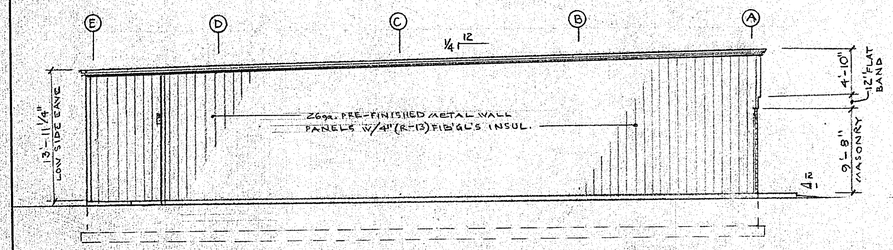
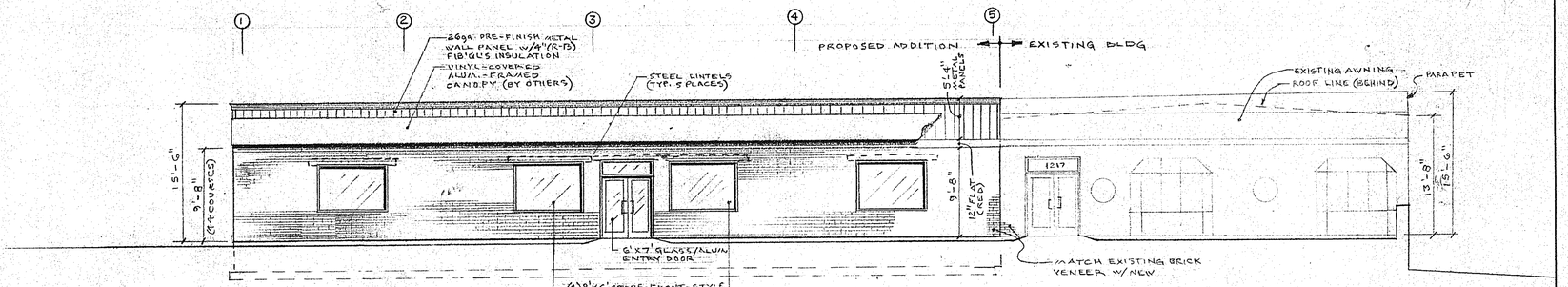


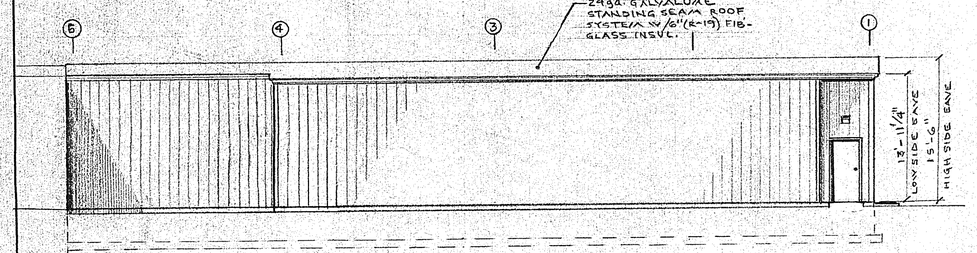
NORTH ELEVATION

1/8" = 1'-0"



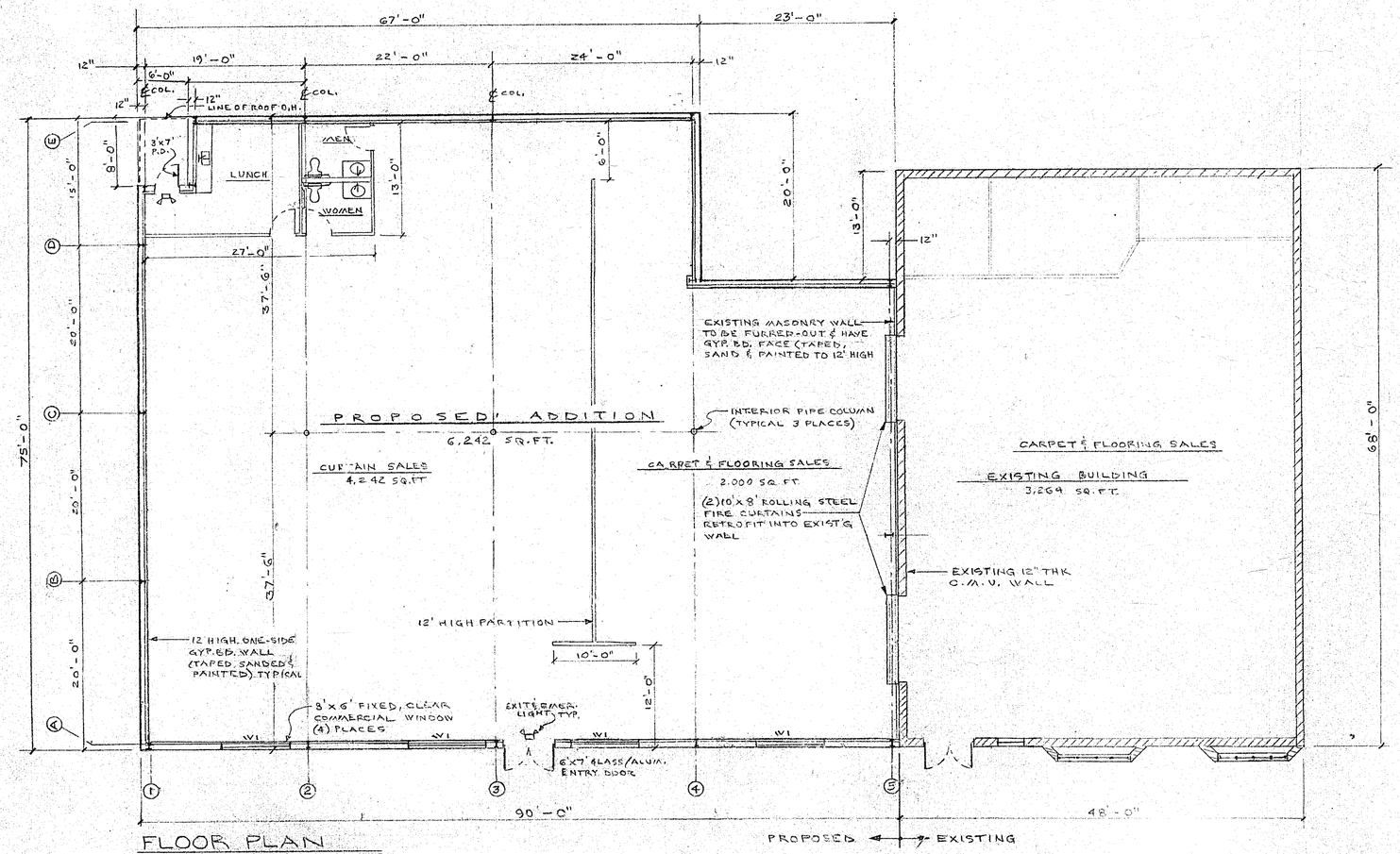
WEST ELEVATION

1/8" = 1'-0"



EAST ELEVATION

1/8" = 1'-0"



FLOOR PLAN

1/8" = 1'-0"

STRUCTURAL STEEL NOTES

1. *General Contractor to verify all dimensions and elevations.*
2. All structural steel materials, workmanship and detailing shall be in accordance with the latest provisions of the American Institute of Steel Construction (AISC) Manual, 9th edition. All steel shall be ASTM Type A 36 unless otherwise indicated otherwise. All structural steel tubing shall conform to ASTM A-500 Grade B and have a minimum yield stress of 46,000 p.s.i..
3. Unless otherwise noted, beam-to-beam and beam-to-column connections shall be made with 3/4" dia. ASTM A-325 bolts, nuts and washers as required, and field bolted. Connections shall be designed for 50% of the total allowable uniform load listed in the section "Allowable Loads On Beams" starting on page 2-33 of the AISC Manual of Steel Construction, 9th edition.
4. All welds, field or shop, shall be made by certified welders. All work shall be executed in conformity with the American Welders Society (AWS) code.
5. All structural steel to be given one shop coat of red oxide primer paint.
6. All new steel bar joists, if any, shall conform to the latest edition of the Steel Joist Institute (SJI) standard specifications. All joists to receive one shop coat of red oxide primer paint.
7. No construction loads are to be placed before steel joists are properly anchored and bridging is in place.
8. Do not completely weld joists in place until properly aligned. Tach weld each end on the same side and do any aligning during installation of bridging. Only then make the final weld.
9. All metal roof or floor decking shall be continuous over three spans or more where possible. Installation shall be in accordance with the manufacturer's recommendations. See plans for type, gage and finish. All decking shall be tack welded in place, once aligned.

DESIGN LOADS

The structure has been designed to support the following superimposed loads:

Roof Live Load.....35 p.s.f.
Roof Dead Load.....5 p.s.f.
Wind Load.....17 p.s.f.
Mezz. Total Load.....N/A p.s.f. (where applicable)

CODE REVIEW

This building has mixed use groups, Business (B) & Low Hazard Storage (S-2).
Type of construction is 2C – Noncombustible Unprotected.
Building area = 6,242 sq. ft.
Building Height 16 ft. (max., at peak)
The fire separation is more than 40 ft.

The maximum building area allowed by Table 503 is 14,400 sq. ft. for either occupancy, and the maximum height allowed is 40 ft. The building is under both limits.

The building qualifies for non-separated use groups – Section 313.1.1 The building is within height and area requirements for both occupancies. The building is under 12,000 sq. ft., so no fire suppression system is required under Section 904.2. Per Section 313.1.1 no fire separation assemblies are required.

From Table 602, the exterior walls are non-load bearing with a fire separation distance greater than 30 ft., no fire resistance rating is required. Fire partitions for tenant space separation, no fire resistance rating is required. No fire resistance rating is required for the roof assembly.

The building does / does not exceed 7,500 sq. ft. but town water is / is not available, therefore a fire suppression system is / is not required.

ENERGY DATA

BASED ON 6" (r-19) IN ROOF, 4" (R-13) IN WALLS

Insulation Data:

Area of roof 6,260 sq. ft.
Area of walls 4,183.3 sq. ft.
Area of fenestration 255 sq.ft.

Code Allowance:

Area of roof 6260 sq. ft. x 0.07 (u value) = 438.2 btu/hr
Area of walls 4,183.3 sq. ft. x 0.25 = 1045.8 btu/hr

TOTAL CODE ALLOWANCE: 1484.0 btu/hr

Installed Values:

u=.47 @ fenes.; u=.05 @ 6" insul.; u=.045 @ 4" insul.

Area of roof 6260 sq. ft. x 0.05 = 313 btu/hr
Area of walls 4183.3 sq. ft. x 0.045 = 188.3 btu/hr.
Area of fenestration 255 sq. ft. x 0.47 = 119.9 btu/hr

TOTAL INSTALLED VALUE: = 621.2 btu/hr

621.2 < (is less than) 1486.8 .

REGIONAL BUILDERS INCORPORATED

GEORGIA MILLS INC.
1217 GRAFTON ST., WORCESTER, MA

SCALE: AS NOTED	APPROVED BY	DRAWN BY: BCS
DATE: 3/27/02		REVISED

PROPOSED ADDITION

FLOOR PLAN & ELEVATIONS

DRAWING NUMBER: A-1