



Agenda
Village of Glen Ellyn
Environmental Commission Meeting
Tuesday, January 26, 2021
7:00 PM
Glen Ellyn Civic Center, Galligan Board Room
Meeting Held Virtually - Via Zoom Only

This meeting will be conducted by audio and video conference without a physically present quorum of the Commission because of a disaster declaration related to COVID-19 and public health concerns affecting the Village of Glen Ellyn. The Illinois General Assembly passed Senate Bill 2135 on May 23, 2020, which was signed by the Governor on June 12, 2020. Senate Bill 2135 (now Public Act 1010640) amends the Open Meetings Act and allows the Village Board and Commissions to participate electronically in Board and Commission meetings when it is not feasible due to a disaster such as COVID-19. The Village has determined that an in person meeting at the Civic Center is not practical or prudent because of the disaster. Physical attendance at the Civic Center by the public is also not feasible because of the disaster.

To participate in the meeting at the appointed date and time, please click the link below to join the webinar:

<https://us02web.zoom.us/j/88479384201?pwd=T2VMWUY4bjRRUjYva3dGVjNXWW1lQT09>

Passcode: 096501

Or Telephone:

Dial(for higher quality, dial a number based on your current location):

US: +1 312 626 6799 or +1 646 558 8656 or +1 301 715 8592 or +1 253 215 8782 or +1 346 248 7799 or +1 669 900 9128

Webinar ID: 884 7938 4201

- A. Call to Order**
- B. Public Participation**
- C. Minute Approval**
 - 1) Minutes - December 15, 2020
- D. Announcements**
- E. Trustee Liaison's Report**
- F. Staff Liaison's Report**
- G. Park District Liaison's Report**
- H. Commission Discussion and Reports**
 - 1) Streetscape Review and Discussion
 - 2) Arts Initiatives
 - 3) Marketing and Education Topics
 - 4) Greenest Region Compact Initiatives
- I. Next Meeting Date & Adjournment**

- 1) A Special Environmental Commission Meeting is scheduled for Monday, February 1, at 7:00 PM.
- 2) Motion to Adjourn

ENVIRONMENTAL COMMISSION

MINUTES

DECEMBER 15, 2020

Board or Environmental
Commission:
Meeting: Regular
Quorum: Yes

Date: December 15, 2020
Called to 7:03 p.m.
Order:
Adjourned: 8:28 p.m.

MEMBER ATTENDANCE:

Christie Truitt	Chairman	Present
Jeff D. Abeln	Commissioner	Absent
Todd Birman	Commissioner	Present
Jacquelyn Casazza	Commissioner	Present
David Meehan	Commissioner	Present
Steve Swanson	Commissioner	Present
Jennifer E. Umlauf	Commissioner	Present

Also Present:

Christina Coyle	Finance Director Staff Liaison	Present
Craig Pryde	Liaison Trustee	Present
Elijah Bebora	Staff Intern	Present
Emily Rodman	Assistant Village Manager	Absent

PUBLIC

I. CALL TO ORDER

The **December 17, 2020** regular meeting of the Environmental Commission was called to order by Chairman Truitt at **7:03 PM** at the Glen Ellyn Civic Center via Zoom Call.

II. PUBLIC PARTICIPATION - None

III. APPROVAL OF MINUTES FROM NOVEMBER 17, 2020 MEETING

MOVE TO APPROVE MINUTES OF REGULAR MEETING FROM 11/17/2020

RESULT: Motion unanimously carried

MOVER: Commissioner Umlauf

SECONDER: Commissioner Casazza

- IV. **ANNOUNCEMENTS:** Chairman Truitt reports that the DuPage Foundation Grant has been awarded. The grant award was for \$12,500. She thanks Commissioner Umlauf for her work on this. Commissioner Umlauf adds, she thinks the EC should focus on the Ped-way initiative to get the most value out of the money. Director Coyle will reach out to Meredith Hanna and find out next steps and how the Environmental Commission can proceed.

Chairman Truitt reports we've had 2 students fill out applications to be our student intern, we are reviewing those applications.

V. COMMISSION DISCUSSION AND REPORTS

A. *Greenest Region Compact Initiatives:* Chairman Truitt asks the EC if they have any reports on their initiatives.

Economic Development – Guidelines for Businesses (Green Building Manual):

Commissioner Meehan reports that he and Commissioner Birman met a few times to discuss how to approach this initiative. We looked at who our audience would be, what type of format we want to use - a lot of big picture thinking. We are planning on a one page document with about 5-10 items. We would like to offer an EC green seal if these items are adhered to. Next month we will have more details to share with the EC. Chairman Truitt adds she loves the framework and process and thanks Commissioners Meehan and Birman for their continued work on this.

Land Use:

Protect our Community Health & Natural Assets

Encourage practices that reduce toxins & pollutants (i.e. Car idling) – Commissioner Casazza reports that she and Commissioner Abeln are working on this but have not been able to connect. They will have more information on this topic next month.

Evaluate Dark Sky Ordinances: Commissioner Casazza reports that she has looked into what other Villages have passed. Homer Glen and Hawthorne Woods currently have ordinances. Arlington Heights has tried to pass an ordinance for 4 years with no success. She adds, for Glen Ellyn we may have to start small and refocus our efforts on education rather than trying to pass an ordinance.

Promote Stewardship of Natural Resources.

Homegrown National Park initiative: Commissioner Swanson reports we need to educate our residents on Native Plants. One way to do that would be to put in signs where native plants already exist. The signs would provide information on the plants. We can also post photos on our website to do further outreach. Chairman Truitt adds, we want to mobilize around a movement and anchor that in our education events - addressing native plants, sustainable landscaping and water management. We can tie this into our April events and include it in our sustainable garden and yard tours. Commissioner Umlauf adds, the Conservation Foundation is already doing a lot of this. We can use them as a resource. Chairman Truitt adds, we want to leverage our resources but brand it as Glen Ellyn. Chairman Truitt adds perhaps we can also offer annual “Green” awards.

B. Plans for Next Marketing Segment – Staff Intern Bebora reports that we have received good viewership on our recycling campaigns. We are averaging about 900 views on each campaign. We have received a lot of “likes” especially on Twitter. The Recycling Bows campaign on December 8th gave us the highest impressions of 1,200. The community is responding well to the campaigns. Our current scheduled campaigns end in January. Commissioner Umlauf asks what is coming out in our next campaign. Staff Intern Bebora states he will touch base with Meghan to see what’s next and will report back next month. Chairman Truitt asks the EC if they have any ideas for campaigns after January. The EC suggests winter sustainability topics, water management and Dark Skies. Director Coyle adds perhaps we could do something on sump pump drainage on sidewalks. We get a lot of feedback from residents on this with sidewalks icing up in the winter.

C. Report on Arts Initiatives: Commissioner Umlauf reports that we are having a meeting in January to discuss this. Director Coyle will touch base with Meredith Hanna to get more information.

D. Education Topics: Chairman Truitt reports that she has received some information regarding noise pollution with leaf blowers at the state level. We can continue to follow this to see what happens and perhaps add that information as a topic. Commissioner Umlauf adds we can look into ways to plant more trees through an organized system that residents can contribute to – especially if residents are removing trees from their property. We can do some research to see if other villages are offering this type of program.

- VI. Trustee Liaison Report** – Trustee Pryde reports, we are working on the Comprehensive Plan and it will be up on the website for review. The final document will be presented to the Plan Commission and once approved it will go to the Village Board for a vote. The streetscape mockup data is still being collected. The major issue is to get an agreement from the Board to advance the CBD Streetscape project next year. There is a lot of discussion on whether to delay the project by a year.

Commissioner Casazza asks, how we should advise residents to give feedback on the Comprehensive plan. Trustee Pryde suggests having them read the existing plan and

compare it to the new plan. This way they can see what has changed. The plan is a vision for the future; a conceptual developmental plan for the next 10-20 years. Commissioner Casazza asks if the EC can give recommendations to the plan. Trustee Pryde replies; yes we rely on Commissions for input and recommendations. Trustee Pryde adds we are looking to approve the plan in February. Director Coyle will circulate the old and new comprehensive plan to the Environmental Commission for review. Chairman Truitt will add this to the EC agenda for January to discuss Comprehensive Plan recommendations.

VII. Staff Liaison Report – Director Coyle reports that the Village Board passed the budget and tax levy for 2021. The McChesney development site was approved and is moving forward. The Village board agreed to extend the moratorium on cannabis sales. President McGinley resigned last night effective at the end of the month. The Trustees will decide on how to fill that position. Trustee Pryde is President Pro Tem effective January 1, 2021.

VIII. Park District Liaison's Report – No report

IX. Next Meeting & Adjournment

- A. The next EC meeting will be held on January 19, 2021.
- B. Commissioner Casazza motions and Commissioner Meehan seconds the motion to adjourn the meeting. The meeting was adjourned at 8:28 pm.

Submitted by Elisa Pollina, Recording Secretary

Reviewed by Staff Liaison, Coyle



**Glen Ellyn Environmental
Commission**
535 Duane Street
Glen Ellyn, IL 60137

Meeting 1/26/2021 7:00 PM
Department: Finance
Department Head:
Category: Commission Recommendation
Prepared By:

**AGENDA ITEM (ID # 2021-
858)**

DOC ID: 2021-858

Streetscape Review and Discussion

Statement of the Issue:

Please see attached memo and exhibits.

Analysis:

N/A

Budget Impact:

N/A

Action Requested:

N/A

Attachments:

1. Memo CBD Streetscape Memo to EC 2021 01 26
2. Exhibit 1 - January 19th Village Board memo and presentation
3. Exhibit 2 - Glen Ellyn CBD Streetscape plan DRAFT 2020 12 01
4. Exhibit 3 - List of Proposed Tree Species
5. Exhibit 4 - Glen Ellyn Urban Forest Summary



MEMORANDUM

TO: Environmental Commission

FROM: Julius Hansen, Public Works Director

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DATE: January 22, 2021

RE: CIC Discussion of CBD Streetscape and Utility Improvements Project
CBD Tree Plan and Species Selection List

Introduction

The CBD Streetscape design team would like to update the Environmental Commission on the latest developments on the design of the CBD Streetscape and Utility Improvements Projects, as well as discussion and input on the proposed plan for reforestation of downtown Glen Ellyn as part of the improvements.

Background

The topic of CBD parkway trees was last visited by the Environmental Commission back in January 2020. At that time, results of the assessment of existing 109 CBD Village trees was presented, along with a plan for reforestation of the CBD parkway trees during the project. The assessment shown general decline of the health of the trees, tough growing conditions, and general lack of diversity in the tree population. Combined with the anticipated impact of utility and streetscape construction transpired a decision to replace majority of existing trees during the project. The agenda, memorandum and presentation from that meeting can be viewed here: <http://glenellynvillageil.iqm2.com/Citizens/FileOpen.aspx?Type=1&ID=1621&Inline=True>

After carefully evaluation, the Environmental Commission supported the a plan to remove 95 of 109 Village trees in the downtown, and requested that the Village replaces the 95 existing trees, in soil cells where possible, and plant an additional 100-115 new trees, in soil cells where possible, in the area covered by the streetscape project. When fully implemented, creating a CBD with 185-225 new trees. The Commission also requested that the all trees be planted as soon as feasibly possible based on construction, but no later than the completion of the CBD Streetscape Project, and preparing a public education campaign to gain support of the public for this for this plan. This plan has been presented and approved by the Village Board at the February 18, 2020 Village Board meeting.

Tree Plan

The current design plans incorporates replacement of CBD trees and addition of new trees in areas that there are no trees currently in the CBD. Upon careful consideration of a minimum number of trees desired and the available parkway space, a general 35' tree planting space was selected as a base of the new tree planting. Attached as Exhibit 2 are Draft Concept Plans showing the location of new trees, planters, and the extents of soil cells incorporated into the project. Based on the current design the overall number of proposed trees in the project area is 235. The trees would generally be planted in 5' x 7' tree planters with soil cells, a handful of trees will be planted in paver grates with soil cells, and a few larger planters that do not require

soil cells due to an increased soil volume aof tehse planters. Included in the design are approximately 23 locations of large caliper trees. (Attached as Exhibit 5 are photos of example large caliper trees found in the Kaneville Tree Farm). These trees would be planted in prominent locations in the CBD, at the large corner bump-outs planters and adjacent to mid-block crossings.

A tree education camping was initiated in the spring of 2020 with a meeting with Downtown Alliance and presenting the plan to the local businesses. Addition camping efforts were forced to be mostly online and virtual, due to the impending pandemic. A dedicated page was created on the project website <http://downtownge.com/trees/> providing valuable information and educational resources on the state and the plan for downtown Glen Ellyn trees. Additional, outreach will be completed prior to proceeding with the construction of the project.

Species Selection

At the end of 2020, the design team focused on preparing a list of appropriate tree species for the new trees. Project landscape architect with consultation with PW Forestry team put together a list of proposed trees species, based on desired diversity of species, required growing condition, appearance and mature size of trees, and future maintenance considerations of these trees. Attached as Exhibit 3 is a List of Proposed Tree Species containing a quantity goals of each tree type. This list has been circulated to staff at Morton Arboretum for their input on the proposed tree selection. Lydia Scott, Director of Chicago Tree Initiative at the Morton Arboretum provided a response, encouraged the team to diversify the species as much as possible, discouraging any overly reliance on one type of species in case a next pathogen arrives that could affect a particular tree species, and also shared the Glen Ellyn Urban Forest Summary (attached as Exhibit 4), referencing the community wide species diversity. As soon as a list of trees is confirmed, PW would like to begin securing the trees that will be included in the first phase of the project, as well as looking at tree needs for the subsequent construction phases, in particular for the selection of large caliper trees.

Action Requested

Staff respectfully requests that the Environmental Commission review the plan for reforestation of downtown and provides specific or statement of support for the proposed tree species selection. PW staff and designers from Civiltech Engineering will be present at the January 26th Environmental Commission meeting to answer any questions.

Attachments

Exhibit 1 - January 2021 Village Board CBD Streetscape Memo and Presentation
Exhibit 2 – Draft Concept Plans
Exhibit 3 - Draft List of Proposed Tree Species
Exhibit 4 - Glen Ellyn Urban Forest Summary
Exhibit 5 – Example Photos of large caliper trees at Kaneville Tree Farm



Glen Ellyn Village Board
535 Duane Street
Glen Ellyn, IL 60137

Meeting 1/19/2021 7:00 PM
Department: Public Works
Department Head: Julius Hansen
Category: Discussion Item
Prepared By: Thomas Topor

**AGENDA ITEM (ID
2021-821)**

DOC ID: 2021-821

Senior Civil Engineer Topor will provide an update on design elements and costs of the streetscape project.

Statement of the Issue:

Staff would like to provide an update on feedback received from the business and building owners affected by the prospective 2021 utility, streetscape, and roadway construction, as well as check in with the Village Board on the style, placement, and cost of various design elements of the project.

Analysis:

Business Feedback

The Village Board last visited the overall construction schedule and a more detailed plan for the 2021 construction at the December 7th Workshop meeting. The Village Board considered the various factors affecting the schedule and requested businesses directly impacted by the construction on Main St, Duane St, and Hillside Ave, be consulted and feedback on their preference for timing of these improvements be obtained.

On December 30, 2020, staff emailed all businesses and commercial property owners within the proposed Phase I of the streetscape and utility project. Beginning on January 4, staff began emailing and calling businesses and/or property owners to set up in person and virtual meetings to discuss the project. To date, staff has met with 29 businesses, more meetings are scheduled for the week of January 18.

Generally, the businesses understood the need for the utility project and many agreed that now is the time to do it since there is already construction going on in the area. Restaurants along Main Street, expressed concern due to the pandemic but equal concern about two years of construction on their doorstep. Many want it to start as soon as possible and get it done, others have asked for a reprieve until after Mother's Day, due to the large volume of restaurant business on this particular weekend. One retail business expressed strong opposition to the project moving forward in 2021 due to the upcoming Frida Kahlo exhibit.

The consensus seems to be to condense this into one construction cycle, provided that the Civic Center Parking is open, that street closures are minimized, and that staff and the construction team continues to be responsive to the businesses as issues arise. Staff is working on creative ways to continue to drive traffic to the businesses, create new curbside pick-up locations within the Civic Center parking garage and other nearby locations. Businesses were invited to join the Board meeting to provide personal comments directly to the Board as well.

Streetscape Design

The design team met with the CIC on January 12, 2021, and obtained specific input on the items pertaining to the design of the streetscape project. A memo and a presentation prepared for the CIC which includes input from the January 6th Development Committee is attached with this memorandum. The members of the CIC took great interest in this topic and had an excellent discussion on these items that lasted close to three hours and resulted in set of concise recommendations on majority of the items presented. Every member of the CIC had an opportunity to provide specific input on each of the topics topic, with the recommendations summarized below.

Paving Material Selection for Sidewalks

- The CIC has reviewed the results of the visual survey of the streetscape materials and unanimously recommended **Plain Concrete** as the material of choice for the CBD sidewalks based on uniform look, cost, and ease of maintenance. The attached presentation has been updated with the final results of the public survey of the streetscape mockup materials.

Paving Materials for the Furniture Zone

- The CIC has reviewed the results of the visual survey of the streetscape materials and agreed with the top choice of the public and selected **Clay Brick Pavers in Herringbone Pattern** with tumbled edges as their preferred material for the furniture zone.

Material and Style of Carriage Walk and Inclusion of Pavement Band at Narrow Sidewalks

- The CIC has reviewed these options and overwhelmingly supported the **Option A – Clay Brick in Furniture Zone and Plain Concrete for the Carriage Walk** section of sidewalk.

Regarding the use of **Expend Pavers into Carriage Walk** along the back of the curb at narrow sidewalks sections, the CIC has recommended this application but suggested that the design be modified with a soldier course pattern for the decorative pattern. Additional plan views of this option will be prepared and presented to the Village Board for review at the January 19th Workshop.

Tree Planters

- The CIC has reviewed the results of the visual survey of the streetscape materials and unanimously recommended the use of **Granite Planter Curbs** in strategic locations, generally located along Main St; and parts of Crescent, Pennsylvania, Duane, and Hillside Avenue. For the remaining areas of the CBD, four CIC members preferred to see **Precast Concrete** be used, three members of the CIC preferred the use of exposed **Aggregate Concrete**, one CIC member preferred to see **Cast-in-Place Concrete** be used as a way of reducing the cost of the project.

Rendering of Midblock Crossing on South Main

- The latest rendering depicting section of Main St at the proposed mid-block crossing has been included. This concept was well received by the members of the CIC. Recommendations regarding specific elements included in this renderings are itemized below.

Planter Railings

- Decorative planter railings were introduced to provide a more decorative and historic look to the downtown. This addition was well received by the CIC with seven out of 8 members recommending inclusion of the railing in the scope of the project. The design of the railing is inspired by the insert in the peak of the Civic Center and the CIC thought it adds a unique aspect that ties it with the historic architecture of the town. Commissioner Baldin suggested to reduce the height of the railing to make it more visually appealing and reduce the chance of railings being used to tie bikes. Rendering showing this option will be presented to Village Board for review at the Workshop meeting. The CIC recommended the use of the railings on Main St and sparingly in most prominent locations in the CBD.

Crosswalk Material and Design Options

- A few options of crosswalk materials was reviewed. Members of the CIC thoroughly vetted the recommendations of PW and the Development Committee and unanimously recommended the use of concrete with **MMA (Methyl Methacrylite)** for the more central locations of the downtown and Plain Concrete with white bars for the remaining intersections. Commissioner Biggam and Foerester felt that the use of MMA could be further reduced to only focus on the core CBD areas. Commissioner Zuchero would prefer to see the MMA applied to all of the intersections in the CBD as a way to make these intersections be more visible to the vehicular traffic. Members of the CIC cited difficulties in crossing the streets along the Prairie Path crossings and recommended making these crosswalks safety and visibility a priority. The group also recommended extending the crosswalk treatments to Prospect and looking into making additional improvements to the existing crossing on Park, which is currently outside the scope of the streetscape project. The CIC was receptive to the proposed design of the decorative crosswalk but some thought the selected pattern may be a little too busy and recommended a making a mockup installation to further evaluate the proposed design. PW is looking into an

appropriate location and will be proceeding with the mockup of the crosswalk.

Raised Mid-block Crosswalks

- The CIC supported and recommended inclusion of the raised crosswalks for the mid-block crossing locations. At least three members of the CIC would prefer to see the crosswalk be only partially raised (<6”) to provide the desired effect of slowing traffic down and yielding to pedestrians, and reducing a chance of vehicles potentially bottoming out at the raised crosswalk.

Seat Wall Planters

- The CIC has reviewed the style and locations of the proposed raised seat wall planters and voiced no objections to the proposed plan. A question regarding the uncommon application of half raised seat wall, half granite tree planter for the west mid-block crossing planters was raised. Phil Hutchinson of Civiltech explained that due to the space constraints, the eastern portion of the seat wall was eliminated to allow more space for the tree and tree root ball.

Street Furniture

- The CIC has reviewed the proposed style of bench, trash receptacle, bike racks, and bollards. For the trash receptacles, majority of the CIC members recommended that PW thoroughly review and test the two candidates and pick one that will work best operationally. Majority of CIC members who expressed a preference of style, selected the **Canterbury Model 102**. PW has ordered samples of both trash receptacles and will further evaluate. For the bike racks, the CIC was somewhat split on the preference between the two models presented, the tradition style of **DuMor Model 209** and unique style of **DuMor Model 293**. Both of the models have been ordered and will be further evaluated. The design includes a **Victor Stanley CR-10** bench which matches the existing model used in the downtown. The CIC generally supported the use of this bench. Commissioner Baldin suggested a slightly more contemporary and at the same time more comfortable to seat on bench be considered. The CIC overwhelmingly supported the use of bollards to provide additional aesthetic and visual cues for midblock crossings and at selected intersections.

Festoon Lights

- CIC is recommending festoon lighting in key locations in the downtown. CIC recommended festoon lights be explored in key locations over sidewalks, parklets, dining areas, and alleyways at this time. Extending the festoon lights over the entire block of Main Street was not preferred. A couple of the commissioners could still potentially see the festoon lights be used over the mid-block crossing.

Right Turn Lane Eliminations for Southbound Main/Duane and Eastbound Crescent/Main

- The CIC has discussed this proposal recommended removal of the two lanes for the purposes of gaining the extra parkway space, gaining additional parking spaces and shortening the pedestrian crossings. Commissioner Zucchero have asked that additional review of the impact of right turn lane elimination for eastbound Crescent at Main in relation to the new development at Crescent and Glenwood. The traffic consultant has since reviewed it and confirmed that from a trip generation perspective, the new development will add no more than 4 cars per hour to the right turn movement and 2 cars per hour to the through movement at Main/Crescent. This additional traffic will not materially affect the results of the previous analysis.

Budget Impact:

N/A

Action Requested:

Staff respectfully requests that the Village Board review the feedback received from the businesses and provide a recommendation on the timing of the first phase of construction, as well as review the aforementioned project elements and provide recommendations for the preferred design alternatives. Village staff and engineering consultants will be in attendance at the January 19 Workshop to provide an overview of the presentation answer any questions.

Attachments:

1. January 2021 CIC CBD Streetscape Memo
2. CBD Streetscape Presentation update Village Board Workshop 2021 01 19
3. Streetscape Materials Survey Memo



MEMORANDUM

TO: Capital Improvements Commission

FROM: Rich Daubert, Professional Engineer
Tom Topor, Senior Civil Engineer

DATE: January 7, 2021

RE: CBD Streetscape and Utility Improvements
January 2021 CIC Meeting on CBD Streetscape Design Elements

Introduction and Background

Staff would like to engage the members of the CIC in discussion and seek input and preferences on the following CBD Streetscape project design elements:

- Paving material selection update
- Design layout update
- Rendering of midblock Crossing on south Main
- Planter railings
- Crosswalk design options
- Seat wall planters
- Street furniture
- Festoon lighting
- Right turn lane eliminations for southbound Main/Duane and eastbound Crescent/Main

Paving Material Selection Update

The streetscape mockups have been in place at the corner of Main and Crescent since late October. As of December 11, 2020, 298 votes were collected. The December results are similar to the previous month and are summarized below:

Sidewalk Options

33.8% - Plain concrete
36.1% - Exposed aggregate concrete
30.1% - Glitter concrete

Parkway (furniture zone) Options

- 36.2% - Brick paver (Herringbone pattern)
- 24.2% - Brick paver (Diamond pattern)
- 17.1% - Brick paver (Basketweave pattern)
- 14.8% - Stamped concrete
- 4.7% - Exposed aggregate (red)
- 3.0% - Exposed aggregate (green)

Planter Curb Options

- 63.1% - Granite
- 14.1% - Precast concrete
- 9.1% - Exposed aggregate
- 7% - Glitter finish
- 6.7% - Plain concrete

The online survey is still available at <http://downtownge.com> and paper surveys are available for pickup at the Civic Center, Glen Ellyn Public Library, and at the M&Em's store. The material options survey will close on January 12th, with final results available shortly thereafter. Staff will have updated results at the January 12th CIC meeting.

Design layout and updates

The design team has put together updated layout plans which includes the most popular survey option of brick pavers in the herringbone pattern. The attached presentation contains additional options for the expanded decorative pavement in the furniture zone.

- Option A includes a 5ft wide paver zone with a concrete carriage walk adjacent to the curb. (see Figure 1 below)
- Option A-1 includes a 5ft wide paver zone with a running bond pavers carriage walk adjacent to the curb.
- Option A-2 includes an expanded paver zone (to back of curb) and running bond pavers adjacent to the tree planters.

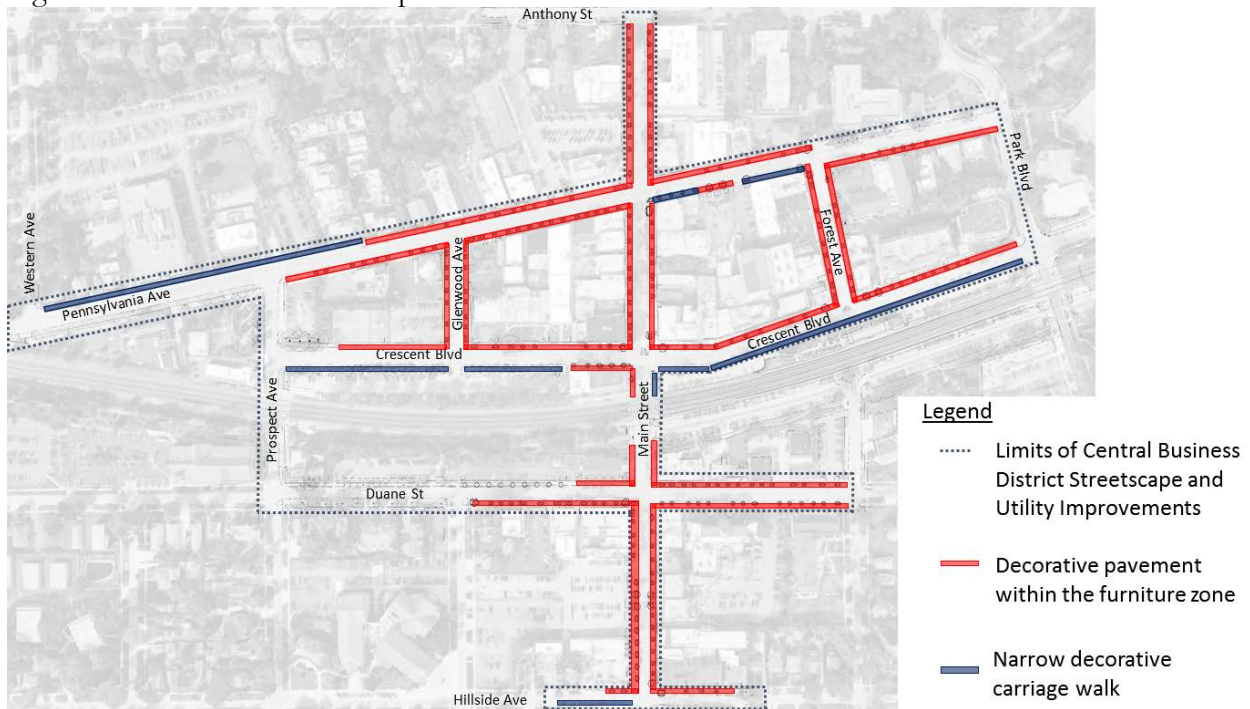
These options also include expansion of the paver carriage walk into narrower sidewalk areas unable to accommodate full furniture zone paver layout. Options A-1 or A-2 with expanded pavers into narrow sidewalk areas is estimated to add approximately \$306,000 to the cost of the project and has not been previously included in the \$1.4M estimate for decorative upgrades to sidewalks and crosswalk areas.

Options A-1 and A-2 were presented at the January 6th, Development Committee Meeting (DCM), consisting of key staff members from Community Development, Administration, Fire Company, and Public Works. The expansion of the paver furniture zone and elimination of the concrete carriage walk was not preferred by the DCM due to concerns regarding aesthetic of the paver bands and additional cost of the improvements. An alternative option of retaining the concrete carriage walk in the full furniture zones and applying brick at the narrow decorative carriage bands was proposed. This option adds approximately \$65,000 to the cost of the project. See Figure 2 for limits of this treatment.

Figure 1 – Option A: Herringbone Pavers and concrete carriage walk (Streetscape Mockup)



Figure 2 – Limits of decorative pavement



Cost considerations:

Brick pavers in furniture zone: 31,175 square feet at \$21.50/SF = **\$670,300**

Option A-1/2 Add Brick carriage walk (full furniture zone) upgrade: 11,205 square feet at \$21.50/SF = **\$240,908**

Add Brick at narrow decorative carriage walk upgrade: 3,024 square feet at \$21.50/SF = **\$65,016**

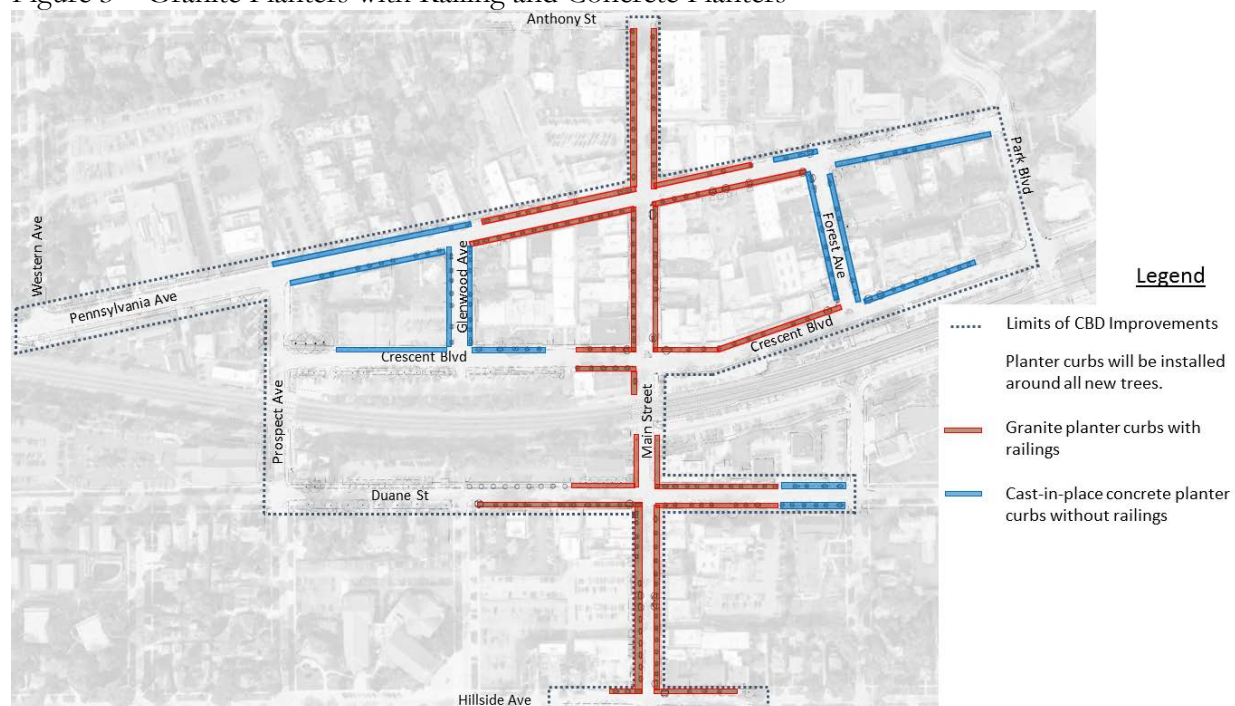
Rendering of midblock Crossing on Main St, between Hillside and Duane

The Main Street rendering was updated to show how streetscape elements will all work together. The rendering shows the preferred materials from the survey: herringbone brick (however extended to the curb), granite curb planters, and plain concrete sidewalks.

Planter Railing

An added design element includes an option of decorative planter railing around granite tree planters. The railing costs of painted black steel with the design inspired by the insert at the peak of the Civic Center. The attached presentation includes a graphic of the proposed planter railing. The cost of decorative planter railings was included in the previous cost estimate for Landscaping Features of \$2.7M, and is estimated at \$206,000 for the locations shown in Figure 3 below.

Figure 3 – Granite Planters with Railing and Concrete Planters



Cost considerations:

Granite planters (as shown): 3,170 linear feet at \$70/LF = **\$221,900**

(Granite planters entire project: 6,010 linear feet at \$70/LF = **\$420,700**)

Cast-in-place concrete planters (as shown): 2,804 linear feet at \$25/LF = **\$70,100**

Planter railing around granite planters (as shown): 3,170 linear feet at \$65/FT = **\$206,050**

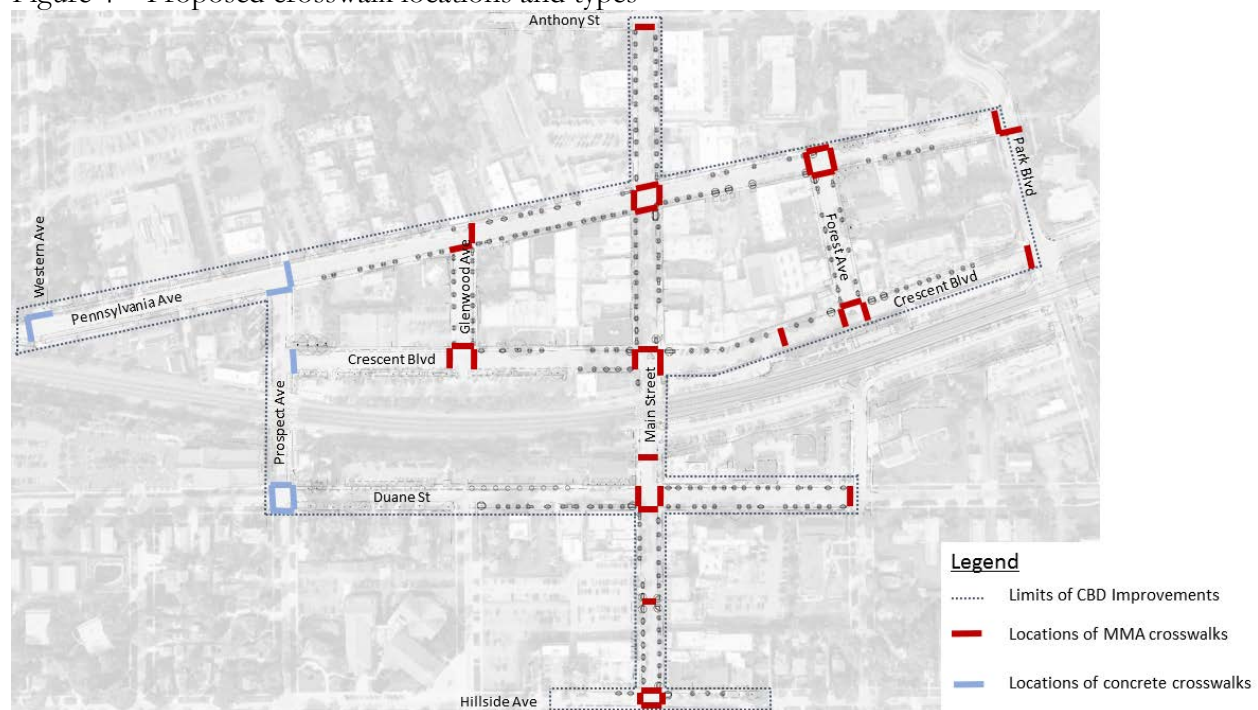
Planter Seat walls: 20 at \$27,000/EA = **\$540,000**

Midblock Crossing

The updated renderings include a decorative crosswalk treatment. Staff has reviewed the durability of various crosswalk materials and indicated preference for two options of materials. Concrete crosswalks with Methyl Methacrylate (MMA) surface application for all core and adjacent intersections, and regular concrete crosswalks for all other intersections included in the scope of the project. Figure 4 below, and in the presentation, shows the crosswalk locations and treatments.

MMA is an ideal surface applied decorative crosswalk application as it is both durable and provides a wide choice of design and color options. Three crosswalk designs are included in the presentation. The cost of upgrading crosswalks with MMA material was included in the previous cost estimate for Upgrades to Sidewalks and Crosswalks Areas, and is estimated at approx. \$324,000 per Figure 4 below. Another aspect of the mid-block crosswalks is a potential for raising the crosswalks above the general pavement level and creating an added traffic calming effect. A typical raised crosswalk is even with at top of curb height (6 inches) and includes ramps to ease the impact to vehicles. This option was not well received by the Development Committee for concerns with slowing vehicular traffic and potential complaints by motorists. The Committee members felt that the curb bump outs, crosswalk treatments, and other streetscape elements would call enough attention to the mid-block crossings.

Figure 4 – Proposed crosswalk locations and types



Cost considerations:

Crosswalk upgrades to MMA: 14,095 square feet at \$23/SF = **\$324,185**

Planter Seat Walls

Updated graphic of the preferred style of planter seat wall is included in the attached presentation. Seat wall planters will be used strategically at high-profile locations and provide opportunities for additional landscaping and large caliper tree installations. Current design includes 20 planter seat walls estimated at \$540,000 and is included in the previous cost estimate for Landscaping Features.

Street Furniture

A graphic of the narrowed down selection of street furniture is included in the presentation. The Village has ordered samples of each type for further review. The styles of trash receptacle and bike rack preferred by the Development Committee is identified in the presentation. The purchase price (excludes shipping and installation) of each type of street furniture item is summarized below:

- Trash receptacle DuMor Model 148 32 Gal Trash - \$1,660 EA
- Trash receptacle Canterbury Model 102 - \$1,785 EA (with a large scale order unit price reduced to \$1,695 EA)
- Bike rack DuMor Model 293 - \$235 EA
- Bike rack DuMor Model 290 - \$165 EA
- Victor Stanley bench - \$1,364 EA- 4' Bench and \$1700 EA – 6' bench (estimated)

Festoon Lighting

Building upon on a positive public response to the mockup of festoon light installation at Shocks Square, concepts of for festoon lighting on south Main St were developed to demonstrate a potential right-of-way application. The two draft concepts include festoon lighting installation above the midblock crosswalk, and a one for expanding the festoon lightening on either side of the midblock crosswalk. The Development Committee generally like the idea but thought it was better geared for pocket parks and gathering spaces and not for installations over the roadway. Some of the concerns voiced included vehicular clearances, future construction vehicle routing, increased height of installation, and potential light pollution concerns for the surrounding 2nd floor residential units. The Fire Company voiced concerns with responding to fire emergencies; specifically potential conflicts between the ladder truck with festoon light wiring. A high level estimated cost for festoon light installation over the midblock crosswalk is \$30,000, and approximately \$125,000 for the entire block of Main St from Hillside to Duane. These costs were not included in the previously prepared cost estimate.

Right turn lane elimination

Civiltech Engineering has completed additional traffic studies at the intersections of Main and Duane, and Main and Crescent.

Main and Duane

The purpose of the first study was to analyze the feasibility of removing existing right turn lanes for southbound Main St at Duane St. Benefits of it include widening of the sidewalks and shortening of the Prairie Path crosswalk. Based on the results of the study, elimination of the right turn lane will not have an adverse reaction on the traffic movement in the intersection. Engineering staff and the Development Committee supports this proposal.

Main and Crescent

The purpose of the second study was to analyze the feasibility of removing existing right turn lane for eastbound Crescent Blvd at Main Street. Benefits of it include widening of the sidewalks, shortening of the Crescent Blvd crosswalk, and creation of additional parking spaces on the south side of Crescent. Based on the results of the study, elimination of the right turn lane will not have an adverse reaction on the traffic movement in the intersection. Engineering staff and the Development Committee supports this proposal.

Action Requested by the Capital Improvements Commission

Staff respectfully requests that the CIC review the aforementioned project elements and provide initial input for preferred alternatives. Particularly, staff is looking for input on the following items:

- Preferred paving material for sidewalks and furniture zone.
- Preferred planter curb material.
- Review and preference on material and style for carriage walk and inclusion of the decorative pavement band at narrow sidewalks.
- Review and any input on the aesthetic, practical value, and cost of planter railings, as well proposed limits within the location of the project.
- Review and input on style and materials of the proposed crosswalks.
- Preference for locations of decorative crosswalks.
- Preference for raised crosswalks.
- Review and input on the street furniture.
- Review and input on festoon lighting on Main Street.
- Review and feedback on proposed right lane eliminations

Attachments

January 2021 CIC Meeting CBD Streetscape Presentation



Civiltech Engineering, Inc.

www.civiltechinc.com



Central Business District Streetscape Improvements

Village of Glen Ellyn

January 2021



Meeting Objectives

- Material Selection Update
- **Recommendations / Q&A**
- **Design layout and updates**
- Midblock Crossing on South Main
- Planter railing design
- Crosswalk design options
- Seat wall planters
- Street furniture
- Festoon Lighting
- Right turn lane elimination



Decorative Pavement Options | Sidewalk Options

Glitter concrete sidewalk



The subtle glitter gives the concrete an attractive, decorative finish.

Plain concrete sidewalk



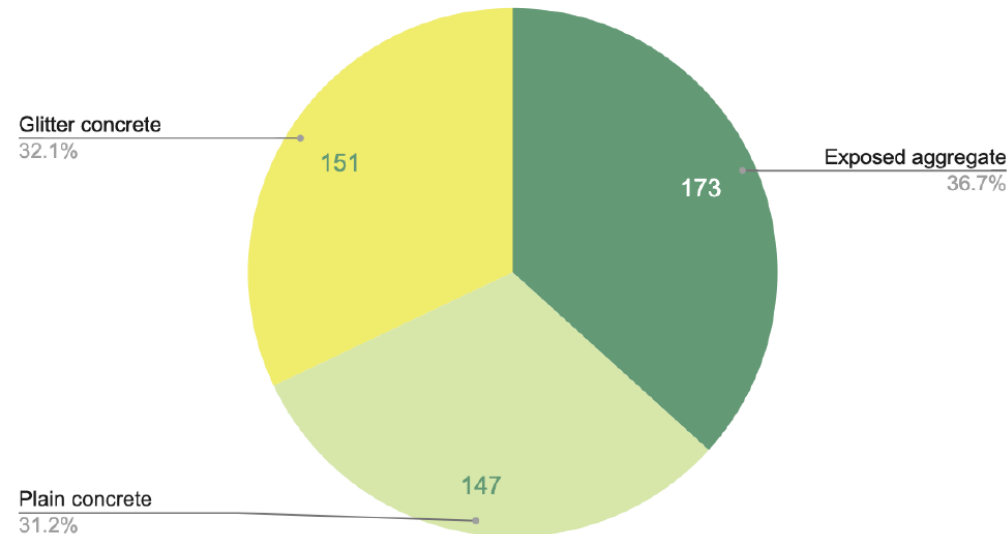
This is the most commonly used sidewalk material.

Exposed aggregate concrete sidewalk



This technique exposes the decorative aggregate in the

Preferred Sidewalk Material



173 votes: Exposed aggregate
147 votes: Plain concrete
151 votes: Glitter concrete

471 total votes

Decorative Pavement Options | Parkway Options

Colonial red exposed aggregate



Exposed aggregate is a customizable decorative concrete finish. This color was chosen to complement Downtown's many brick facades.

Shamrock green exposed aggregate



Exposed aggregate is a customizable decorative concrete finish. This color was chosen to complement Downtown Glen Ellyn's signs and banners.

Stamped concrete in a herringbone pattern



Stamped concrete with a decorative color and finish to mimic the appearance of brick pavers.

Fired clay brick pavers in a herringbone pattern



Brick is a classic look that never goes out of style. These pavers have a tumbled edge for a vintage look. The pavers are set in an interlocking herringbone pattern similar to many of Downtown Glen Ellyn's historic facades.

Fired clay brick pavers in a basketweave pattern



Brick is a classic look that never goes out of style. These pavers have a tumbled edge for a vintage look. The pavers are set in a basketweave pattern similar to many of Downtown Glen Ellyn's historic facades.

Fired clay brick pavers in a diamond pattern



Brick is a classic look that never goes out of style. These bricks have a beveled edge and are set in a classic running bond. The diamond pattern is inspired by the Glen Ellyn Civic Center.

473 total votes

- 78% prefer brick pavers
- 14% prefer stamped concrete
- 8% prefer exposed aggregate

152 votes: Brick (Herringbone pattern)

116 votes: Brick (Diamond pattern)

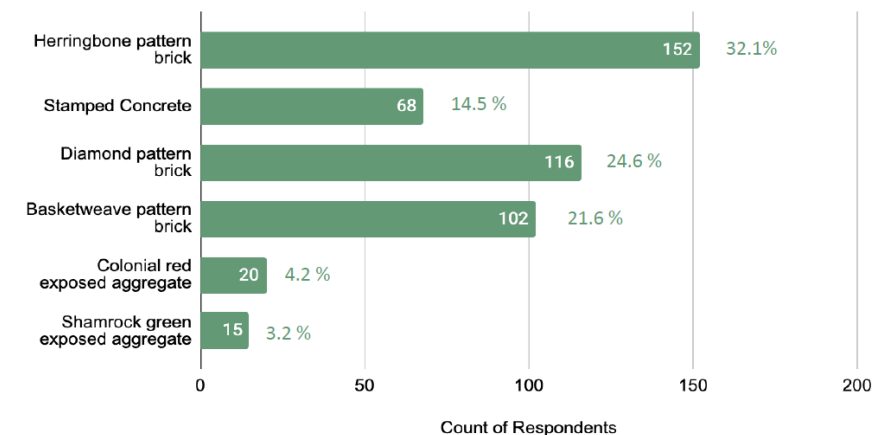
102 votes: Brick (Basketweave pattern)

68 votes: Stamped concrete

20 votes: Exposed aggregate (red)

15 votes: Exposed aggregate (green)

Preferred Parkway Materials



Clay Fired Brick Paving | Finish



Beveled



Tumbled

Decorative Pavement Options | Planter Curb Options

Tree Planter Curbs (Five options)

Cast-in-place exposed aggregate tree planter curb



This finish provides a refined and decorative look.

Cast-in-place tree planter curb



This concrete curb is poured on-site.

Precast concrete tree planter curb



Precast concrete is factory built to provide consistency.

Granite tree planter curb



Granite curbs have been used by cities for centuries. They provide a classic and elegant aesthetic.

Cast-in-place glitter concrete tree planter curb



This concrete curb has been enhanced by the application of glitter which gives the concrete an attractive decorative finish.

306 votes: Granite

55 votes: Precast concrete

46 votes: Exposed aggregate

37 votes: Plain concrete

29 votes: Glitter finish

473 total votes

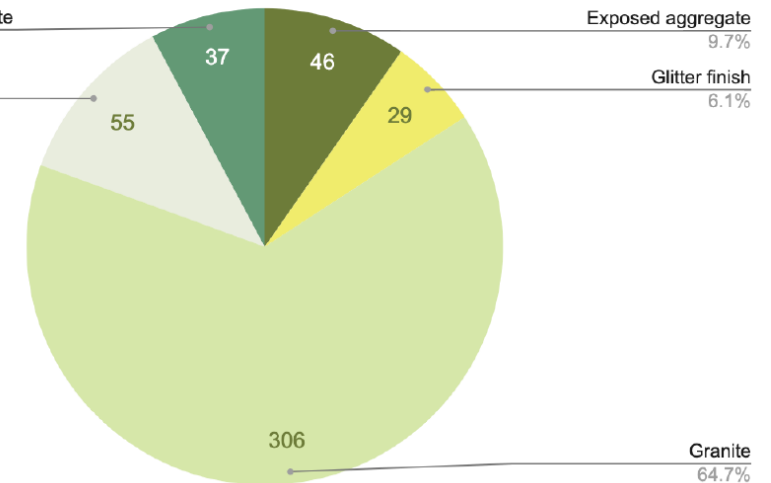
Preferred Tree Planter Curb

Cast-in-place plain concrete
7.8%

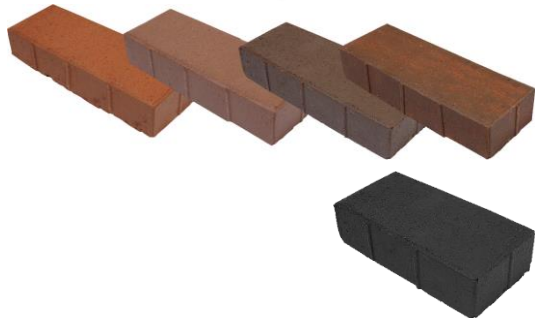
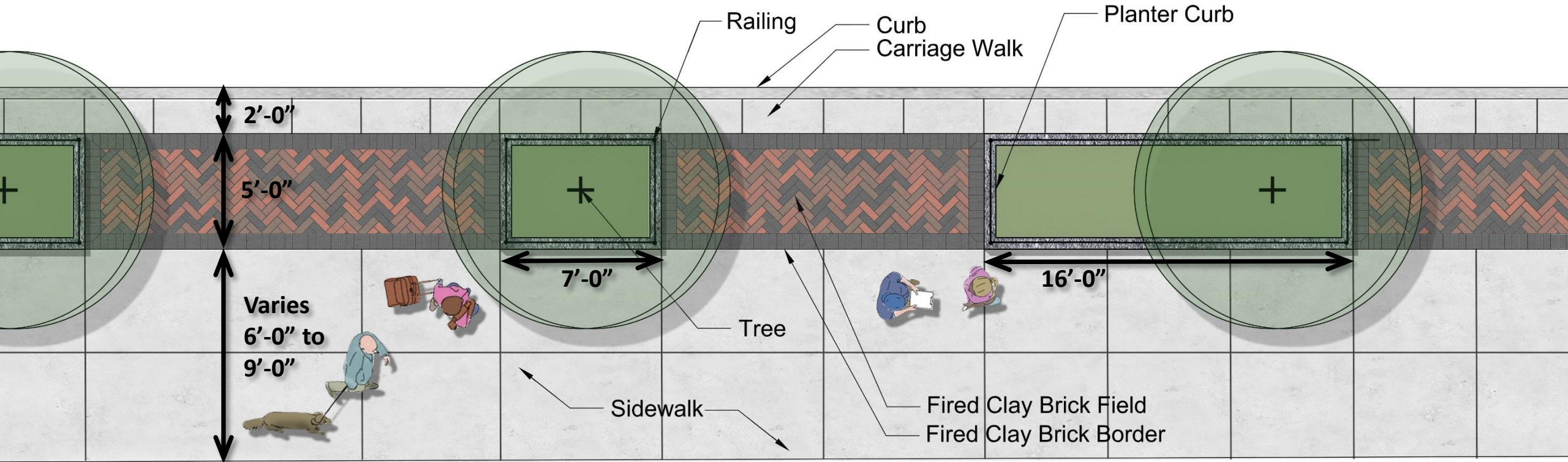
Precast concrete
11.6%

Exposed aggregate
9.7%

Glitter finish
6.1%



Fired Clay Brick | Option A - Plan View



4"x12" Herringbone Field: Blend of 32 Antique, 33 Dark Antique, 34 Mulberry, 36 Sunset Red and 63 Charcoal

4"x8" Soldier Course Border:
63 Charcoal



6" w. x 6" ht. Planter Curbs:
Mesabi Black Thermal finish granite

Fired Clay Brick | Option A - Perspective

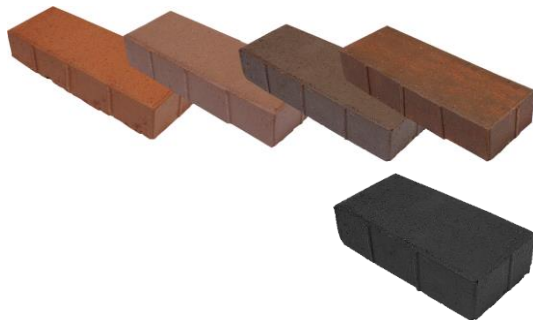
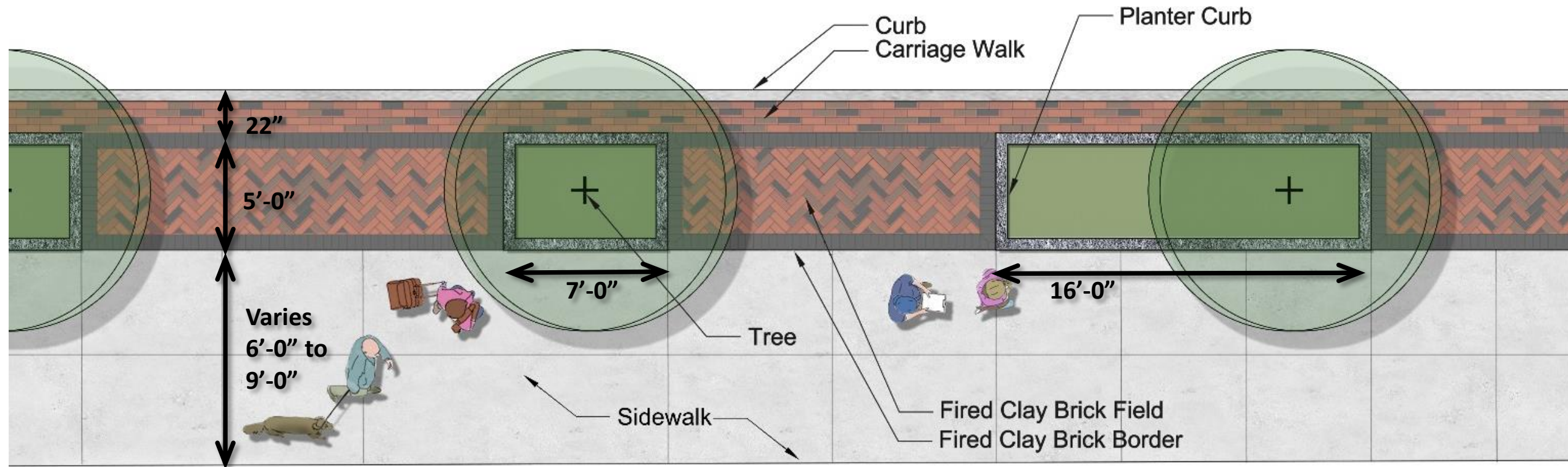


4"x12" Herringbone Field: Blend of 32 Antique, 33 Dark Antique, 34 Mulberry, 36 Sunset Red and 63 Charcoal

4"x8" Soldier Course Border: 63 Charcoal

6" w. x 6" ht. Planter Curbs: Cast-in-place concrete

Expanded Pavers into Carriage Walk | Option A - 1



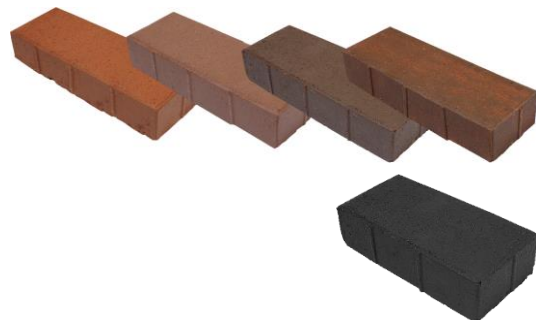
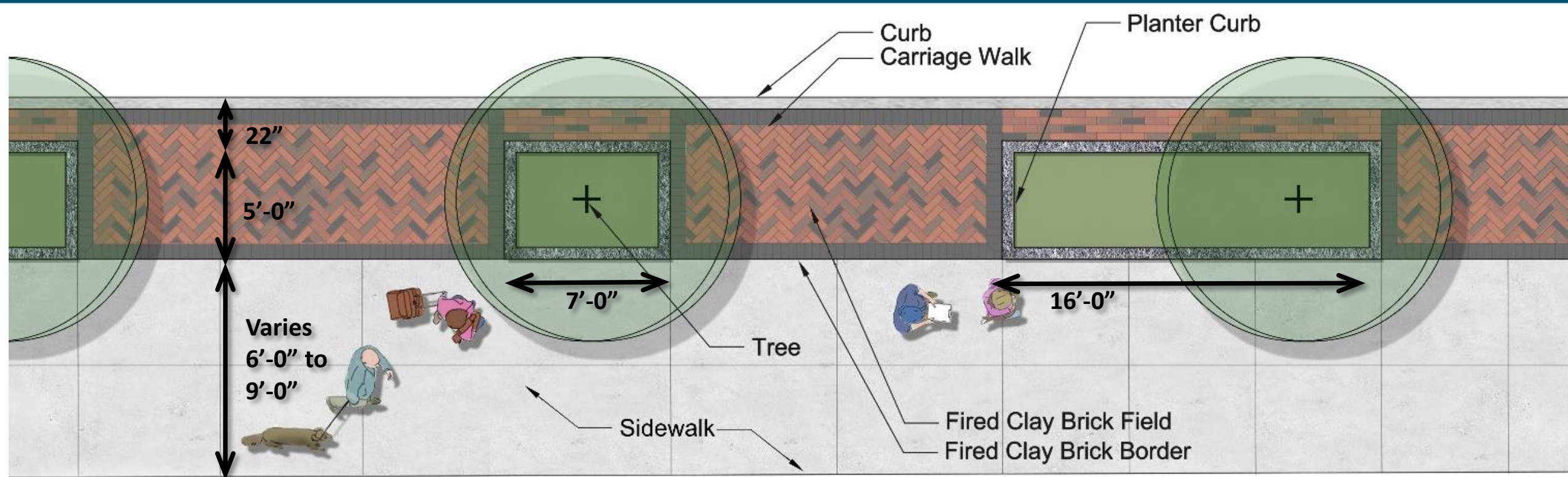
4"x12" Herringbone Field: Blend of 32 Antique, 33 Dark Antique, 34 Mulberry, 36 Sunset Red and 63 Charcoal

4"x8" Soldier Course Border:
63 Charcoal



6" w. x 6" ht. Planter Curbs:
Mesabi Black Thermal finish granite

Expanded Pavers into Carriage Walk | Option A - 2



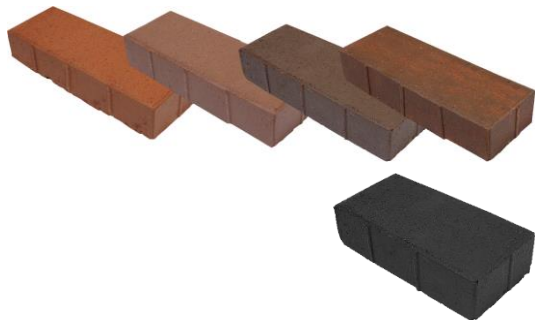
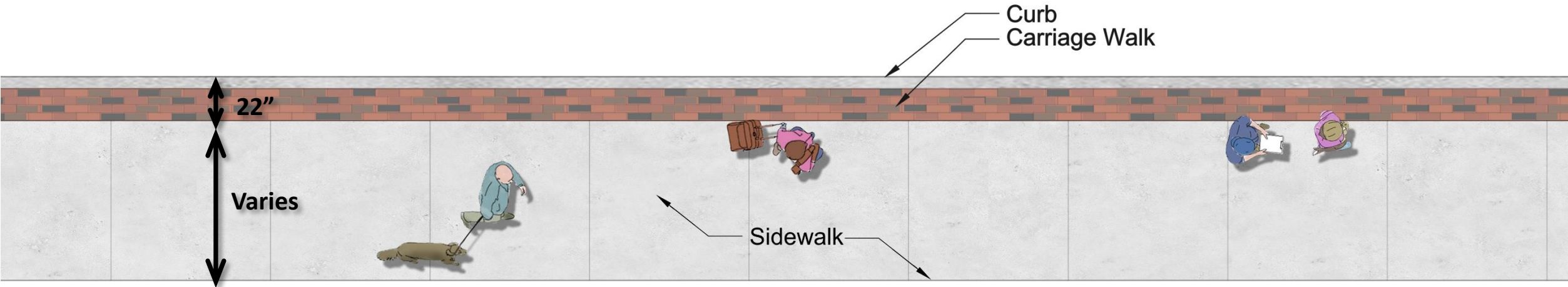
4"x12" Herringbone Field: Blend of 32 Antique, 33 Dark Antique, 34 Mulberry, 36 Sunset Red and 63 Charcoal

4"x8" Soldier Course Border:
63 Charcoal



6" w. x 6" ht. Planter Curbs:
Mesabi Black Thermal finish granite

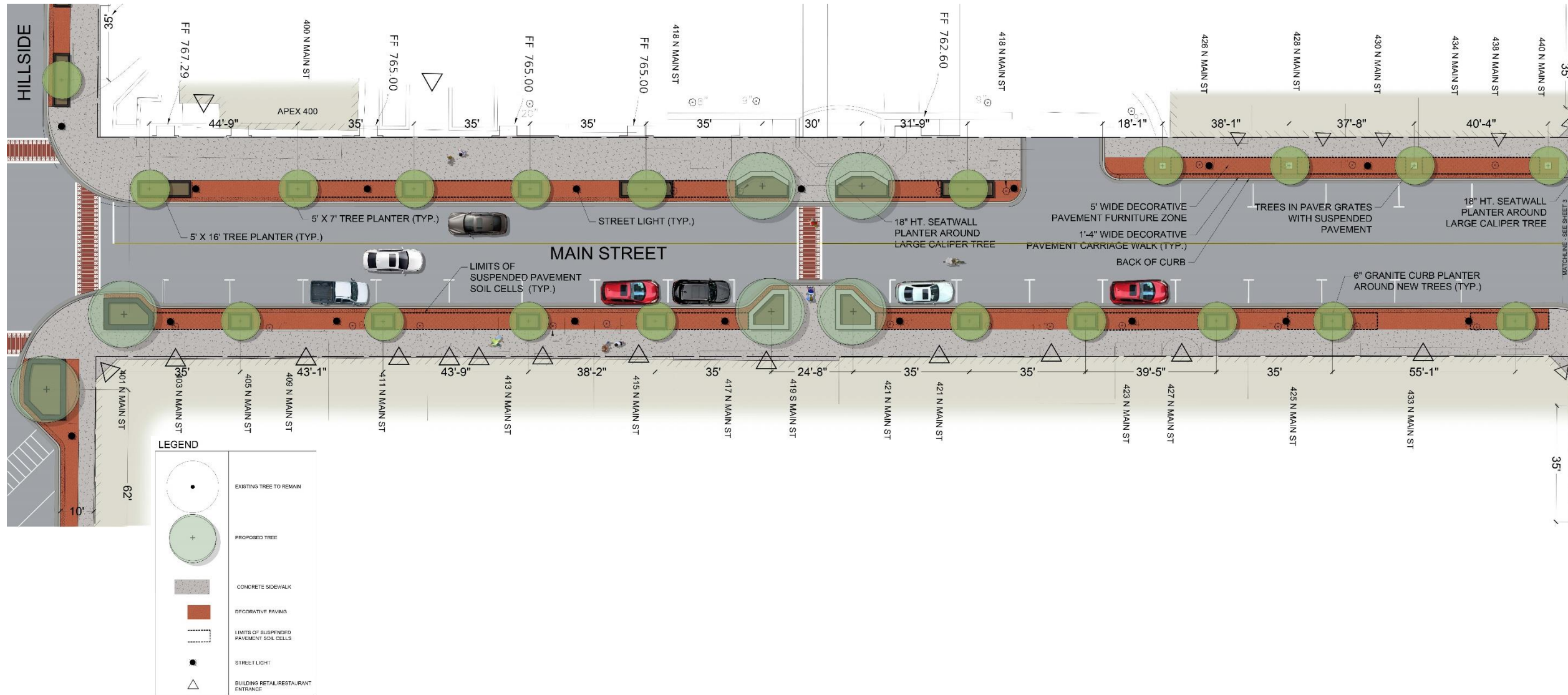
Expanded Pavers into Carriage Walk | Narrow Band



4"x12" Herringbone Field: Blend of 32 Antique, 33 Dark Antique, 34 Mulberry, 36 Sunset Red and 63 Charcoal

4"x8" Soldier Course Border:
63 Charcoal

Overall Plan Update



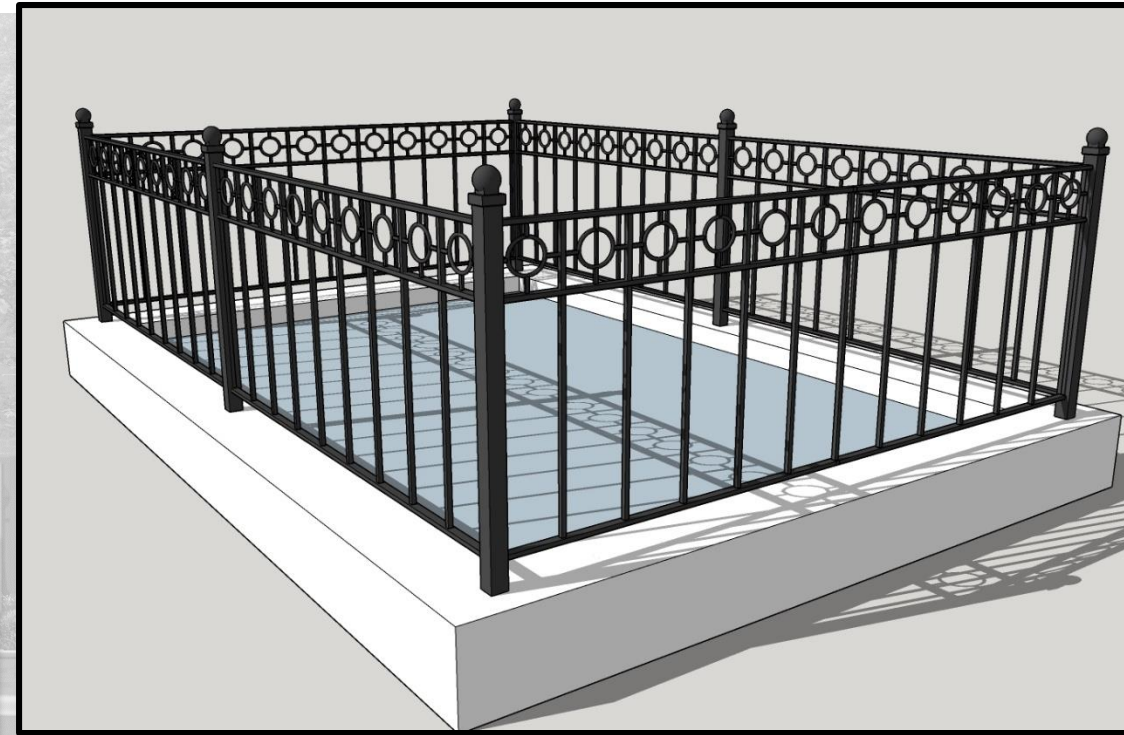
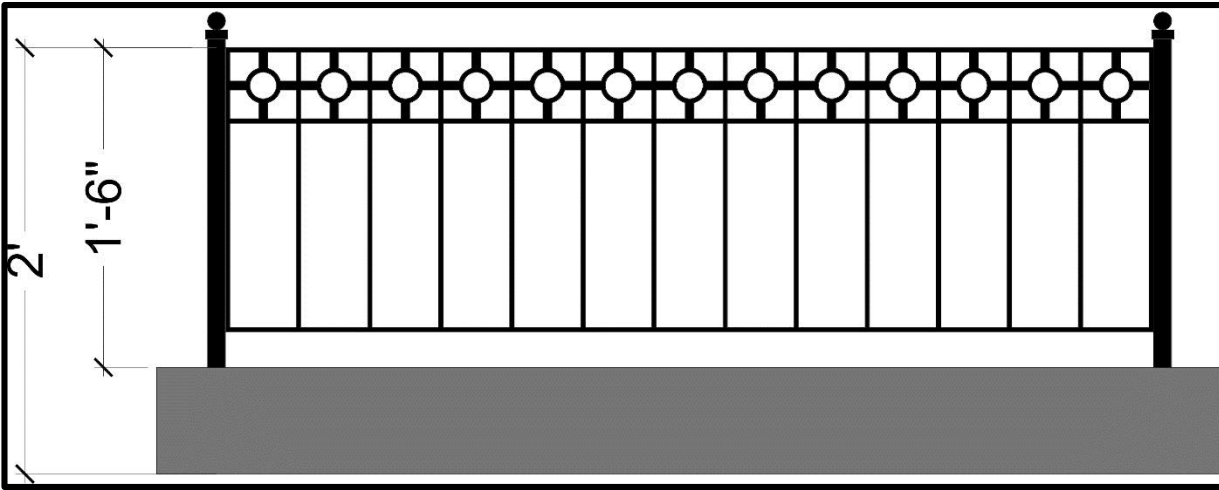
Perspective Rendering



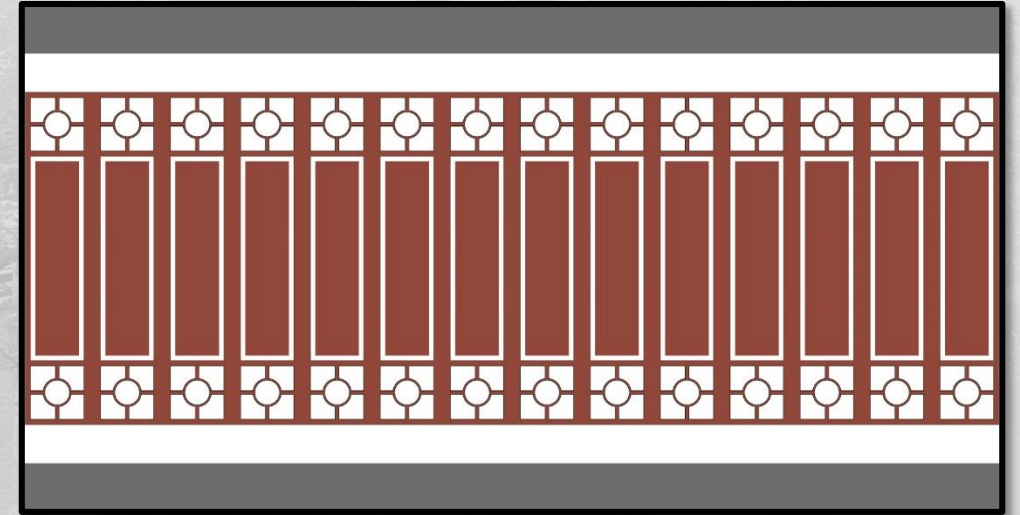
Perspective Rendering | Planter Railing



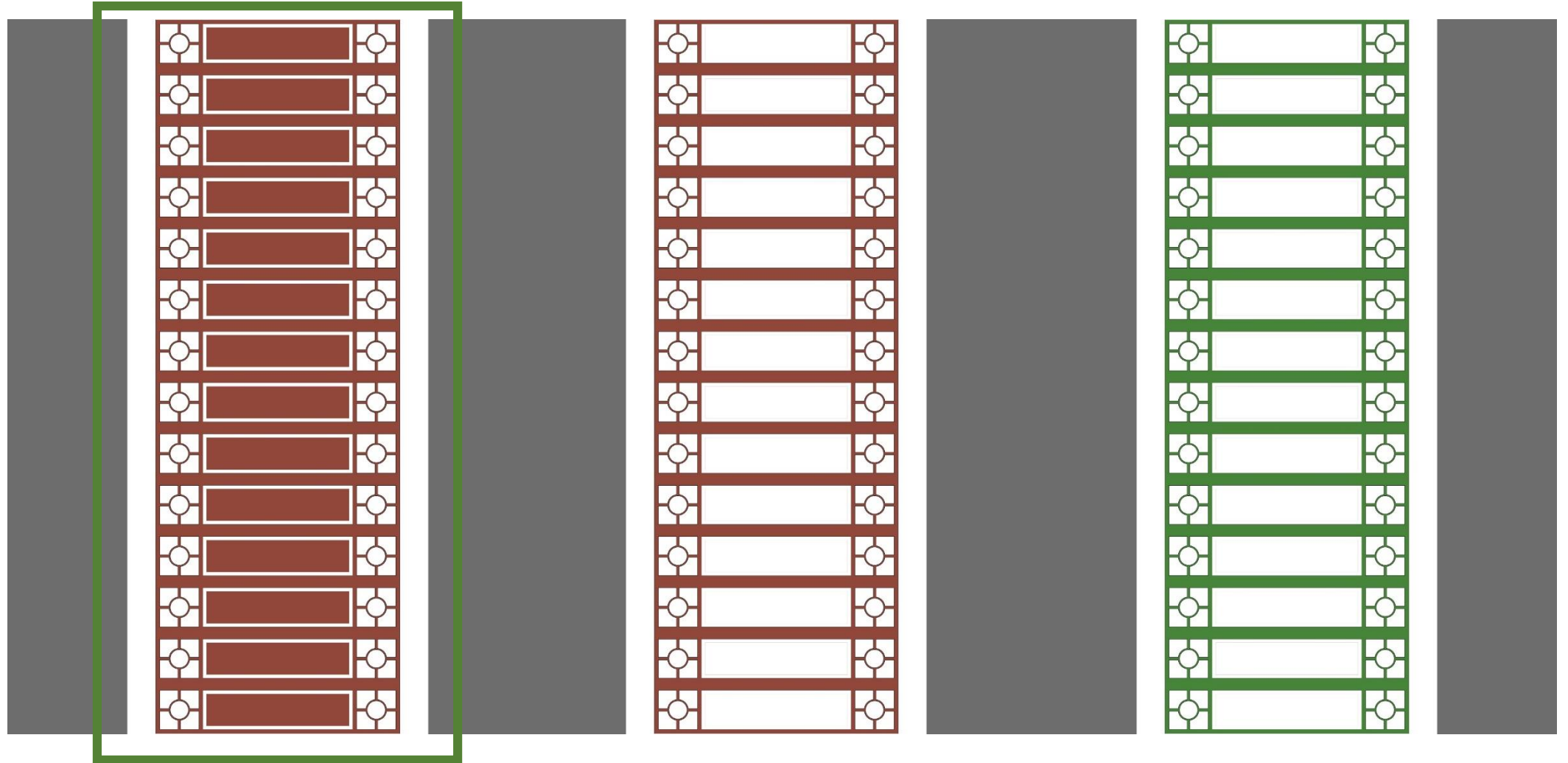
Planter Railing



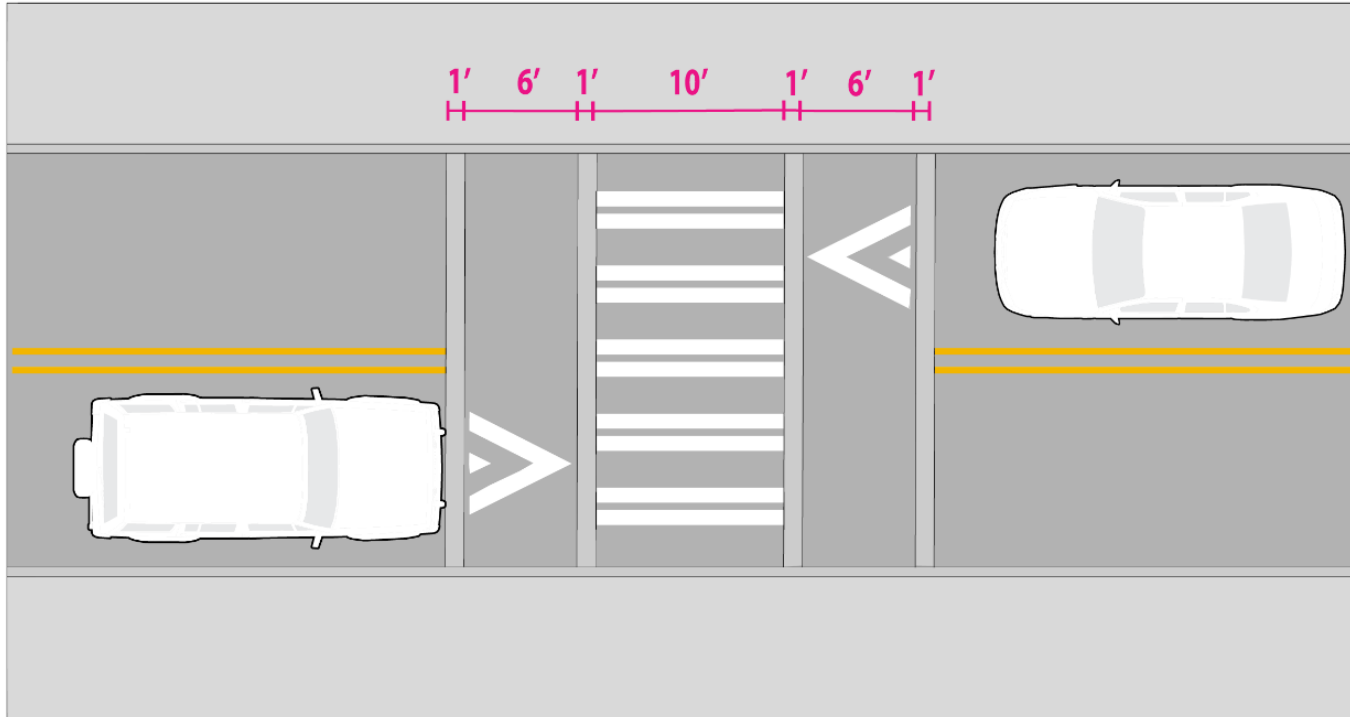
Decorative Crosswalk



Decorative Crosswalk



Raised Crosswalk



Crosswalks | Decorative Material Options

Concrete

- Low cost (\$11/SF)
- Long service life
- Simple and functional
- Higher replacement cost
- Low decorative aesthetic value



Concrete

Stamped Asphalt

- Medium cost (\$20/SF)
- Adds color and look of brick
- Easy to replace – low cost
- Wears quickly – 5 year lifespan
- **Not Recommended**



Stamped Asphalt

MMA on Concrete

- High cost (\$34/SF)
- Methyl Methacrylate
- No - Low Maintenance
- Adds bright color and can be customized
- Non-slip surface
- More durable than thermoplastic paint – 10 to 20 year lifespan



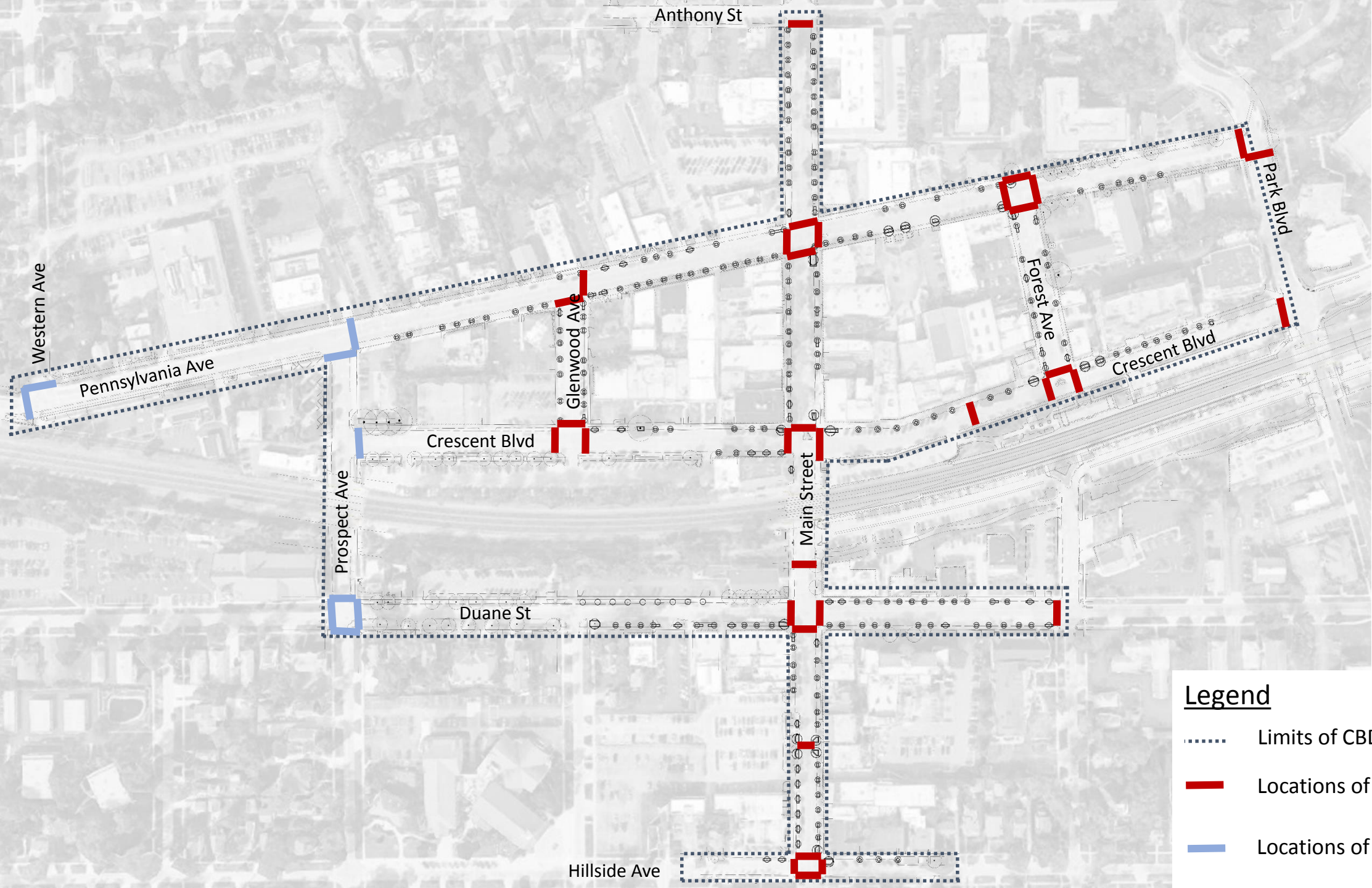
MMA on Concrete

Fired Clay Brick

- Highest cost (\$38/ SF)
- High maintenance
- High decorative aesthetic value
- Historic Material
- Long wearing/durable surface material – 30+ years



Fired Clay Brick



Legend

- Limits of CBD Improvements
- Locations of MMA crosswalks
- Locations of concrete crosswalks

Planter Seat Walls



Street Furniture



Reliance Foundry
R-7539



Canterbury
Model 102



DuMor
Model 148-32SH



Victor Stanley CR-10
4' and 6' length



DuMor
Model 293



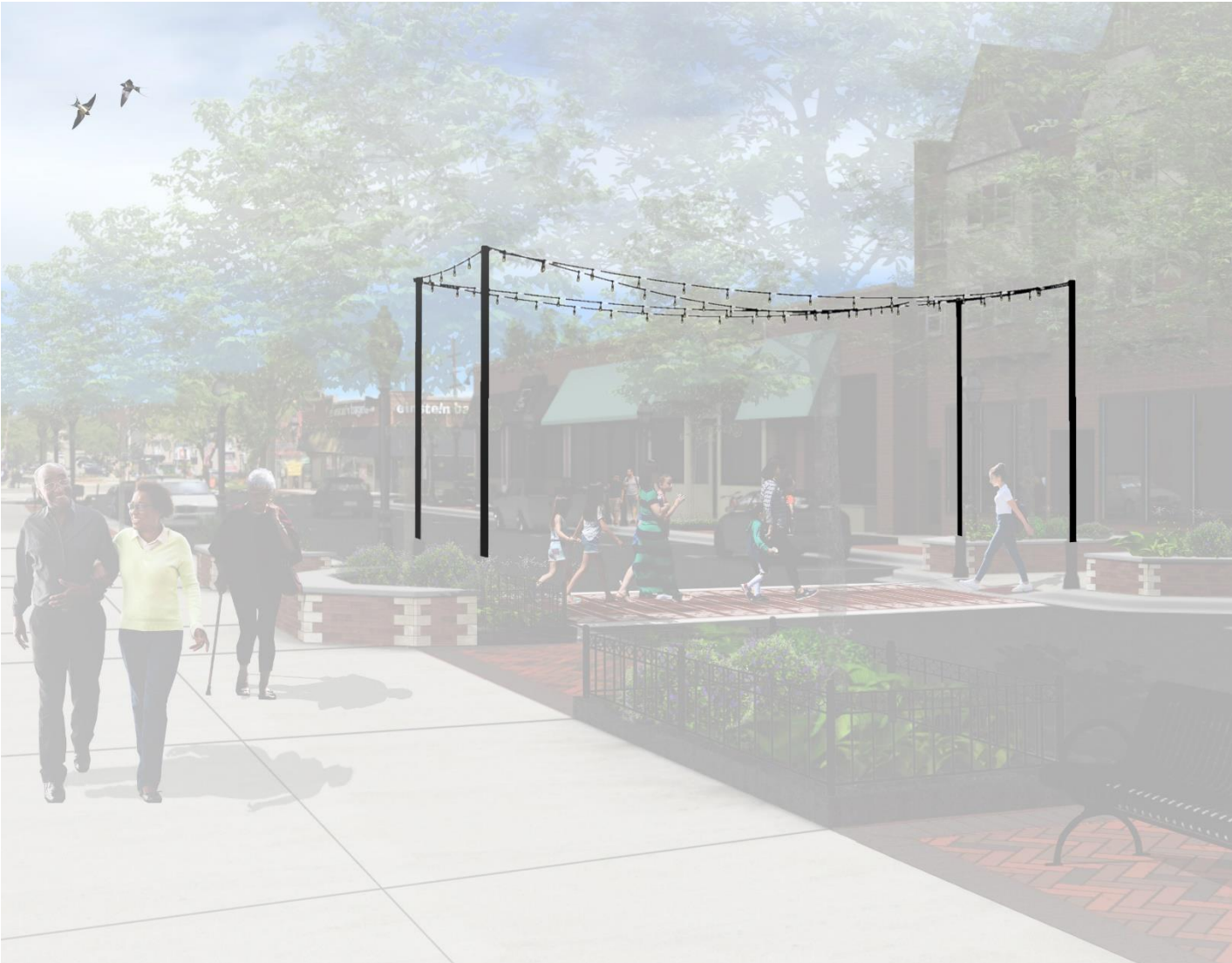
DuMor
Model 290



Festoon Lighting



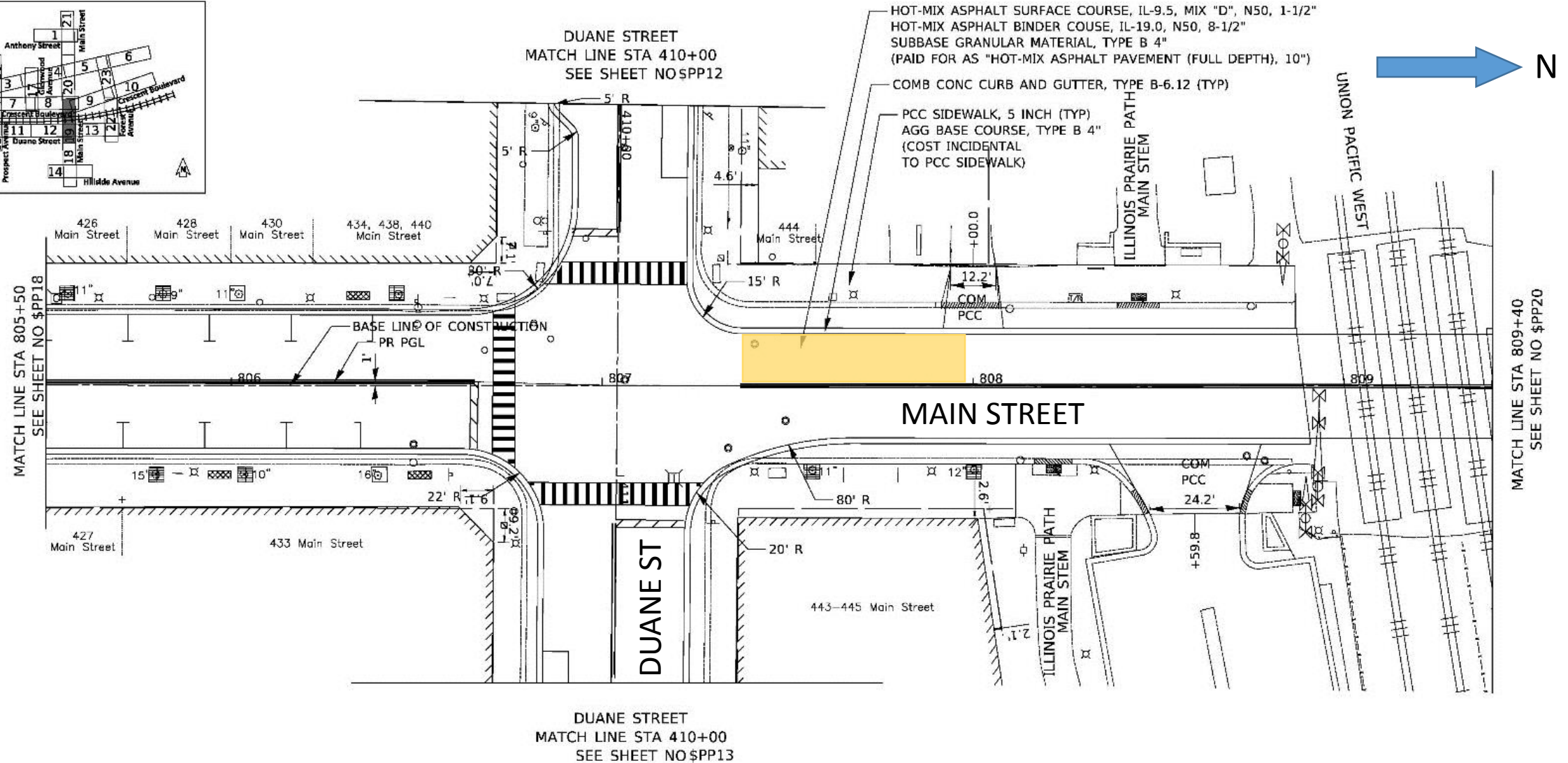
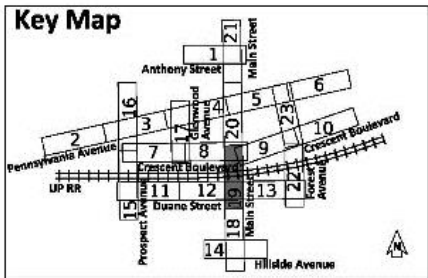
Festoon Lighting



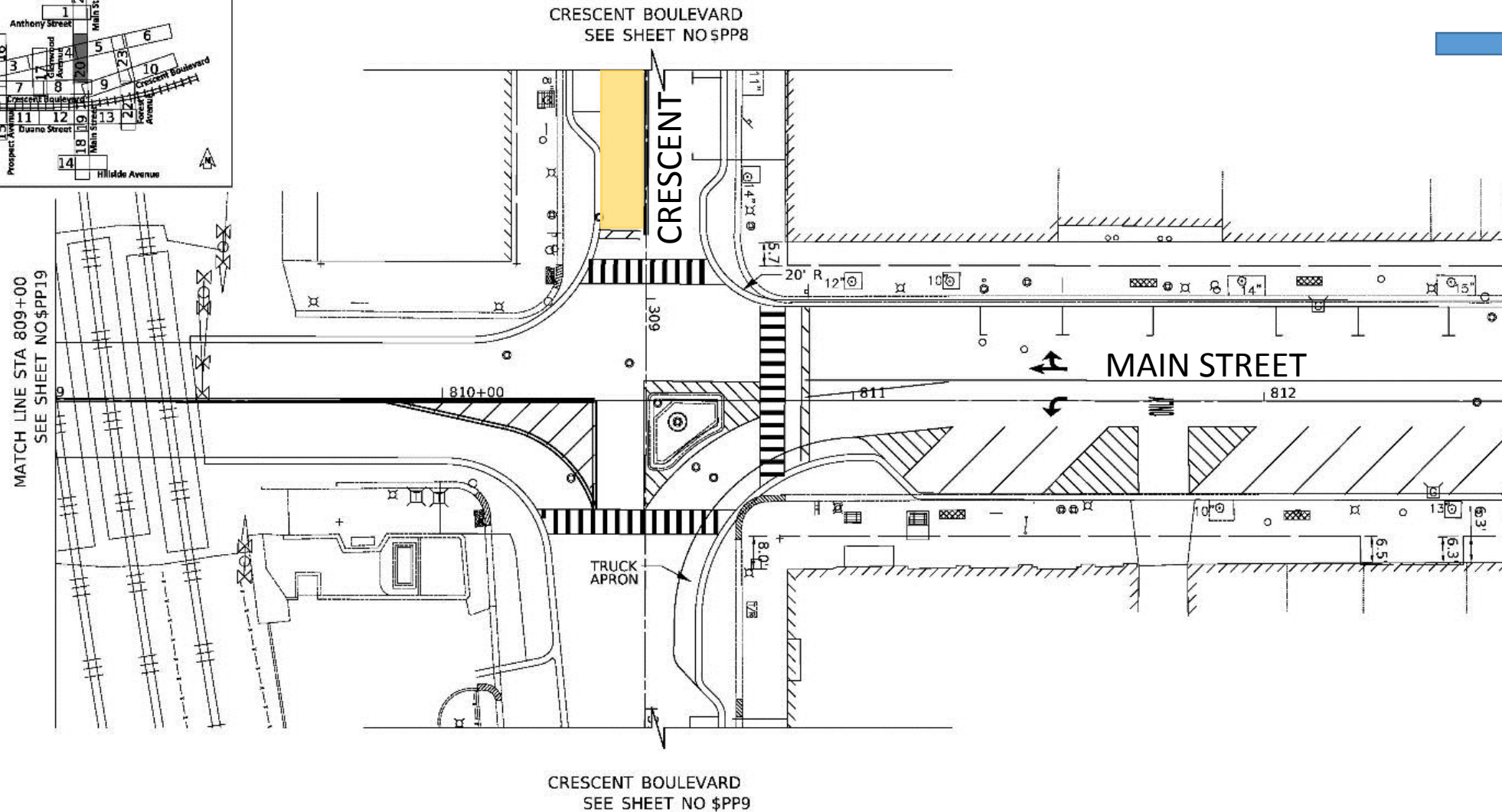
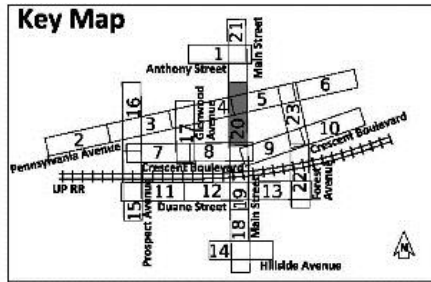
Festoon Lighting - Expanded



Right Turn Lane Elimination



Right Turn Lane Elimination



Discussion

Future meeting topics

- Final Streetscape Plans
- Final 3D renderings
- Main/Crescent intersection and horse trough
- Historic Plaques





Downtown Glen Ellyn Streetscape Materials Survey

As part of the streetscape design process, MUSE Community + Design launched a public engagement campaign to solicit feedback from residents, business owners and visitors on several material options for the new downtown streetscape. The Village board and staff will take the survey results into consideration as one factor when selecting the final streetscape materials for the Central Business District Streetscape and Utilities Project.

In October 2020, the Village installed several material samples at the northwest intersection of Main and Crescent. The materials installed fall into one of three categories: sidewalk materials, tree planter curbs and parkway materials. Residents, business owners and visitors have the opportunity to see all material options in-person at the northwest intersection of Main and Crescent from October 2020 – May 2021. After viewing the samples, people are invited to choose their preferred material at downtownge.com. In addition to voting online, MUSE created paper copy surveys to hand out on Saturday, November 7 and Thursday, November 19 at the Alliance of Downtown Glen Ellyn event, Ladies Night Out. Paper copy surveys were also available for the duration of the engagement initiative at the Glen Ellyn Civic Center, Glen Ellyn Library and M & Em's Children's Boutique. The survey closed on January 12, 2021 at 5 pm. This is the final memo outlining the results of the survey.

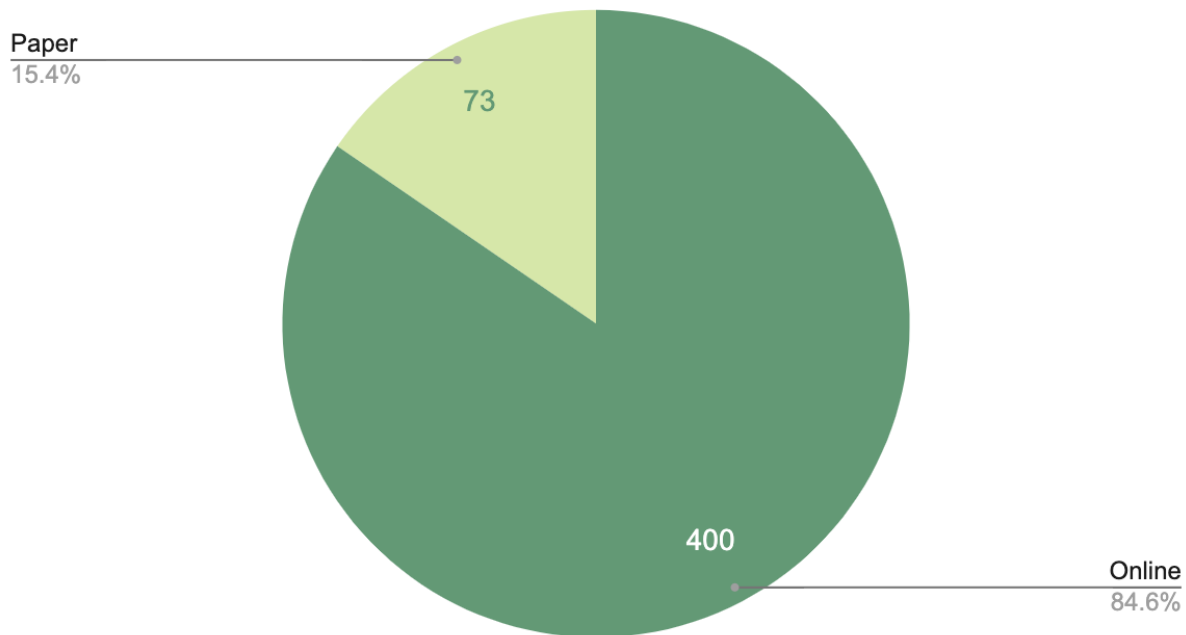
Survey Results as of January 13, 2021

Total surveys collected: 473

Survey Type

The survey is available online and in-person at select locations. The majority of respondents took the survey online.

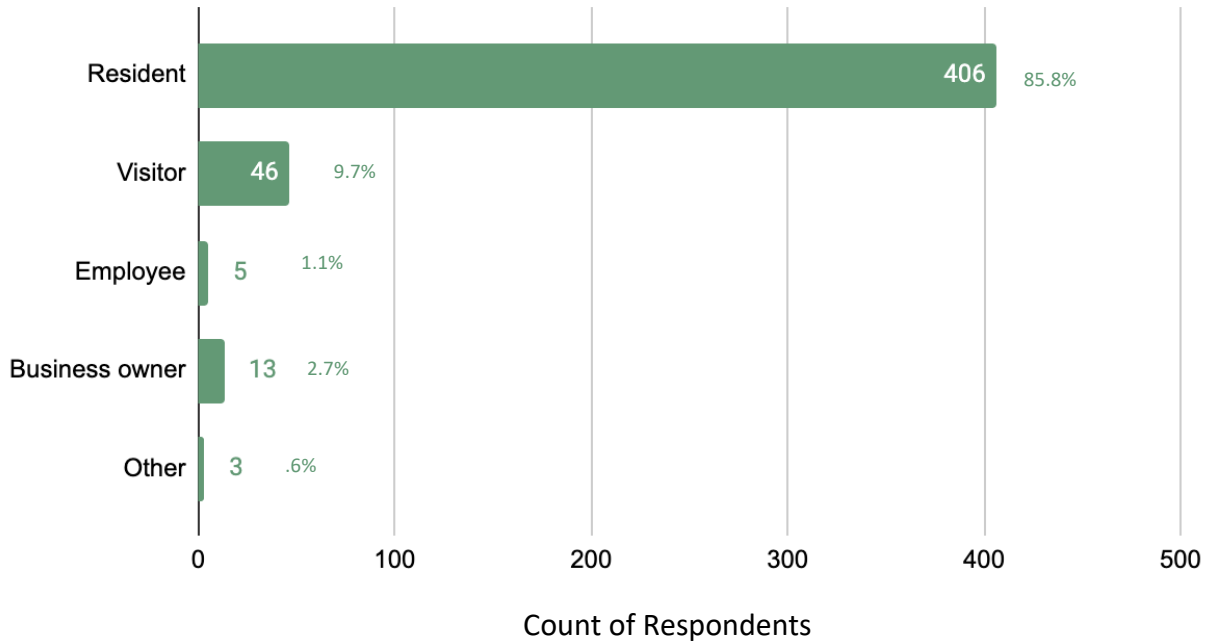
Share of Online and Paper Surveys



Relationship to Glen Ellyn

The Village solicited feedback from residents, business owners and visitors. Eighty-five percent (85%) of the respondents identify as residents.

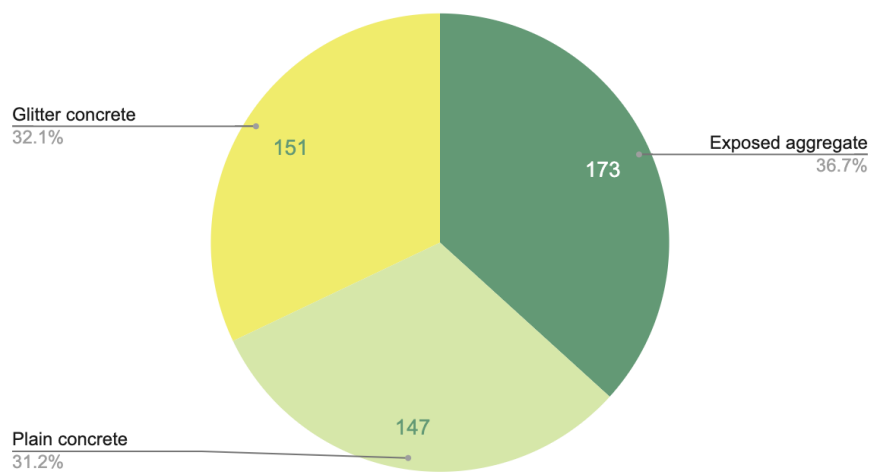
Relationship to Glen Ellyn



Sidewalk Materials

There are three sidewalk material options. The survey respondents are fairly evenly split on their preferred sidewalk material. Note: 471 people responded to this question.

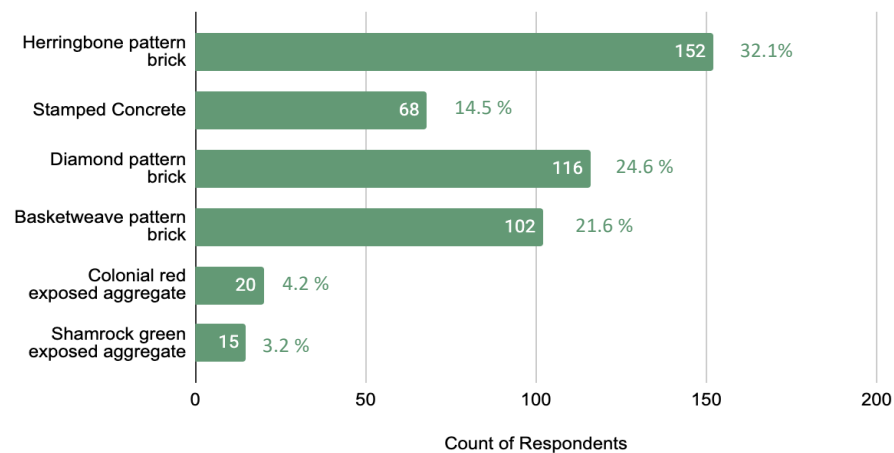
Preferred Sidewalk Material



Parkway Material

Brick is the preferred parkway material type; brick pavers in a herringbone pattern is the preferred design option. Thirty-two percent (32.1%) of respondents selected brick pavers in a herringbone design as their preferred parkway material pattern.

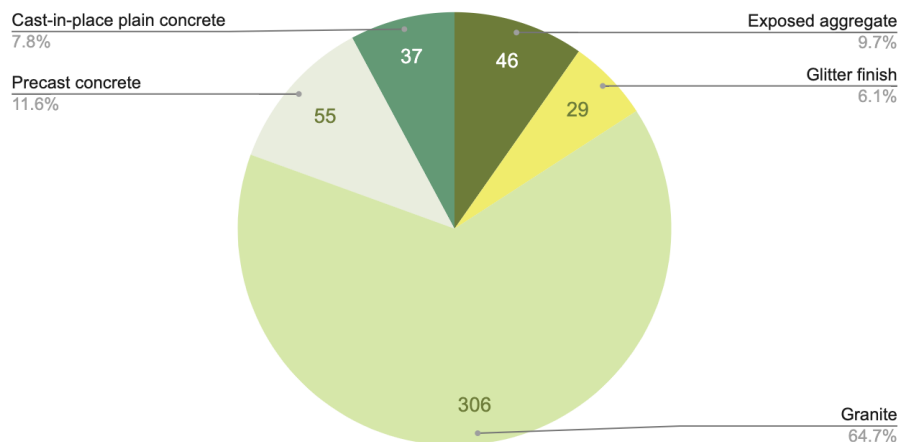
Preferred Parkway Materials



Tree Planter Curb

The granite curb is far and away the preferred tree planter curb option with sixty-four (64.7%) of respondents selecting granite as their preferred material.

Preferred Tree Planter Curb



Survey Comments

1	Basket weave pattern looks better in the small rectangular insets than herringbone. Diamond paver pattern is too busy. Glitter concrete will create too much glare in summer. Any cast in place concrete tree surround looks better than the pre-cast concrete, or the granite. Granite looks completely out of place; also costs a lot more. Shamrock green aggregate is UGLY - like someone vomited & stained the pavement
2	Beautification can be achieved with cost-effectiveness in mind. Please keep price of these materials low and not gouge residents to front an unnecessary expense.
3	Cool idea !!
4	DON'T GO OVER BUDGET!!!
5	For a timeless look that ages well, I love natural materials with integrity - granite curbs, herringbone brick, and exposed aggregate sidewalks - please avoid anything that looks too artificial or cheap; the quality of materials are the most important thing, and lend an air of quality to the whole town.
6	I like the inlaid tiles identifying historical sites
7	I like the tree planter curb flush to the ground
8	I prefer the square historic plaque
9	I question the construction of oversized buildings on our historic Main Street.
10	I would like the planters to be even with the sidewalks and not raised
11	I would prefer the stamped concrete herringbone over the brick paver herringbone, except that it has a terrible gloss finish that makes it look like cheesy plastic. Instead, use concrete with red dye integrated into the mix, and don't apply any finish on top.
12	I would prefer tree enclosures that are flush with the sidewalk. The raised curbs present an obstacle and tripping hazard and narrow the walking path
13	I'm interested in the cost differential of the materials. Because I might not make the same choices if the cost is vastly different.
14	Is there anything else you would like to share with us?
15	It would have been nice to know the relative costs, durability, environmental impact, etc. of each of the choices. But overall, thanks for asking!
16	Keep it classic:)
17	Keep the regular benches vs the granite ones. The black traditional benches look WAAAAY better, they are classic.
19	Keep up the great work improving & updating the downtown for our future.
20	Loved this idea to get the community involved!
20	Make it so the top of the curbs around the trees are level with the sidewalks
22	Park benches rather than marble benches! Get sidewalks even!
23	Please give your sidewalks names
25	Please keep black benches with back rests - not modern, low stone bench as shown in sample downtown

26	Please use grey herringbone brick for the parkway with darker diamond pattern instead of red brick!!
27	Pricing
28	Re: glitter concrete, respondent added "w/ sawcut joints & X pattern"
29	Respondent noted being a former resident of GE
30	Simple elegance would be my choice. All things break and the ability to repair is essential. Thank you for asking for input and good luck with the project.
31	Simple, traditional, and cost effective.
32	So fun! Thanks for letting us vote!
33	Spaces for outdoor dining are important and a street closed to pedestrians creates a fun inviting environment
34	Steer clear of anything with glitter.
35	Thank you for doing this!
36	Thank you for giving us a voice in this matter!
37	Thank you for letting me be a part of this decision and for all of the work that you do to keep our village charming!
38	Thanks for asking for our opinion.
39	Thanks for asking resident's opinions
40	Thanks for letting us vote
41	Thanks for the opportunity to weigh in
42	The curbs are not as important to me as the walkways. I like the idea of a nicer material than concrete for the parkways and that the diamond pattern could be weaved throughout our Glen Ellyn brand/story. I do not like the idea of glitter anything.
43	Tree planter curbs in colored concrete (such as black) may be a cost effective alternative to the granite, while still providing visual contrast.
44	Underground wires to protect trees
45	What type of scoring pattern with the concrete walks have?
46	While these styles are fun, I don't know the costs and I would not choose the more expensive options.
47	Awesome voting system! Thanks for letting us take a look and cast our vote!
48	Thanks for letting us have an opinion and we love that you're using google forms!
49	Trees are an important design & environmental element. Happy to see improvements in downtown area taking place.
50	My concern with most of the parkway materials is that it is very uncomfortable for someone in a wheelchair. Also, pavers have a tendency to move after the winter, are pulled up by snow moving equipment. And, if there is work it "temporarily" replaced by asphalt and takes a long time to replace.
51	Doing the prototypes was a great idea!

52	Really appreciate that u r doing this
53	Look forward to the improvements
54	A cost effective solution needs to be determined.
55	I also liked the bench in the granite. We really need places to sit and gather (once we get vaccinated).
56	Thanks for asking.
57	The only other thing that would affect my choices is knowing how these materials stand up to the test of time and elements. Thank you.
58	There are several really nice choices and it will make our downtown look elegant, historic and classy. Thank you for asking for our input. In our 27 years here, I don't recall ever being asked like we are now. Exciting.
60	Excited for this project!
61	I really support the idea of having historic plaques in the sidewalks to integrate a sense of history into the downtown. The mockups look great! Also, please keep in mind what it is like for wheelchair users as they ride over the sidewalk materials...some materials make for a bumpy ride! Thanks so much!
62	Upgrade the water fountains, eliminate driving on main st between Pennsylvania and hillside and instead have traffic go around in a split one-way fashion, then covert Main Street between Pennsylvania and hillside into a park-like setting with outdoor seating for dining and drinks.
63	Downtown is desperate for more parking, especially north of the tracks. Please don't ease parking space requirements for new developments.
64	I love being able to see all the samples in town, great idea! I love the more classic and historic looks.
65	MERRY CHRISTMAS
66	I like the flushed curb on the sidewalk side to decrease fall risk
67	It's going to look great once completed!
68	I recommend we go for classic/timeless materials that are easy to repair/maintain and not try to get too "fancy" or draw too much attention to the sidewalks. The store fronts and plantings should be the "heros", not the sidewalk.
69	Thanks for asking us!
70	I think the sidewalk and the tree planter curbs should be made of the same material but I like the look (shape) of the precast concrete. Can you have precast tree planter curbs with glitter to match the glitter concrete sidewalks?
71	I'm opposed to raised tree planter curbs for several reasons: (a) they're a tripping hazard, and will result in injuries and associated liabilities to the village; (b) they greatly restrict those with mobility issues and/or wheelchairs or walkers; (c) they're confusing to navigate for those with vision impairments; (d) they make shoveling and snow removal more challenging; (e) they eliminate several linear feet of access when stepping up from the street to the sidewalk. I think choosing to install raised tree curbs is an expensive short-sighted cosmetic decision with a far reaching negative financial and functional impacts on visitors, residents, and business owners.
72	just don't do the Stamped Concrete. it doesn't look authentic.
73	Consider adding historical marker bricks

75	Historical markers should be added giving the feel of timelessness to a new project
76	Historical markers should be included
77	Please don't remove the mature trees on Main Street!
78	Please incorporate historical site plaques in the sidewalks
79	Thanks for letting us provide input
80	I love the idea of historical plaques in the sidewalks.
81	Keep it timeless/classic to withstand time, in look and durability, keep it realistic for budget (really need granite planters?) and don't make walks too patterned (visually disorienting),
82	The tree planter curbs are a TERRIBLE idea. I only selected one as the survey does not provide the option to select "NONE". Has anyone taken the time to observe the temporary installations and how pedestrians interact with them? 1. They remove pedestrian space on the sidewalks. 2. They are an impediment to movement and the free flow of foot traffic, especially in places where the sidewalk narrows. 3. Strollers will bump into them, bikes (even walked) will bump into them, pedestrians will trip over them. 4. It is possible that the bottom of parked car doors may even hit them (thus the need for observation). 5. Why are decorative tree grates not being considered? They are more visually appealing as they create a seamless appearance to the sidewalk and they do not inhibit pedestrian traffic flow. I hope that you strongly reconsider these planter curbs. I have a Master of Landscape Architecture degree and I know, from education and practice, that better options exist.
83	Tree planter should be flush with sidewalk. Makes sidewalk functionally wider , less tripping hazard , corners not peed on by dogs. I understand there may be an watering issue I like the planter that is in the middle example along Crescent
84	I support the historical sidewalk plaques.
85	What's the cost difference on options? I only want my votes to count if I selected the top 1 or 2 most affordable options (including long term maint). Otherwise change by choices to most cost effective
86	I think the historical plaques are a great idea! And will add a sense of our community's history to the downtown.
87	Love to see the historic plaques!!!
88	Pay close attention to the tree planter curbs when marking the placement of parking spots. I could not get out of our car on the passenger side when we parked next to the tree planter curbs by Em&M's. Just make sure the parking spots are staggered in a way so as to not line up car doors with those curbs.
89	Keep clean lines, simple design and timeless feel.
90	Please don't cut down the trees. I was already opposed, but after seeing the lights on the trees this holiday season, it made me even more against a mass cutting. If a tree needs to be replaced because of disease, then go ahead. Or even just a few a year would be ok. The thought of having many fewer mature trees in downtown is horrifying. Replacing these mature trees with saplings will deprive us of green and shade and the spectacular holiday lighting. It'll take 20 years to get back the mature tree charm we currently have. Nice pavers, etc. are nice, but the mature trees are essential.

91	Glitter is tacky. The brick pavers along Roosevelt never stay in place and seem to be in constant need of repair. Brick can look nice but you need a better contractor than you used along Roosevelt Rd. Also balancing cost and design is important. Extra labor and constant repair make brick less cost effective.
92	Please choose things that are durable and won't break easily in our winters.
93	Exposed aggregate, stamped concrete and pavers have durability issues.
94	I support historical sidewalk plaques.
95	I am excited about the idea of historical markers in the sidewalks throughout the downtown to highlight Glen Ellyn's history.
96	SALT! Will the bricks hold up to winter salting?
97	No to polished granite if it goes that way.
98	Will our taxes go up depending on the choices?
99	I searched in vain for this survey on the Village web site. Who is sponsoring this vote? Why is this not on the Village web site?
100	The history of our village is a vital part of the Glen Ellyn community and should be remembered in an interesting way. The plan to have small plaques identifying historical location is a creative and appropriate way to preserve this history for both villagers and visitors.
101	Be sure to consider "repairability" over time. When work needs to be done in these areas and sidewalks torn up and repaired. How easy and how expensive will these area be able to be fixed 10-20 years from now. Will they even offer glitter concrete?
102	Please keep in mind that these areas will take a beating when snow removal is needed. We do not to do something that will be hard to maintain. Also please consider safety with the wear and tear that will happen.
103	The granite curbs should have quirk mitered corners to prevent chipping and for improved durability.
104	have you considered cobblestone brick pavers for the entire sidewalk? seems like an odd aesthetic to have part of the walking surface in concrete and part in brick... why not all, especially for the core downtown (main street, crescent and pennsylvania). oak park does this to great effect. the metra parking lot west of main is also a terrific example. thank you!
105	It's hard to determine which is best without the price attached to it. I love the look of real bricks for the parkway, but the stamped concrete gives a similar look for likely a big cost savings (?). Regardless, I don't like the glitter options. But the other options are all fine. I would lean towards real brick and real granite if we can afford it. If we need cost savings, I would vote for stamped concrete and aggregate curbs
106	Any new buildings should have the vintage GE vibe, not modern!
107	Beveled curbs looked better than squared
108	As a life-long Glen Ellyn residents I think it is very important to have historical markers placed on the new walkway. It is important to keep Glen Ellyn's rich history alive for our residents, new comers and visitors. I feel this would be an enjoyable addition to the new streetscape plan.
109	Yes, please support the inclusion of the historical markers for the street scape plan! They will add so very much to a GE experience and the kids could go on a hunt to learn GE history!
110	I like the idea of the historic plaques in the sidewalk, to commemorate Glen Ellyn's long history.

111	So happy about this project!
112	Thank you for letting me vote for this much needed project. I don't know which of these options are the most durable, and voted for appearance only. I hope the choices given are equal in quality. I am thrilled about all of the new housing and parking coming soon. It is very much needed to grow our town and save our businesses. I've been a GE business owner for 16.5 years and look forward to our growing future and sustainability. It's going to be beautiful thank you. Karen Irish
113	I would like to vote for including historical sidewalk plaques. But these should be kept to a minimum and reflect only the most significant structures in town.
114	The darker granite tree planter curb will go nicely with the dark lamp posts and benches in downtown. The darker bricks that form the diamond pattern, will bring those elements together. The subtle sparkles in the glitter sidewalk will add ambiance in the sunshine, moonlight, and evening streetlamp light. Thank you for making our downtown beautiful! And the chance to give input!
115	I would recommend incorporating low wrought iron fencing on the planters, similar to what the City of Chicago uses.
116	Diamond historical plaques
117	Hi! I grew up in Geneva and really like how they have preserved and updated their downtown. They have the street names tiled on the sidewalk in the historic downtown area and i've always thought that is really nice touch—just a thought!
118	Love the idea of historical markers in the sidewalks!
119	Love this! For parkway I'd go with whatever brick or brick like material will be the most durable
120	Glad to see these updates coming. However, mature trees and additional planters will be key as well.
121	I'm a designer and public spaces artist, so I'm very glad you are taking the time to carefully consider the materials of our public spaces in Glen Ellyn.
122	Diamond pattern sidewalk cuts provide a refined look especially combined with herringbone brick pattern
123	If costs were included it could influence my choices
124	Historical sidewalk plaques. We saw these in Independence, MO and they definitely added to the historical appeal of the town. Makes the town more interesting, too. Fun to walk around and read the plaques. May help in your pavement decisions if you do this. Please seriously consider this idea. The more you think about it, the more you'll like it.
125	I work for a reputable Landscape company as an Estimator. We are Union Local 150 along with being a WBE. We would be interested in providing a bid for this work if possible.
126	Please take into consideration how the design of walkways can impact those who have visual impairments like me or for senior citizens who may have trouble walking & use a cane or walker. Lighter in color is better & flat surfaces to prevent anyone from tripping. Also concerned about "glitter" finish when walking with dog so it doesn't get on their paws & possibly be ingested. Thanks!
127	Go with affordable choices and cut back as much as possible
128	I was impressed with the building materials and it was difficult to choose what I liked best.

Customer Intercept Survey Photos

Saturday, November 7, 2020

11 am – 1 pm

Main and Crescent, Downtown Glen Ellyn

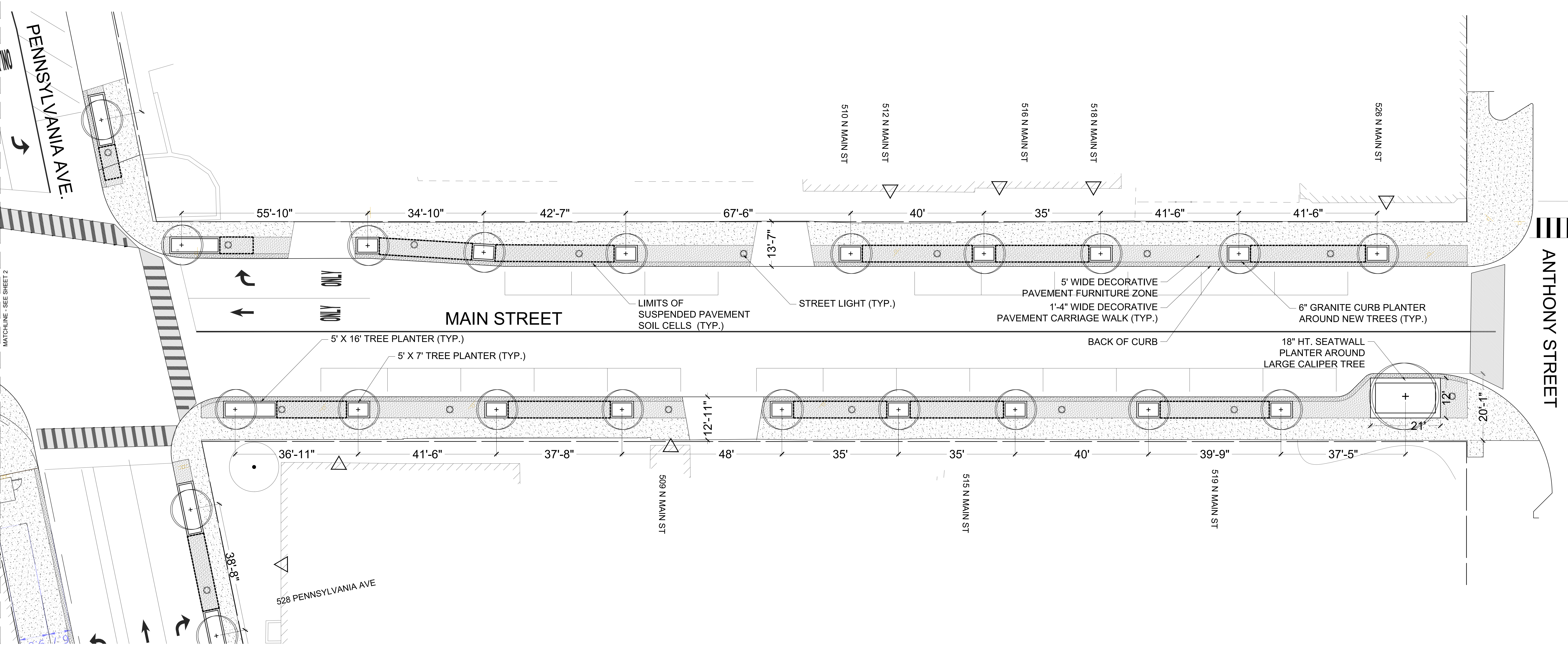


Thursday, November 19, 2020

4 pm – 6 pm

474 N Main Street





MAIN STREET

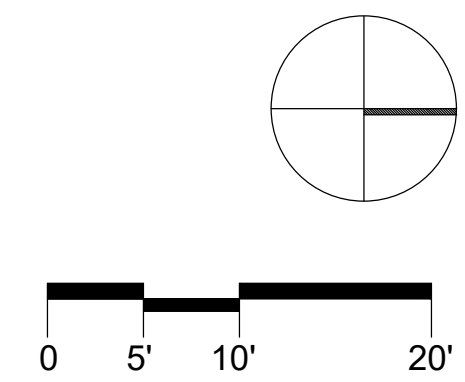
ANTHONY TO PENNSYLVANIA

GLEN ELLYN CBD STREETScape

DRAFT CONCEPT PLAN

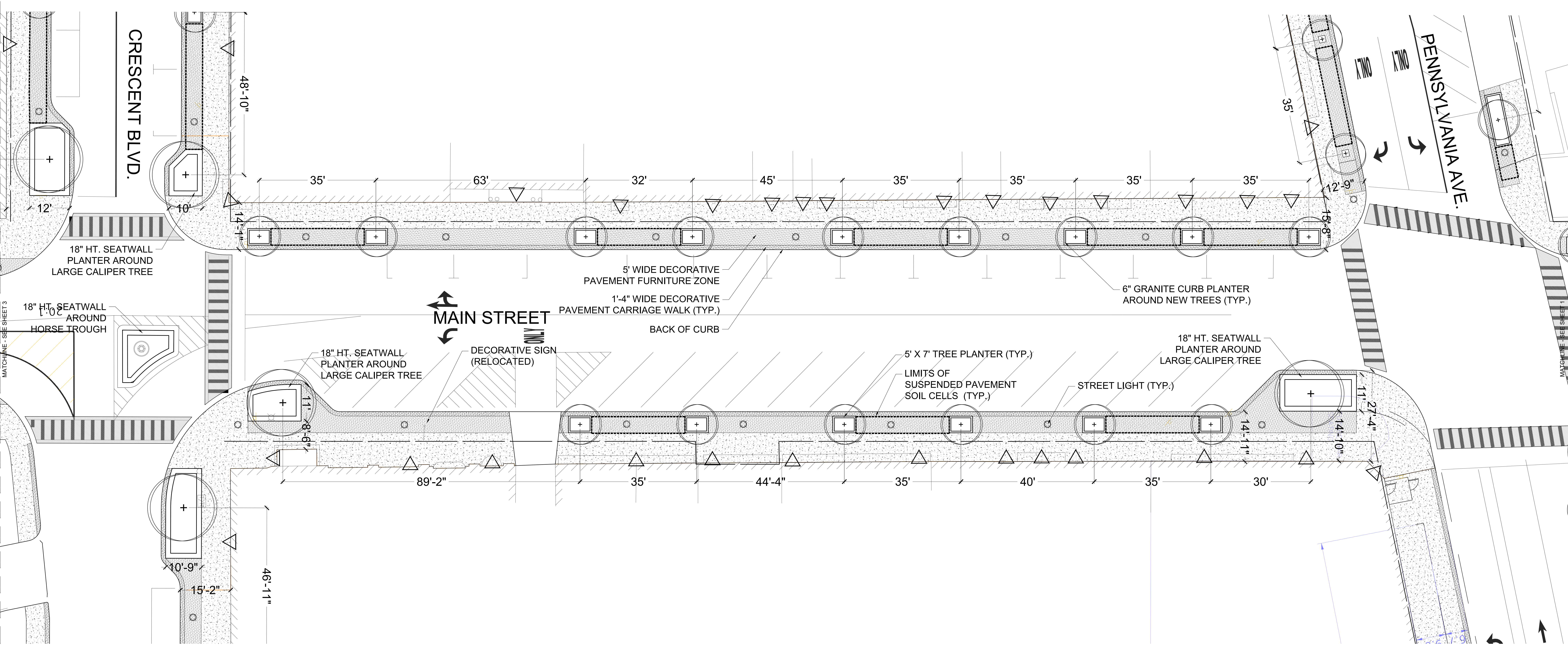


LEGEND	
	EXISTING TREE TO REMAIN
	PROPOSED TREE
	CONCRETE SIDEWALK
	DECORATIVE PAVING
	LIMITS OF SUSPENDED PAVEMENT SOIL CELLS
	STREET LIGHT
	BUILDING RETAIL/RESTAURANT ENTRANCE



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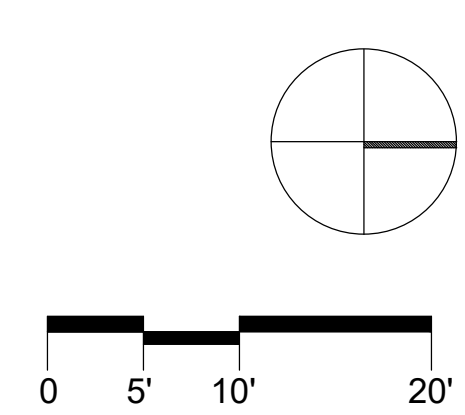
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	STREET LIGHT
	BUILDING RETAIL/RESTAURANT ENTRANCE

MAIN STREET

PENNSYLVANIA TO CRESCENT

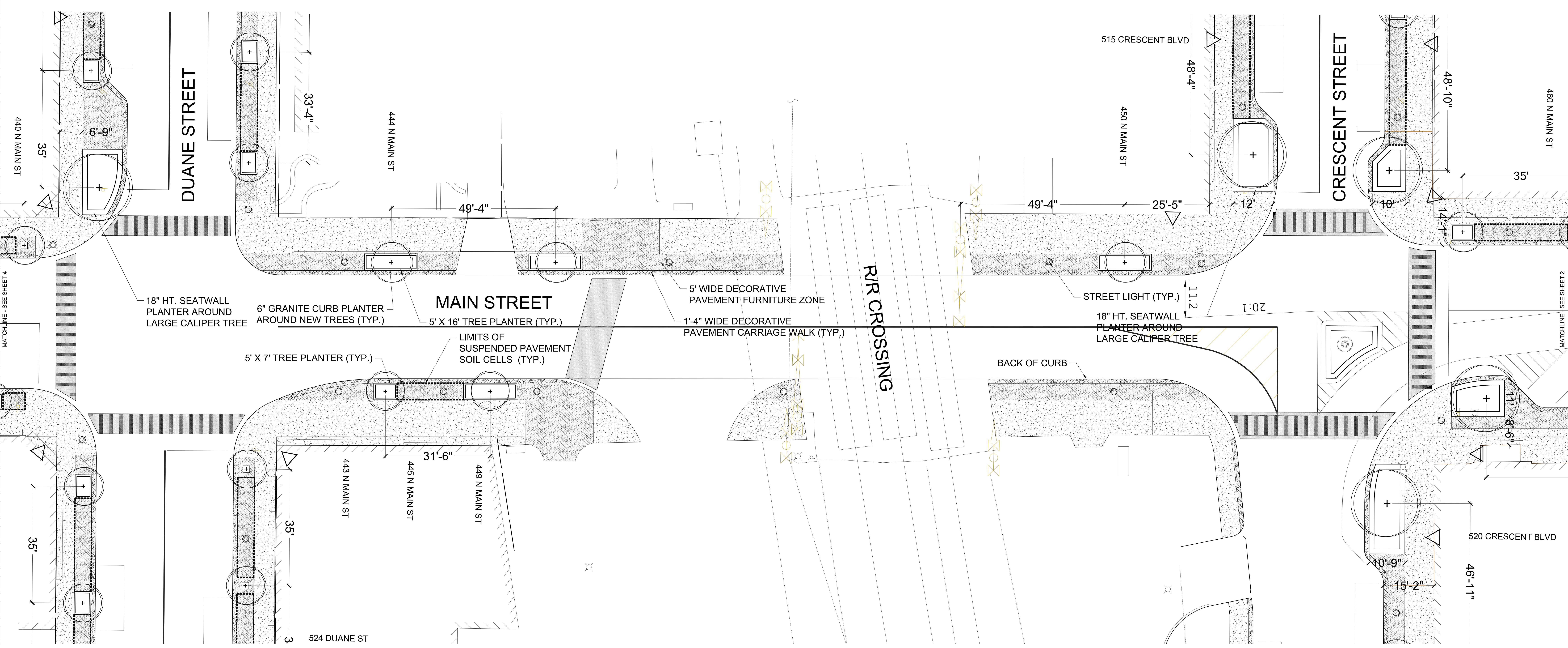
GLEN ELLYN CBD STREETSCAPE

DRAFT CONCEPT PLAN



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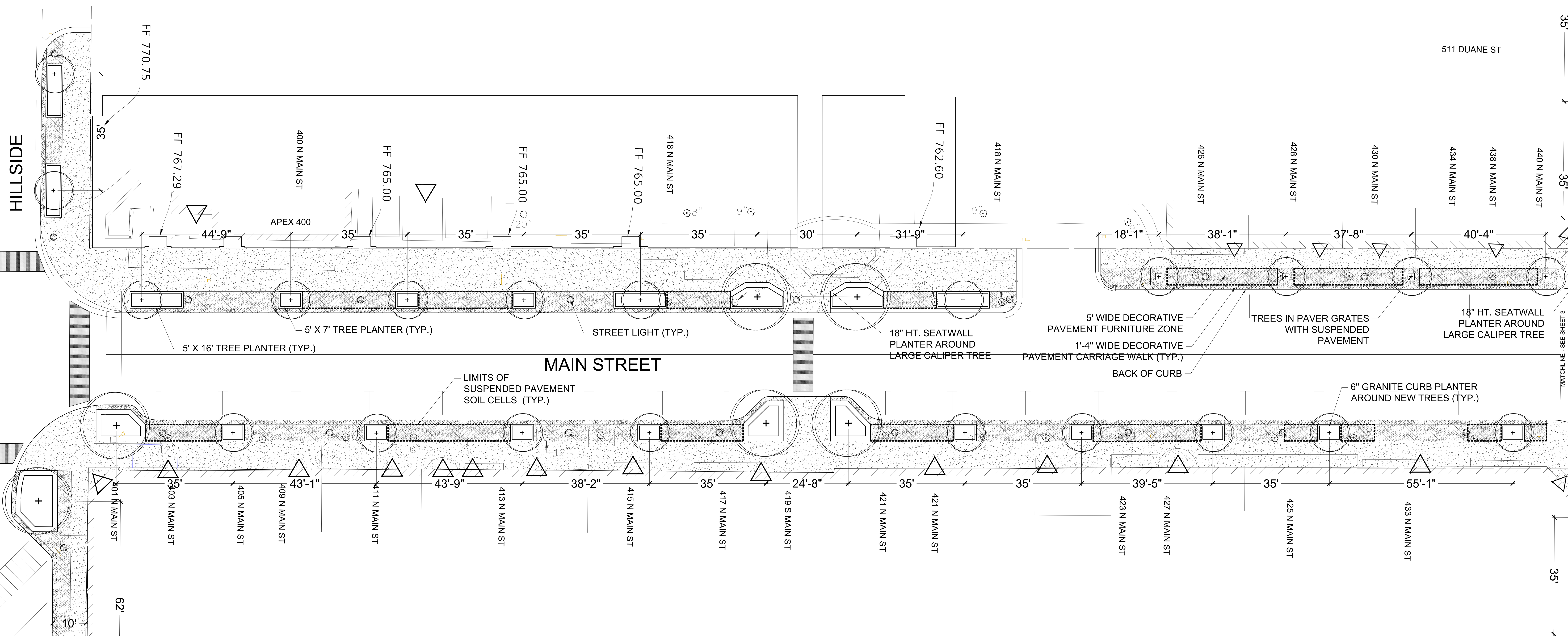


LEGEND

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	CONCRETE SIDEWALK
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	STREET LIGHT
	BUILDING RETAIL/RESTAURANT ENTRANCE

MAIN STREET
CRESCENT TO DUANE

GLEN ELLYN CBD STREETSCAPE
DRAFT CONCEPT PLAN



MAIN STREET

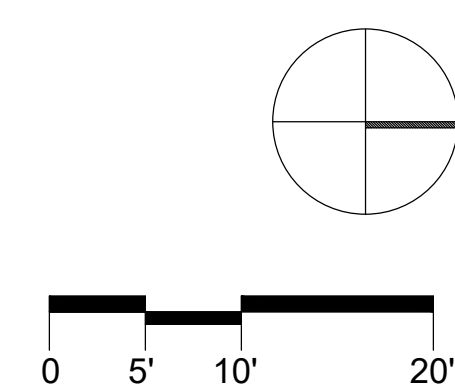
DUANE TO HILLSIDE

GLEN ELLYN CBD STREETScape

DRAFT CONCEPT PLAN

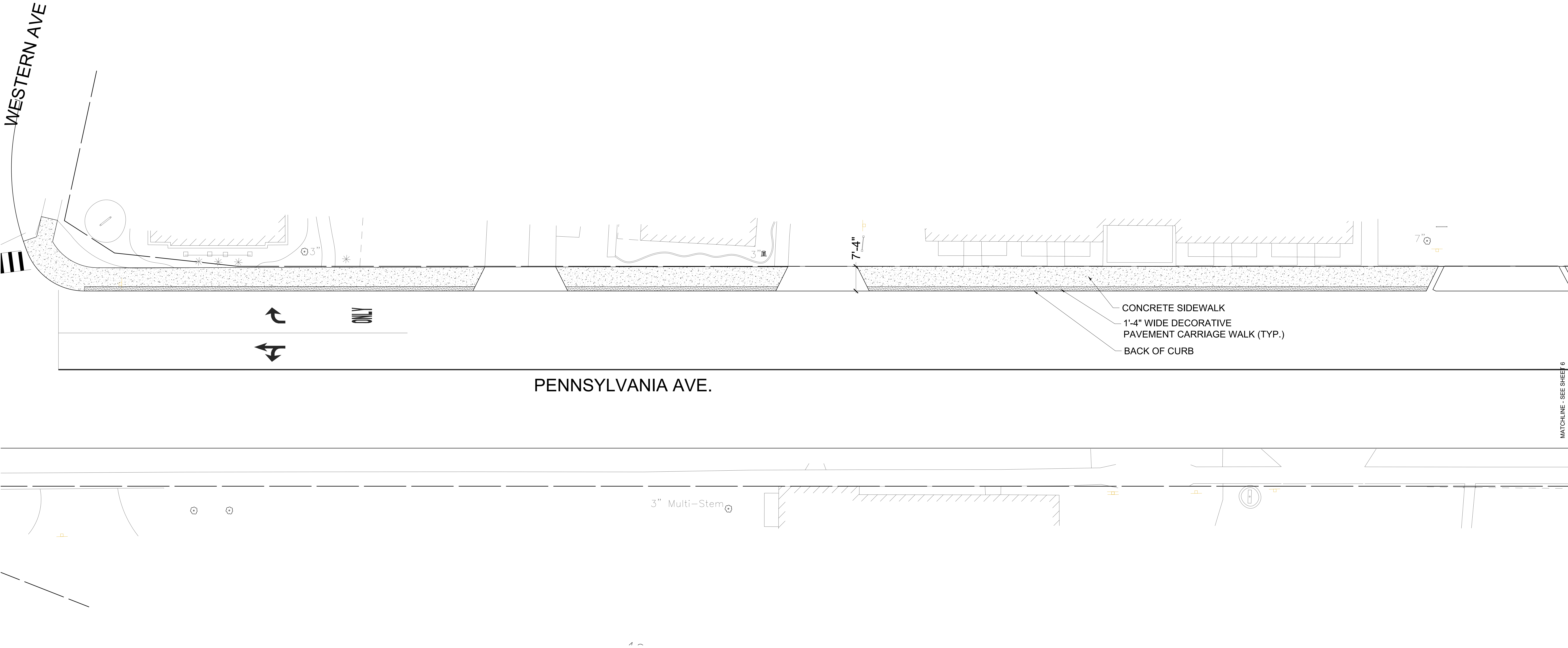
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	CONCRETE SIDEWALK
	DECORATIVE PAVING
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	STREET LIGHT
	BUILDING RETAIL/RESTAURANT ENTRANCE



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WESTERN AVE

PENNSYLVANIA AVE.

CONCRETE SIDEWALK
1'-4" WIDE DECORATIVE
PAVEMENT CARRIAGE WALK (TYP.)
BACK OF CURB

3" Multi-Stem

MATCHLINE - SEE SHEET 6

LEGEND

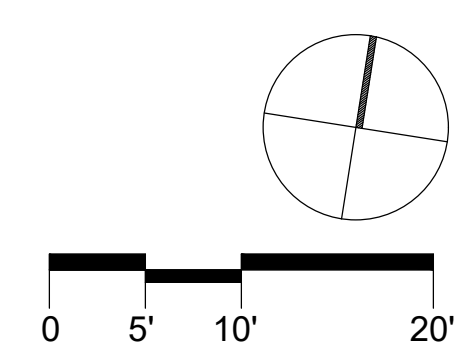
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	LIMITS OF SUSPENDED PAVEMENT SOIL CELLS
	STREET LIGHT
	BUILDING RETAIL/RESTAURANT ENTRANCE

PENNSYLVANIA AVE.

WESTERN TO PROSPECT

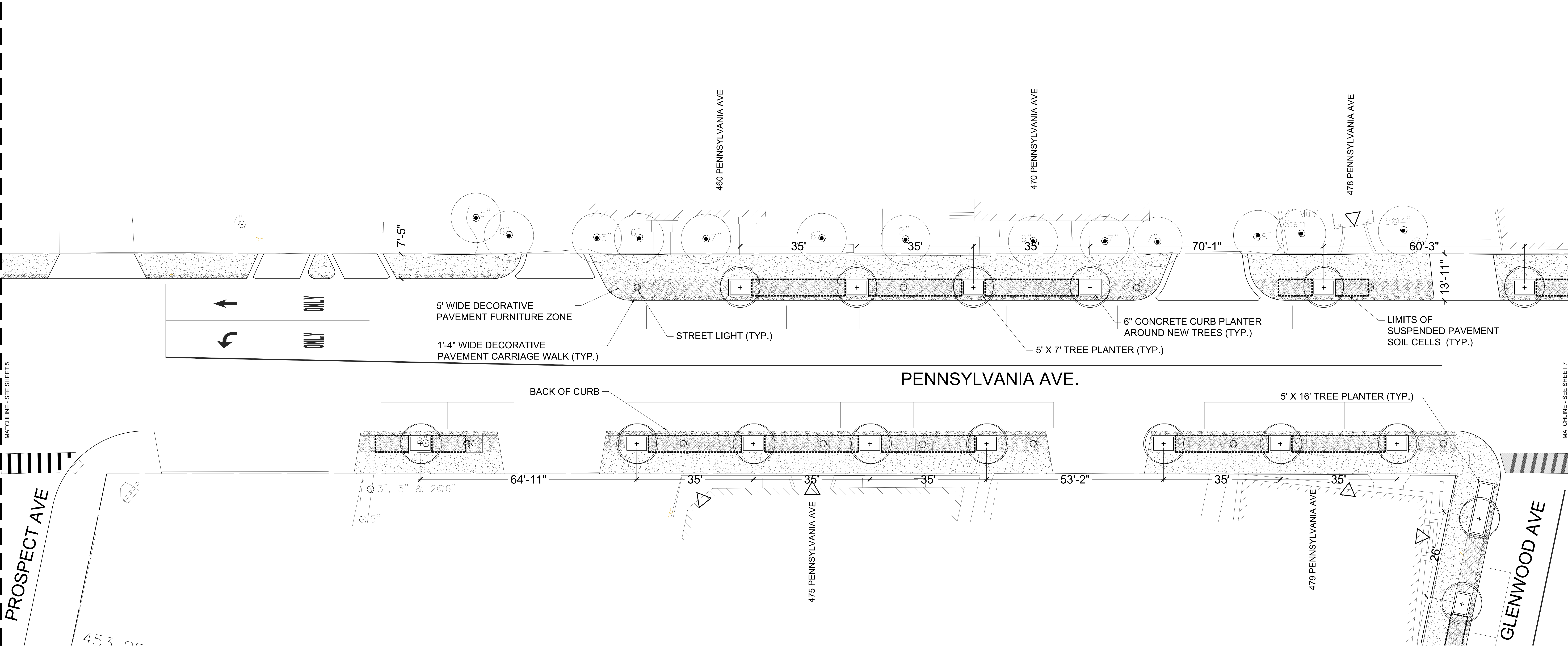
GLEN ELLYN CBD STREETSCAPE

DRAFT CONCEPT PLAN



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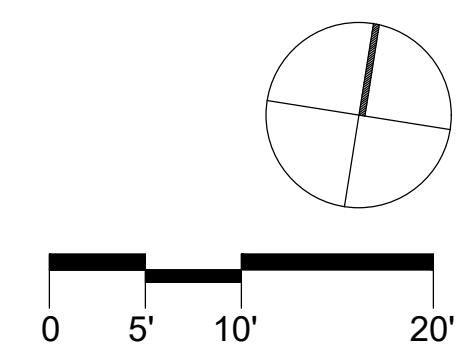
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	BUILDING RETAIL/RESTAURANT ENTRANCE

PENNSYLVANIA AVE

PROSPECT TO GLENWOOD

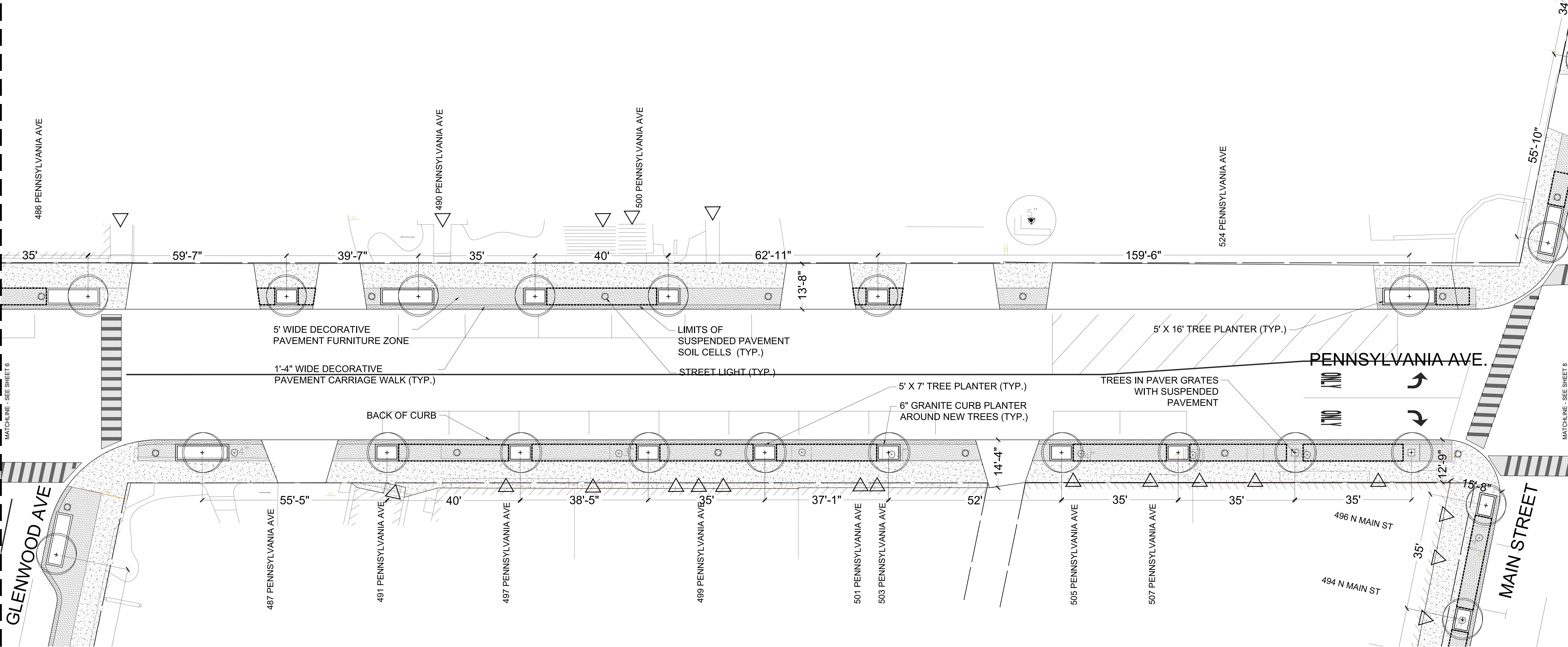
GLEN ELLYN CBD STREETScape

DRAFT CONCEPT PLAN



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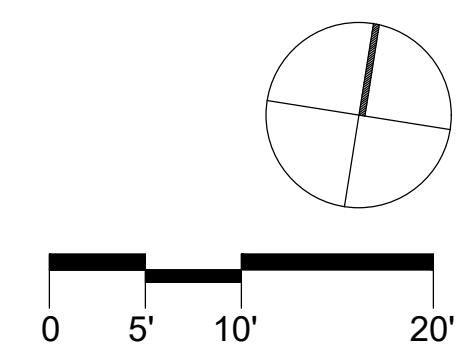
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PENNSYLVANIA AVE

GLENWOOD TO MAIN

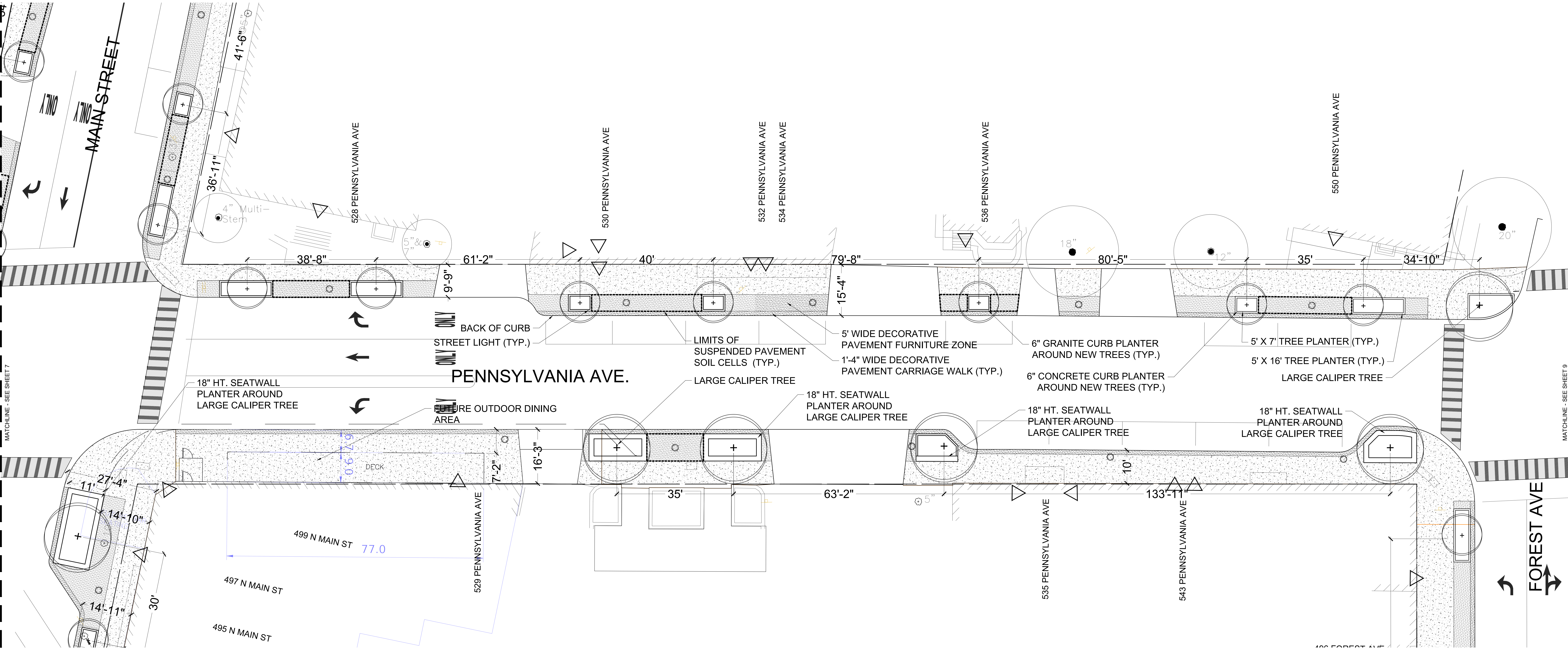
GLEN ELLYN CBD STREETScape

DRAFT CONCEPT PLAN



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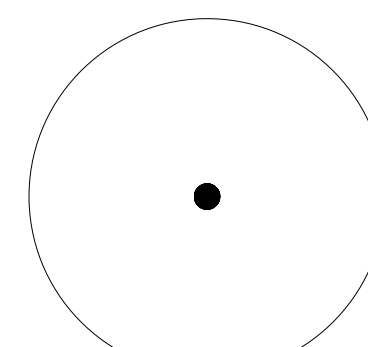
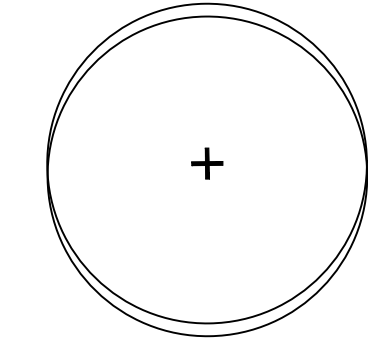
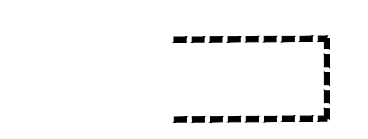
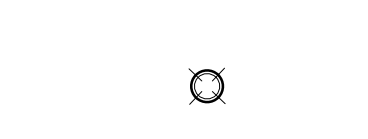
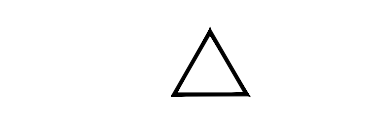






VILLAGE OF GLEN ELLYN
1834

LEGEND

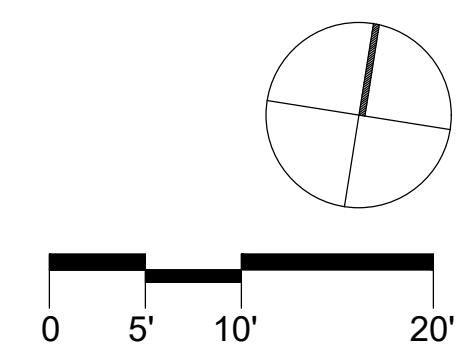
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	DECORATIVE PAVING
	LIMITS OF SUSPENDED PAVEMENT SOIL CELLS
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	BUILDING RETAIL/RESTAURANT ENTRANCE

PENNSYLVANIA AVE

MAIN TO FOREST

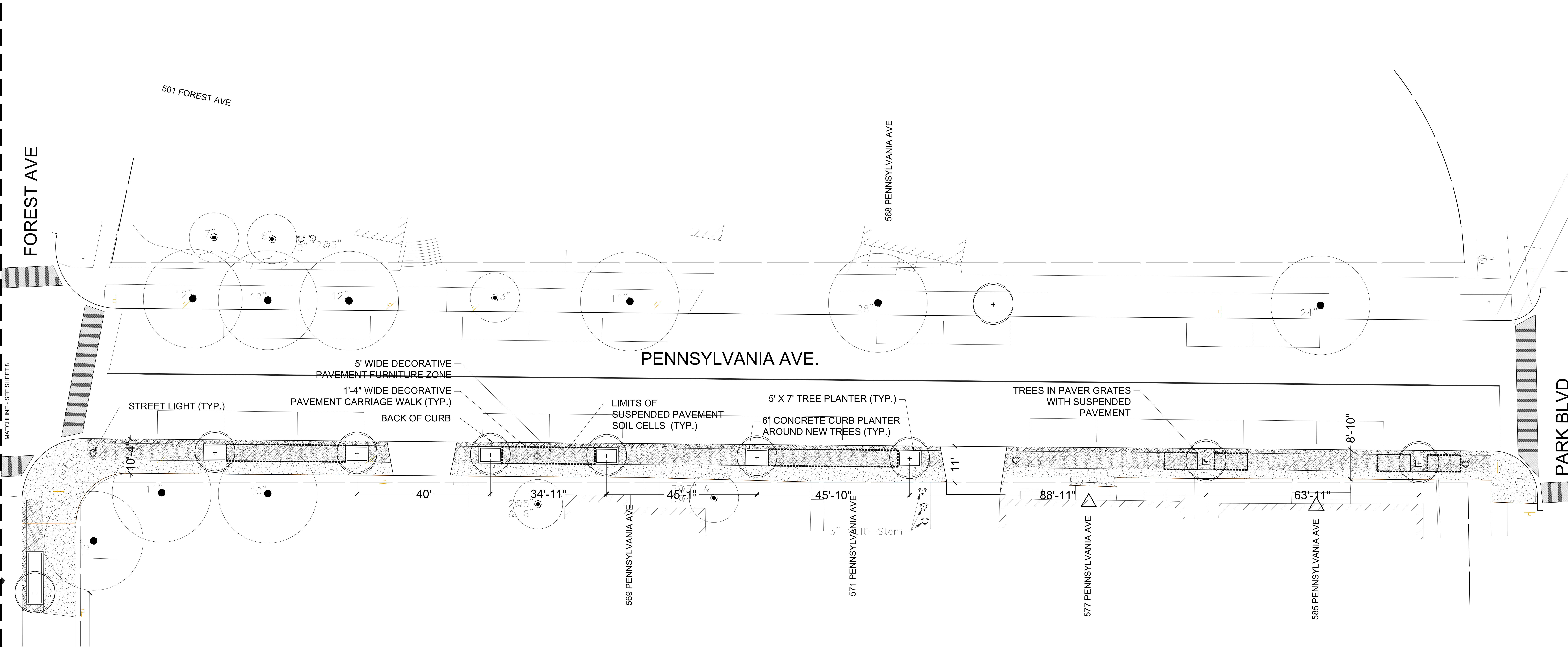
GLEN ELLYN CBD STREETScape

DRAFT CONCEPT PLAN



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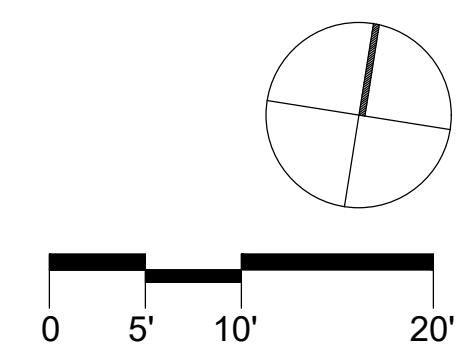
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PENNSYLVANIA AVE

FOREST TO PARK

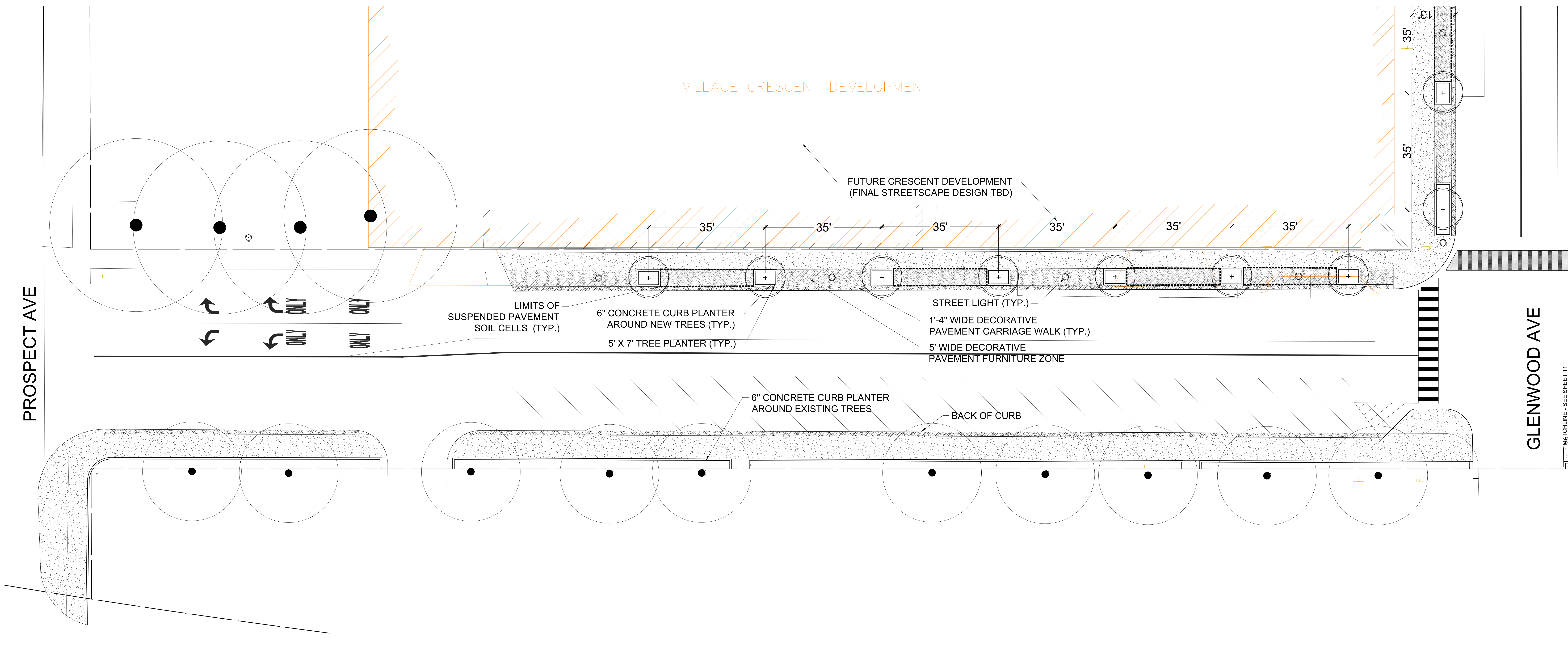
GLEN ELLYN CBD STREETSCAPE

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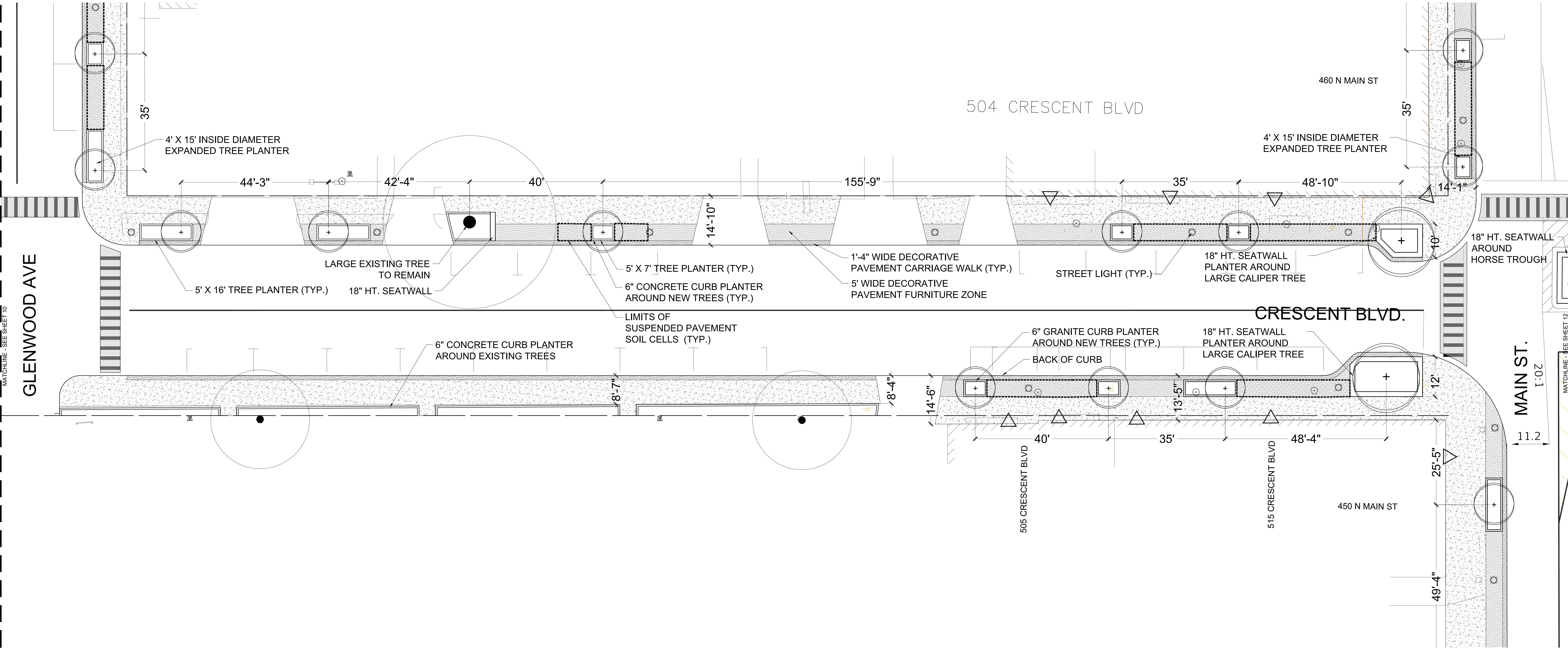


LEGEND

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	CONCRETE SIDEWALK
	DECORATIVE PAVING
	LIMITS OF SUSPENDED PAVEMENT SOIL CELLS
	STREET LIGHT
	BUILDING RETAIL/RESTAURANT ENTRANCE

CRESCENT BOULEVARD
PROSPECT TO GLENWOOD

GLEN ELLYN CBD STREETSCAPE
DRAFT CONCEPT PLAN



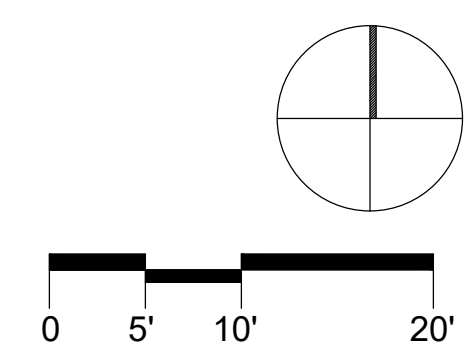
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CRESCENT BOULEVARD

GLENWOOD TO MAIN

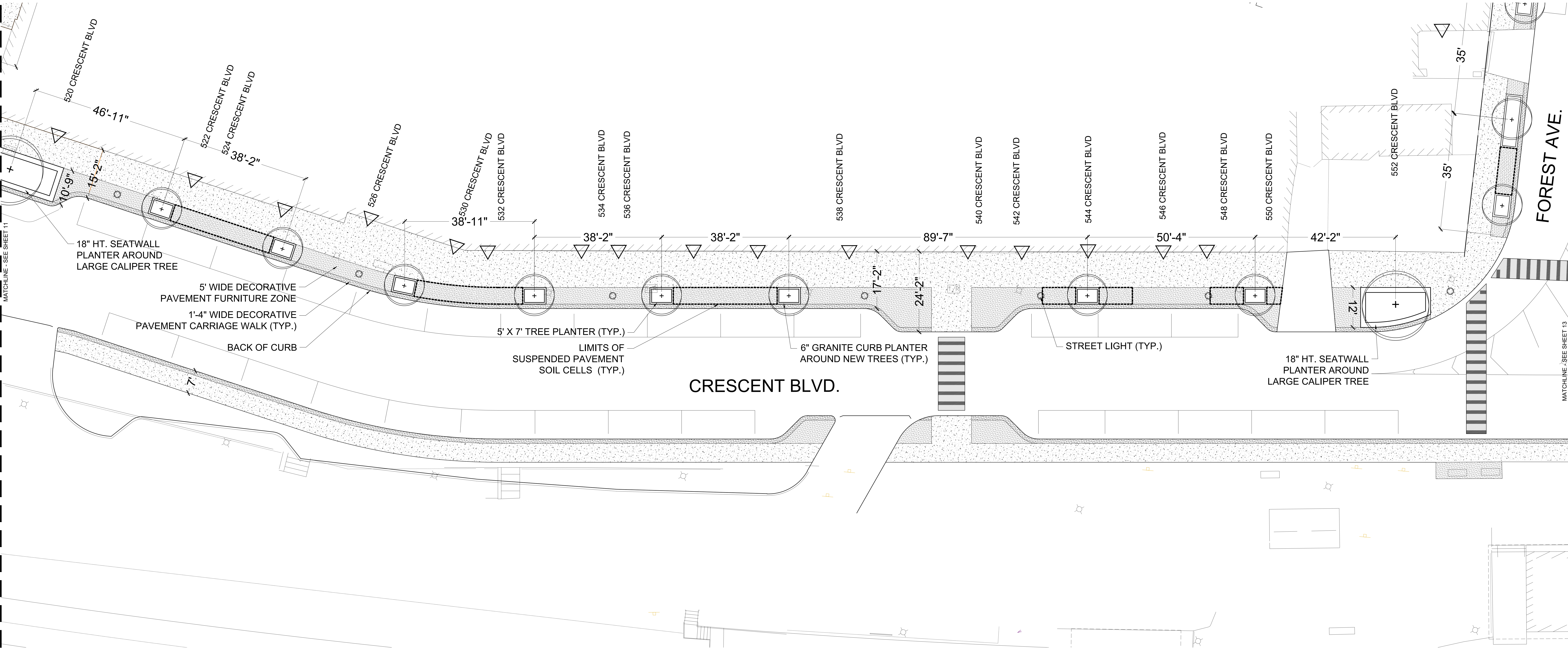
GLEN ELLYN CBD STREETScape

DRAFT CONCEPT PLAN



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LEGEND

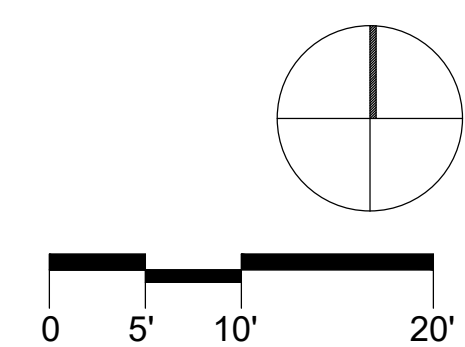
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	BUILDING RETAIL/RESTAURANT ENTRANCE

CRESCENT BOULEVARD

MAIN TO FOREST

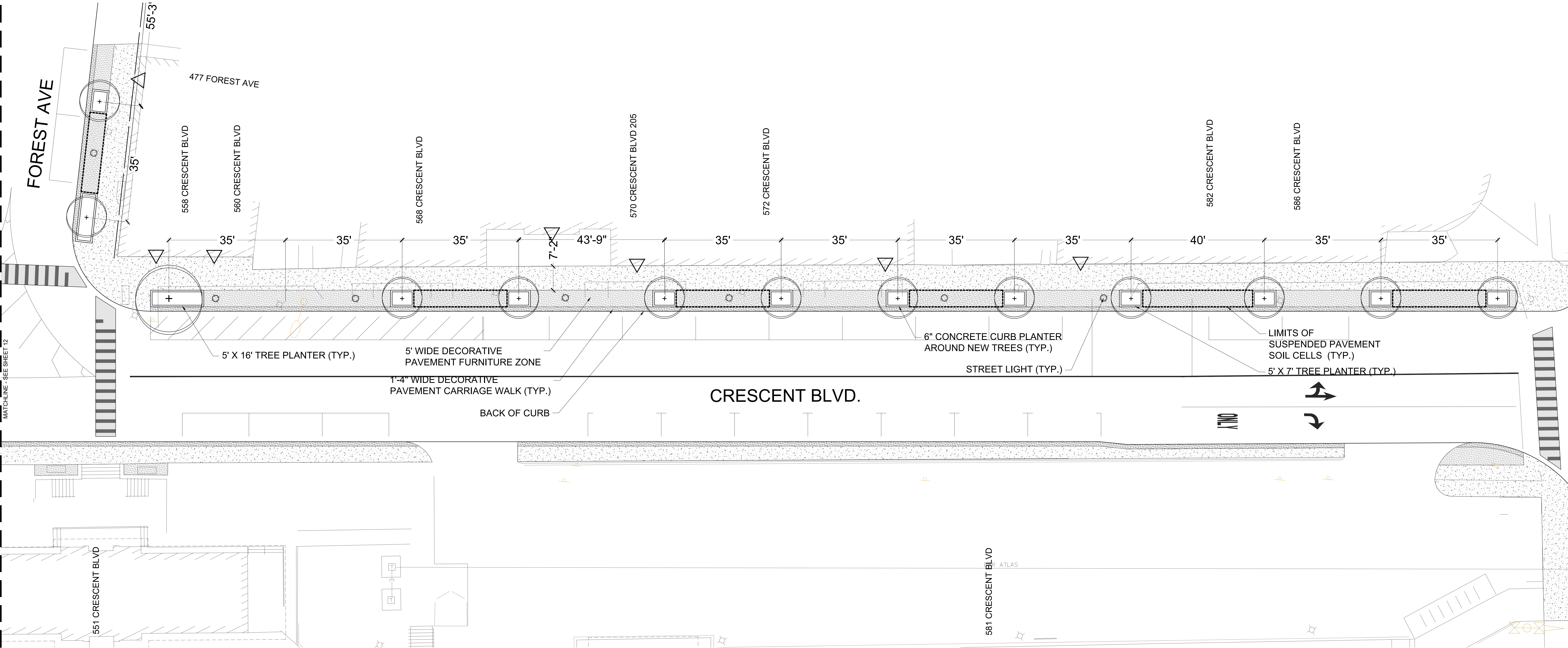
GLEN ELLYN CBD STREETScape

DRAFT CONCEPT PLAN



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LEGEND

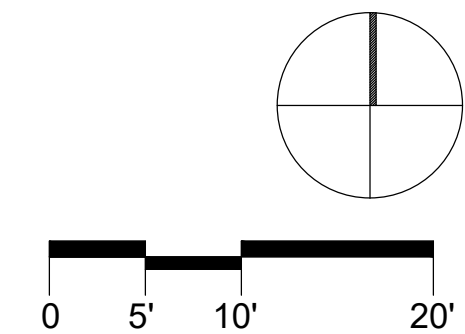
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CRESCENT BOULEVARD

PROSPECT TO GLENWOOD

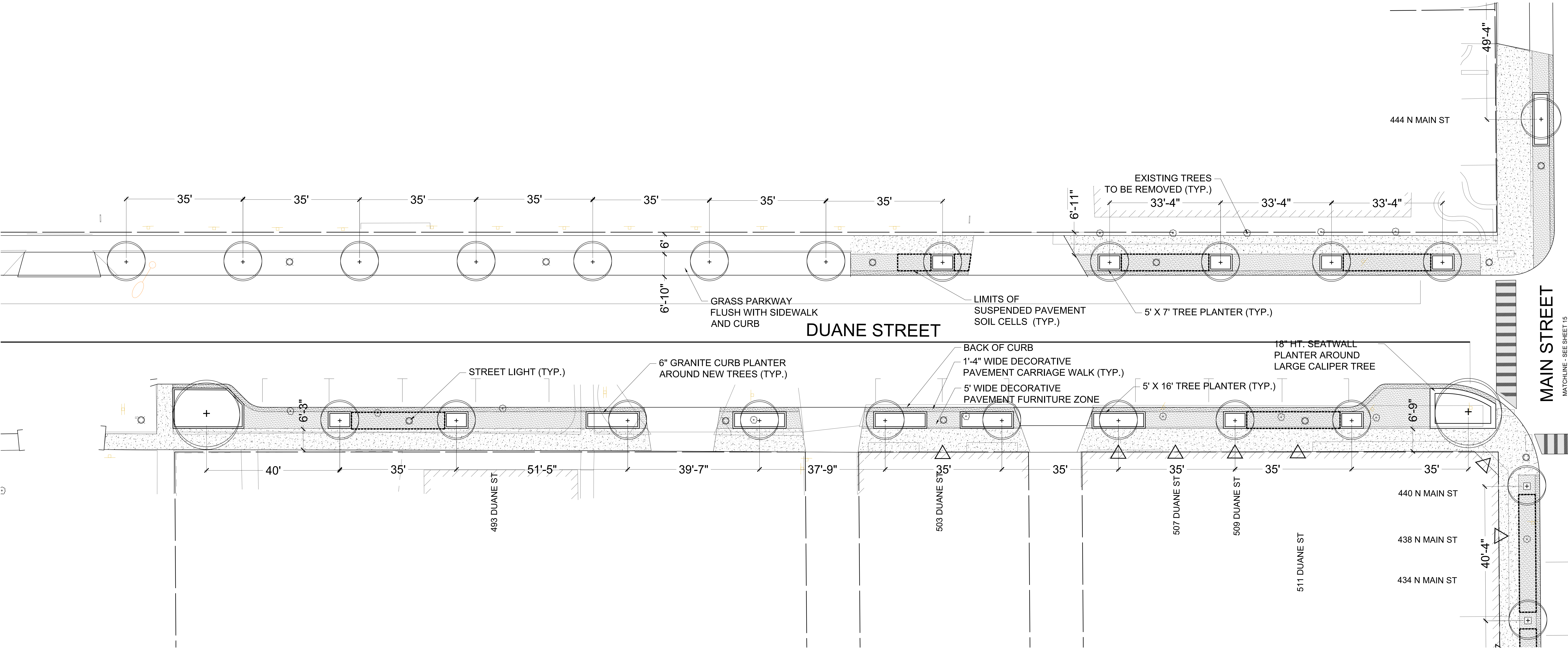
GLEN ELLYN CBD STREETSCAPE

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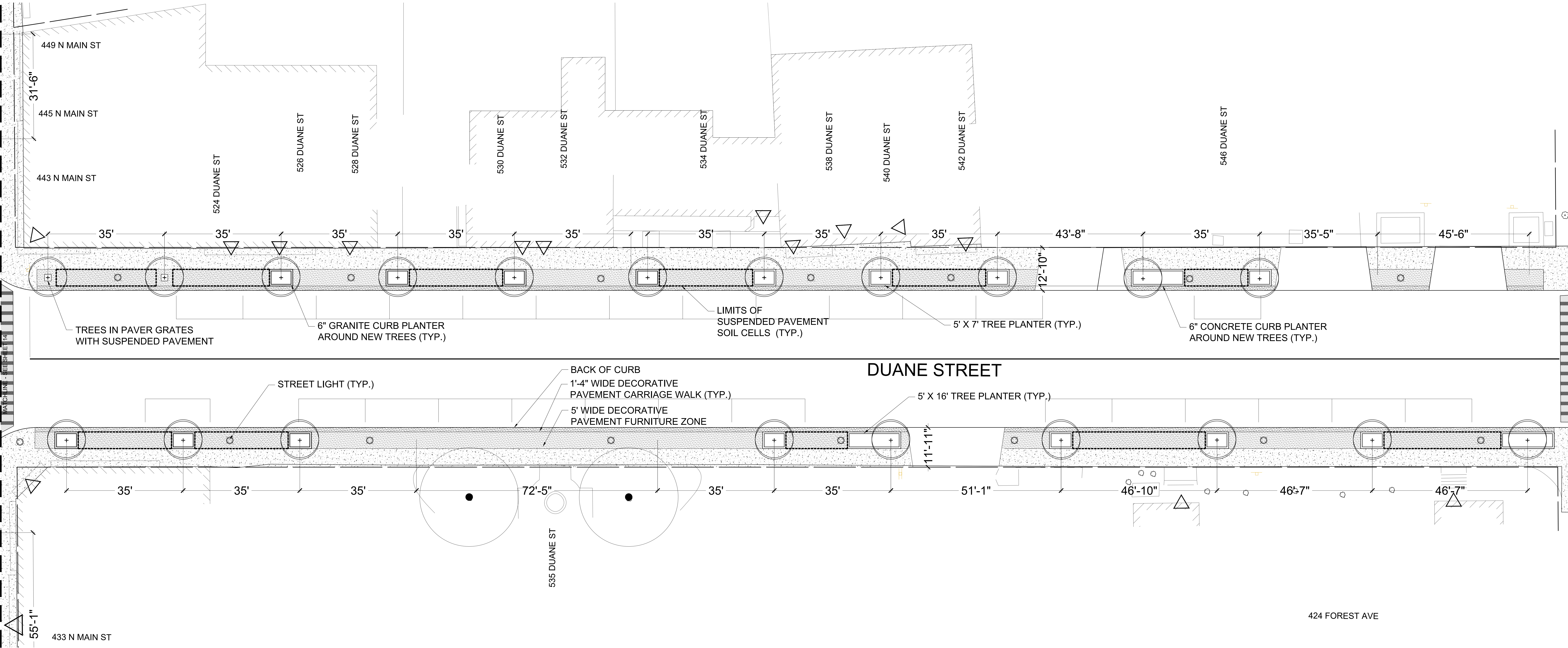


LEGEND

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	BUILDING RETAIL/RESTAURANT ENTRANCE

DUANE STREET
GLENWOOD TO MAIN

GLEN ELLYN CBD STREETSCAPE
DRAFT CONCEPT PLAN

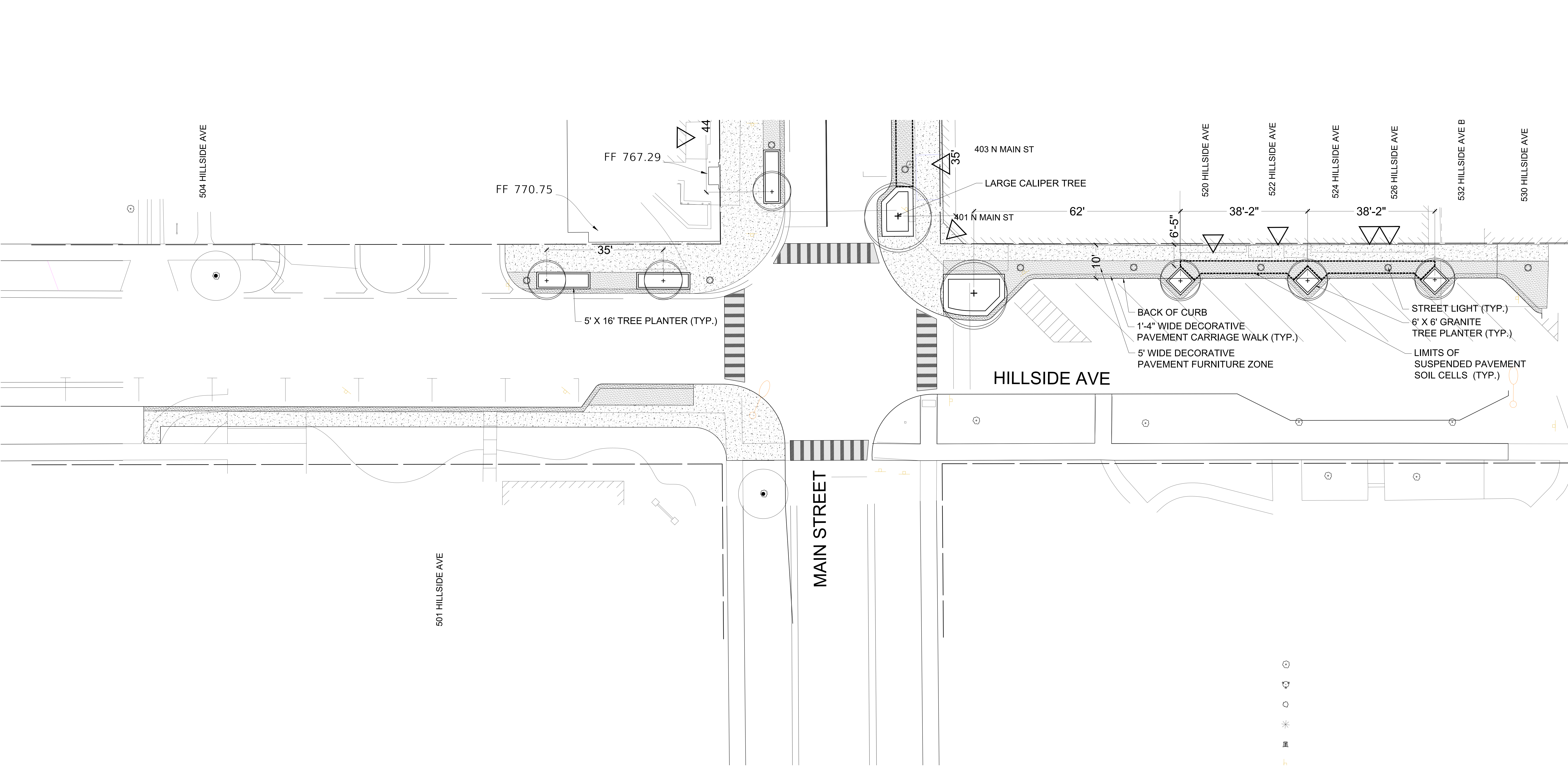


LEGEND

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DUANE STREET
MAIN TO FOREST

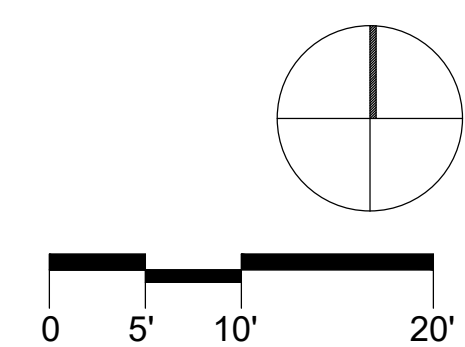
GLEN ELLYN CBD STREETSCAPE
DRAFT CONCEPT PLAN



LEGEND	
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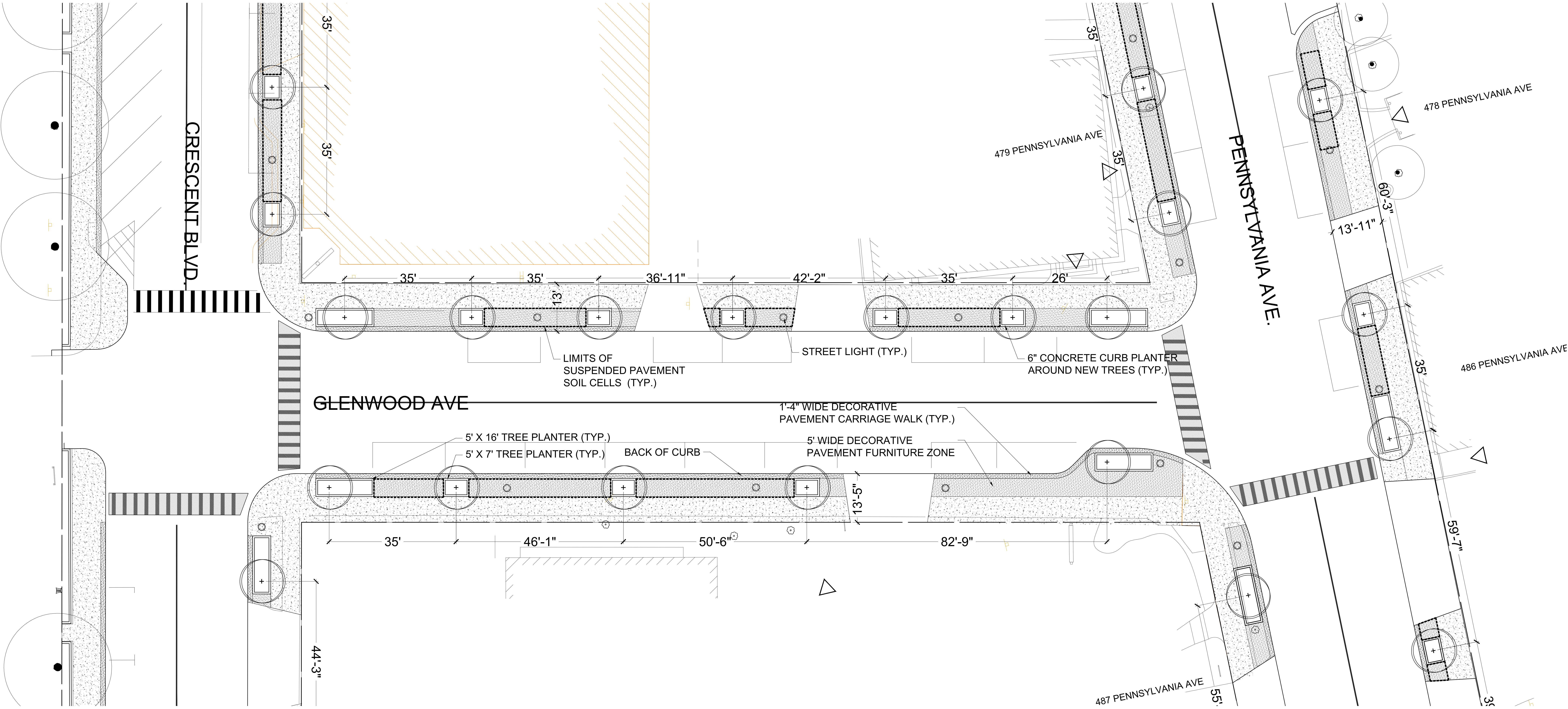
HILLSIDE AVENUE AT MAIN

GLEN ELLYN CBD STREETScape DRAFT CONCEPT PLAN



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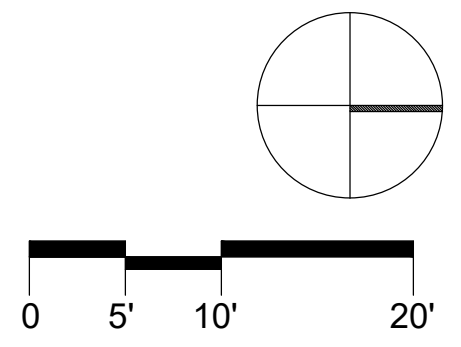
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GLENWOOD AVE

CRESCENT TO PENNSYLVANIA

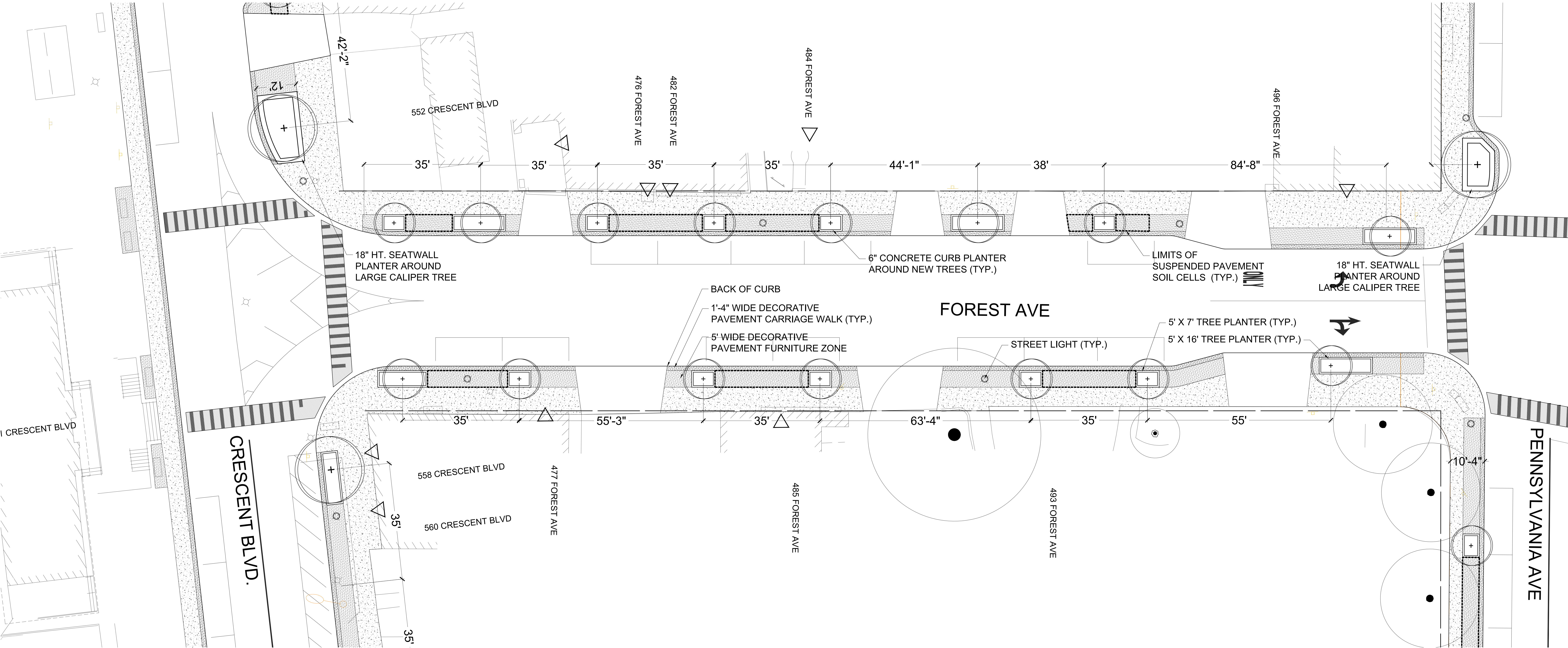
GLEN ELLYN CBD STREETScape

DRAFT CONCEPT PLAN



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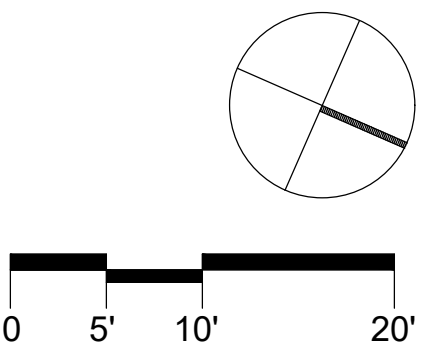


LEGEND

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FOREST AVENUE
CRESCENT TO PENNSYLVANIA

GLEN ELLYN CBD STREETScape
DRAFT CONCEPT PLAN



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Recommended trees for CBD Streetscape

Botanical Name	Common Name	Mature Size	GE Forestry Division Comments	Quantity Goals	Percentage of total	Total species percentage
Celtis occidentalis 'Chicagoland'	Chicagoland Hackberry	Large	Tolerates a wide range of soils, including drought and wet. Tolerant of many urban pollutants	14	5.96%	
Acer buergerianum	Trident Maple	Medium	Salt tolerant. Interesting leaves. Good fall color. See also 'Streetwise' Trident Maple	8	3.40%	
Acer miyabae 'Morton' STATE STREET	State Street Maple	Medium	Salt intolerant-choose appropriate locations.Excellent resistance to heat and drought.	8	3.40%	
Acer rubrum 'Armstrong'	Armstrong Maple *	Medium	Salt intolerant. Not recommended for restricted sites. Narrow crown makes it suitable for areas with limited horizontal space.	3	1.28%	
Acer tataricum 'Hot Wings'	Hot Wings Maple	Small	Salt tolerant. Showy fruit. Excellent fall color.	4	1.70%	
Acer truncatum	Purpleblow Maple	Small	Salt intolerant. Prefers acidic soils. Showy flowers. Good fall color.	4	1.70%	
Acer x freemanii 'Marmo'	Marmo Maple *	Medium	Salt Intolerant. Great Fall Color. Not recommended for restricted sites. Choose locations that are appropriate	6	2.55%	14.04%
Cornus mas	Cornelian Cherry Dogwood	Small	Salt intolerant. Showy fruit. Showy flowers. Tough and adaptable.	4	1.70%	
Corylus columna	Turkish Filbert	Medium	Salt intolerant-choose appropriate locations. Drought tolerant. Showy fruit (edible).	6	2.55%	
Gleditsia triacanthos "Northern Acclaim"	Northern Acclaim Honeylocust	Large	Salt tolerant. Cold hardy. Seedless. Tried and true. Does well in urban environment. Small leaves can be a nuisance	8	3.40%	
Gleditsia triacanthos 'Perfection'	Perfection Honeylocust	Large	Tolerant of many urban pollutants and will even thrive in urban environments. Small leaves can be a nuisance. Tried and true.	8	3.40%	
Gleditsia triacanthos 'Skyline'	Skyline Honeylocust	Large	Small leaves create issues when sweeping streets. Species is tried and true. Works well in urban environment	8	3.40%	
Gleditsia triacanthos 'Sunburst'	Sunburst Honeylocust	Large	Cold hardy. Leaves are bright yellow. Small leaves can be a nuisance. Tried and true. Works well in urban environment	8	3.40%	13.62%
Gymnocladus dioica 'Espresso'	Espresso Kentucky Coffeetree	Large	Seedless variety. Salt tolerant. Tolerant of a wide range of soil conditions.	16	6.81%	
Koelreuteria paniculata	Golden Raintree	Medium	Showy Flowers. Tolerant to a wide range of conditions including drought and alkaline soils	6	2.55%	
Platanus x acerifolia 'Exclamation'	Exclamation London Planetree	Large	Needs space to grow-choose locations that are appropriate. Good form. Resitant to anthracnose. Branches can be brittle.	24	10.21%	
Quercus alba	White Oak *	Large	Acorns may be a concern. Tolerates drought. Unproven in a downtown urban environment. Needs plenty of room to grow-choose locations	4	1.70%	
Quercus bicolor	Swamp White Oak*	Large	Needs room to grow-choose locations that are appropriate. Tolerates wet soil.	20	8.51%	
Quercus 'Crimschmidt'	Crimson Spire Oaks *	Large	Recommended for restricted sites, however, salt intolerant. Narrow crown makes it suitable for areas with limited horizontal space. Low br	4	1.70%	11.91%
Styphnolobium japonicum	Japanese Pagodatree	Large	Salt tolerant. Drought tolerant. Showy flowers and fruit. Hard to find. May not flower for first 5-10 years.	4	1.70%	
Syringa reticulata	Japanese Tree Lilac	Small	Salt tolerant. Prefers moist, well drained soils. Tried and true. Species does very well in our Village.	6	2.55%	
Taxodium distichum 'Mickelson' SHAWNEE BRAVE	Shawnee Brave Baldcypress	Medium	Prefers moist, acidic soils but can tolerate a wide range from medium-wet to wet soils.Air pollution tolerant. Narrower than Baldcylress. Ne	18	7.66%	
Tilia americana	American Linden	Large	Salt intolerant. Not recommended for restricted sites. Fragrant, showy Spring flowers. Choose approporaite locations.	12	5.11%	
Zelkova serrata 'Musashino'	Musashino Columnar Zelkova	Large	Salt tolerant, drought tolerant. Ideal for narrow streets and other confined spaces. Hardy in urban settings and tolerant of many pollutants	16	6.81%	
Zelkova serrata 'Village Green'	Village Green Zelkova	Large	Salt tolerant, drought tolerant. Intolerant of poorly drained soils. Tolerant of urban environment	16	6.81%	13.62%

Total Trees

235

100.00%

* Anticipated large caliper trees size at planting (23 trees in current plan , actual species may vary based on availability)

Glen Ellyn Urban Forest Summary



The Chicago Region Trees Initiative (CRTI) goal is that, by 2050, the Chicago Region will support and host

a healthier urban forest, comprised of a diversity of tree species and ages, appropriately distributed across land use types in the region. The forest will provide the region improved environmental, economic, and social benefits. In order to achieve that goal CRTI works with a wide variety of people who work with and manage trees. This document is intended to help municipalities understand their urban forest, and identify strategies that they can use to make it better.

The Chicago Region Trees Initiative, USDA Forest Service, American Forests, and the University of Vermont mapped land cover across the seven-county Chicago Region. This project not only identifies tree canopy, but also other green infrastructure including vegetation under 10 feet tall, bare soil and water; and gray infrastructure including buildings, roads and rail and other paved surfaces like sidewalks and parking lots (Fig. 1). Here after, these seven layers will be referred to as *land cover types*.

The *urban forest* is comprised of all of the trees in an urban setting, regardless of who owns or manages them. It is made up of street trees, forested natural areas and even the trees in resident's back yards. These trees are all included in the urban forest, because they all provide benefits that municipalities depend on. They improve air and water quality, reduce flooding and the urban heat island effect, and reduce energy use by shading buildings. Trees provide habitat for wildlife and improve residents' quality of life by reducing crime rates, increasing property value and boosting social cohesion in neighborhoods.

The magnitude of benefits that trees provide correlates with the size, structure and location of their canopy. Understanding the extent of tree canopy is critical for urban planning. Canopy maps can be used to quantify the benefits that their trees provide, identify where new plantings would have the greatest impact and to develop priorities and strategies for expanding the canopy.



Fig. 1: Comparison of satellite image and land cover map. Seven types of gray and green infrastructure are in the land cover map.

Glen Ellyn Urban Forest Summary

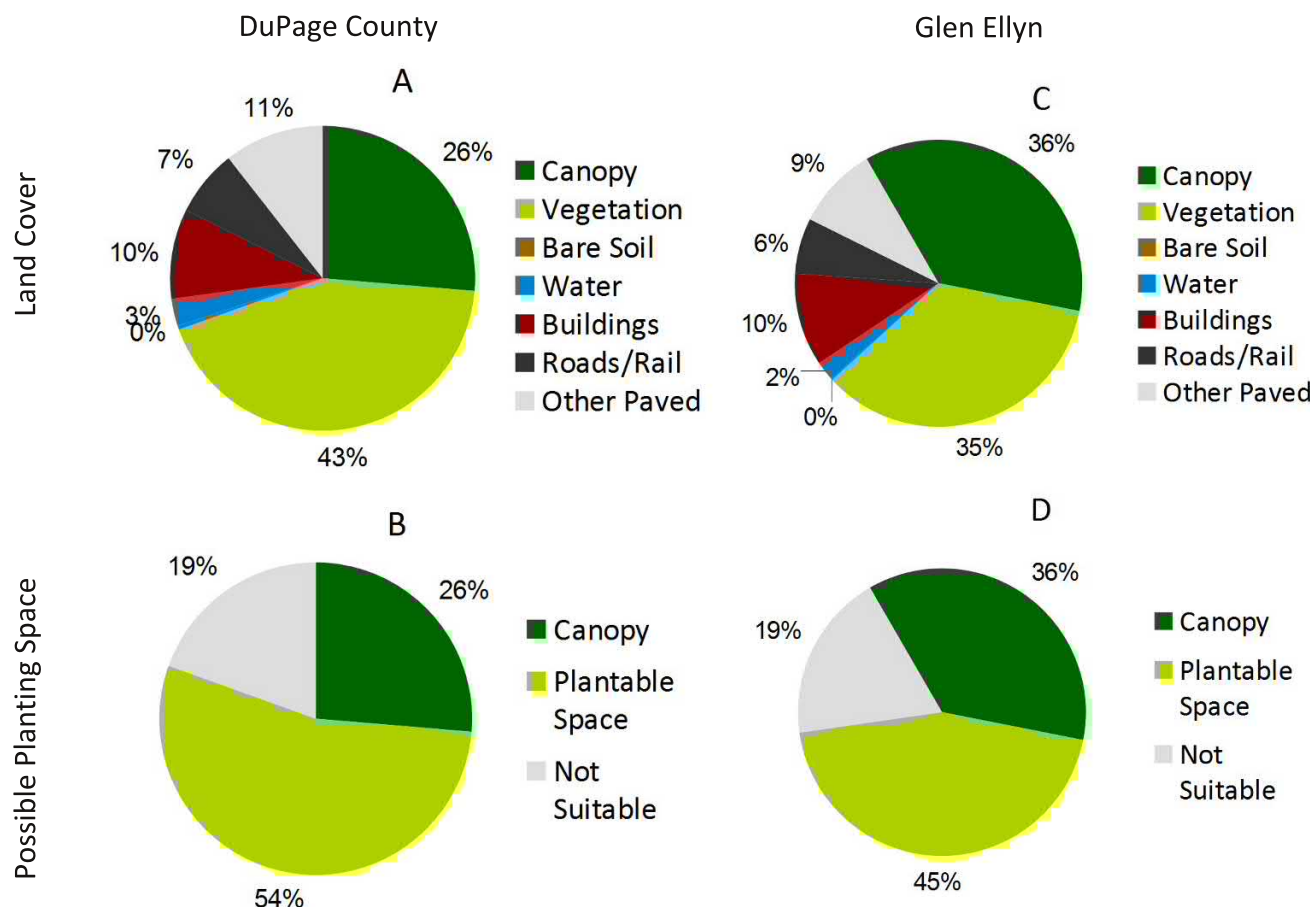


Fig 2: DuPage County's current land cover (A), including 26% canopy cover. An additional 54% of the county is suitable for planting (B). Glen Ellyn currently has 36% canopy cover (C), and 45% of the land cover could potentially be converted to canopy (D).

Overall, 26% of DuPage County is covered by tree canopy (Fig. 2). There is a lot of room for growth across the county. We can identify spaces where trees could potentially be planted by adding together the vegetation, bare soil and other paved surface land cover types, as these land cover types could be converted to canopy with minimal effort. In all, these land cover types make up 54% of the county's area, meaning that canopy cover could potentially be raised to 83% if all of these surface were converted to trees. It is important to note, that while these surfaces could theoretically be covered with canopy, it is not necessarily preferable. Agricultural fields and baseball diamonds are included as "plantable space," but few would agree that these are ideal sites to expand the forest canopy.

These land cover data can also describe canopy at the municipal scale. Glen Ellyn currently has 36% canopy cover, and could potentially increase their canopy to 81% (Fig. 2).

Glen Ellyn Urban Forest Summary

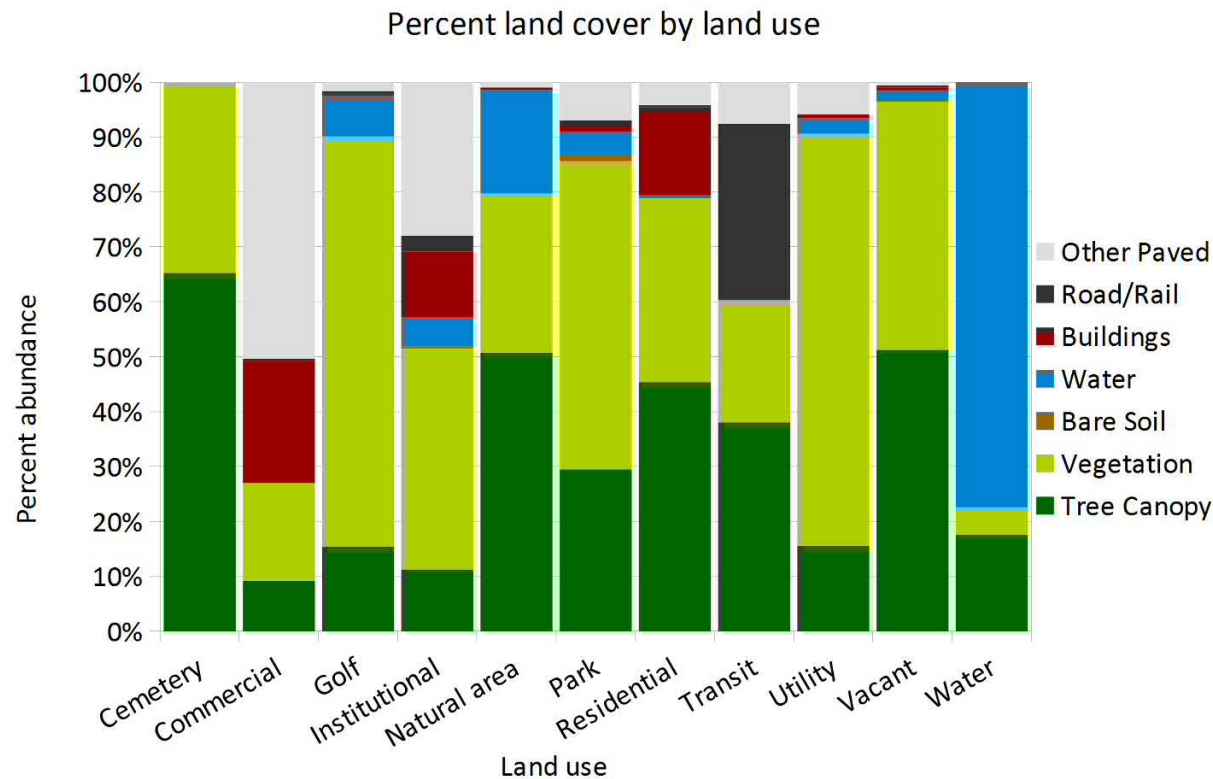


Fig 3: Variations in land cover across land use types.

Canopy cover is not distributed evenly across the region, nor within municipalities. To better understand how land cover patterns vary, we can compare them across land use types, like residential, commercial or park properties. In Glen Ellyn, the highest percentage of canopy is found in cemeteries, natural areas and vacant properties (Fig. 3). Commercial and institutional sites have the lowest canopy cover. As one might expect, transit areas have the largest proportion of roads, and residential and commercial land use types have an abundance of buildings. See Table 1 at the end of this report for more details.

Glen Ellyn Urban Forest Summary



By combining vegetation, bare soil and other paved surface categories we can identify which land use types have the most room for growth. In Glen Ellyn, the highest proportions of plantable space are found in golf courses and utility sites (Fig. 4).

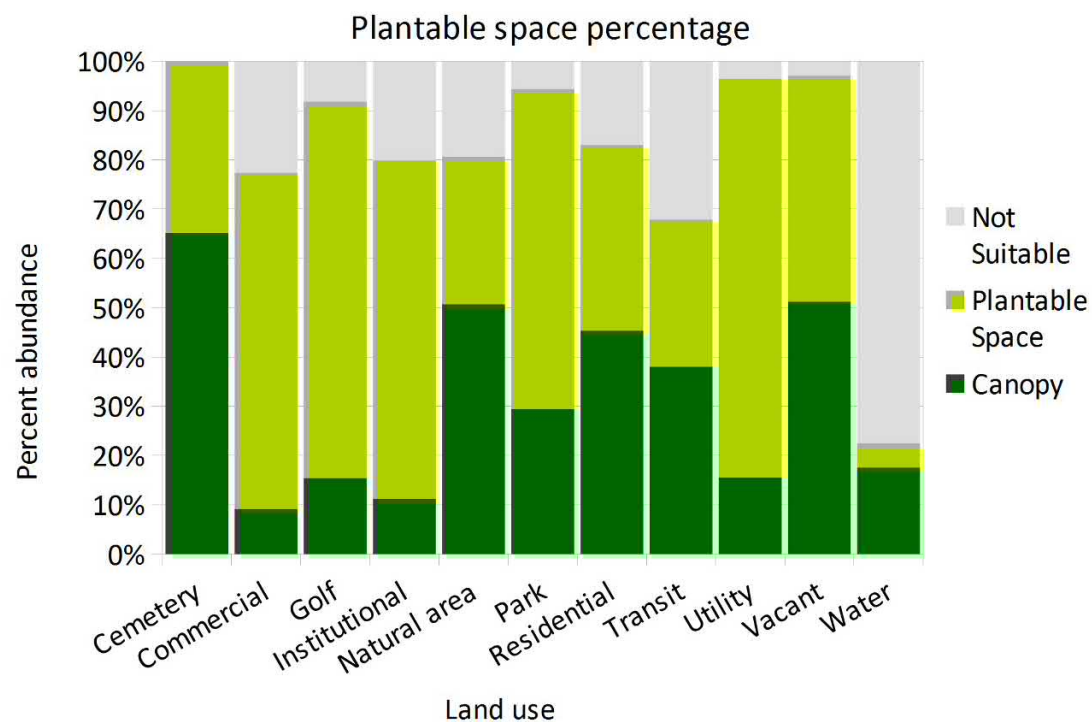
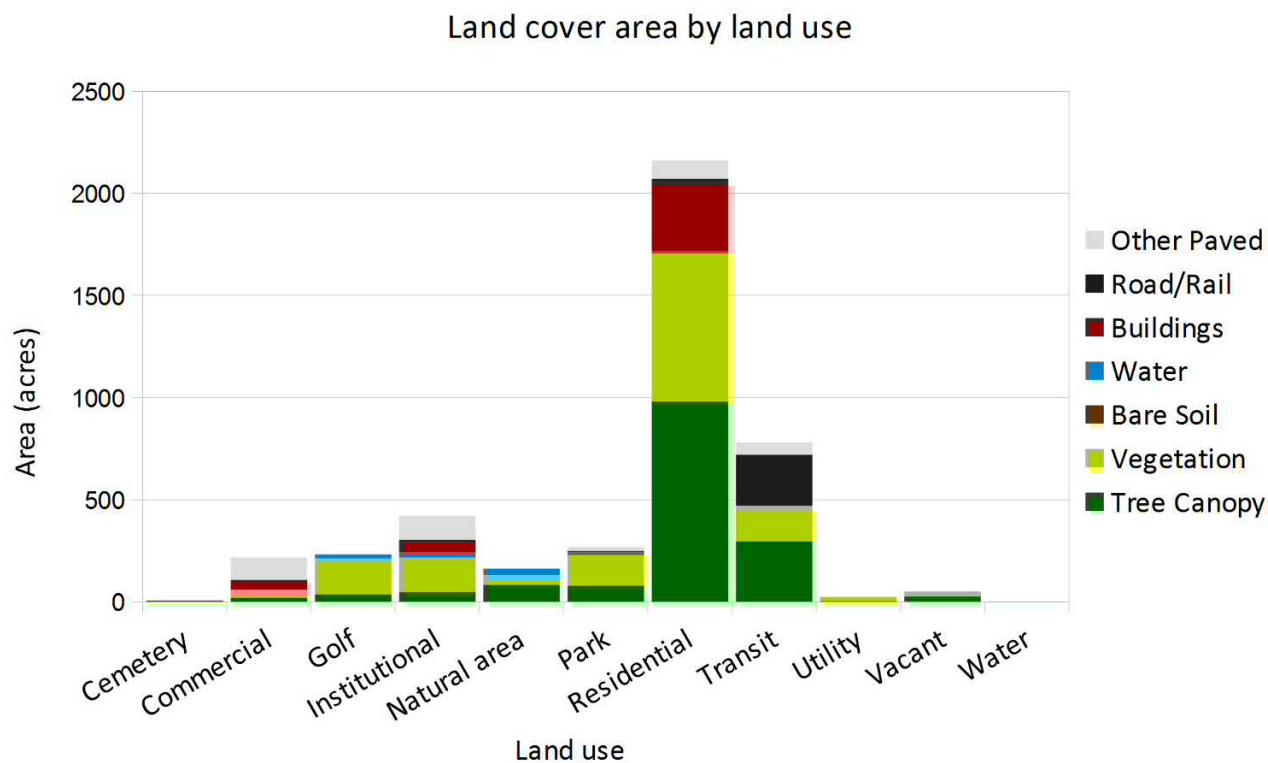


Fig 4: Current canopy and possible planting space across land use types.

Glen Ellyn Urban Forest Summary



While golf courses and utility sites have a high proportion of plantable space, these land use types make up a relatively small area in Glen Ellyn (Fig. 5). The majority of its land is residential followed by transit.

Fig 5: The majority of land is residential land use, followed by transit.

Glen Ellyn Urban Forest Summary

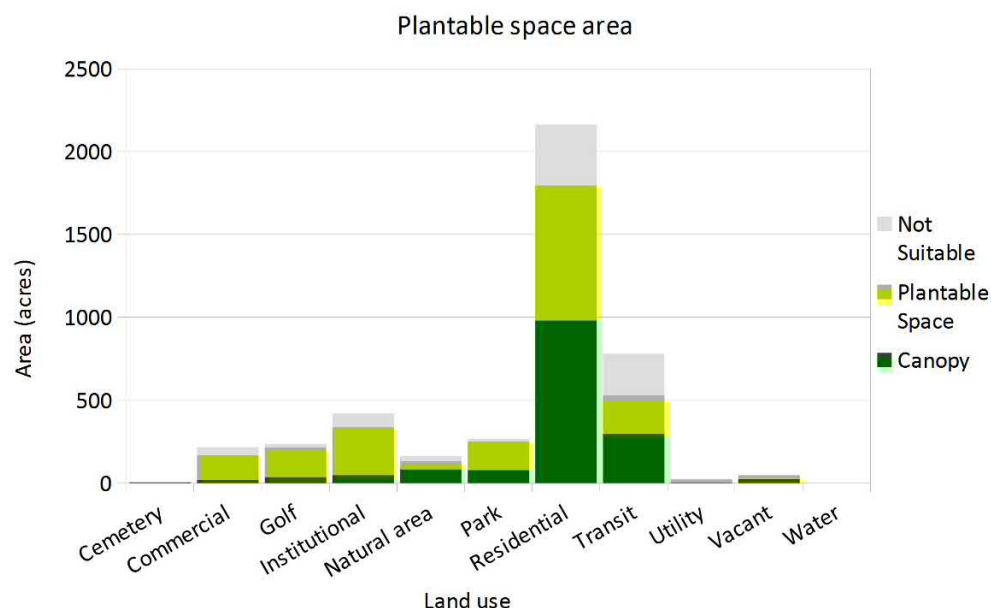


Fig 6: Residential has the greatest potential for increasing the canopy, followed by institutional.

Residential, transit and institutional land use types have the most area that could possibly be converted to canopy (Fig. 6). Targeting these areas could have the greatest impact in expanding the canopy. However, each of these land use types will require different strategies to increase canopy. Many of the transit properties are publicly owned, and could therefore be the easiest to work with. Residential property owners could be encouraged to plant more trees through tree giveaways, ordinances that encourage tree preservation, or stormwater tax breaks for properties that have more tree canopy. The majority of institutional property in Glen Ellyn is a university campus (although municipal buildings, schools and hospitals also fall in this category). The university could be encouraged to plant more trees to offset their stormwater footprint, and through other campus-wide green initiatives.

Table 1: Summary of land cover across land use types.

	Tree canopy		Vegetation		Bare soil		Water		Buildings		Roads and rail		Other paved	
	Acres	Percent	Acres	Percent	Acres	Percent	Acres	Percent	Acres	Percent	Acres	Percent	Acres	Percent
Cemetery	4.6	65.2%	2.5	34.7%	0.0	0.0%	0.0	0.0%	0.0	0.0%	0.0	0.0%	0.0	0.1%
Commercial	20.0	9.2%	38.5	17.8%	0.0	0.0%	0.1	0.0%	47.9	22.1%	1.1	0.5%	109.2	50.4%
Golf	36.3	15.4%	175.4	74.6%	0.2	0.1%	17.3	7.4%	0.7	0.3%	1.3	0.5%	3.8	1.6%
Institutional	47.4	11.2%	169.7	40.3%	1.8	0.4%	22.4	5.3%	50.1	11.9%	12.2	2.9%	118.0	28.0%
Natural area	83.4	50.7%	47.6	29.0%	0.0	0.0%	31.0	18.9%	0.3	0.2%	0.5	0.3%	1.6	0.9%
Park	79.2	29.5%	150.8	56.1%	4.9	1.8%	9.5	3.5%	4.9	1.8%	0.6	0.2%	18.7	6.9%
Residential	981.6	45.4%	723.9	33.5%	0.0	0.0%	11.3	0.5%	347.8	16.1%	7.9	0.4%	90.7	4.2%
Transit	296.8	38.0%	173.4	22.2%	0.0	0.0%	0.4	0.1%	0.6	0.1%	249.7	32.0%	59.3	7.6%
Utility	3.8	15.5%	18.2	75.0%	0.0	0.1%	0.7	2.8%	0.2	0.7%	0.0	0.1%	1.4	5.8%
Vacant	25.2	51.2%	22.3	45.2%	0.0	0.0%	1.0	2.0%	0.3	0.5%	0.2	0.3%	0.3	0.6%
Water	0.2	17.6%	0.1	4.9%	0.0	0.0%	0.9	77.5%	0.0	0.0%	0.0	0.0%	0.0	0.0%
Total abundance	1578.4	36.4%	1522.3	35.1%	6.9	0.2%	94.6	2.2%	452.8	10.5%	273.4	6.3%	403.0	9.3%

Glen Ellyn Urban Forest Summary



Glen Ellyn has higher canopy cover and lower impervious surfaces (buildings, roads, and paved surfaces) than all of its neighbors (Fig. 7).

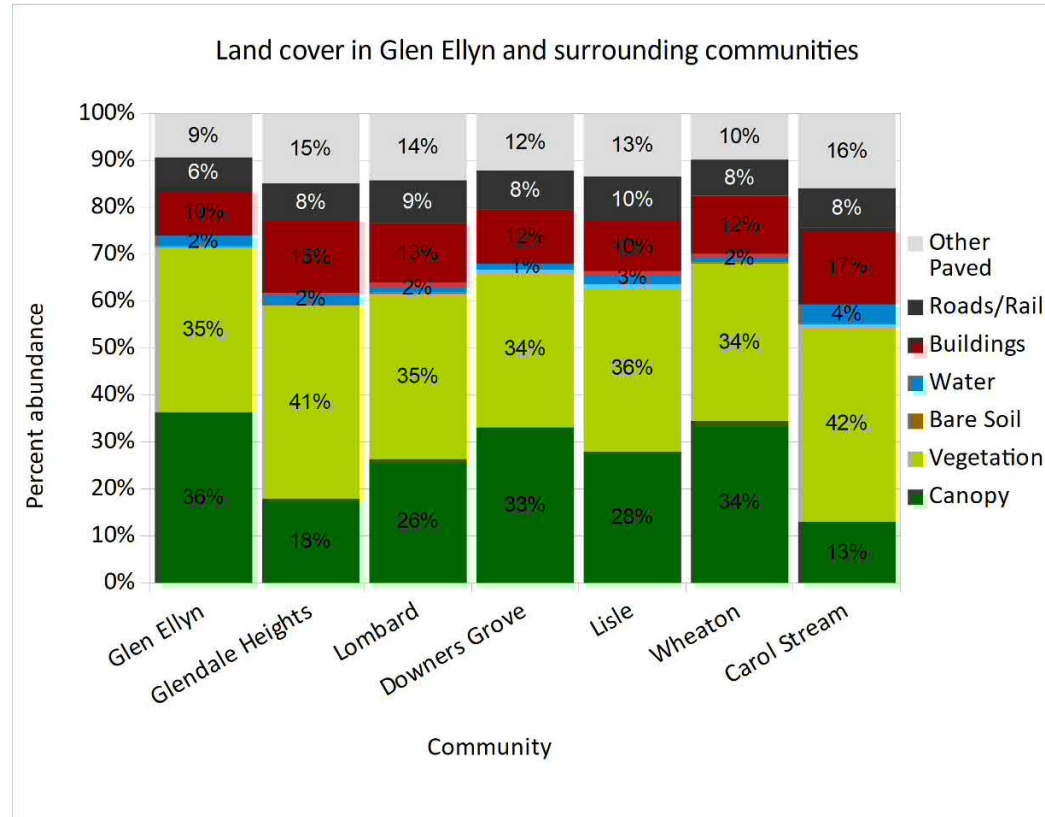


Figure 7: Comparison of land cover of Glen Ellyn and its neighbors.

Glen Ellyn Urban Forest Summary

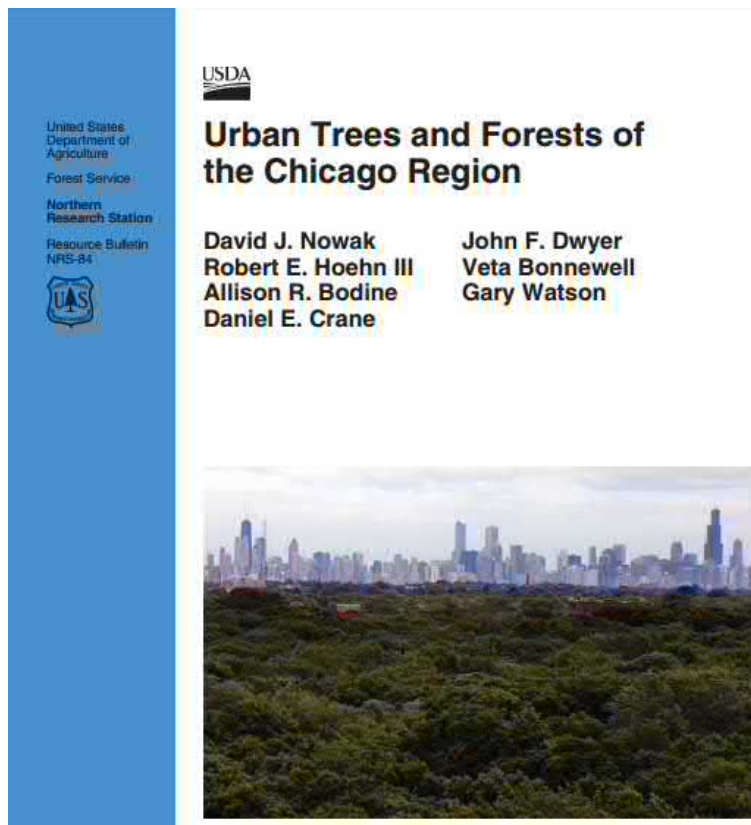


Figure 9: This Forest Service publication be found in its entirety at: <http://www.nrs.fs.fed.us/pubs/44566>.

While understanding canopy is an important component of urban forestry, canopy alone does not show the whole picture. We can use canopy to quantify the number and extent of trees, but not their identity, health, nor vulnerability to pests, diseases or climate change. In order to better understand the urban forest, we need a tree inventory, which will describe the abundance and location of tree species (Fig. 8).

Tree inventories come in many shapes and sizes. The most complete inventories gather data on every tree in the study area, and include information like each tree's species, any health issues the tree may have, and its specific location. This sort of inventory is invaluable for planning and monitoring the urban forest's health and growth over time. The Morton Arboretum and the USDA Forest Service conducted a sample inventory across the seven county region, and determined species composition at the county scale (Fig. 9). This resource is invaluable in understanding broad-scale composition.

To measure species composition on a finer scale, rely on inventories that measure every tree. Many communities, including Riverside, have conducted such inventories on public property. We can use these inventories to better understand the state of its urban forest, and to compare municipalities who have an inventories to each other and to the region as a whole.

All calculations in this report were made using an inventory of Glen Ellyn's park district trees. It should be noted that this only represents a small portion of the trees in Glen Ellyn, and a more complete inventory is necessary to further explore the urban forest.



Figure 8: Measuring tree size is a critical component to completing a tree inventory.

Glen Ellyn Urban Forest Summary

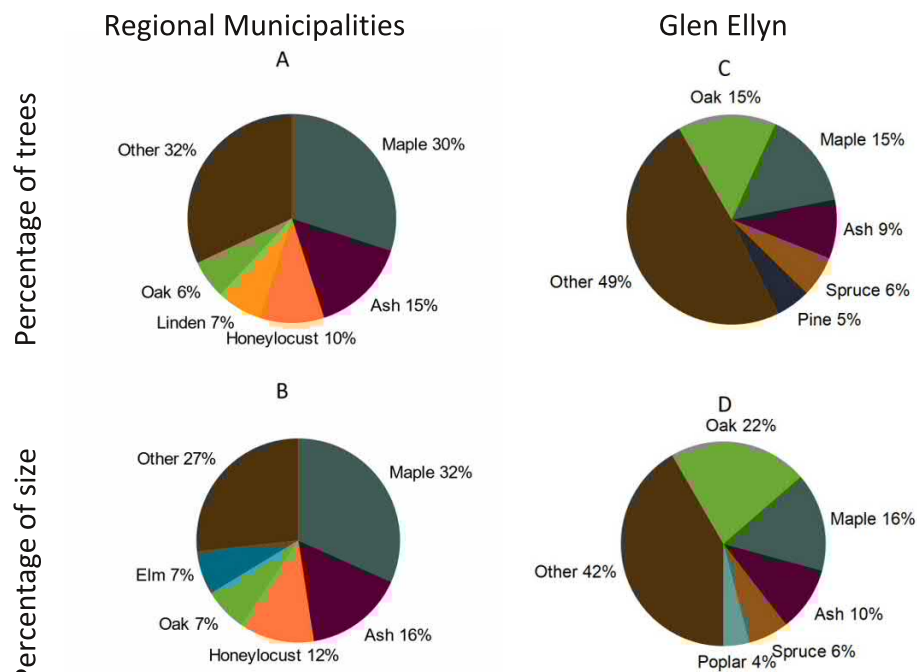


Figure 10: Region-wide, maple is the most abundant genus by number of trees in municipal plantings (A), as well as by proportion of canopy (B). Glen Ellyn has fewer maples and ashes and far more oaks than the region as a whole (C and D).

Inventories allow us to look at diversity in two ways, by the abundance of individual trees, and the proportion of the entire canopy that these trees make up. To determine the second figure, we can use the diameter of the trees as a correlate for canopy abundance, as those values are closely related. Both of these measures are important. Number of individual stems is useful when calculating the number of trees that might be affected by a given pest or disease. The abundance of canopy will show how the entire forest might change. That is, losing ten, small apple trees would have a much smaller impact on the ecosystem services that a forest offers than losing ten, mature oaks. Figure 10 shows the most abundant genera in Glen Ellyn and across 55 other municipalities.

Many municipalities have very low species diversity. They rely heavily on tried and true species, like Freeman maples, white ash and honeylocust. Maples, on average, comprise 30% of municipal plantings. Ashes were generally in similar abundances, and losing them was a terrible ordeal. As devastating as losing ashes was for the Chicago region, losing maples would be much worse.

This illustrates how critical it is to actively increase species diversity where possible. Most pests and diseases (like emerald ash borer and Dutch elm disease) only attack a specific species or genera of plants. By diversifying species, we can ensure that our forest is resilient to these attacks. CRTI recommends that municipalities strive to have no more than 15% of a single family, 10% of a genus, and 5% of a species in their plantings. These guidelines should be met not only across the whole municipality, but at smaller scales like individual blocks.

Glen Ellyn has fewer maples, ashes and honeylocust than the rest of the region, and far more oaks. This is likely due, in part, to the fact that this is only an inventory of park district trees.

Glen Ellyn Urban Forest Summary

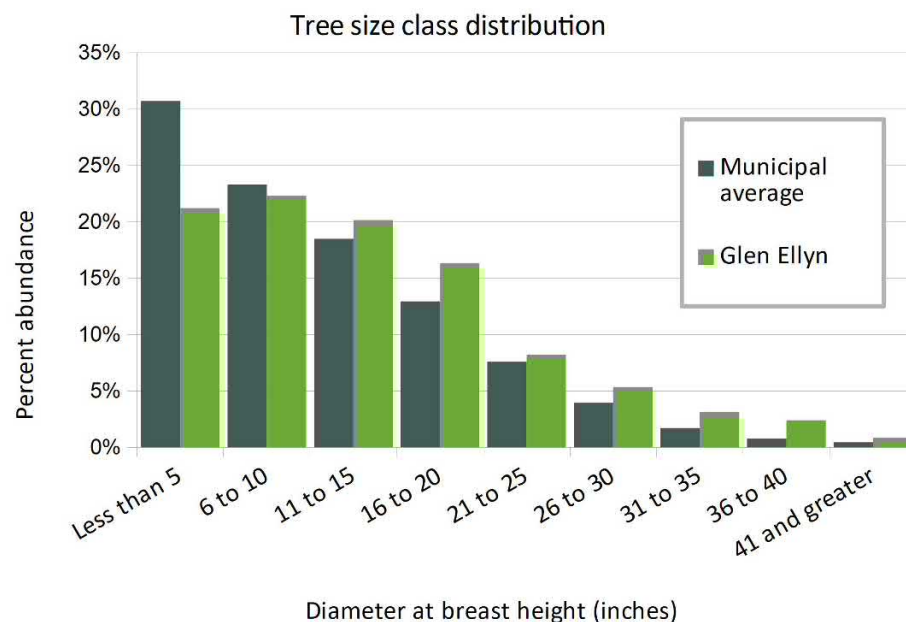


Figure 11: There are more trees in smaller age classes than in larger ones across all municipal inventories. Glen Ellyn has fewer trees in the smallest age class than in the next few size classes.

in the smallest size class. This could lead to a drop in canopy cover as there are not enough small trees to replace larger ones as they age out. This is especially important with the imminent loss of mature ash trees.

While size diversity is sustainable on the municipal, county and regional scale, it is also important to zoom into smaller areas, like specific subdivisions or properties. Planning for size class diversity on this level is important to local ecosystem services, like reducing energy use, managing stormwater and retaining soil.

There is another type of diversity to consider beyond species diversity. A sustainable forest has a variety of ages and sizes of trees. If all of the trees in an area were planted at the same time, they will grow, age and die at the same time. When these trees reach the end of their lives, it could leave a property without trees.

For that reason, it is important to try to increase age diversity of a forest. This can be done by planting trees over several years, planting trees with different growth habits (some trees grow quickly and have shorter lifespans than others), and by under planting aging trees, so that something is ready to replace them when they die.

Paying attention to size diversity is especially critical when recovering from emerald ash borer. Many communities have vowed to replace all of the trees that they remove, but this could become problematic if they are planting all of those trees within a short time period. It may be better for overall health of the forest to space these plantings out over several years.

Overall, size diversity averaged across all municipalities looks sustainable (Fig. 11). There is room for some trees to die between each age class, with plenty to remaining to grow into the next size class. Glen Ellyn has fewer trees

Glen Ellyn Urban Forest Summary



Urban trees are extremely valuable. Research has allowed us to quantify the values that trees provide, and these values go far beyond the aesthetics that are readily recognized. For example:

- Urban trees save energy by reducing surface temperatures and shading buildings.
- They store carbon dioxide and remove pollutants from the air.
- They intercept stormwater and help reduce flooding.
- Residents preferentially buy properties that have more trees, meaning that trees increase property values.

The i-Tree suite of tools was developed by the US Forest Service. They allow users to calculate tree benefits at a variety of scales, from an individual tree, to entire tree inventories, to landscape scale assessments of canopy and hydrology. For more information on i-Tree tools and methodology visit iTreetools.org.

Figure 12 shows the benefits that all of the trees (including trees public and private property) in Glen Ellyn offer. These values were calculated with i-Tree Landscape. Each year, Glen Ellyn's trees provide the municipality with \$986,100 worth of benefits. These trees also store a lot of carbon, which is valued at an additional \$4,739,500.

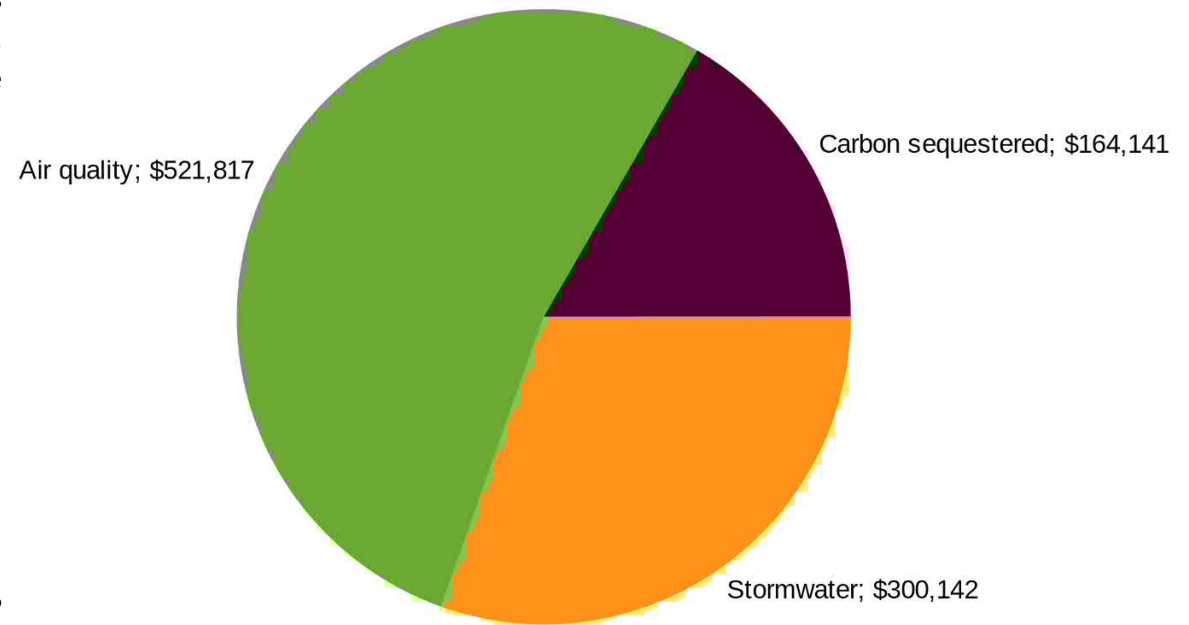


Figure 12: Trees offer myriad benefits, including intercepting stormwater, improving air quality and removing carbon from the atmosphere.

Glen Ellyn Urban Forest Summary



Cities tend to be hotter than rural areas because buildings and pavement absorb the sun's energy and release it as heat. This is known as the urban heat island effect. High urban temperatures increase the use of energy within buildings. It can also cause a variety of health issues to residents, and extreme heat can even cause death. Trees help lower urban temperatures by shading built surfaces and through evaporative cooling. Urban areas that have more tree canopy tend to have lower surface temperatures (Figure 13). Planting more trees in parking lots and around buildings can be especially helpful in reducing urban temperatures and making cities more comfortable.

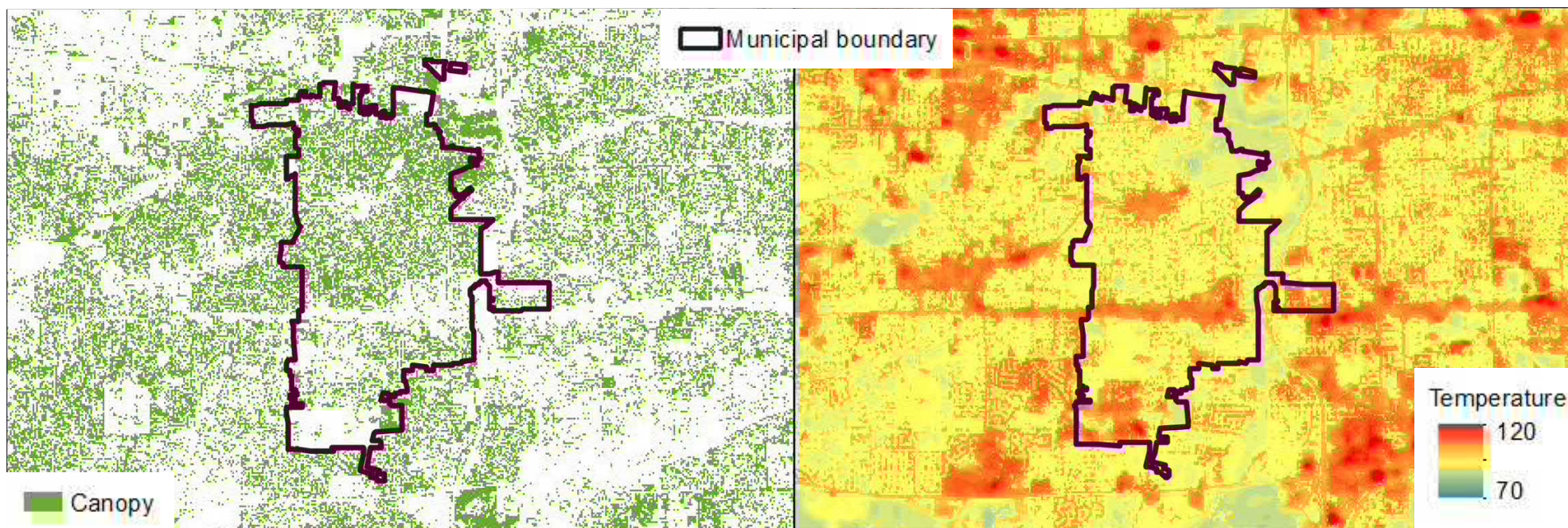


Figure 13: The image on the left shows tree canopy and on the right shows surface temperature. Surface temperature was calculated using a landsat image from September 2014. Areas that have higher tree canopy tend to have lower temperatures.

Glen Ellyn Urban Forest Summary



Figure 14: Oak ecosystems were abundant prior to Euro-American settlement. This map shows which of these ecosystems still remained in 1939 and 2010.

Oaks are a keystone species in our region's ecology. They provide habitat and food for countless animals, and they influence which plants grow around them. Prior to Euro-American settlement, they were the most abundant tree species in the region. However, conversion of natural areas to agriculture and development has removed many of the oaks from our region. Only 17% of oak ecosystems remain in the Chicago region. For more information on oak ecosystems in the Chicago region, see Chicago Wilderness's *Oak Ecosystem Recovery Plan*.

Prior to Euro-American settlement, oaks made up 60% of the regions canopy. Currently, in Glen Ellyn, they account for only 22% of the canopy. Adding additional oak trees, or using oaks to replace dying ashes, could serve to increase species diversity in Glen Ellyn, and to improve habitat for the birds, insects and wildlife that depend on them.

Restoring oak ecosystems is a major focus of CRTI. It's efforts include improving oak management in natural areas, and encouraging their use in municipal plantings. Many municipalities avoid oaks because foresters believe that they do poorly as street trees. CRTI strives to dispel these biases, and to teach foresters how oaks can be used effectively in urban areas. The expanded use of oaks can help increase species diversity, and continue the legacy of oaks in our region.

Municipal plantings are not the only place where oaks can be used. Glen Ellyn might also consider working with residents and commercial land owners to increase oaks abundance across all land use types. This could be done through programs like tree give-aways, or handouts that describe the benefits of planting oaks. CRTI is creating documents that could help in this endeavor.

Glen Ellyn Urban Forest Summary

Woody invasive species like European buckthorn and bush honeysuckles make up almost one in three trees in the region. These shrubs were introduced as ornamental specimens, but they have escaped cultivation. Birds eat the berries produced by buckthorn and honeysuckle, allowing the seeds to be dispersed into natural areas. Both genera are extremely disruptive to native plants and animals. They create dense thickets, and prevent other species from growing around them (Fig. 15). In natural areas, they are one of the leading contributors to reduced oak regeneration.

Woody invasives are the most abundant in Cook, DuPage and Lake Counties, but they are becoming problematic region-wide (Fig. 16). While there are very few woody invasives in Glen Ellyn's inventory, these trees likely exist on private property, or on unmanaged land. It is imperative to remove buckthorn from all land uses, as the seeds can easily travel to natural areas. It is difficult to dictate plantings on private property, but educating residents can encourage them to remove it of their own accord. This could include signage explaining invasive removal on public property, or expansion of programs like Conservation@Home.



Figure 15: A buckthorn thicket. Note that no other species are growing beneath the buckthorn.

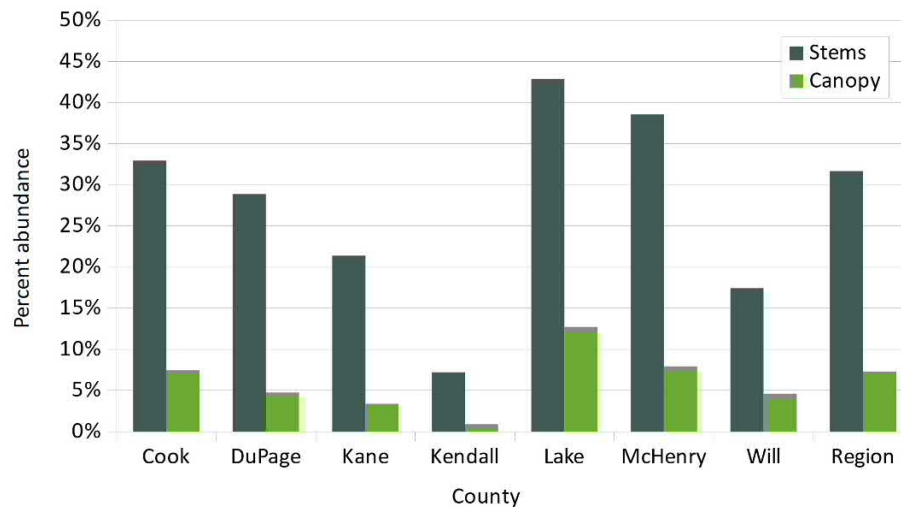


Figure 16: Woody invasive abundance across all counties. They are the most abundant in Lake and McHenry Counties, but is a threat region-wide.



**Glen Ellyn Environmental
Commission**

535 Duane Street
Glen Ellyn, IL 60137

Meeting 1/26/2021 7:00 PM

Department: Finance

Department Head:

Category: Discussion Item

Prepared By:

AGENDA ITEM (ID # 2021-859)

DOC ID: 2021-859

Arts Initiatives

Statement of the Issue:

Analysis:

Budget Impact:

Action Requested:

Attachments:



**Glen Ellyn Environmental
Commission**
535 Duane Street
Glen Ellyn, IL 60137

Meeting 1/26/2021 7:00 PM
Department: Finance
Department Head:
Category: Discussion Item
Prepared By:

AGENDA ITEM (ID # 2021-860)

DOC ID: 2021-860

Marketing and Education Topics

Statement of the Issue:

Analysis:

Budget Impact:

Action Requested:

Attachments:



**Glen Ellyn Environmental
Commission**
535 Duane Street
Glen Ellyn, IL 60137

Meeting 1/26/2021 7:00 PM
Department: Finance
Department Head:
Category: Discussion Item
Prepared By:

AGENDA ITEM (ID # 2021-861)

DOC ID: 2021-861

Greenest Region Compact Initiatives

Statement of the Issue:

Analysis:

Budget Impact:

Action Requested:

Attachments: