

I-35 E, Dallas, TX

I-35 E / Webb Chapel Ext.

Northbound Exit

Southbound Entrance

Between NW Hwy / Regal Row

# Explanation of Diagram #1

- Black Lines represent I-35 E Northbound and Southbound
- Green Lines represent exit ramps
- Red Lines represent entrance ramps
- Blue Lines represent Harry Hines, Regal Row, and I-35E service roads

Diagram #1

Southbound I-35E from Loop 12 split: Traffic from Harry Hines and Webb Chapel Extension enter I-35E in right lane immediately before Regal Row exit takes cars off freeway in right lane. No extra lane present causes backups to Loop 12 split.



Northbound I-35E from Regal Row: Traffic enters freeway from Regal Row in right lane immediately prior to Webb Chapel Extension exit. Extra traffic in right lane causes backups approaching Regal Row.

# Analysis of Diagram #1

- Traffic introduced to southbound I-35E at same time right lane traffic is exiting at Regal Row
- Traffic introduced to northbound I-35E in same manner past Regal Row before right lane traffic exits to Harry Hines and Webb Chapel Extension
  - Right lane becomes congested and slows
  - Right lane traffic merges into center continuing process
  - Result is the entire freeway slows down and backs up

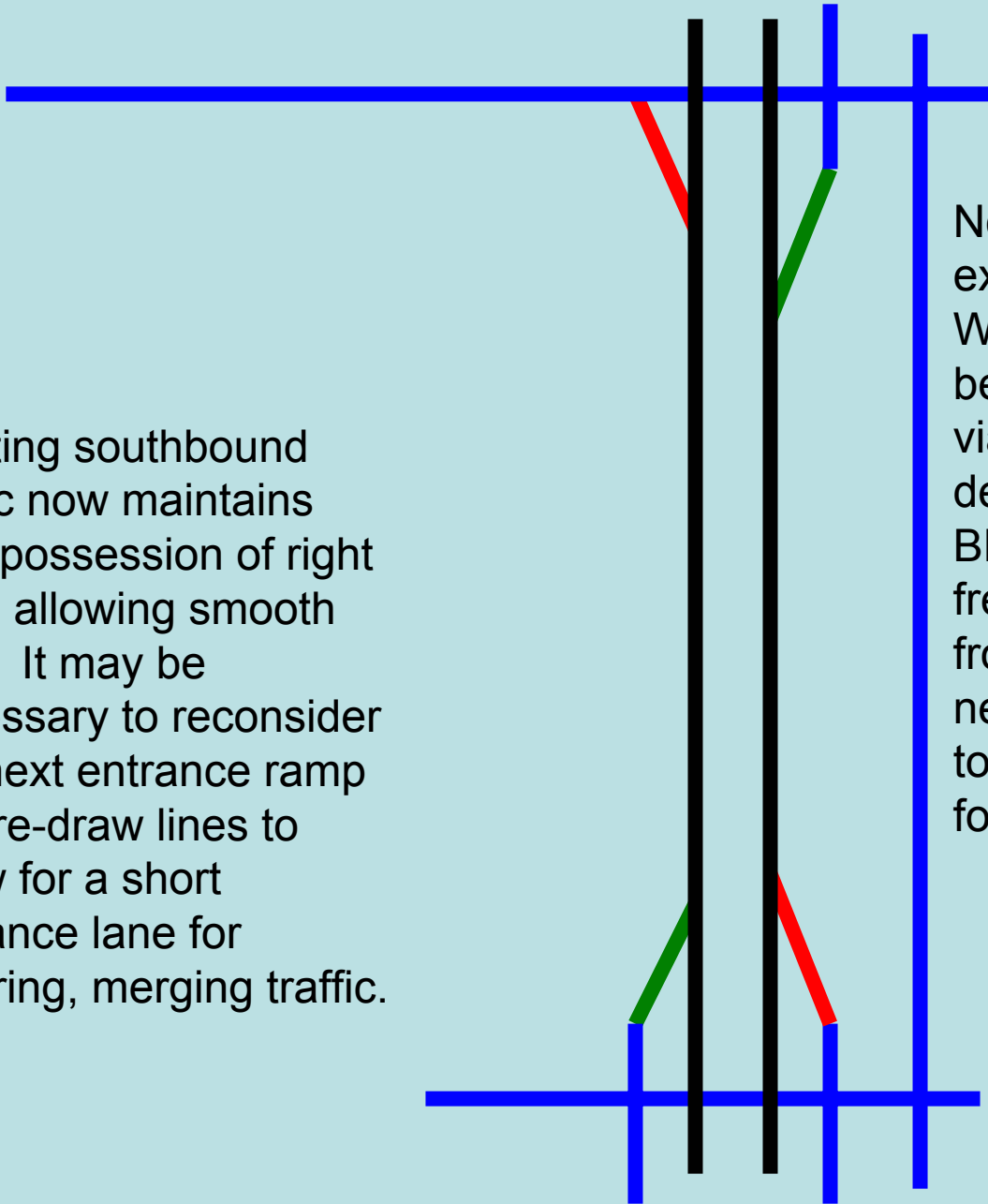
# Solution to Problem in Diagram #1

- Close all of the following:
  - Entrance to southbound freeway from Harry Hines
  - Exit to Harry Hines from northbound freeway
- Purpose:
  - Closing southbound entrance allows existing southbound traffic to have sole possession of right lane
    - Center and Left lanes are not impeded by slow right lane
  - Regal Row entrance to northbound must be left open for access to freeway, but closing exit to Harry Hines and re-directing exiting traffic on Regal Row exit to Harry Hines frees up right lane
    - Also prevents introducing traffic to the freeway before removing traffic via exits
    - May need to re-draw freeway lines to give short entrance lane for merging, entering traffic

Diagram #2

Existing southbound traffic now maintains sole possession of right lane, allowing smooth flow. It may be necessary to reconsider the next entrance ramp and re-draw lines to allow for a short entrance lane for entering, merging traffic.

Northbound traffic desiring to exit to Harry Hines and the Webb Chapel Extension will be re-routed to Harry Hines via the Regal Row exit, decreasing freeway traffic BEFORE adding traffic to the freeway via the entrance ramp from Regal Row. It may be necessary to re-draw the lines to add a short entrance lane for entering, merging traffic.



# Analysis of Diagram #2

- Southbound
  - No new traffic introduced to southbound until after Regal Row
  - Entrance after Regal Row to southbound freeway may require short entrance lane
- Northbound
  - Northbound traffic is removed from freeway BEFORE adding new traffic
  - Entrance after Regal Row to northbound freeway may require short entrance lane