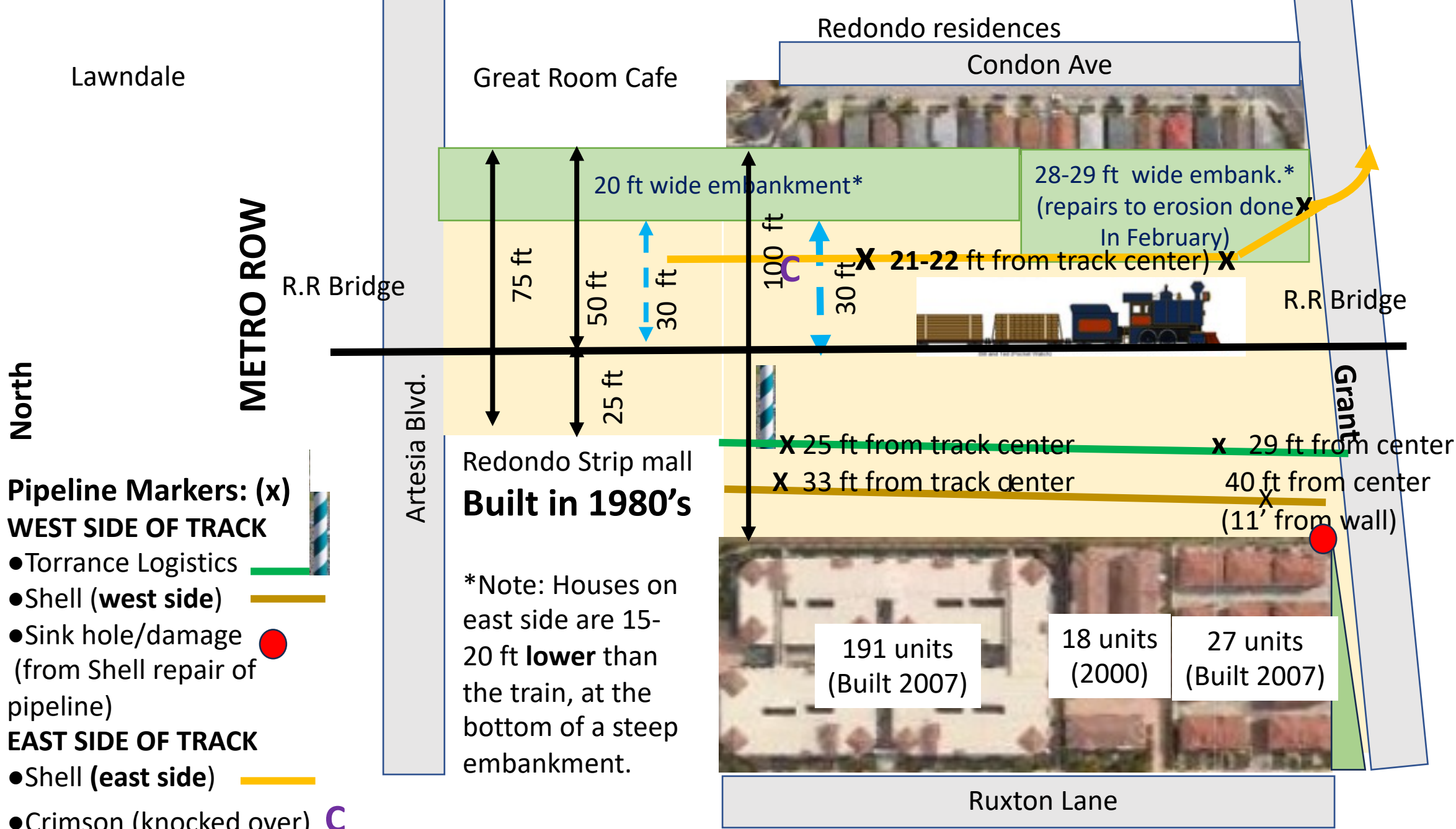


Diagrams between Artesia and Grant

The mess of pipelines in Redondo,
emphasizing the relocation of the freight train for “The Project”



Current freight train layout, showing the embankment, and the pipeline locations

For the "proposed project" freight train moves 20-25 ft closer to condos, starting at edge of Breakwater Village, and goes over a new bridge.

North

METRO ROW

R.R Bridge

Artesia Blvd.

Great Room Cafe

Redondo residences

Condon Ave

20 ft wide embankment

28-29 ft wide embank. (repairs to erosion done In February)

75 ft

50 ft

30 ft




100 ft

30 ft



X 21-22 ft from track center) X

NEW R.R Bridge

Pipeline Markers: (x)
WEST SIDE OF TRACK

- Torrance Logistics 
- Shell (west side) 
- Sink hole/damage (from Shell repair of pipeline) 

EAST SIDE OF TRACK

- Shell (east side) 
- Crimson (knocked over) 

Redondo Strip mall
Built in 1980's

ALL pipelines would be moved to West side in "Proposed Project." See next page.

X 25 ft from track center

X 29 ft from center

X 33 ft from track center

40 ft from center

(11' from wall)

191 units
(Built 2007)

18 units
(2000)

27 units
(Built 2007)

Ruxton Lane

Redondo layout of freight train shown for "Proposed Project", Page 1

All four pipelines would be moved. *

North

METRO ROW

R.R Bridge

Artesia Blvd.

Great Room Cafe

Redondo residences

Condon Ave

20 ft wide embankment

28-29 ft wide embank. (repairs to erosion done In February)

75 ft

50 ft

30 ft

100 ft

30 ft

X 21-22 ft from track center

NEW R.R Bridge

Redondo Strip mall

Built in 1980's

* Pipelines would be moved to a narrow strip by the condos. Right where the sinkhole was formed!

This also violates pipe separation rules

X 25 ft from track center

X 29 ft from center

X 33 ft from track center

40 ft from center

All four pipelines relocated here. (Right on top of sink hole)

191 units (Built 2007)

18 units (2000)

27 units (Built 2007)

Ruxton Lane

Pipeline Markers: (x)

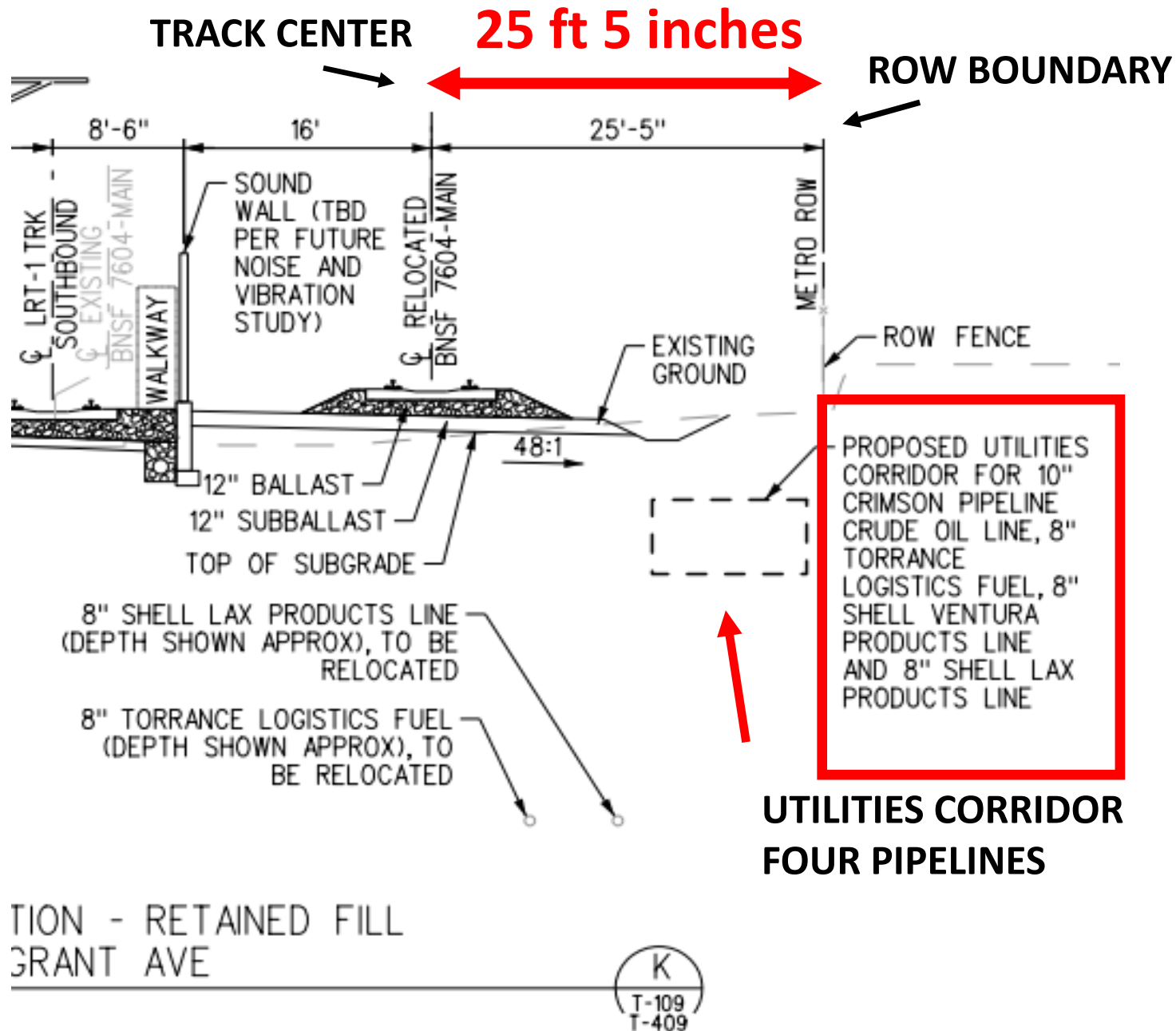
WEST SIDE OF TRACK

- Torrance Logistics
- Shell (west side)
- Sink hole/damage (from Shell repair of pipeline)

MOVED FROM EAST SIDE

- Shell (east side)
- Crimson (knocked over)

Redondo layout of freight train and relocated pipelines shown for "Proposed Project"



Does anyone in this room possibly think that all 4 pipelines are going to be at a distance **greater than 25 ft** from track center, as required by BNSF regulations?

Then, take "The Project" OFF the table.

Pipe regulations

- BNSF regulations on Pipe Separation
- <https://www.bnsf.com/bnsf-resources/pdf/about-bnsf/utility.pdf>



Pipeline Separation

- Pipelines
 - i. Any pipeline installation paralleling BNSF property shall be within ten (10) feet of property line and a **minimum of forty (40) feet from track.**
 - ii. **If the pipeline is proposed to be located forty (40) feet or less from centerline of nearest track, the pipeline shall be encased in a steel pipe subject to approval from BNSF. No pipe may be placed closer than twenty-five (25) feet from centerline of any track. Pipe must be buried with a minimum cover of six (6) feet.** If less than minimum depth is necessary because of existing utilities, water table, ordinance or similar reasons, the line shall be rerouted.