CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN SITE PLAN AND PUD REZONING FOR CITY COUNCIL

FIVE CORNERS AT ANN ARBOR

g. Sheet index and date of plan set. See Cover Sheet.

CITY OF ANN ARBOR REQUIRED SITE PLAN INFORMATION

A. Required Site Plan Information 1. Cover Sheet – The following general project information should be provided on the cover sheet of the plan set and

subsequent sheets as appropriate.

a. Project name, address or location, and type of site plan. FIVE CORNERS at Ann Arbor, 732 Packard Street, Ann Arbor, MI 48104; Site Plan for PUD Rezoning for City Council Approval.

b Petitioner and agent information including name address and contact information Petitioner: Core Spaces, LLC, 1643 N. Milwaukee Ave., Chicago, IL 60647, 501-786-1736 Attn. Agent: Midwestern Consulting LLC, 3815 Plaza Drive, Ann Arbor, MI 48108; Ph. (734) 995-0200; Attn. Scott W. Betzoldt. c. Statement of interest in the land, including conditions for sale or purchases of parcels such as deed

restrictions, reservation of land for other uses, or other conditions which may have bearing on the total The property is under sales contract. A letter of authorization to submit the Site Plan has been d. Vicinity map identifying the location of the Site within the City, including nearest major roads and significant

features such as schools, shopping centers and parks. See Cover Sheet. e. North indicator (pointing up or to the left) and drawing scale in bar graph form. Shown on all relevant f. Legal description of the Site, including total acreage of the parcel(s) and total acreage of public or private roads contained in the legal description. See Existing Conditions and Survey Plan.

h. Required Statements - A brief written statement addressing the following concerns: i) Identification of associated applications such as annexation petition, rezoning petition, PUD Zoning District petition, Special Exception Use petition, planned project modification request, landscape modification request or variance application. Identification of special circumstances associated with the application that require additional procedures or specific approvals such as Natural Features buffer area. A Site Plan application for PUD Rezoning is being proposed. A PUD is being sought for deviations to the area, height and placement regulations and landscape

requirement modifications. ii) Proposed development program, including proposed land use, improvements, Floor Area or number of Dwelling Units and bedrooms, access and circulation, off-street parking, preliminary construction phasing and estimated construction costs. The proposed development is located in the C1A/R zoning district. The site has frontage on State Street and Packard Street. Both State and Packard Streets are primary frontages. The project includes removal of eight student rental homes, a shared use hardware/carryout restaurant, a three story as apartment building and an office building.

Proposed Development Summary: Two buildings: a 14 story apartment building fronting Packard Street and a 2 story commercial/retail structure fronting State Street.

441,096 sf of floor area including the retail space Building height: 116' to 180'

Storm water management: an underground tank at the southwest part of the site with a pumped discharge to City storm sewer in Packard Street.

A 3' wide public access easement will be provided along both frontages to allow installation 78 total parking spaces are provided including 4 barrier free underground and 4 surface spaces including 1 barrier free and 3 rideshare spaces.

Stormwater will be collected primarily through roof drains with limited surface collection. The roof conductors and surface drains will be routed to a detention chamber located in the access drive and parking area at the southwest portion of the site. Proposed Phasing and Probable Construction Cost. The development will be constructed in one phase, beginning on or before 8/5/2024, with completion on or before 6/7/2026. The estimated construction cost is \$48,000,000.

iii) Community Analysis (a) Impact of proposed Development on public schools. The units are apartments with studios, 1 to 5 bedrooms, and townhome units. The units are designed primarily for young professionals, faculty, visiting professors, and college students. The number of children living in the building is expected to be minimal so there will be virtually

no impact on public elementary and high schools. (b) Relationship of intended use to neighboring uses. The residential units will provide additional housing and interior parking very close to the University of Michigan Athletic Campus and Central Campus. The residents are likely to patronize sting restaurants, proposed retail, and other businesses in the nearby buildings, and may attend local churches. The proposed commercial use will provide services for the residences and for the neighborhood. Adjacent buildings include a mix of

(c) Impact of adjacent uses on proposed development. Residents will likely patronize the businesses and institutions in the surrounding area.

(d) Impact of proposed Development on the air and water quality, and on existing Natural Features of the Site and neighboring Sites. There will be no significant impact on air and water quality is expected. There are 2 landmark trees proposed for removal. (e) Impact of the proposed use on historic Sites or structures which are located within an historic district or listed on the National Register of Historic Places. The site is not within a

historic district and the existing buildings are not historic structures. (f) Natural Features General Descriptions and Impacts: A brief summary of the Natural Features (Woodlands, Wetlands, Water Courses, Landmark Trees, Steep Slopes and Endangered Species Habitat) found on the Site. A detailed report of the quality, character. and health of all existing Natural Features, and identification of all proposed impacts to

Endangered Species Habitat: Natural Features on the site include 4 Landmark Trees noted below. 100-Year Floodplain: none on the site. Landmark Trees: 4, 2429-43" White Oak, 2430-35" White Oak, 2431-37" White Oak,

2432-44" White Oak. Steep Slopes: none. Existing Watercourses: none

Wetlands: none.

iv) Traffic Statement: The number of vehicle trips per unit per peak hour and supporting documentation from the ITE Manual. A Traffic Impact Assessment report has been submitted under separate cover.

v) Public Sidewalk Maintenance Statement See Cover Sheet, General Notes number 1 . Comparison Chart of Requirements and Existing and Proposed i) Zoning Classification, Existing-C1A/R, Proposed-PUD ii) Lot Area. 1.27 acres, 55,507 square feet.

iii) Total area of all Floors (measured from exterior faces of the exterior walls or from the center line of walls separating two Buildings). Floor Area and Floor Area Ratio (FAR), or Density. 441,096 sf gross including residential, leasing and amenity area; commercial/retail space iv) Open Space and Active Open Space. 25.2% / 13,999 sf Active open space; 4,545 sf / 8.2% provided (included in total open space area).

 v) Required Setbacks and Yards (front, side and rear Front (State and Packard St.): 5.0 feet & 5.25 feet. Side: North, 5.07'. Side (South): 10.19 feet vi) Height and stories. 116' to 180', 14 stories.

vii) Off-street vehicle parking, including accessible and barrier free spaces.

Exterior: 4 spaces, 3 ride share + 1 barrier free van Interior: 78 total: (4 barrier free, 74 standard spaces), (16 EV-I + 62 EV-C) Total Vehicular Parking: 82 spaces provided.

Class A: 329 spaces provided Class C: 12 spaces provided Total Bicycle Parking: 341 spaces provided.

ix) Notation of variances granted or proposed, planned project modifications approved or proposed. PUD approval requested per development summary and possible landscape modification. 2. Existing Conditions Plan- Drawings and written descriptions of the existing conditions of the Site must be included on the plans, including the following: a. ALTA Land Survey. See Existing Conditions and Survey Plan.

i) Exception: Where there are no existing public utilities on the Site, the Planning Manager may waive the requirement to provide an ALTA Land Survey for Site Plans for Administrative Approval or when the combination of existing conditions and proposed Development are so minor that preparing an ALTA Land Survey would be a significant financial hardship to the Applicant. In hose cases, an existing conditions plan illustrating the boundaries of the Site, location of all structures and improvements, and any easements, prepared by a professional land surveyor must

be provided, N/A. b. Existing and proposed contours extending 50 feet beyond the Site at a minimum interval of two feet. See Existing Conditions and Survey Plan, and Grading Plan. c. If new City public sanitary sewer, water mains, Storm Water Management System, or streets are proposed

in conjunction with a site plan, the plans must be referenced to the Ann Arbor Geodetic Reference System. The survey is referenced to the AAGRS (State Plane Coordinates, Michigan South Zone (2113). 3. Dimensional Layout Plan – Drawings and written descriptions of the proposed Development must be provided on the plans, demonstrating compliance with all applicable Development standards such as building area, height and placement, off-street parking, streets and access, including the following: See Dimensional Site Plan. a. Existing and proposed Lot lines. Shown.

b. Minimum and maximum Required Setback Lines, including Established Front Building Line and required increases to the normal minimum side and rear setbacks, if applicable; existing and proposed Front, Side c. Existing and proposed Buildings. See Existing Conditions and Survey Plan for existing buildings. See

Dimensional Site Plan for proposed building.

d. Vehicle Parking Spaces, aisles and Driveways. Identify any "no parking" areas or fire lanes and indicate any proposed signage. See Dimensional Site Plan. e. Bicycle parking, including detail of facilities. See Dimensional Site Plan and Architectural Plans. and f. Curb Cuts, drive Approaches and curb radii dimensions, including all Curb Cuts on the opposite side of the street from the Site. Dimension of all Fire Department access roads or lanes, if applicable, including width

at hydrant, dead end lengths, turn-around location, turning radii, etc. See Dimensional Site Plan, Utility Plan and Fire Protection Plan. g. Open Space and Active Open Space. Minimum 10% required; 25.2% / 13,999 sf provided. Active 8.2% and 4,545 sf h. Natural features buffer. N/A.

i. Conflicting land use buffer. N/A. j. Solid waste enclosure, including dimensioned detail. See Architectural Plans. k. Perspective sketch of building showing Streetwall Height and Offset, if applicable. See Architectural

4. Natural Features Plan - Drawings and written descriptions identifying all Natural Features on the Site, proposed protection measures for avoiding disturbance to existing Natural Features, alternatives analysis, and proposed nitigation for any disturbed or removed Natural Features to determine compliance with applicable Development standards must be included on the plan, including the following: See Natural Features Impact Statement on Existing Conditions and Survey Plan. a. Accurate location and description of all Natural Features within the Limits of Soil Disturbance and in an

area extending 50 feet beyond the Limits of Soil Disturbance, including:
i) Limits of Soil Disturbance. See Grading Plan. ii) Boundary and description of any Endangered Species Habitat. N/A.

iii) Boundary and elevation of any 100-year floodplain. N/A. iv) Location, species and Critical Root Zone and condition of Landmark Trees. N/A. v) Location of all Steep Slopes and a cross section through the Site showing the proposed activity in

relationship to the topography. N/A. vi) Existing and proposed Watercourses showing depths, normal water levels, shore gradients, type of bank retention and shore vegetation. N/A. vii) Boundary and character of all Wetlands. N/A.

b. Boundary and basal area of any Woodland, with location, species and DBH of all trees six inches DBH or greater within the Woodland area. N/A. c. Location and extent of required Natural Features buffer. Identification of any temporary or permanent activity (i.e. impacts or disturbance) within the Natural Features buffer. N/A.

d. When any activity within the Natural Features buffer is proposed, a written justification responding to each general criteria for determining a proposed activity in the Natural Features buffer is in the public interest. e. Protection measures for those existing Natural Features proposed to be protected as part of the

provided for landmark trees to remain. . Identification of all Natural Features proposed to be impacted, disturbed, or removed by the Development, including the construction of the Development, Refer to sheet 12 Natural Features analysis g. Alternatives Analysis: When any Natural Features are proposed to be removed or disturbed drawings and descriptions of at least two alternative plans that were prepared and considered but are not proposed

which demonstrate and justify that the proposed Development limits the disturbance or removal of Natural Features on and adjacent to the Site to the minimum necessary to reasonably accomplish the permitted use. Alternative Analysis provided on sheet 11 of the plans. h. Proposed mitigation measures: When any Natural Features are proposed to be removed or disturbed.

proposed mitigation measures must be provided including: Two trees provided onsite due to limited space. The petitioner will provide in lieu payment to City tree fund Written description of the mitigation program, identifying the type and appropriate quantity (i.e. basal area, square feet, caliper inches) of Natural Features removed or disturbed and the appropriate quantity of the mitigation proposed. See Sheet 8

k. Location of proposed mitigation plantings. See Sheet 8. I. Chart listing the proposed mitigation plantings, including botanical and common names, caliper sizes, root

m. Timing schedule for implementation of mitigation measures. See Sheet 8. n. Notation and description of any proposed alternative mitigation measures. N/A 5. Natural Features Overlay Plan – A drawing including the dimensional layout and the existing Natural Features on

6. Landscape Plan - Drawings and written descriptions of proposed landscaping, screening and buffers demonstrating compliance with applicable Development standards such as interior landscaping of Vehicular Use Areas, Right-of-Way screening, conflicting land use buffers, and Natural Features mitigation in order to determine compliance with applicable Development standards must be provided on the plans, including the following a. Location, size and species of existing trees and vegetation, and Natural Features. See Existing

b. Location of light poles, refuse containers and enclosures, mechanical equipment and hydrants. See Dimensional Site Plan, Landscape Plan, and Architectural Plans. c. Limits of Vehicular Use Area and notation of its size in square feet. See Landscape Plan. d. Proposed locations of required landscaping, screening and buffers, street trees and plantings. See Landscape Plan. No buffer or screening is required. Proposed street trees are shown on the plan.

e. Table identifying Vehicular Use Area, interior landscape islands, Right-of-Way screening, conflicting land requirements. Exterior parking is 6,600 square feet. Interior landscape is provided. f. Proposed plant list, including caliper sizes, root type, height of material, botanical and common name, type and amount of mulch, ground cover and grasses. See Landscape Plan.

 Notation of requested modifications if any. N/A. h. Planting and staking details in accordance with the standards established by the PSA Administrator. See i. Specification for treatment of compacted soil on the entire Site. See Landscape Plan, Landscape Notes, j. Specification for planting media in landscape areas. See Landscape Plan, Landscape Notes, number 12. k. Irrigation plan or water outlets (hose bibs) See Landscape Plan, Landscape Notes, number 1. See also Architectural Plans. I. Landscape maintenance program, including a statement that all diseased, damaged, or dead material shall

be replaced in accordance with this Code by the end of the following planting season as a continuing obligation for the duration of the site plan. See Landscape Plan, Landscape Notes, number 2. m. Identification of snow storage areas, including a statement that snow shall not be pushed onto interior landscape islands unless designed for snow storage. Indicated on sheet 8. n. Berms, retaining walls, screen walls, fences, tree wells to preserve existing trees, culverts to maintain

natural drainage patterns, or any other construction details necessary to resolve specific Site conditions. See Architectural Plans. 7. Utility Plan – Drawings and written descriptions of the existing and proposed public utilities serving the Site must

be provided on the plans, including the following:

a. Location and size of existing and proposed public water, sanitary sewer and storm sewer mains and leads. Note invert elevations of storm and sanitary mains. See Existing Conditions and Survey Plan, and b. Location of existing and proposed fire hydrants. Indicate a 250-foot or 350-foot radius, as appropriate for the type of proposed Development, around each hydrant. Show and dimension hose lay to any external

portion of a Structure via an approved fire route from any hydrant or combination of hydrants. Location of fire department connections (FDC) to Buildings. Dimension distance of the hose lay from the FDC to the nearest hydrant via an approved fire route (provide dimension following an actual hose laying route). Location of Knox Box, if applicable. Include a separate Fire Protection and Access Plan sheet if necessary for clarity. See Existing Conditions and Survey Plan, Utility Plan, and Fire Protection Plan. c. Location of existing Public Utility easements, including liber and page number. N/A.

d. Location and dimension of proposed Public Easements. Notation that legal descriptions of proposed easements will be provided with construction drawings and engineering plan submittals as required. N/A. e. Sanitary sewer flow mitigation calculations. See Utility Plan. f. Location and notation of firewalls within existing or proposed Buildings, or notation that none are existing or ${\it proposed}. \textbf{ There are no firewalls in the proposed building. The building is fully fire suppressed.}$

Grading and Soil Erosion Control and Storm Water Management Plan - Drawings and written descriptions demonstrating compliance with the applicable Development standards for Grading and soil Erosion controls must be provided on the plans, including the following a. Vicinity map showing location of Site and all adjacent properties within 500 feet of the Site boundaries showing relationship to any Watercourse. See Vicinity Map on the Cover Sheet. There are no

rcourses within 500 feet of the Site. b. Soil investigation report, survey or profile of data regarding the nature, soil type, distribution, erodibility, and supporting ability of existing soils or rock on the Site in accordance with the United States Department of Agriculture soil survey standards. Soils Report has been submitted separately. One soil boring has been performed for purposes of infiltration capability. The soil boring logs is shown on sheet 13.

c. Existing and proposed topography at a maximum of two-foot contour intervals, elevations or similar slope

descriptions, extending at least 50 feet beyond Site boundary. See Existing Conditions and Survey Plan d. Location of any existing Structure or Natural Feature on the Site and on land extending at least 50 feet beyond the Site boundary lines. See Existing Conditions and Survey Plan and Grading Plan. e. Location of proposed Structures or Development on the Site including physical limits of each proposed Earth Change and all proposed temporary and permanent soil Erosion and Sedimentation Control

Measures. See Existing Conditions and Survey Plan, Grading Plan and Soil Erosion Control Plan. f. Plans, section and construction -quality details of all soil Erosion and Sedimentation Control Measures existing and proposed on-site drainage and dewatering facilities, retaining walls, cribbing, planting, anti-Erosion devices or other protective devices to be constructed in connection with, or as part of, the proposed work. See Soil Erosion Control Plan details. Dewatering of the site is not required. Estimated total cost of the required controls during construction, including dust emission control. See Soil

h. Estimated total cost of protecting all exposed oil surfaces from Erosion should construction discontinue. See Soil Erosion Control Plan, Soil Erosion Control Notes, number 12. i. Estimate of the quantity of excavation and Fill involved. See Soil Erosion Control Plan, Soil Erosion Control Notes, number 14.

Erosion Control Plan, Soil Erosion Control Notes, number 11.

j. Amount of impervious area existing and proposed, and square footage of impervious area reconfigured to accommodate new improvements. Existing: 39,825 sf / 71.7%; proposed: 44,952 sf / 81.0%. If a Storm Water Management System is required, computations and design of the Storm Water Management System, such as: See Storm Water Management Calculations for the proposed detention chamber.

i) Calculations used to derive the run-off coefficients. See Basin Storm Water Calculations, W1.

; ii) Map showing the drainage area and land tributary to the Site and estimated runoff of the area served by any drain. See Stormwater Management Plan.
iii) Required storage volume calculations, including first flush, bankfull, and 100-year storm events. See Basin Storm Water Calculations, W2-W13. iv) Calculations for the provided/proposed storage facility. See Basin Storm Water Calculations

Detention Outlet Calculations. v) Required and proposed release rate calculations. See Basin Storm Water Calculations, Detention Outlet Calculations.

vi) A plan for the continued maintenance of the permanent Storm Water Management System. See Soil Erosion Control Plan, Storm Water Management System Permanent Maintenance Plan,

provided if required. viii) If an alternative method of storm water detention is proposed, a written description of the alternative method of storm water detention and a written explanation as to why the proposed alternative conforms to the Development standards of this Code N/A. I. Timing and construction sequence of each proposed Earth Change, including: installation of temporary and

permanent soil Erosion and Sedimentation Control Measures, striping and Clearing, rough Grading, installation and Stabilization of Storm Water Management Systems, construction of utilities, roads, infrastructure, and Buildings, final Grading and landscaping, and removal of temporary soil Erosion and Sedimentation Control Measures; identify all proposed phasing consistent with the approved site plan or final preliminary plat. See Soil Erosion Control Plan: Construction Sequence. (A Gannt chart has also been provided. m. A program proposal for the continued maintenance of all permanent soil Erosion and Sedimentation

Control Measures that remain after Project Completion, including: designation of the person or party responsible for the maintenance: maintenance responsibilities shall become part of any sales or exchange agreement for the land on which the permanent soil Erosion and Sedimentation Control Measures are located. See Soil Erosion Control Plan, Maintenance Program for Soil Erosion Controls. n. Other information or data as may be required to demonstrate compliance, such as a soil Erosion control statement including: N/A.

i) Consideration of alternative actions with evaluation of each. N/A. ii) Description of probable adverse environmental effects that cannot be avoided. N/A.

iii) Identification of any negative impact to Natural Features, including Woody Plants. N/A. iv) Analysis of primary and secondary consequences of short-term uses of the environment in relation to the maintenance and enhancement of long-term productivity. Remedial, protective and mitigation measures are to be developed for any environmentally detrimental aspect N/A v) If determined necessary by the Code Official, a hydrological study may be required where the earing, Grading, or addition of Impervious Surface is proposed within a floodplain not regulated by the MDEQ or unmapped flood prone areas or any lake, pond, Watercourse, or Wetlands. The study shall follow the format used by the MDEQ for hydraulic reports and shall demonstrate that

the proposed activity complies with the review standards of this Code. N/A. 9. Massing and Architectural Plans - Drawings and written descriptions of the massing, architectural design and details, and facade materials of proposed Buildings must be provided on the plans, including: a. Dimensioned floor plans of each building Floor identifying areas excluded from Floor Area and excluded from FAR calculations. See Architectural Plans. b. Vertical sections through the Site showing existing and proposed elevations. See Architectural Plans

c. Dimensioned architectural design and details with labeled materials. See Architectural Plans. d. Perspective renderings of the proposed Development. See Architectural Plans 10. Photometric Plan – Drawings and written descriptions of proposed lighting demonstrating compliance with the applicable Development standards, including: Provided.

locations are shown on the Dimensional Site Plan, Utility Plan and Landscape Plan. b. Photometric diagram showing predicted maintained lighting levels of the proposed lighting fixtures. 11. Traffic Impact Analysis – For proposed Developments that will generate more than three vehicle trips per unit per

peak hour or 50 vehicle trips per peak hour, a traffic impact traffic impact analysis must be provided including the

a. Location, type and details of proposed lighting fixtures. Relocated/replaced streetscape lightpole

a. Existing traffic volumes passing on all streets abutting the proposed Development during the peak hour. Traffic from other new and proposed Developments in the area should be considered.

b. Existing peak hour turning movements of vehicular traffic at all public street intersections within 200 feet of the proposed Development, or those intersections that may be impacted by the proposed Development. c. Projected peak our generation rate and peak hours of generation for the proposed Development. I. Projected peak hour traffic movements as a result of the establishment of the proposed facility.

e. A capacity analysis for impacted intersections. f. A statement of the total impact the projected generation will have on the existing level of service as determined and certified by a registered engineer. g. A sketch plan showing all existing Driveways to public streets within 200 feet of the proposed Developmen

and all on-street parking or loading areas. h. Proposed Site access Driveways with a determination if a deceleration lane or taper is necessary based on current City warrant analysis standards, a determination if a left-turn by-pass lane is necessary based on a warrant analysis, and a sight distance study at the Site access Driveway. i. A pedestrian circulation plan showing all possible points of conflict between motorized traffic and

pedestrian/bicycle traffic on public streets and sidewalks within 200 feet of the proposed Development, or those intersections that may be impacted by the proposed Development. i. A gap study for pedestrian or vehicular traffic may be required at non-signalized locations that may be impacted by the proposed Development. The traffic and/or parking impact analysis shall be reviewed by the Department of Transportation for completeness and accuracy. The analysis shall include a determination of the service volume and capacity of adjacent streets including the traffic from the new development. The methodology to be employed in determining street capacities shall conform to the 1985 edition of the Highway Capacity Manual, Special Report Number 209, or the latest revision thereof. Proposals that will contribute traffic to streets or intersections that are or will be as a result of this proposal at a level of Service D. F. or F as defined in the Highway Capacity Manual may be denied by Commission

and Council until such time as necessary street or traffic improvements are scheduled for construction.

OWNER/APPLICANT

1642 N. MIKWAUKFF AVF. CHICAGO, IL 60647 ANDREW SAVOY

CORE SPACES, LLC

ENGINEER/SURVEYOR/LANDSCAPE ARCH.

MIDWESTERN CONSULTING, LLC 3815 PLAZA DR. ANN ARBOR, MI 48108 CONTACT: SCOTT BETZOLDT, PE 734-995-0200

ARCHITECT

DIR GROUP 333 WEST WACKER DRIVE, SUITE 850

CHICAGO, IL 60606 CONTACT: NATHAN CASTEEL

312-382-9980

J. BRADLEY MOORE & ASSOCIATES ARCHITECTS 4844 JACKSON ROAD, SUITE 150 ANN ARBOR, MI 48103

CONTACT: BRAD MOORE 734-930-1500

DEVELOPMENT SUMMARY AND COMPARISON CHART

	C1A/R Permitted/Required	Comparison	Proposed
Site Area:	No Minimum	1.27 ac / 55,507 sf	1.27 ac / 55,507 ac
Lot Width	No Minimum	131.92 ft.	332.28 ft.
Zoning:	C1A/R	D1	PUD
Land Use:	Campus Bus. Resid. Dist.	Apartments/Parking	Apartments/Parking
Building Coverage Footprint	N/A	Up to 55,507 sf	32,041 sf
Floor Area:	N/A	221,284 sf (400%)	441,096 sf
Basement Parking:	N/A	N/A	36,858 sf
Floor Area Ratio:	Max. 300%	400%, 900% w/premiums	795%
Building Units	11 Structures/Units Unknown	N/A	387
Max Density (Units/Acre)	None	N/A	301
Min. Lot Area (sf) per Unit	2,175	N/A	145 sf
Min. Open Space %	None	N/A	13,999 sf (25.2%) Provided
Min. Actice Open Space	None	N/A	4,545 sf (8.2%)
Building Height:	None	180'	116' - 180'
Unit Types/No.s:		See architectural plans	See architectural plans
Vehicular Parking*:	None Req'd		
Total Vehicular Parking		None	78 incl. 4 BF (garage)
			16 EV-I + 62 EV-C
			1 BF + 3 rideshare (lot)
Bicycle Parking**:	1 space/5 units	1 space/5 units	329 CL. A; 12 CL. C
Total Required		NAU.	
Setbacks:	Front: 10' Min.	Front Min. 0', Max. 1'	State St 5.0'
		30' Abutting Res. zoning	Packard - 5.25'
		30' Abutting Res. zoning	Rear - South- 10.19'
			Side - North - 5.07'
Impervious Surface		N/A	44,952 sf, 81.0%





SHEET NUMBER SHEET TITLE COVER SHEET

EXISTING CONDITIONS AND ALTA SURVEY PLAN

REMOVAL PLAN

DIMENSIONAL SITE PLAN

GRADING AND SOIL EROSION CONTROL PLAN

UTILITY PLAN STORM WATER MANAGEMENT PLAN

LANDSCAPE PLAN

LANDSCAPE NOTES AND DETAILS

FIRE PROTECTION AND SOLID WASTE MANAGEMENT PLAN

ALTERNATIVES ANALYSIS

SITE ANALYSIS NATURAL FEATURES AND OVERLAY PLAN

MISCELLANEOUS DETAILS PHOTOMETRIC PLAN

1. All sidewalks within the City shall be kept and maintained in good repair by the owner of the land adjacent to and abutting upon the same. Prior to the issuance of the final Certificate of Occupancy for this site, all existing sidewalks in need of repair must be repaired in accordance with City standards.

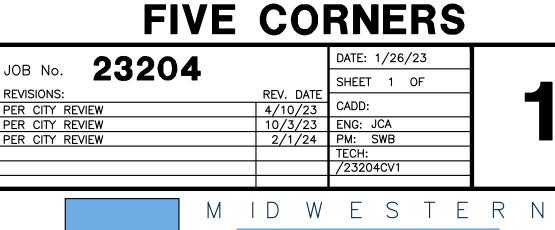
2. All work within the City of Ann Arbor covered by these plans shall be performed in complete conformance with the current City of Ann Arbor Public Services Department Standard Specifications and Details.

3. The omission of any current standard detail does not relieve the contractor from this requirement. The work shall be performed in complete conformance with the current public services standard specifications and details

4. Sidewalks constructed in the public right-of-way and/or public paths shall meet all requirements and guidelines as set forth in the Accessibility Guidelines for Pedestrian Facilities in the Public Right-of-Way published August 8, 2023. Note that many of the details concerning grades will need to be determined during the site plan stage in order to gain grading plan approval.

The owner agrees to use only landscape care products that have no phosphates. 6. State Street/Hoover Ave traffic signal to be reconstructed to a 4 way intersection to

accommodate new driveway with cross walk. 7. A PUD site plan is being sought due to deviations from the area, height and placement requirements and landscape modification.

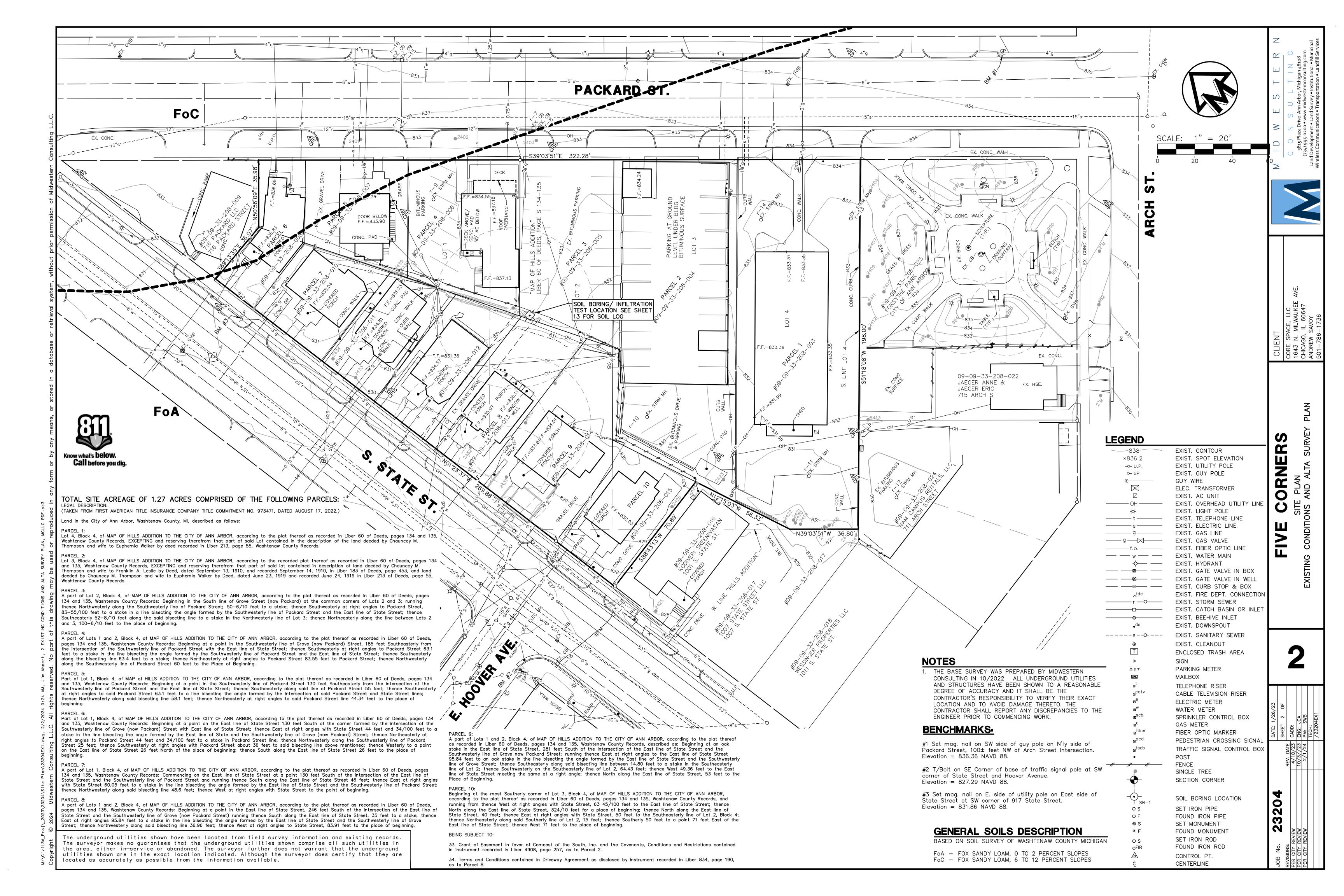


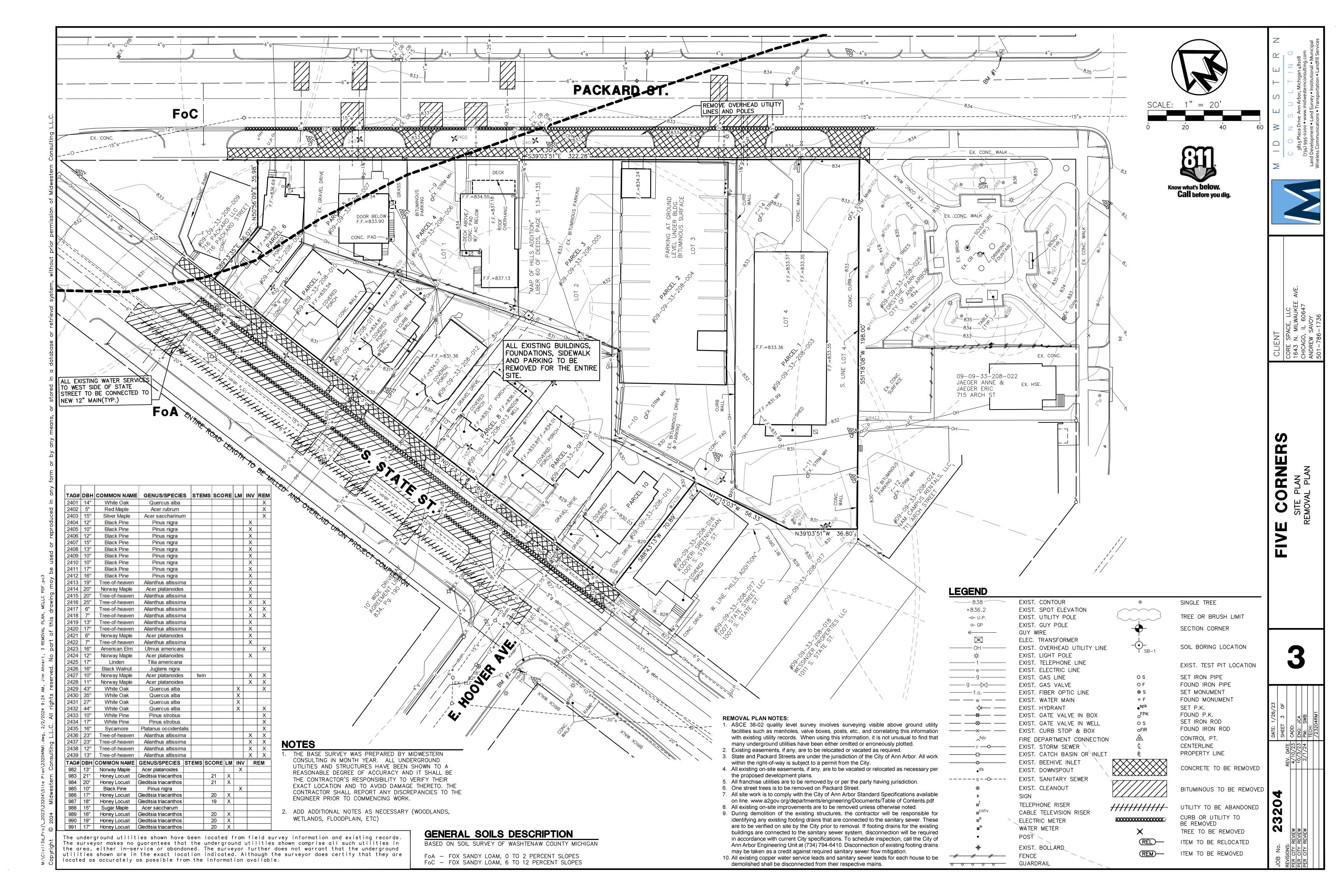


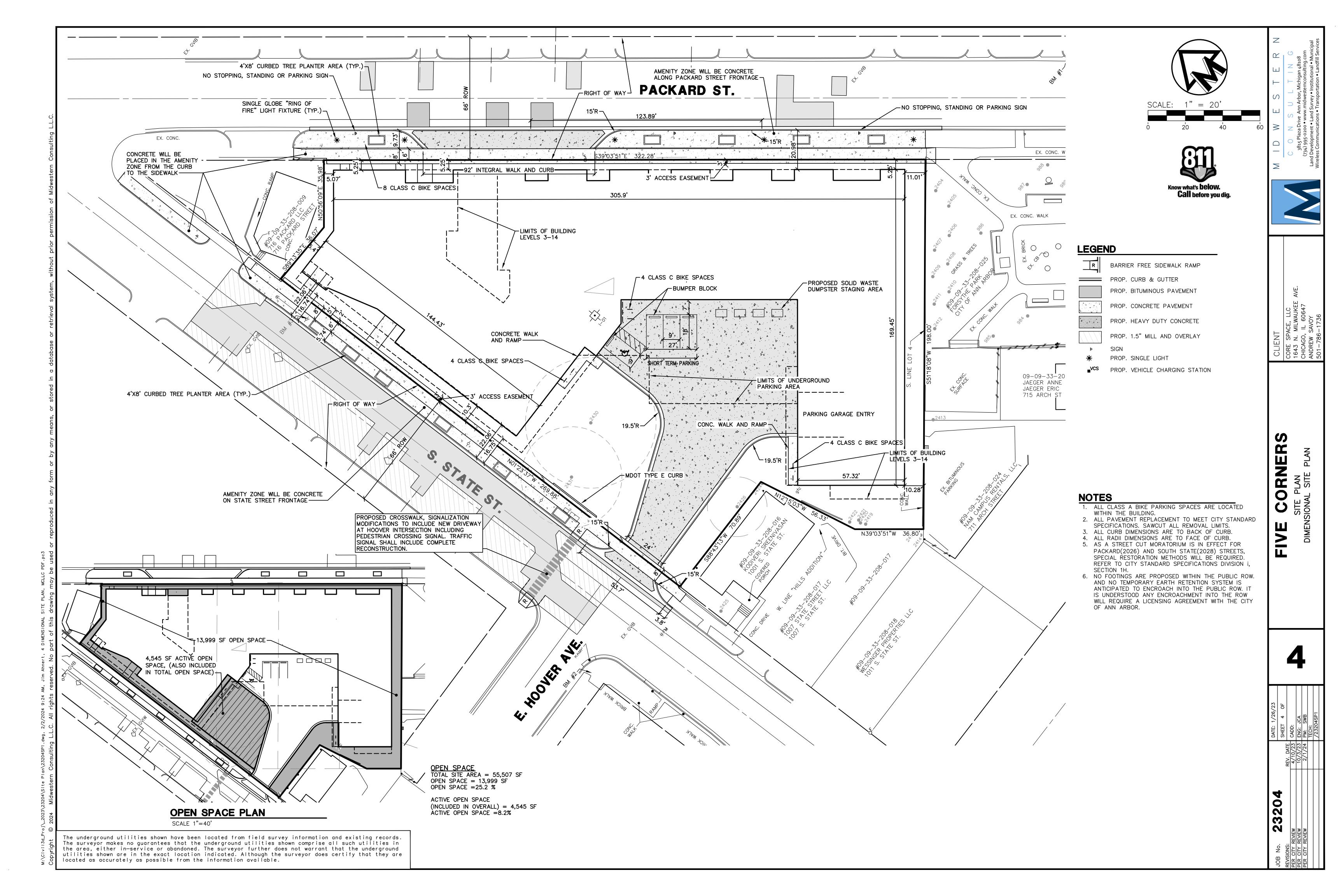
C O N S U L T IN G 3815 Plaza Drive Ann Arbor, Michigan 48108 (734) 995-0200 • www.midwesternconsulting.com Land Development • Land Survey • Institutional • Municipal Wireless Communications • Transportation • Landfill Services

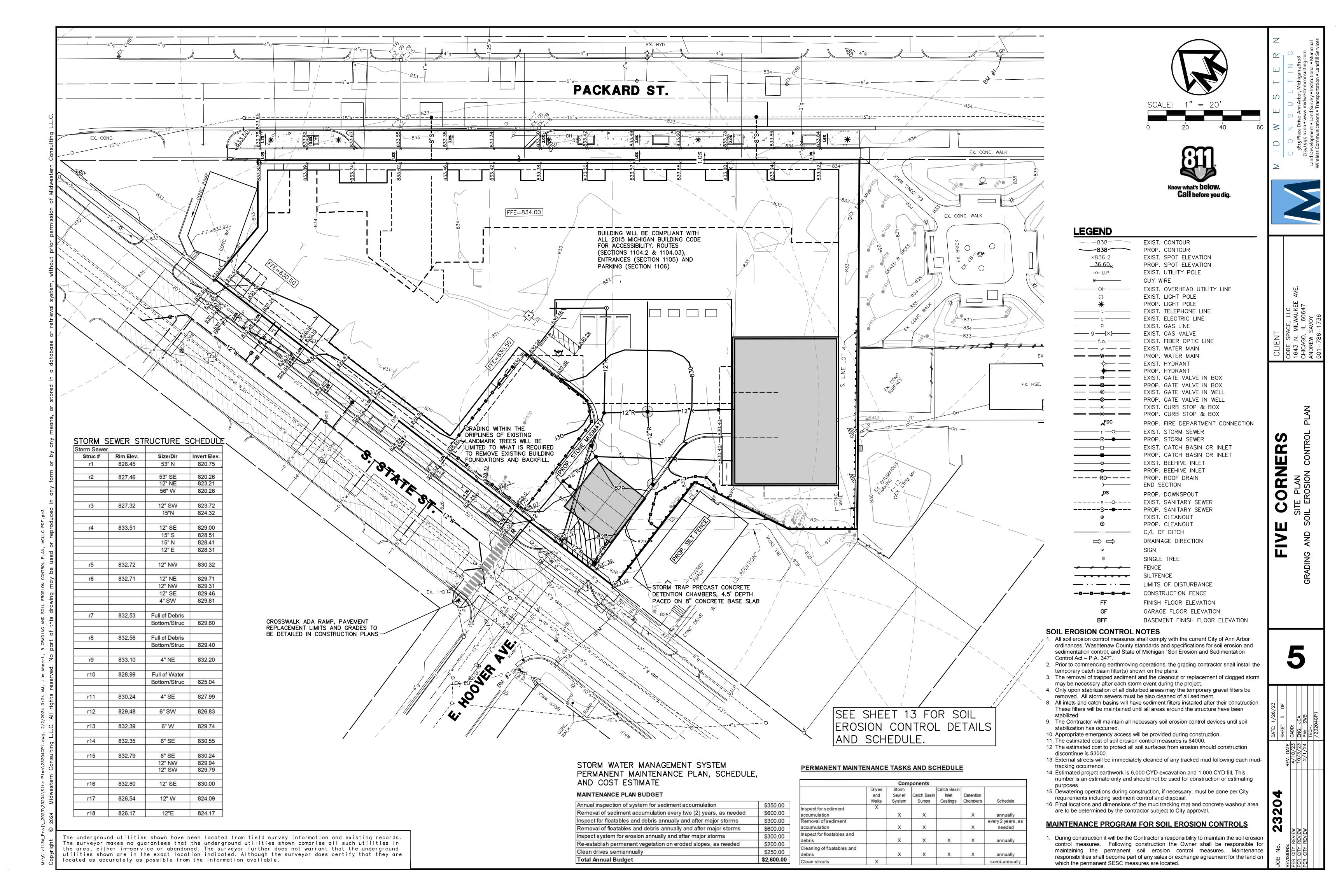
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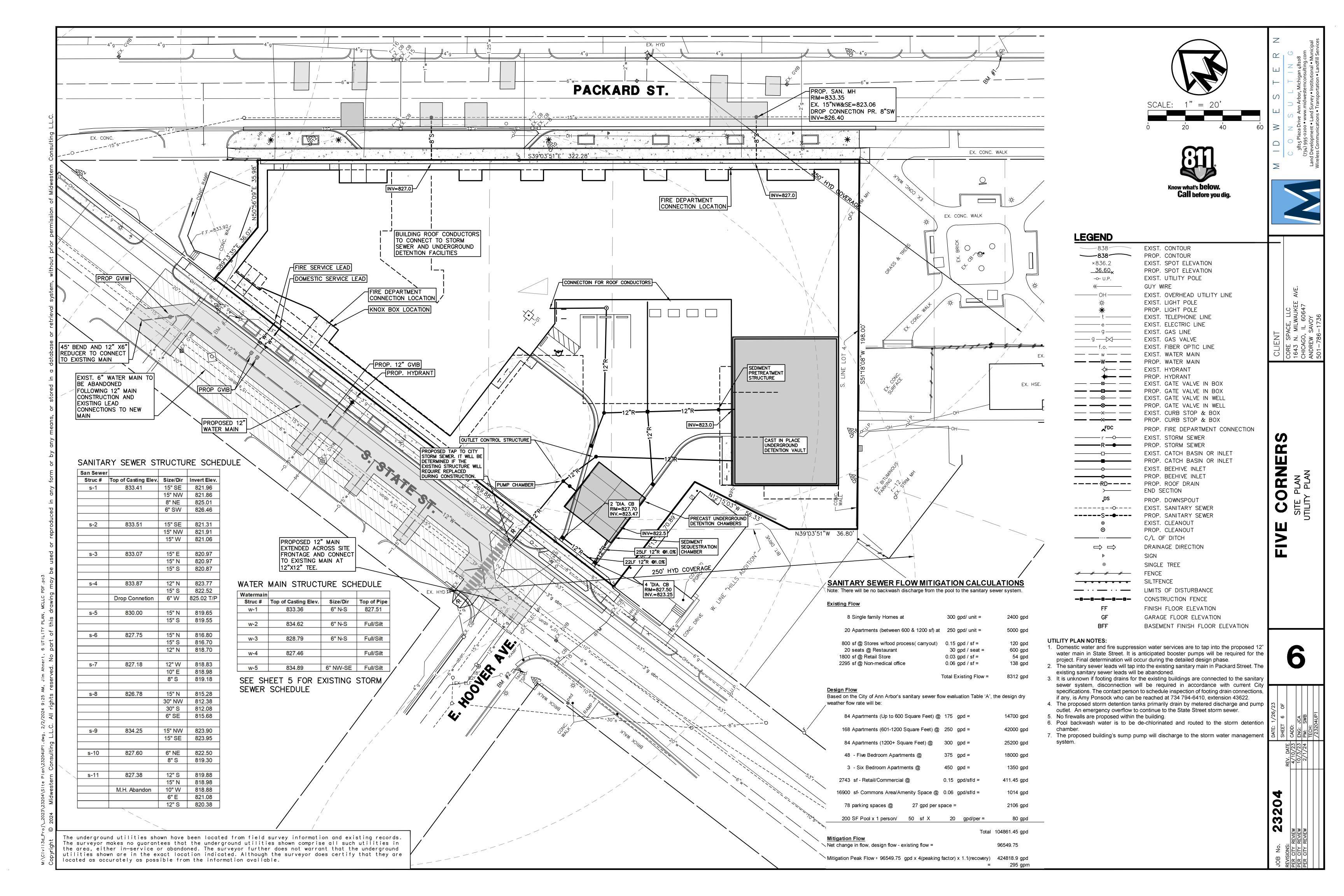
The underground utilities shown have been located from field survey information and existing records. The surveyor makes no quarantees that the underground utilities shown comprise all such utilities in the area, either in-service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated. Although the surveyor does certify that they are located as accurately as possible from the information available.

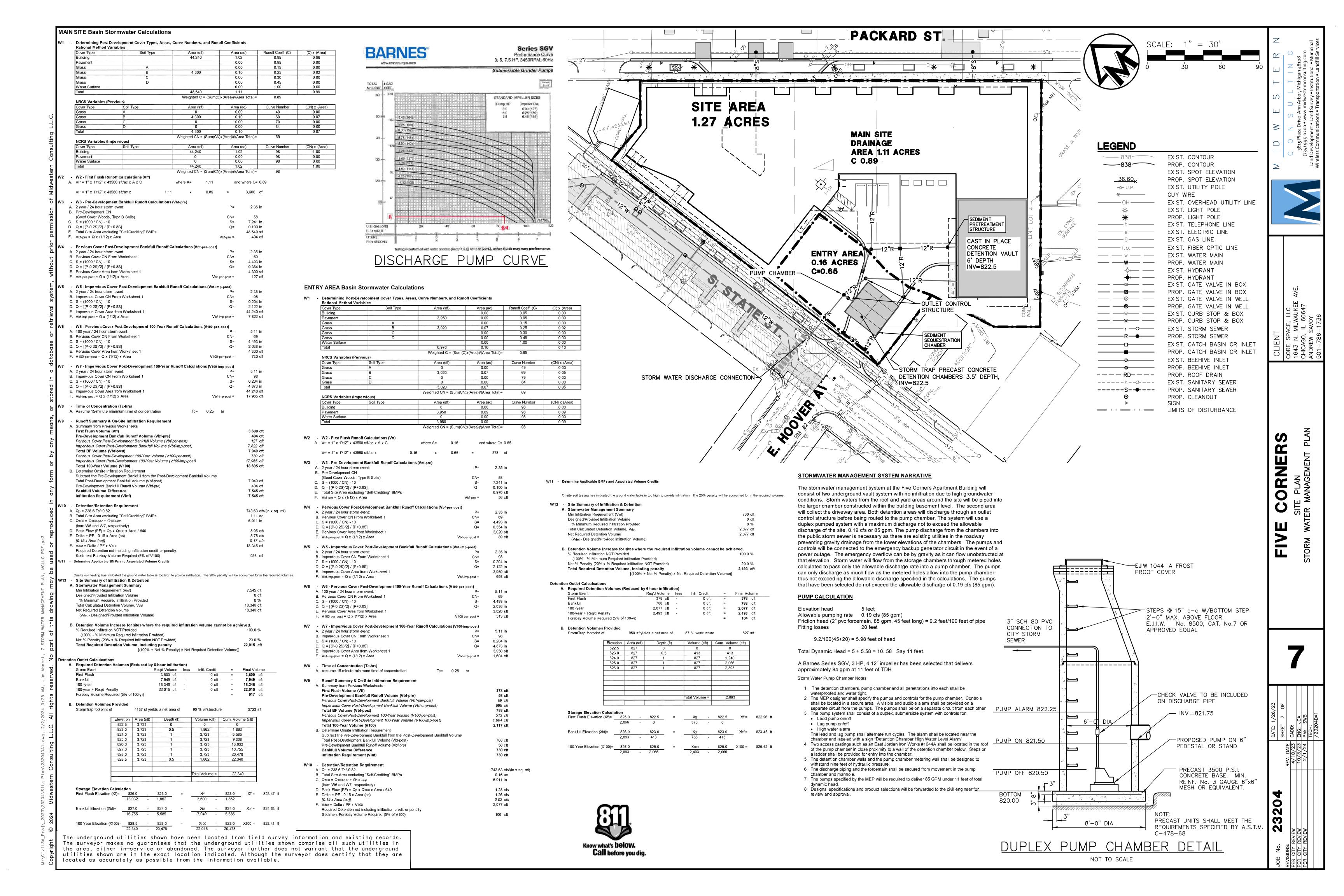


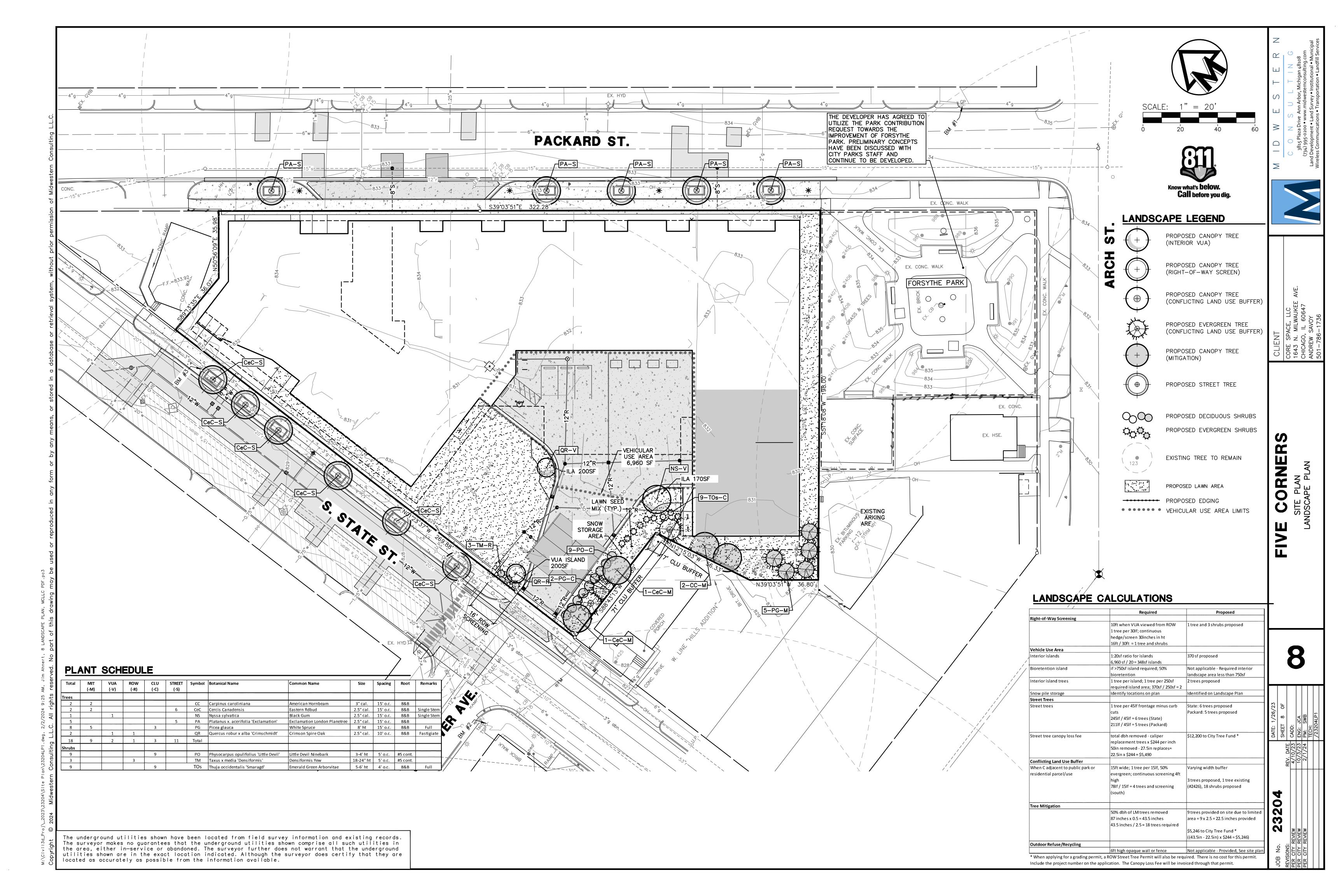












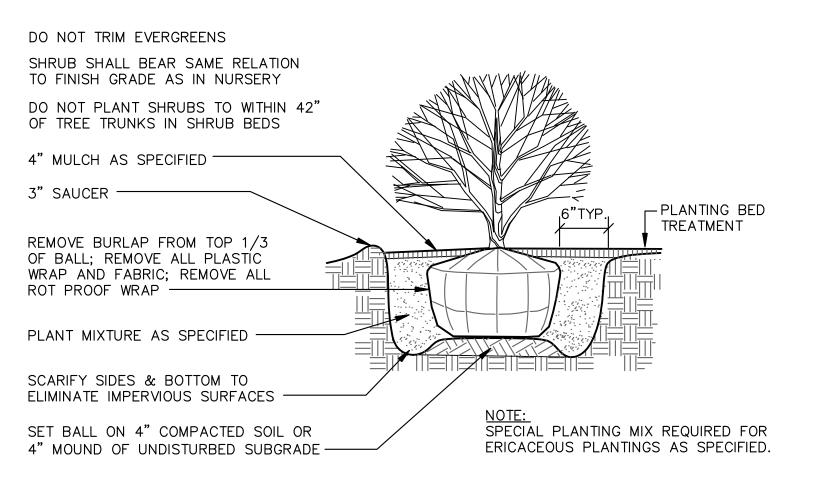
EVERGREEN TREE PLANTING DETAIL NOT TO SCALE

ROOT BALL

NOTE: MATERIALS TO BE FLUSH WITH THE TOP OF EDGING NON-WOVEN LANDSCAPE FABRIC -PROPOSED PLANTING BED — EXISTING LAWN — PROPOSED 1/8" THICK STEEL EDGING W/ 12-1/2" STAKES 4' ON CENTER

3 SECTIONS OF 2 PLY REINFORCED HOSE PER -GUYING WIRE PRUNE 20% OF BRANCHES RETAINING NORMAL PLANT SHAPE. TREE SHALL BEAR SAME RELATION TO FINISH GRADE AS IN NURSERY. DO NOT CUT LEADER -2 PLY REINFORCED RUBBER HOSE POSITIONED DIRECTLY ABOVE FIRST BRANCH-12-14 GA. GALV. DOUBLE STRAND TWISTED GUYING WIRE, 3 GUYS PER TREE, 120° APART — TREE WRAP-4" MULCH AS SPECIFIED -REMOVE BURLAP FROM TOP 1/3 OF BALL; REMOVE ←GUY WIRE ALL PLASTIC WRAP AND FLAG FABRIC; REMOVE ALL ROT PROOF WRAP-12"TYP. 3" SAUCER — 2"x 2"X 30" GUYING STAKE-SCARIFY SIDES AND BOTTOM TO ELIMINATE IMPERVIOUS SURFACES; BACKFILL WITH PLANTING MIXTURE AS SPECIFIED ---SET BALL ON 4" COMPACTED SOIL OR 4" MOUND OF UNDISTURBED SUBGRADE-

DECIDUOUS TREE - PLANTING DETAIL



SHRUB PLANTING DETAIL

PRUNE 20% OF BRANCHES AND FOLIAGE RETAINING NORMAL PLANT SHAPE DO NOT TRIM EVERGREENS SHRUB SHALL BEAR SAME RELATION TO FINISH GRADE AS IN NURSERY DO NOT PLANT SHRUBS TO WITHIN 42" OF TREE TRUNKS IN SHRUB BEDS 4" MULCH AS SPECIFIED -3" SAUCER — PLANTING BED REMOVE BURLAP FROM TOP TREATMENT 1/3 OF BALL; REMOVE ALL PLASTIC WRAP AND FABRIC; REMOVE ALL ROT PROOF PLANT MIXTURE AS SPECIFIED -SCARIFY SIDES & BOTTOM TO ELIMINATE IMPERVIOUS SURFACES — SPECIAL PLANTING MIX REQUIRED FOR SET BALL ON 4" COMPACTED SOIL OR ERICACEOUS PLANTINGS AS SPECIFIED. 4" MOUND OF UNDISTURBED SUBGRADE -

> EVERGREEN SHRUB PLANTING DETAIL NOT TO SCALE

LANDSCAPE NOTES

- 1. For any plant quantity discrepancies between the plan view and the plant schedules, the plant schedule shall take precedence.
- 2. Plant materials shall be selected and installed in accordance with standards established by the City of Ann
- 3. In-ground automatic irrigation shall be provided for all landscaped planting or water outlets shall be
- provided within 150 feet of all required plantings.
- 4. All diseased, damaged or dead material shown on the site plan as proposed plantings shall be replaced by
- 5. Restore disturbed areas with a minimum of four (4) inches of topsoil and then seed/ fertilize/mulch. 6. All disturbed areas not to be seeded with seed mixes identified on the Landscape Plan shall be lawn areas. Fertilizer for the initial installation of lawns shall provide not less than one (1) pound of actual nitrogen per 1,000 sq ft of lawn area and shall contain not less than two percent (2%) potassium and four percent (4%)
 - phosphoric acid. Lawn (turfgrass) seed mix shall consist of:

the end of the following growing season.

- 15% Rugby Kentucky Bluegrass
- 10% Park Kentucky Bluegrass 40% Ruby Creeping Red Fescue
- 15% Pennifine Perennial Ryegrass
- 20% Scaldis Hard Fescue
- Seed shall be applied at a rate of five pounds (5 lbs) per 1000 sq ft. Mulch within 24 hours with two (2) tons of straw per acre, or 71 bales of excelsior mulch per acre. Anchor straw mulch with spray coating of adhesive material applied at the rate of 150 gals. / acre.
- 7. After the first growing season, only fertilizers that contain NO phosphorus shall be used on the site.
- 8. All seeded areas with slopes less than 1:3 (one vertical foot for every 3 horizontal feet) shall be mulched with straw mulch at the rate of two (2) bales per 1,000 square feet. All seeded areas with slopes greater than 1:3 shall be seeded and biodegradable erosion control blanket North American Green SC150, or equivalent, shall be applied with biodegradable stakes.
- 9. Deciduous plants shall be planted between March 1 and May 15 and from October 1 until the prepared soil becomes frozen. Evergreen plants shall be planted between March 1 and June 1 and from August 15 to September 15.
- 10. All planting beds are to receive four (4) inches of shredded hardwood bark mulch.
- 11. All trees to be located a minimum of 10 feet from public utilities. 12. All single trunk, deciduous trees shall have a straight and a symmetrical crown with a central leader. One sided trees or those with thin or open crowns shall not be accepted.
- 13. All evergreen trees shall be branched fully to the ground, symmetrical in shape and have not been sheared in the last three (3) growing seasons.
- 14. All compacted subgrade soils in proposed landscape areas shall be tilled to a minimum 12-inch depth prior
- to placement of topsoil, geotextile fabric, or other planting media as specified. 15. Proposed trees will be planted a minimum of 15 feet apart.
- 16. Planting Soil: Existing, in-place or stockpiled topsoil. Supplement with imported topsoil as needed. Verify suitability of existing surface soil to produce viable planting soil. Final approval of soil composition shall be provided by the landscape contractor. Remove stones, roots, plants, sod, clods, clay lumps, pockets of coarse sand, concrete slurry, concrete layers or chunks, cement, plaster, building debris, and other extraneous materials harmful to plant growth. Mix surface soil with the following soil amendments to
- produce planting soil: a. Ratio of Loose Compost to Topsoil by Volume: 1:4.
- b. Weight of Lime per 1000 Sq. Ft.: Amend with lime only on recommendation of soil test to adjust soil
- c. Weight of Sulfur or Aluminum Sulfate per 1,000 Sq. Ft.: Amend with sulfur or aluminum sulfate only on recommendation of soil test to adjust soil pH.
- d. Volume of Sand: Amend with sand only on recommendation of Landscape Architect to adjust soil
- e. Weight of Slow-Release Fertilizer per 1,000 Sq. Ft.: Amend with fertilizer only on recommendation of soil test to adjust soil fertility.
- 17. Snow storage areas are located along the edges and corners of parking areas as shown on the plan.
- 18. All species deviations must be approved in writing by the City of Ann Arbor prior to installation.
- 19. The City of Ann Arbor has adopted an ordinance limiting phosphorus in fertilizer. To assist in compliance with the State mandated TMDL for phosphorus within the Middle Huron River basin. Applications of fertilizer beyond the initial topsoil and seeding shall be a fertilizer with no phosphorus.

Maintenance:

- 1. Maintain plantings by pruning, cultivating, watering, weeding, fertilizing, mulching, restoring planting saucers, adjusting and repairing tree-stabilization devices, resetting to proper grades or vertical position, and performing other operations as required to establish healthy, viable plantings. Spray or treat as required to keep trees and shrubs free of insects and disease.
- 2. Fill in as necessary soil subsidence that may occur because of settling or other processes. Replace mulch
- materials damaged or lost in areas of subsidence. 3. Apply treatments as required to keep plant materials, planted areas, and soils free of pests and pathogens

or disease. Use integrated pest management practices whenever possible to minimize the use of pesticides

- and reduce hazards. Treatments include physical controls such as hosing off foliage, mechanical controls such as traps, and biological control agents. 4. Contractor shall warranty all plant material and trees to remain alive and be in healthy, vigorous and like new condition for the specified period from installation to Substantial Completion. The entire Landscaping
- Project, including but not limited to: plants (perennials), trees, shrubs, mulches, shrubs, etc are to be under Warranty for One Year after Substantial Completion date of the Project. At the end of the specified One Year Warranty period the Owner's Representative will inspect plant material for compliance. Contractor shall replace, in accordance with the drawings and specifications, all plants, trees, shrubs, etc or as determined by the Owner's Representative, are in an unhealthy or unsightly condition. Warranty shall not include damage or loss of plants, trees, and shrubs caused by fires, floods, freezing rains, lightning storms, or winds over 75 miles per hour, acts of vandalism or negligence on the part of the owner, or any other incident beyond landscape contractor's control.
- 5. Watering: The contractor shall keep seed moist for optimum plant growth (1" of total water per week, including rainfall) until the grass and/or flowers are four (4) inches high typical.
- 6. Protection from traffic and erosion in newly seeded areas is the responsibility of the contractor. Safety fences and/or silt fence with appropriate signage may be used at the contractor's expense until the grasses and flowers are fully established.
- 7. Erosion shall be repaired by the contractor.
- 8. Turf installations shall meet the following criteria as determined by Owner:
- a. Satisfactory Seeded Turf: At end of maintenance period, a healthy, uniform, close stand of grass has been established, free of weeds and surface irregularities, with coverage exceeding 90 percent over any 10 sq. ft. and bare spots not exceeding 5 by 5 inches.
- b. Satisfactory Sodded Turf: At end of maintenance period, a healthy, well-rooted, even-colored, viable turf
- has been established, free of weeds, open joints, bare areas, and surface irregularities.
- c. Use specified materials to reestablish turf that does not comply with requirements and continue maintenance until turf is satisfactory.

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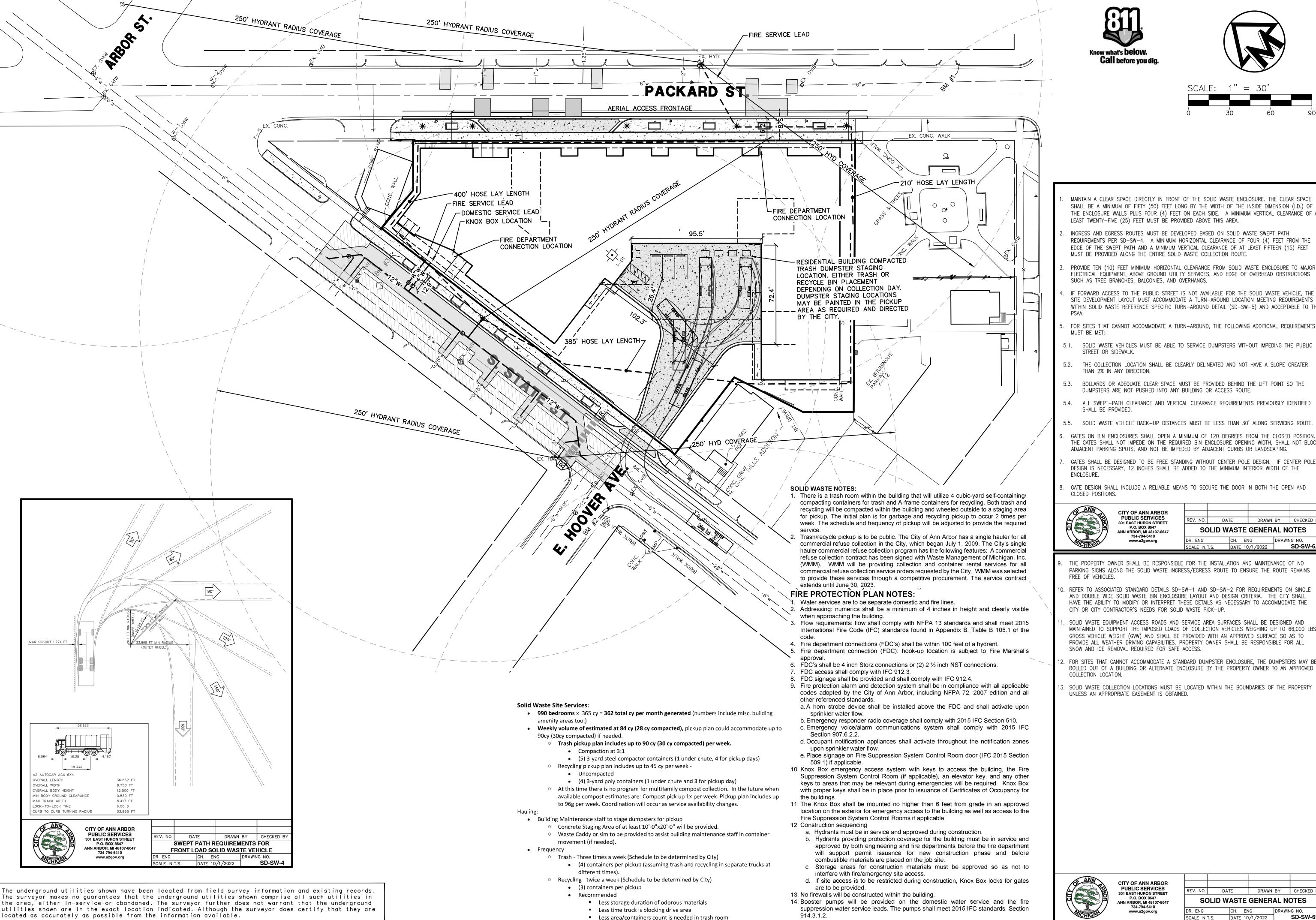
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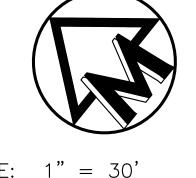
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The underground utilities shown have been located from field survey information and existing records. The surveyor makes no quarantees that the underground utilities shown comprise all such utilities in the area, either in-service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated. Although the surveyor does certify that they are located as accurately as possible from the information available.





MAINTAIN A CLEAR SPACE DIRECTLY IN FRONT OF THE SOLID WASTE ENCLOSURE. THE CLEAR SPACE SHALL BE A MINIMUM OF FIFTY (50) FEET LONG BY THE WIDTH OF THE INSIDE DIMENSION (I.D.) OF THE ENCLOSURE WALLS PLUS FOUR (4) FEET ON EACH SIDE. A MINIMUM VERTICAL CLEARANCE OF AT LEAST TWENTY-FIVE (25) FEET MUST BE PROVIDED ABOVE THIS AREA.

REQUIREMENTS PER SD-SW-4. A MINIMUM HORIZONTAL CLEARANCE OF FOUR (4) FEET FROM THE EDGE OF THE SWEPT PATH AND A MINIMUM VERTICAL CLEARANCE OF AT LEAST FIFTEEN (15) FEET MUST BE PROVIDED ALONG THE ENTIRE SOLID WASTE COLLECTION ROUTE.

ELECTRICAL EQUIPMENT, ABOVE GROUND UTILITY SERVICES, AND EDGE OF OVERHEAD OBSTRUCTIONS

IF FORWARD ACCESS TO THE PUBLIC STREET IS NOT AVAILABLE FOR THE SOLID WASTE VEHICLE. THE SITE DEVELOPMENT LAYOUT MUST ACCOMMODATE A TURN-AROUND LOCATION MEETING REQUIREMENTS WITHIN SOLID WASTE REFERENCE SPECIFIC TURN-AROUND DETAIL (SD-SW-5) AND ACCEPTABLE TO THE

FOR SITES THAT CANNOT ACCOMMODATE A TURN-AROUND, THE FOLLOWING ADDITIONAL REQUIREMENTS

5.1. SOLID WASTE VEHICLES MUST BE ABLE TO SERVICE DUMPSTERS WITHOUT IMPEDING THE PUBLIC

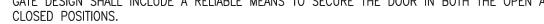
5.2. THE COLLECTION LOCATION SHALL BE CLEARLY DELINEATED AND NOT HAVE A SLOPE GREATER

5.3. BOLLARDS OR ADEQUATE CLEAR SPACE MUST BE PROVIDED BEHIND THE LIFT POINT SO THE DUMPSTERS ARE NOT PUSHED INTO ANY BUILDING OR ACCESS ROUTE.

5.4. ALL SWEPT-PATH CLEARANCE AND VERTICAL CLEARANCE REQUIREMENTS PREVIOUSLY IDENTIFIED

GATES ON BIN ENCLOSURES SHALL OPEN A MINIMUM OF 120 DEGREES FROM THE CLOSED POSITION. THE GATES SHALL NOT IMPEDE ON THE REQUIRED BIN ENCLOSURE OPENING WIDTH. SHALL NOT BLOCK

GATES SHALL BE DESIGNED TO BE FREE STANDING WITHOUT CENTER POLE DESIGN. IF CENTER POLE DESIGN IS NECESSARY, 12 INCHES SHALL BE ADDED TO THE MINIMUM INTERIOR WIDTH OF THE



DATE DRAWN BY CHECKED B **SOLID WASTE GENERAL NOTES** CH. ENG DRAWING NO.

DATE 10/1/2022 SD-SV SD-SW-6A

THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF NO PARKING SIGNS ALONG THE SOLID WASTE INGRESS/EGRESS ROUTE TO ENSURE THE ROUTE REMAINS

O. REFER TO ASSOCIATED STANDARD DETAILS SD-SW-1 AND SD-SW-2 FOR REQUIREMENTS ON SINGLE AND DOUBLE WIDE SOLID WASTE BIN ENCLOSURE LAYOUT AND DESIGN CRITERIA. THE CITY SHALL HAVE THE ABILITY TO MODIFY OR INTERPRET THESE DETAILS AS NECESSARY TO ACCOMMODATE THE

SOLID WASTE EQUIPMENT ACCESS ROADS AND SERVICE AREA SURFACES SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF COLLECTION VEHICLES WEIGHING UP TO 66,000 LBS GROSS VEHICLE WEIGHT (GVW) AND SHALL BE PROVIDED WITH AN APPROVED SURFACE SO AS TO PROVIDE ALL WEATHER DRIVING CAPABILITIES. PROPERTY OWNER SHALL BE RESPONSIBLE FOR ALL

. FOR SITES THAT CANNOT ACCOMMODATE A STANDARD DUMPSTER ENCLOSURE, THE DUMPSTERS MAY BI ROLLED OUT OF A BUILDING OR ALTERNATE ENCLOSURE BY THE PROPERTY OWNER TO AN APPROVED

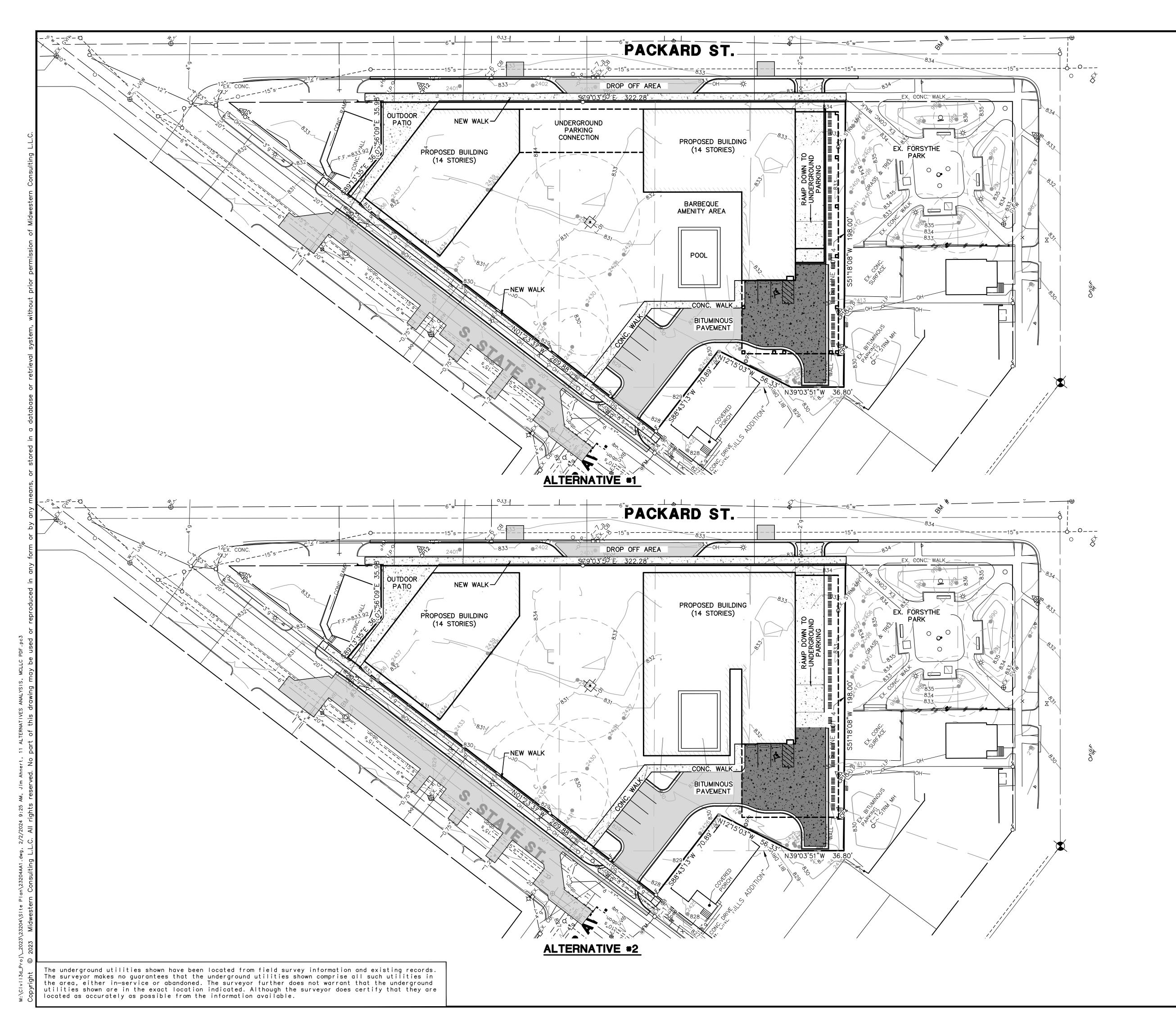
. SOLID WASTE COLLECTION LOCATIONS MUST BE LOCATED WITHIN THE BOUNDARIES OF THE PROPERTY

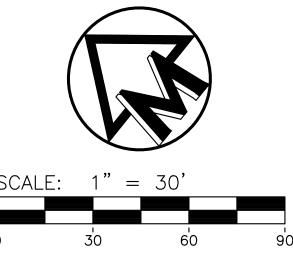
_15. No separate Fire Suppression System Control Room is required.

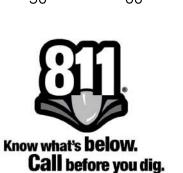
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SCALE N.T.S. DATE 10/1/2022 SD-SW-6B







NOTES

ALTERNATIVE #1

Description: Alternative #1 examined the development potential of the property by Utilizing two different buildings located both north and south of the clustering of landmark trees.

- Building geometry efficiency requires a certain width of a building to allow for a central hallway with units off to both side thus allowing a window to the exterior for units on both sides of the hall. This minimum width is approximately 60'.
- Utilizing the minimum width results in two un-connected buildings fitting on the site. • To get the requisite number of parking spaces, the two building's underground parking areas would need to be connected underground because the north building is not long enough to facilitate a ramp of its own.
- This concept would not allow for the detached two story commercial. • This concept would provide approximately 15-20% fewer units due to inefficient design and use of the land.

- Two un-connected buildings are highly inefficient resulting in lower numbers of units and higher construction and rent costs.
- The underground connection of the two underground parking areas is very expensive and provides no parking benefit resulting in inefficiencies and higher construction and rent costs.
- Employing two buildings would prohibit sharing of certain building systems creating higher construction and rent costs.
- Attempts to recover lost units would result in a higher building heights that would produce more shade on the existing trees.

ALTERNATIVE #2

Description: Alternative #2 examined if it would be feasible to create a second parallel wing of the same width to make up for lost units and elimination of the expensive underground parking connection.

Findings:

- This geometry results in a separation of only 10 feet between what would likely be 16 story buildings.
- This option would move the building 60' closer to the landmark trees. • The smaller north building does not have a footprint large enough to accommodate
- a ramp for underground parking.
- This concept does not provide a meaningful amount of additional useable space for a free standing commercial component.
- The parallel wing would sit over the area where the underground detention lies therefor prohibiting additional parking in that area.
- Creation of this wing would predicate removal of the proposed pool.

- The two parallel wings would be too close to be acceptable by building and fire codes. Making this code compliant would require the removal of units on one side of the hallway of the parallel wing making it less efficient and more costly.
- The presence of the trees precludes running storm sewer from the north building to the underground detention tanks located in the basement of the parallel wing. The north building would need its own detention system. The parallel wing would not be able to add any additional parking due to storm
- water detention tanks located below. • Employing two buildings would prohibit sharing of certain building systems creating higher construction and rent costs.
- Attempts to recover lost units would result in a higher building that would produce
- more shade on the existing trees. • Moving the building closer to the trees would result in higher periods of shade.

COMMENTS ON PROPOSED DESIGN

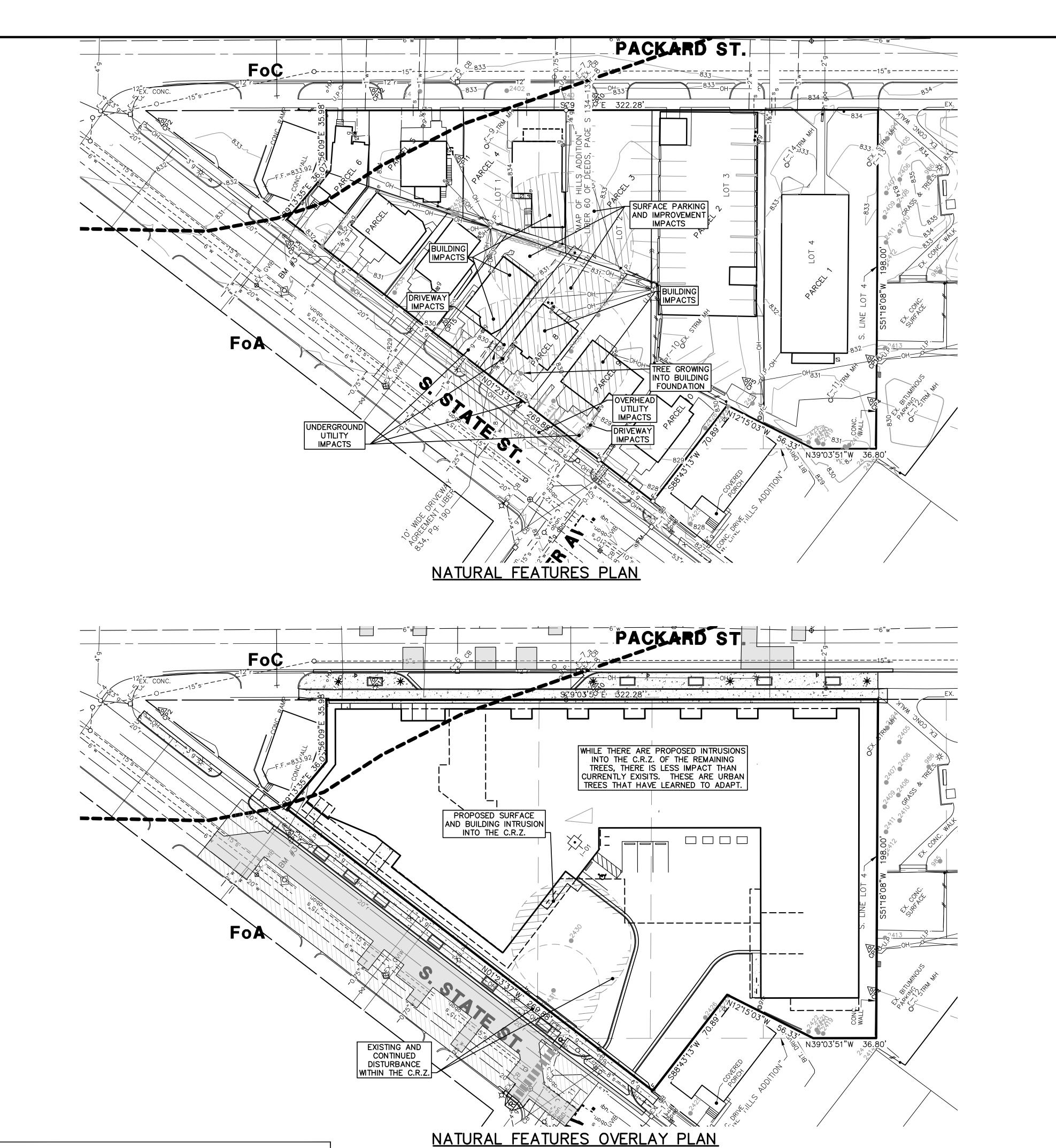
The proposed design recognizes that there are landmark trees being preserved and that there are landmark tree losses due to the proposed design. We feel these design impacts are acceptable in light of the following information.

- The trees to remain are in an urban environment currently and apparently have acclimated to it. Pavement and gravel on this property and the parcel they are located on covers a significant amount of their existing critical root zone. In some cases, pavement exists right to the base of the trees.
- Some of the trees to be removed have grown immediately beside and into the existing foundations and would likely suffer after the disturbance of foundation
- The trees to remain are located a significant distance from the building walls and
- will receive an adequate amount of sunlight.

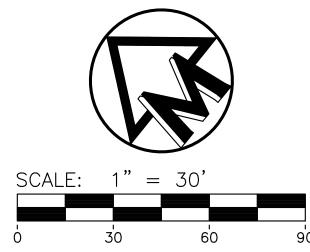
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RE SPACE, LLC 43 N. MILWAUKEE AVE. ICAGO, IL 60647 DREW SAVOY

CORE SPAC 1643 N. N CHICAGO, I ANDREW SA

CORNERS
SITE PLAN

SITE ANA

12

DATE: 1/26/23
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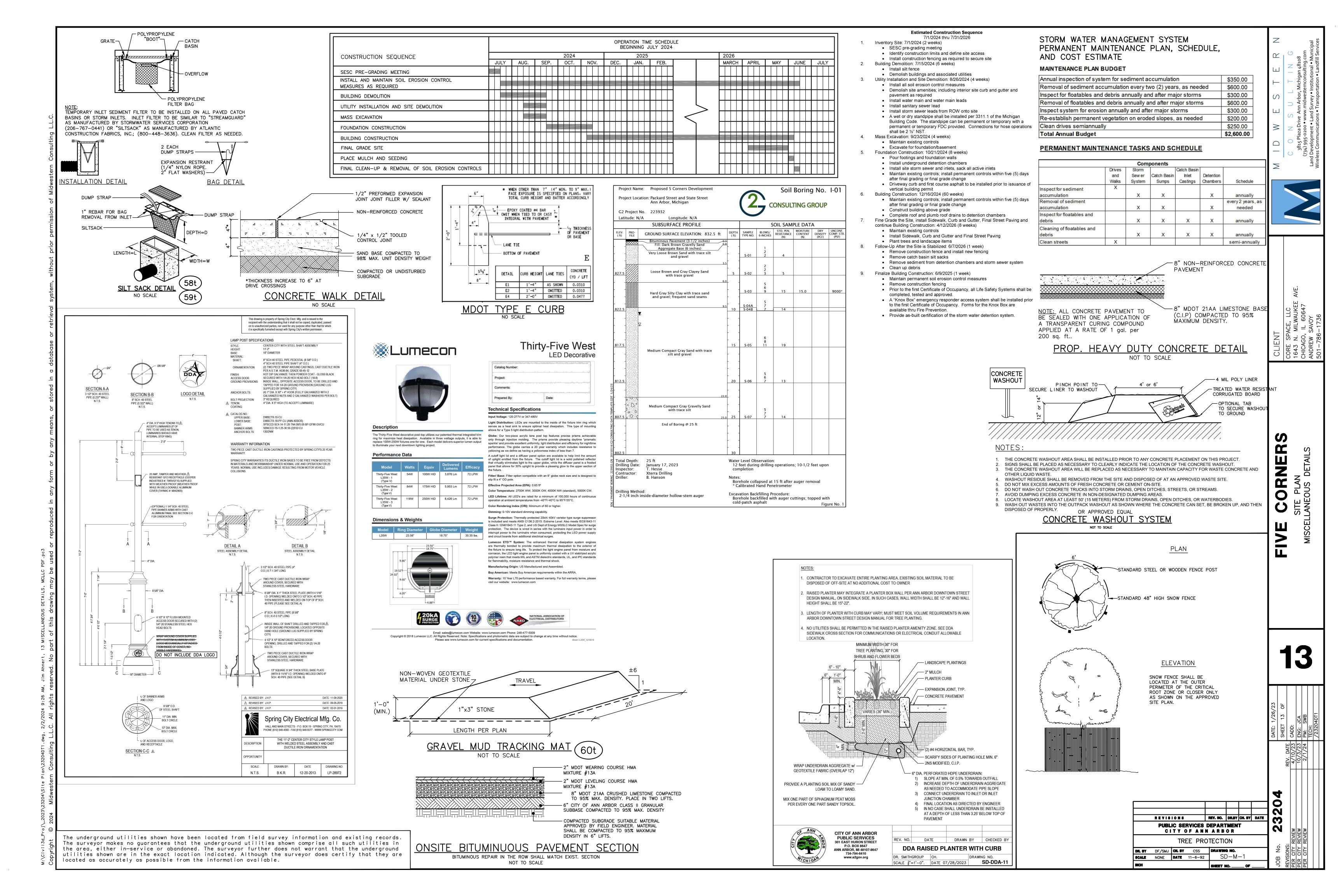
JB No. **23204**VISIONS:
R CITY REVIEW
R CITY REVIEW

Natural Features Inventory and Impact

The site does not contain any 100 year floodplains, steep slopes, watercourses, wetlands or endangered species habitat. The site does contain four landmark trees for which the critical root zones are highly impacted by the existing site structures and foundations, paved surfaces, overhead utility lines, and gravel parking areas. Landmark trees include tree #2429, 43" White Oak, #2430, a 35" White Oak, #2431, a 37" White Oak, and #2432, a 44" White Oak.

The existing trees have been assessed by an arborist and the feeling is that two of the trees will most likely not survive the demolition of the existing site features, buildings and foundations and required grading. Two of the existing trees while also impacted, have greater chances of survival and they are proposed to be saved. These two trees are located an adequate distance away from the proposed building will be afforded an acceptable amount of sunlight.

TAG#	DBH	COMMON NAME	GENUS/SPECIES	STEMS	SCORE	LM	INV	REM	
2401	14"	White Oak	Quercus alba						
2402	5"	Red Maple	Acer rubrum						
2403	15"	Silver Maple	Acer saccharinum					Х	
2404	12"	Red Pine	Pinus resinosa						
2405	10"	Red Pine	Pinus resinosa						
2406	12"	Red Pine	Pinus resinosa						
2407	15"	Red Pine	Pinus resinosa						
2408	13"	Red Pine	Pinus resinosa						
2409	10"	Red Pine	Pinus resinosa						
2410	10"	Red Pine	Pinus resinosa						
2411	17"	Red Pine	Pinus resinosa						
2412	16"	Red Pine	Pinus resinosa						
2413	19"	Tree-of-heaven	Ailanthus altissima				Х		
2414	20"	Norway Maple	Acer platanoides				Х		
2415	20"	Tree-of-heaven	Ailanthus altissima				Х		
2416	25"	Tree-of-heaven	Ailanthus altissima				Χ	Х	
2417	6"	Tree-of-heaven	Ailanthus altissima				Χ	Х	
2418	7"	Tree-of-heaven	Ailanthus altissima				Χ	Х	
2419	13"	Tree-of-heaven	Ailanthus altissima				Χ		
2420	17"	Tree-of-heaven	Ailanthus altissima				Χ		
2421	6"	Norway Maple	Acer platanoides				Χ		
2422	7"	Tree-of-heaven	Ailanthus altissima				Х		
2423	16"	American Elm	Ulmus americana					Х	
2424	12"	Norway Maple	Acer platanoides				Χ		
2425	17"	Linden	Tilia americana						
2426	16"	Black Walnut	Juglans nigra						
2427	10"	Norway Maple	Acer platanoides	twin			Χ	Х	
2428	11"	Norway Maple	Acer platanoides				Χ	Х	
2429	43"	White Oak	Quercus alba			Х		Х	
2430	35"	White Oak	Quercus alba			Х			
2431	27"	White Oak	Quercus alba			Χ			
2432	44"	White Oak	Quercus alba			Χ		Х	
2433	10"	White Pine	Pinus strobus					Х	
2434	17"	White Pine	Pinus strobus					Х	
2435	16"	Sycamore	Platanus occidentalis						
2436	23"	Tree-of-heaven	Ailanthus altissima				Х	Х	
2437	23"	Tree-of-heaven	Ailanthus altissima				Х	Х	
2438	12"	Tree-of-heaven	Ailanthus altissima				Χ	Х	
2439	13"	Tree-of-heaven	Ailanthus altissima				Χ	Х	



Schedule									
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Lumens Per Lamp	Light Loss Factor	Wattage
	В	2	Lithonia Lighting	DSX0 LED P4 30K 80CRI TFTM	D-Series Size 0 Area Luminaire P4 Performance Package 3000K CCT 80 CRI Forward Throw	LED	9908	0.9	93.04
	С	1	Lithonia Lighting	DSX0 LED P4 30K 80CRI BLC4	D-Series Size 0 Area Luminaire P4 Performance Package 3000K CCT 80 CRI Type 4 Extreme Backlight Control	LED	7283	0.9	93.04

City of Ann Arbor Lighting Notes:
1. All lights to comply with City of Ann Arbor – Unified Development Code Section 5.25 for Outdoor Lighting

2. The light fixtures specified are 70cri and 3000k for all fixtures

3. All lighting to be downward directed or adequately shielded to prevent off site glare.

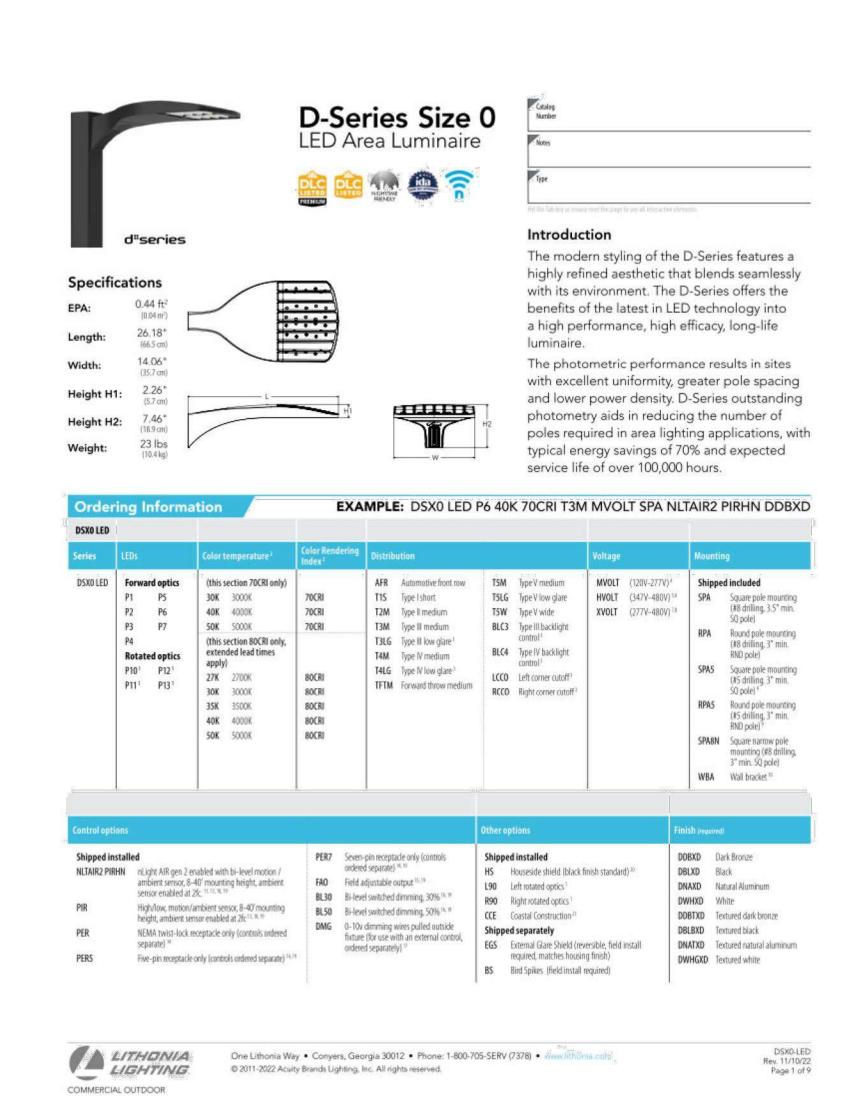
4. Luminaires for above grade/vertical targets must be partially shielded.
5. Any façade illuminance must be provided from above and may not exceed 5 footcandles

6. All decorative and landscape illumination must be off between midnight and

FOR DEMONSTRATION OF SITE LIGHTING ONLY, ADDITIONAL STREET LIGHTING WILL BE PROVIDED ALONG STATE AND PACKARD STREET FRONTAGES.



Statistics						
Description	Symbol	Avg	Max	Min	Avg/Min	Max/Min
OVERALL	+	0.3 fc	6.3 fc	0.0 fc	N/A	N/A
PARKING	Ж	1.8 fc	5.5 fc	0.3 fc	6.0:1	18.3:1
PROPERTY LINE	+	0.0 fc	0.3 fc	0.0 fc	N/A	N/A



3' ACCESS EASEMED 0.0 0.0 10.67' 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 -8 CLASS C BIKE SPACES 10 CLASS C BIKE SPACES-305.9 0.0 000 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.00 0.00 0.0, 0.0 0.0 0.0 0.0 0.0 0.0 115 CLASS B BIKE SPACES -0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 -PROPOSED SOLID WASTE DUMPSTER STAGING AREA 0.0 0.0 0.0 0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 29 2.6 1.9 27 1.4 1.3 1.0 0.7 0.6 .0.5 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 000 0.0 0.0 2.9 4.6 4.3 SHOPET9TERM2PIARKING 1.2, 0,9 ,0.8 0.7 0.7 0.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.5 1.4 5.5 5.5 5.5 3.2 2.2 1.6 1.3 1.3 1.3 1.3 1.3 1.3 0.0 0.0 0.0 01 0.2 0.5 1.4 3.1 2.6 2.5 1.7 1.3 1.6 2.1 2.4 2.4 1.9 → 3' ACCESS EASEMENT 0.0 000 0.0 0.0 0.0 10.0 +0.1 +0.1 +0.2 +0.5 +0.9 +0.7 +0.8 +1.2 +1.4 +2.0 2.8 2.8 2.7 PAR 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 B @ 15' 0.0 0.0 1.1 2.0 2.8 2.2 ×2.2 0.0 00.0 0.0 0.0 0.0 0.0 0.1 0.1 0.2 Mg.4 0.0 0.0 0.0 0.0 0.0 0.0 0.5 0.0 0.0.1 O.OPROPOSED OCROSSWALK, O.O.G.N.A.O.P.ZATION O.O. 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.3 13/1.4 0.7 $0.0 \quad 0.0 \quad 0.0$ 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 < 0.0

<u>Plan View</u>

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Scale - 1" = 20ft

0.0

General Note

- 1. SEE DRAWING FOR LUMINAIRE MOUNTING HEIGHT.
- 2. CALCULATIONS ARE SHOWN IN FOOTCANDLES AT: 3' 0"
- 3. LIGHTING ALTERNATES REQUIRE NEW PHOTOMETRIC CALCULATION AND RESUBMISSION TO CITY FOR APPROVAL.

THE ENGINEER AND/OR ARCHITECT MUST DETERMINE APPLICABILITY OF THE LAYOUT TO EXISTING / FUTURE FIELD CONDITIONS. THIS LIGHTING LAYOUT REPRESENTS ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY APPROVED METHODS. ACTUAL PERFORMANCE OF ANY MANUFACTURER'S LUMINAIRE MAY VARY DUE TO VARIATION IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, AND OTHER VARIABLE FIELD CONDITIONS. MOUNTING HEIGHTS INDICATED ARE FROM GRADE AND/OR FLOOR UP.

THESE LIGHTING CALCULATIONS ARE NOT A SUBSTITUTE FOR INDEPENDENT ENGINEERING ANALYSIS OF LIGHTING SYSTEM SUITABILITY AND SAFETY. THE ENGINEER AND/OR ARCHITECT IS RESPONSIBLE TO REVIEW FOR MICHIGAN ENERGY CODE AND LIGHTING QUALITY COMPLIANCE.

UNLESS EXEMPT, PROJECT MUST COMPLY WITH LIGHTING CONTROLS REQUIRMENTS DEFINED IN ASHRAE 90.1 2013. FOR SPECIFIC INFORMATION CONTACT GBA CONTROLS GROUP AT ASG@GASSERBUSH.COM OR 734-266-6705.

FOR ORDERING INQUIRIES CONTACT GASSER BUSH AT QUOTES@GASSERBUSH.COM OR 734-266-6705.

THIS DRAWING WAS GENERATED FROM AN ELECTRONIC IMAGE FOR ESTIMATION PURPOSE ONLY. LAYOUT TO BE VERIFIED IN FIELD BY OTHERS.

MOUNTING HEIGHT IS MEASURED FROM GRADE TO FACE OF FIXTURE. POLE HEIGHT SHOULD BE CALCULATED AS THE MOUNTING HEIGHT LESS BASE HEIGHT.

Designer
DP/DS/KB
Date
01/25/2023
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Scale
Not to Scale
Drawing No.
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