



NORTH RED & PURPLE LINE VISION STUDY (Addison to Linden)

1. Review Exhibits On Display

2. Talk With CTA Staff

3. Provide Us With Your Input About:

- **Service Issues**
- **Corridor Issues**
- **Safety Issues**
- **Neighborhood Planning Issues**
- **Environmental Issues**



PROJECT: OVERVIEW

What:

- Built in 1920's
- 71,000 riders each weekday
- 9 mile corridor
- 21 stations
- 71 viaducts (bridges)
- Signals and power systems

Why:

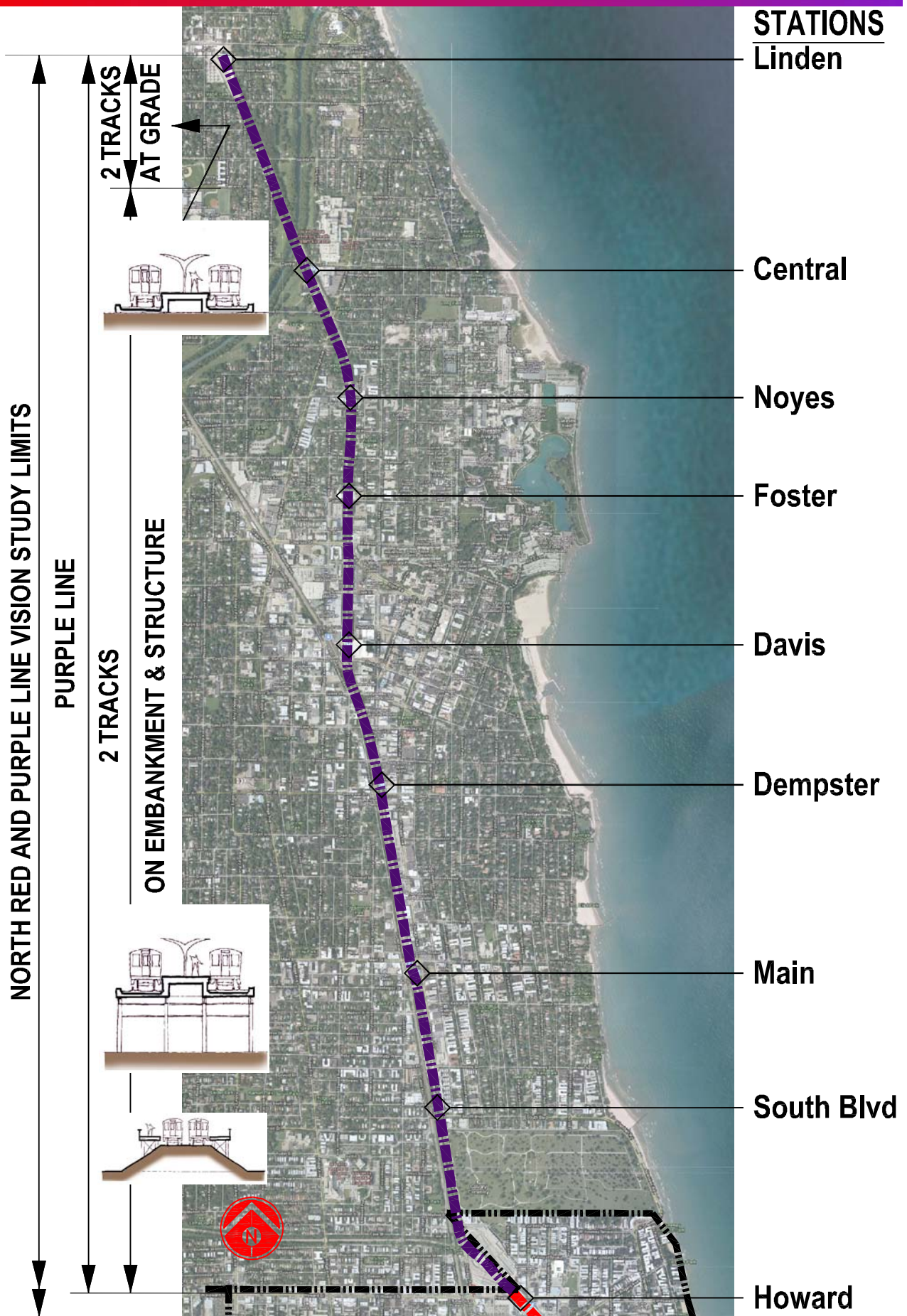
- Create Vision for transforming 1920 system to 2020 system
- Include public feedback in that Vision
- Take necessary steps to prepare for future project

Scope:

- Transit service
- Infrastructure improvements
- Station reconstruction

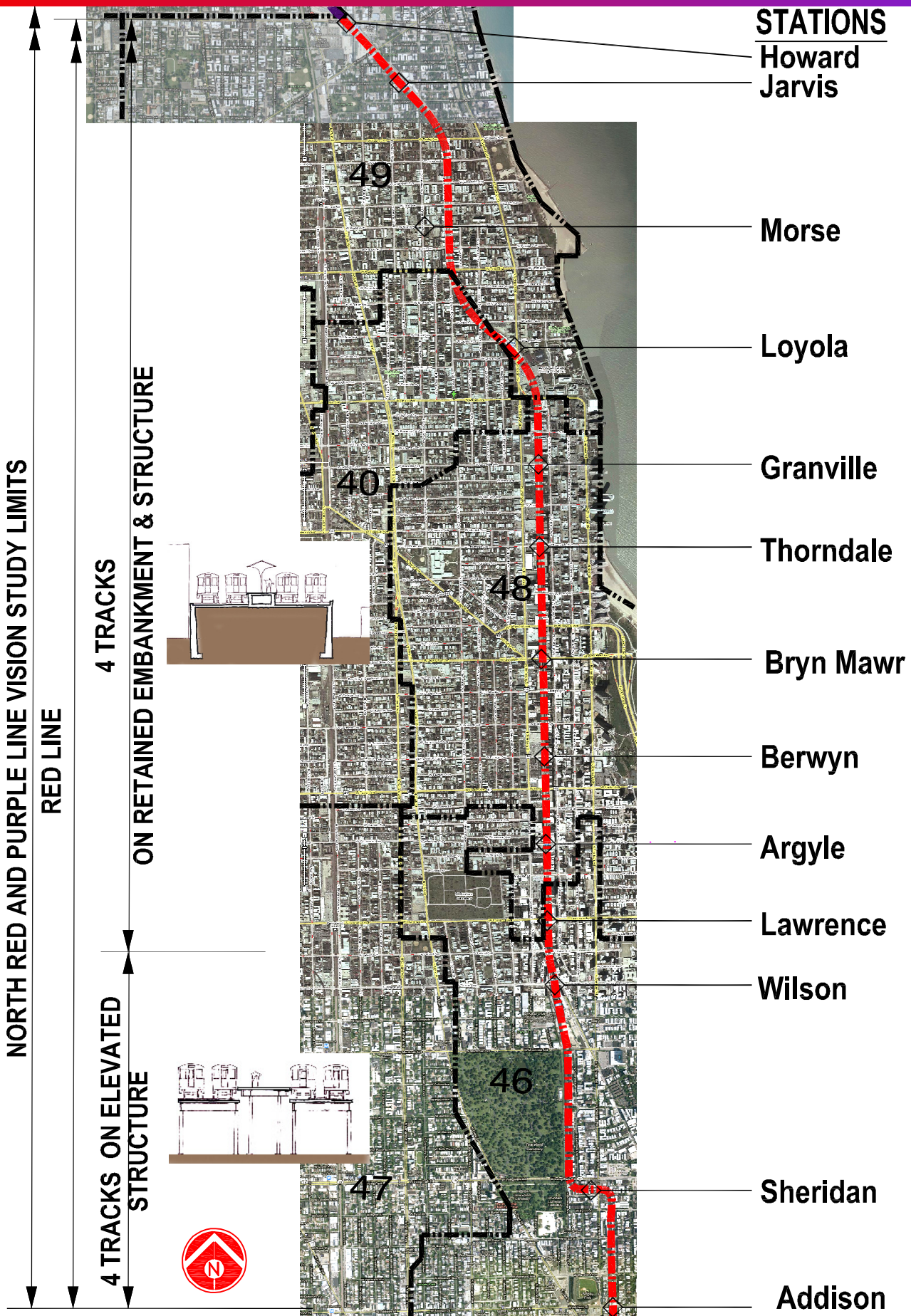


PROJECT: SCOPE



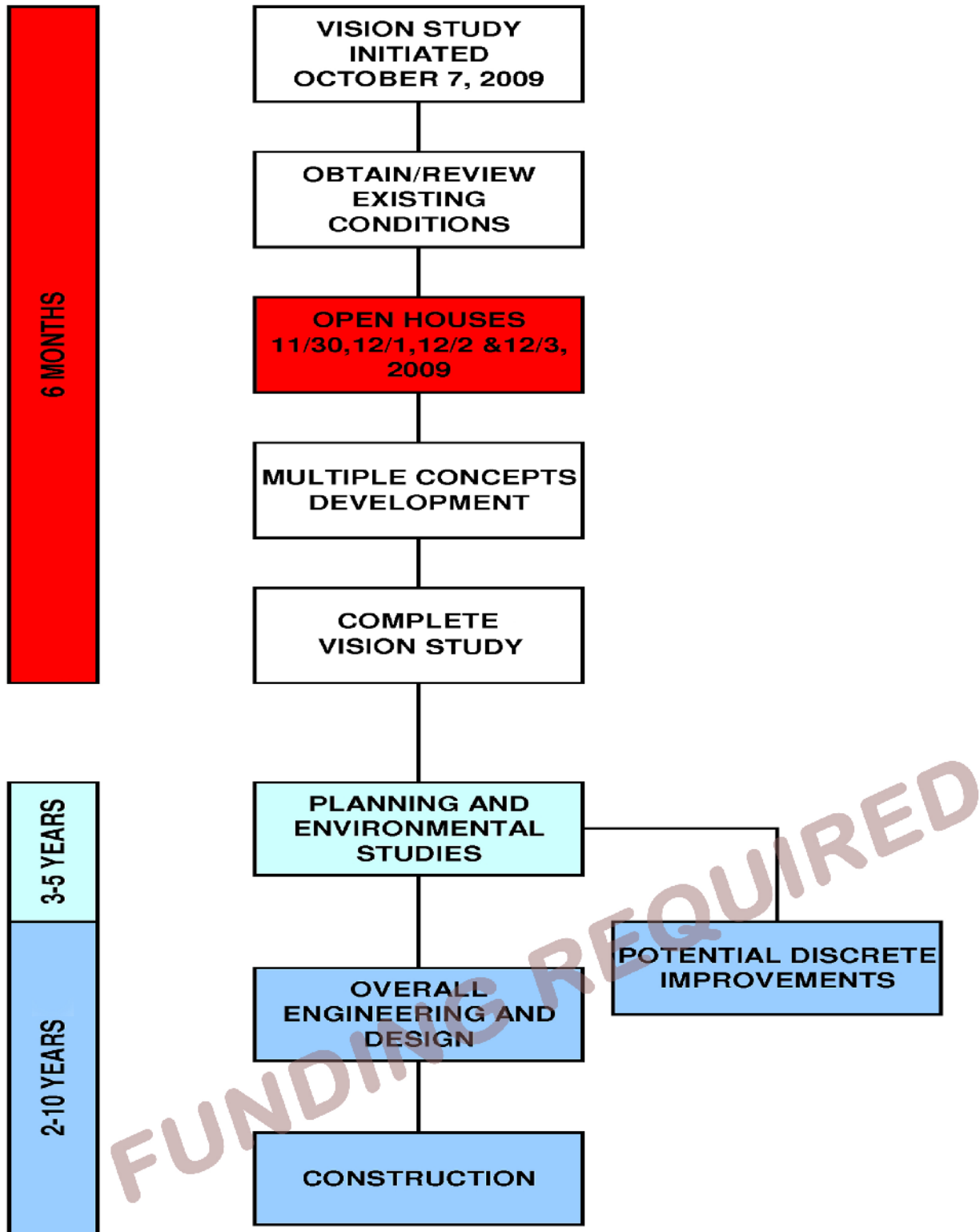


PROJECT: SCOPE





PROJECT: SCHEDULE





PROJECT: CHALLENGES & OPPORTUNITIES

Project Challenges:

- Deterioration of existing conditions
- Coordinated service during construction
- Limited right-of-way (ROW)
- Identify funding source

Project Opportunities:

- New stations
- ADA Accessibility
- Improved viaducts
- Maintenance of reliable service
- Improved service
- Transit-oriented development (TOD)

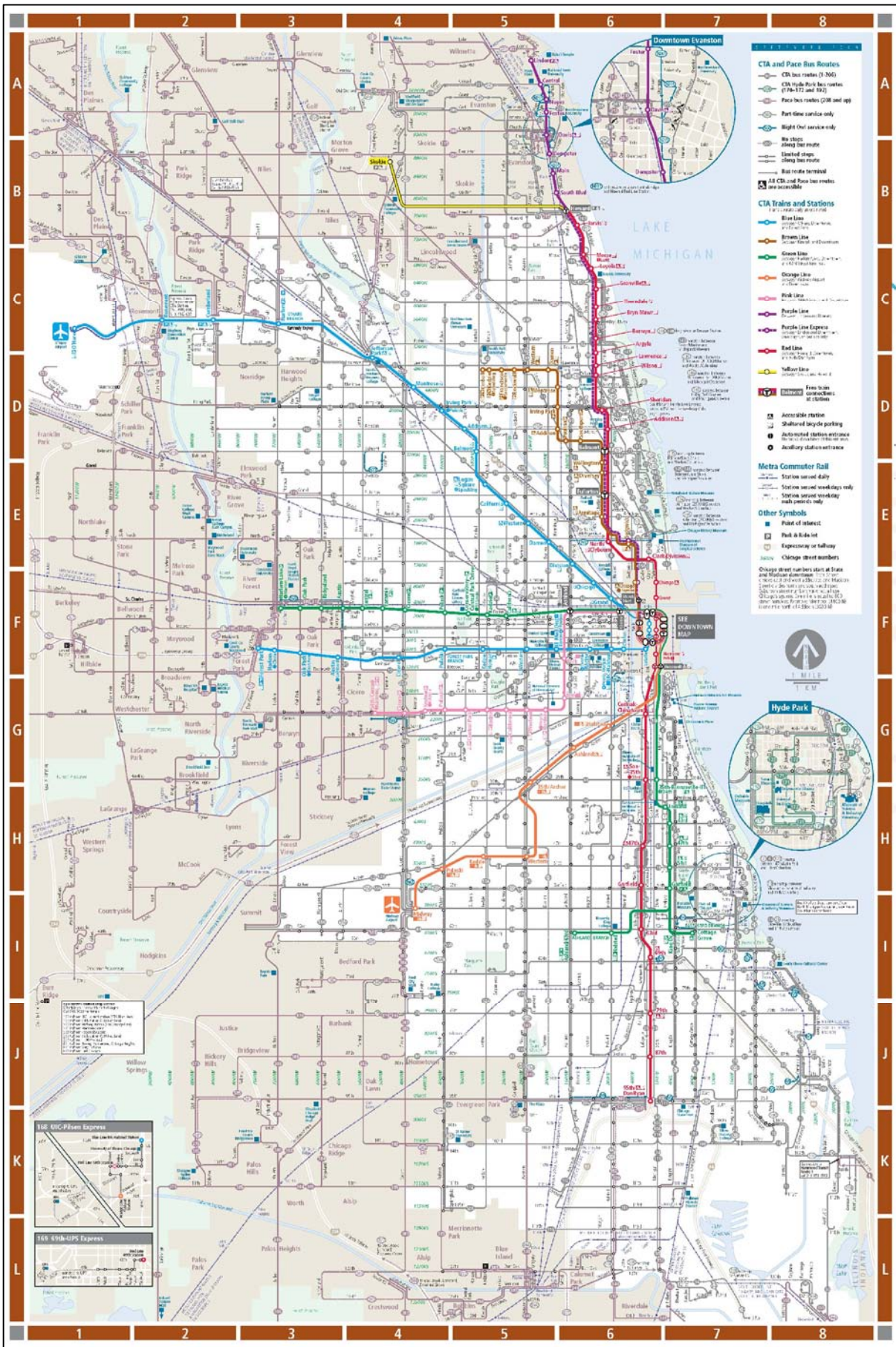


NEXT STEPS

- Provide your comments
- Review comments
- Develop concepts for service and stations
- Complete Vision Study (publish Spring 2010)
- Seek project support and funding



TRANSIT: BUS AND RAIL SYSTEM





TRANSIT: AREA TRANSIT SERVICE





TRANSIT: ACCESS AND CONNECTIONS

Station	Population w/in 1 mi.	Avg. Weekday Ridership	Connecting Bus Routes
Linden	3,424	1,120	Pace: 421, 422, 423
Central	2,952	890	201
Noyes	3,838	680	None
Foster	5,229	790	None
Davis	5,538	3,850	93, 201, Pace: 205, 208, 213, 250
Dempster	4,833	800	205
Main	6,892	1,210	205
South Blvd	6,820	770	205
Howard	13,051	6,290	22, 97, 147, 151, 201, 205, 206, Pace: 215, 290
Jarvis	10,732	1,540	None
Morse	17,607	4,400	96, 155
Loyola	14,411	6,160	147, 151, 155
Granville	12,228	3,890	36
Thorndale	11,762	2,870	36
Bryn Mawr	14,756	4,740	36, 84, Pace: 210
Berwyn	10,142	3,400	36, 92, 144, 146 Pace: 210
Argyle	10,574	2,690	36
Lawrence	12,791	3,450	36, 81
Wilson	16,656	6,530	36, 78, 145, 148
Sheridan	16,471	5,270	X9, 80, X80, 151
Addison	11,516	9,660	152, walk to 22
Belmont		11,490	77, walk to 22



Metra
Metropolitan
Northwestern
Transit Authority



Park & Ride



Accessible Station



Transfer Station

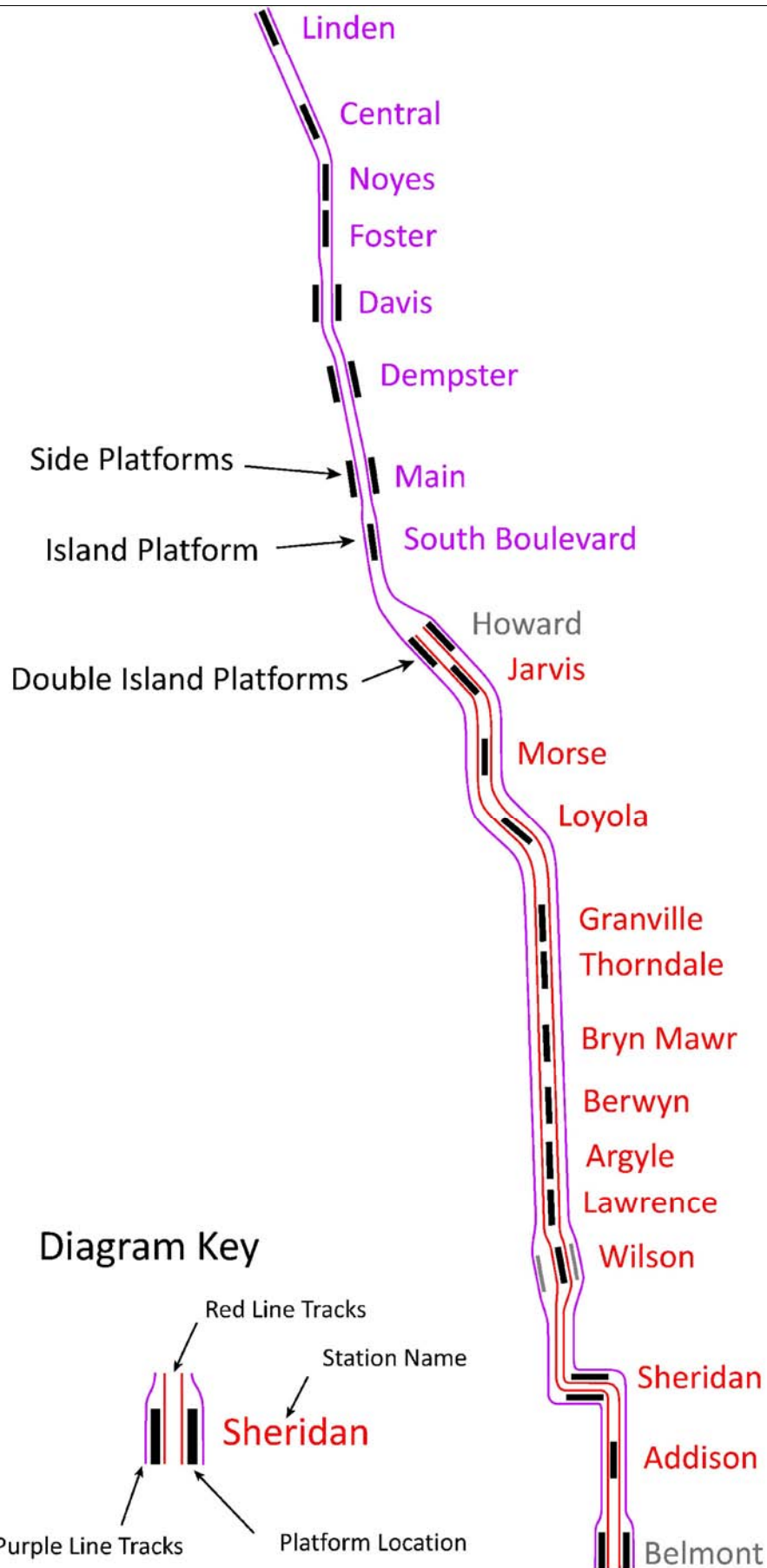


Sheltered bicycle
parking

Coming Soon

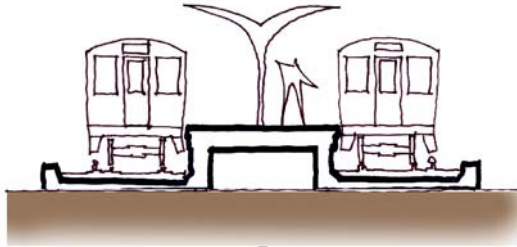


TRANSIT: TRACK AND PLATFORM CONFIGURATION

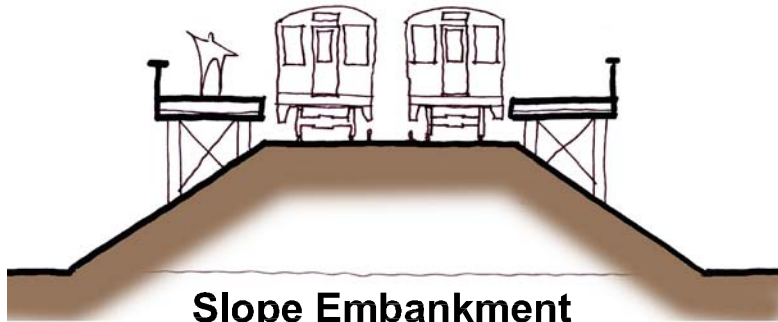




INFRASTRUCTURE: TYPICAL CROSS SECTIONS



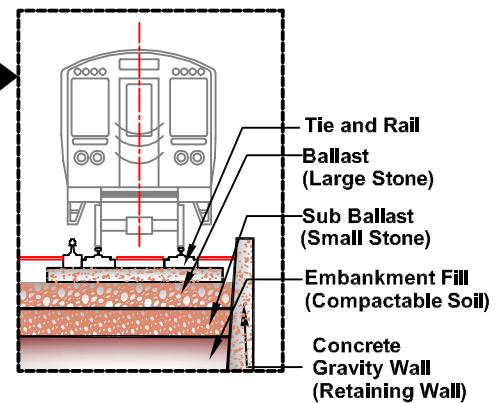
At Grade
(Example Linden)



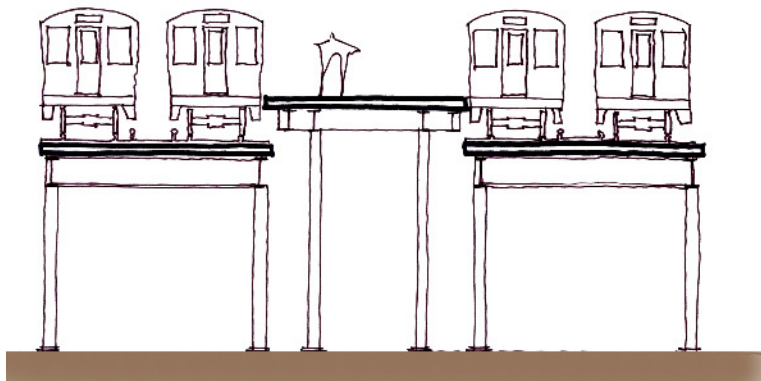
Slope Embankment
(Example Dempster)



Wall Embankment
(Example Bryn Mawr)



Enlarged Section



Elevated Structure
(Example Sheridan)



INFRASTRUCTURE: TRACK

ISSUES:

- SLOW ZONES
- SERVICE QUALITY
- SAFETY ASSURANCE



**AGING TIES
& WORN BALLAST**



**REPLACING AGING OPEN
DECK TRACK AND
FOOTWALK**

TRACK PROFILE IRREGULARITIES



**SPECIAL TRACKWORK
(DOUBLE CROSSOVER)**



**AGING TIES
IN WORN BALLAST
LACKING DRAINAGE**



INFRASTRUCTURE: STRUCTURES



CRUMBLING CONCRETE



**TEMPORARY SUPPORTS
OF PIER & PARAPET WALL**

ISSUES:

- SLOW ZONES
- CLEARANCE ON CITY STREETS



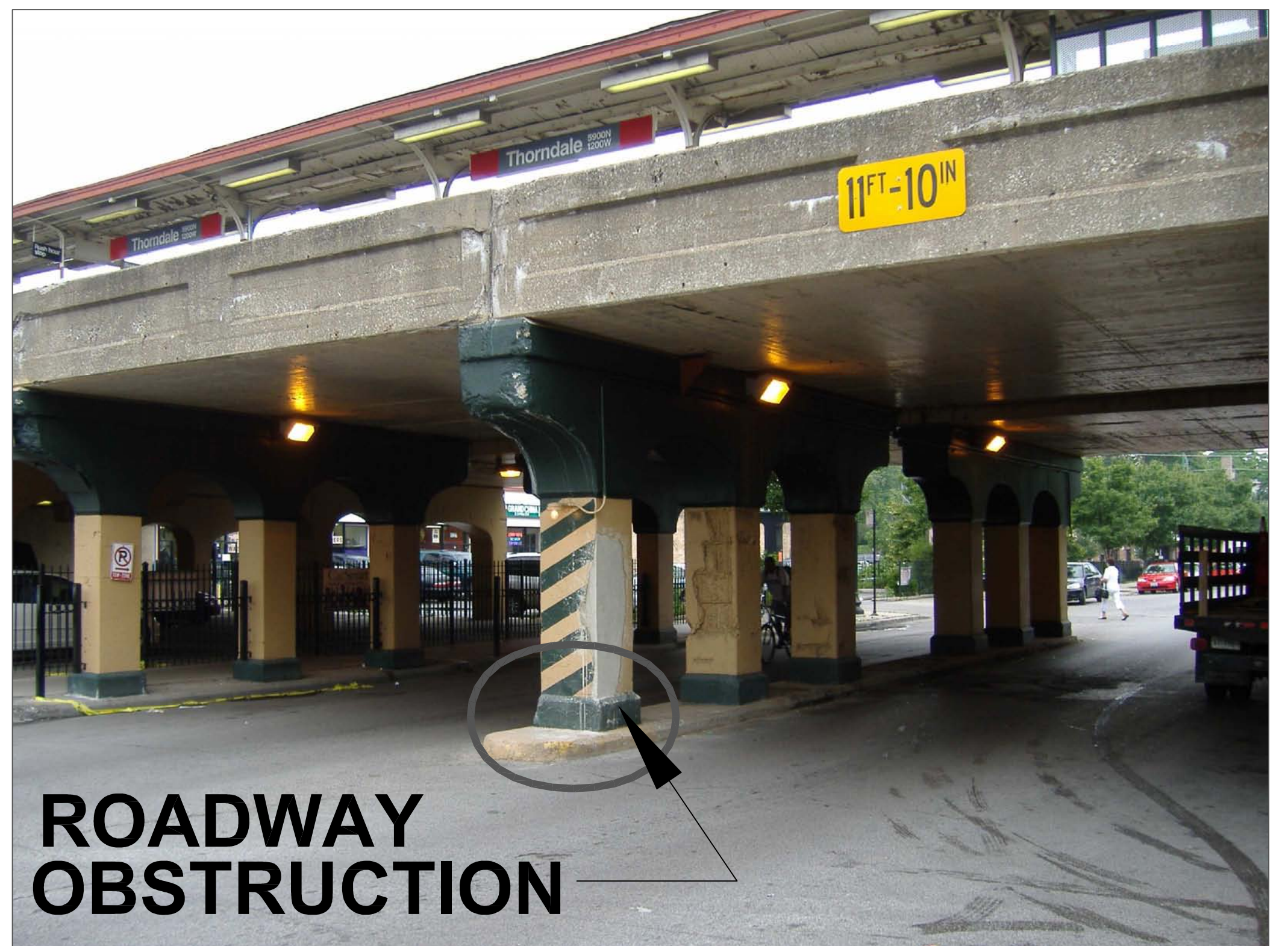
CORROSION



**SUBSTANDARD
VERTICAL CLEARANCE**



TEMPORARY VIADUCT SHORING

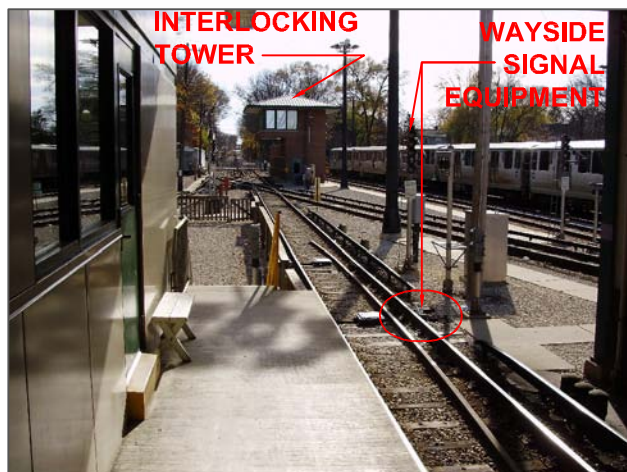


**ROADWAY
OBSTRUCTION**

**SUBSTANDARD
HORIZONTAL CLEARANCES**



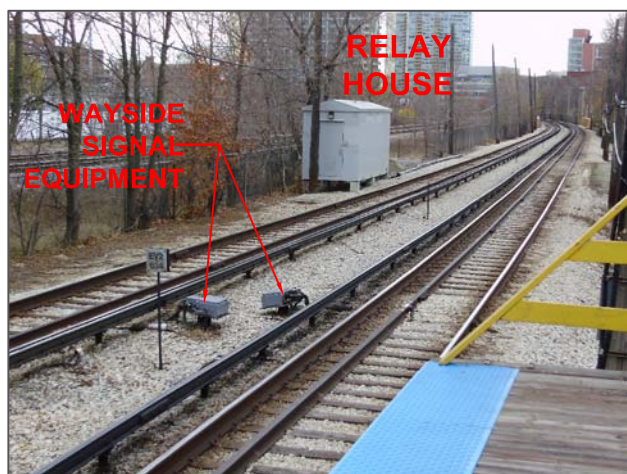
INFRASTRUCTURE: SIGNALS



LINDEN TERMINAL

ISSUES:

- RELIABILITY
- SAFETY ASSURANCE
- SERVICE FLEXIBILITY
- SERVICE CAPACITY
- CONSTRUCTABILITY



SIGNAL EQUIPMENT



SWITCH CONTROL PANEL



INTERLOCKED CROSSOVER



HOWARD INTERLOCKING PLANT



INFRASTRUCTURE: POWER

ISSUES:

- RELIABILITY
- CAPACITY
- INCREASED POWER REQUIREMENTS
- EXCESSIVE DISTANCE BETWEEN SUBSTATIONS
- AGING EQUIPMENT

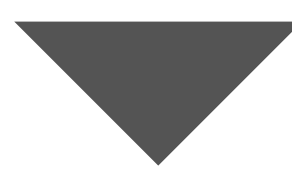


**COMMONWEALTH EDISON
HIGH VOLTAGE
POWER LINES**



SUBSTATION

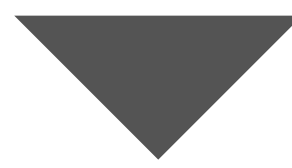
**POWER
FURNISHED
BY
COMMONWEALTH
EDISON
12,500 VOLTS
AC**



**CTA
SUBSTATIONS
CONVERT
POWER TO
600 VOLTS DC**



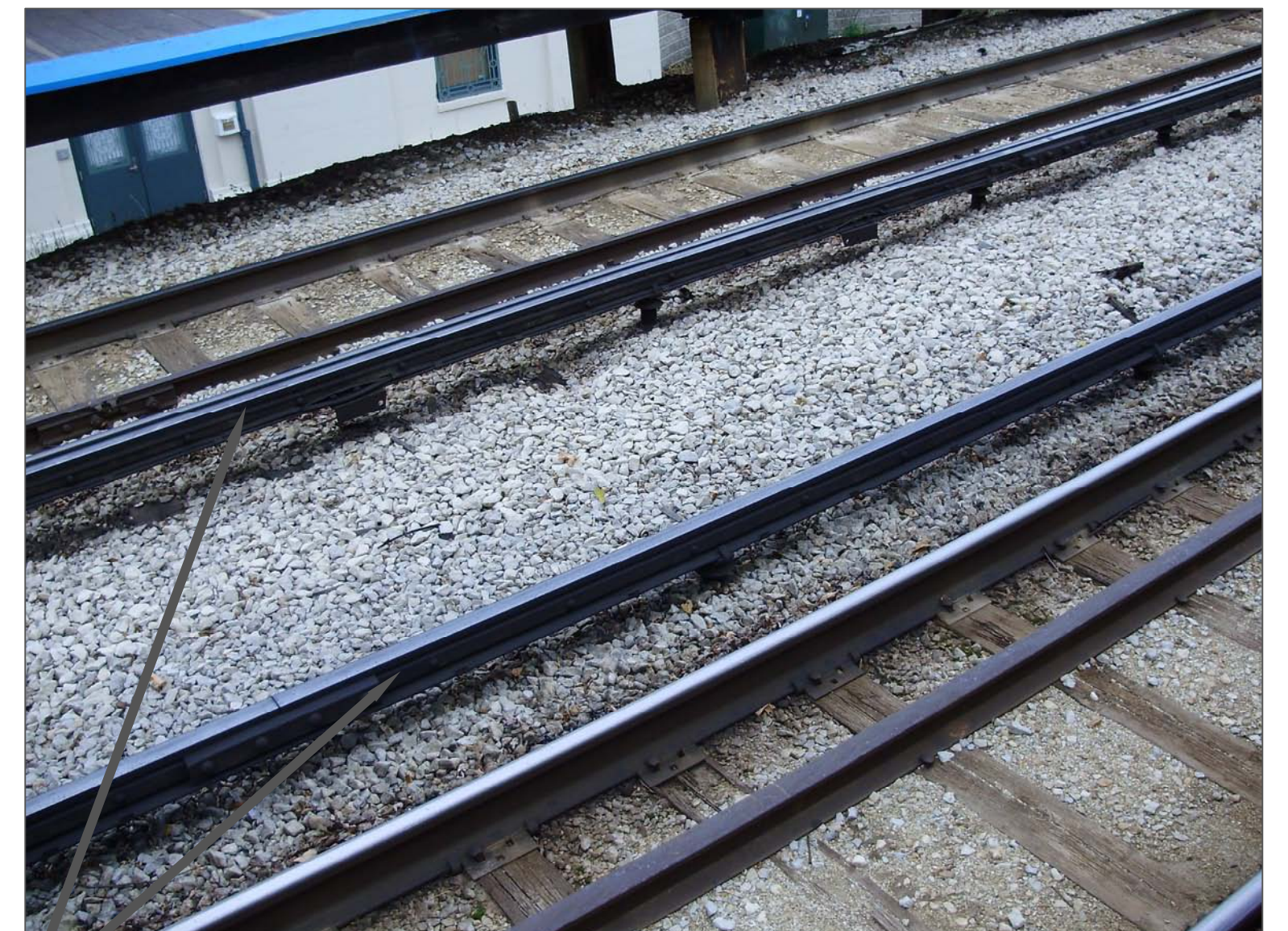
**TRANSMISSION
CABLES FEED
POWER TO
3rd RAIL**



**POWER IS
PICKED UP
BY RAIL CARS
THRU
TROLLEY
SHOES
IN CONTACT
WITH
3rd RAIL**



FEEDER CABLES



**ELECTRIFIED CONTACT
RAILS (3rd RAILS)**



STATIONS: ISSUES

- **Customer comfort and convenience**
- **Narrow/ deteriorating platforms**
- **ADA accessibility**
- **Leakage/ water damage to station and canopy**
- **Outdated utilities**
- **Outdated communications**
- **Deteriorating and difficult to maintain materials**



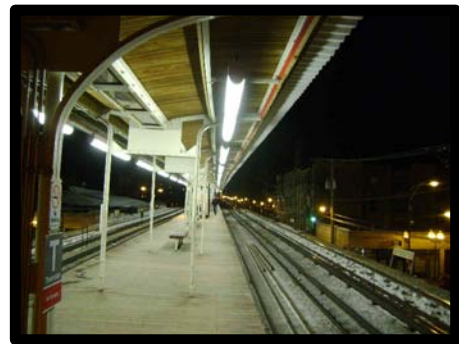
STATIONS: TYPICAL INTERIM IMPROVEMENTS

TYPES OF INTERIM IMPROVEMENTS:

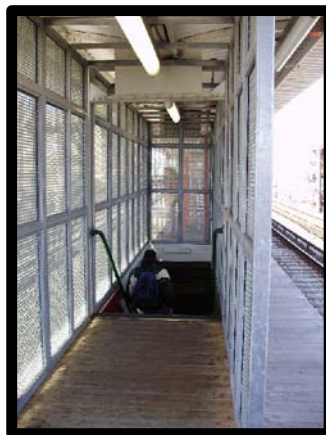
- NEW PLATFORM LIGHTING
- STATION CEILING LIGHTING
- NEW PLATFORM CANOPY
- NEW PLATFORM STAIR ENCLOSURES
- FRESH PAINT
- STAIRS REFURBISHED



NEW STATION



PLATFORM LIGHTING



ANTI-GRAFFITI
STAIR ENCLOSURES



CEILING & LIGHTING



PAINT