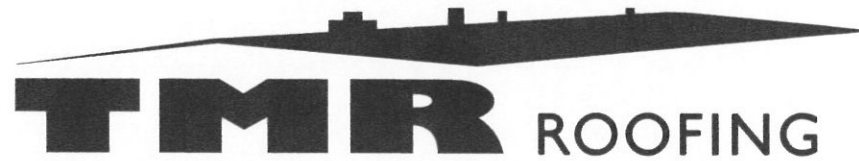


An aerial photograph of the Plum Boro School District campus. The image shows several large school buildings with dark roofs, a large parking lot, and a track and field area in the background. A logo for TMR Roofing is overlaid on the top left. The logo consists of a black silhouette of a roofline above the text 'TMR ROOFING' in bold, black, sans-serif capital letters. The word 'PLUM' is visible on a sign on the track.

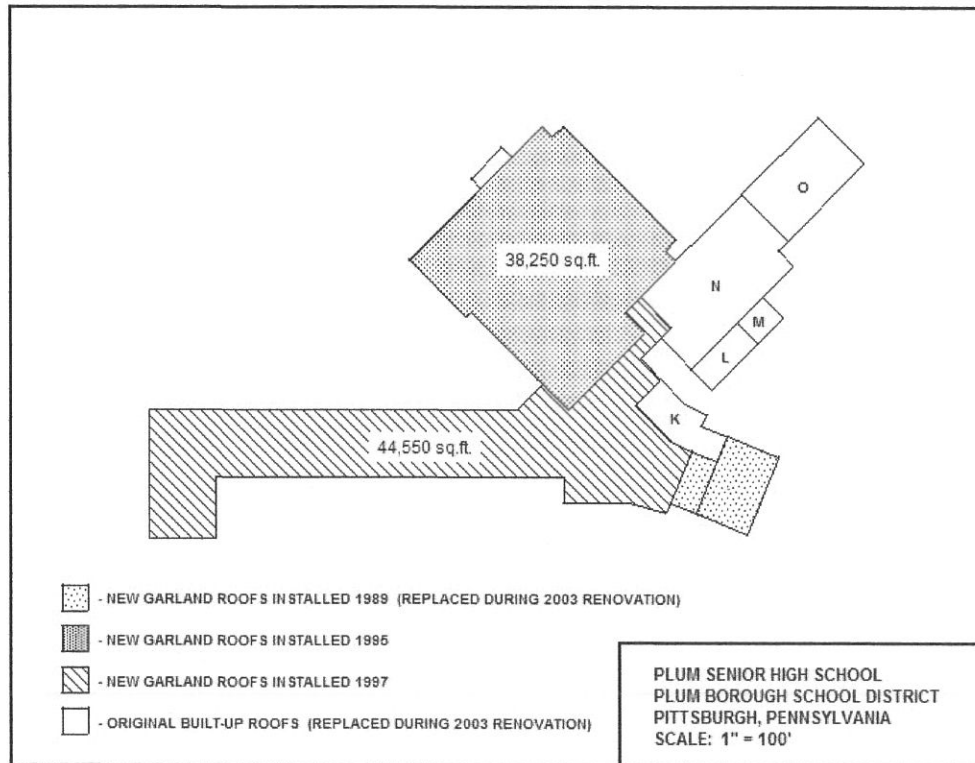
TMR ROOFING

Plum Boro School District
Plum High School

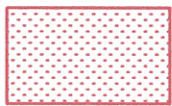
2013 Roof Recommendations
Provided by Tuscano Maher Roofing



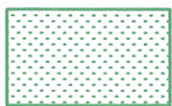
Existing Roof History



- The roof plan shows the areas of the building that were re-roofed in the mid 1990's. These roofs are over 15 years old and very little maintenance has been done.



Roof Area A installed in 1997



Roof Area B installed in 1995



Existing Roof System



- The existing roofs are composed of a 2.5” layer of polyiso roof insulation fastened through the original roof systems into either a gypsum or metal roof deck. On the pool, the insulation was set in hot asphalt. A layer of fiberboard insulation was then set in hot asphalt to provide a barrier between the fasteners and the new roof system. Two plies of fiberglass reinforced felts were then installed in asphalt and then the durable “Stressply E” cap sheet. The roofs were then again flooded with hot asphalt and slag surfacing was applied.



Existing Conditions



- The weather in our region is tough on roofing products. Thermal expansion and contraction as well as UV light exposure cause the roofing plies and asphalt to dry out and weaken. Most roofs in our region are replaced shortly after their 20th birthday.



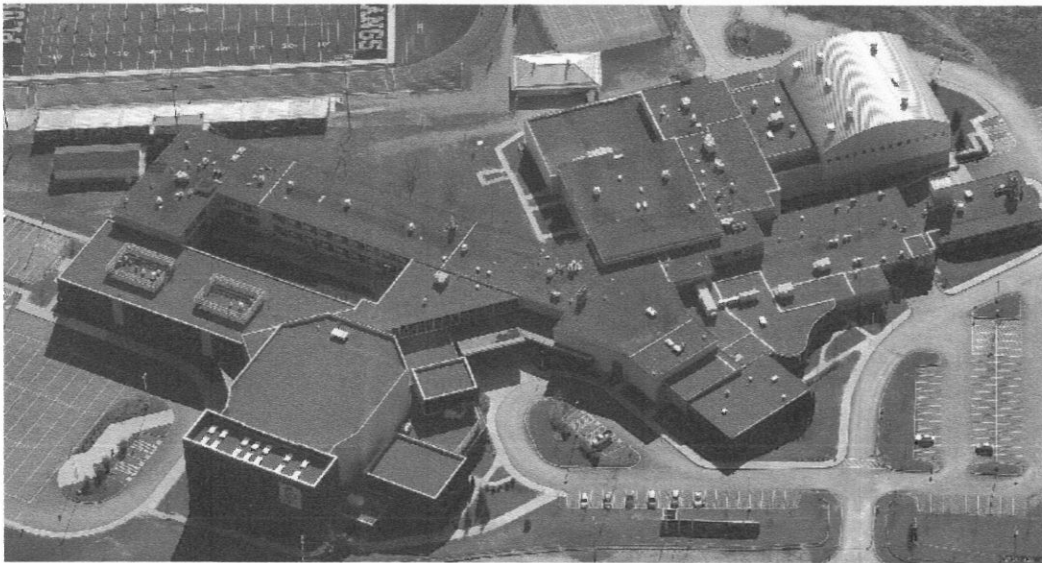
Existing Conditions



- The photo shows the damaging effects of the elements. The plastic roof drain strainer has dry rotted and split. The weather can have the same effect on the waterproofing roofing plies.



What TMR is proposing



Roof Area A installed in 1997



Roof Area B installed in 1995

These roof sections are approaching a crossroads. Although they are close to 20 years old, they still appear to be maintainable and can most likely be restored to their original integrity. If something is not done with the areas soon, they will need to be completely replaced. The warranties have expired on both areas. The first step in the restoration process is wet insulation identification.



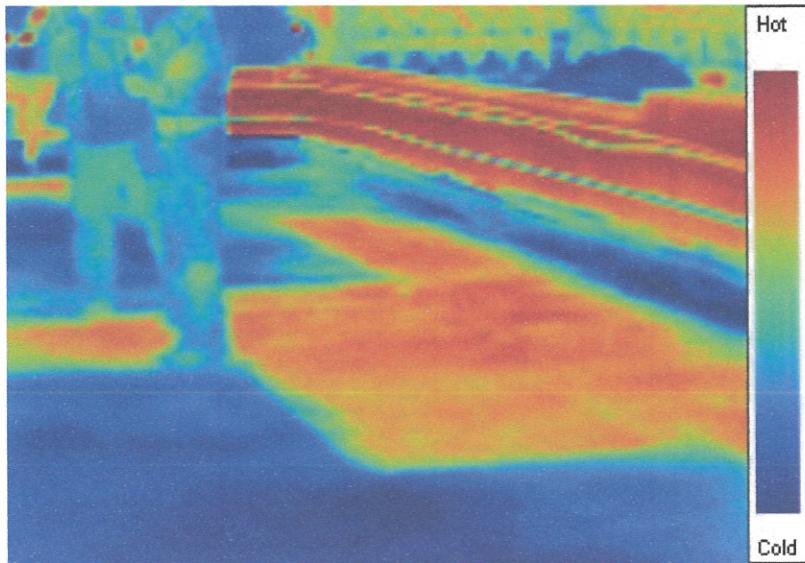
Roof Moisture Surveys



- The sun heats up the components of a roof throughout the course of the day. As the sun begins to set, roof surface temperatures will cool fairly evenly with the exception of any areas that contain moisture. The wet roof insulation boards retain the heat of the day longer and can be identified with the thermal imaging equipment.



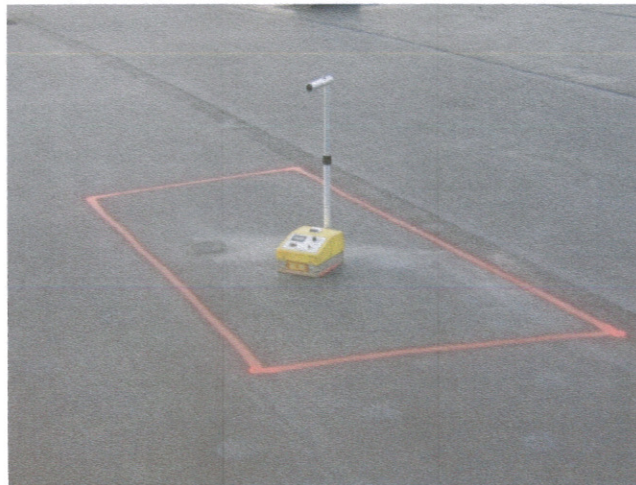
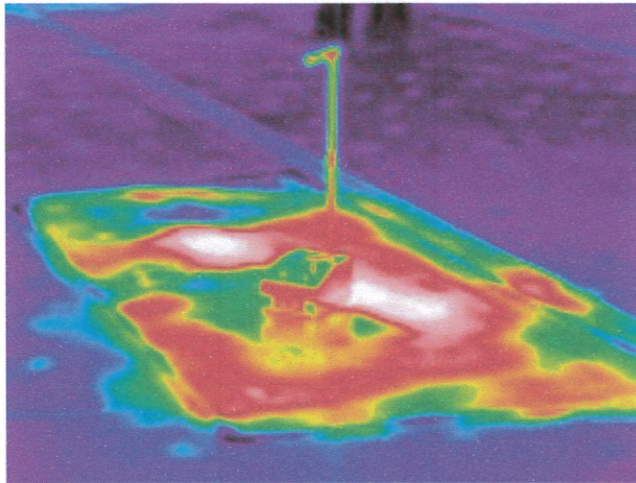
Roof Moisture Surveys



- This photo was taken with the thermal imaging equipment. The red and yellow images indicate the higher temperatures trapped in the wet roof insulation boards. Notice the technician marking the contours with spray paint.



Roof Moisture Surveys



- All areas of wet roof insulation will be marked on the roof in architectural paint. These areas will then need to be removed.



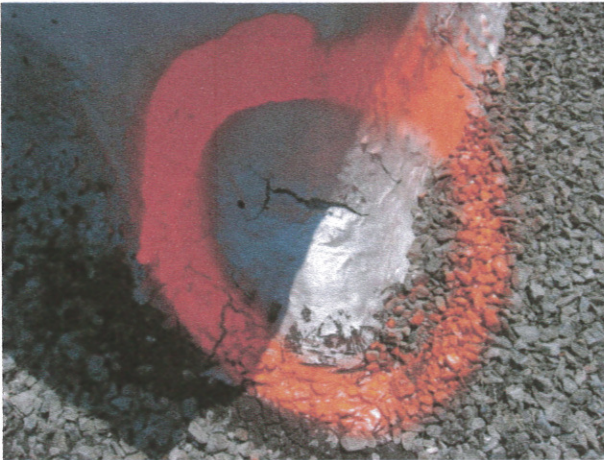
What TMR is proposing



- Areas of wet roof insulation are surgically removed, dry insulation is installed and then new roof membrane is applied. This assures that the entire roof area is 100% free of moisture and leakage areas related to the roof system.



What TMR is proposing



- The Garland Company will inspect the roof and mark any other areas of concern. All areas will be spot repaired according to the roof manufacturers specifications.





What TMR is proposing



- All loose gravel will be vacuumed from the surface of the roof. An asphalt primer will then be spray applied to promote better adhesion of the restoration material.





What TMR is proposing



- Once the primer has dried, Garland manufactured “*Weatherscreen*” is applied at a rate of 8 gallons per 100 square feet. This rubberized asphalt restoration product soaks down into the existing roof to provide additional waterproofing integrity. Slag surfacing is then applied to protect the new roof restoration system.



“Weatherscreen” Roof Restoration



- Once the new restoration process is complete and the roof is inspected by the Garland Company, a ten year leakage warranty will be issued. Costs for this process are a third of a full roof removal and replacement project.



“Weatherscreen” Roof Restoration



- New Kensington Arnold School District as well as Penn Trafford School District have both taken advantage of this cost effective alternative to roof replacement. This photo was taken at New Kensington High School.



Safety!



- An accident or OSHA citation during this project could be detrimental to both the building owner and TMR. Our company performs each project at standards above those mandated by OSHA.



Roof Investment Possibilities

- Roof Area A: \$267,000.00
- Roof Area B: \$230,000.00
- Note: Projected costs do not include wet roof insulation removal (if necessary). These numbers are for budgetary purposes only.

Roof replacement costs would fall close to:

Roof Area A: \$725,000.00

Roof Area B: \$630,000.00



Other Satisfied TMR Customers

- Westmoreland Hospital
- Latrobe Hospital
- Conemaugh Hospital
- Robert Morris College
- Carnegie Mellon University
- PPG Towers - Pittsburgh
- Ligonier Valley School District
- Kiski Area School District
- Hempfield Area School District
- New Kensington School District



Why Choose TMR?

- Any roofing product is only as good as the people installing it. TMR's shops and offices have been located less than 20 miles from Plum High School for over 35 years. Repeat customers such as Westinghouse, Kiski Area School District and PPG Industries demand perfection, and we can deliver. Please stop by our offices and see how professional we are.



Tuscano-Maher Roofing Inc.

**A Dunn & Bradstreet
3A-1 Rated Company**

*Tuscano-Maher Roofing Inc., employing more than 50 people, has offices, warehouses, and shops in a complex located in the center of Western Pennsylvania. In business since 1975 we have specialized in the repair, replacement and maintenance of commercial, industrial and institutional roofing for over 25 years.

*The last 20 years have seen numerous technical changes in the roofing industry, making continuous research, and education necessary. Through trade conventions, industrial shows, educational seminars, and numerous trade journal subscriptions, we keep pace with these changes. This commitment to roofing knowledge carries through from the company president to the workers on your roof. In the winter TMR employees attend installation seminars, view National Roofing Contractor's Association videos on the safe installation of various roof systems, and even receive First Aid and CPR instruction. Our commitment ensures the best advice for all of your roofing decisions and the highest quality application standards.

*TMR offers a complete range of roofing services. Our roofing crews perform roofing projects of any size and scope. These crews are thoroughly equipped with our own truck-mounted cranes, material handling equipment, and the latest roof removal and application equipment. This equipment coupled with our fully outfitted sheet metal and weld shops, enable us to complete any roofing project and custom fabricate roofing accessories to finish any detail work.

*TMR keeps five full time repair crews available to handle almost any roofing emergency. Our two-man repair crews are specially trained and equipped to locate leaks and efficiently trouble shoot even the most complicated roofing problems.

*TMR offers a comprehensive preventive maintenance-inspection program. This service provides semi-annual or annual visual inspections, roof condition reports, and budget summaries for repairs or roof replacement. This provides an indispensable management tool for the owner or manager whose time is too valuable to devote to inspecting roofs.

*We are the only roofing company in Western Pennsylvania offering electronic capacitance, infrared, and nuclear non-destructive roof moisture surveys. Our expertise and technologically advanced equipment renders you unmatched roof analysis. Proper analysis is the cornerstone of an informed roofing decision.

*Why have we made this commitment? Today's building owner or manager demands the highest quality standards from a knowledgeable roofing company with a professional corps of employees. We have the capabilities and determination to fully analyze your roofing needs and meet these needs with minimal interference to your ongoing operations. Whether it be a total removal and replacement of an existing roof, or tracking down a persistent annoying leak; you can count on TMR.

*Please take a moment to look through our brochure or call some of our references. You are even welcome to come out to our complex and look around. Choosing a roofer is an important decision and your scrutiny is our best asset.

If we can be of service, please call.



Contact Information

- Tuscano-Maher Roofing Inc.
373 Moween Road
Saltsburg, PA 15681
- Phone 724-639-9687
- Fax 724-639-9275
- Email joe@tmrroofing.com