

Case Study: Facility Layout & Re-Design

Aggregate Construction Materials Services (ACMS)

- Changing the flow of people & materials

The Challenges

Pennsylvania's state highway expansion was forcing the ACMS's land to be split. Key concerns were for the safest customer flow through the new space. A huge need existed for the redesign of the retail and office building, the warehouse, and the travel patterns between. Currently, all customers were required to visit main building to order, then travel through active manufacturing/inventory to get to pickup point. This created chaos and frustration for many.

Efficiency Engineers Solutions

Efficiency Engineers documented the process flow for all staff and customers. Then data was collected on the size and shape of all warehouse items. Traffic flow and volumes both in receiving and selling were analyzed.

This provided the basis for examining purchasing and delivery patterns for materials and to design the best layout for the newly combined retail and warehouse facility. Items of all sizes and shapes had material handling designed for fast efficient access.



Results

Efficiency Engineers helped create a new flow of material and people at the facility. The new design allowed customer access to be at the front of the facility. Moreover majority of the items would be delivered directly to the customer's vehicle after being picked in the co-located warehouse. This resulted in driving to dock door to be reduced by over 50%.

Both customers and employees benefited from the newly designed layout.