

**HEBERT
CONSTRUCTION
LLC**

May 11, 2004

P GOLD RING
LEWISTON, MAINE
04240
TEL 207.661.2091
FAX 207.661.2711
Commercial
Institutional
Residential
General Contractors
Construction Managers

Michael J. Nugent, Inspection Services Manager
City of Portland
320 Congress Street
Portland, ME 04101

RE: Minot Medical Center - Existing Roofing Concern

Dear Michael:

Hebert Construction, together with Minot Medical Center, Sabago Technical and Becker Engineering have been working to develop a roofing assembly that will satisfy both the needs of Minot Medical and the requirements of the city of Portland. Together we have come up with a system that will accomplish all goals.

The information provided in this letter and all attachments are as follows. In new areas are equal to or greater than the existing loads on the roof. The system has also been designed to comply with the leading requirement of the Shingle roofing system, attachment "B". Becker Engineering has put the calculations for the new assembly that we they created and reviewed and these calculations are on the following page as attachment "A".

As you will see in the letter from G&E Roofing, the Gable System is designed to have a load of 15 lbs per square foot to weight down the assembly. The calculations comprised from Becker Engineering shows that the existing loading at the decked areas was only 8 1/2 lbs/sf and the new loading in the decked areas will be 8 1/2 lbs/sf. With the roof held in place and not have come up with the following solutions to provide an additional half to one pound of weight to the decked areas to provide adequate coverage if deemed necessary.

- Add 1" rigid insulation between deck joists - 1 1/4 lbs/sf
- Use existing batten under deck as needed to make up batten
- Dry and install small poly and batten between the framing members
- Use 5/8" sections together to provide greater square foot coverage

Additional options will be discussed once all the factors are evaluated and analyzed in order to provide the hospital with the most useful roof repair system. Fisher Contracting would like to extend our thanks for your cooperation with this matter and allowing us to perform the demolition work and investigation of the roof prior to having all aspects of construction wrapped through completely. I am available anytime to discuss this project and you can be reached me at 707-783-3221.

Respectfully,


Timothy D. Fisher

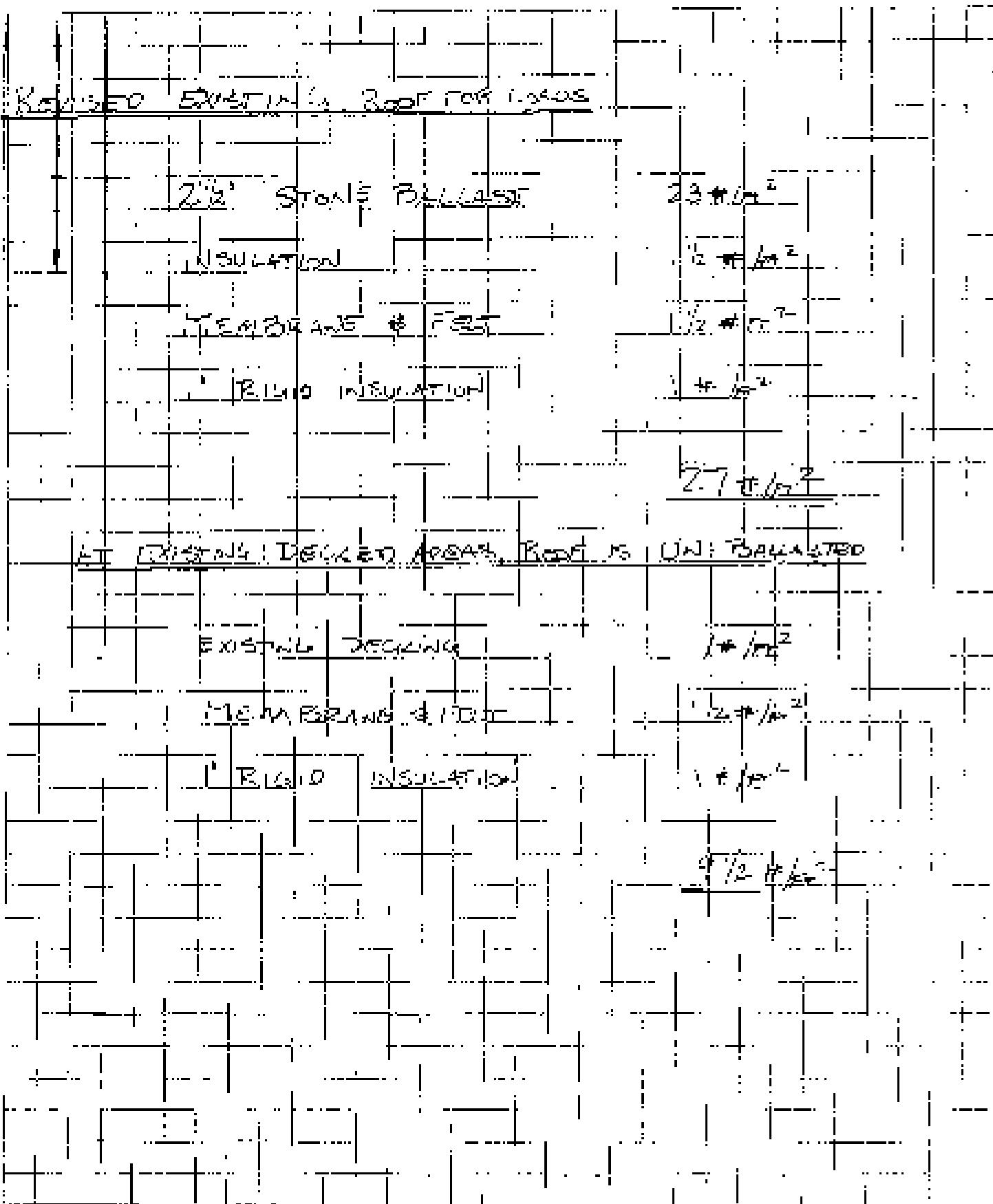
Cc: Michael P. Ladd, Meier Medical Center
Will Crowley, Seabag Technologies

ATTACHMENT 6A**B E C K E R**

STRUCTURAL ENGINEERS, INC.

73 Yule St., P.O. Box 200, MT 59101-2000
FAX 406-587-2888 ■ TEL 406-587-1922

Project 17th & 1st Street Center - Post Office
No. 1194 Street 3 3
Completion Dg. 1/26/04 Date 1/14/04 /000
Checked by _____ Date _____



B E C K E R

STRUCTURAL ENGINEERS, INC.

28 York Street, Somers, NY 10589-1029
T 914-873-1888 ■ F 914-873-1929

Project Name: Moses River Crossing Project
W.D. # 04 Date 1-23-01
Calculated By: TG Date 1-15-01
Checked By: _____ Date: _____

Revised New Corner Loads

At Decked Areas (Moses River membrane)

Corner Holes

3 #/ft²

(1) 2x1 @ Perimeter

15 #/ft²

2x4 @ 2'4" o.c.

35 #/ft²

(Neens membrane)

65 #/ft²

East Roof Membrane

1 Roofing Felt

12 #/ft²

East 1" T-610 Insulation

1.5 #/ft²

2.5 #/ft²

Total Dead Load Accs

Roof Decks

24 #/ft²

Decks & Pads

B E C K E R

structural engineers inc.

75 York Street, P.O. Box 1000
W.L. 620-072-EEB # 100-000-B78 1000

Project 1445 Temporary External Roof (24400)
W.D. 134 3'0" X 0'3"
Calculated by PLR Des 1999 10-2004
Checked by _____ Date _____

Kenosha New Plywood DeckAT required AreasExiste TUV SYSTEMFELT & RIGID INSULATIONThe Roof GlassEXIST Roof Membrane* Roofing FeltEXIST Rigid Insulation

Total 12640 Lbs/sq ft
Roof deck at required Areas

10 #/ft²12 #/ft²14 #/ft²25 #/ft²12 #/ft²12 #/ft²12 #/ft²22 #/ft²22 #/ft²25 #/ft²

Attachment 14B

GAF ROOFING CO., INC. • 40 Gaffey Rd., NJ 07136-5704 • 973.743.0300 • 800.423.0302 • 800.723.7257

John S. Schmitz, P.E.
Structural Engineer

**Underwriters Laboratories Approvals
Design "C" Loose Laid Protected Roofing System (U.L.)**

Membrane Types: .045" or .060" thick Neo-Reinforced EPDM Membrane
.045" or .060" thick Reinforced EPDM Membrane
Sure Tough Reinforced EPDM Membrane

UL Class "A"			
Deck Type	Description (1)	Insulation Thickness	Maximum Slope
Non-Combustible and Combustible	Asphaltic Coating	8" Max.	2"
	Deck Surface Insulation or Protection	4" Max.	2"

Notes:

- (1) Decks to be nominal 1-1/2" diameter river washed stone to a minimum 10 pounds per square foot. Individual 4x8' x 1/2" pavers (minimum 15 pounds per square foot) or applied lightweight backfilling pavers (maximum 10 pounds per square foot) may also be used. 1/8" maximum spacing between pavers is permitted.
- (2) Corflon U.P. Protective Mat must be used between the insulation and the applied polyisocyanate insulation.
- (3) Insulation products listed are for use above the EPDM membrane. One layer of my UL classified insulation may be added below the membrane without affecting the rating.

Carlisle SynTec Systems

Carlisle SynTec Systems
Division of Carlisle Corporation
875 Riverside Drive
Woburn, MA 01888
(781) 931-7100 Fax (781) 931-7105



JUNE 2, 1992

Mr. Norm Elvin
G & E Roofing Company, Inc.
675 Riverside Drive
Augusta, ME 04330

RE: Maine Medical Center
Portland, ME

Dear Mr. Elvin:

Our office has reviewed the wood deck area of the referenced project which incorporates Carlisle's Design "C" Roofing System. As verification, the patio area (as well as the typical roof areas) will be eligible for a 15 Golden Seal™ Total Systems Warranty upon completion of the project in accordance with our current Specifications and Details (including requirements outlined in Carlisle's Specification Bulletin 4-92) and upon acceptance of the installation after final inspection.

The Design "C" roofing assembly at the wood deck area has been designed to consist of the following components:

- Structural concrete roof deck
- 1" thick Sure-Seal HP Polyisocyanurate (loose laid)
- .045" thick, non re-inforced EPDM membrane (loose laid)
- 2" thick Sure-Seal HP Foamular
Sure-Seal HT Protective Mat
- Wood supports (2" x 4") over the HP Mat with the 4" dimension laid flat over the HP Mat.

Please be advised that it is Carlisle's policy to warrant the watertight performance of membrane systems through normal roof conditions, subject to specified limits. In order to clarify the warranty limitations of the Carlisle Golden Seal Total Systems Warranty, it is important to call your attention to the following.

1. Some warranty limitations are negligence, accidents and misuse. Because patio installations may subject the membrane system to an increased probability of these hazards, it is important that the building owner not be left to assume that acts of negligence and misuse are covered by our warranty.
2. At the time of Carlisle's inspection, it will be the responsibility of the building owner to provide access to the membrane roofing system, as required by the Carlisle Technical Representative, to verify the correct installation of applicable details if any additional objects are placed above the concrete pavers.



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Maine Medical Center
Portland, ME
June 2, 1992

3. On the chance that we may be asked to investigate a warranty claim and make warranty related repairs, the building owner must understand that providing access to the membrane (removing and replacing the wood deck above EP Mat which may limit access) will be his responsibility.
4. As a normal condition in our Golden Seal Total Systems Warranty, the owner must understand that if we are called to investigate a problem which is found to be due to causes other than our roofing system, there will be a charge for that service. The amount will be based upon the price current at that time plus portal-to-portal expenses.
5. After issuance, the Carlisle Golden Seal Total Systems Warranty shall be considered null and void if any alterations or repairs are made on or through the roof or objects such as, but not limited to structures, fixtures or utilities are placed upon or attached to the roof without first obtaining written authorization from Carlisle.

It is important that the above items be completely understood as they contribute to a further understanding of the Golden Seal Total Systems Warranty. Carlisle's warranty cannot be issued until a signed statement is received from the building owner which acknowledges the items noted herein. Please have the building owner review the terms of this letter and forward the signed original to our office.

Sincerely,

Duane G. Schrade

Duane G. Schrade
Senior Design Analyst
Northeast Region

DCS/bjk

cc: Beacon Sales Company
Inspection Paperwork
Project File
Set Raymond
CHF

I have read, understand and agree to the terms of this letter and am authorized by the building owner to agree to its contents.

Accepted: *Maine Medical Center*

Signed: _____

By: Robert J. Pergola

Title: _____

Date: _____