Stack Striping and Row Markings

To organize the container stacks for computerized location, and to support the dispatching of trucks automatically from the Truck Dispatch Area (TDA).

In order to support the dispatching of trucks from the Truck Dispatch Area (TDA), it is vital for Landers Operations to know where every stacked International Import container is located at every moment.

Therefore, each reachstacker and Rubber Tire Gantry (RTG) on the Landers terminal that will handle containers in the stack has been outfitted with hardware, software, and a wireless data communication system to report on the location of every container in the stack.

And every possible stack location for containers has been identified with slot markings and row labels.

For more information on this year’s changes at Landers Terminal, please refer to all five educational flyers in distribution:

1. Stack striping
2. RTG assembly
3. TDA construction
4. TDA usage with reachstackers
5. TDA usage with reachstackers and RTGs

For more information: landersstackingproject@nscorp.com
RTG assembly — TWO large and fast cranes

To reduce the number of shifted containers, and to increase the speed of delivering the correct container to the trucker.

One of the two core changes at Landers is the introduction of Rubber Tire Gantry (RTG) cranes to the container stack in early 2018. These cranes are 80 feet wide, 80 feet tall, weigh 130 tons, and can move shipping containers more efficiently. These cranes will be assembled on a terminal in a 140 ft. x 300 ft. large area along 79th Street.

Coupled with the introduction of a Truck Dispatch Area (TDA) at Landers, the use of the RTGs will speed up delivery of shipping containers to the trucking community while eliminating the congestion in the yard near the container stack.

What kind of effect is expected? Average trucker dwell time for International Import containers is expected to decrease by 60%, while container capacity and throughput is expected to increase by at least 100%.

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TDA Construction

To eliminate congestion in the stack, and to control both the just-in-time dispatch of trucks to the stack to receive containers, and impose sequence discipline.

A paved and striped area approximately 75 feet wide by 1000 feet long is being constructed along the 79th Street interior border of Landers in the E Lot to accept trucks bound for the international import container stack.

Each lane of this Truck Dispatch Area (TDA) will be assigned to a particular reachstacker or RTG. Trucks are then dispatched at exactly the correct time and to exactly the correct parking row to receive the required container.

This process will be computer controlled at both the front of the TDA lane and within the handling equipment.

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TDA Usage with Reachstackers

To take advantage of the TDA area, the container location hardware, and reduce congestion.

The TDA area, once constructed, will be combined with computerized container location hardware, computerized container assignment hardware, the data communications system, and a new Operations process. This will help eliminate congestion in the stack area and to impose discipline on the first-in first-out truck queue.

There will be only as many trucks in the stack area as there is equipment to service the trucks. The truck drivers will no longer have to locate the container nor depart their truck cabin. The reachstacker can begin working on delivering the needed container even before the truck arrives on scene.

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TDA Usage with Reachstackers and RTGs

To take advantage of the TDA area, the container location hardware, and reduce congestion.

With the addition of the RTGs to the stack operation, the TDA dispatch operation will be expanded to include delivery of containers using the large and fast RTG cranes.

These RTG cranes hold the promise of delivering containers to the trucks three times faster than the reachstackers, because of less container shifting, faster handling speeds, and faster gantry speeds.

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