





Tax Parcels



The underground utilities shown have been located from field survey information and existing records. The surveyor makes no guarantees 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.

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

- 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 Utility Plan.
- 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 o proposed. 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 and Grading 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
- Erosion Control Plan. Soil Erosion Control Notes, number 11. 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.
- 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. Schedule and Cost Estimate 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 aring, 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. a. Location, type and details of proposed lighting fixtures. Relocated/replaced streetscape lightpole 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

- following: A Traffic Impact Assessment has been submitted under separate cover. 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.



1642 N. MIKWAUKEE AVE. CHICAGO, IL 60647 ANDREW SAVOY 501-786-1736

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

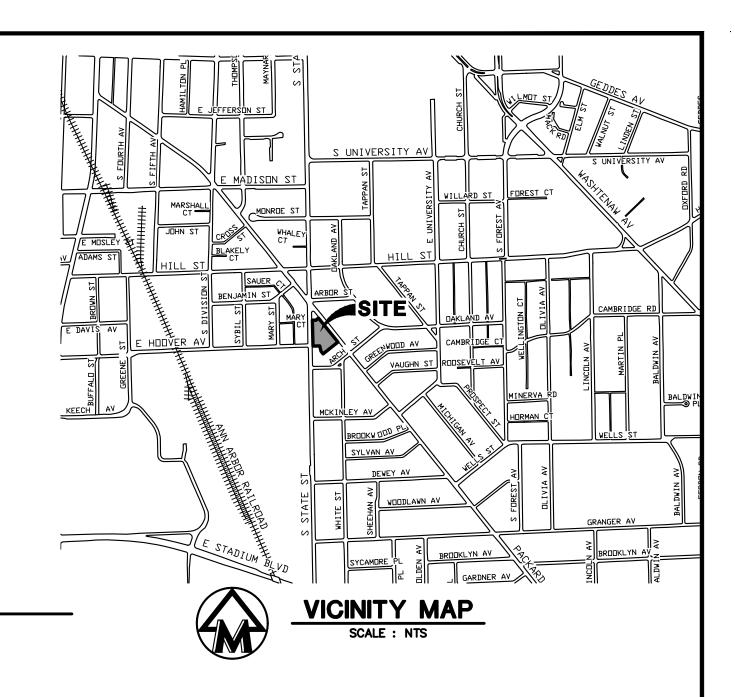
ARCHITECT

DIR GROUP 333 WEST WACKER DRIVE, SUITE 850 CHICAGO, IL 60606 CONTACT: NATHAN CASTEEL 312-382-9980

4844 JACKSON ROAD, SUITE 150 ANN ARBOR, MI 48103 CONTACT: BRAD MOORE 734-930-1500

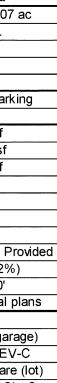
DEVELOPMENT SUMMARY AND COMPARISON CHART

	C1A/R Permitted/Required	Comparison	Proposed
Site Area:	No Minimum	1.27 ac / 55,507 sf	1.27 ac / 55,50
Lot Width	No Minimum	131.92 ft.	332.28 ft.
Zoning:	C1A/R	D1	PUD
Land Use:	Campus Bus. Resid. Dist.	Apartments/Parking	Apartments/Par
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%) F
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
Vehicular Parking*:	None Req'd		
Total Vehicular Parking		None	78 incl. 4 BF (ga
			16 EV-I + 62 E
			1 BF + 3 rideshar
Bicycle Parking**:	1 space/5 units	1 space/5 units	329 CL. A; 12 C
Total Required			
Setbacks:	Front: 10' Min.	Front Min. 0', Max. 1'	State St 5.
		30' Abutting Res. zoning	Packard - 5.2
		30' Abutting Res. zoning	Rear - South- 10
			Side - North - 5
Impervious Surface		N/A	44,952 sf, 81.0



ENGINEER/SURVEYOR/LANDSCAPE ARCH.

J. BRADLEY MOORE & ASSOCIATES ARCHITECTS



CL. C	
.0'	
25'	
0.19'	
5.07'	

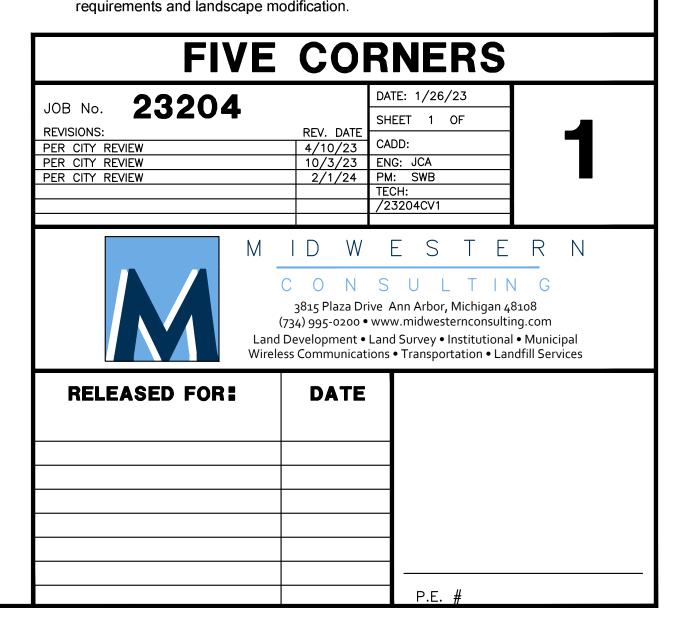
Sheet List Table

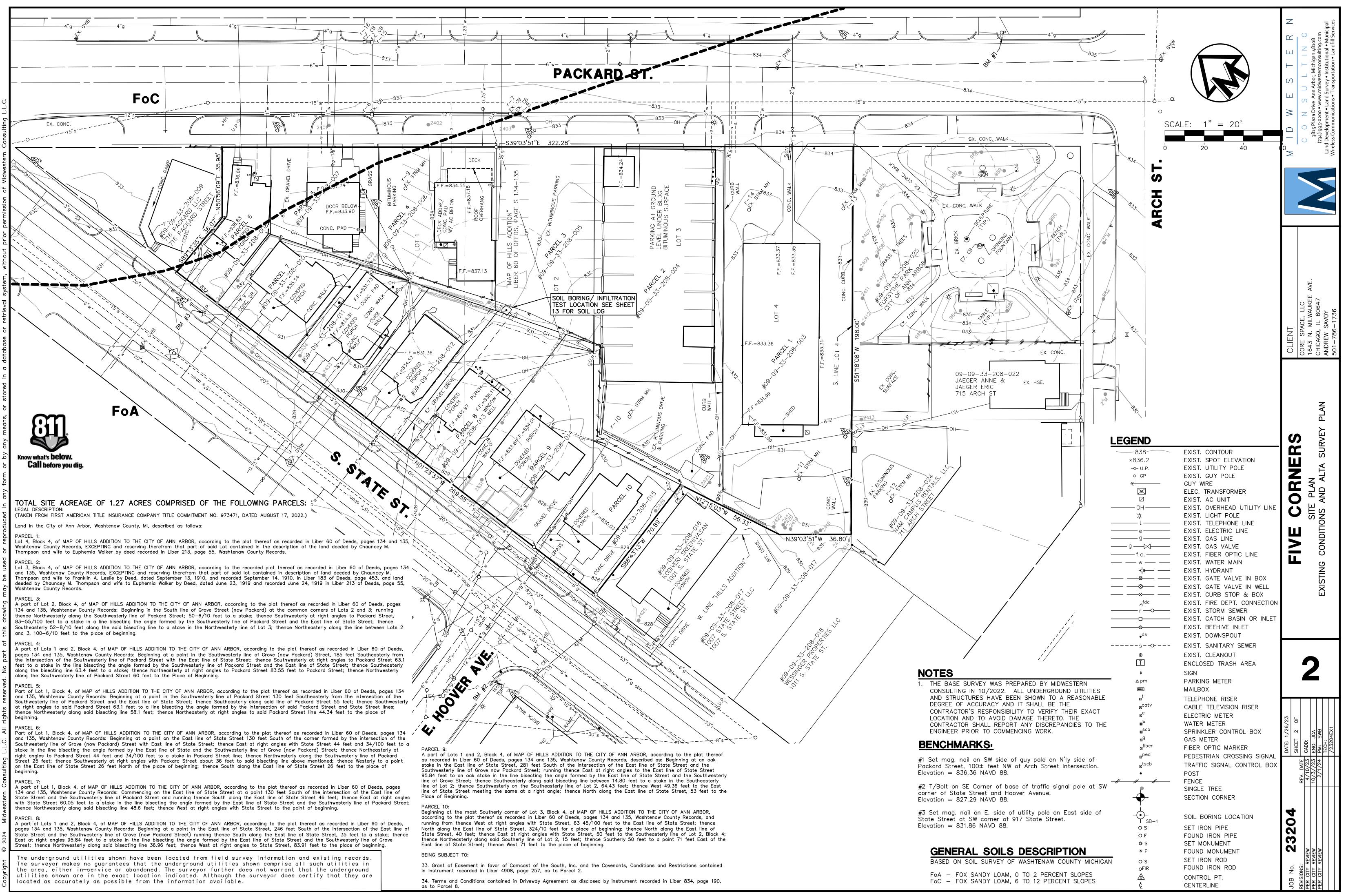
SHEET NUMBER SHEET TITLE COVER SHEET EXISTING CONDITIONS AND ALTA SURVEY PLAN REMOVAL PLAN DIMENSIONAL SITE PLAN GRADING AND SOIL EROSION CONTROL PLAN UTILITY PLAN STORM WATER MANAGEMENT PLAN LANDSCAPE PLAN LANDSCAPE NOTES AND DETAILS 10 FIRE PROTECTION AND SOLID WASTE MANAGEMENT PLAN 11 ALTERNATIVES ANALYSIS 12 SITE ANALYSIS NATURAL FEATURES AND OVERLAY PLAN 13 MISCELLANEOUS DETAILS 14

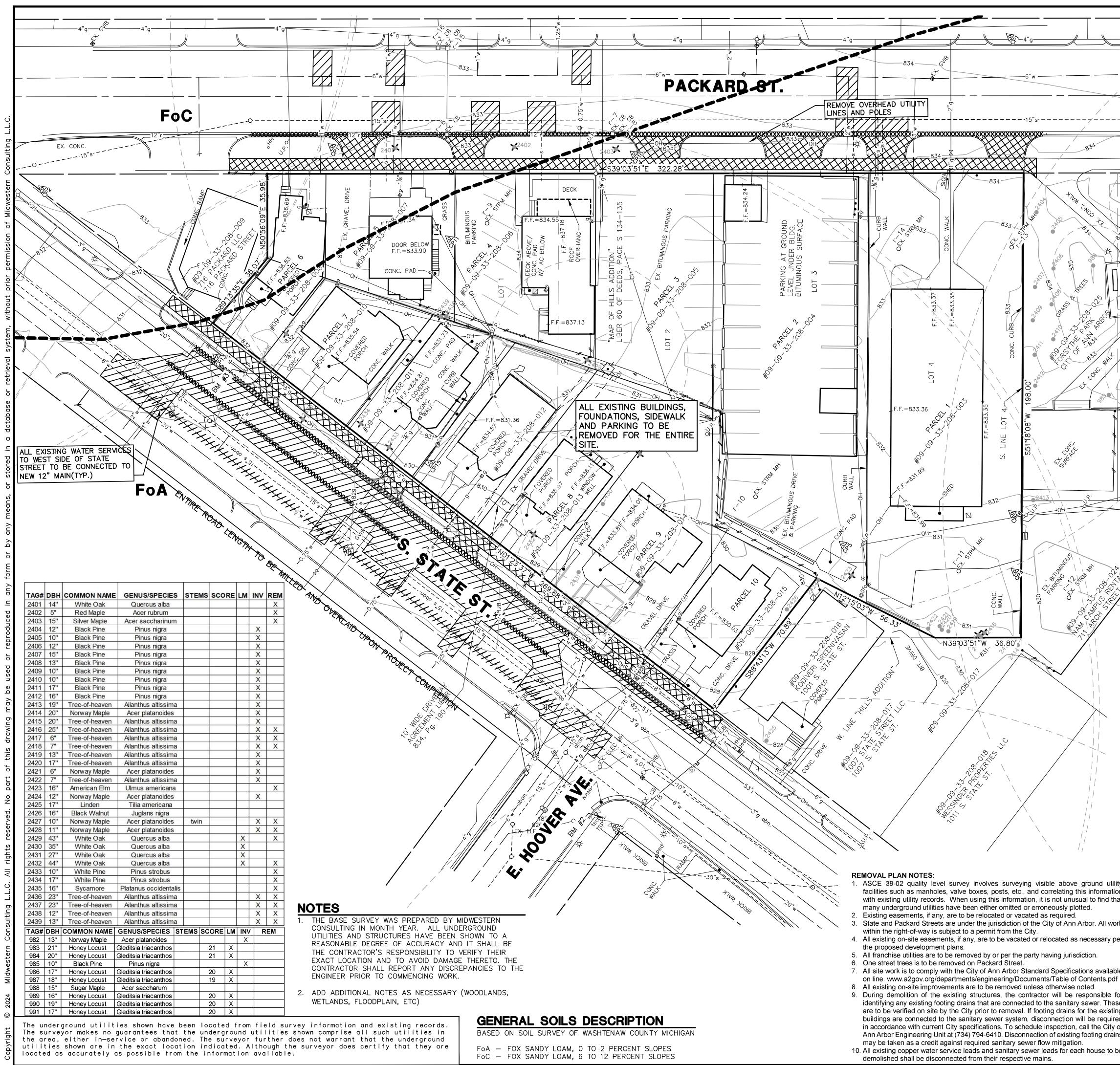
PHOTOMETRIC PLAN

NOTES:

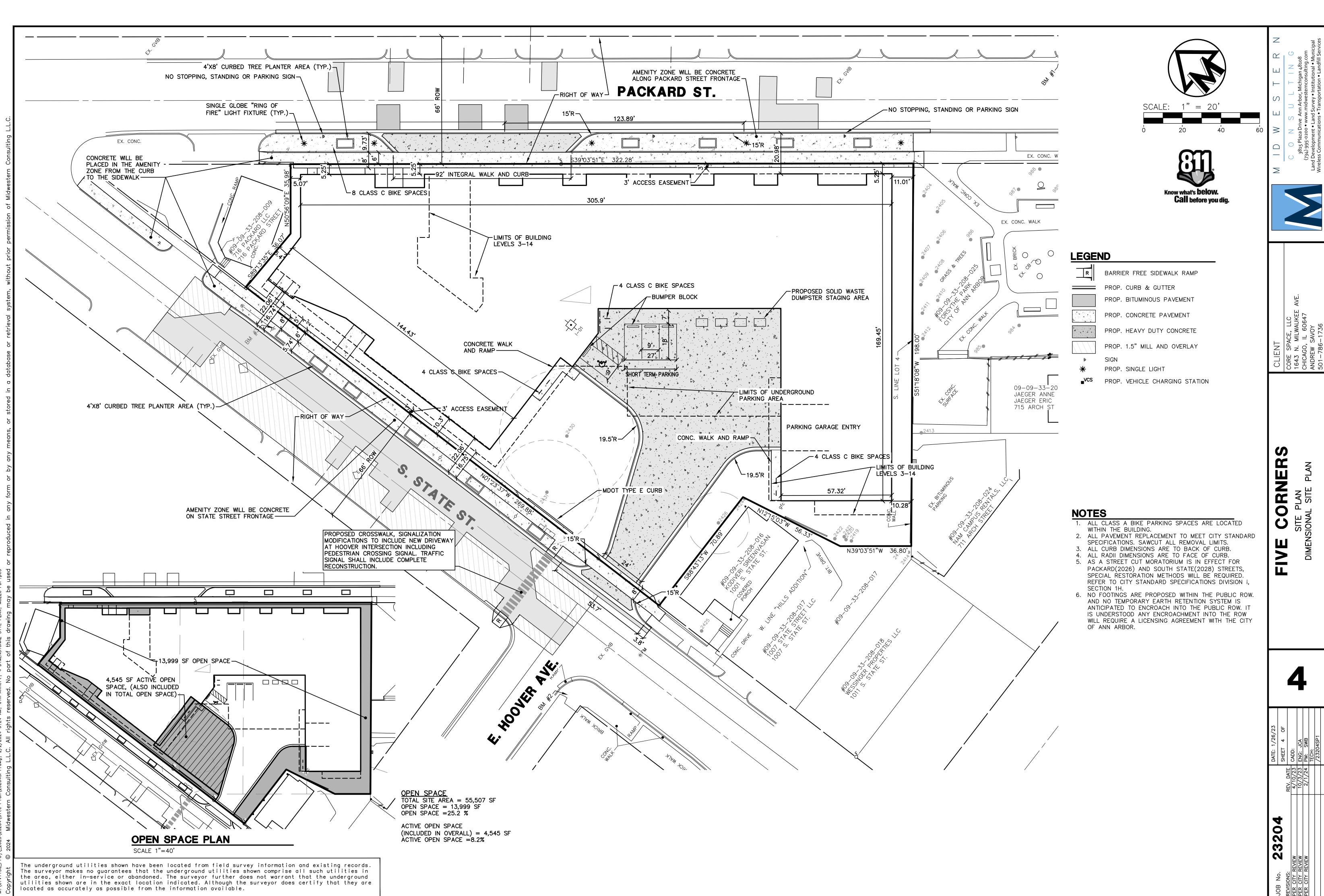
- 1. All sidewalks within the City shall be kept and maintained in good repair by the owner of the land adjacent to and abutting upon the same. Prior to the issuance of the final Certificate of Occupancy for this site, all existing sidewalks in need of repair must be repaired in accordance with City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

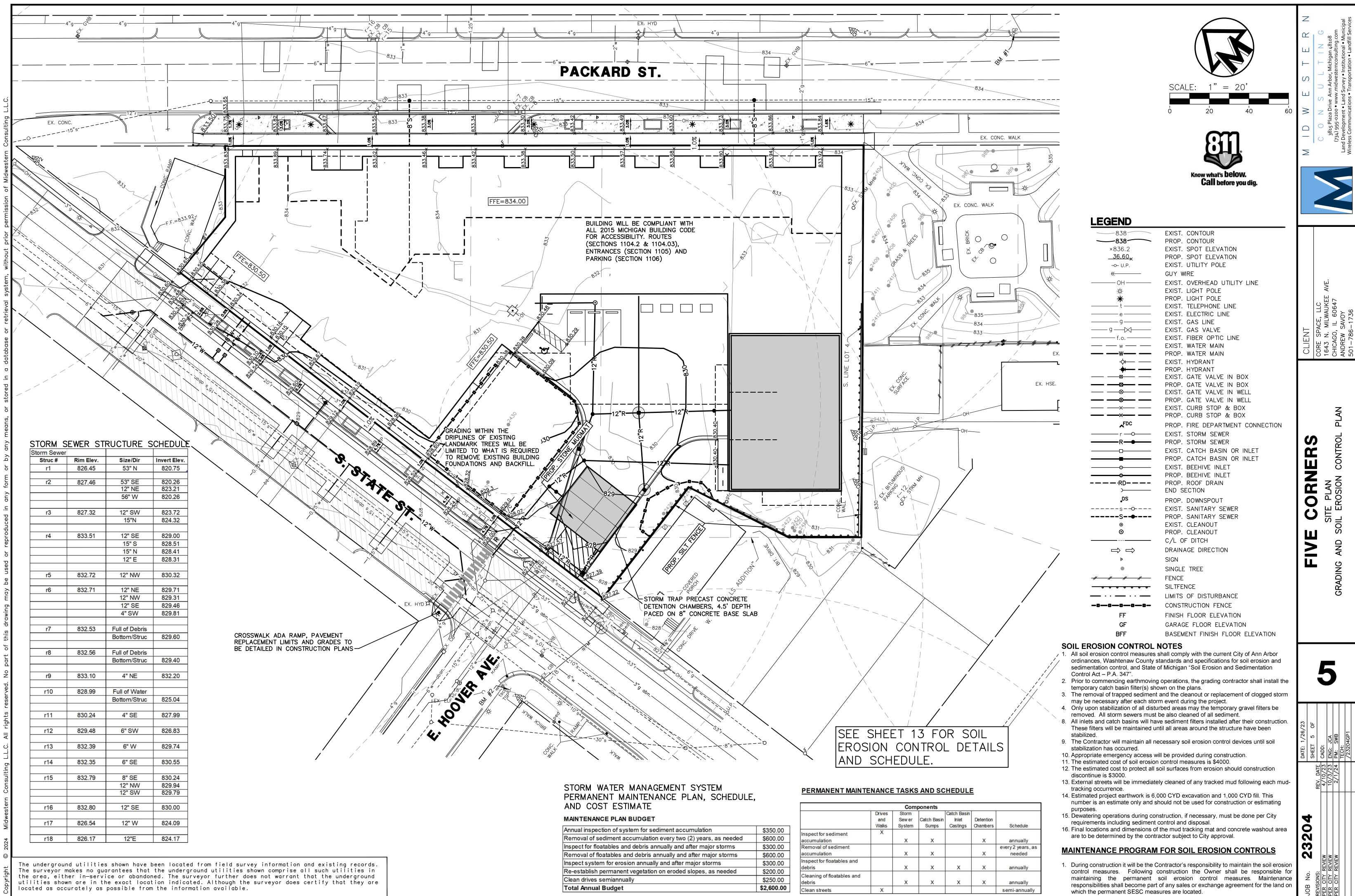






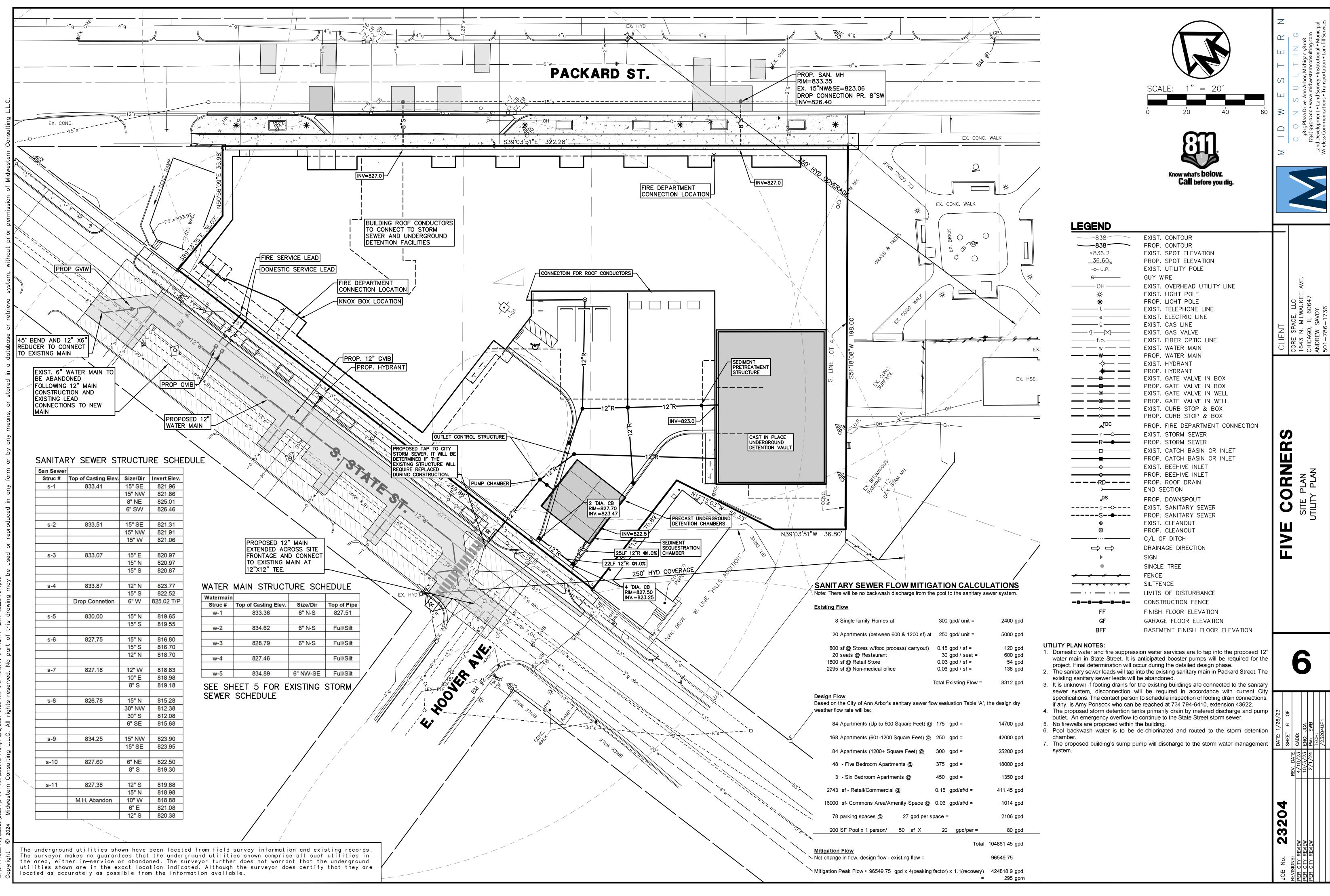
	B34 EX. CONC. WALK	4"g 	SCALE:	1" = 20' $\frac{1}{20}$ $\frac{1}{40}$ $\frac{1}{60}$	 I D W E S T E R N C O N S U L T I N G 3815 Plaza Drive Ann Arbor, Michigan 48108 (734) 995-0200 • www.midwesternconsulting.com Land Development • Land Survey • Institutional • Municipal Wireless Communications • Transportation • Landfill Services
T. BRICK	SIGN PO			ow what's below. Call before you dig.	M
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OH- OH- UP					FIVE CORNERS SITE PLAN REMOVAL PLAN
LE	838 ×836.2 U.P. GP (EXIST. CONTOUR EXIST. SPOT ELEVATION EXIST. UTILITY POLE EXIST. GUY POLE GUY WIRE ELEC. TRANSFORMER		SINGLE TREE TREE OR BRUSH LIMIT SECTION CORNER	
	OH t e g g f.o f.o f.o f.o w ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	ELEC. TRANSFORMER EXIST. OVERHEAD UTILITY LINE EXIST. LIGHT POLE EXIST. TELEPHONE LINE EXIST. ELECTRIC LINE EXIST. GAS LINE EXIST. GAS VALVE EXIST. FIBER OPTIC LINE EXIST. FIBER OPTIC LINE EXIST. WATER MAIN EXIST. HYDRANT EXIST. GATE VALVE IN BOX EXIST. GATE VALVE IN BOX EXIST. GATE VALVE IN WELL EXIST. CURB STOP & BOX FIRE DEPARTMENT CONNECTION EXIST. STORM SEWER EXIST. CATCH BASIN OR INLET EXIST. BEEHIVE INLET EXIST. DOWNSPOUT EXIST. SANITARY SEWER EXIST. CLEANOUT	OS OF ⊚S ◎F ●Spk oFPK OS oFIR ↓ ¢	SOIL BORING LOCATION EXIST. TEST PIT LOCATION SET IRON PIPE FOUND IRON PIPE SET MONUMENT FOUND MONUMENT SET P.K. FOUND P.K. SET IRON ROD FOUND IRON ROD CONTROL PT. CENTERLINE PROPERTY LINE CONCRETE TO BE REMOVED BITUMINOUS TO BE REMOVED	REV. DATE: 1/26/23 SHEET 3 OF 4/10/23 ENG: JCA 2/1/24 FM: SWB 7/23204RM1 2/3/23 FICH: 2/3/204RM1
e e f c v	Þ ⊠ ^t ⊠ ^{catv} ⊠ ^e • •	SIGN TELEPHONE RISER CABLE TELEVISION RISER ELECTRIC METER WATER METER POST EXIST. BOLLARD FENCE GUARDRAIL	<pre> ////////////////////////////////////</pre>	UTILITY TO BE ABANDONED CURB OR UTILITY TO BE REMOVED TREE TO BE REMOVED ITEM TO BE RELOCATED ITEM TO BE REMOVED	JOB No. 23204 REVISIONS: PER CITY REVIEW PER CITY REVIEW PER CITY REVIEW





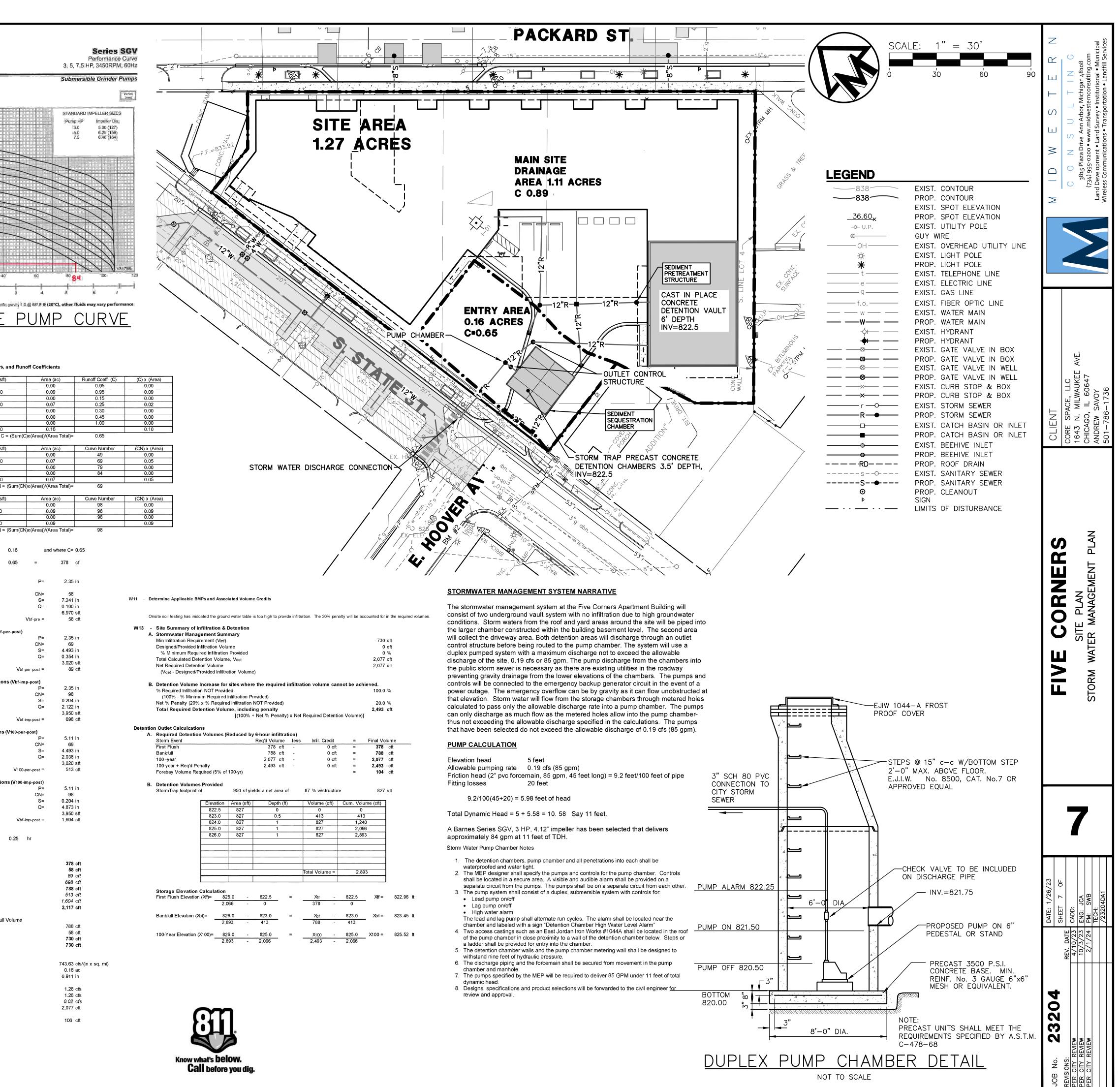
Total Annual Budget	\$2,600.00
Clean drives semiannually	\$250.00
Re-establish permanent vegetation on eroded slopes, as needed	\$200.00
nspect system for erosion annually and after major storms	\$300.00
Removal of floatables and debris annually and after major storms	\$600.00
nspect for floatables and debris annually and after major storms	\$300.00
Removal of sediment accumulation every two (2) years, as needed	\$600.00
Annual inspection of system for sediment accumulation	\$350.00

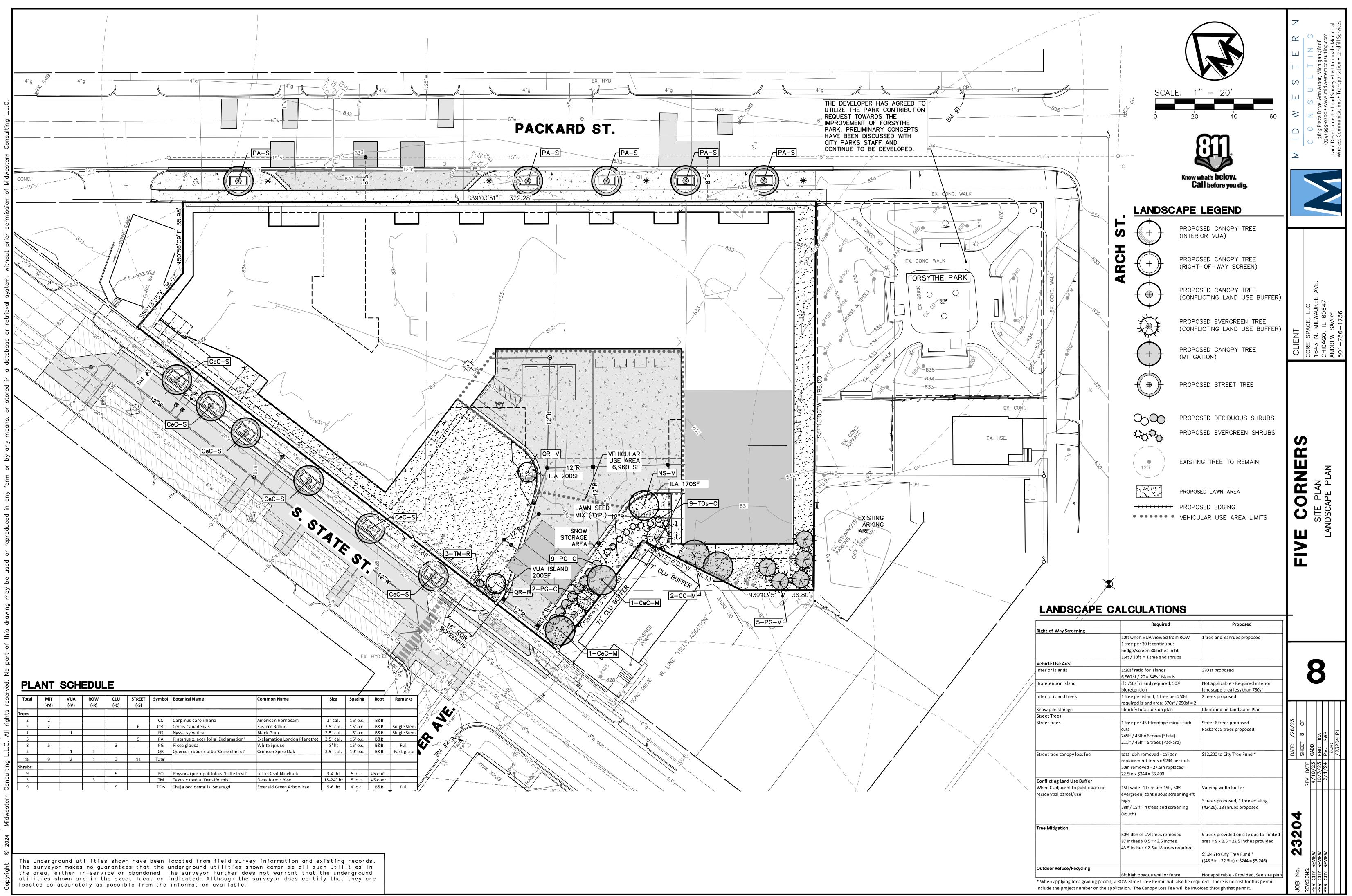
		Com	ponents
	Drives and Walks	Storm Sew er System	Catch Basin Sumps
Inspect for sediment accumulation	X	x	x
Removal of sediment accumulation		x	x
Inspect for floatables and debris		x	x
Cleaning of floatables and debris		x	x
Clean streets	Х		



J_Proj_2023\23204\Site Plan\23204UP1.dwg, 2/2/2024 9:25 AM, Jim Ahnert, 6 UTILITY PLAN, MCLLC PDF.pc3

		Rational Method V Cover Type Building	Soil Ty	pe	Area (sft) 44,240	Area (ac) 1.02	Runoff Coeff. (C) 0.95	(C) x (Area 0.96	a)	BARNE	5
		Pavement Grass	A			0.00 0.00	0.95 0.15	0.00		www.cranepumps.com	
		Grass Grass Grass	B C D		4,300	0.10 0.00 0.00	0.25 0.30 0.45	0.02 0.00 0.00		TOTAL LUCAD	
		Water Surface Total			48,540	0.00 1.11	1.00	0.00		TOTAL HEAD METERS FEET 60 200	
		NRCS Variables (P			/eighted C = (Sum(C)>	· // ·	,	(0))			
		Cover Type Grass Grass	Soil Type A B		Area (sft) 0 4,300	Area (ac) 0.00 0.10	Curve Number 49 69	(CN) x (Are 0.00 0.07	:a)	50 6.46 (164)	
		Grass Grass	C D		0	0.00 0.00	79 84	0.00		160 6.25 (159) 6.00 (152)	
		Total	mpanyious)	Weig	4,300 hted CN = (Sum(CN)>	0.10 ((Area))/(Area Tota	al)= 69	0.07		40 - 5.75 (146)	
		Cover Type Building	Soil Type		Area (sft) 44,240	Area (ac) 1.02	Curve Number 98	(CN) x (Are	ea)	120 5.25 (133)	
		Pavement Water Surface			0	0.00	98 98	0.00		30	
		Total		Weig	44,240 hted CN = (Sum(CN))	1.02 ((Area))/(Area Tota	al)= 98	1.00		80 4.50 (114)	
12		W2 - First Flush Ru Vff = 1" x 1/12" x 4	inoff Calculations (Vff) 3560 sft/ac x A x C	where	e A= 1.11	and where	C= 0.89			20	
		Vff = 1" x 1/12" x 4	3560 sft/ac x	1.11	x 0.89	= 3,60	00 cf			40	
/3	Α.	2 year / 24 hour stor		alculations (Vbf-pre	e)	P= 2	2.35 in			10-	
		Pre-Development CN (Good Cover Woods	, Type B Soils)			CN=	58				
	D.	S = (1000 / CN) - 10 Q = [(P-0.2S)^2] / [F Total Site Area excl		Ps		Q= 0.	241 in 100 in 540 sft			U.S. GALLONS PER MINUTE	20 2
		Vbf-pre = $Q \times (1/12)$			V	,	404 cft			LITERS PER SECOND	2
14	А.	2 year / 24 hour stor		ull Runoff Calculat	ions (Vbf-per-post)		2.35 in				rmed with water, speci
	C.	Pervious Cover CN F S = $(1000 / CN) - 10$)				69 493 in			DISCH	ARGE
	Е.	Q = [(P-0.2S) ²] / [F Pervious Cover Area Vbf-per-post = Q x (1	from Worksheet 1		Vhf~	4,	354 in 300 sft 127 cft				
15			over Post-Developmen	t Bankfull Runoff C		-post)		ENTRY	AREA Basin St	ormwater Calculatio	ons
	в.	2 year / 24 hour stor Impervious Cover CN	I From Worksheet 1			CN=	2.35 in 98 204 in	W1 - D	etermining Post-Deve	lopment Cover Types, Areas	
	D.	S = (1000 / CN) - 10 Q = [(P-0.2S)^2] / [F Impervious Cover Ar	P+0.8S]			Q= 2.	204 in 122 in 240 sft	C	ational Method Varia Cover Type	bles Soil Type	Area (s
	F.	Vbf-imp-post = Q x (1	/12) x Area			np-post = 7,	822 cft	P	uilding Pavement Grass	A	3,950
16	А.	100 year / 24 hour s		00-Year Runoff Ca	lculations (V100-per-p	P= 5	5.11 in	0	Grass Grass	B C	3,020
	C.	Pervious Cover CN F S = (1000 / CN) - 10 Q = [(P-0.2S)^2] / [F)				69 493 in 038 in	V	Grass Vater Surface	D	
	Ε.	Q = [(P-0.2S) ²] / [F Pervious Cover Area V100-per-post = Q x (from Worksheet 1		V100-ne	4,	300 sft 730 cft	L	otal IRCS Variables (Pervio	ous)	6,970 Weighted 0
7	-	W7 - Impervious C	over Post-Developmen	t 100-Year Runoff (ıp-post)		C	Cover Type Grass	Soil Type A	Area (s
	В.	2 year / 24 hour stor Impervious Cover CN S = (1000 / CN) - 10	I From Worksheet 1			CN=	5.11 in 98 204 in	0	Grass Grass	B C	3,020
	D.	S = (1000 / CN) - 10 Q = [(P-0.2S)^2] / [F Impervious Cover Ar	P+0.8S]			Q= 4.	204 In 873 in 240 sft		orass otal	D	0 3,020 Weighted CN
_	F.	Vbf-imp-post = $Q \times (1)$	/12) x Area		Vbf-in		965 cft		ICRS Variables (Imper Cover Type	rvious) Soil Type	Area (s
/8		Time of Concentra Assume 15-minute	tion (Tc-hrs) minimum time of concent	ration	Tc= 0.25 I	hr		B	avement		0 3,950
9		Runoff Summary 8 Summary from Previ	Con-Site Infiltration Re	quirement					Vater Surface otal		0 3,950 Weighted CN
	В.	Impervious Cover Po Total 100-Year Vol Determine Onsite In Subtract the Pre-De Total Post-Developm	filtration Requirement velopment Bankfull from t nent Bankfull Volume (Vb ankfull Runoft Volume (Vb)ifference	ar Volume (V100-im) the Post-Developme f-post)	p-post)	17, 1 18, 7, 7,	730 cff 965 cff 695 cft 949 cft 404 cft 545 cft 545 cft	A. 2 B. P ((C. S D. C E. T	year / 24 hour storm ev Pre-Development CN Good Cover Woods, Typ 5 = (1000 / CN) - 10 2 = [(P-0.2S) ²] / [P+0.8 otal Site Area excluding	be B Soils) 3S] y "Self-Crediting" BMPs	; (Vbf-pre)
/10	-	Detention/Retentio	. ,			7,	545 cπ		/bf-pre = Q x (1/12) x Are	ea evelopment Bankfull Runoff (Palculations (VM
	в.		uding "Self-Crediting" BN	IPs		1	3.63 cfs/(in x sq. mi) I.11 ac	A. 2	year / 24 hour storm ev envious Cover CN From	<i>i</i> ent:	
		Q100 = Q100-per + $Q(from W6 and W7, r$	espectively)				911 in	D. C	6 = (1000 / CN) - 10 9 = [(P-0.2S)^2] / [P+0.8	-	
		Delta = $PF - 0.15 x$ [0.15 x Area (ac)]	p x Q100 x Area / 640 Area (ac)			٤	3.95 cfs 3.78 cfs 9.17 cfs		ervious Cover Area from /bf-per-post = Q x (1/12) :		
	F.	Vdet = Delta / PF x V Required Detention	not including infiltration c			18,	346 cft	A. 2	year / 24 hour storm ev		Runoff Calculatio
/11	- 1	Sediment Forebay V	/olume Required (5% of \ BMPs and Associated Volu	/100)		S	935 cft	B. Ir C. S	mpervious Cover CN From = (1000 / CN) - 10	m Worksheet 1	
	(Onsite soil testina has ir	idcated the ground water tab	le is too high to provide	infiltration. The 20% per	nalty will be accounte	ed for in the required volumes	E. Ir	2 = [(P-0.2S) ²] / [P+0.8 npervious Cover Area fro /bf-imp-post = Q x (1/12) x	om Worksheet 1	
/13	-	Site Summary of I Stormwater Manag	nfiltration & Detention gement Summary		- · · · · · · · · · · · · · · · · · · ·	·	·	4. V		x Area ost-Development 100-Year Ru	noff Calculation
		Min Infiltration Requi	nfiltration Volume			7,5	645 cft 0 cft 0 %	A. 1 B. P	00 y <i>e</i> ar / 24 hour storm Pervious Cover CN From	event:	
		% Minimum Requ Total Calculated Del Net Required Detent				,	0 % 346 cft 346 cft	D. C	δ = (1000 / CN) - 10 δ = [(P-0.2S)^2] / [P+0.8 Pervious Cover Area from	-	
		(Vdet - Designed/F	Provided Infiltration Volum	,		,			/ervious Cover Area from /100-per-post = Q x (1/12)		
	В.	% Required Infiltration		-	Itration volume can		0.0 %	A. 2	year / 24 hour storm ev		Runoff Calculatio
		Net % Penalty (20%	um Required Infiltration P x % Required Infiltration tention Volume, includ	NOT Provided)			0.0 % 15 cft	C. S	mpervious Cover CN Fron 5 = (1000 / CN) - 10 6 = [(P-0.2S)^2] / [P+0.8		
			[(100%		Net Required Detentio	,		E. Ir	v = [(P-0.2S) ²] / [P+0.8 npervious Cover Area fro /bf-imp-post = Q x (1/12)	om Worksheet 1	
		n Outlet Calculcatio Required Detentio Storm Event	ns n Volumes (Reduced by		i) ess Infil. Credit	= Final	Volume	W8 - T	ime of Concentration	(Tc-hrs)	-
		First Flush Bankfull		3,600 cft - 7,949 cft -	0 cft	= 3,60	00 cft 19 cft			num time of concentration	Tc=
		100 -year 100-year + Req'd Pe		18,346 cft - 22,015 cft -	0 cft	= 18,34 = 22,01	46 cft 15 cft	A. S F	ummary from Previous irst Flush Volume (Vff	Worksheets)	
	в	Forebay Volume Re	quired (5% of 100-yr) s Provided			= 91	17 cft	F	Pervious Cover Post-Dev	kfull Runoff Volume (Vbf-pre) velopment Bankfull Volume (Vb)ovelopment Bankfull Volume ()	• • •
		StormTrap footprint	of 4137 sfyi	elds a net area of	90 % w/structure	37	′23 sft	т	otal BF Volume (Vbf-p)evelopment Bankfull Volume (\ p ost) <i>r</i> elopment 100-Year Volume (V1	
			Elevation Area (sft) 822.5 3,723	0	0	Cum. Volume (cft 0	i)	// T	mpervious Cover Post-D Total 100-Year Volume	Development 100-Year Volume((V100)	
			823.0 3,723 824.0 3,723 825.0 3,723	0.5	1,862 3,723 3,723	1,862 5,585 9,308		S		ion Requirement oment Bankfull from the Post-De Bankfull Volume (Vbf-post)	velopment Bankfu
			826.0 3,723 827.0 3,723	1 1 1	3,723 3,723	13,032 16,755		P	•	Il Runoff Volume (Vbf-pre)	
			828.0 3,723 828.5 3,723	1 0.5	3,723 1,862	20,478 22,340		h	nfiltration Requiremer	nt (Vinf)	
					Total Volume =	22,340	_	A. C	etention/Retention Re p = 238.6 Tc^-0.82 otal Site Area avaluating	-	
				L		∠∠,34U		C. C	otal Site Area excluding 2100 = Q100-per + Q100-ii from W6 and W7, respe	mp	
		Storage Elevation First Flush Elevatior	n (Xff)= 826.0 -	823.0 =	Xff -	823.0 Xff	= 823.47 ft	D. P	rom W6 and W7, respe Peak Flow (PF) = Qp x G Delta = PF - 0.15 x Area	Q100 x Area / 640	
		Bonkfull Element	13,032 -	1,862	3,600 -	1,862	- 014 60 A	[0 F. V	0. <i>15 x Area (ac)]</i> /det = Delta / PF x V100		- 10
		Bankfull Elevation (X	bf)= <u>827.0 -</u> 16,755 -	824.0 = 5,585	Xbf - 7,949 -	824.0 Xbf 5,585	f = 824.63 ft			ncluding infiltration credit or pen ne Required (5% of V100)	aity.
		100-Year Elevation(· · · · · · · · · · · · · · · · · · ·	828.0 =	<u>X100</u> - 22.015 -	828.0 X100 20,478	= 828.41 ft				
			22,340 -	20,470	22,010						
			۔ _{22,340} d utilities s akes no guar	shown have	been locat						





The underground utilities shown have been located from field survey information and existing records. The surveyor makes no guarantees 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.

ON CENTER <u>STEEL EDGING DETAIL</u>

NOT TO SCALE

PROPOSED 1/8" THICK STEEL EDGING W/ 12-1/2" STAKES 4'

NON-WOVEN LANDSCAPE FABRIC-PROPOSED PLANTING BED -

EXISTING LAWN ----

WITH THE TOP OF EDGING

<u>NOTE:</u> MATERIALS TO BE FLUSH

PLANTING MIXTURE AS SPECIFIED -SET BALL ON 4" COMPACTED SOIL OR 4" MOUND OF UNDISTURBED SOIL

SCARIFY SIDES AND BOTTOM TO ELIMINATE ALL IMPERVIOUS SURFACES; BACKFILL WITH

3" SAUCER -

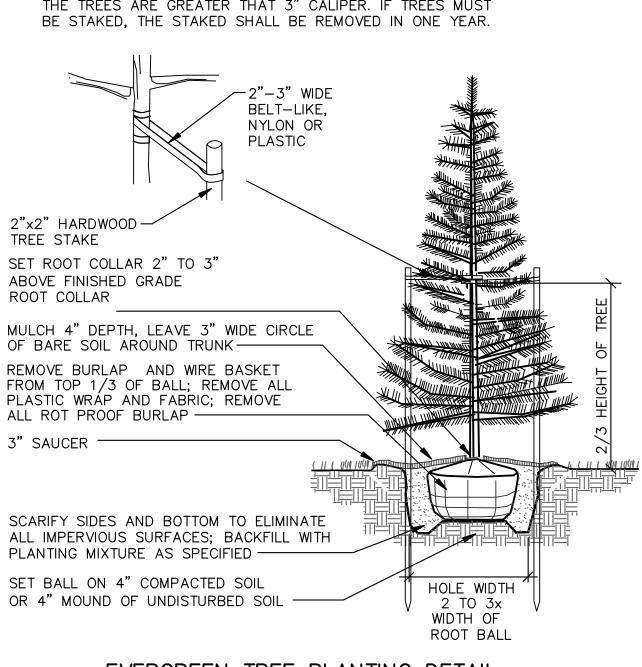
OF BARE SOIL AROUND TRUNK-REMOVE BURLAP AND WIRE BASKET FROM TOP 1/3 OF BALL; REMOVE ALL PLASTIC WRÁP AND FABRIC; REMOVE ALL ROT PROOF BURLAP -

SET ROOT COLLAR 2" TO 3" ABOVE FINISHED GRADE ROOT COLLAR

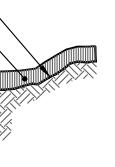
TREE STAKE

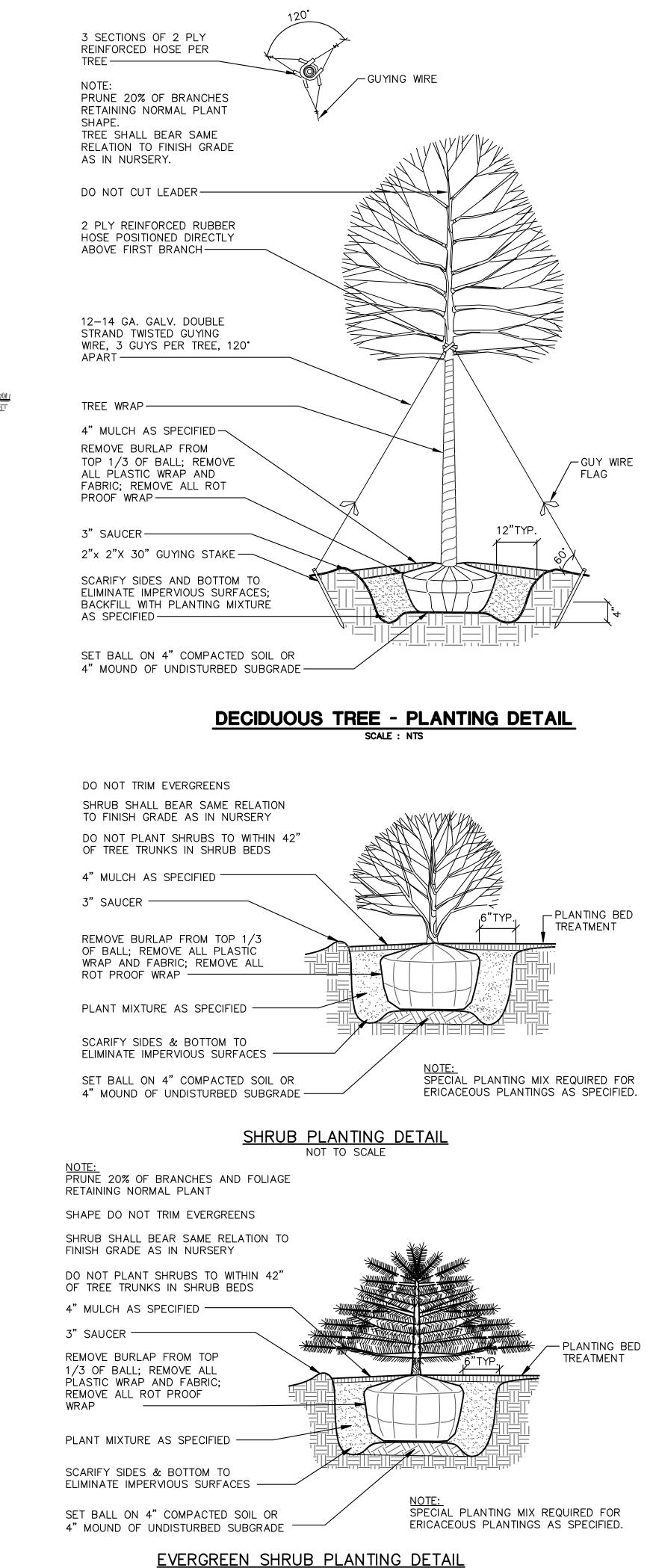
2"x2" HARDWOOD-

NOTE: A: STAKING IS ONLY REQUIRED IF THE SITE IS WINDY OR THE TREES ARE GREATER THAT 3" CALIPER. IF TREES MUST



EVERGREEN TREE PLANTING DETAIL NOT TO SCALE





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 the end of the following growing season.
- 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:

- 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
- texture 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.

fertilizer beyond the initial topsoil and seeding shall be a fertilizer with no phosphorus.

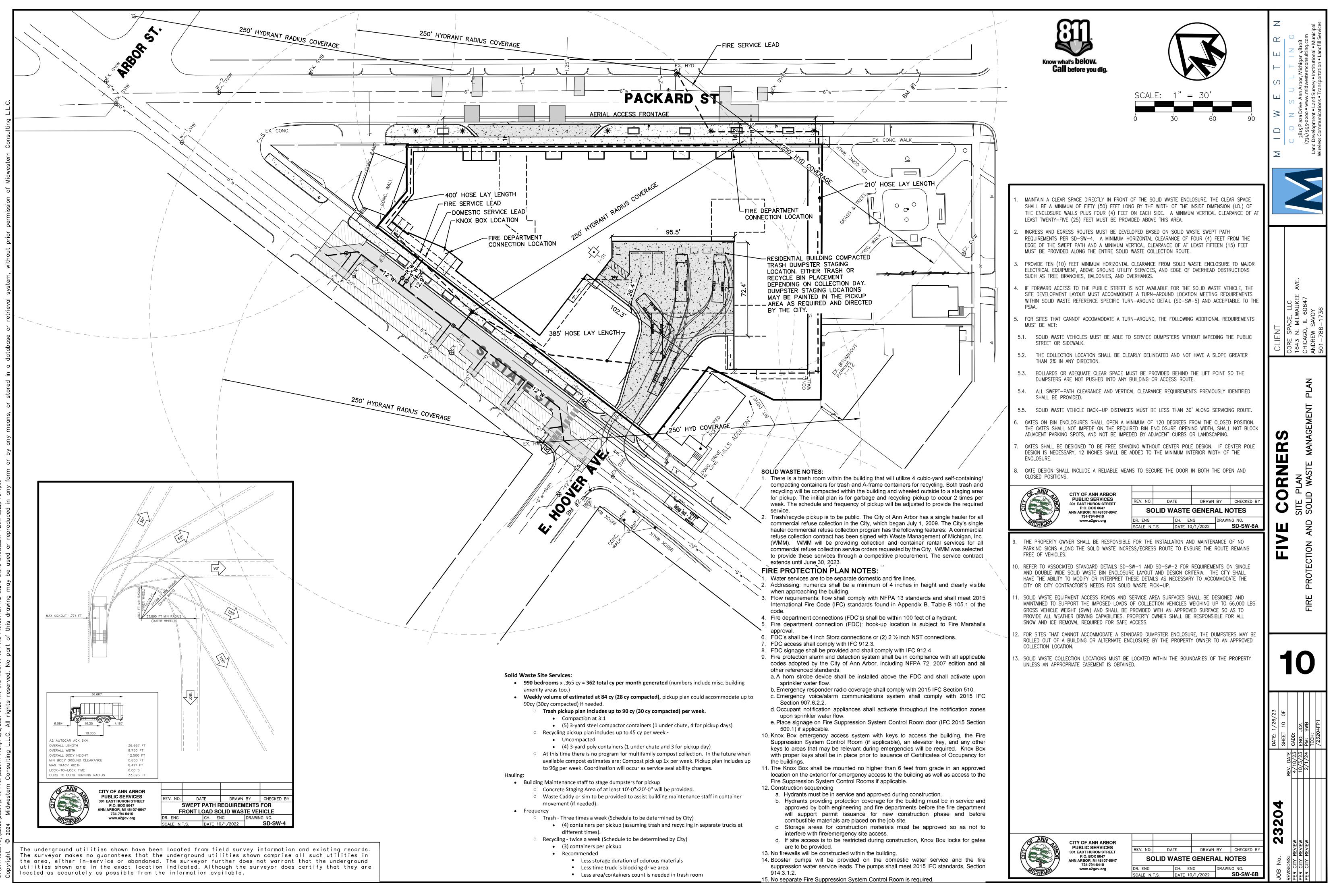
18. All species deviations must be approved in writing by the City of Ann Arbor prior to installation. 19. The City of Ann Arbor has adopted an ordinance limiting phosphorus in fertilizer. To assist in compliance with the State mandated TMDL for phosphorus within the Middle Huron River basin. Applications of

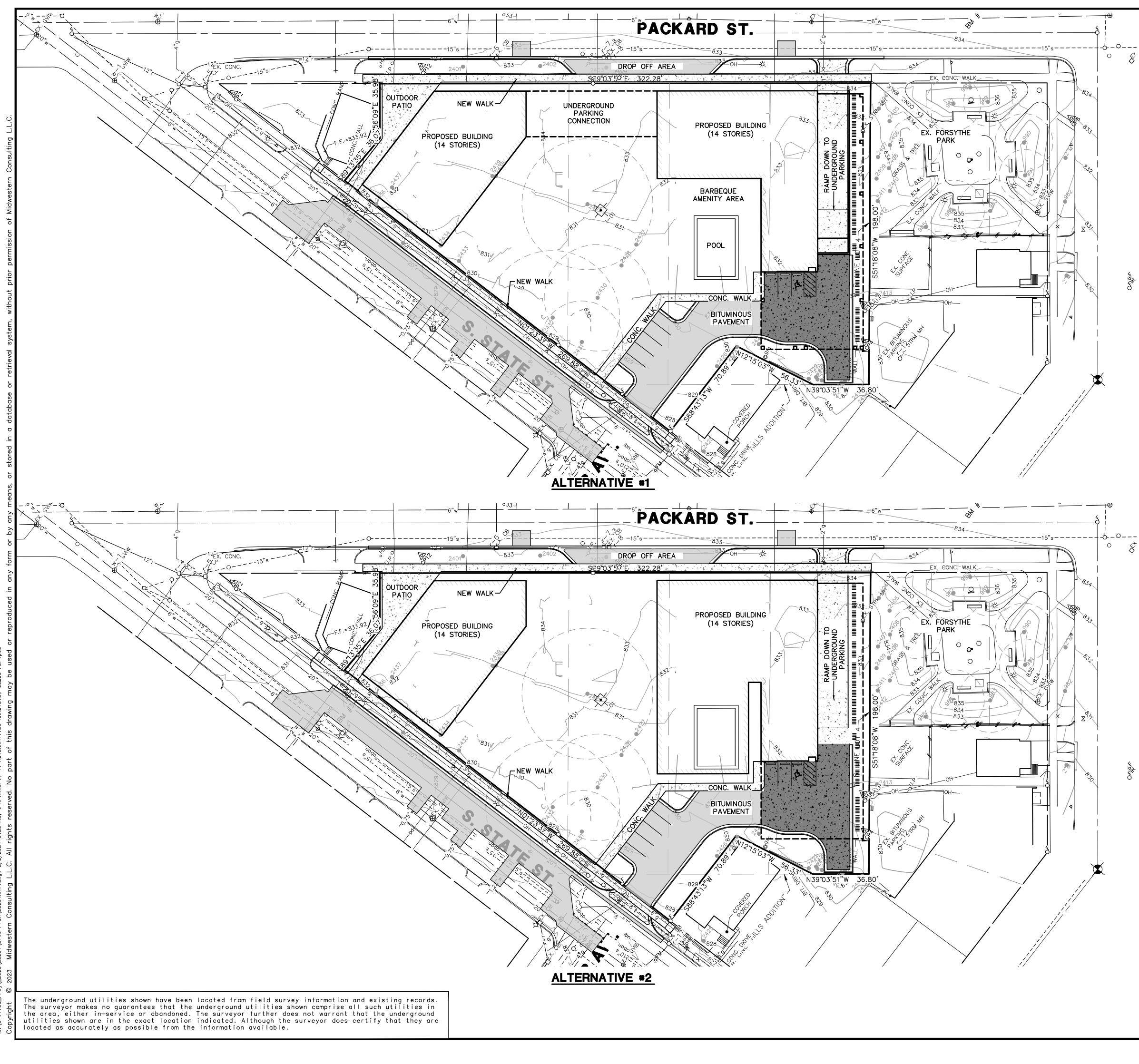
Maintenance:

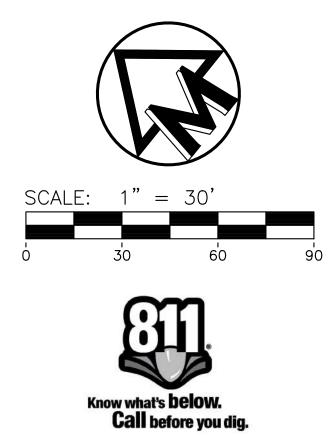
- 1. Maintain plantings by pruning, cultivating, watering, weeding, fertilizing, mulching, restoring planting saucers, adjusting and repairing tree-stabilization devices, resetting to proper grades or vertical position, and performing other operations as required to establish healthy, viable plantings. 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:

maintenance until turf is satisfactory.

- 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







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.

Findings:

- 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.

Discussion:

- 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:

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- 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.

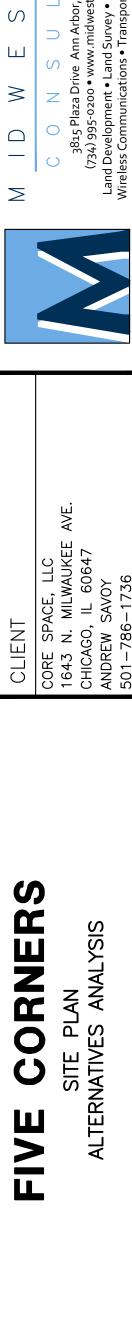
Discussion:

- 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 removal
- The trees to remain are located a significant distance from the building walls and will receive an adequate amount of sunlight.



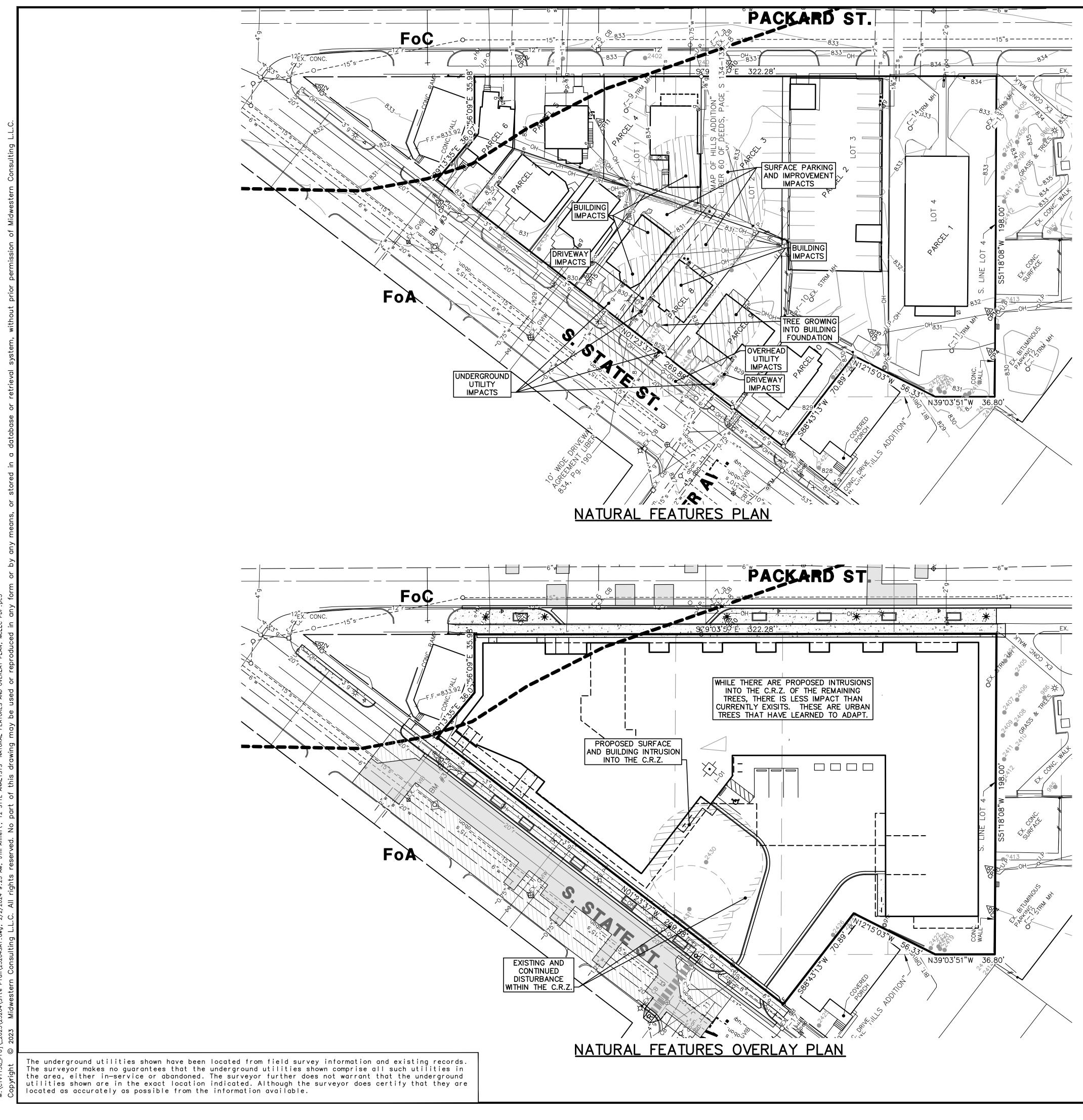
DALE: SHEE CADD: FM: TFCH:

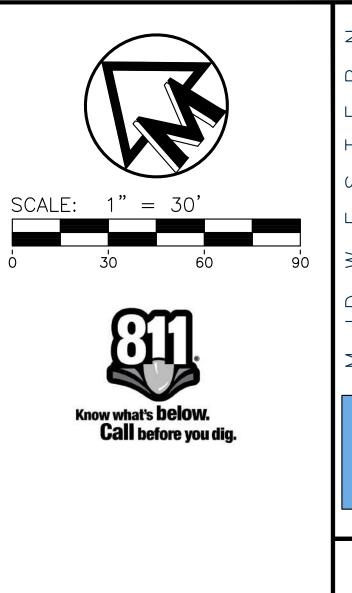
REV. DATE 4/10/23 10/3/23

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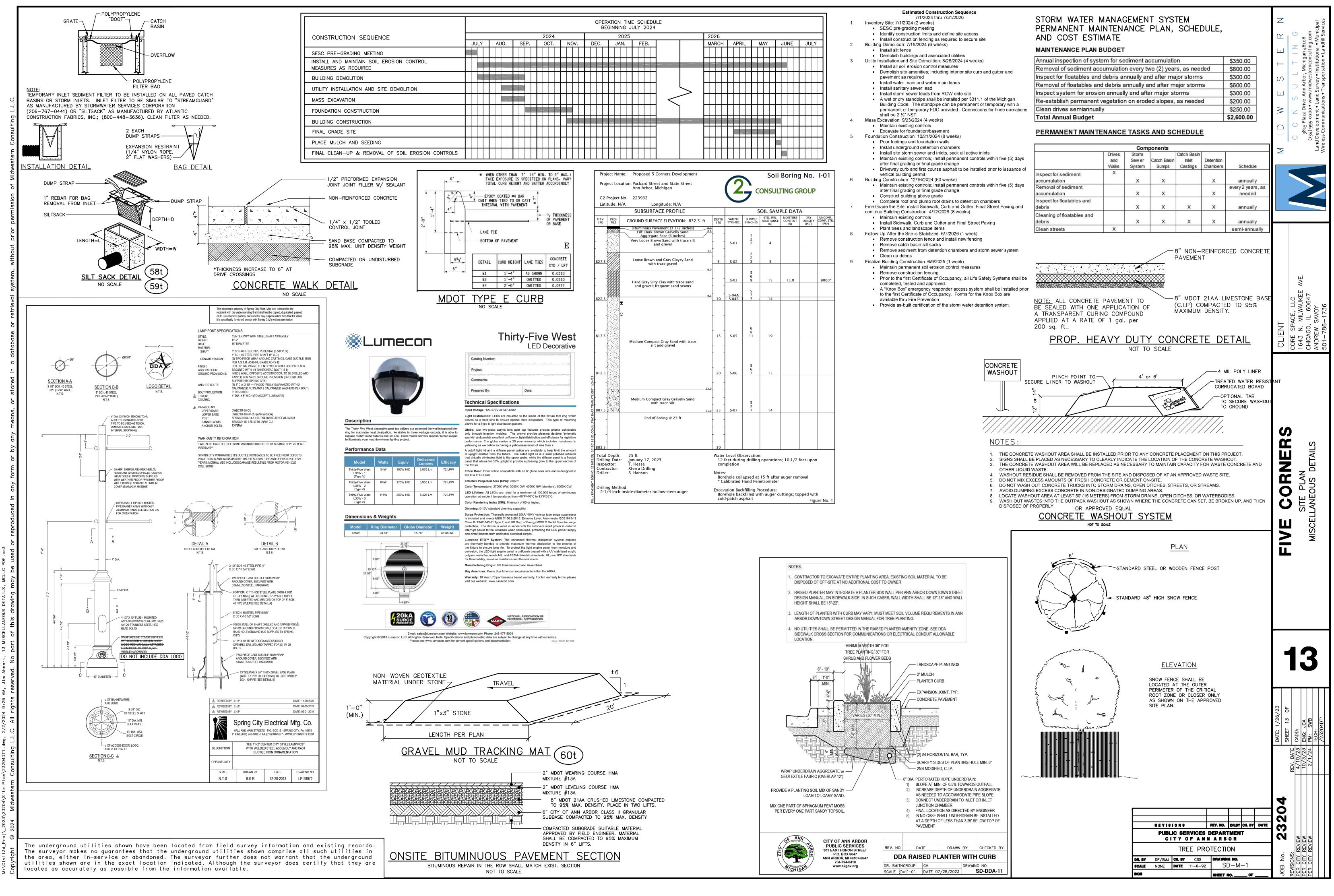
REV. DATE 4/10/23 10/3/23

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.

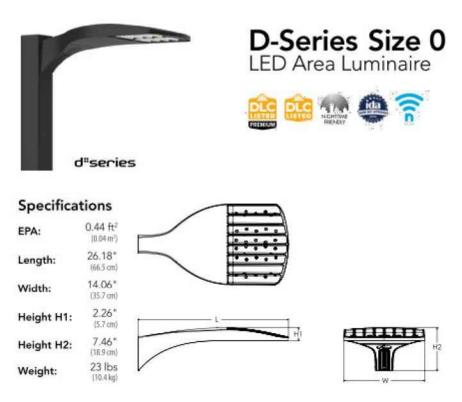
The existing trees have been assessed by an arborist and the feeling is that two of the trees will most likely not survive the demolition of the existing site features, buildings and foundations and required grading. Two of the existing trees while also impacted, have greater chances of survival and 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					X
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				Х	X
2417	6"	Tree-of-heaven	Ailanthus altissima				Х	X
2418	7"	Tree-of-heaven	Ailanthus altissima				Х	X
2419	13"	Tree-of-heaven	Ailanthus altissima				Х	
2420	17"	Tree-of-heaven	Ailanthus altissima				Х	
2421	6"	Norway Maple	Acer platanoides				Х	
2422	7"	Tree-of-heaven	Ailanthus altissima				Х	
2423	16"	American Elm	Ulmus americana					X
2424	12"	Norway Maple	Acer platanoides				Х	
2425	17"	Linden	Tilia americana					
2426	16"	Black Walnut	Juglans nigra					
2427	10"	Norway Maple	Acer platanoides	twin			Х	X
2428	11"	Norway Maple	Acer platanoides				Х	X
2429	43"	White Oak	Quercus alba			Х		X
2430	35"	White Oak	Quercus alba			Х		
2431	27"	White Oak	Quercus alba			Х		
2432	44"	White Oak	Quercus alba			Х		X
2433	10"	White Pine	Pinus strobus					X
2434	17"	White Pine	Pinus strobus					X
2435	16"	Sycamore	Platanus occidentalis					
2436	23"	Tree-of-heaven	Ailanthus altissima				Х	X
2437	23"	Tree-of-heaven	Ailanthus altissima				X	X
2438	12"	Tree-of-heaven	Ailanthus altissima				X	X
2439	13"	Tree-of-heaven	Ailanthus altissima				X	X



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

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				



Estalog		
Notes		

Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications, with typical energy savings of 70% and expected service life of over 100,000 hours.

Series L	.EDs	Color temperature ²	Color Rendering Index ²	Distribution		Voltage	Mounting
	Forward optics P1 P5 P2 P6 P3 P7 P4 Rotated optics P10 ¹ P12 ¹ P11 ¹ P13 ¹	(this section 70CRI only) 30K 3000K 40K 4000K 50K 5000K (this section 80CRI only, extended lead times apply) 27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K	70CRI 70CRI 70CRI 80CRI 80CRI 80CRI 80CRI 80CRI	AFR Automotive front row T1S Type I short T2M Type II medium T3M Type II medium T3LG Type II kw glare ³ T4M Type IV medium T4LG Type IV low glare ³ TFTM Forward throw medium	TSM Type V medium TSLG Type V low glare TSW Type V wide BLC3 Type III backlight control ¹ BLC4 Type IV backlight control ¹ BLC4 Type IV backlight control ¹ LCC0 Left corner cutoff ¹ RCC0 Right corner cutoff ¹	MVOLT (120V-277V) ⁴ HVOLT (347V-480V) ³⁴ XVOLT (277V-480V) ²³	Shipped included SPA Square pole mounting (#8 drilling, 3.5" min. SQ pole) RPA Round pole mounting (#8 drilling, 3" min. RND pole) SPA5 Square pole mounting (#5 drilling, 3" min. SQ pole) ³ RPA5 Round pole mounting (#5 drilling, 3" min. SQ pole) ³ RPA5 Square narrow pole mounting (#8 drilling, 3" min. SQ pole) SPA8N Square narrow pole mounting (#8 drilling, 3" min. SQ pole) WBA Wall bracket ¹⁰
introl option	5				Other options	Fi	inish (required)
Shipped insta NLTAIR2 PIRHN PIR PER PERS	I nLight AIR gen 2 er ambient sensor, 8- sensor enabled at 2 High/low, motion/ height, ambient sen NEMA twist-lock n separate) ³⁴	nabled with bi-level motion / 40' mounting height, ambient $2\xi_{\rm c}^{-11,0,20,10}$ ambient sensor, 8–40' mounting isor enabled at $2fc^{15,20,10}$ eceptacle only (controls ordered only (controls ordered separate) ^{10,19}	FAO Field a BL30 Bi-leve BL50 Bi-leve DMG 0-10v fixture ordere	pin receptacle only (controls i separate) ^{96, 19} djustable output ^{15, 19} I switched dimming, 30% ^{16, 19} I switched dimming, 50% ^{16, 19} dimming wires pulled outside (for use with an external control, d separately) ¹⁷	Shipped installed HS Houseside shield Iblack fit L90 Left rotated optics 1 R90 Right rotated optics 1 CCE Coastal Construction 11 Shipped separately EGS EGS External Glare Shield (rew required, matches housin BS Bird Spikes (field install repaired)	inish standard) ²⁰ C C C ersible, field install G finish) C	DOBXD Dark Bronze DBLXD Black DNAXD Natural Aluminum DWHXD White DOBTXD Textured dark bronze DBLXXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

General Note

COMMERCIAL OUTDOOR

- 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.

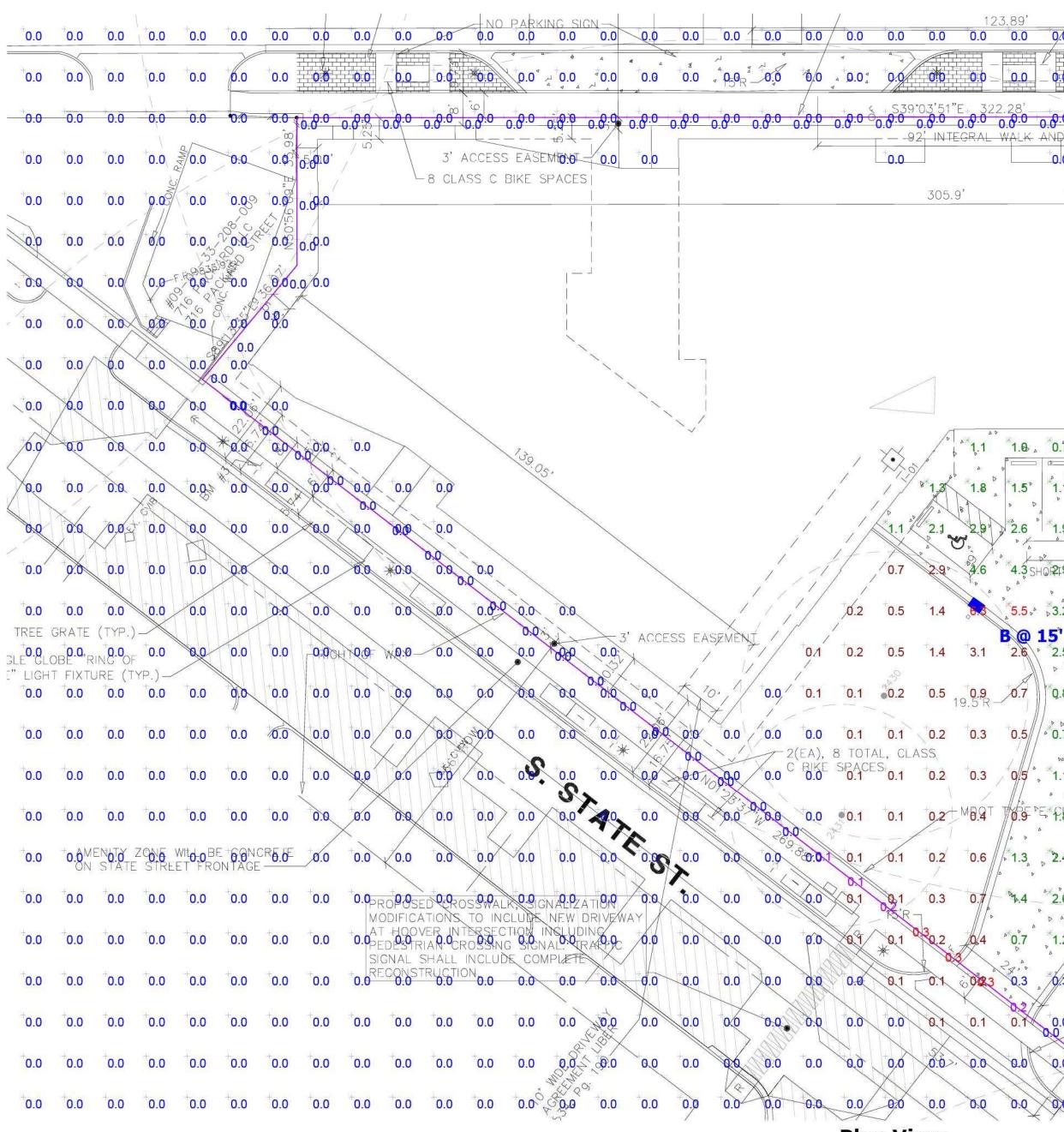
THIS DRAWING WAS GENERATED FROM AN ELECTRONIC IMAGE FOR ESTIMATION PURPOSE ONLY. LAYOUT TO BE VERIFIED IN FIELD BY OTHERS.

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

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 6:00am.



<u>Plan View</u> Scale - 1" = 20ft

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



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Designer DP/DS/KB Date 01/25/2023 rev. 10/3/2023 Scale Not to Scale Drawing No. #23-11018 V2 1 of 1



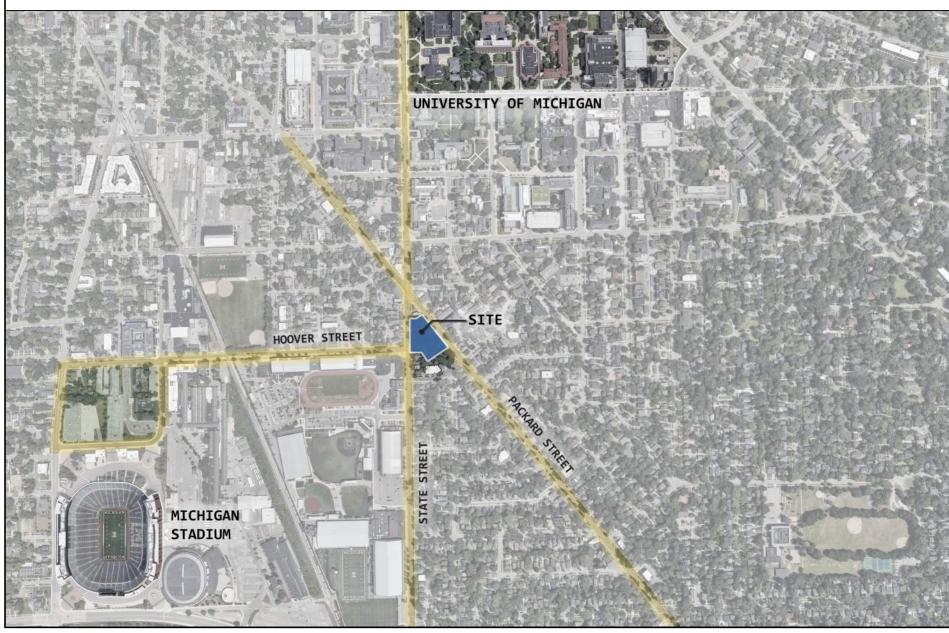
FIVE CORNERS ANN ARBOR

SITE PLAN AND REZONING SUBMISSION

PACKARD & STATE STREETS ANN ARBOR, MI 48104

JANUARY 31, 2024

VICINITY PLAN



Unit Summary	
Туре	Count
Micro	30
Studio	54
1BR	17
2BR	151
3BR	14
4BR	66
5BR	35
TH - 3BR	4
TH - 5BR	13
TH - 6BR	3
TOTAL	387

Area Summary			
Level	Gross SF	FAR Exclusions*	FAR Area
Roof (MEP Area)	2,664 sf	855 sf	1,809 sf
14	17,910 sf	1,408 sf	16,502 sf
13	28,972 sf	1,408 sf	27,564 sf
12	29,862 sf	1,408 sf	28,454 sf
11	29,862 sf	1,408 sf	28,454 sf
10	29,893 sf	1,408 sf	28,485 sf
9	33,777 sf	1,408 sf	32,369 sf
8	33,777 sf	1,408 sf	32,369 sf
7	33,777 sf	1,408 sf	32,369 sf
6	33,320 sf	1,408 sf	31,912 sf
5	33,320 sf	1,408 sf	31,912 sf
4	33,320 sf	1,408 sf	31,912 sf
3	33,432 sf	1,408 sf	32,024 sf
2	33,429 sf	1,405 sf	32,024 sf
M1	21,836 sf	1,747 sf	20,089 sf
1	31,394 sf	4,973 sf	26,421 sf
B1	36,858 sf	30,431 sf	6,427 sf
TOTAL	497,403 sf	56,307 sf	441,096 sf

Unified Development Code of the City of Ann Arbor



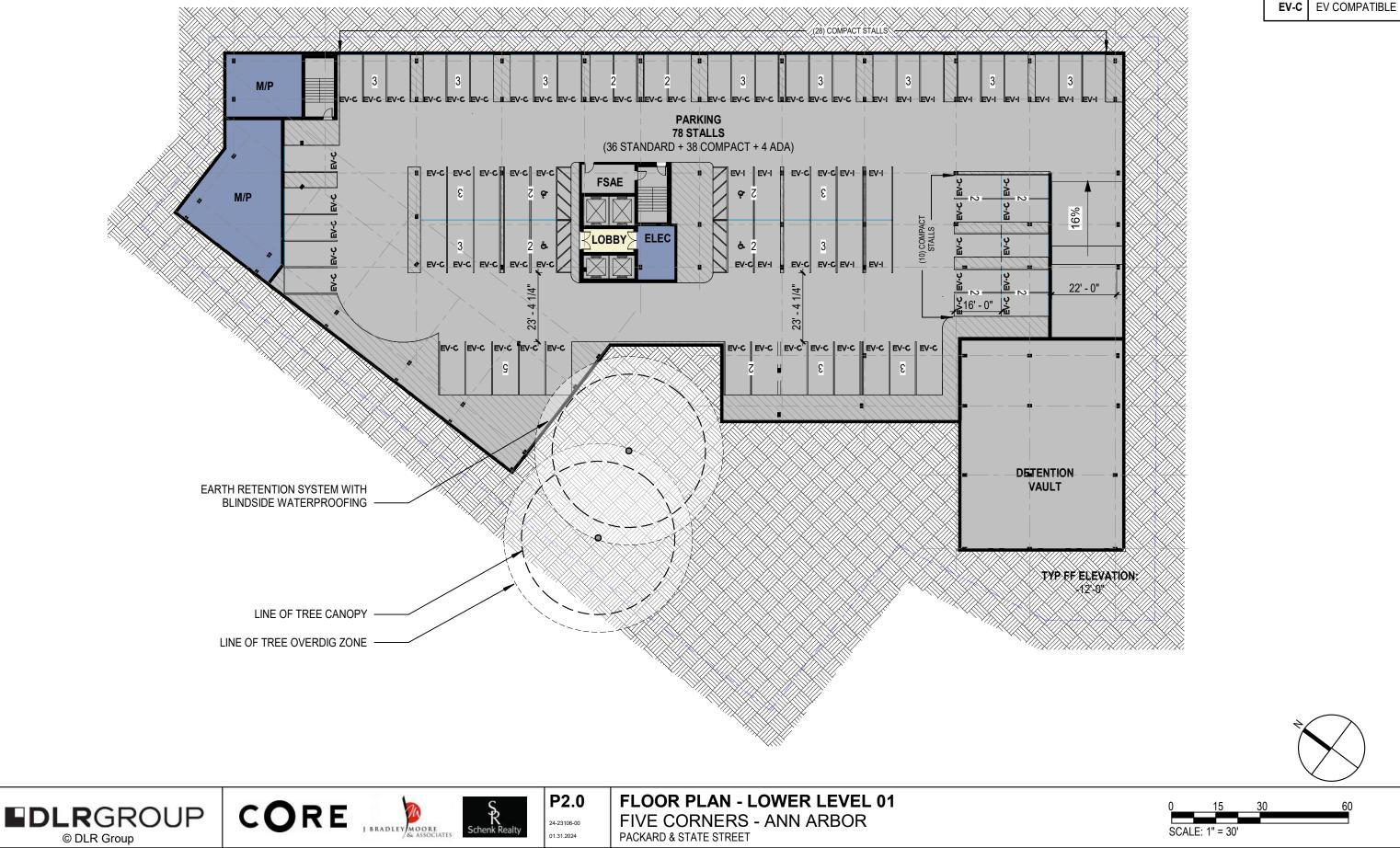




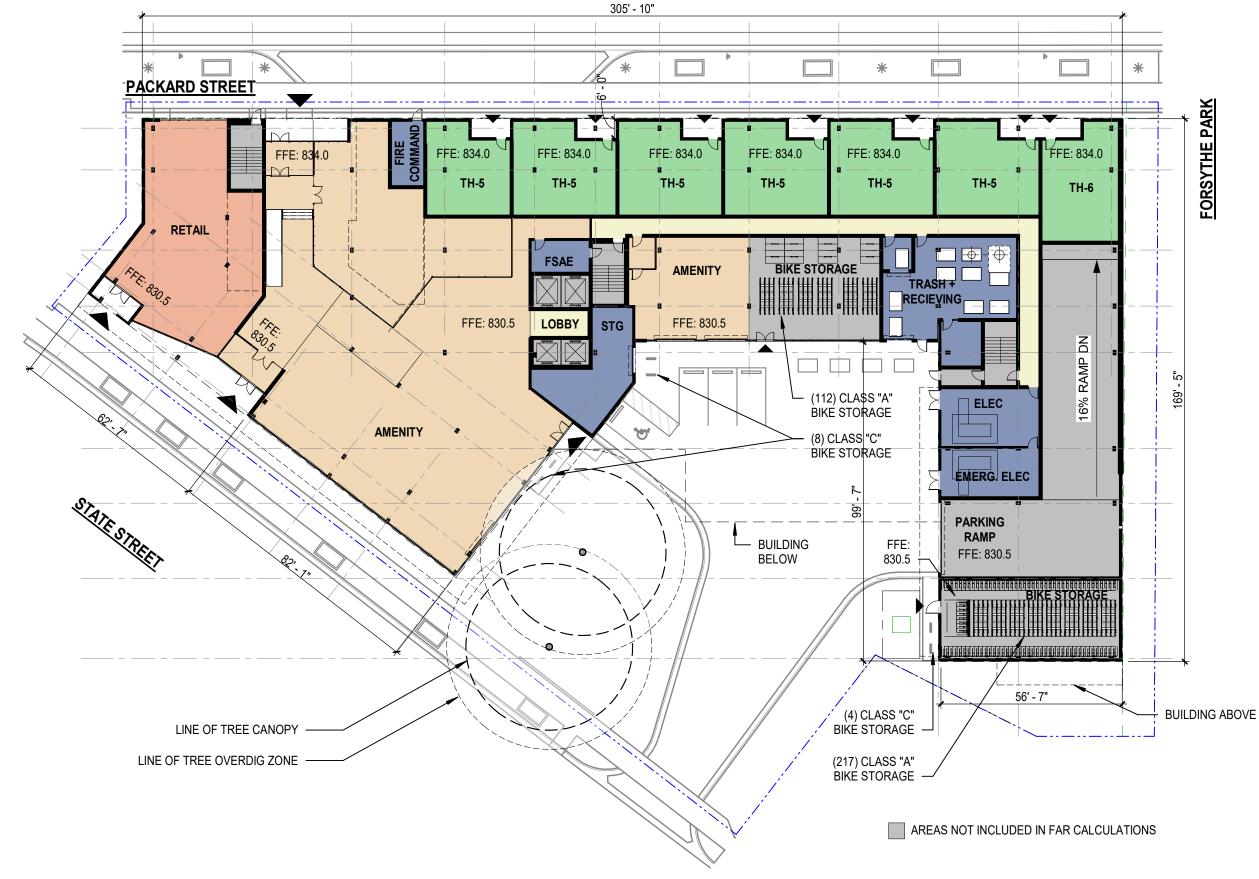
Schenk Realty

794.67%

* excludes stairwells (including landings), escalators, elevator shafts, ramps, vertical chases or chutes, and attics - as well as below grade parking per the



EV-I	EV INSTALLED
EV-C	EV COMPATIBLE



P2.1

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01.31.2024

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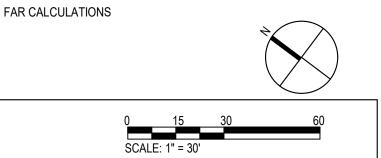
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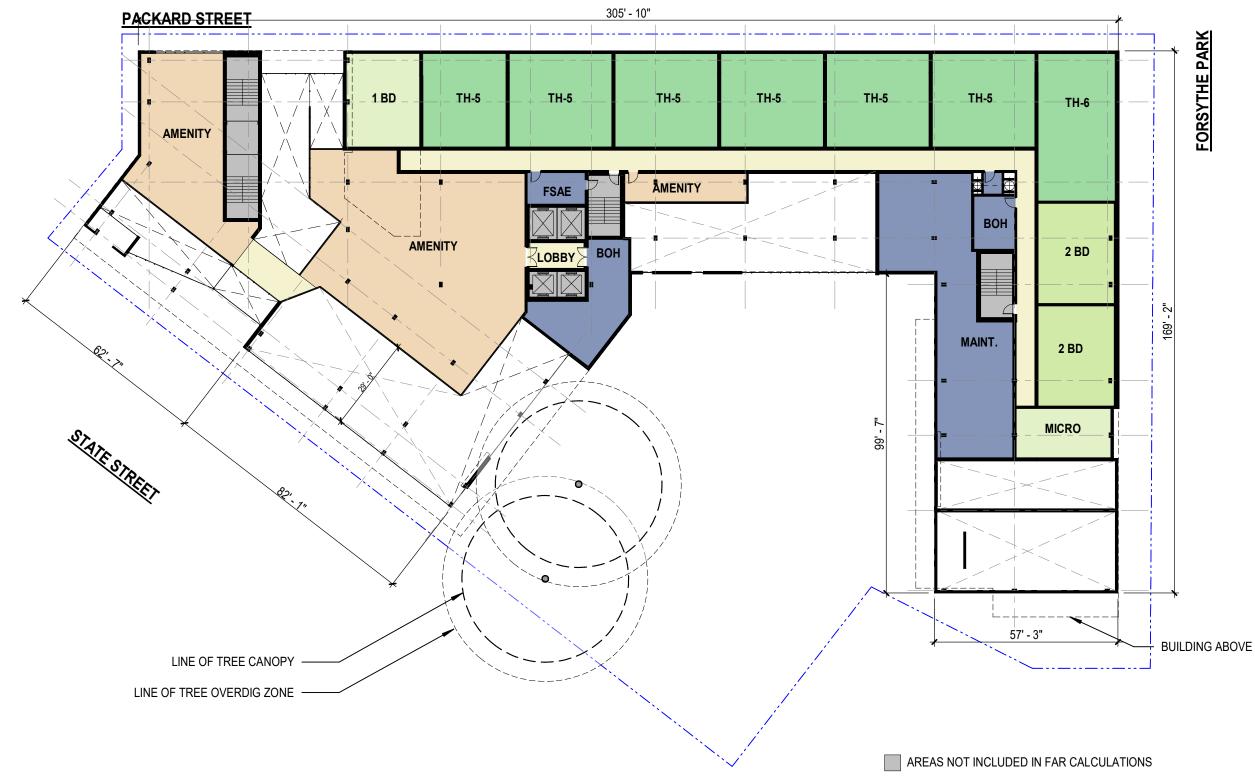
DLRGROUP

© DLR Group

J BRADLEY MOORE

FLOOR PLAN - LEVEL 01 SITE PLAN FIVE CORNERS - ANN ARBOR PACKARD & STATE STREET

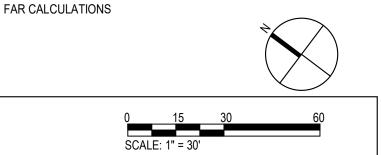






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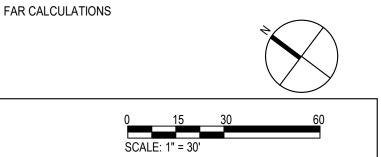




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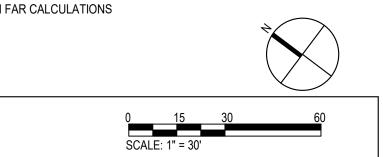




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FLOOR PLAN - LEVEL 07/09 FIVE CORNERS - ANN ARBOR PACKARD & STATE STREET

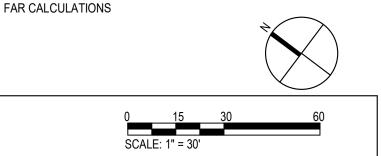
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FLOOR PLAN - LEVEL 10 FIVE CORNERS - ANN ARBOR PACKARD & STATE STREET

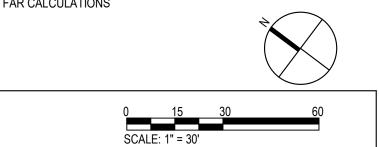
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P2.7

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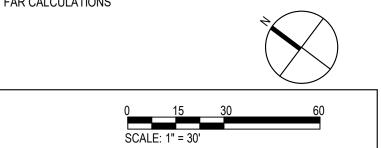
01.31.2024

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FLOOR PLAN - LEVEL 11/12 FIVE CORNERS - ANN ARBOR PACKARD & STATE STREET





FLOOR PLAN - LEVEL 13 FIVE CORNERS - ANN ARBOR PACKARD & STATE STREET

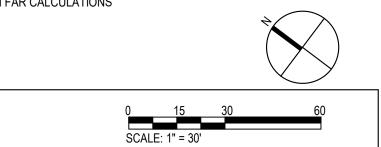
P2.8

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FLOOR PLAN - LEVEL 14 FIVE CORNERS - ANN ARBOR PACKARD & STATE STREET

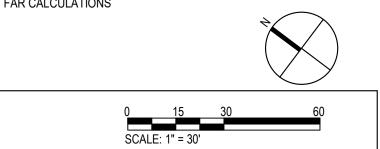
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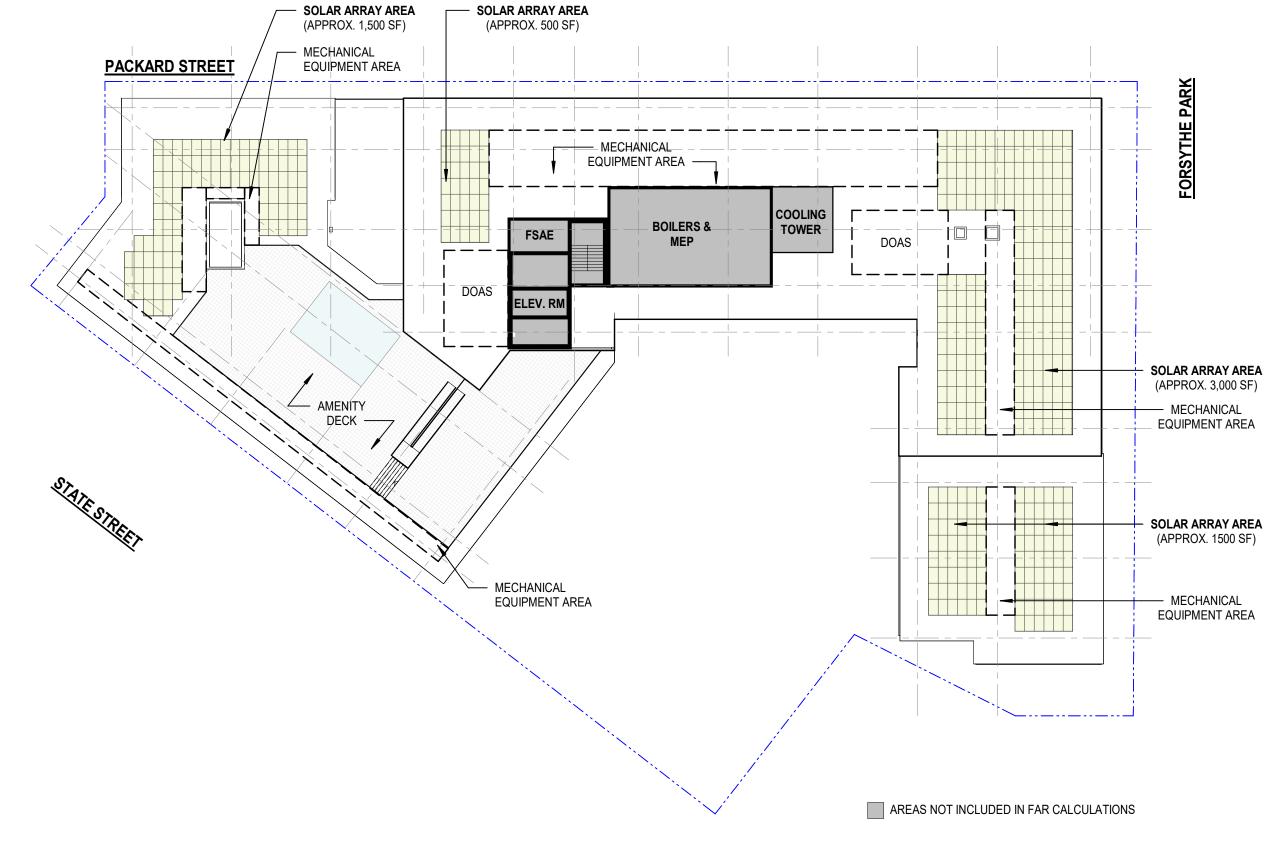
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DLRGROUP





FLOOR PLAN - ROOF FIVE CORNERS - ANN ARBOR PACKARD & STATE STREET

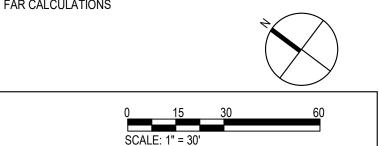
P2.10

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P3.1 SCALE: 1" = 30'-0"





P3.1

24-23106-00 01.31.2024

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AL-01	ALUMINUM & GLASS WINDOW SYSTEM
CM-01	CEMENTITIOUS CLADDING
MR-01	PUBLIC ART, TBD
MS-01	MASONRY
MT-01	WOOD LOOK METAL PANEL
MT-02	METAL PANEL SYSTEM



FIVE CORNERS - ANN ARBOR

PACKARD & STATE STREET



CORE

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24-23106-00 01.31.2024

J BRADLEY MOORE

AL-01	ALUMINUM & GLASS WINDOW SYSTEM
CM-01	CEMENTITIOUS CLADDING
MR-01	PUBLIC ART, TBD
MS-01	MASONRY
MT-01	WOOD LOOK METAL PANEL
MT-02	METAL PANEL SYSTEM





J BRADLEY MOORE

P3.3 / SCALE: 1" = 30'-0"





P3.3

24-23106-00 01.31.2024

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AL-01	ALUMINUM & GLASS WINDOW SYSTEM
CM-01	CEMENTITIOUS CLADDING
MR-01	PUBLIC ART, TBD
MS-01	MASONRY
MT-01	WOOD LOOK METAL PANEL
MT-02	METAL PANEL SYSTEM





P3.4 / SCALE: 1" = 30'-0"





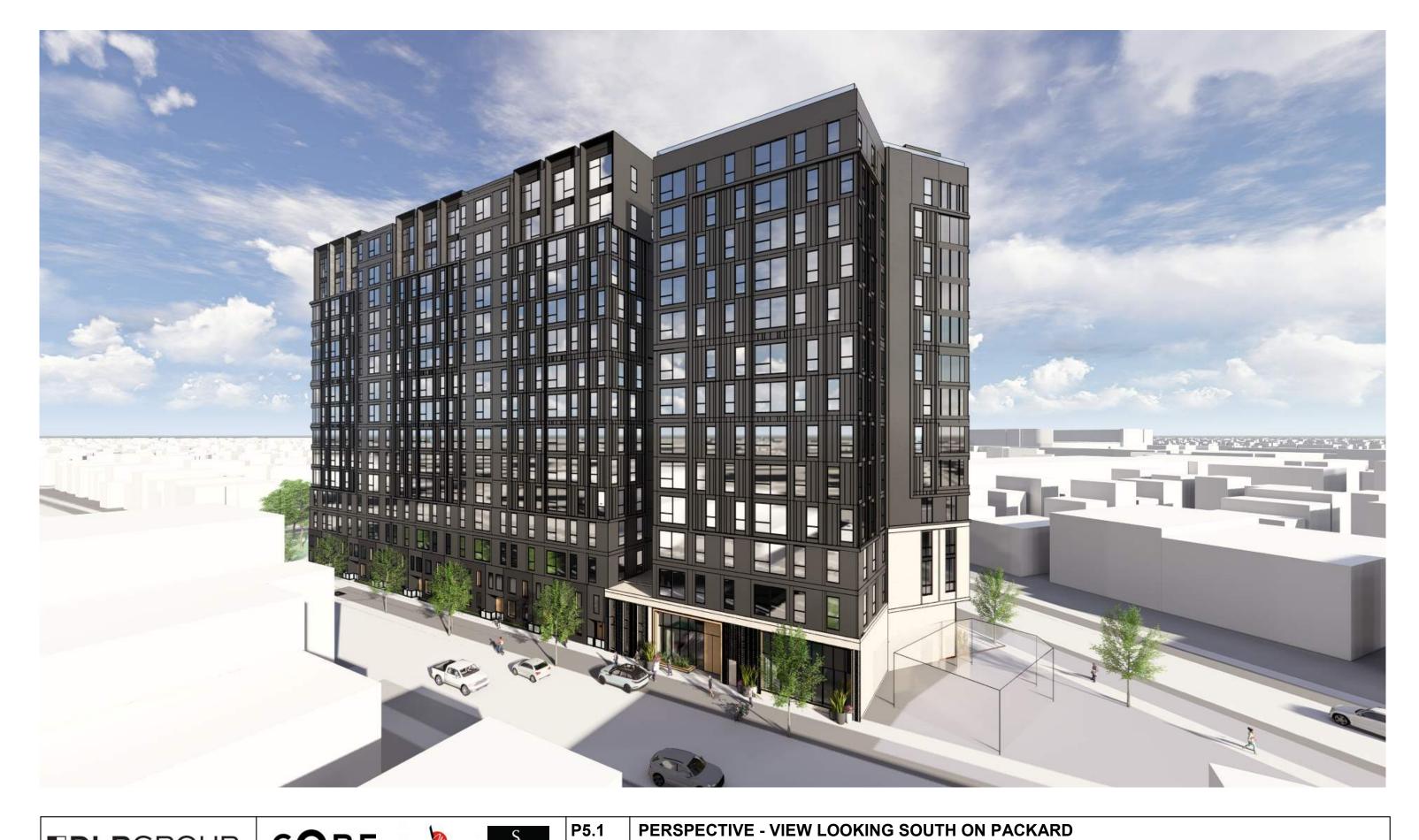
P3.4

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J BRADLEY MOORE

AL-01	ALUMINUM & GLASS WINDOW SYSTEM
CM-01	CEMENTITIOUS CLADDING
MR-01	PUBLIC ART, TBD
MS-01	MASONRY
MT-01	WOOD LOOK METAL PANEL
MT-02	METAL PANEL SYSTEM





J BRADLEY MOORE

R Schenk Realty

24-23106-00 01.31.2024





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PERSPECTIVE - VIEW OF COURTYARD ON HOOVER FIVE CORNERS - ANN ARBOR PACKARD & STATE STREET









PERSPECTIVE - VIEW LOOKING NORTH ON PACKARD FIVE CORNERS - ANN ARBOR PACKARD & STATE STREET









PERSPECTIVE - VIEW OF ENTRY ON STATE FIVE CORNERS - ANN ARBOR PACKARD & STATE STREET





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PERSPECTIVE - VIEW LOOKING SOUTH ON STATE FIVE CORNERS - ANN ARBOR PACKARD & STATE STREET

732 Packard Street PUD Supplemental Regulations - 5 Corners

SECTION 1: PURPOSE

It is the purpose of the City Council in adopting these regulations to provide for the coordinated and unified development of 12 parcels in harmonious integration with the surrounding neighborhood and presenting a unified development.

These regulations guiding redevelopment in the district will provide for a more efficient use of the property through the redevelopment of parcels within walking distance to the University of Michigan Central Campus and the City's core and near-core business and entertainment districts. The redevelopment will provide an opportunity to make available convenient, modern and sustainable housing in a manner that reduces the need for individual vehicular transportation. Furthermore, these regulations will create a district that is compatible with the surrounding districts and land uses. These regulations will arrange development in the district in an innovative and efficient manner that advances the City's land use plans and policies, and which revitalizes the neighborhood and the City as a whole.

SECTION 2: APPLICABILITY

The provisions of these regulations shall apply to the land described as follows:

BEGINNING at the Southeasterly Corner of Lot 4, Block 4 of "MAP OF HILLS ADDITION TO THE CITY OF ANN ARBOR", as recorded in Liber 60 of Deeds, Pages 134 and 135, Washtenaw County Records; thence S51°18'08"W 198.00 feet along the Southeasterly line of said Lot 4; thence N39°03'51"W 36.80 feet along the Southwesterly line of said Lot 4, thence N12°15'03"W 56.33 feet; thence S88°43'13"W 70.89 feet; thence N01°23'37"W 269.88 feet along the West line of said "MAP OF HILLS ADDITION TO THE CITY OF ANN ARBOR" and its' extension thereof, also being the East line of South State Street (66 feet wide); thence S89°13'35"E 36.07 feet; thence N50°56'09"E 35.98 feet; thence S39°03'51"E 322.28 feet along the Northeasterly line of said "MAP OF HILLS ADDITION TO THE CITY OF ANN ARBOR", also being the Southwesterly line of Packard Street (66 feet wide) to the POINT OF BEGINNING. Being part of Lots 1, 3, & 4 and all of Lot 2, Block 4 of "MAP OF HILLS ADDITION TO THE CITY OF ANN ARBOR", as recorded in Liber 60 of Deeds, Pages 134 and 135, Washtenaw County Records. Being part of the NW 1/4 of Section 33, T2S, R6E, City of Ann Arbor, Washtenaw County, Michigan and containing 1.27 acres of land, more or less.

Further, the provisions of these regulations shall be adopted and incorporated into the732 Packard Street Planned Unit Development ("PUD") zoning district. These regulations, however, are intended to supplement only those provisions in the City Codes that may be modified as a part of a PUD and shall not be construed to replace or modify other provisions or regulations in the City Code.

SECTION 3: FINDINGS

Following public hearings, the City Planning Commission and City Council find the following beneficial effects in terms of public health, safety, welfare, aesthetics, or convenience, regulated in these Supplemental Regulations, warrant the zoning; could not be achieved under any other zoning classification and are not otherwise required; do not have detrimental effects; provide adequate justification for departures from approved plans and policies; provide affordable housing with the increase in density from the underlying zoning and comprehensive plan recommendation; provide safe transportation circulation and encourage and support the use of alternative modes of transportation; and limit disturbance of existing natural, historical, and architecturally significant features to the minimum necessary to allow a reasonable use of the land:

A. Carbon Neutrality-A2 Zero.

- LEED Standards. Development of the Project will contribute to the City's goal of achieving carbon neutrality (A2Zero). The structure to be located on the Property will be constructed and developed in accordance with LEED standards.
- 2) **Integrated Solar Power.** The Project integrates solar panels into the building at the roof level, aiming to produce a portion of its energy needs with photovoltaic panels, further reducing the Project's carbon footprint and energy use from off-site sources, reducing the environmental and economic harms associated with fossil fuel energy within the community, and supporting A2Zero.
- 3) Electric Vehicle Charging Infrastructure. The Project will include 17 EV-I (installed) charging stalls, which is double the requirement under Ann Arbor City Code. Fifteen EV-I stalls will be located in the parking structure and two EV-I stalls will be located at the ground level surface parking. The remaining spaces for the Project will be EV-C (capable).
- 4) **Electric Ready Building.** Directly supporting A2Zero to promote home and business electrification, the Project is committed to being "electric ready" with

natural gas utilized only for auxiliary hot water generation and only because full electrification is not achievable given the capacity of the grid in the area.

- B. **Density; Reducing Urban Sprawl; Reduced Vehicular Travel.** The Project will continue high-density residential development in areas appropriate for such use within the City in order to increase housing options. This Project supports higher density housing near transit corridors, public transportation routes, campus education and recreational venues, and is walkable to commercial areas, such as the commercial and retail sites located on South University Avenue, S. State St., Liberty St., Church Street, and East University Avenue. The Project encourages residential densities that invite and sustain bus transit in accordance with the City's Master Plan.
- C. **Housing Affordability.** The Project requires 16% of its residential floor area dedicated to affordable housing dwelling units, which is one percent more than the standard for approval for PUD Zoning Districts.
- D. **Streetscape Activation.** The Project includes a ground-level auto court limited to pedestrian use and programmed with food trucks and social activities providing activity that does not current exists, in addition to ground floor retail uses and townhouses with front porches directly to the public sidewalk to activate the streetscape.
- E. **Neighborhood Park Improvements.** Proposed improvements to adjacent Forsythe Park.

SECTION 4: PUD REGULATIONS

The standards and regulations provided below shall regulate development in the 732 Packard PUD district using the terms, definitions, interpretations, and applicability set forth in Chapter 55, Unified Development Code. All of the standards and regulations provided in the UDC shall also apply unless specifically provided in these Supplemental Regulations.

- A. **Permitted Uses.** The permitted uses shall be as provided in Section 5.15 of the Unified Development Code for the C1A/R district, plus Temporary Outdoor Activities use as defined in the Unified Development Code. Only residential uses shall be permitted above the third story.
- B. Development Standards
 - 1) <u>Height</u>: The minimum building height shall be six stories. The maximum building height shall be 15 stories and 200 feet.
 - 2) **Building Coverage and Open Space**: The maximum building coverage shall be 70%. The minimum open space shall be 20%.

3) **Setbacks:** The minimum setback from any front lot line shall be 5 feet, provided there is at least 16 feet between the back of curb and building. The minimum side or rear setback shall be 5 feet.

C. Parking

- 1) **<u>Vehicle</u>**: The maximum number of vehicle parking spaces shall be 82.
- <u>Bicycle</u>: The minimum number of bicycle parking spaces shall be one Class A space per dwelling unit and no less than 329. Of the provided bicycle parking spaces, a minimum of 5% shall be capable of recharging electric bicycles and at least two shall be sized to accommodate cargo bicycles.
- 3) <u>Electric Vehicle Charging</u>: A minimum of 20% of the vehicle parking spaces shall be EV-I (electric vehicle [charging station] installed).

D. Landscaping, Buffers, and Screening

- <u>Vehicular Use Area Landscaping</u>: As required in Section 5.20 of the Unified Development Code.
- <u>Right-of-Way Screening</u>: As required in Section 5.20 of the Unified Development Code.
- 3) <u>Buffer</u>: A buffer shall be provided adjacent to residential uses as follows: the entire width between the building and any paved area, and the district boundary; at least four deciduous trees are planted; and a continuous row of shrubs at least four feet in height are planted.

E. Sustainability

- <u>LEED Silver</u>. The building shall achieve the Silver level of the U.S. Green Building Council Leadership in Energy and Environmental Development (LEED) Certification for new construction, version 4.1. Proof of registration is required at the time of building permit issuance and documentation of certification shall be provided prior to receiving any certificate of occupancy.
- 2) <u>Electrification</u>. Building(s) in the district shall utilize natural gas connections only for auxiliary hot water generation and only because full electrification is not achievable given the grid capacity at the time of approval. Conduit and other necessary infrastructure for future conversions to full electrification once available shall be provided.
- 3) **<u>Renewable Energy</u>**. A minimum of 125,000 kwh of capacity shall be generated in the district from solar energy panels.
- F. **Affordable Housing.** A minimum of 16% of the residential floor area in the district shall be dedicated to Affordable Housing for Lower Income Households as defined in Chapter 55 of Ann Arbor City Code, which shall be made available for

lease or sale to eligible households consistent with City ordinances, policies and regulations regarding affordable housing, and under such negotiated terms reasonably acceptable to the City and the Property owner. Payment of a cash contribution in lieu of affordable housing may be made at the sole discretion of the City Council in the amount established by Council resolution at the time of payment is made.

G. Streetscape Activation.

- 1) **<u>Residential Front Doors.</u>** A minimum of six townhouses shall be provided at street-level with direct front door access to Packard Street.
- 2) **<u>Retail Activity.</u>** A minimum of 2,000 square feet of street-level retail space shall be made available with a minimum interior height of 15 feet.
- 3) **<u>Outdoor Activities.</u>** A minimum of 4,000 square feet shall be provided and made available for temporary outdoor activities.
- H. **Park Improvements.** Repairs, improvements, and new amenities shall be provided to adjacent Forsythe Park, which may include: removing the existing kiosk; removing existing wood retaining walls and restoring the area; repairing or replacing pavers and pavement; replacement of drinking fountains, furnishings and lighting; and repairs or replacement of basketball court surface, backboards and nets.

732 Packard ("5 Corners") PUD DEVELOPMENT AGREEMENT

THIS AGREEMENT, made this [--] day of [Month], [Year], by and between the City of Ann Arbor, a Michigan municipal corporation, with principal address at 301 East Huron Street, Ann Arbor, Michigan 48107, hereinafter called the CITY; and CS Acquisition Vehicle, LLC, a Limited Liability Corporation, with principal address at 1643 North Milwaukee Avenue, Chicago, Illinios, 60647, hereinafter called the DEVELOPER, witnesses that:

WHEREAS, the DEVELOPER owns certain land in the City of Ann Arbor, described below and site planned as 732 Packard "5 Corners", and

WHEREAS, the DEVELOPER has caused certain land in the City of Ann Arbor, described below to be surveyed, mapped and site planned as 732 Packard "5 Corners", and desires PUD Site Plan and development agreement approval thereof, and

WHEREAS, the DEVELOPER desires to build or use certain Improvements with and without the necessity of special assessments by the CITY, and

WHEREAS, the CITY desires to ensure that all of the Improvements required by pertinent CITY ordinances and regulations be properly made, and that the DEVELOPER will install these Improvements prior to any permits being issued.

THE DEVELOPER(S) HEREBY AGREE(S):

(P-1) To prepare and submit to the CITY for approval plans and specifications ("the Plans") prepared by a registered professional engineer for construction of public water main, private storm water management system, public street restoration, public sidewalk and amenity zone pavement, traffic signals and street lights ("the Improvements") provided that no work on said Improvements shall be commenced until the Plans have been approved by the City Administrator or designee, and until such other relevant information to CITY service areas as shall be reasonably required has been provided.

(P-2) To construct all Improvements set forth in Paragraph P-1 of this Agreement in accordance with the approved Plans and to repair all defects in the Improvements that occur within one year from the date of acceptance of the Improvements by the CITY, commencing on the latest date of the acceptance of any Improvements by the CITY. If the DEVELOPER fails to construct the Improvements, the CITY may send notice via first class mail to the DEVELOPER at the address listed above requiring it to commence and complete the Improvements in the notice within the time set forth in the notice. The CITY may cause the work to be completed at the expense of the DEVELOPER, if the DEVELOPER does not complete the work within the time set forth in the notice. Every owner of a portion of the property, including co-owners of condominium units, shall pay a pro-rata share of the cost of the work. That portion of the cost of the work attributable to each condominium unit shall be a lien on that Property and may be

collected as a single tax parcel assessment as provided in Chapter 13 of the Ann Arbor City Code.

(P-3) To furnish, within 30 days of completion, an engineer's certificate that the construction of the private Improvements set forth in Paragraph P-1 above have been completed in accordance with the specifications of the CITY in accordance with the approved plans. The engineer's certificate will cover only those items the DEVELOPER'S engineer inspects.

(P-4) To grant an easement to the CITY for three-foot sidewalk easements across the Packard Street and South State Street frontages as shown on the Site Plan, subject to City Council approval. DEVELOPER shall submit legal descriptions and survey drawings for the easements prior to the request for and issuance of building permits, and the easements shall be granted to the CITY in a form reasonably acceptable to the CITY Attorney. The easements must be accepted by City Council prior to the request for and issuance of any temporary or final certificate of occupancy, although the easements may be accepted at a later time as determined by the CITY Public Services Area.

(P-5) To be included in a future special assessment district, along with other benefiting property, for the construction of additional Improvements to South State Street and/or Packard Street ,such as street widening, storm sewers, curb and gutter, sidewalks, bike paths, street lights, and the planting of trees along South State Street and/or Packard Street frontage when such Improvements are determined by the CITY to be necessary.

(P-6) To indemnify, defend and hold the CITY harmless from any claims, losses, liabilities, damages or expenses (including reasonable attorney fees) suffered or incurred by the CITY based upon or resulting from any acts or omissions of the DEVELOPER, its employees, agents, subcontractors, invitees, or licensees in the design, construction, maintenance or repair of any of the Improvements required under this Agreement and the approved site plan.

(P-7) To cause to be maintained General Liability Insurance and Property Damage Insurance in the minimum amount of \$1,000,000 per occurrence and naming the CITY as additional insured to protect and indemnify the CITY against any claims for damage due to public use of the public improvement(s) in the development prior to final written acceptance of the public improvement(s) by the CITY. Evidence of such insurance shall be produced prior to any construction of improvement and a copy filed with the City Clerk's Office and shall remain in full force and effect during construction of the public improvement(s) and until notice of acceptance by the CITY of the Improvements.

(P-8) For the benefit of the residents of the DEVELOPER'S development, to prepare and submit to the CITY for approval plans and specifications to improve Forsythe Park up to \$250,000.00 in material and labor value, including removing the existing kiosk, removing existing wood retaining walls and restoring the area, pavers and pavement work, drinking fountain replacement, furnishing repairs and replacement, lighting repairs and replacement, and basketball court surface, backboard, and net repairs and replacement provided that no work shall be commenced until the plans and specifications have been approved by the City Administrator or designee and until such other relevant information to the CITY service areas as shall be reasonably required has been provided.

(P-9) To construct the work set forth in Paragraph P-8 of this Agreement in accordance with the approved plans prior to the issuance of certificates of occupancy.

(P-10) To construct, repair and/or adequately maintain on-site storm water management system. If the DEVELOPER fails to construct, repair and/or maintain the private storm water management system, the CITY may send notice via first class mail to the DEVELOPER at the address listed above, requiring it to commence and complete the items stated in the notice within the time set forth in the notice. The CITY may cause the work to be completed at the expense of the DEVELOPER if the DEVELOPER does not complete the work within the time set forth in the notice.

(P-11) After construction of the private on-site storm water management system, to commission an annual inspection of the system by a registered professional engineer evaluating its operation and stating required maintenance or repairs, and to provide a written copy of this evaluation to the CITY Public Services Area.

(P-12) Prior to the issuance of any grading or building permits for the Site Plan, fo the benefit of the Property and in order to comply with Ann Arbor City Code requirements for site access and traffic impacts of the Project on nearby roads, to enter into an agreement with the CITY detailing specific public improvements ("Traffic Mitigation Improvements") to be made in order to mitigate access and traffic impacts of the development. The Traffic Mitigation Improvements as shown on the Site Plan, as further specified in civil construction plans, shall include rebuilding the traffic signal(s) controlling the intersection of South State Street at Hoover Street to accommodate the Project driveway. All Traffic Mitigation Improvements shall be constructed consistent with all applicable laws and standards, and shall include all work necessary to restore impacted intersections, streets, sidewalks, and other public infrastructure. The final design and civil construction drawings for Traffic Mitigatino Improvements shall be completed by the DEVELOPER, and the Improvements shall be constructed by the DEVELOPER. All design, review and construction costs for the Traffic Mitigation Improvements shall be paid for by the DEVELOPER, and payment to the CITY shall be prior to the request for and issuance of any first certificate of occupancy for the Project, although Traffic Mitigation Improvements may be accepted at a later time as determined by the City Public Services Area.

(P-13) To design, construct, repair and maintain this development in accordance with the provisions of Chapter 119 (Noise Control) to ensure that any noise emanating from said development will not impact nearby residents or businesses. In addition, DEVELOPER shall review existing noise sources surrounding said development and incorporate necessary design and construction techniques to ensure that future tenants will not be exposed to noise sources in violation of Chapter 119.

(P-14) To include the elevation drawings, as submitted to City Council, as part of the approved site plan and to construct all buildings consistent with said elevation drawings. If the DEVELOPER proposes any substantive changes to the approved building elevations, setbacks, aesthetics, or materials, that those changes be brought back to the City Council for consideration. The DEVELOPER is required to submit signed and sealed drawings to staff reflecting the elevations, setbacks, aesthetics, materials and site plan approved by City Council.

(P-15) To remove all discarded building materials and rubbish from the development at least once each month during construction of the development Improvements, and within one month after completion or abandonment of construction.

(P-16) As part of the application for the first building permit, to provide documentation from an independent, qualified professional that verifies the building has been designed to achieve Silver level certification from the U.S. Green Building Council Leadership in Energy and Environmental Design (LEED), Version 4.1. Compliance with this requirement shall be verified and documented by the independent, qualified professional using an industry standard software energy modeling tool (EQUEST or equivalent). Proof of registration is required at the time of building permit issuance and documentation of LEED Silver certification shall be provided prior to receiving any certificate of occupancy.

(P-17) To provide partial solar power for the Project by installing solar panels to produce a minimimum rated capacity of 125,000 kWh per year, in operation prior to the request for or issuance of any certificate of occupancy.

(P-18) Prior to the issuance of the first certificate of occupancy, to pay to the CITY an affordable housing contribution of \$6,620,604.00 to be deposited in the City of Ann Arbor Affordable Housing Fund in compliance with Ann Arbor City Code and the approved Supplemental Regulations for the Property, unless prior to the issuance of such certificate of occupancy the CITY and DEVELOPER have agreed on a plan for DEVELOPER constructing at least 16% of the residential floor area as Affordable Housing for Low Income Households as defined in Ann Arbor City consistent with the approved Supplemental Regulations for the Property.

(P-19) DEVELOPER is the sole title holder in fee simple of the land described below except for any mortgage, easements and deed restrictions of record and that the person(s) signing below on behalf of DEVELOPER has (have) legal authority and capacity to enter into this Agreement for DEVELOPER.

(P-20) Failure to construct, repair and/or maintain the site pursuant to the approved site plan and/or failure to comply with any of this approved Agreement's terms and conditions shall constitute a material breach of the Agreement and the CITY shall have all remedies in law and/or in equity necessary to ensure that the DEVELOPER complies with the approved site plan and/or the terms and conditions of the approved Agreement. The DEVELOPER shall be responsible for all costs and expenses including reasonable attorney fees incurred by the CITY in enforcing the terms and conditions of the approved site plan and/or Agreement.

(P-21) In addition to any other remedy set forth in this Agreement or in law or equity, if DEVELOPER fails to make a timely or full payments to the CITY as set forth elsewhere in the Agreement to the CITY in the agreed upon manner, any unpaid amount(s) shall become a lien, as provided under Ann Arbor City Code and recorded with the Washtenaw County Register of Deeds, against the land described below and may be placed on the CITY tax roll as a single lot assessment, or if the development is converted to condominium ownership, every owner of a portion of the property shall pay a pro-rata share of the amount of the payments attributable to each condominium unit. If the unpaid amount(s), in whole or in part, has been recorded as a lien on the CITY'S tax roll and with the Washtenaw County Register of Deeds, upon payment of the amount in full along with any penalties and interest, the CITY, upon request, will execute an instrument in recordable form acknowledging full satisfaction of this condition.

(P-22) To pay for the cost of recording this Agreement with the Washtenaw County Register of Deeds, and to pay for the cost of recording all documents granting easements to the CITY.

THE CITY HEREBY AGREES:

(C-1) In consideration of the above undertakings, to approve the 732 Packard "5 Corners" Site Plan.

(C-2) To provide timely and reasonable CITY inspections as may be required during construction.

(C-3) To record this Agreement with the Washtenaw County Register of Deeds.

GENERAL TERMS

Both the DEVELOPER and the CITY agree as follows:

(T-1) This Agreement is not intended to create a contractual right for third parties.

(T-2) This Agreement and any of its terms, conditions, or provisions cannot be modified, amended, or waived unless in writing and unless executed by both parties to this Agreement. Any representations or statements, whether oral or in writing, not contained in this Agreement shall not be binding on either party.

(T-3) This Agreement and any of its terms or conditions shall not be assigned or transferred to any other individual or entity unless DEVELOPER provides the CITY with prior notice. Notwithstanding the foregoing, DEVELOPER is permitted to collaterally assign this Agreement to its mortgage lender without prior notice to the CITY, and any transfers of this Agreement in connection with such mortgage lender's rights shall not be prohibited hereunder.

(T-4) The obligations and conditions on the DEVELOPER, as set forth above in this Agreement and in the approved site plan, shall be binding on any successors and assigns in ownership of the following described parcel:

BEGINNING at the Southeasterly Corner of Lot 4, Block 4 of "MAP OF HILLS ADDITION TO THE CITY OF ANN ARBOR", as recorded in Liber 60 of Deeds, Pages 134 and 135, Washtenaw County Records; thence S51°18'08"W 198.00 feet along the Southeasterly line of said Lot 4: thence N39°03'51"W 36.80 feet along the Southwesterly line of said Lot 4, thence N12°15'03"W 56.33 feet; thence S88°43'13"W 70.89 feet; thence N01°23'37"W 269.88 feet along the West line of said "MAP OF HILLS ADDITION TO THE CITY OF ANN ARBOR" and its' extension thereof, also being the East line of South State Street (66 feet wide); thence S89°13'35"E 36.07 feet; thence N50°56'09"E 35.98 feet; thence S39°03'51"E 322.28 feet along the Northeasterly line of said "MAP OF HILLS ADDITION TO THE CITY OF ANN ARBOR", also being the Southwesterly line of Packard Street (66 feet wide) to the POINT OF BEGINNING. Being part of Lots 1, 3, & 4 and all of Lot 2, Block 4 of "MAP OF HILLS ADDITION TO THE CITY OF ANN ARBOR", as recorded in Liber 60 of Deeds, Pages 134 and 135, Washtenaw County Records. Being part of the NW 1/4 of Section 33, T2S, R6E, City of Ann Arbor,

Washtenaw County, Michigan and containing 1.27 acres of land, more or less.

City of Ann Arbor, Washtenaw County, Michigan

(T-5) In addition to any other remedy in law or in equity failure to comply with all of the above paragraphs on the part of the DEVELOPER, or any part of the approved site plan, in part or in whole, shall give the CITY adequate basis and cause to issue a stop work order for any previously-issued building permits and shall be an adequate basis and cause for the CITY to deny the issuance of any building permits, certificates of occupancy, or any other permits unless and until the CITY has notified the DEVELOPER in writing that the DEVELOPER has satisfactorily corrected the item(s) the DEVELOPER has failed to perform.

(T-6) This Agreement shall be interpreted, enforced and governed under the laws of the State of Michigan and Ann Arbor City Code. DEVELOPER submits to the personal jurisdiction of any competent court in Washtenaw County, Michigan, for any action arising out of this Agreement. DEVELOPER also agrees that no action will be commenced against the City because of any matter arising out of this Agreement in any courts other than those in the County of Washtenaw, State of Michigan, unless original jurisdiction can be established in the United States District Court for the Eastern District of Michigan, Southern Division, the Michigan Supreme Court, or the Michigan Court of Appeals.

CITY OF ANN ARBOR, MICHIGAN 301 East Huron Street Ann Arbor, Michigan 48107

By:

Christopher Taylor, Mayor

By:

Jacqueline Beaudry, City Clerk

Approved as to Substance:

Milton Dohoney Jr., City Administrator

Approved as to Form:

Atleen Kaur, City Attorney

CS Acquisitions Vehicle, LLC

By: [Name, Title]

STATE OF MICHIGAN)
) ss:
County of Washtenaw)

P.O. Box 8647

Ann Arbor, MI 48107-8647

The foregoing instrument was acknowledged before me this _____ day of _____, 20__ by Christopher Taylor, Mayor, and Jacqueline Beaudry, Clerk of the City of Ann Arbor, a Michigan municipal corporation, on behalf of the corporation.

> NOTARY PUBLIC County of Washtenaw, State of Michigan My Commission Expires: Acting in the County of Washtenaw

STATE OF)	
) ss: County of)
The foregoing instrument was acknowledged before,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ore me this day of, 20 by of, a
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	NOTARY PUBLIC County of, State of My Commission Expires: Acting in the County of
DRAFTED BY AND AFTER RECORDING RETURN TO: Kevin S. McDonald (P-61761) Chief Deputy City Attorney City of Ann Arbor Office of the City Attorney	