sprayed* cellulose material. The fil
gypsum panels supplied by the Classified Companies listed below shown 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	3.0 lb/ft3 . Alternate appli AD100 hot melt adhesive fill the enclosed cavity in
in. from edge of board. CANADIAN GYPSUM COMPANY UNITED STATES GYPSUM CO	product. Nominal dry der U S GREENFIBER L L (3B. Fiber, Sprayed*
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	applied cellulose insulation accordance with the appli fill the enclosed cavity. M
Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. AMERICAN GYPSUM CO Types AGX-1, AG-C	NU-WOOL CO INC Cel 4. Joints and Nailhea Screw heads covered with
CERTAINTEED GYPSUM INC ProRoc Type C or ProRoc Type X CERTAINTEED GYPSUM CANADA INC ProRoc Type C or ProRoc Type X TEMPLE-INLAND FOREST PRODUCTS CORP Type X, Veneer Plaster Base-Type X, Water	*Bearing the UL Classifie
Rated-Type X, Sheathing Type-X, Soffit-Type X 2C. Gypsum Board* (As an alternate to Item 2, not shown) For Use with Item 5A only - 5/8 in. thick 4 ft wide gypsum panels applied horizontally and attached to studs and bearing plates with 1.14/i. Item W access thread gramum panel steel screws speed a max 8 in	
OC, with last screws 1 in.and 4 in. from edges of board. Finish Rating is 25 min. TEMPLE-INLAND FOREST PRODUCTS CORP Type X, Veneer Plaster Base-Type X, Water Pated Type X Sheathing Type X Soffit Type X.	
 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 study 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 R-13 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. Nominal dry density of 3.0 lb/ft3. Alternate application method: The fiber is applied with U.S. Greenfiber LLC Type	
AD100 hot melt adhesive at a nominal ratio of one part adhesive to 6.6 parts fiber to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 2.5 lb/ft3.	
 U S GREENFIBER L L C Cocoon2 Stabilized or Cocoon-FRM (Fire Rated Material) 5. Wood Structural Panel Sheathing Min 7/16 in. thick, 4 ft wide wood structural panels, min grade "C-D" 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	
 atom interior study. 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 by 4 in wood blocking. Attached to study on exterior side of well 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	
TEMPLE-INLAND FOREST PRODUCTS CORP 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:	
 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 PRP-108, including textured, rough sawn, medium density overlay, brushed, grooved and lap	
Siding. D. Cementitious Stucco Portland cement or synthetic stucco systems with self-furring metal lath or adhesive base coat. Thickness from 3/8 to 3/4 in., depending on system.	
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. Fiber-Cement Siding Fiber-cement exterior sidings including smooth and patterned panel or lap siding. 	
 Steel Framing Members (Optional, Not Snown)* 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, snowd 24 in OC nerrordicular to study. Channels secured to study as described in Itam 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. PAC INTERNATIONAL INC Type RSIC-1.	
 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.	
of study. Clips spaced 48 in. OC., and secured to study 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. *Bearing the UL Classification Mark	

Restricted for Canadian Applications See Guide BXUV7
1000 <u>/00 1000000 10</u> 24
3 2 1
ood Studs Nom 2 by 4 in., spaced 16 in. OC effectively cross braced.
psum Board* 5/8 in. thick, 4 ft wide, applied either vertically or horizontally, screw
ached to studs and plates with 1-1/4 in. long Type W steel screws, spaced 12 in. OC.
RICAN GYPSUM CO Types AG-C.
TAINTEED GYPSUM INC ProRoc Type C.
TAINTEED GYPSUM CANADA INC ProRoc Type C.
ADIAN GYPSUM COMPANY Types C, IP-X2, IPC-AR.
JYPSUM CORP, SUB OF
RGIA-PACIFIC CORP Type 5.
ARGE NORTH AMERICA INC Types LGFC-C, LGFC-C/A.
TO BUIL DING PRODUCTS LLC DRA
CO BUILDING FRODUCTS LLC, DBA
PLE-INLAND FOREST PRODUCTS CORP. Type TG-C
ED STATES GYPSUM CO. Types C. IP-X2. IPC-AR
MEXICO S A DE C V Types C IP-X2 IPC-AR
Batts and Blankets* (Optional) Mineral wool insulation, partially or completely filling
avity.
RMAFIBER INC Type SAFB.
Fiber, Sprayed* As an alternate to Batts and Blankets (Item 3) Spray applied
ose material. The fiber is applied with water to completely fill the enclosed cavity in
dance with the application instructions supplied with the product. Nominal dry density of
/ft3 . Alternate application method: The fiber is applied with U.S. Greenfiber LLC Type
00 hot melt adhesive at a nominal ratio of one part adhesive to 6.6 parts fiber to completely
e enclosed cavity in accordance with the application instructions supplied with the
ict. Nominal dry density of 2.5 lb/ft3.
GREENFIBER L L C Cocoon2 Stabilized or Cocoon-FRM (Fire Rated Material)
Fiber, Sprayed* As an alternate to Batts and Blankets (Item 3) and Item 3A - Spray
ed cellulose insulation material. The fiber is applied with water to interior surfaces in
dance with the application instructions supplied with the product. Applied to completely
e enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.
VOOL CO INC CERTINOSE INSULATION Joints and Nailbaads. Wallboard joints covered with paper tape and joint compound
bonns and realineaus wandoard jonns covered with paper tape and joint compound.
ring the III Classification Mark







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3 BDRM STANDARD

GENERAL NOTES:

1. CONTRACTOR TO COMPLY W/ ALL APPLICABLE BLDG. CODES AND REGULATIONS.

4. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO START OF ANY WORK.

THE REQUIRED 5% TYPE "A" UNITS IS MET.

N/A

FENANT SEPARATION WALL

U341

2x4 #2 SPF @ 12" C

CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL APPLICABLE PERMITS AND APPROVALS INCLUDING ALL FEES ASSOCIATED WITH PERMITS AND APPROVALS.
 CONTRACTOR SHALL PROVIDE ALL SUPERVISION, LABOR, MATERIAL, EQUIPMENT, MACHINERY AND ANY AND ALL OTHER ITEMS NECESSARY TO COMPLETE THE WORK.

5. CONTRACTOR AND/OR OWNER RESPONSIBLE FOR DETERMINING SPECIFICATIONS FOR MATERIALS, PRODUCTS AND SYSTEMS TO BE USED IN THIS PROJECT.

13. ALL INTERIOR DOORS TO BE 6 PANEL HOLLOW CORE WOOD DOORS IN SIZES AS INDICATED ON DRAWINGS. 14. ALL DOOR HARDWARE TO BE H/C COMPLIANT. ALL LATCHSETS AND LOCKSETS TO HAVE LEVER TYPE HANDLES. 15. PROVIDE WEATHERSTRIPPING AND ALUM. THRESHOLDS AT ALL EXTERIOR DOORS.

16. ALL HVAC CLOSETS TO HAVE LOUVERED DOORS. 17. ALL STAIR AND BALCONY RAILINGS TO BE 42" IN HEIGHT. BALUSTERS FOR ALL RAILINGS TO BE SPACED SO AS NOT TO ALLOW PASSAGE OF 4" DIAMETER SPHERE. 18. ALL STAIR TREADS TO HAVE 1" NOSING PROJECTION. UNDERSIDE OF NOSING PROJECTION TO BE ANGLED AT 30° FROM VERTICAL PER HANDICAP CODE REQUIREMENTS. 19. CONTRACTOR TO VERIFY AND COORDINATE LOCATION OF ALL PAD MOUNTED MECHANICAL EQUIPMENT.

o. CATH CAROLING Drawn By: JTB Checked By: GWF Date: 4/12/23 File: D&G Legacy Haw River V1 Revision Date Project: Legacy @ Haw River Version 1 Burlington, NC DeBoer & Gabriel Builders, Inc 6 Apt Buildings 1 Clubhouse Scale: 3/16"=1' Sheet No: **A-1** © COPYRIGHT 2023 x Design,LLC - All Rights Reserved



EXT. CORRIDOR WAL INTERIOR WALL NONE 2x4 #2 SPF @ 16" O0 INT. LOAD BEARING WAL 2x4 #2 SPF @ 16" O U333 FENANT SEPARATION WALL 2x4 #2 SPF @ 16" OC U341































 1
 Left Side Elevation

 A-5
 Scale: 3/16"=1'





628

Box P.O.







Scale: 1/2"=1'-0"

Tenant Separation Wall Section



Wall Section @ Corridor Scale: 1/2"=1'-0"

2 A-7









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Apartments V1

(2) 9-1/4" LVL W/ 2____ JACKS EA END



Structural Notes: 1) LVL BEAMS SUPPLIED TO BE OF 1.9 E-VALUE OR GREATER. 2) ALL JACK STUD SUPPORTS TO BE DUPLICATED ON ALL FRAMING LEVELS a) ROOF TRUSSES TO BE SECURED AT EXTERIOR WALLS BY SIMPSON H1 OR EQUIVALENT HURRICANE TIES AT EACH TRUSS TO BEARING WALL CONNECTION.





X o. O TE T CARPEN Drawn By: JTB Checked By: GWF Date: 4/12/23 File: D&G Legacy Haw River V1 Revisions: Project: Legacy @ Haw River Version 1 Burlington, NC DeBoer & Gabriel Builders, Inc 6 Apt Buildings 1 Clubhouse Scale: AS NOTED Sheet No: **S-4**

Apartments V1