

Town of Elon Planning Board Agenda

September 20, 2022 6:00 PM Elon Town Hall, Town Council Chambers 104. S. Williamson Ave., Elon, NC

Agenda Items

- A. Call to Order
- **B.** New Business
 - i. Approval of Minutes from the June 21, 2022 Planning Board Meeting.
 - ii. Petition MDP-2022-02 A request by the applicant Brad Moore, on behalf of the property owner, Elon University, for major development plan review for a residence hall located at the intersection of East Haggard Avenue and North Oak Avenue (Tax Parcel 115430) and zoned Public Institutional (PI).
- C. Items from Board Members
- **D.** Other Business
- E. Adjournment

TOWN OF ELON PLANNING BOARD MINUTES

Town of Elon Town Hall, 104 S. Williamson Ave., Elon, NC 27244 June 21st, 2022, at 6:00 PM

Board members present: Jim Beasley, Clark Bennett, John Harmon, Mark Podolle, and Philip Owens.

Staff present: Carrie Spencer and Mary Kathryn Harward

Item A- Chairman Beasley called the meeting to order at 6:01 pm.

Item B- New Business

Item B-i- Approval of Minutes

Ms. Harward presented the board with minutes from the March 2022 meeting for approval

• Mr. Harmon made a motion to approve the March minutes; Mr. Podolle seconded the motion; the motion was approved unanimously (5-0) by the board.

Item B-ii- Rezoning Request RZ #2022-02

Mrs. Spencer presented the Board with a presentation containing the details for the rezoning request RZ #2022-02 regarding the Parc Northwest Development. Rezoning Request RZ #2022-02 was submitted by Greenhawk Corporation, Inc., for property located at the northeast corner of University Drive and Elon Ossipee/ Shallowford Church Road. Approval of the request would change the zoning of a +/- 57.72 acre parcel identified by Parcel ID #110257 from the Neighborhood Residential Planning District (NR) and Village Center Planning District (VC) with a Traditional Neighborhood Overly (TND-O) to the Neighborhood Residential-Conditional Planning District (NR-CPD) and Village Center Conditional Planning District (VC-CPD) with the Traditional Neighborhood Development Overlay (TND-O).

The proposed conditions listed in the application include changes in the number of proposed residential units, changes in the proposed number of multi-family units, limitations of land uses, commitments to architectural standards, decrease in the minimum lot size, increase in size of open space, and changes to the NR and VC acreages. The site is currently undeveloped, with no environmental concerns save the on-site streams that will need to be buffered.

Mrs. Spencer reminded the board of what conditional zoning is, why it was established, and the Planning Board and Town Councils role in the process

Mrs. Spencer referenced the Town of Elon's Comprehensive Plan and outlined the goals and objectives that the proposed rezoning supported.

The staff recommendation was as follows:

- Multiple elements of the Plan provide support for the proposal.
- The plan and conditions align with illustrations for the Focus Area/Central.
- The property's Future Land Use and Conservation Map as mixed use, aligns with the intent of the proposed conditional zoning districts.
- Staff therefore considers the request to be consistent with the Land Development Plan with the conditions requested by the applicant.

After Mrs. Spencer's presentation, Mr. Tony Tate of TMTLA Associates gave a short presentation on the conditional zoning master plan for the proposed "parc northwest" development and Mr. Jeremy Medlin of Greenhawk Corporation, Inc., addressed concerns from the board and public. The common concerns from the board members and the public involved:

- Potential drainage into the adjoining Cable Square neighborhood
- Connections to Cable Square and the impact on the neighborhood/citizen safety
 - o Impact of necessary crossing across University Drive and placement/effectiveness of crosswalks
- Location and safety of proposed sidewalk from parc northwest to the University's Schar center
- Results and implications of the Traffic Impact Analysis currently being carried out by NCDOT for the area
- Density and potential impacts on emergency services (specifically fire response)

After dialogue between the Board, Staff, Applicant, and community members, the Planning Board members voted on 3 motions, which were as follows:

- 1. Motion 1: Rezoning request RZ #2022-02 is consistent with the adopted Town of Elon Land Development Plan.
 - a. Motion was made by Mr. Clark Bennett, with Mr. John Harmon seconding the motion, all were in favor.
- 2. Motion 2: Rezoning request RZ #2022-02 does not have an acceptable level of impact on both the immediate area and the community as a whole.
 - a. Motion was made by Mr. Clark Bennett, with Mr. Philip Owens seconding the motion, all were in favor.
 - b. Concerns:
 - i. Density is an issue due to fire safety
 - ii. More conditions would be preferred
- 3. Motion 3: The Town of Elon Planning Board recommends approval, with conditions, of Rezoning Request RZ #2022-02, with the following additional conditions:
 - a. Developer will propose language for a condition that would prohibit access of construction vehicles through Cable Square; and the building located on the southeast corner of the Village Center zoned property be limited to 3 stories above street grade at the intersection; the Board requests professional review by the fire chief.
 - b. Motion to approve was made by Mr. Mark Podolle, with Mr. Philip Owens seconding the motion. Mr. Jim Beasley and Mr. John Harmon were in favor; Mr. Clark Bennett was not in favor. The motion passed 4-1.

Item B-iii- Major Development Plan MDP #2022-01

Mrs. Spencer gave a presentation to the board on Major Development Plan #2022-01 titled "Elon Gateway Project". The application for the project was submitted by Brad Moore, Architect with Elon University, on behalf of the University. The project is described as adding entrance signage to a vacant parcel and adjacent parcel and signifies an entry onto the university campus from University Dr. at O'Kelly Ave. Plans show the project consisting of two identical walls with university signs and one decorative bell tower. The properties are located on the southeast and southwest corner of University Avenue and O'Kelly Avenue, with parcel ID #s 110124 and 110188.

The sign requirements from the Town of Elon LDO, the Major Development Plan process, existing site conditions and zoning, and project renderings were presented in detail.

Staff recommended that the Planning Board consider this application, accept public input during the scheduled meeting, and consider a recommendation to the Board of Aldermen on the proposal at their earliest convenience. Staff recommends approval of the request.

• John Harmon made a motion to approve MDP-2022-01. Mr. Mark Podolle seconded the motion, and all the members voted in favor (5-0) of approving MDP-2022-01.

Item C- Board of Alderman Updates

There were no Town Council updates

Item D- Motion to Adjourn

A motion to adjourn was made by Mr. Clark Bennett and seconded by Mr. John Harmon. The motion was approved by a unanimous vote (5-0).

was approved by a unanimous vote (5-0).
Meeting was adjourned at 9:16 pm.
Respectfully Submitted,
Chair Jim Beasley
Recording Secretary, Mary Kathryn Harward Town of Elon Planning Department – Planner I

DEVELOPMENT REVIEW APPLICATION FORM



Town of Elon Development Services

P.O. Box 595 104 S. Williamson Avenue

Elon, NC 27244 (336) 584-2859

AN TYPE: REVIEW FEE:			
elopment Plan or Subdivision - Minor \$250.00			
- Major	- Major \$450.00 + cost of mailed notices (calculated based on # of adjoining properties)		
Special Use Permit (includes Dev. Plan approval)	\$450.00 + cost of mailed notices (calculated based on # of adjoining properties)		
Final Plat	\$100.00 (Exempt s/d, recombination, or easement plats = \$50.00)		
mical Review Committee (TRC) Review \$600.00 (includes two resubmittals); \$150.00 (per each submittal over two)			
offic Impact Analysis Review \$300.00			
Minor Subdivision = less than 10 SF lots; Major S	Subdivision = 10 or more SF lots or any number of non-residential lots.		
Minor Development Plan = Development of open I streets or right-of-way.	and uses or up to 2 buildings or additions totaling less than 30,000 sf, without new		
Major Development Plan = MF, mixed-use, or no	n-residential development.		
Submit three (3) printed copies and an ele	ctronic set of plans to the Planning Office for review.		
PROJECT SUMMARY: 3 STORY 128	GIVENTS HALL		
A. Project Name: EAST NEGHEON	2HOOD COMMONO		
	elopment Plan X Major Development Plan Special Use		
	Fraffic Impact Analysis Schematic Design (Pre-application review)		
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Report Comments to (additional contact):	FaxNumber:		
Telephone Number: 336 74.3.1067			
E-Mail: TJENNINGS	5TIMMELPK. COM PIN 188 5526444 9		
F. Tax Map / Block / Parcel # (s): 1543	PIN 188 5520444 7		
G. Total Tract Acreage: 4.20 AC			
H. Zoning District:	dplain Development Permit may also be required if property is in the Floodplain)		
	apiam Development I crime may also so required a property		
J. Proposed Use:			
K. Number of Lots: CNF L. Multifamily Developments: # of Units 52			
	dominiums		
Type. Tiputumento			
M. Non-Residential Developments: Existing Gross	Piool Area (GPA).		
N. Amount of Existing Built-upon Area (BUA):	1 21 2/2		
O. Amount of Proposed BUA:	1.01 40		
PLAN SUBMISSION GUIDELINES	n		
meeting in order to be included on the agenda.	n Review must be submitted thirty (30) days prior to the desired Planning Board Final Decision by the Board of Aldermen shall be provided at their next available ust be submitted seven (7) days prior to the desired TRC meeting (TRC meetings s of each month). Submittals must be complete in order to be scheduled for review		
I have read, understood and completed the attached			
Applicant Signature:	Phone: 370 123. 067 Date: 8.3.22		

East Neighborhood Commons Residence Hall MDP-2022-02 Major Development Plan Review

Property Owner: Elon University

Applicant: Brad Moore

Request: Major Development Plan (Major Site Plan) Review and Recommendation

Location: Elon University, East Haggard Avenue and North Oak Avenue

Parcel ID: 115430

Site Acreage: Parcel = 11.2 acres Project Area = 1.55 acres

Zoning: Public Institutional (PI)

Petition MDP-2022-02 is a request by the applicant Brad Moore, on behalf of the property owner, Elon University, for major development plan review for a residence hall consisting of 52-units, flex space, student living room lounges and an office located at the intersection of East Haggard Avenue and North Oak Avenue (Tax Parcel 115430) and zoned Public Institutional (PI).

Existing Site Conditions (Aerial imagery exhibit attached)

The parcel currently contains three (3) residence halls, tennis courts and a parking lot (on the south side of East College Avenue). There is an existing parking lot where the new residence hall is proposed, which will be removed.

- To the West Existing Elon University property with several buildings zoned PI (Public Institutional).
- To the South Existing Elon University property with several buildings zoned PI (Public Institutional) and single-family dwellings and a vacant parcel zoned SR (Suburban Residential).
- To the East Single-family dwellings zoned SR (Suburban Residential) and NR (Neighborhood Residential).
- To the North Vacant parcel owned by Elon University zoned PI (Public Institutional) and an apartment building zoned UR (Urban Residential).

Land Use and Site Plan (Site plan attached)

The site is currently zoned PI (Public Institutional), and the PI District is described in the LDO as being intended to accommodate primarily large-scale public, educational and institutional uses. The proposed use constitutes a use by right and will be confirmed to comply with all relevant LDO requirements prior to construction plan approval and the issuance of a Zoning Compliance Permit.

- The proposed residence hall will contain the following uses: 52 residential units, flex space/entertaining space, study rooms, living room lunges, storage space and a housing office.
- The proposed building is 3-stories tall with a basement that will be visible on certain elevations of the building due to the topography of the site. Section 5.4.4.2 of the LDO states that building height is measured as the vertical distance from the highest finished grade relative to the street frontage to the eaves or the highest level of a flat roof.
- A new, proposed parking lot is located off N. Oak Street and contains 4 parking spaces (for more information on parking requirements, please see the Parking Requirements subsection). The parking lot also contains a utility yard which will be screened by a wall and a loading/unloading space. The entrance to the parking lot meets the turning radius requirements for a fire truck.
- An eight-foot (8') wide brick sidewalk runs along the western portion of the project area, and it also includes a pervious pavement area, which consist of grass (honeycombed shaped) pavers to provide emergency vehicular access to the site. A large, paved patio also encompasses the site on both sides of the front of the building along East Haggard Ave. The patio on the western side of the building will serve dual roles: it will provide an area for emergency vehicles to have close access to the building, and it will also encourage pedestrian activity in accordance with Section 5.4.6.1-A of the LDO, which states: "front and side setbacks may vary depending upon site conditions and will encourage pedestrian activity. Front and side setbacks exclude pedestrian uses such as plazas, stoops, walks, etc."
- There are existing sidewalks along both East Haggard Avenue and N. Oak Street. There are also sidewalks planned on all sides of the building. There is a proposed mid-block crosswalk in front of the patio/brick fire lane.
- There is a fifteen-foot (15') wide proposed landscape buffer along the rear of the property adjacent to Parcel 115434 and Parcel 115562 in accordance with Section 5.8.3.2 of the LDO. The plans meet the landscaping requirements listed in the LDO and final landscaping plans with specific tree and shrub species will be provided by the property owner prior to construction plan approval. There is also an existing wooden fence along the rear property line.
- Solid waste for the site will be handled by bins located inside the building that will then be picked up by the University and take to an off-site dumpster for disposal.
- There is a proposed wall sign in front of the building along East Haggard Avenue and there is a note on the site plan that all signage shall be permitted separately.
- The parcel is not located within a special flood hazard area as defined by the Federal Emergency Management Agency (FEMA).

Parking Requirements

Elon's LDO calculates parking requirements in Section 5.6.2.2. For University uses, the minimum requirement is 1 space for every 2 students and 1 space for every employee/university staff, applied to the campus as a whole. This project will result in a reduction in the overall parking count due to the loss of existing on-site parking spaces. However, the campus currently provides parking spaces in excess of the requirement by more than 1,000. Staff will continue to monitor parking counts as development continues

on campus to ensure there is no risk of the University falling below the minimum requirement. The current calculation is as follows:

- ❖ Number of Faculty/Staff = 1,600 (1 space per person required)
- Number of Students = 6,700 (1 space per 2 students required -6,700/2 = 3,350)
- Number of spaces required = 1,600 + 3,350 = 4,950 spaces
- \bullet Current parking spaces provided (including this project) = 6,020 (1,075 'extra' spaces)

Zoning, Comprehensive Plan and Haggard Ave. Corridor Plan (Exhibits attached)

The property is zoned Public Institutional Planning District and is intended to accommodate primarily large-scale public, educational and institutional uses. District design guidelines encourage construction of buildings that relate to Elon's small-town character. Development at district boundaries must provide a compatible transition to uses outside the district. Frontage along major arterial roads requires formal street tree plantings. Buildings are required to relate to the street with a more pedestrian scale.

The Envision Elon 204 Comprehensive Land Use Plan identifies the site as Institutional in its Future Land Use Classification. Institutional is defined as:

"These areas include Elon University, other campus-style development, and large-scale civic and government uses. As significant components of the development pattern, these areas are typically key destinations in town and can include community landmarks. Sites are designed and buildings are oriented to establish a positive relationship with and connections to adjacent development. Buildings, which typically have large footprints, vary in height up to five stories. Parking is located in large and small sur-face lots as well as along private and public streets to adequately serve multiple buildings. Facilities to support pedestrian and bicycle access are integrated. Small and moderately sized schools and churches may be included within these areas; however, such uses are also appropriate in other land use categories."

The Haggard Avenue Corridor Plan (Phase 1) was adopted by the Town Council on Map 11, 2021. The proposed residence hall and associated site improvements meet some of the recommendations of the Haggard Avenue Corridor Plan, including:

- Mid-block pedestrian crossings, plantings, pavement markings, materials changes, and signage.
- Street trees that vary in size, spacing and location.

Additional Considerations

The Technical Review Committee (TRC) reviewed the proposed residence hall plans at their August 10th and August 24th meetings. The primary discussions during the meetings were items that needed to be

Town of Elon Planning Board Meeting September 20, 2022

Staff Analysis

amended or added to the site plan. The Fire Marshal's office, the Fire Department Chief and Assistant Chief and the Town's consulting engineer had several questions regarding access to FDC's (Fire Department Connections) and emergency fire lane access widths. Staff also requested additional

elevations of the buildings to determine the impact on neighboring properties.

All of the items mentioned during the TRC meetings were addressed by the applicant and his

engineering/architectural team.

Recommendations and Suggested Motions

Staff recommends approval of the proposed major development plan, MDP-2022-02, for the East Neighborhood Commons residence hall as the proposed plan meets the requirements outlined in the LDO.

The plan also meets the future land use classification description outlined in the Envision Elon 2040

Comprehensive Plan and two of the recommendations outlined in the Haggard Avenue Corridor Plan,

Phase 1.

Staff recommends that the Planning Board consider this Major Development Plan proposal, accept public

comment during the scheduled meeting, and consider a recommendation to the Town Council on the

proposal at their earliest convenience.

Submitted by: Lori Oakley, Planning Director

Enclosures:

Major Development Plan Review Application

East Neighborhood Commons Major Development Plan

Aerial Map Zoning Map

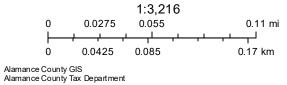
Future Land Use Map

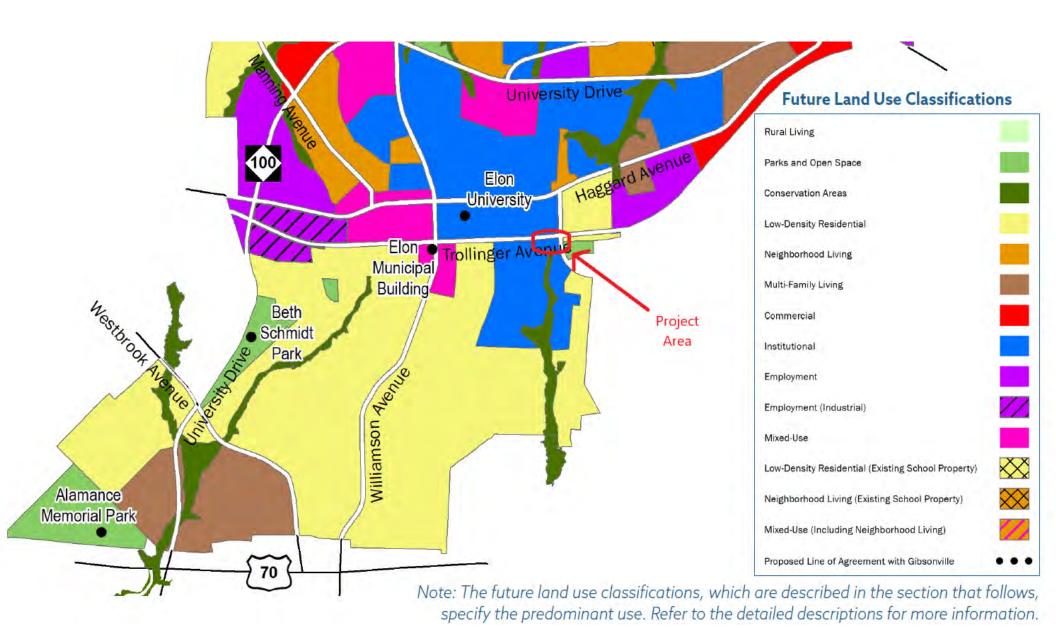
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Alamance County













ReGIS Partnership

Legend

Land Use











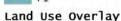














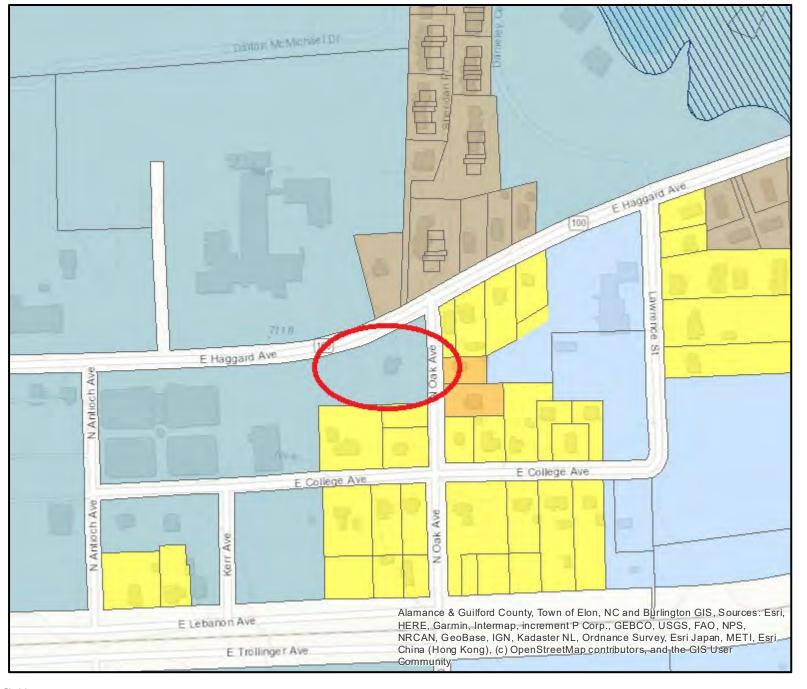






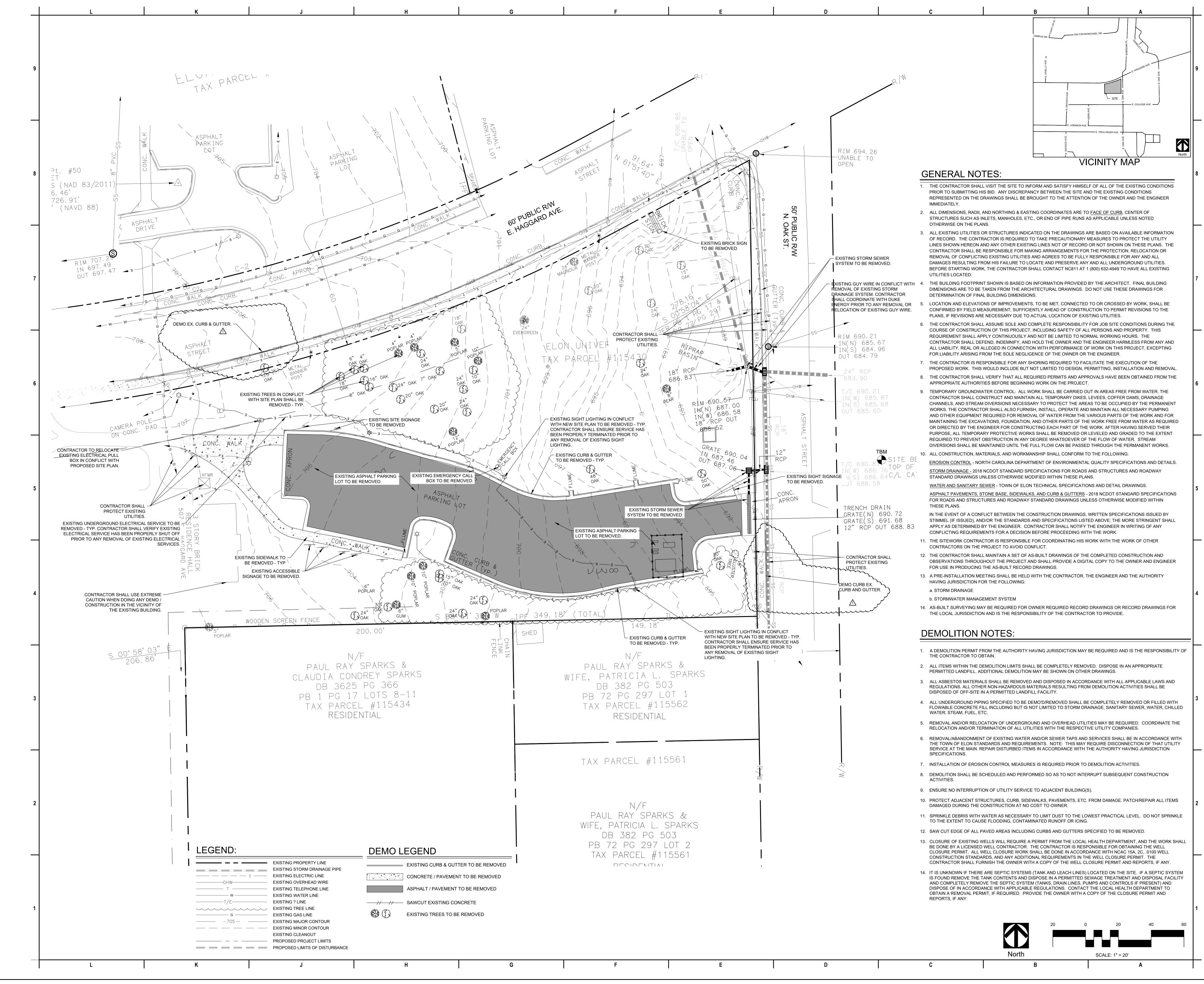
1 inch = 376 feet

Print Date: 8/12/2022



Disclaimer

This map was compiled from the GIS resources of the Burlington Regional GIS Partnership for public planning and agency support purposes. These resources include public information sources of different scale, time, origin, definition and accuracy, which aspects produce inconsistencies among features represented together on this map. Neither the Town of Elon nor the Partnership shall be held liable for any errors in this map or supporting data. Primary public information sources from which this map was compiled, in conjunction with field surveys where required, must be consulted for the verification of the information contained within this map.





EAST HAGGARD AVENUE

PROJECT TEAM

ARCHITECT &
LANDSCAPE ARCHITECT
AYERS SAINT GROSS
1040 HULL ST, SUITE 100
BALTIMORE, MD 21230
410-347-8500

STIMMEL ASSOCIATES 601 N TRADE ST, SUITE 200 WINSTON-SALEM, NC 27101 336-723-1067

STRUCTURAL
LHC STRUCTURAL ENGINEERS
(BENNETT & PLESS)
5340 WADE PARK BLVD, SUITE 400
RALEIGH, NC 27607
919-832-5587

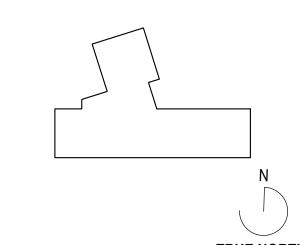
M/E/PEDMONDSON ENGINEERS
1920 HIGHWAY 54, SUITE 700
DURHAM, NC 27713
919-544-1936

REVISIONS

REV. # DESCRIPTION DATE

TRC COMMENTS RND 1 08/17/2022

KEY PLAN



AYERS
SAINT
GROSS



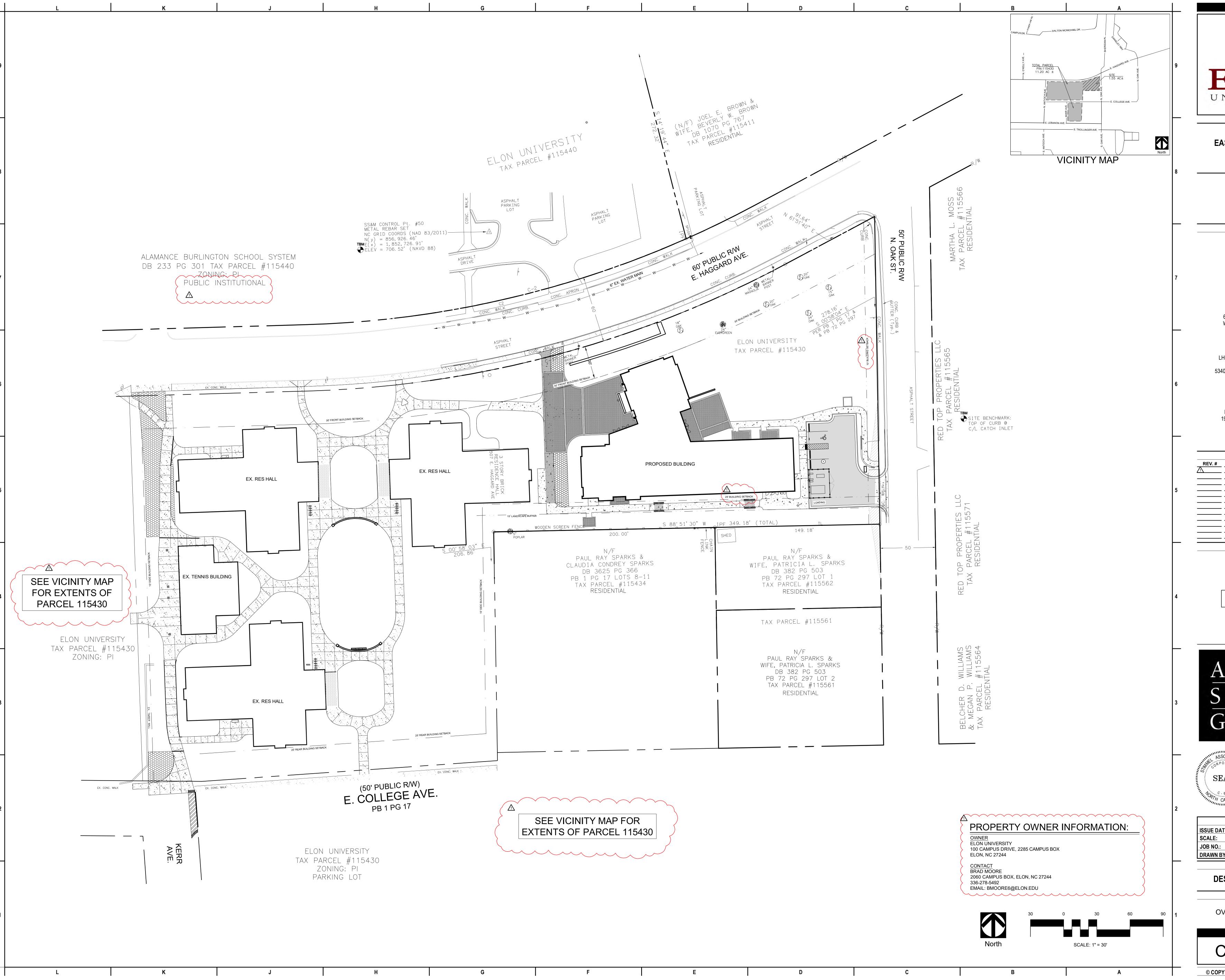
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DRAWN BY:	Author
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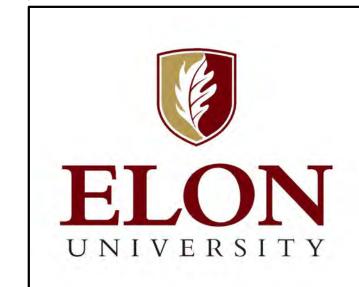
MAJOR DEVELOPMENT PLAN NOT FOR CONSTRUCTION

DRAWING NAME

EXISTING CONDITIONS / DEMOLITION PLAN

C-1.00





EAST HAGGARD AVENUE

PROJECT TEAM

ARCHITECT &
LANDSCAPE ARCHITECT
AYERS SAINT GROSS
1040 HULL ST, SUITE 100
BALTIMORE, MD 21230
410-347-8500

CIVIL
STIMMEL ASSOCIATES
601 N TRADE ST, SUITE 200
WINSTON-SALEM, NC 27101
336-723-1067

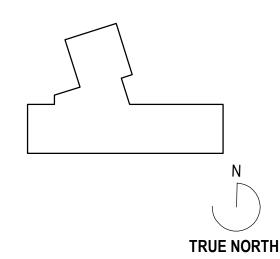
STRUCTURAL
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M/E/P EDMONDSON ENGINEERS 1920 HIGHWAY 54, SUITE 700 DURHAM, NC 27713 919-544-1936

REV. # DESCRIPTION DATE

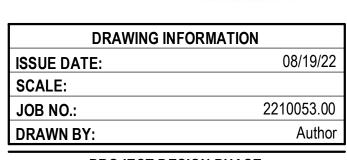
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PROJECT DESIGN PHASE

DESIGN DEVELOPMENT

DRAWING NAME

OVERALL SITE PLAN

C-2.00



EAST HAGGARD AVENUE

PROJECT TEAM

ARCHITECT &
LANDSCAPE ARCHITECT
AYERS SAINT GROSS
1040 HULL ST, SUITE 100
BALTIMORE, MD 21230

410-347-8500

CIVIL
STIMMEL ASSOCIATES
601 N TRADE ST, SUITE 200
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336-723-1067

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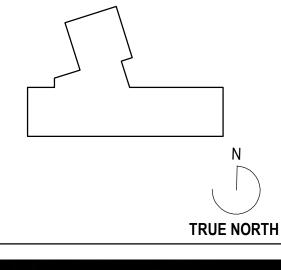
M/E/PEDMONDSON ENGINEERS
1920 HIGHWAY 54, SUITE 700

DURHAM, NC 27713

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| REVISIONS | DESCRIPTION | DATE | TRC COMMENTS RND 1 | 08/17/202: | TRC COMMENTS RND 2 | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/202: | 08/31/

KEY PLAN



AYERS SAINT GROSS



DRAWING INFORMATION

ISSUE DATE: 08/19/22

SCALE:

JOB NO.: 2210053.00

DRAWN BY: Author

PROJECT DESIGN PHASE

DESIGN DEVELOPMENT

DRAWING NAME

SITE PLAN

C-2.01

ELON UNIVERSITY

EAST NEIGHBORHOOD COMMONS

EAST HAGGARD AVENUE

PROJECT TEAM

ARCHITECT &
LANDSCAPE ARCHITECT
AYERS SAINT GROSS
1040 HULL ST, SUITE 100
BALTIMORE, MD 21230
410-347-8500

STIMMEL ASSOCIATES 601 N TRADE ST, SUITE 200 WINSTON-SALEM, NC 27101 336-723-1067

STRUCTURAL

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M/E/PEDMONDSON ENGINEERS
1920 HIGHWAY 54, SUITE 700
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919-544-1936

REVISIONS
DESCRIPTION DATE
TRC COMMENTS RND 1 08/17/2022

KEY PLAN

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AYERS SAINT GROSS

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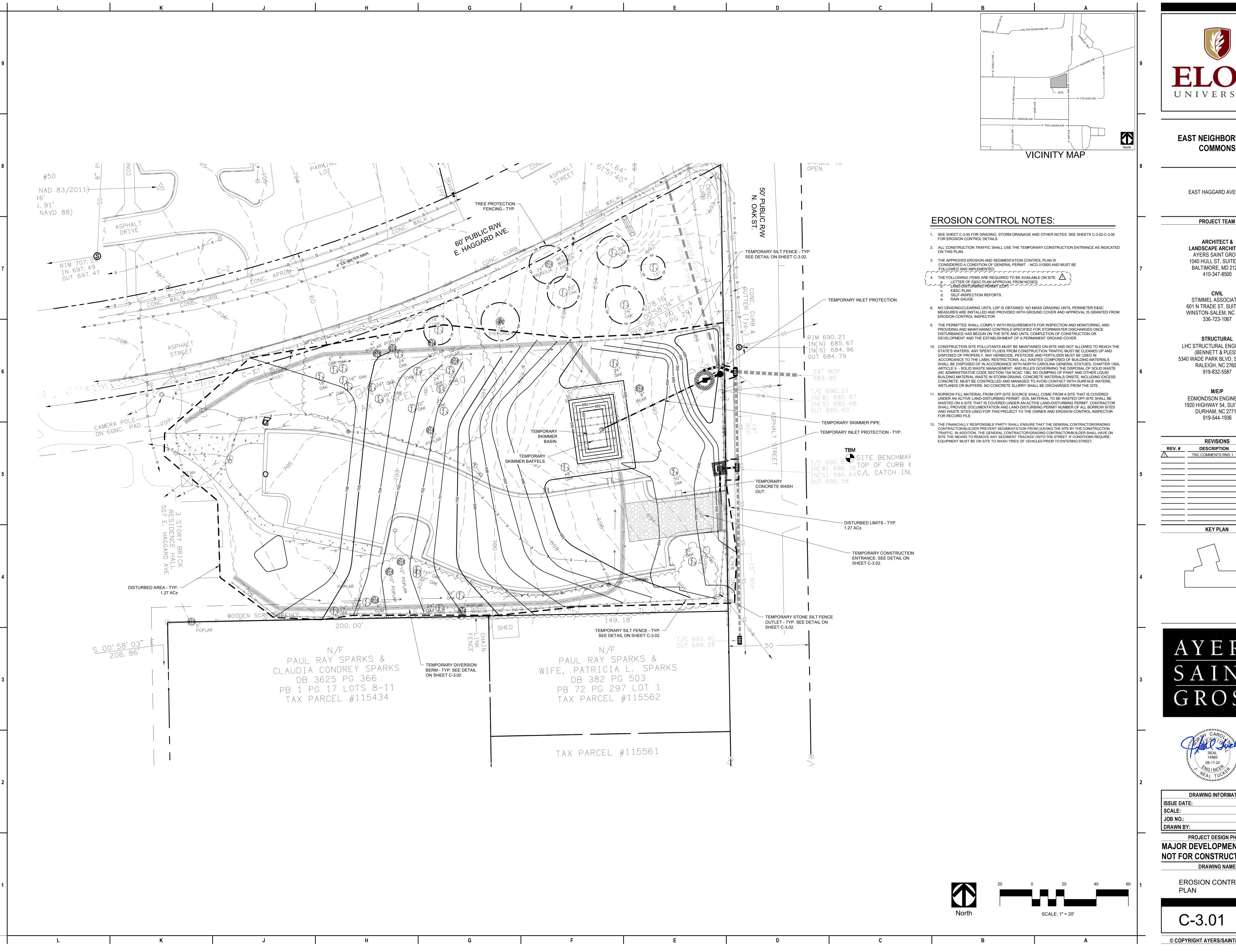
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PROJECT DESIGN PHASE

MAJOR DEVELOPMENT PLAN
NOT FOR CONSTRUCTION
DRAWING NAME

GRADING & STORM DRAINAGE PLAN

C-3.00





EAST HAGGARD AVENUE

PROJECT TEAM

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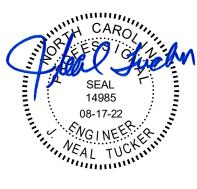
STIMMEL ASSOCIATES 601 N TRADE ST, SUITE 200 WINSTON-SALEM, NC 27101 336-723-1067

STRUCTURAL LHC STRUCTURAL ENGINEERS (BENNETT & PLESS) 5340 WADE PARK BLVD, SÚITE 400 RALEIGH, NC 27607 919-832-5587

EDMONDSON ENGINEERS 1920 HIGHWAY 54, SUITE 700 DURHAM, NC 27713 919-544-1936

KEY PLAN

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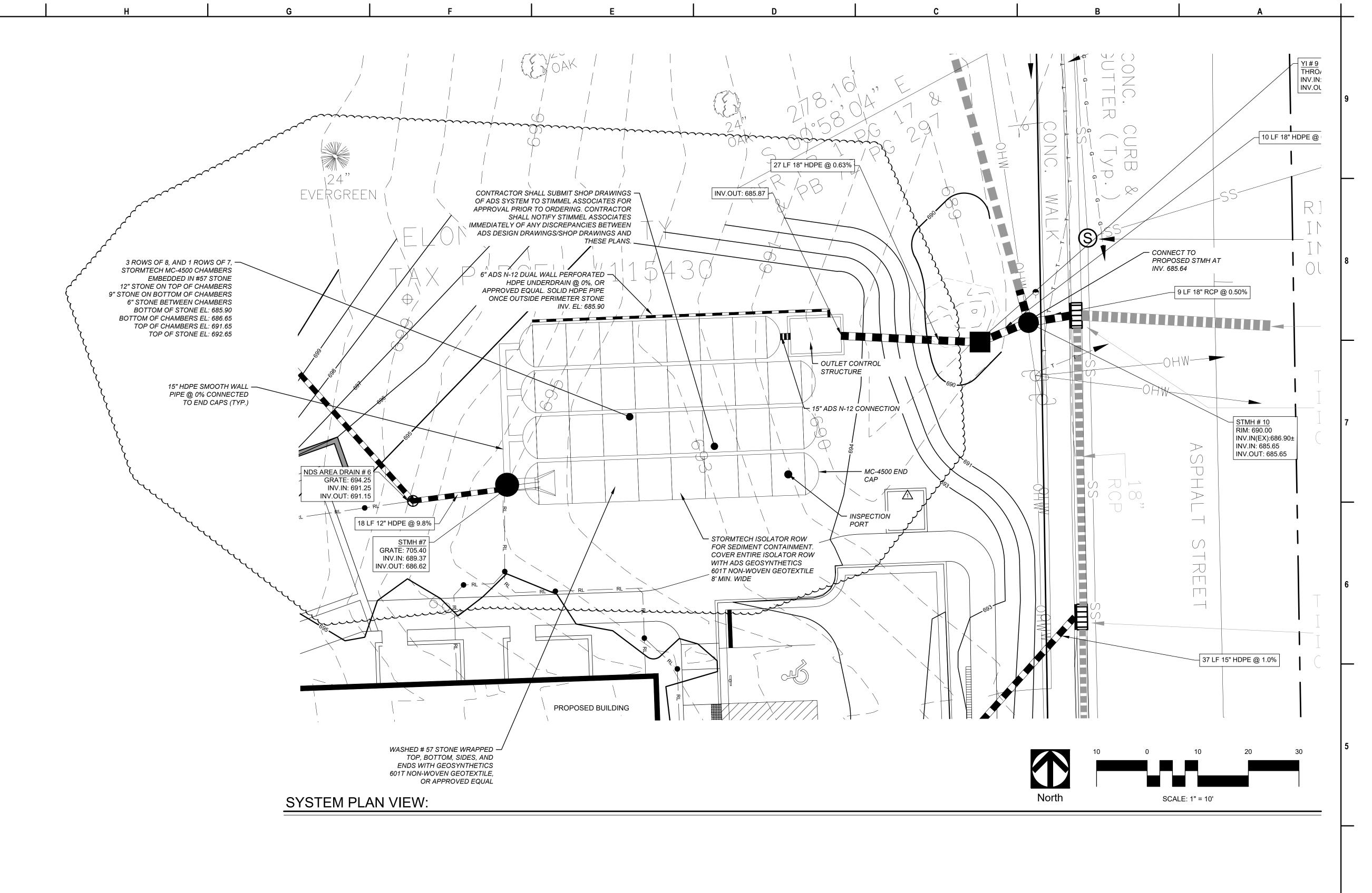
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MAJOR DEVELOPMENT PLAN NOT FOR CONSTRUCTION **DRAWING NAME**

EROSION CONTROL

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BAYFILTER MDC REQUIREMENTS MDC 1 (FLOW BASED SIZING) (NOT USED) MDC 2 (VOLUME BASED SIZING) WHEN UTILIZING UPSTREAM RETENTION/DETENTION, SIZE THE STORAGE SYSTEM AND FILTER TO CAPTURE AND TREAT 75% OF THE FIRST 1-INCH RAINFALL OR THE FIRST 1.5 INCH RAINFALL IN COSTAL COUNTIES. THE BAYFILTER SYSTEM IS DESIGNED PER THE VOLUME-BASED SIZING REQUIREMENTS. THE BAYFILTER WILL RECEIVE RUNOFF FROM THE FIRST INCH OF RUNOFF FROM THE CONTRIBUTING DRAINAGE AREA VIA THE STORM DRAINAGE CONVEYANCE SYSTEM WITHIN THE ROADWAY. THE STORMTECH CHAMBERS ARE BEING USED FOR DETENTION STORAGE ONLY. SEE APPENDICES FOR THE VOLUME BASED WATER QUALITY CALCULATIONS. MDC 3 (MEDIA FLOW RATE) THE BAYFILTER MEDIA FLOW RATE SHALL BE A MAXIMUM OF 0.5 GMP/FT² OF MEDIA SURFACE AREA. ALL BAYFILTER MEDIA SHALL BE PROVIDED BY BAYSAVER TECHNOLOGIES LLC, AND SHALL CONFORM TO THE MAXIMUM FLOW RATE OF 0.5 GPM/FT2 AS STATED BY MDC 3 IN THE NCDEQ STORMWATER MANUAL. MDC 4 (SEDIMENTATION) THE SYSTEM PRETREATMENT CREDIT SHALL BE 30% IF SYSTEM INCLUDES A MINIMUM SEDIMENT SUMP WITH MINIMUM DIMENSIONS OF 4' DIAMETER BY 2' DEEP. CATCH BASIN IMMEDIATELY UPSTREAM OF BAYFILTER SYSTEM HAS ACCOMMODATED THE 2' SUMP REQUIREMENT. MDC 5 (MEDIA TYPE) BAYSAVER USES THE SAME MEDIA FOR BOTH SEDIMENT (TSS) AND NUTRIENT (TP) REMOVAL. FOR METALS REMOVAL, A GRANULAR ACTIVATED CARBON (GAC) COMPONENT IS USED TO FACILITATE "ENHANCED METALS" (E.G. ZINC AND COPPER) REMOVAL. IN NUTRIENT SENSITIVE WATERSHEDS (NSW) AND FOR NUTRIENT REMOVAL CREDIT. IT IS UP TO NCDEQ AND THE LOCAL PERMITTING AUTHORITY TO ALLOW THE USE OF THE BAYFILTER DEVICE. FILTER MEDIA SHALL BE BY BAYSAVER TECHNOLOGIES LLC, AND SHALL CONSIST OF THE FOLLOWING MIX: A BLEND OF ZEOLITE, PERLITE, AND ACTIVATED ALUMINA WHICH IS SPECIFIC TO THE TSS REMOVAL REQUIREMENTS SET FORTH BY THE CITY OF WINSTON-SALEM STORMWATER ORDINANCE. MDC 6 (MAINTENANCE) MAINTENANCE SHALL BE PREFORMED PER BAYSAVER OPERATION AND MAINTENANCE INSTRUCTIONS AND PREFORMED BY CERTIFIED MAINTENANCE PROVIDERS. AN OPERATIONS AND MAINTENANCE AGREEMENT HAS BEEN PROVIDED AND THE SYSTEM SHALL BE MAINTAINED IN A WAY TO MEET ALL ELEMENTS AS SPELLED OUT IN THE APPROVED DOCUMENT. PRECAST OUTLET STRUCTURE SPECIFICATIONS PRECAST STRUCTURE TO BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN NORTH CAROLINA. SEALED STRUCTURAL SHOP DRAWINGS ARE REQUIRED. THE SHOP DRAWING SHALL STATE CONFORMANCE WITH THE FOLLOWING REQUIREMENTS AND OTHER APPLICABLE STANDARDS. SUBMIT THREE COPIES FOR REVIEW AND APPROVAL. 2. STRUCTURE TO BE DESIGNED FOR HS-20 TRAFFIC LOADING, THE BAFFLE WALL SHALL BE DESIGNED FOR HYDROSTATIC LOADING RESULTING FROM WATER LEVELS TO THE TOP OF THE STRUCTURE. 8. STRUCTURE DESIGN SPECIFICATIONS SHALL CONFORM TO LATEST ASTM C913 SPECIFICATIONS FOR "PRECAST CONCRETE WATER AND WASTEWATER STRUCTURES" AND NCDOT STANDARDS. 4. CONCRETE COMPRESSIVE STRENGTH 4,000 PSI MINIMUM. 5. STEEL REINFORCING DESIGN TO CONFORM TO THE REQUIREMENTS OF ASTM C890 SPECIFICATIONS FOR "STRUCTURAL DESIGN LOADING FOR WATER AND WASTEWATER STRUCTURES" AND SHALL UTILIZE GRADE 60 RE-BARS CONFORMING TO THE REQUIREMENTS OF ASTM A615 OR WWF CONFORMING TO THE REQUIREMENTS OF ASTM A185 OR BOTH. 6. PROVIDE ADDITIONAL REINFORCING AT OPENINGS. 7. STEPS REQUIRED AS SHOWN. STEPS SHALL BE STEEL REINFORCED COPOLYMER POLYPROPYLENE PLASTIC AND MEET THE REQUIREMENTS OF ASTM C478. 8. JOINT DESIGN TO CONFORM TO ASTM C-478. JOINTS TO BE SEALED WITH BUTYL RUBBER JOINT SEALANT CONFORMING TO FEDERAL SPECIFICATIONS SS-S-21A, AASHTO M-198, TYPE B - BUTYL RUBBER. PARGE THE JOINTS INSIDE AND OUT USING A NON-SHRINK GROUT. CONSTRUCTION SEQUENCE SUBMIT THE PRODUCT SUBMITTALS TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING THE MATERIALS. SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE TOWN OF ELON, ENGINEER, SITEWORK CONTRACTOR, AND OWNER. 3. CONSTRUCT THE BUIDLING, STORM, AND SEWER AS SHOWN ON THE PLANS. 4. TEMPORARILY DIVERT RUNOFF FROM UPLAND DISTURBED AREAS TO THE SKIMMER BASIN. EXCAVATE FOR THE STONE BED AND STORAGE CHAMBERS GEOTECHNICAL ENGINEER SHALL CONFIRM THE SCM SUBGRADE TO BE AT LEAST 2,000 PSF BEARING. CONFIRM FOUNDATION STONE DEPTH WITH THE ENGINEER. SET THE PRECAST OUTLET CONTROL STRUCTURE. 8. INSTALL GEOTEXTILE FABRIC AND FOUNDATION STONE. 9. INSTALL CHAMBERS AND PERFORATED UNDERDRAIN. 10. INSTALL MANIFOLD AND TEMPORARILY PLUG MANIFOLD TO PREVENT RUNOFF FROM ENTERING THE CHAMBERS DURING CONSTRUCTION. 11. COMPLETE THE BACKFILL AND COMPACT PER PROJECT SPECIFICATIONS. 12. SEND AS-BUILT SURVEY TO ENGINEER FOR REVIEW. 13. AFTER THE SITE CONSTRUCTION IS COMPLETE AND THE SITE IS FULLY STABILIZED, CONTACT THE ENGINEER FOR APPROVAL TO INSTALL THE BAYFILTER CARTRIDGE AND REMOVE THE TEMPORARY PLUG. CLEAN AND REMOVE ALL SEDIMENT FROM THE SYSTEM PRIOR TO INSTALLING THE BAYFILTER AS-BUILT SURVEY, ENGINEER CERTIFICATION & CITY APPROVAL OF THE AS-BUILT RECORDS IS REQUIRED PRIOR TO ISSUANCE OF CO. **ASBUILT SURVEY:** THE CONTRACTOR SHALL PROVIDE AN ASBUILT SURVEY BY A PROFESSIONAL LAND SURVEYOR TO THE ENGINEER FOR REVIEW. ITEMS CONSTRUCTED THAT DO NOT COMPLY WITH THE PLANS AND SPECIFICATIONS WILL BE CORRECTED BY THE CONTRACTOR AT NO COST TO THE OWNER. A RESURVEY WILL NEED TO BE PERFORMED IN SUCH CASES. SURVEYOR WILL NEED TO TAKE MULTIPLE TRIPS DURING CONSTRUCTION TO EXECUTE SHOTS NEEDED. THE ASBUILT SURVEY SHALL INCLUDE THE FOLLOWING: SPOT GRADES OF FOOTPRINT OF ADS CHAMBER PIT PRIOR TO BOTTOM STONE INSTALL OUTLET CONTROL STRUCTURES INVERTS IN AND OUT, ORIFICE INVERT, UNDERDRAIN INVERT, WEIR INVERTS WITH INVERT SIZES, AND RIM ELEVATIONS. LENGTH OF ADS SYSTEM ROWS. TOP ELEVATIONS OF CHAMBERS ALL CORNERS OF FOOTPRINT. OUTLET CONTROL STRUCTURE WITH ELEVATIONS AND SIZES OF WEIR WALLS AND ORIFICES. AUTOCAD FILE WITH POINTS HARDCOPY OF SIGNED AND SEALED ASBUILT SURVEY REQUIRED SUBMITTALS PRIOR TO CONSTRUCTION: . COMPLETE SUBMITTAL FOR THE MANIFOLD PIPES, END CAPS, TYPICAL INSTALLATION DETAILS, MATERIAL SPECIFICATIONS, OPERATION & MAINTENANCE PROCEDURES, ETC. 2. PRECAST OUTLET CONTROL STRUCTURE 3. PERFORATED UNDERDRAIN 4. GEOTEXTILE FABRIC 5. OUTLET CONTROL STRUCTURE AND MANHOLE RING & COVERS STORMWATER MANAGEMENT NOTES: THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SILTS OR FINES FROM CONTAMINATING THE ADS STORMTECH SYSTEMS. IF THE ADS STORMTECH SYSTEM BECOMES CONTAMINATED THE CONTRACTOR WILL REMOVE THOSE PORTION(S) OF STONE AND RESET ADS STORMTECH SYSTEM AT NO PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW AND APPROVAL ALL MATERIALS PROPOSED IN THE ADS AND BAYFILTER SYSTEM(S), INCLUDING THE ADS CHAMBERS, OUTLET CONTROL STRUCTURES WITH WEIR WALLS, PIPES AND UNDERDRAINS, AND BAYFILTER BOX. B. GC TO SCHEDULE PRE-CONSTRUCTION MEETING WITH GC, UTILITY SUBCONTRACTOR, ADS REPRESENTATIVE, AND STIMMEL ASSOCIATES ONE MONTH PRIOR TO CONSTRUCTION OF ADS STORMTECH SYSTEM. I. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE AN INSPECTION BY STIMMEL ASSOCIATES OR ADS REPRESENTATIVE. IF THE ADS STORMTECH SYSTEM(S) IS CONSTRUCTED WITHOUT BEING WITNESSED BY STIMMEL ASSOCIATES OR ADS REPRESENTATIVE, THE CONTRACTOR WILL BE REQUIRED TO REMOVE AND REINSTALL THE WORK NOT WITNESSED. 5. NO EXCESSIVE OFFSITE DRAINAGE SHALL CONTRIBUTE TO THE ADS SYSTEM DRAINAGE AREA. 6. CONTRACTOR RESPONSIBLE FOR CLEANING OUT ALL SEDIMENT FROM UNDERGROUND STORAGE PIPES AFTER COMPLETION OF STORMWATER MANAGEMENT SYSTEM.





EAST NEIGHBORHOOD COMMONS

EAST HAGGARD AVENUE

PROJECT TEAM

ARCHITECT &
LANDSCAPE ARCHITECT
AYERS SAINT GROSS
1040 HULL ST, SUITE 100
BALTIMORE, MD 21230

410-347-8500

STIMMEL ASSOCIATES 601 N TRADE ST, SUITE 200 WINSTON-SALEM, NC 27101 336-723-1067

STRUCTURAL
LHC STRUCTURAL ENGINEERS
(BENNETT & PLESS)
5340 WADE PARK BLVD, SUITE 400
RALEIGH, NC 27607
919-832-5587

M/E/P EDMONDSON ENGINEERS 1920 HIGHWAY 54, SUITE 700 DURHAM, NC 27713 919-544-1936

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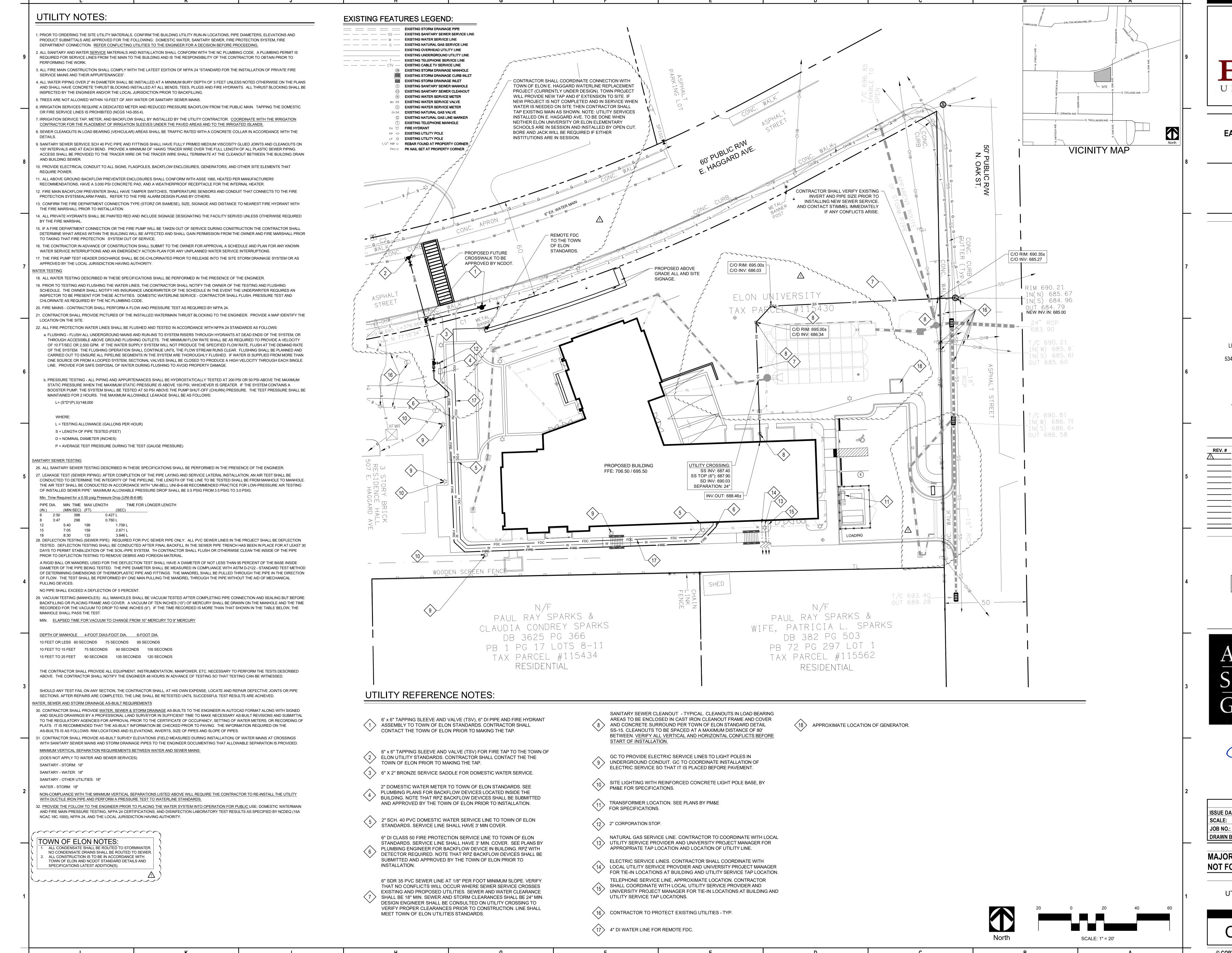
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STORMWATER
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ARCHITECT &
LANDSCAPE ARCHITECT
AYERS SAINT GROSS
1040 HULL ST, SUITE 100
BALTIMORE, MD 21230

410-347-8500

STIMMEL ASSOCIATES 601 N TRADE ST, SUITE 200 WINSTON-SALEM, NC 27101 336-723-1067

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(BENNETT & PLESS)

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RALEIGH, NC 27607

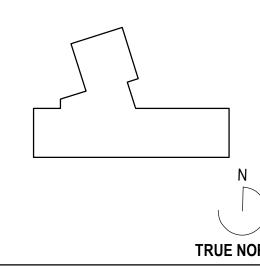
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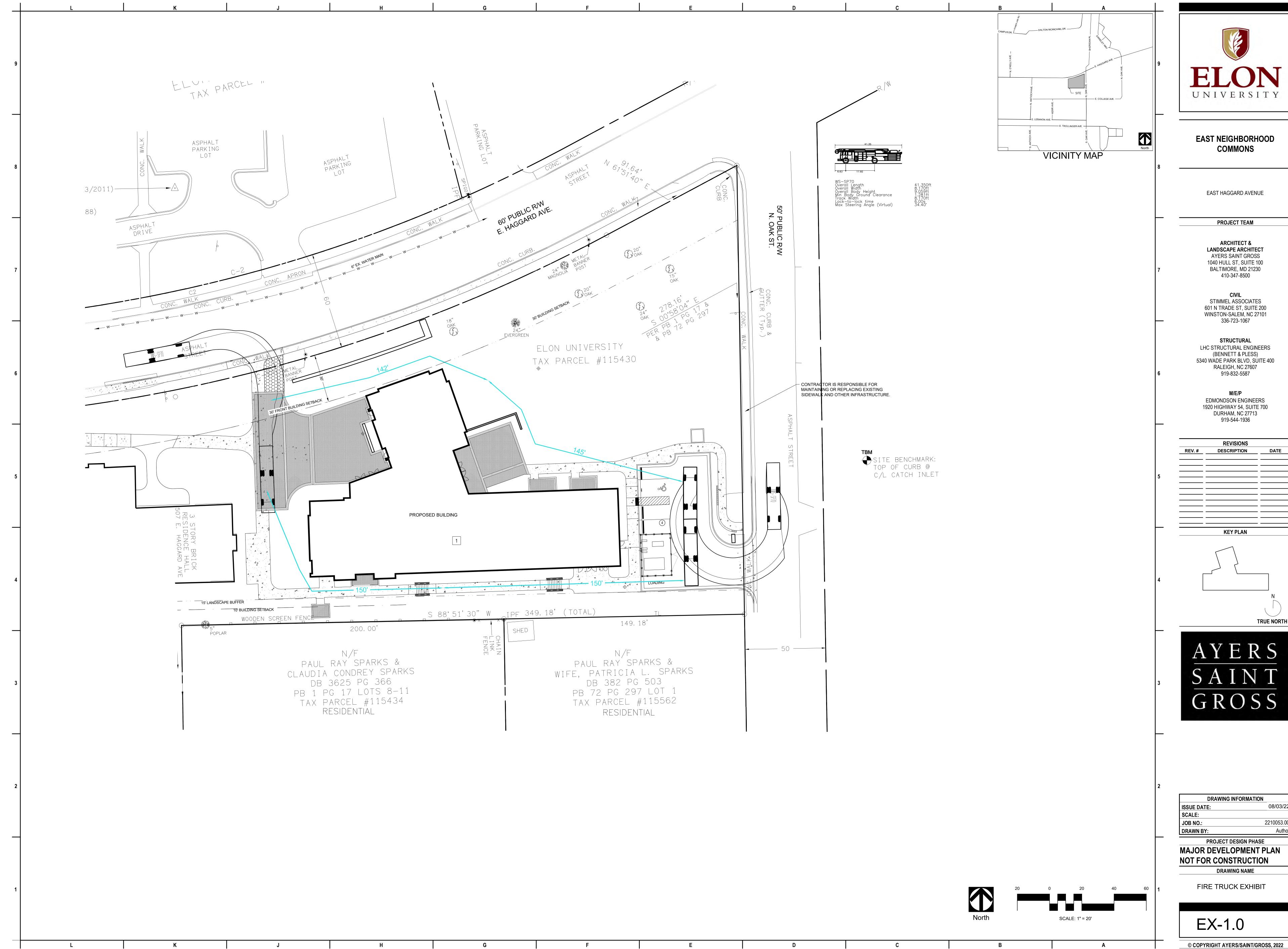
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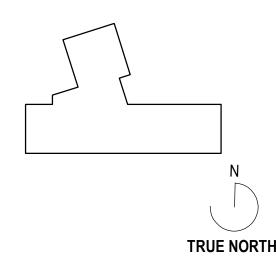
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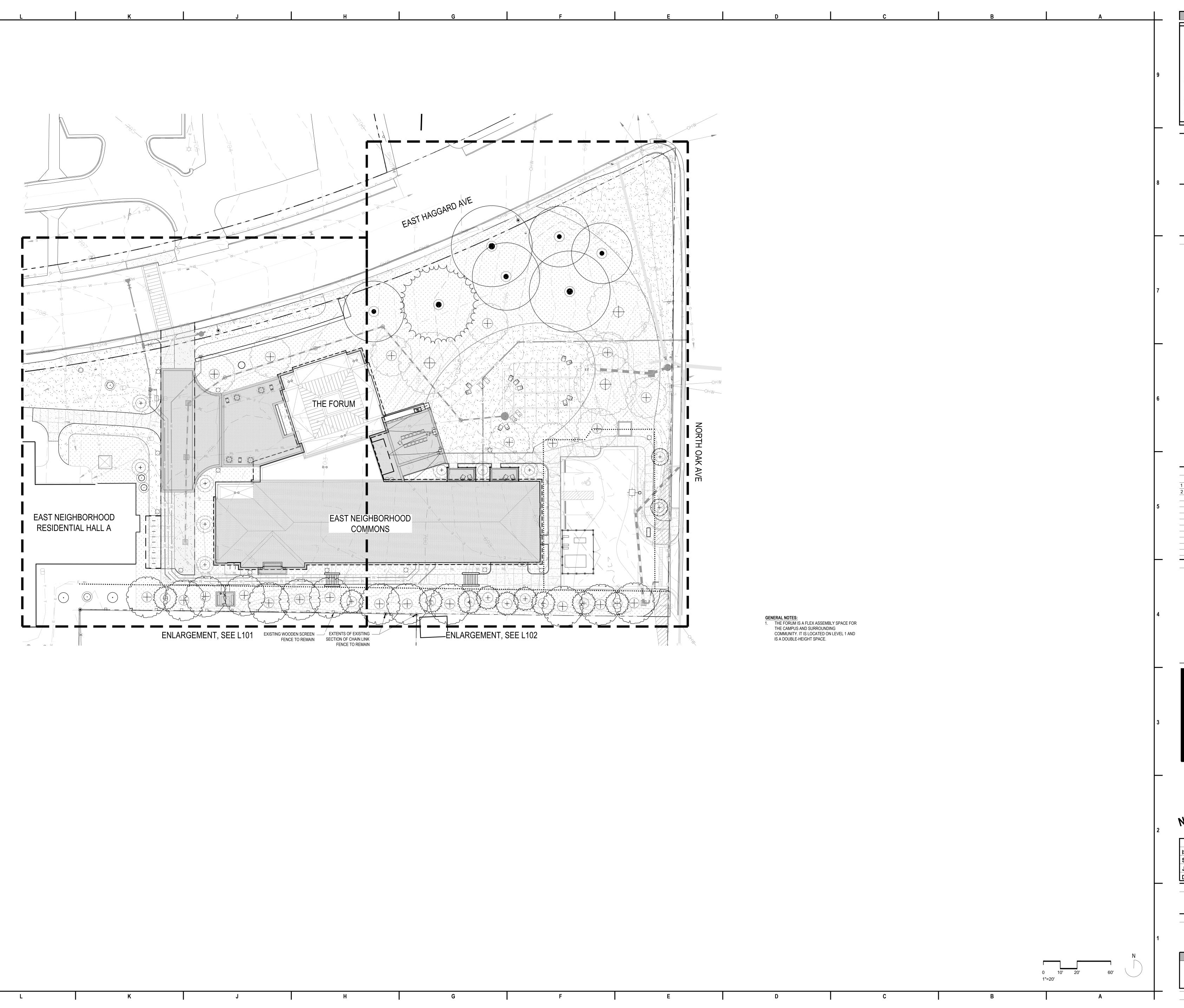


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ARCHITECT &
LANDSCAPE ARCHITECT
AYERS SAINT GROSS
1040 HULL ST, SUITE 100
BALTIMORE, MD 21230
410-347-8500

CIVIL
STIMMEL ASSOCIATES
601 N TRADE ST, SUITE 200
WINSTON-SALEM, NC 27101
336-723-1067

STRUCTURAL

LHC STRUCTURAL ENGINEERS
(BENNETT & PLESS)
5340 WADE PARK BLVD, SUITE 400
RALEIGH, NC 27607

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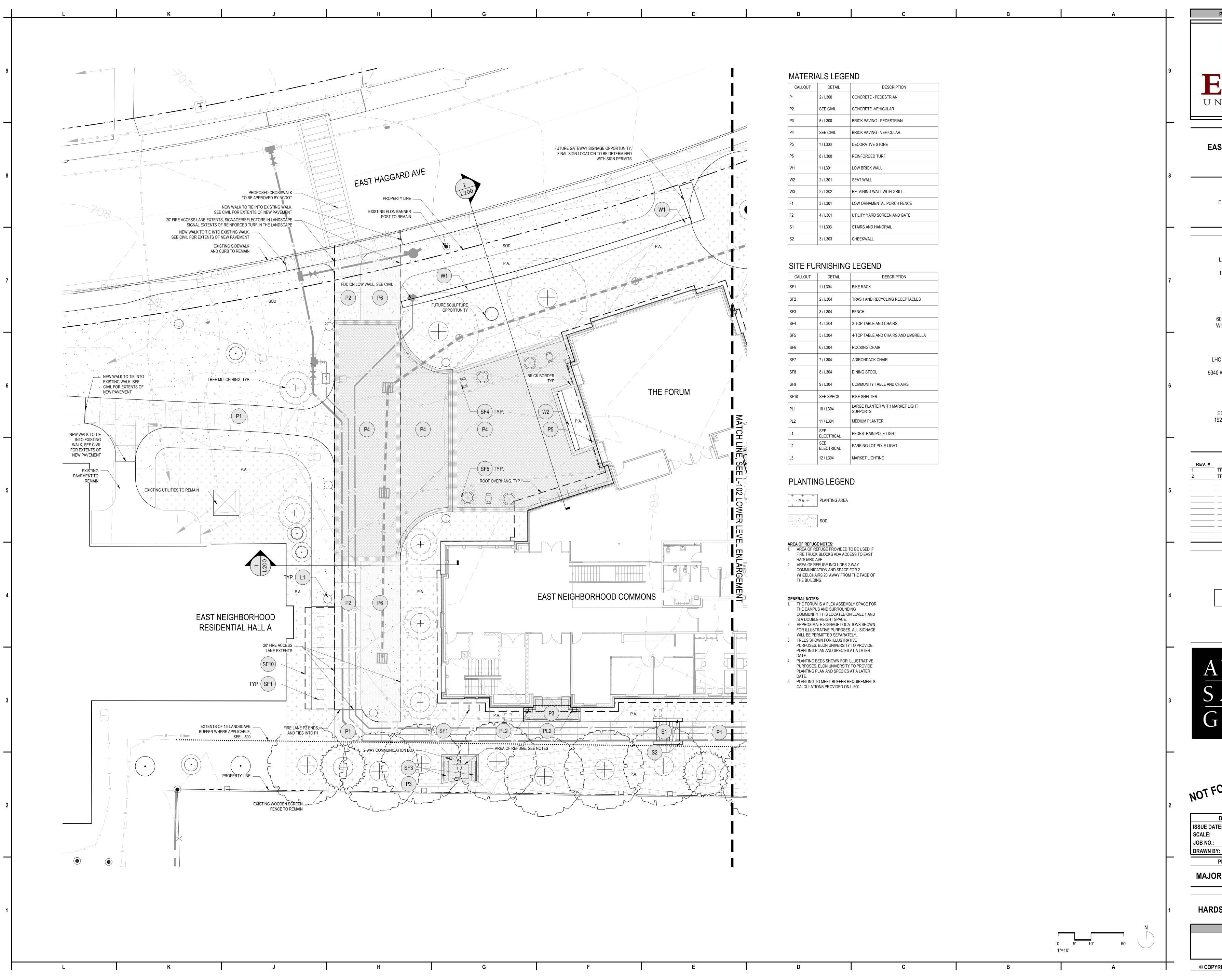
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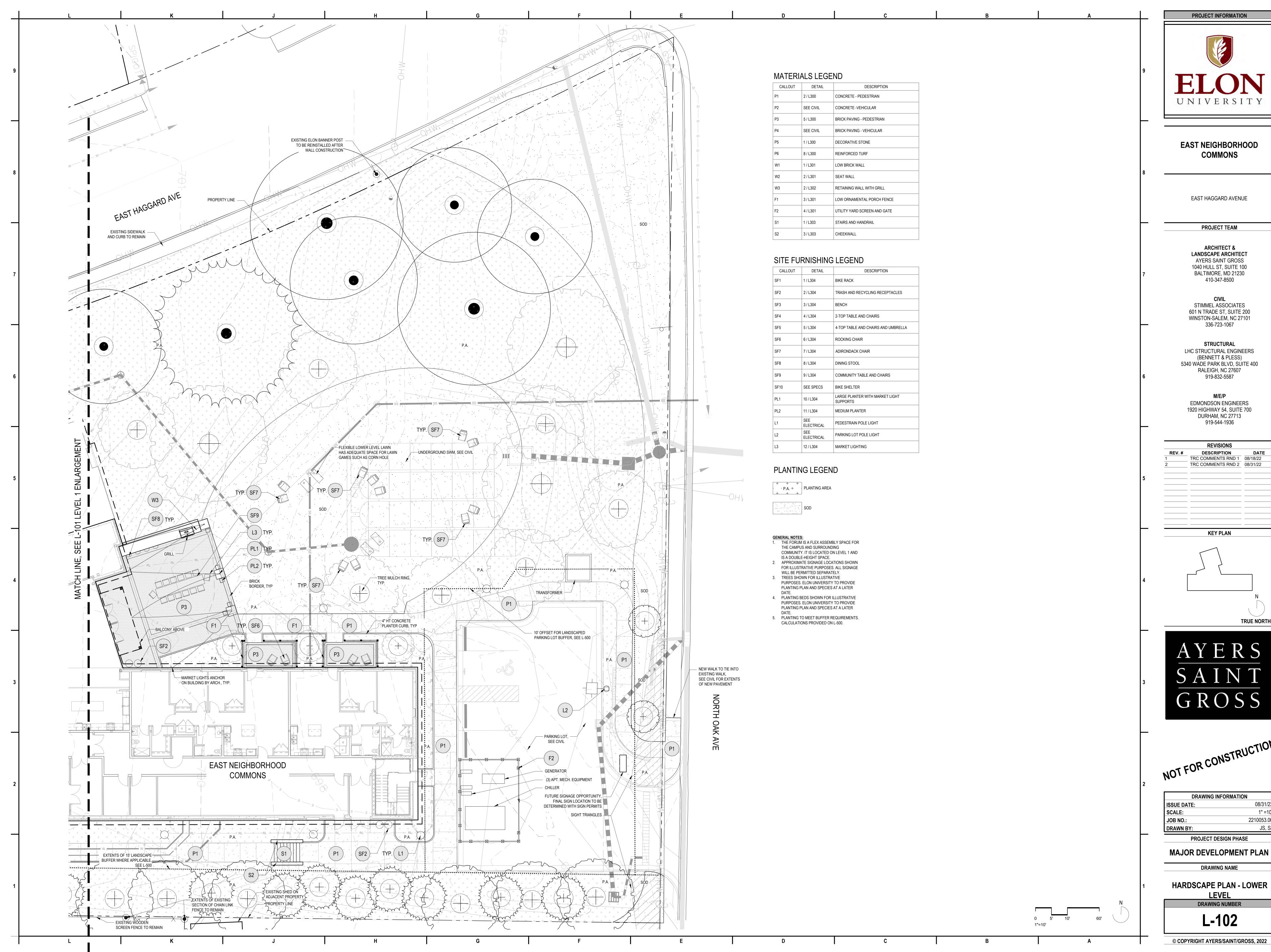
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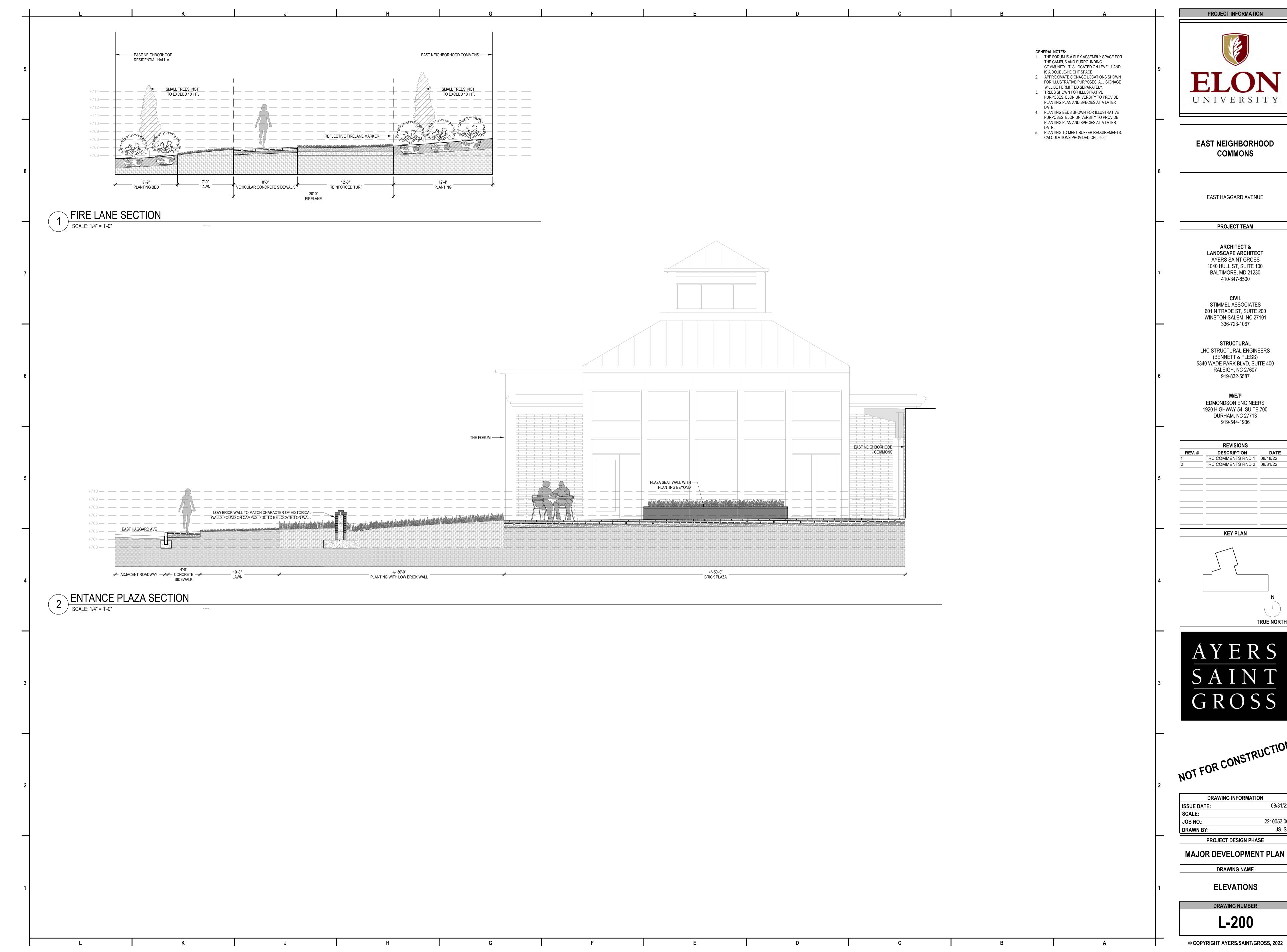
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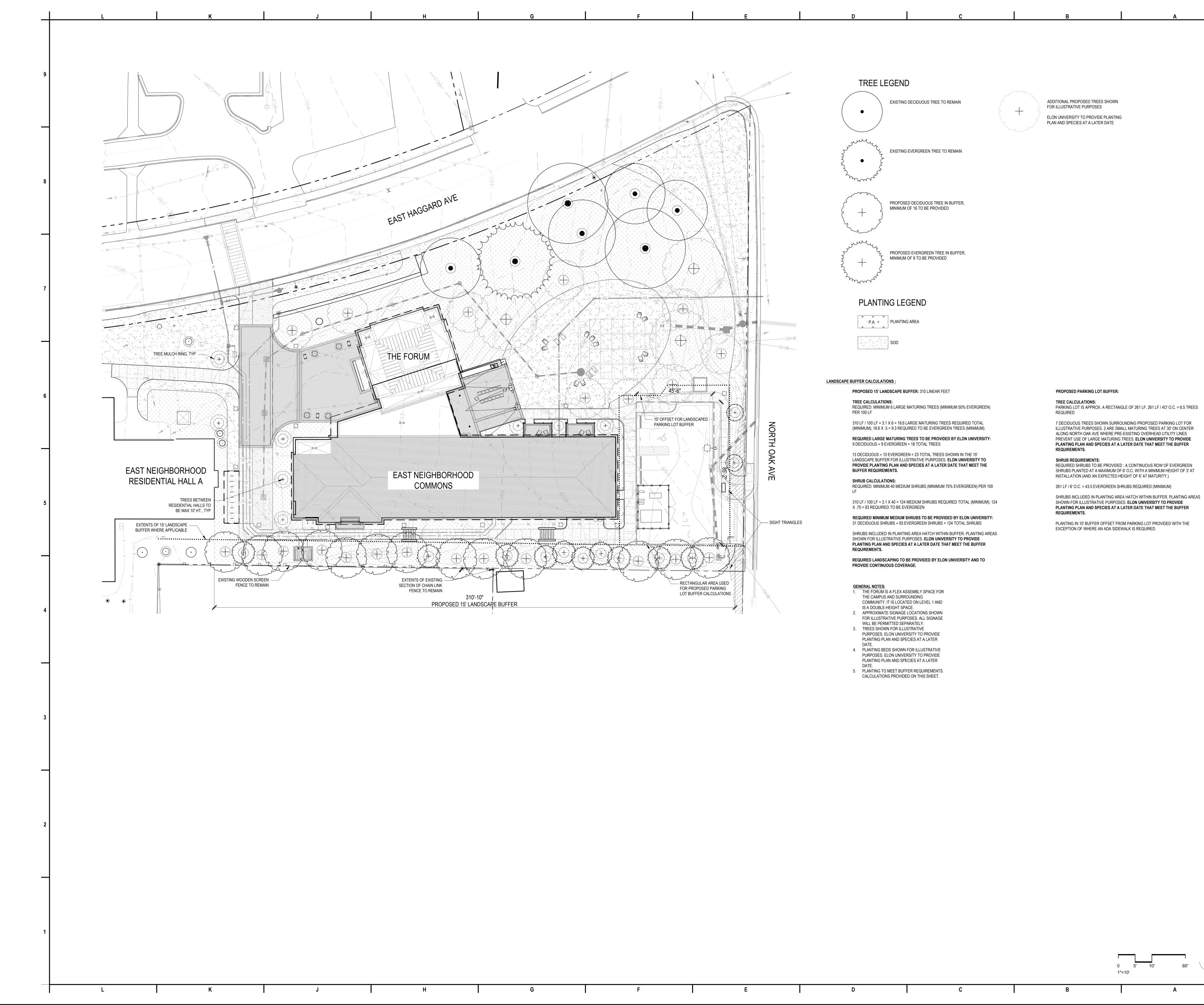
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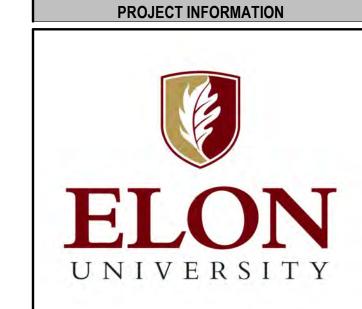
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EAST HAGGARD AVENUE

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AYERS SAINT GROSS
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410-347-8500

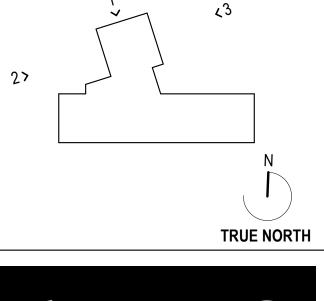
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MAJOR DEVELOPMENT PLAN

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EXTERIOR ELEVATIONS

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1 SOUTH ELEVATION 1/8" = 1'-0"

USE GROUP (OCCUPANCIES) PER 2018 NCSBC:

• 310.4 R-2, Residential (Dormitories): Lower Level - Level 3

• 303.4 **A-3 Assembly:**

Entertaining Space (Concentrated chairs): Lower Level
Study Rooms (Unconcentrated table and chairs): Lower Level Forum (Concentrated chairs): Level 1 Living Room Lounges (Unconcentrated table and chairs): Lower Level - Level 3

• 304.1 <u>B, Business:</u>

Housing Office: Level 1

• 311.2 <u>S-1, Storage/ Utility (Storage, Equipment Rooms):</u> Lower Level 3

PROJECT INFORMATION UNIVERSITY

> **EAST NEIGHBORHOOD** COMMONS

> > EAST HAGGARD AVENUE

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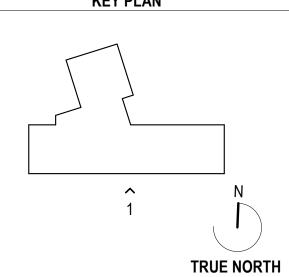
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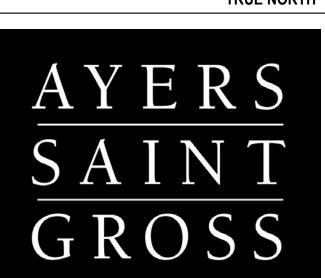
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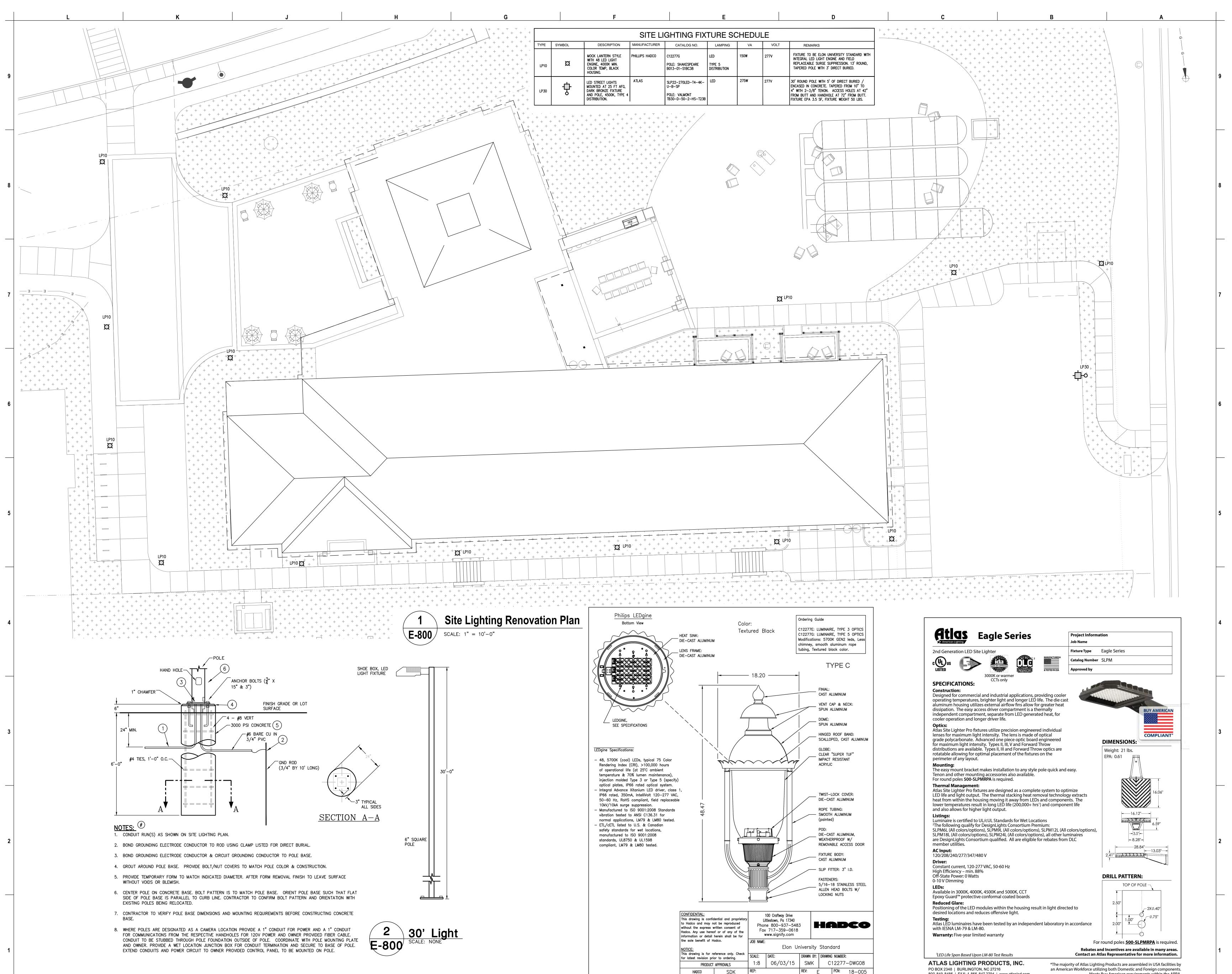
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EAST NEIGHBORHOOD

EAST HAGGARD AVENUE

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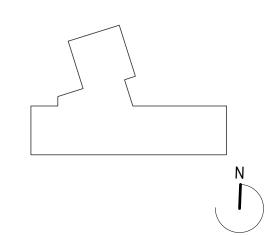
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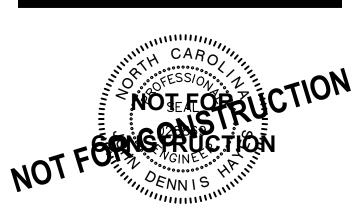
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MAJOR DEVELOPMENT PLAN

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ELECTRICAL SITE PLAN

DRAWING NUMBER E-800

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