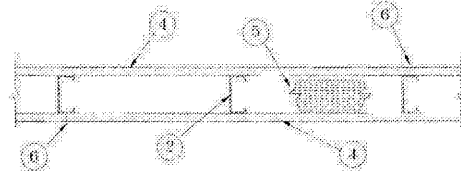


Bearing Wall Rating --- 1 Hr (See Item 2)

Nonbearing Wall Rating --- 1 Hr (See Item 2)

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 eUL Certification Mark for jurisdictions employing the UL or eUL Certification (such as Canada), respectively.



- 1. Floor and Ceiling Runners** --- (Not shown) --- Channel shaped, fabricated from min 0.0329 in. thick, bare metal thickness (No. 20 MS/C) corrosion-protected steel, that provides a sound structural connection between steel studs and adjacent assemblies such as floors, ceilings and/or other walls. Attached to floor and ceiling assemblies with steel fasteners spaced not greater than 24 in. OC.
- 2. Steel Studs** --- Min 0.0129 in. thick, bare metal thickness (No. 20 MS/C) corrosion-protected steel studs, min 3-1/2 in. wide, cold formed, designed in accordance with the current edition of the Specification for the Design of Cold-Formed Steel Structural Members by the American Iron and Steel Institute (AISI). All design details enhancing the structural integrity of the wall assembly, including the axial design load of the studs, shall be as specified by the steel stud designer and/or producer, and shall meet the requirements of all applicable local code agencies. The max stud spacing shall not exceed 24 in. OC. Studs attached to floor and ceiling runners with 1/2 in. long Type S-12 steel screws on both sides of the studs or by welded or bolted connections designed in accordance with the AISI specifications (bearing walls). Studs to be cut 1/2 to 3/4 in. less than assembly height and friction-fitted into floor and ceiling runners (nonbearing walls).
- 3. Lateral Support Members** --- (Not shown) --- Where required for lateral support of studs, support shall be provided by means of steel straps, channels or other similar means as specified in the design of a particular steel stud wall system.

- 4. Gypsum Board*** --- Nom 5/8 in. thick, 24 to 54 in. wide gypsum panels, attached vertically or horizontally with 1-1/4 in. long Type S-12 steel screws. When applied vertically to studs, joints centered over studs and staggered one stud cavity on opposite side of studs and attached with screws spaced 8 in. OC along the edges and 12 in. OC in the field. When applied horizontally to studs, no distance requirement on joints on opposite sides of studs and attached with screws spaced 8 in. OC along the edges and in the field. When used in widths other than 48 in., gypsum panels to be installed horizontally.
- 5. Batts and Blankets*** --- (Optional, not shown) --- Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See Batts and Blankets (BKNV or BZLZ) Categories for names of Classified companies.
- 6. Joint Tape and Compound** --- Vinyl or caulk, dry or preformed joint compound applied in two coats to joints and screw heads. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges.
- 7. Caulking and Sealants*** --- (Optional, not shown) --- A bead of acoustical sealant applied around the partition perimeter for sound control.

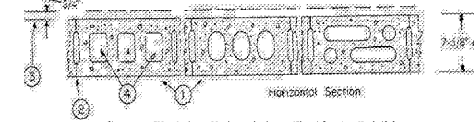
UNITED STATES GYPSUM CO --- Type FRX-G.

UNITED STATES GYPSUM CO --- Type AS

Bearing Wall Rating --- 2 HR.

Nonbearing Wall Rating --- 2 HR

Load Restricted for Canadian Applications --- See Guide BXUV7



1. Concrete Blocks* --- Various designs. Classification D-2 (2 hr).

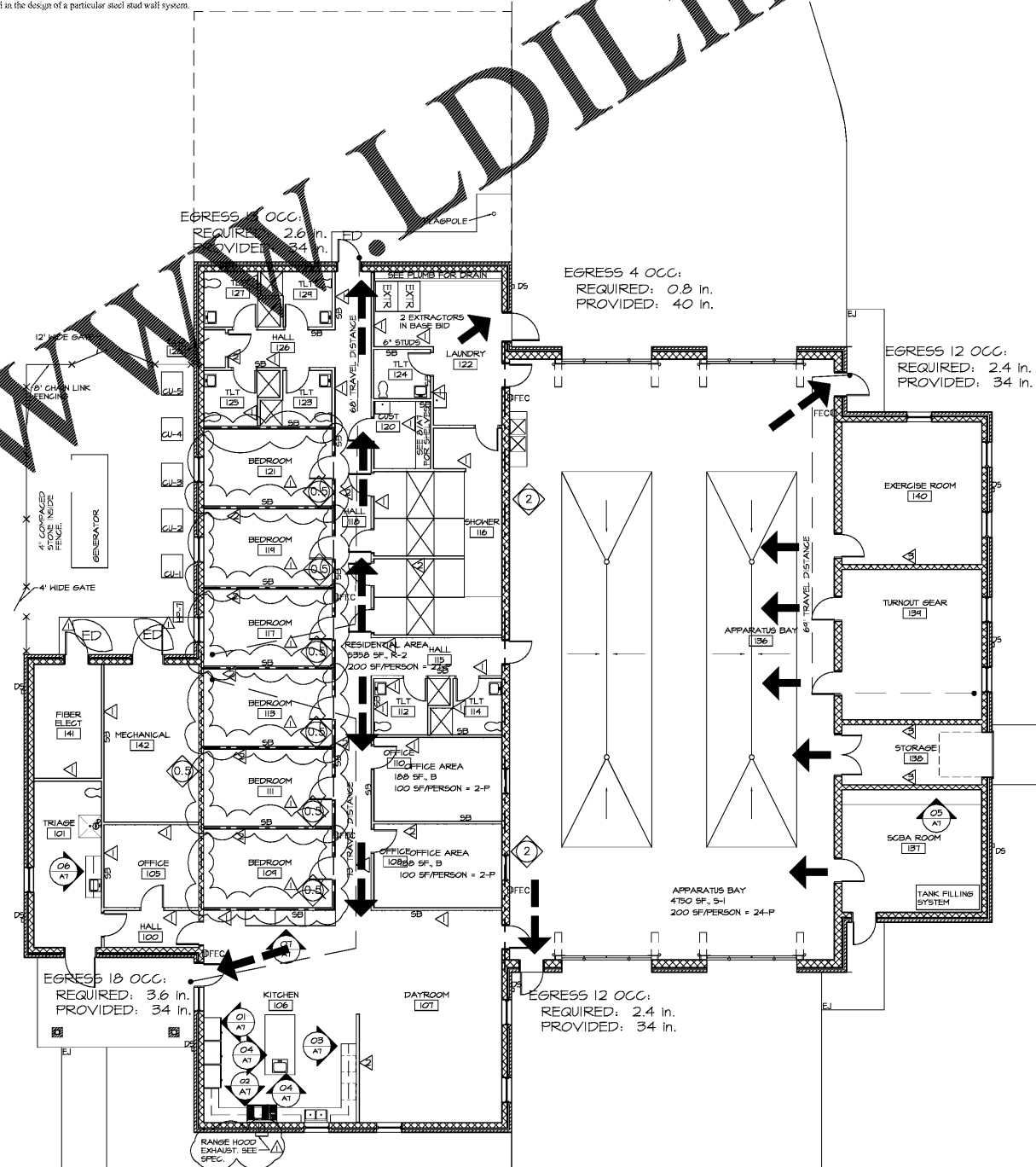
See Concrete Blocks category for list of eligible manufacturers.

- 2. Mortar** --- Blocks laid in full bed of mortar, nom. 3/8 in. thick, not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Type I cement (proportioned by volume) and not more than 50 percent of total time (correct volume). Vertical joints staggered.
- 3. Portland Cement Stucco or Gypsum Plaster*** --- Add 1/2 in. classification if used. Where combustible members are framed in with plaster or stucco must be applied on the face opposite framing. Max. classification of 1-1/2 hr. Attached to concrete blocks (Item 1).
- 4. Loose Masonry Fill** --- If all spaces are sealed with loose dry expanded slag, expanded clay, perlite, vermiculite, perlite, water repellent vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation add 2 hr to classification.
- 5. Foamed Plastic*** --- (Optional, Not Shown) --- 1-1/2 in. thick max, 4 ft wide, attached to concrete blocks (Item 1).

DOW CHEMICAL CO --- Type Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax Exterior Insulation, Thermax H Thermal Plus Liner Panel and Thermax Heavy Duty Plus (HDP)

* Indicates such products shall bear the UL Classification Mark

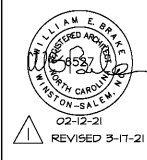
Order Plans @ WWW.LDILine.com



LIFE SAFETY PLAN
SCALE: 1/8" = 1'-0"



City of Winston-Salem
FIRE STATION 3
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