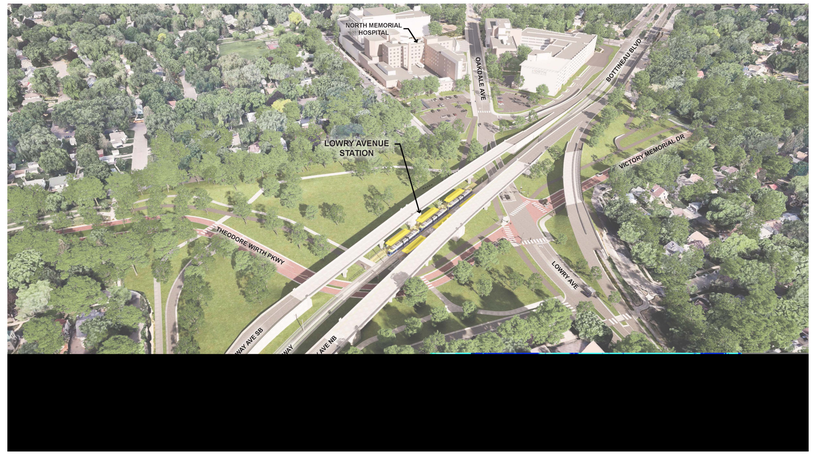
LOWRY AVENUE STATION VISUALIZATIONS
MUNICIPAL CONSENT DESIGN, AT-GRADE STATION AND CROSSING (OPTION A)

This is the current design for the Lowry Avenue Station area. Station and LRT tracks are at grade, with at-grade crossings of the Wirth/Victory Memorial Parkway, Grand Rounds Trail, and Lowry/Oakdale Avenue.

- At-grade station is more visible and accessible to the community
- Creates additional parkland
- Builds on existing infrastructure (bridges)
- Cost efficient
- Parkway and trail users along Theodore Wirth Parkway may encounter a gate crossing, but experience is largely unchanged
  - » Gate operations are 45 seconds, 25 second average delays if encountered
  - » Gates are up about 90% of the time
- May modify EMS response route and timing



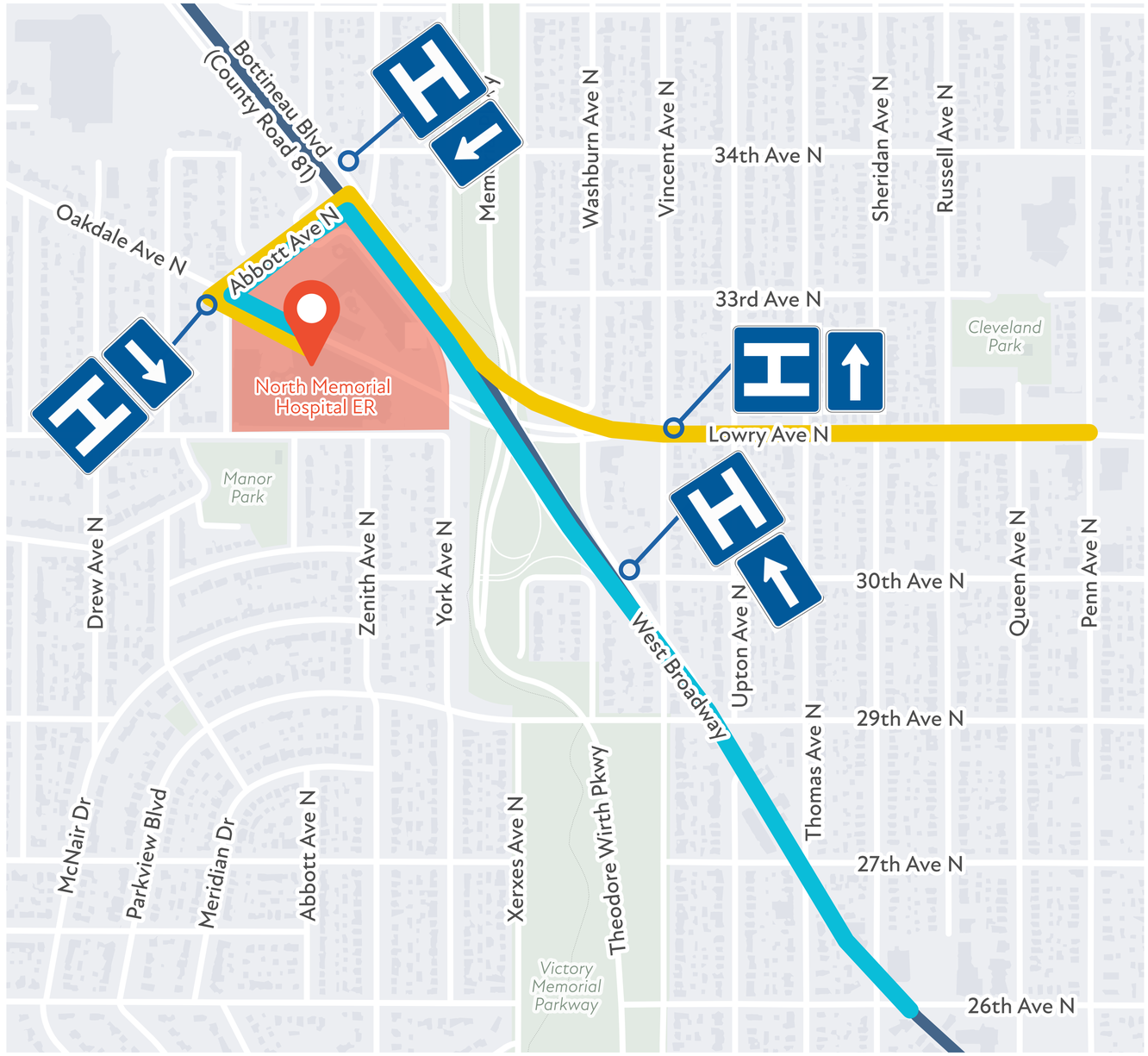
COMMENTS

SUMMARY OF OPTIONS EVALUATED

	Option A – Municipal Consent Design	Option B	Option C	Option D1	Option D2	Option E	Option F	Option G	Option H
Station accessibility, safety, experience	At-grade station maximizes accessibility, integrated station within park provides positive user experience, visible platform improves safety	Underground station not visible from surrounding area, poor transit rider experience, no eyes on platform creates safety concerns	Station in trench and less visible from surrounding area, poor transit rider experience, less eyes on platform creates safety concerns	Elevated station requires several new bridges to get transit riders to platform	Elevated station requires several bridges to get transit riders to platform	At-grade station maximizes accessibility, integrated station provides positive park user experience, visible platform improves safety	At-grade station maximizes accessibility, integrated station provides positive park user experience, visible platform improves safety	Elevated station requires several bridges to get transit rider to platform	At-grade station maximizes accessibility, integrated station provides positive park user experience, visible platform improves safety
Park and trail impacts	Requires rerouting of parkway and trail, at-grade gated crossings of trail and parkway next to station. Creates additional park space.	Parkway and trails do not cross LRT	Parkway and trails do not cross LRT	Parkway and trails do not cross LRT	Parkway and trails do not cross LRT	Parkway and trails go under LRT in trench	Parkway and trails do not cross LRT or Lowry	Additional bridge detracts from park experience	Parkway and trails do not cross LRT or Lowry
Hospital traffic, access	Gated crossing at Oakdale/ Lowry may create average of 25 second delay on 10% of trips, could be mitigated by alternate wayfinding/routing for hospital	No gated crossings, no interruption to hospital access	No gated crossings, no interruption to hospital access	No gated crossings, no interruption to hospital access	No gated crossing of LRT, no interruption to hospital access	No gated crossing of LRT, no interruption to hospital access	No gated crossing of LRT, no interruption to hospital access	No gated crossing of LRT, no interruption to hospital access	No gated crossings, no interruption to hospital access
Area traffic operations, connectivity	Maintains existing road network	Roadway connections same as existing	Roadway connections same as existing	Adds a traffic signal south of the station at Washburn	Adds two LRT crossings on West Broadway, crossing at angle creates driver safety concerns	No parkway connection at Lowry/County Road 81, good connection otherwise	No parkway connection to Lowry/County Road 81, two LRT crossings on W Broadway	Maintains existing roadway network	No parkway connection at Lowry/County Road 81, good connections otherwise
Neighborhood connectivity	Station provides convenient access for neighborhoods	Underground station disconnected visually from surrounding neighborhood	Station in trench and disconnected visually from surrounding neighborhood	Elevated station disconnected from neighborhood	Elevated station disconnected from neighborhood	Station provides convenient access for neighborhoods	Station provides convenient access for neighborhood, less roadway crossings to access station	Elevated station disconnected from neighborhood, farther distance for Minneapolis neighborhood	Station provides convenient access for neighborhoods, less roadway crossings to access station
Impacts to new bridges	Keeps existing three bridges but modifies southbound County Road 81 bridge to reduce overall width	Southbound and northbound County Road 81 bridges are removed and replaced	Southbound and northbound County Road 81 bridges are removed and replaced	Southbound County Road 81 bridge is removed and replaced	Southbound County Road 81 bridge is removed and replaced	Maintains existing three bridges; southbound County Road 81 bridge is modified to reduce overall width	Northbound County Road 81 and Lowry on-ramp bridges are removed and replaced, existing County Road 81 southbound bridge is re-used	Keeps existing bridges	Northbound County Road 81 and Lowry on-ramp bridges are removed and replaced; keeps existing County Road 81 southbound bridge
Constructability, construction impacts	Less complex foundation construction	Constructability challenges with existing piling and complexity of design, multiple additional years construction duration and disturbance	Constructability challenges with existing piling and complexity of design, multiple additional years construction duration and disturbance	Constructability challenges with existing pilling, moderately complex design	Constructability challenges with existing piling, moderately complex design	Significant construction disruptions/extended duration needed for retaining walls due to extensive construction	Constructability challenges with existing piling and complexity of design, multiple additional years construction duration and disturbance	Constructability challenges with existing piling and complexity of design due to height and length of bridge, multiple additional years construction duration and disturbance	Extensive bridge constructability challenges with existing piling and complexity of design, multiple additional years construction duration and disturbance
Cost	Comparatively lower cost	Very high cost	Very high cost	Comparatively lower cost	Higher cost	Higher cost	Higher cost	Higher cost	Higher cost

Better than option A | About same as option A | Worse than option A

ROUTING TO NORTH MEMORIAL HOSPITAL

MUNICIPAL CONSENT DESIGN, AT-GRADE STATION AND CROSSING (OPTION A)

- To avoid LRT crossing gates, emergency service and personal vehicles driving to and from North Memorial Hospital can use Abbott Ave N via West Broadway/ Bottineau Blvd.
  - » Gates are only expected to be down 10% of the time.
- Hospital wayfinding signage will be installed along the route to guide vehicles.