Safety Photos: Presentation Overview

- Driveway Spacing and/or Consolidation
- Corner Clearance
- Signal Spacing
- Median Treatments
- Acceleration and Deceleration Lanes
- Auxiliary Lanes
- Freeway Frontage Roads
- Arterial Frontage Roads
- Summary

Driveway Spacing and/or Consolidation

Cross Access



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Cross Access Desired



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Cross Access



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Cross Access



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Major Shared Access Point for Big Box



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Major and Minor Access Points for Big Box and Monument Sign



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Cross Access



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Cross Access



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Shared Access Retrofit



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Limited Driveways and Monument Signs



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Big Box with Limited Access



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Potential Drive Consolidation / Cross Access



- SH 191/42nd St – Odessa

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No Direct Access
Big Box Retail



- SH 191/42nd St – Odessa

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Side Access for Big Box Retail



- SH 191/42nd St @ Preston Smith Rd - Odessa

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Major Shared Access Point



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Single Driveway Access for Fast Food



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Fast Food – Single Access Point



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Fast Food with 3 Access Points



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Undesirable Spacing



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Build It and They Will Still Come!



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Poor Driveway Spacing



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Better Driveway Spacing



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What Are We Trying to Fix/Avoid?



- Multiple Access Points per Business

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What Are We Trying to Fix/Avoid?





- Reduce Conflict Points
- Increase Driveway Spacing

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Undesirable Driveway Spacing



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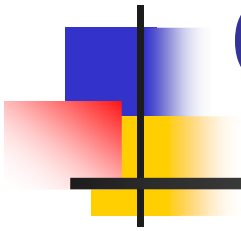
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Fast Food Restaurant With Limited Access



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Corner Clearance

Corner Clearance



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Corner Clearance



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Corner Clearance



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Corner Clearance



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Corner Clearance



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Corner Clearance



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Corner Clearance / No Direct Access



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Downstream Left-Turn Queue Backing Up Into Intersection



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TWLTL Conflicting Uses/ Inappropriate Median Cut



Corner Clearance



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Corner Clearance



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Corner Clearance / Raised Median



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Corner Clearance



What Are We Trying to Fix/Avoid?

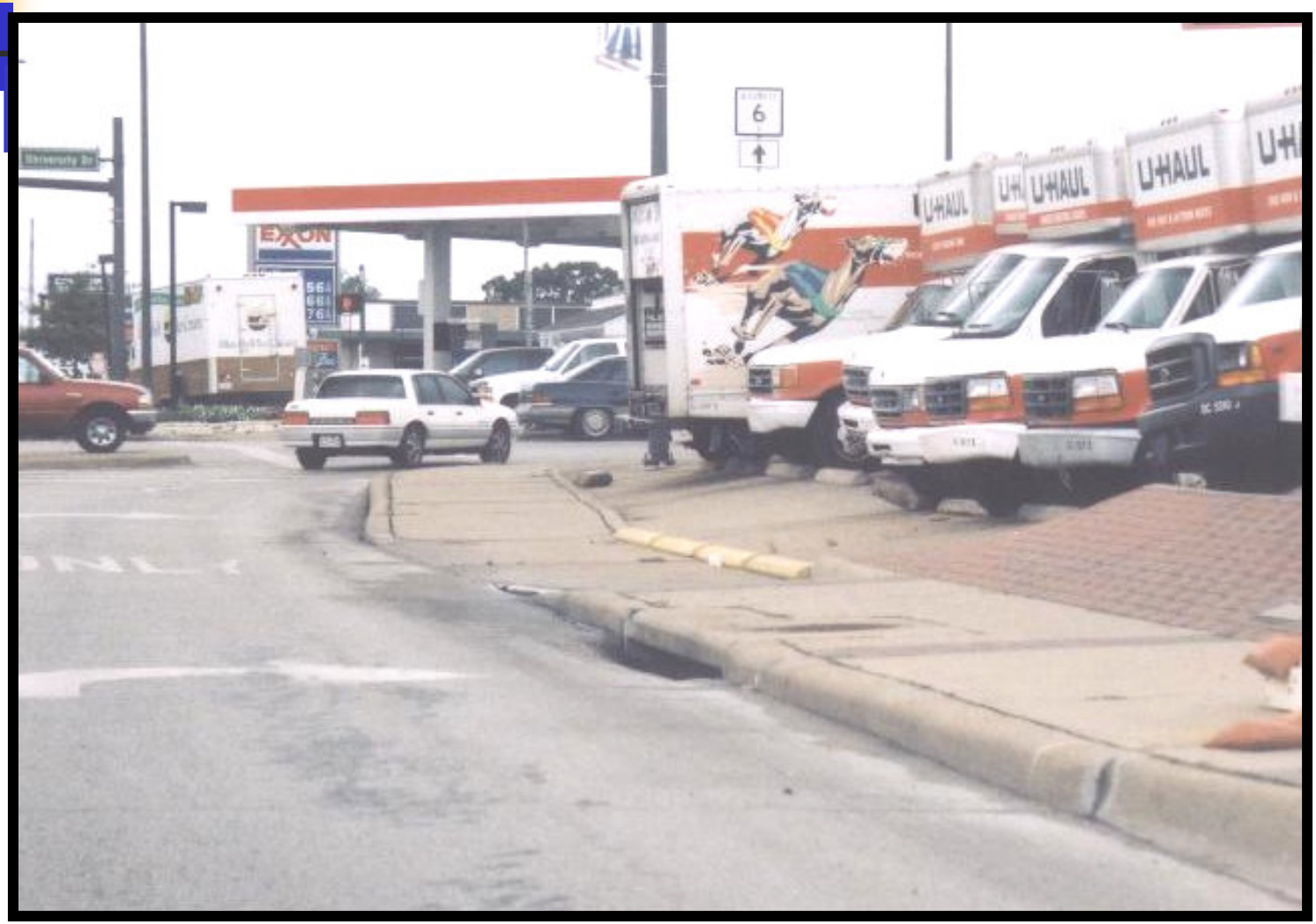


- Closed Access Points
- Increase Driveway Spacing

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Closed Access



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Signal Spacing

Signal Spacing and Directional Intersection



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Signal Spacing



- Maintains Progression / Movement

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What Are We Trying to Fix/Avoid?



- Poor Signal Spacing



Median Treatments

Raised Median



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Raised Median



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Raised Median



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Raised Median / Cross Access



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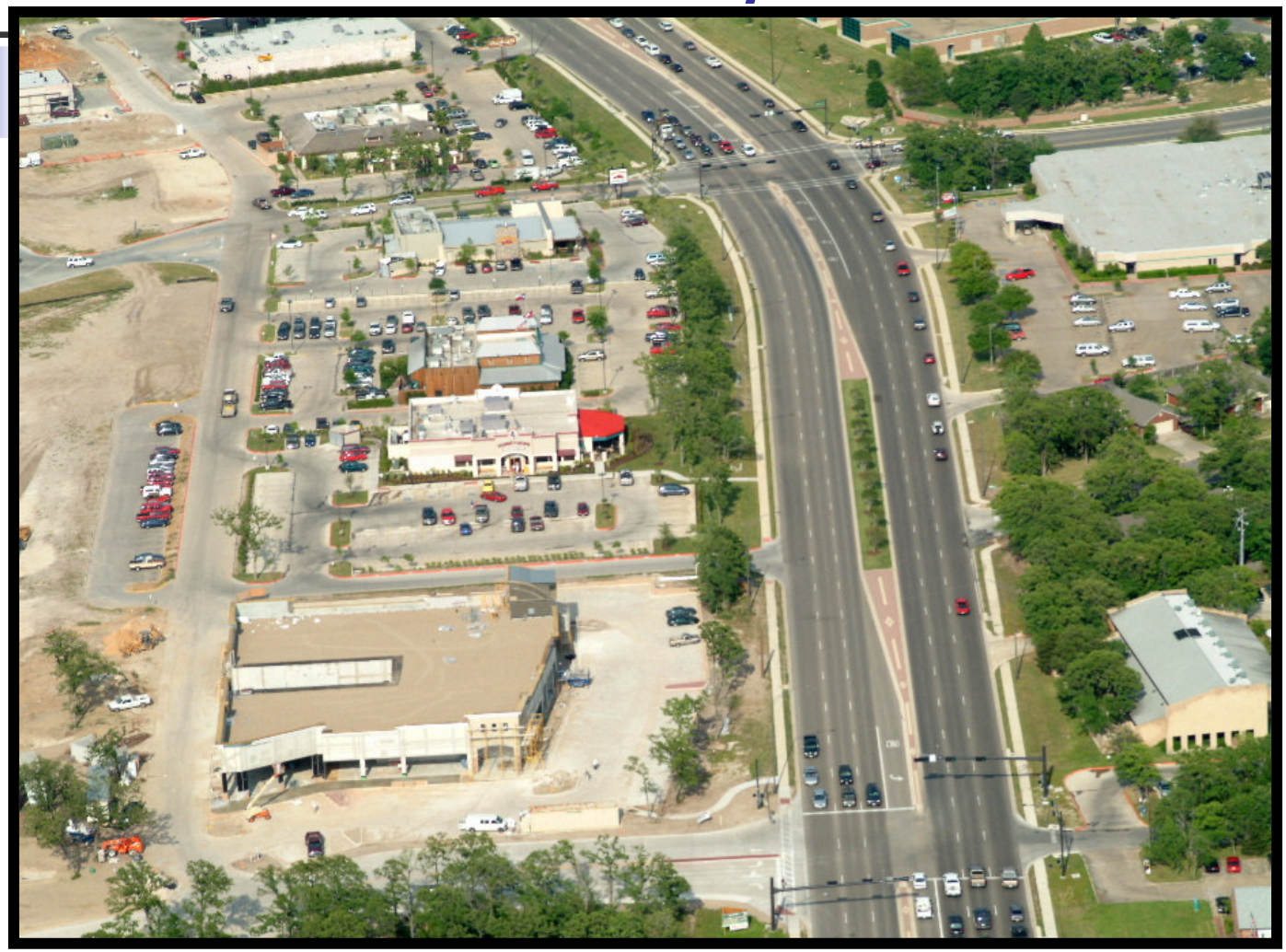
Raised Median / Cross Access



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Raised Median / Cross Access



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Raised Median / Cross Access



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Raised Median / Cross Access



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Raised Median in Advance of Development



Raised Median in Advance of Development



Two-way Left-Turn Lane Conflicts



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Raised Median - CBD



- US 385/Grant Ave – Odessa

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Potential Access Management Undeveloped Land



- Grandview Ave – Odessa

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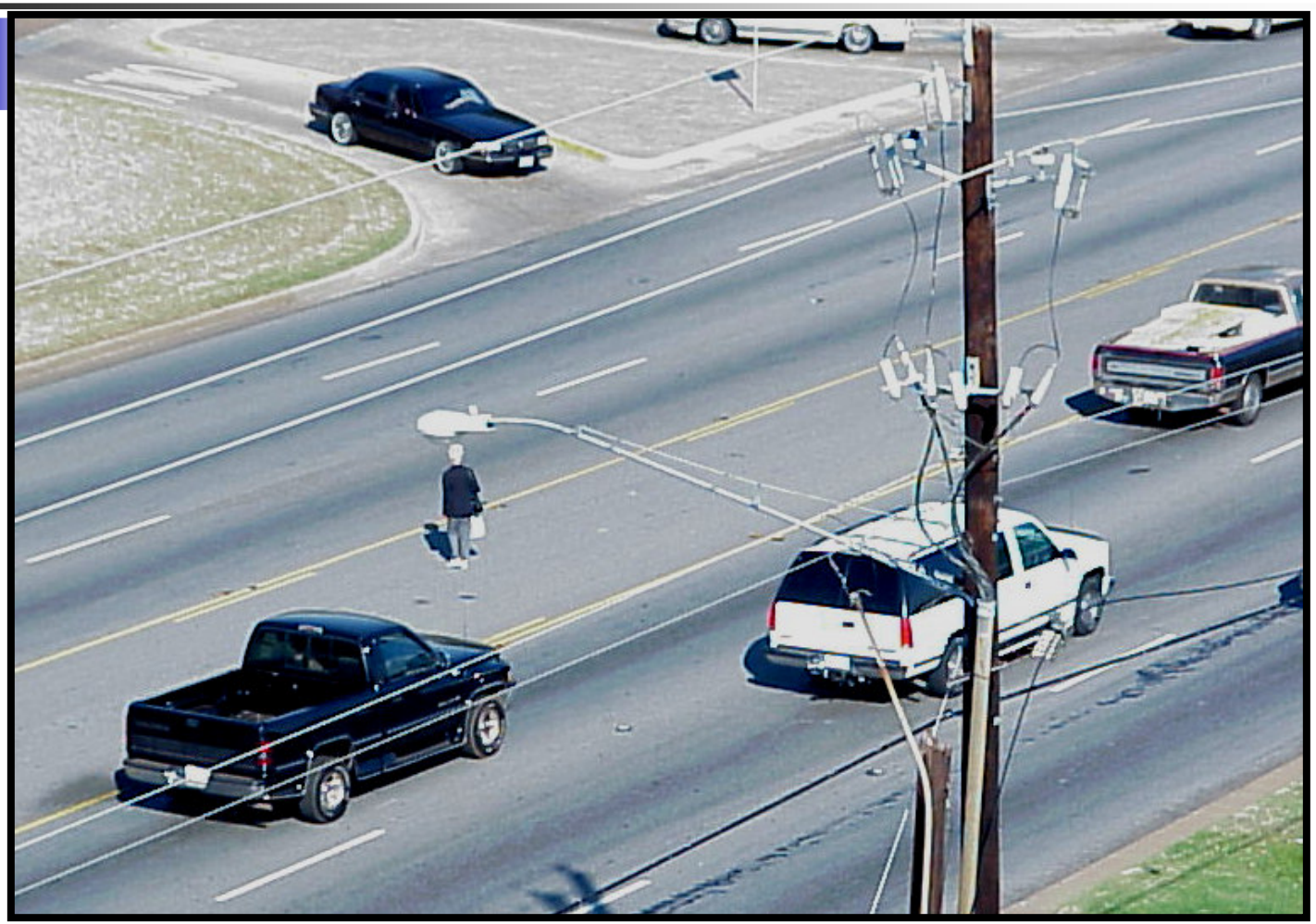
Directional Left-Turns



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Pedestrian Safety



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Safety – Reduce Conflict Points



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Safety - Reduce Crashes



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What Are We Trying to Fix/Avoid?



- TWLTL Conflicting Uses

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Medians



- Reduce Conflict Points & Congestion
- Increase Driver Expectations

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Signage for Raised Median Openings



- Provides Direction to Adjacent Businesses

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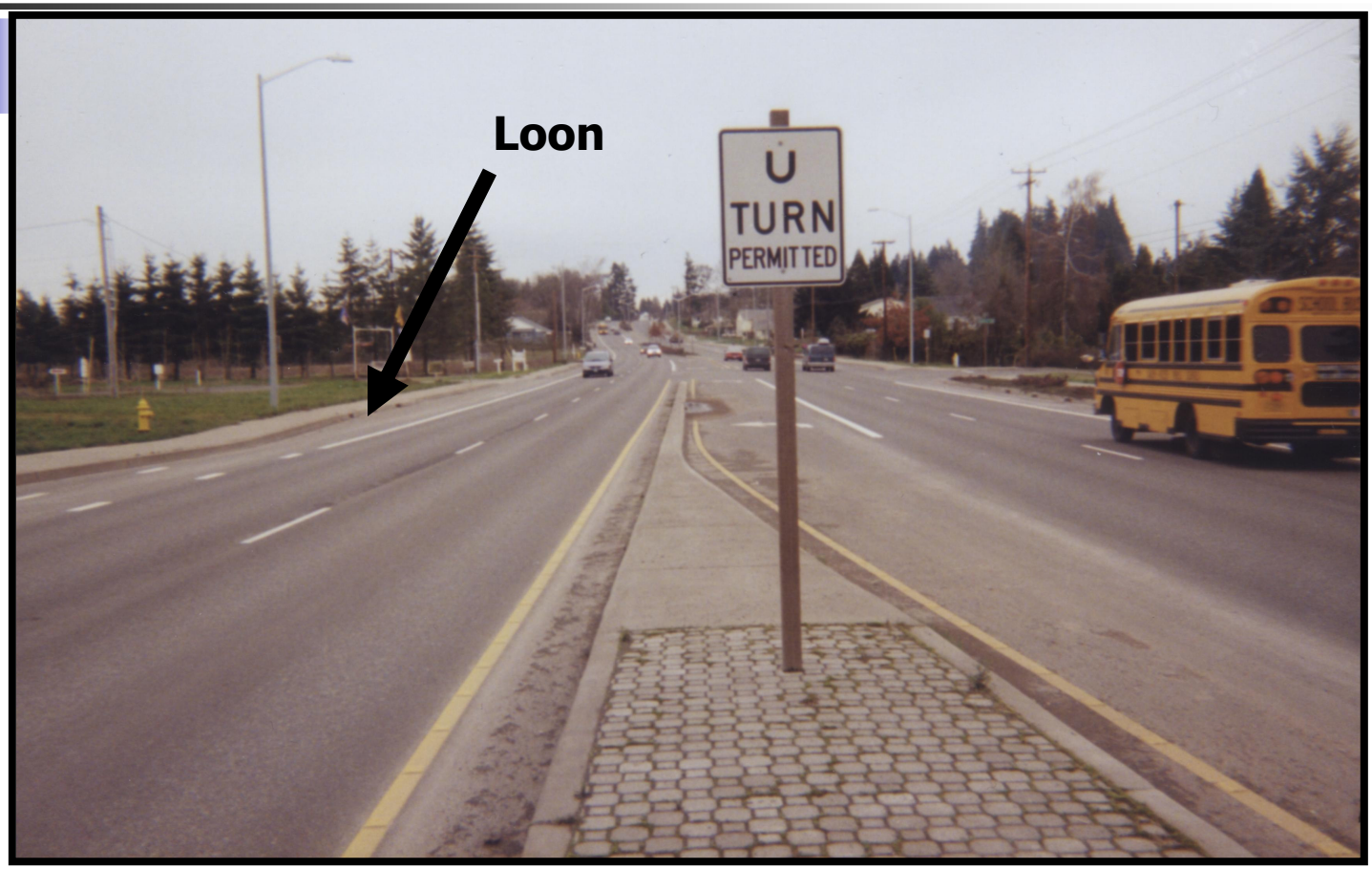
Raised Median at Close Intersection Spacing



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Word for the Day: "Loon"



Sometimes wider for two-stage turning maneuver (Salem, OR)

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"Two-stage" Loon



Left-turn and then merge with traffic (New Jersey)

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Michigan U-turn (1 of 3)



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Michigan U-turn (2 of 3)



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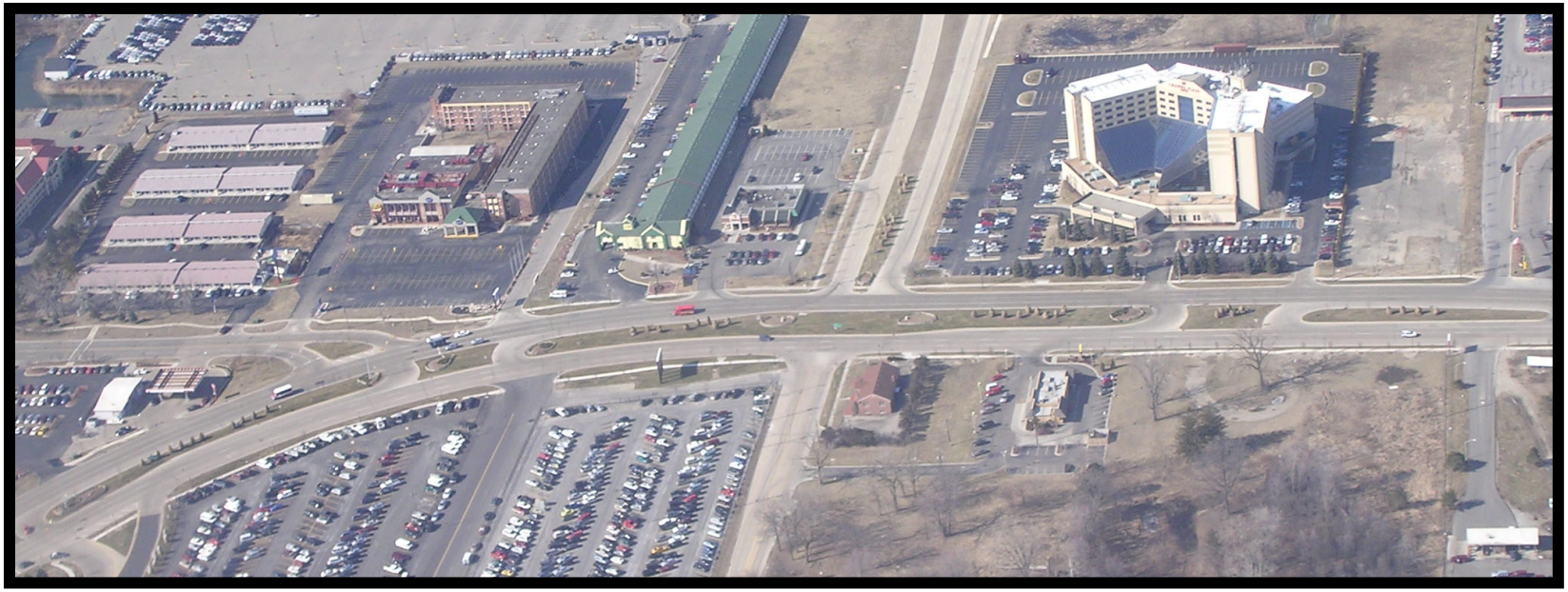
Michigan U-turn (3 of 3)



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Michigan U-turn



- Detroit, MI

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Michigan U-turn

- Detroit, MI



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Safety Impacts



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Safety Impacts



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Landscaping and Pavers



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Maintaining Driveway Access During Construction



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RM with Landscaping and Turn Bays



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Acceleration and Deceleration Lanes

Turn Lanes



- **Separate Speeds and Create Safe Havens**

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What Are We Trying to Fix/Avoid?



- Speed Differentials

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Decel Lane and Architectural Standards



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Architectural Standards



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Deceleration Lane



Right-In / Right-Out with Queue Storage



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Limited Length Deceleration Lane



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Photo courtesy City of Garland

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Decel / Accel Lanes



- Colorado Springs, CO

Auxiliary Lanes

Auxiliary Lane



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Auxiliary Lane



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Freeway Frontage Roads

Driveways and Ramp



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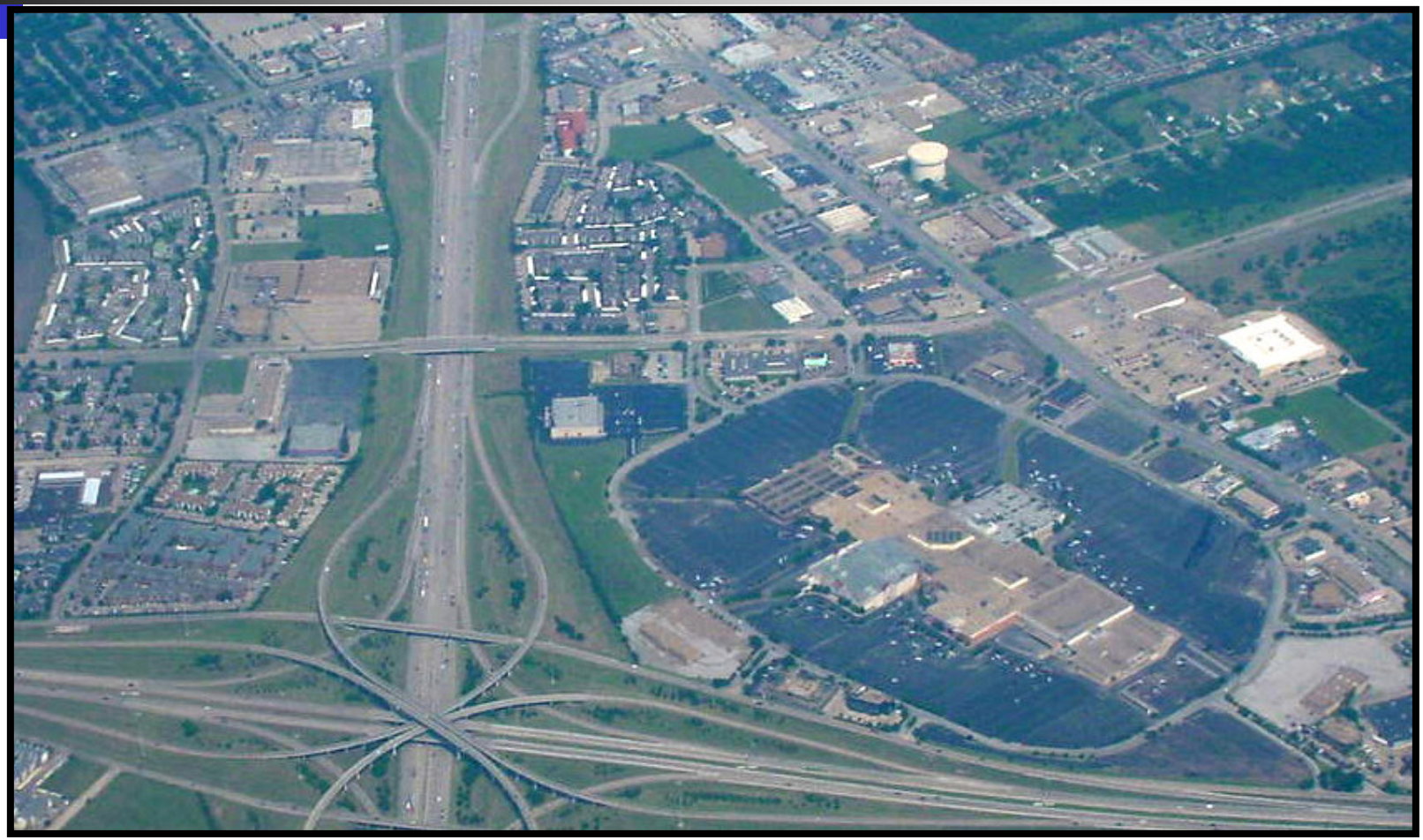
Driveway – Ramp Spacing



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Development Without Frontage Roads



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Corner Clearance on Frontage Road



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Driveway/Ramp Spacing and Right-In/Right Out



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Access Spacing on Frontage Road and Home Depot Architecture



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Limited Access on Frontage Road



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