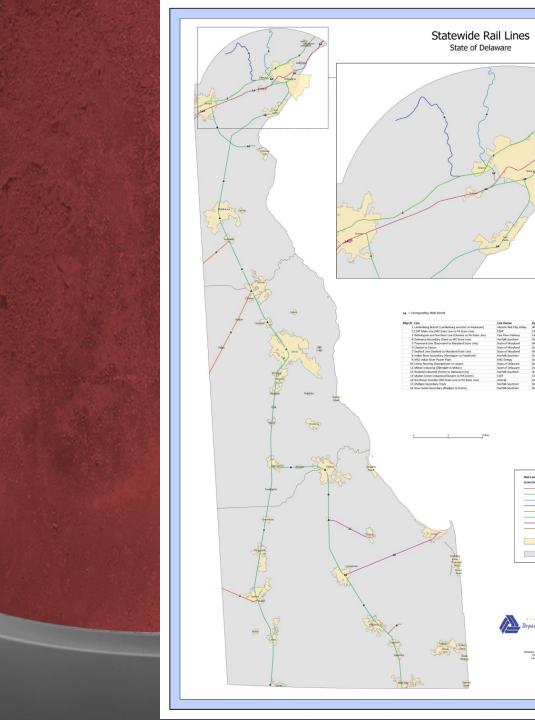
RAILROAD COORDINATION

DelDOT Winter Workshop March 14, 2014

- DelDOT's Process
 - History
 - Goals Moving Forward
 - Overall Project Coordination
- ADA Requirements for At-Grade Railroad Crossings
- DEMUTCD Striping Guidelines

Seven (7) Rail Operators in Delaware

- Amtrak
- CSX
- Norfolk Southern
- East Penn
- Maryland and Delaware
- Delaware Coast Line
- Wilmington & Western
- Several Private / Industry Sidings
 - PBF (Refinery)
 - Printpack
 - Evraz Steel
- Over <u>300</u> At-Grade Railroad Crossings & Over <u>70</u> Grade Separated Crossings





Rail Line (Line Owner) CIKIT East Prim Raheny Hotos: Bed City Valey NRG Energy NRG Energy State of Valyand

Municipal Boundary
County Boundary

Department of Transportation

Prepared By: disease Department of Tramport OD/0520N OF PLAVNENG Last Revised: 12/15/2008

- General Railroad Facts:
 - Railroad Owns the Right of Way across the roadway.
 - Railroad maintains the physical track crossing surface.
 - Agreement required for work within the Railroad Right of Way.

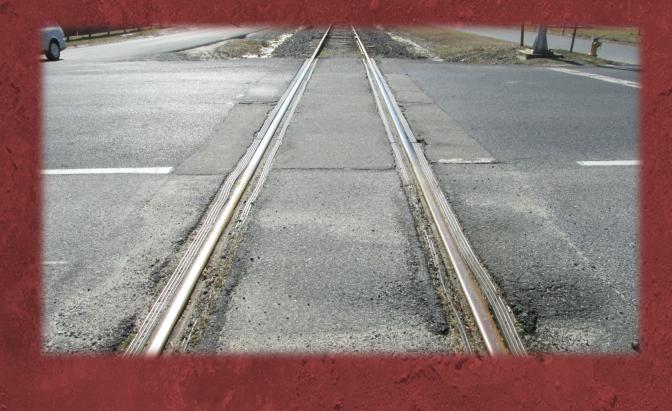






















Moving Forward

- Enhanced Coordination with all DelDOT Sections
 - Planning (Transportation Alternatives and Trails Program)
 - Design
 - Bridge
 - Maintenance
 - Pavement and Rehab
- Early Project Scoping
 - Identify Projects with Railroad Involvement
 - At-Grade Crossings
 - Railroad Right of Way Encroachment
 - Road Structure Crossing over Railroad
 - Railroad Structure Crossing over Road

Coordination with the Railroads

- Prioritization of the Crossing Replacement Program
- Identification of required Railroad Agreements
- Identification of required Right of Way Agreements
- Identification of the Specific Construction Parameters for the location, e.g.
 - Railroad Flaggers and Funding
 - Temporary Construction Crossings
 - Railroad Service Interruptions

- Identification of Projects with Specific ADA Requirements
 - Doing "nothing" is not an option.
 - Continue the Accessible Path through the At-Grade Railroad Crossing where pedestrian facilities are present today.
 - Planning for future Pedestrian and Bicycle Facilities





















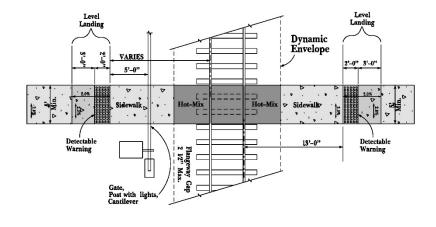






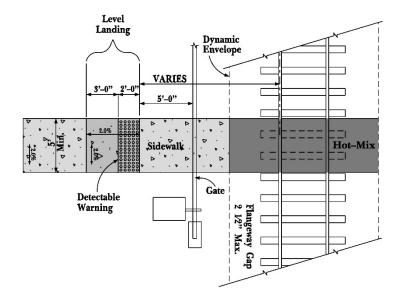
- Finalizing DeIDOT ADA Guidelines for At-Grade Freight Rail Crossings
- Working with:
 - DelDOT
 - FHWA
 - FRA
 - AREMA
 - Rail Operators
 - Other DOT's
- Incorporate into DeIDOT Standard Construction Details

Proposed ADA Details (Draft)

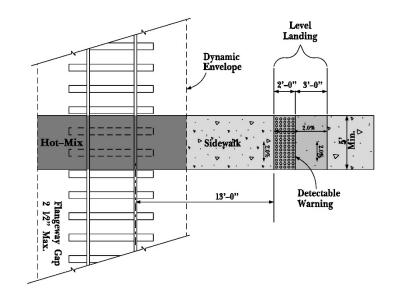


Plan View

Proposed ADA Details (Draft)



Proposed ADA Details (Draft)



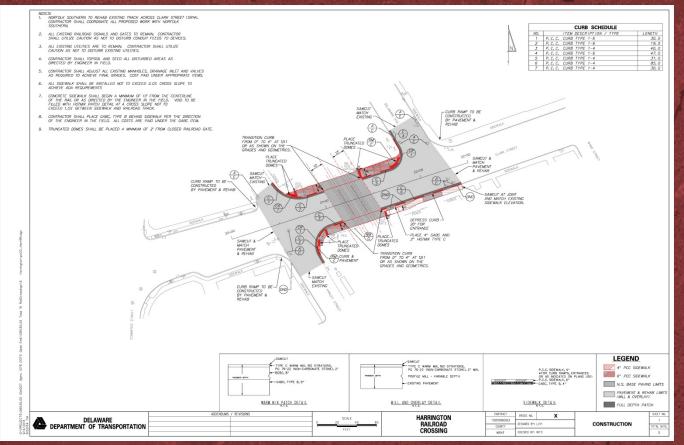
Recent Examples of ADA Improvements at Railroad Crossings

- US40 Improvements
- Felton (with Railroad)
- Harrington Pavement and Rehab
- Loockerman Pavement and Rehab
- SR48 Maintenance Contract
- SR41 Railroad Project (Future)
- Wilmington Avenue (Future)
- New Castle Avenue (Future)

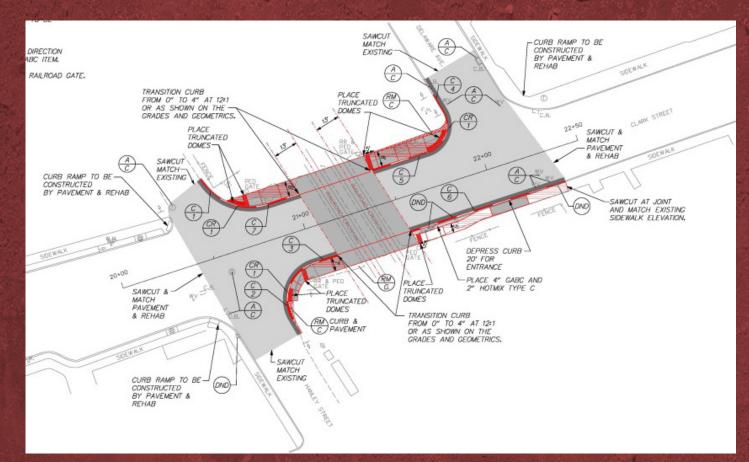


Pre-Construction Conditions

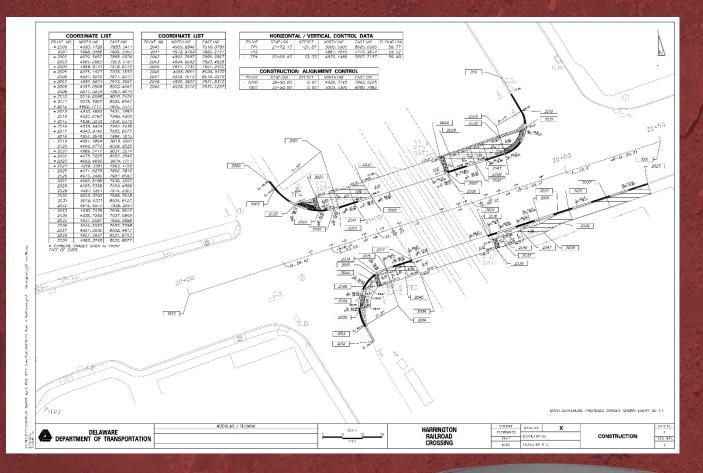
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Proposed Improvement Plan



Proposed Improvement Detail



Grades and Geometrics



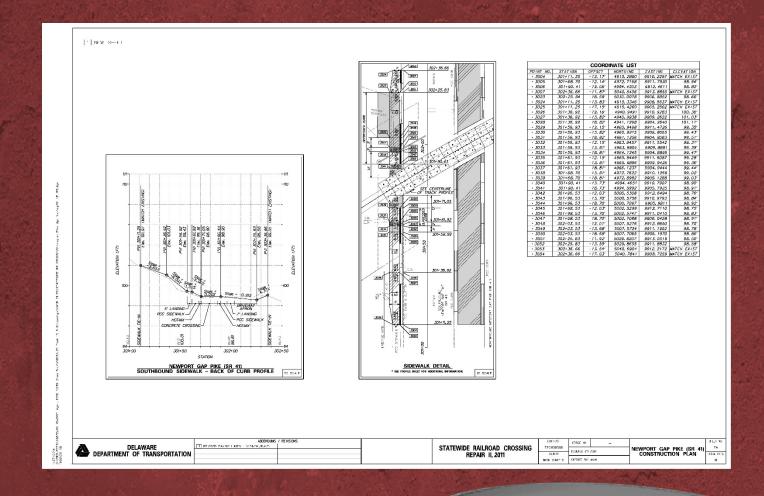
Post-Construction

ADA Improvements – SR48

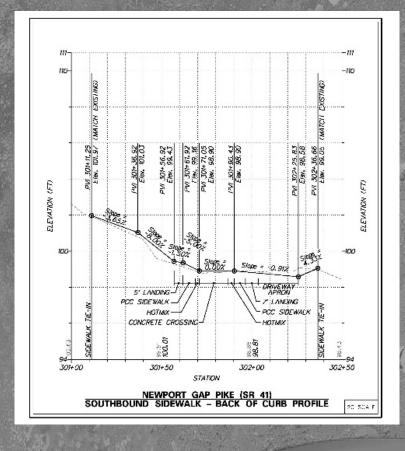


Post-Construction

ADA Improvements – SR41

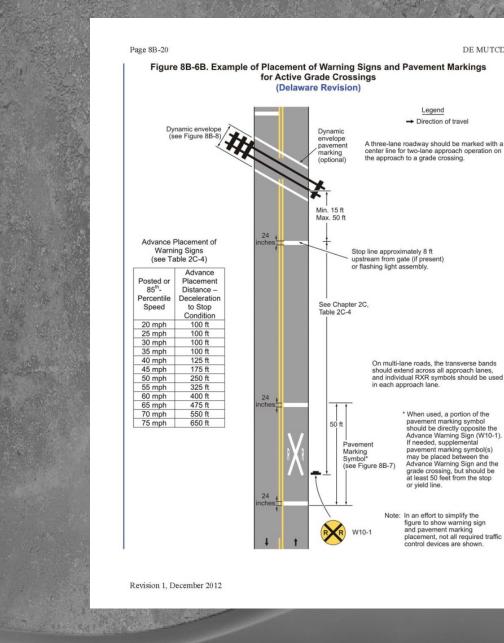


• ADA Improvements – SR41



DEMUTCD Striping Guidelines

 Part 8 - Traffic Controls for Highway-Rail Grade Crossings



RAILROAD COORDINATION

DE MUTCD





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- Email: Robert.Perrine@state.de.us