



Abbott Wash

[HanesGeo.com](https://www.HanesGeo.com)

Location:
Mesquite, Nevada

Product and Quantity:
Pyramat®– 24,000 SY

Installation Date:
September 2001

Application:
SWPPP Solutions

Owner:
Mesquite Vistas

When a natural drainage channel near a Nevada development started threatening the integrity of residential properties, the owners were presented with a significant engineering challenge. The channel was characterized by high-velocity water flow, exceeding 14 feet per second, posing a considerable erosion risk.

The property owner aimed to transform the wash into a grassy park to enhance the community's aesthetic value. However, initial assessments determined that a standard grass-lined channel would be incapable of withstanding the high-velocity flow. Traditional turf reinforcement mats were also unsuitable due to their vulnerability to UV degradation and vehicle wear during maintenance events. The use of reinforced concrete, although a robust solution, was considered excessively costly and aesthetically undesirable.

After careful evaluation, Pyramat® was selected due to its proven performance in high-velocity flow conditions and tensile strength of 4000 lb/ft, capable of withstanding vehicular traffic. The implementation of Pyramat® successfully stabilized Abbott Wash and established lush greenery while protecting the surrounding properties. This innovative approach resulted in a net cost savings of over \$1.2 million compared to the concrete alternative and significantly enhanced the community's aesthetic appeal.



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