

Penn Lake Library Refurbishment

# SCHEMATIC DESIGN EXECUTIVE SUMMARY

Hennepin County Project #1005181 • September 11, 2025



prepared for Hennepin County by RoehrSchmitt Architecture LLC 200 Washington Ave N, Suite 300 Minneapolis, MN 55401

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# Core Project Team:

#### HENNEPIN COUNTY LIBRARY DEPARTMENT

Amy Kennedy Fosseen: Library Capital Projects Team Dureeti Gaga: Library Capital Projects Team Ann Woodson-Hicks: Library Capital Projects Team

#### HENNEPIN COUNTY FACILITY SERVICES

Keon Blasingame: Design & Construction Project Manager Joel White: Preservation Senior Operations Manager Doug Nilles: Preservation Project Manager Bekah Padilla: Planning Division, Senior Planner Sara Kunnick: Design & Construction Interiors Lead Thomas Howlett: Engineering Division Project Manager

Vladimir Poveda: Engineer Project Manager Kari Vesel: Senior Facility Operations Manager

#### **ROEHRSCHMITT ARCHITECTURE + INTERIORS**

Chris Schmitt: Project Principal Architecture and Planning

Michael Roehr: Interior Design Principal

Nick Kineke: Project Manager Tyler Kavanaugh: Senior Architect Keppen Kettering: Interior Designer Karianna Larson: Architectural Designer

# Subject Matter Experts: HENNEPIN COUNTY FACILITY SERVICES

Liudmila Trandafilava: Security Director

Elijah Hannah: Security Division Administrative Manager

Chris Robinson: Enterprise Security Manager AJ Van den Berghe: Energy Manager Chris McLinn: HAZMAT / Abatement

Liz Veaderko: Design & Construction Library Section Team Lead

# HENNEPIN COUNTY LIBRARY COMMUNITY ENGAGEMENT

Ali Turner: Library Community Engagement Lead

#### HENNEPIN COUNTY CENTRAL IT

Bret Boyd: Senior IT Administration Brad Rongitsch: Senior IT Administration Jack Langford: Capital Projects Coordinator

### HENNEPIN COUNTY ENVIRONMENT & ENERGY

Dan Wattenhofer: Senior Forester

Kristopher Guentzel: Senior Water Resources Specialist

Ellen B. Sones: Landscape Architect

# Sub-Consultant Team:

#### AUNE FERNANDEZ LANDSCAPE ARCHITECTS

Jason Aune, PLA: Lead Landscape Design Architect Kellen Kirchberg, PLA: Project Landscape Architect

# ENCOMPASS INC STRUCTURAL & ENVELOPE ENGINEERING

Mark Blazevic, PE: Associate Principal Eric Denton, PE: Project Manager

# PIERCE PINI & ASSOCIATES CIVIL ENGINEERING

Kevin Gardner, PE: Civil Engineer

### PROFESSIONAL PROJECT MANAGEMENT

Doug Holmberg: Senior Cost Estimator Cole Holmberg: Senior Cost Estimator

# VICTUS MECHANICAL ELECTRICAL PLUMBING & TECHNOLOGY ENGINEERING

Eric Rodriguez: Partner-in-Charge
Jen Ball: Electrical / Technology Support
Josh Johnson, RCDD: Lead Technology Designer
Mike Bilben: Electrical Engineer of Record
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Som Boualaphanh: Mechanical Engineer of Record
Robert Aschenbrenner, PE: Lead Mechanical Designer

Rita Wehbe: Mechanical Support

Elizabeth Brown, EIT: Mechanical Support

# PROJECT OVERVIEW

The Penn Lake Library has served the community for over 50 years and the library last had major renovation work done in 2003. Penn Lake is a one-story library and was the first free-standing library in Bloomington when it opened in 1970. To improve the patron experience and to better align to HCLIB's 2023 Strategic Plan and 2025 Facility Master Plan; work includes interior refurbishments and upgrades will include changes to the service desk, new shelving, book bins, furniture, finishes, study rooms, space reconfiguration to improve sightlines, improvements to the teen area and the children's area, updated restrooms, and a complete refurbishment of the staff break room. The staff work room/ office spaces were recently refurbished; some minor adjustments are needed in those spaces. New finishes and furniture are needed in the multipurpose room.

With the age of the facility, some critical infrastructure items are reaching their life-cycle point. Infrastructure items that are past their useful life and need to be addressed include: roof needs to be replaced with energy code compliant R-Value; window replacement; building envelope improvements; some glulam beams need to be reinforced; site paving and parking lot replacement; adding EV chargers for patron vehicles; stormwater drainage modifications that include a reduction of hardscape; and HVAC replacements or modifications.

The asset preservation scope will also include improvements necessary to address building code compliance requirements, security upgrades, to follow the American Disabilities Act, and to meet current county building standards.

Climate action priorities will be part of the scope of work as well. There are many opportunities to incorporate sustainable practices on this site, including the incorporation of a bioswale or tree trench in the parking greato intercept runoff, reduction in overall pavement and/or inclusion of pervious pavement to reduce runoff directly to street, and incorporating alternatives to conventional turf.

# PROJECT GOALS

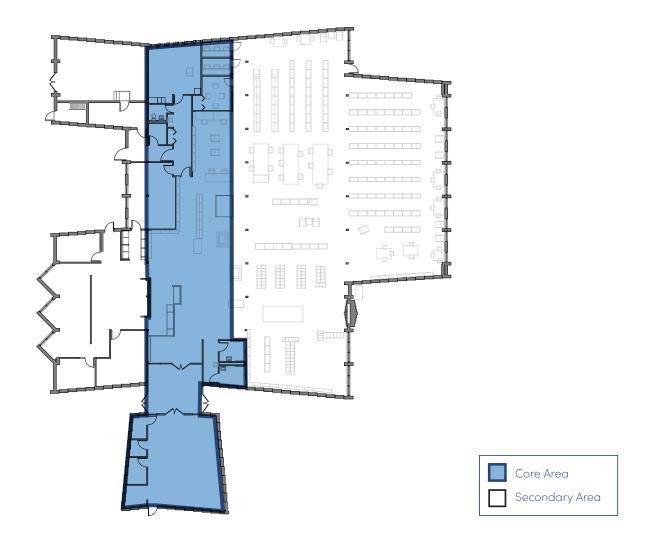
The renovation of the Penn Lake Library will look to accomplish the following goals:

- Create a library that is open and flexible, with a welcoming environment designed to meet the learning and information needs of the community
- Create diverse and flexible spaces to be utilized by patrons
- Create a more visible building entry
- Create a beautiful renovation that highlights the defining features of the building, while remaining highly functional and maintainable
- Where feasible, implement sustainable solutions in alignment with Hennepin County's Climate Action Plan

# SUSTAINABILITY

The design team is committed to implementing Minnesota Buildings, Benchmarks & Beyond Version 3.2r02 (B3) sustainable practices to the extent possible while meeting project scope, schedule, and budget. B3 guidelines will be adhered to for site and stormwater alterations. The project scope currently includes the following strategies:

- Using high efficiency heating and cooling systems with built-in energy recovery
- Installing high efficiency toilets (HET) and WaterSense listed per EPA
- LED lighting and EnergyStar equipment to further minimize electric energy use
- Lighting controls with occupancy and vacancy sensors where required by code
- Utilizing daylight from the exterior window and storefront assemblies as part of more efficient lighting design
- Improving the thermal performance of the envelope by installing insulation above the roof deck and using insulated glass in storefront assemblies
- Using materials that are durable and low maintenance
- Where possible, using local and recycled/renewable materials, including low VOC content
- Provide an open flexible floor plan designed to accommodate change
- Where feasible salvage, refinish and reuse existing furniture



# CORE VS. SECONDARY AREAS

To coordinate design scope and budget, the design team identified two types of spaces based on the level of renovation they are undergoing; Core and Secondary. Core areas have a higher level of intervention and will have reorganized partition layout, new finishes, and millwork supporting the functions of the library patrons and staff. Secondary areas have a minor level of intervention and will maintain similar partition layouts and receive new finishes.

# SCHEMATIC DESIGN PROCESS

Building upon the Pre Design Report completed in October 2025, the Schematic Design Phase kicked off in April 2025. Bi-weekly meetings were held with the broader Hennepin County team which provided dedicated time for all design team collaborators to present and allow for project discussion. Meeting participants were coordinated by the Hennepin County Design & Construction Division Project Manager which included representatives from the library department, facility services, and various subject matter experts.

Based on the scope of work that has been determined amongst the full project team in the schematic design phase, the design team prepared a set of pricing documents (including drawings and detailed narratives) for the cost estimating team at PPM to capture the overall construction cost of the current project scope. The project costs and overall schedule will be detailed later in this report.

# PROGRAM SUMMARY

AREA SUMMARY		PROGRAM SPACE		SF
ENTRY AREA				1,326
	01	Vestibule		413
	02	Entry Lobby		108
ALEETING AND CATHERING	03	Reserves		805
MEETING AND GATHERING	0.4	C i D		2,085
	04	Community Room		719
	05	North Reading Room		231
	06	East Reading Room		789
ADULT SERVICES	07	Study Rooms		346 <b>3,939</b>
ADULI SERVICES	08	Adult Collections		3 <b>,939</b> 3,247
	09	Computers/ Work Counter		5,247 668
	10	Copier Area		24
	10	Copiei Ared		381
	11	Teen Collections		225
	12	Computers		156
CHILDREN SERVICES	· <u>-</u>	Comparero		1,797
	13	Childrens Collections		1,351
	14	Computers		65
	15	Kidzibits/ Play Area		242
	16	Reading Lounge		139
STAFF SPACES				2,469
	17	Customer Service Desk		169
	18	Kitchenette		108
	19	Work Room		1,261
	20	AMH Room		264
	21	Office		264
	22	Training Room		51
	23	Restroom		67
	24	Break Room		285
BUILDING SUPPORT				1,738
	25	Mechanical		592
	26	Electrical		154
	27	MEP Room		70
	28	Roof Access		68
	29	Storage		149
	30	Hall		300
	31	Public Restrooms		144
	32	Vestibule		113
	33	Janitorial		42
	34	IT MDF Room		106
			Overall Net SF	13,735 SF

Overall Net SF 13,735 SF

#### **Entry Area**

- Vestibule
- Community Information Board Collections
- Book Return
- Materials Display
- Checkout Stations
- Reserves

# **Meeting and Gathering**

- Meeting Rooms
- Study Spaces for quiet and collaborative use
- Video Conferencing
- Comfortable Seating
- Story Time Area

#### **Adult Services**

- Computers
- Periodicals
- World Language
- Study/Reading areas
- Comfortable Seating

#### **Teen Services**

- Computers
- Teen Collections
- Teen Collaborative/Study Spaces
- Comfortable Seating

#### **Children Services**

- Children's Collection
- Early Literature Collection
- Play and Learn Space
- Computers
- Comfortable Seating for
- Environmental Learning Center

#### **Building Support**

- ADA Compliant Toilets
- Mechanical/ Utility Room
- IT MDF Room
- Janitor's Closet
- MEP Room
- Multipurpose Room Storage

# **Staff Spaces**

- Staff Workrooms
- Private Offices
- Staff Restroom
- Material Handling
- Breakroom
- Focus Room



# SITE

# CIVIL

The existing site is located on approximately 2.17 acres bounded by 88th Street to the north, Penn Avenue to the east, private single-family residences to the south, and Queen Avenue to the west. The existing site consists of the Penn Lake Library building situated on the north half of the site and parking lot on the south half of the site. There is a small staff parking lot and loading access west of the building adjacent to Queen Avenue with steep access. There are several existing soil mounds on the west side and topography that pitches stormwater towards the building foundation.

The parking lot is bituminous with concrete curb and gutter and has approximately 66 standard parking stalls and 3 designated ADA parking stalls. The parking lot is currently accessed from Queen Ave S through a single entry point. There is an outdoor reading and environmental learning center located southeast of the building with wood mulch ground cover and natural play elements. The east side of the site has concrete sidewalks connecting the parking lot to the public walkway on Penn Avenue.

#### **Key Scope Items:**

#### **Utilities:**

- Maintain use of existing 6" sanitary service from 88th street to NW corner of existing building
- Replace Existing 2" domestic water service from Queen Ave S
- Two Existing parking lot catch basins and 12" storm pipe will be removed as part of stormwater improvements
- Roof Drainage will continuw to exit building via existing 8" storm service on east side of building

#### Stormwater:

- Existing mounding will be regraded to improve drainage away from the building
- An infiltration system (at or below grade) of an anticipated size of 7,000sf with an overflow to the existing storm sewer on the east side. This system will meet B3 requirements by maintaining a more natural hydrologic cycle through infiltration, evapotranspiration, and reuse
- Stormwater piping to be upsized as required to meet current plumbing codes

#### Pavement:

- The parking lot will be reconstructed and restriped, incorporating an additional access apron to Queen Ave S for dedicated entry and exiting
- Due to steep grading and non-accessible layout, the staff parking area will be reconfigured and reconstructed to be a dedicated service area for trash/recycling and book materials deliveries/pickups

# LANDSCAPE

The existing site consists of groupings of large mature burr oak trees on the north and east of the site. These Oaks have been identified by the county forester as being in good health, should be preserved and great care should be taken when working around them. There are some other mature species on site consisting of five Scotch pines on the northeast side of the parking lot. These trees have been identified by the county forester as being in good health and should be preserved.

There are several concrete walks throughout the site, most of which are considered not accessible. There is a heaving egress staircase on the north side of the building and most of the paving in the parking lot is deteriorated and there is no current storm water treatment on the site.

The current "environmental learning center" is in a southeast niche outside of the building. The planting around it consists of a mixture of weeds, thistle and perennial plants. There is a wood platform and some old log seats that are showing signs of deterioration. There is a yellow shade canopy that is seasonal and currently is taken down every fall and reinstalled in the spring.

### **Key Scope Items:**

- Add perennial plantings at building entries.
- Improve pollinator garden and environmental learning area plantings for easier maintenance
- Introduce smaller ornamental trees at east entry and shade trees in entry plazas
- Install coniferous screening on the south side of the parking lot and near the NW utility area
- Add prairie sod ring around site perimeter for ease of maintenance
- Create new entry plazas at east and west entries with seating, bike racks, permeable paving, and lighting
- Reconstruct all site sidewalks to meet current accessibility standards
- At the Environmental Learning Center, there will be a bew timber fence, platform, and story-time stone seating
  - · Include a small paver area, engineered wood fiber mulch, and accessible walkways
  - Install permanent shade canopy over most of the seating and play area
- Maintain existing Hennepin County Library monumental signage at Penn Ave S, provide new exterior building wall mounted lettering along Queen Ave S to identify building from primary vehicular entrance

# ARCHITECTURE / BUILDING

# FORM + DESIGN

Distinct in both form and character, the existing Penn Lake Library features a number of unique architectural elements such as its stepped brick exterior, structural glulam beams and columns, exposed roof deck, and sloped volumes. The architectural form and design of the Penn Lake Library Renovation looks to achieve the following goals in support of the county, library staff, and patrons to achieve a meaningful transformation to a building that serves as a resource to the community: The design will strategically focus the efforts of the renovation in the most impactful core areas.

#### **Key Scope Items:**

- New exterior canopies at building entries
- Enlarged entry vestibule for more welcoming experience
- Reconfigured partition layout at multipurpose room
- · Reconfigured and reoriented customer service desk, individual study and video conference rooms
- New partitions providing separation between staff and patron areas
- More flexible and comfortable spaces for patrons to make use of the library's wide offerings
- Lowered shelving for improved sightlines
- Enlarged storefront openings at reading lounge
- Enlarged, ADA compliant restroom layouts
- Reconfigure spaces and clearances to meet building and accessibility code

# INTERIOR

A successful renovation of Penn Lake Library will clarify, simplify, and unify the overall material palette and highlight the characteristic materials of the building, which include the exposed beige-toned brick perimeter walls and the prominent oak glulam beams and columns. Specific areas will be identified to add accents of color or graphics to help distinguish several areas through high contrasting surfaces of visual interest. Interior layouts will maximize flexibility and emphasize activating the areas along the exterior with views into the mature oak grove outside.

### **Key Scope Items:**

- Floor finishes will primarily be carpet tile with some areas of large format tile and sealed concrete at back of house areas
- Where feasible, existing partitions will be remain in place and receive new finishes
- · Interior frameless glass and storefront assemblies will be strategically used to improve sightlines and visibility

# 4 | Proposed Design

- Where feasible, existing wood roof deck will remain exposed
- · Acoustic ceilings will be introduced in individual study rooms for acoustical treatment

# **FURNISHINGS**

The design team will work with Hennepin County to identify furniture that can be salvaged, refinished and integrated into the renovation. This approach has worked successfully on other similar Hennepin County Library projects with interior modifications. New furniture will be provided throughout the library to create comfortable, ergonomic, and flexible areas for patrons to make use of the various library offerings. New shelving will be provided to meet current county standards and improve sightlines from the customer service desk into the collections area. Furniture for the multipurpose room with the goal to support various functions and setups.

# BUILDING ENVELOPE

# ROOF

The existing built up asphalt roof is estimated to be approximately 20 years old and is to be replaced as part of this project. This roof replacement will remedy the following deficiencies:

- Areas of leakage
- · Areas of ponding
- No overflow drains or scuppers
- R Value that is not compliant with current energy codes

#### **Key Scope Items:**

- The proposed roof assembly is an R30 90-mil white EPDM membrane that incorporates proper cricketing to slope assembly to drains
- A new roof drain and curb will be installed above the community room, vestibule, and canopies.
- New overflow roof drains and scupper will be installed to comply with current plumbing and building codes
- Parapet coping will be replaced in its entirety and a full perimeter parapet will be provided with a continuous stud wall at the backside of the roof, providing a continuous surface for installation of roofing and associated flashing
- Existing overhanging tree limbs will be trimmed back in coordination with Hennepin County Forestry Division

# WINDOWS + DOORS

The existing windows and doors are hollow metal steel frames with steel or aluminum window stops and double pane insulated glass and are likely original to the building. The storefront entries at the east and west building elevations are newer aluminum systems. The following scope is proposed will improve energy efficiency and eliminate water infiltration into the building.

### **Key Scope Items:**

### **Windows and Doors**

- · Remove and replace all steel framed windows with modern aluminum framed systems
- Replace hollow-metal steel doors with thermally improved frames and insulated doors
- Install flashing to the jambs and sills of rough openings prior to replacement
- Replace all sealant joints

#### Window Heads / Steel Lintels

- Replace existing window head flashings.
- Replace existing lintels beyond repair and coat existing lintels with a corrosion inhibiting coating; provide prefinished metal drip edge

# MASONRY

The masonry walls are in overall good condition. With the strategic repairs noted and appropriate ongoing maintenance, the masonry is expected to remain serviceable indefinitely. The following work in relation to building masonry is recommended:

#### **Key Scope Items:**

#### **Brick Repair**

- Remove and replace individual cracked/spalled brick (25 +/-)
- Tuckpoint all failed mortar joints (5%-10%)
- Replace failed sealant at masonry expansion joints
- Remove and replace metal chimney cap flashing. Install monolithic adhered membrane flashing to horizontal masonry surfaces prior to replacement
- Remove and replace the existing mortar wash at the foundation wall ledge along the building's north elevation.
- · Install prefinished metal reglet flashings over the wash to shed runoff water off the ledge
- Install clear penetrating silane-siloxane water repellent to all exposed exterior masonry to prevent the absorption of water

# **BUILDING SYSTEMS**

# MECHANICAL

The proposed mechanical design intends to maintain existing equipment where feasible and replace where existing systems are either beyond their useful life or are not properly sized for the space and function they are serving. The scope listed below has been developed by the design team in close coordination with Hennepin County subject matter experts and staff.

#### **Key Scope Items:**

### **Heating Plant**

- Two Viessmann gas-fired condensing boilers (2022) with 100% redundancy will be retained
- · Hydraulic separator, air vent, expansion tank, and two variable speed in-line pumps (2022) will be retained
- Heating water circulating pump (2012) will be retained; VFD will be removed and replaced

#### **Air Handling Systems**

- AHU-1 (2012, 50-ton DX split system) retained and re-insulate existing refrigerant piping
- Add re-heat coils for individual zone control in study rooms/book stacks
- Replace supply fan VFD (20hp)
- Maintain Rawal valve; unit remains oversized but functional
- AHU-2 (2006, 7.5-ton rooftop unit for multipurpose room) removed and replaced with 5-ton split-system air source heat pump
- Dedicated indoor air handling unit inside building for multipurpose room with condensing unit on roof
- Discontinue tunnel system; supply air from west wall in multipurpose room

### Terminal Units & Systems

- Finned tube radiation heaters retained and reused where possible
- Two entry vestibule cabinet unit heaters will be replaced with recessed in-wall untis; one vestibule CUH near electrical/janitor's rooms retained
- Replace mini-split serving electrical room; add mini-split to IT room (to be located outside at grade)
- Remove humidifier (2012) from mechanical room, deemed not required
- Retain two hot water unit heaters, two power roof ventilators, restroom exhaust system, and three electric heaters

### **Building Automation System (BAS)**

- Replace with new Hennepin County standard BAS integrated with Security Operations Center
- Replace all sensing elements
- Retain/reuse control wiring, valves, and damper actuators

# ELECTRICAL

The electrical and lighting design will provide energy efficient systems that support the use and function of the new library layout. Intuitive and easy to maintain systems are key considerations.

## **Key Scope Items:**

### **Electrical Distribution**

- The existing utility transformer and switchboard have sufficient capacity to support the library's future use and are recommended to remain in place
- The branch panels serving mechanical loads, exterior lighting loads, computer loads, conference room loads, and some receptacle loads are in good condition and recommended to remain in place, with new branch circuitry to support the renovation.
- Replace and upgrade branch panels as required based on their service life and anticipated loads
- Provide receptacles in support of flexible programattic layouts and reconfigured spaces

### **Lighting and Controls**

- New LED lighting will be provided throughout the building. Where possible, one-for-one lighting replacements will be provided to minimize the impact of lighting control system upgrades required by the energy code.
- Exterior wall mounted LED wall packs to remain in place
- Exterior site and parking lot lighting to be replaced with new LED lighting and controls
- There is no existing or proposed generator; egress/exit lighting and fire alarm to have battery power sources

#### Fire Alarm

• The existing fire alarm system is obsolete and will be replaced with a new fire alarm system, including FACP and all associated detection and notification appliances

# PLUMBING

The existing plumbing scope in the project focuses on updating components to comply with current codes and support the new library layout to provide efficient, sustainable, maintainable and durable systems.

#### **Key Scope Items:**

#### **Domestic Water**

- Existing 2" water main to remain in place (see civil section for more information)
- All plumbing fixtures in staff/public restrooms, break room, and multipurpose room kitchenette will be all new fixtures. Domestic water connections will be revised to accommodate new fixtures.
- Existing domestic water heater is in good condition and will be maintained

### **Sanitary**

- The existing condition of the sanitary cast iron piping is being evaluated for its condition and a cost alternate for the full replacement will be included in the SD estimate
- Provide revised sanitary connections for all new fixtures
- Replace all plumbing vents to meet code height requirements

# FIRE PROTECTION

The existing building does not have a fire suppression system. A fire suppression system is not currently included in the project scope and is not required by building code based on building type. For Type IV-HT Construction, it is worth noting that attention will need to be paid to all concealed spaces and appropriate protections provided.

# **TECHNOLOGY**

The technology scope for the Penn Lake Library renovation focuses on modernizing and standardizing systems to align with Hennepin County IT and security design standards.

### **Key Scope Items:**

- Replacing outdated cabling with new Category 6A infrastructure
- Creating a properly sized and code-compliant telecommunications room and communications main point of presence
- All existing systems—data, WiFi, video surveillance, access control, and intrusion detection—will be upgraded or reconfigured to meet current needs and support future flexibility

# SUMMARY OF COST ESTIMATE

The design team is dedicated to delivering an impactful project that prioritize preservation and sustainability while meeting all budgetary requirements set by Hennepin County. The Schematic-Design cost estimate is based on a usable square footage of 13,735 SF and a gross square footage of 14,720 SF. Based on the findings of the Schematic Design phase of work, the scope as described within this report is anticipated to require an overall project budget as outlined below.

PROJECT BUDGET	
Construction	\$ 6,585,000
Consulting	\$ 696,000
Equipment	\$ 56,000
Furniture	\$ 345,000
Moving	\$ 125,000
Contingency	\$ 692,000 (8.1% of budget)
TOTAL	\$8,500,000

# SUMMARY OF SCHEDULE

The project schedule outlines several key phases, starting with Schematic Design, which will be completed during Q3 of this year. The entire timeline is structured to achieve a project completion by Q4 2027.

Schematic Design Phase	Q2 2025 to Q3 2025
Hennepin County Board Approval Process	Q3 2025
Design Development/ Construction Documents Phase	Q4 2025 to Q2 2026
Construction Procurement	Q3 2026
Move-Out/ Construction Phase	Q4 2026 - Q3 2027

# EXTERIOR VIEWS







View from Queen Ave S towards Library Entry

View towards E Library Entry



View towards Landscape Plinth and Reading Lounge



View of Sloped Walk Accessed from Queen Ave S

# INTERIOR VIEWS







View from Vestibule

View to Customer Service Desk





View of Children's Area

View of Reading Lounge

# FLOOR PLAN - PROPOSED



# SITE PLAN - PROPOSED



Steps 2 East Plaza 3 West Plaza 4 Existing Conifer Trees to Remain 5 Planting Beds Environmental Learning Area 6 7 Rainwater Gardens 8 Monument Sign Accessible Entry 9 Screening Trees 10 11 Reconfigured Service 12 Seating Area 13 Learning Loop: Sloped Walkway w/ Interpretation Prairie Planting 14 15 New Utilities Screening Existing Trees (Shown as Dashed) 16

