

Project Information Evolution

Example: Noise Analysis



Project Phase

Phase 1

Alternatives Identification

Rail Alignment

- Corridor A
- Corridor B
- Corridor C

Rail Technology/Vehicle Type

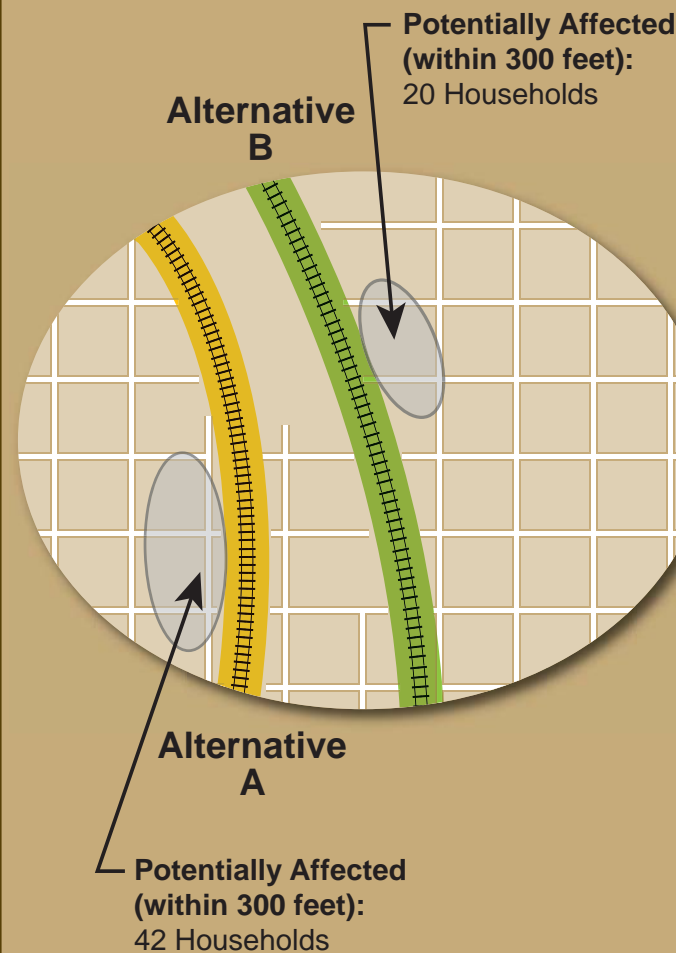
- LHC
- DMU
- EMU
- LRT
- Streetcar

No Action

Baseline or Transportation System Management alternative

Phase 2

Alternatives Screening

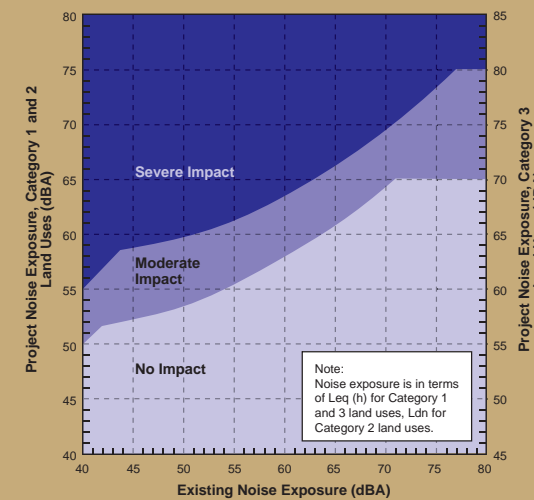


Phase 3

Preparation of DEIS and FEIS

- 1 Existing noise measurements
- 2 Predict 2030 No Action and Build noise levels (using FTA and FRA models):
 - Diesel exhaust noise
 - Cooling fan noise
 - Wheel/rail interaction noise
 - Horns and crossing gate bells
 - Bells approaching stations
 - Station noise (buses idling, autos, PA systems, idling engines)

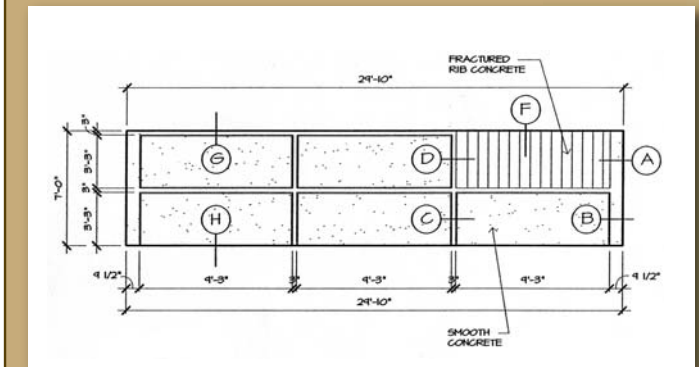
- 3 Apply FTA noise impact criteria



- 4 Determine if mitigation is warranted
 - Areas of moderate and severe impact

Phase 4

Final Design



Noise mitigation is included as appropriate

- Vehicle and equipment noise specifications
- Resilient or damped wheels
- Vehicle skirts
- Wide turn radii
- Special at-grade crossing treatments
- Regular wheel maintenance
- Sound barriers

Level of Noise Information Known and Used:

- Not used

- Numbers of households within 300 feet of particular alignment

- Noise monitoring
- Number of trains, autos, buses
- Train speed
- Track type

- Final drawings
- Final specifications