



Fox Point-Bayside School District
7300 North Lombardy Road
Fox Point, WI 53217
Phone: (414) 247-4162

Dear Village of Bayside Leaders:

Thanks to the generosity of our Fox Point and Bayside community members who supported a capital referendum earlier this year, students of this community will have the opportunity to learn in a brand new, Middle School facility starting as early as the fall of 2024, for the 2024-25 school year.

We have a tremendous, yet somewhat urgent schedule, to design a state-of-the-art Middle School for our community and we are committed to “getting it right” for both the students and the neighbors. Though a middle school has been on this property since 1957 and many neighbors moved into this neighborhood intentionally for its proximity to the schools, a building, buses and cars are all part of the necessary ecosystems of schools. We understand that a few select neighbors that border the property may have objections, but the reality is that these components need to exist, and that an alternative solution may just shift them to a different side of the property bordering other neighbors or further detract from the amount of available outdoor educational spaces.

In short, I want to assure you that many, many hours have been spent reviewing many, many options by professionals, engineers, architects, school officials, city officials, first responders (Police and Fire), stormwater experts, administrators and neighbors. We believe we have found positive solutions to just about every concern identified by this body. What we are presenting to you today hopefully demonstrates the thoughtful consideration poured into the recommended plans.

Our community loves our schools for many reasons, but one of the reasons is that they are integrated into our neighborhoods. This benefit also may pose challenges for those who have chosen to live immediately adjacent to school grounds, but we hope you see and understand the considerations put into each configuration presented in this packet. Ultimately, our ask tonight is that you move forward with the recommended plans as another delay will prevent hundreds of young learners from benefiting from the new middle school for another academic year.

In the attached pages, please find our considerations for each site configuration.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Jeff Dellutri".

Jeff Dellutri
Superintendent of Schools
Fox Point-Bayside School District

Specific Recommendations:

- We believe that we have come to a positive resolution on the **King Road Alternate Bus Lane Option** (bus lane on school district property, east of the right of way). The bus lane is no longer west of the right of way and adjacent to King Rd. Landscaping elements will provide screening of the bus staging area. The stormwater ditch along King Rd returns.
- We believe that we have come to a positive resolution on the **King Road concern** regarding the less robust sub-base and asphalt surface conditions. It was suggested, and the District is happy to pursue, a shared maintenance agreement for King Rd similar to what the Village has in place with Schlitz Audubon Nature Center.
- We agree that concerns about the **double loop east parking lot option** (both cars and buses east of the building) are valid. We feel the concept is no longer worth pursuing and has been dropped from further consideration.
- In order to further address the **concern about traffic congestion on E. Ellsworth Lane**, we have agreed to pursue the following solution with the guidance of Village engineers and planning staff: the plan is to create dual entry lanes off Ellsworth on the drive leading up to the parking area, along with one exit lane. This solution is estimated to accommodate 20 additional cars. The general concept is to eliminate/limit vehicular conflict at the King and Ellsworth intersection.
- Lastly, representatives from the Village of Bayside and the school district reviewed a number of alternate concepts for **bus load and unload locations**. The school district is not recommending these concepts, as they are less ideal than the proposed load and unload location. We discuss them here, to detail the cooperation and brainstorming for solutions the team considered and thorough consideration of alternatives.

The several alternate concepts for bus load/unload location discussed, but not recommended are:

Concept explored - A: Expand the walking/bicycle path width into a bus entry from N. Maitland Rd and create a drive along the southern edge of the property to King Rd with load/unload occurring adjacent to the building before students exiting to the northwest, and buses departing on King Rd to the north. To accommodate this and not lose educational enhancements proposed for students, the outdoor education space south of the middle school from the original plan would be moved to the new middle school west entrance on King Rd.

Why this isn't the best option for students or neighbors: This option was not recommended as students would be further and less convenient for students from the west or east entrances to the building. This option also likely will result in additional concern by neighbors to the south, shifting the concern about the location of school buses from one set of residents to another set of residents.

Concept explored - B: Entry at the service drive apron on King Rd, load/unload at the gym entry, loop to the north and then back west (encircling the ball field). This option might require switching positions of the hardscape playground features with the ball field to make everything fit safely.

Why this isn't the best option for students or neighbors: This option was not recommended as it would consume valuable green physical education/play/community use space on an already confined site. The service lane is not long enough for all buses and would require double stacking of buses, which is a dangerous condition for student movement. There is also a significant grade change from the service drive into the play area/ball field. It would also move the student bus entry/exit to the gym area rather than the west bus entry and create issues with coverage of student supervision and create a less safe environment inside the school at the start and end of the school day.

Concept explored - C (Not Drawn): Entry at the service drive apron on King Rd, load/unload at the gym entry and continue east to the parking lot and then join car traffic to exit on Ellsworth.

Why this isn't the best option for students or neighbors: This option is not explored further due to traffic conflicts on site. First, the service lane is not long enough for all buses and would require double stacking of buses. Next, the car traffic reduction measures discussed earlier on E. Ellsworth Lane (dual entry lanes) would be eliminated. It also creates one center lane of incoming traffic from Ellsworth and two outer lanes of outgoing traffic to Ellsworth Lane (one bus lane to the west of the center lane and one car lane east of the center lane). This option would also move the student bus entry/exit to the gym area rather than the west bus entry and create issues with coverage of student supervision and create a less safe environment.

Recommended Concept:

During the months of January and February 2023, the Village of Bayside staff and consultants and the Fox Point-Bayside School District staff and consultants met 5 times. Additionally on March 1, 2023, the Village of Bayside staff and consultants and the Fox Point-Bayside School District staff and consultants worked and solved the stated issues:

1. Too much traffic on the streets – initially increased on-site auto staging from 12 to 60 vehicles.
2. We learned that in the eyes of the Village, there was still not enough traffic off the streets. We agreed to spend more money to widen the on-site drive to include dual entry lanes from E. Ellsworth Lane.
3. We increased on-site parking stalls from 87 to 123 to avoid parking spill-over to Ellsworth Park and/or onto the shoulders of Village roads.
4. We made significant improvements to stormwater management designed to meet current standards.
5. We agreed to reroute sanitary sewer lines.
6. We are working to reduce the amount of impervious surfaces across the site to below 40%
7. We moved the bus lane out of the right of way (ROW) and completely onto school district property.
8. We accomplished maintaining the King Road ditch.
9. We agreed to create a shared King Road maintenance agreement in anticipation of additional bus traffic impacting the maintenance of King Road.
10. We are willing to install a fence to the south of the school building along the property line with the south neighbors.

RECOMMENDED CONCEPT

Use of 10 buses expected upon opening of the proposed school

Buses turn left and head west on Ellsworth Lane until Regent St. where they can go north or south

All buses depart to the north on King Rd at designated dismissal time to minimize traffic conflicts

All buses arrive from the south on King Rd

265 kids enter/exit west doors to buses

120 kids enter/exit to passenger vehicles

90 kids total exit/enter on foot or by bike

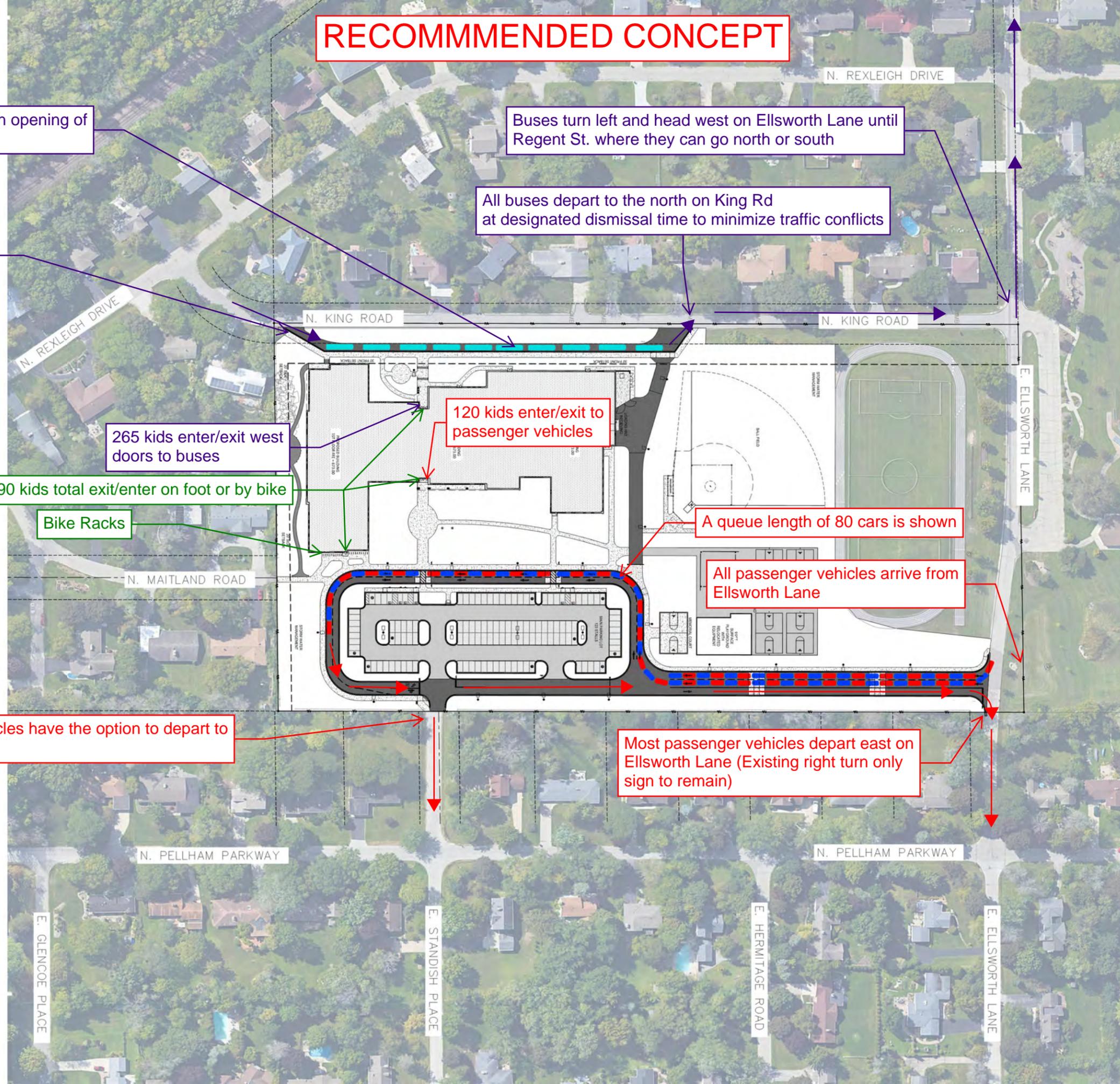
Bike Racks

A queue length of 80 cars is shown

All passenger vehicles arrive from Ellsworth Lane

Passenger vehicles have the option to depart to Standish Place

Most passenger vehicles depart east on Ellsworth Lane (Existing right turn only sign to remain)



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E madison 380 West Johnson Street, Suite 202
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608.442.5500
denver 1800 Wykrop Street, Suite 700
Denver, Colorado 80202
303.955.4500

PROJECT INFORMATION
BAYSIDE MIDDLE SCHOOL

D 601 E ELLSWORTH LN, BAYSIDE, WI 53217

ISSUANCE AND REVISIONS

DATE	DESCRIPTION
09/19/2022	50% DESIGN DEVELOPMENT
11/18/2022	75% DESIGN DEVELOPMENT
11/28/2022	ARC SUBMISSION
12/09/2022	100% DESIGN DEVELOPMENT
01/18/2023	ARC SUBMISSION
02/10/2023	50% CONSTRUCTION DOCUMENTS
03/02/2023	ARC SUBMISSION

KEY PLAN



7711 N. Port Washington Road
Milwaukee, Wisconsin 53217
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SHEET INFORMATION

PROGRESS DOCUMENTS NOT FOR CONSTRUCTION
These documents reflect progress and views and may be subject to change, including additional detail. These are not final construction documents and shall not be used for final bidding or construction-related purposes.

PROJECT MANAGER TS
PROJECT NUMBER 19314-02

WEST BUS LANE
FIGURE 1



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denver 1800 Weykopa Street, Suite 700
Denver, Colorado 80202
303.955.4500

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601 E ELLSWORTH LN, BAYSIDE, WI 53217

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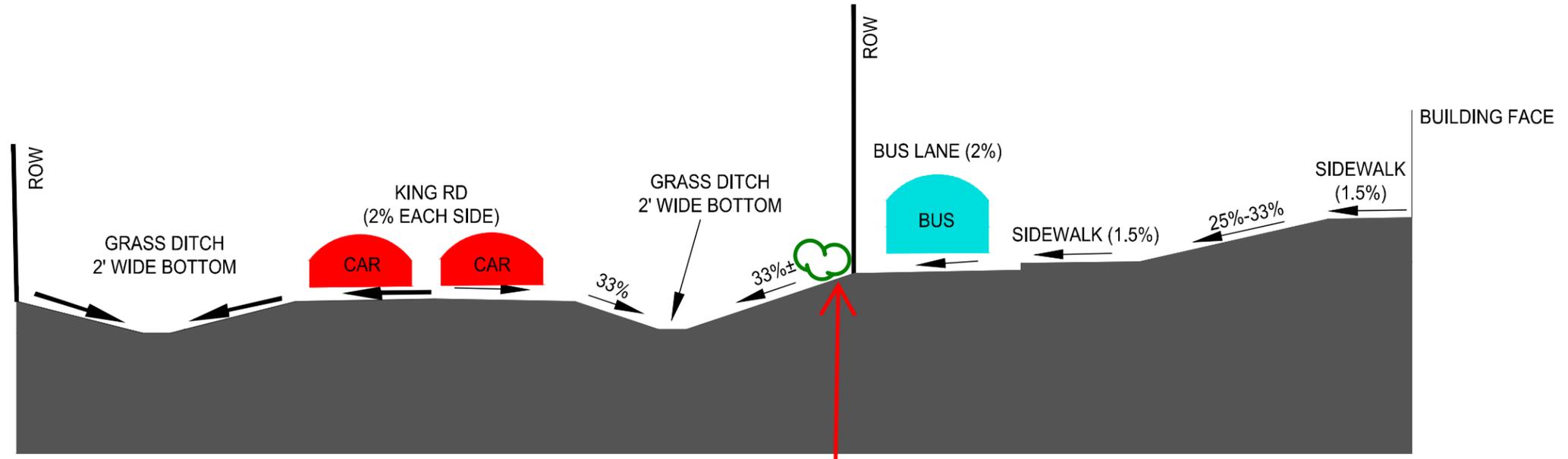
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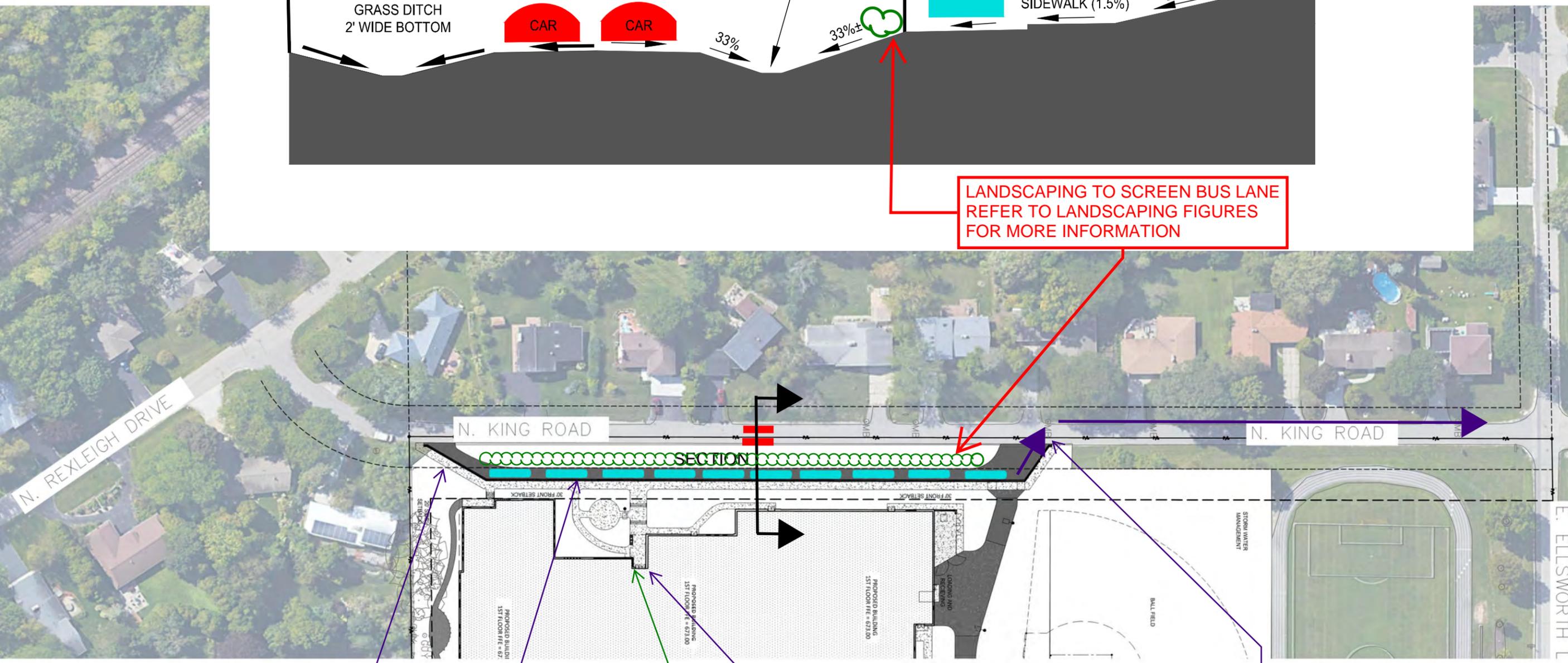
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WEST BUS LANE - SECTION
FIGURE 2

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LANDSCAPING TO SCREEN BUS LANE REFER TO LANDSCAPING FIGURES FOR MORE INFORMATION



All buses arrive from the south on King Rd

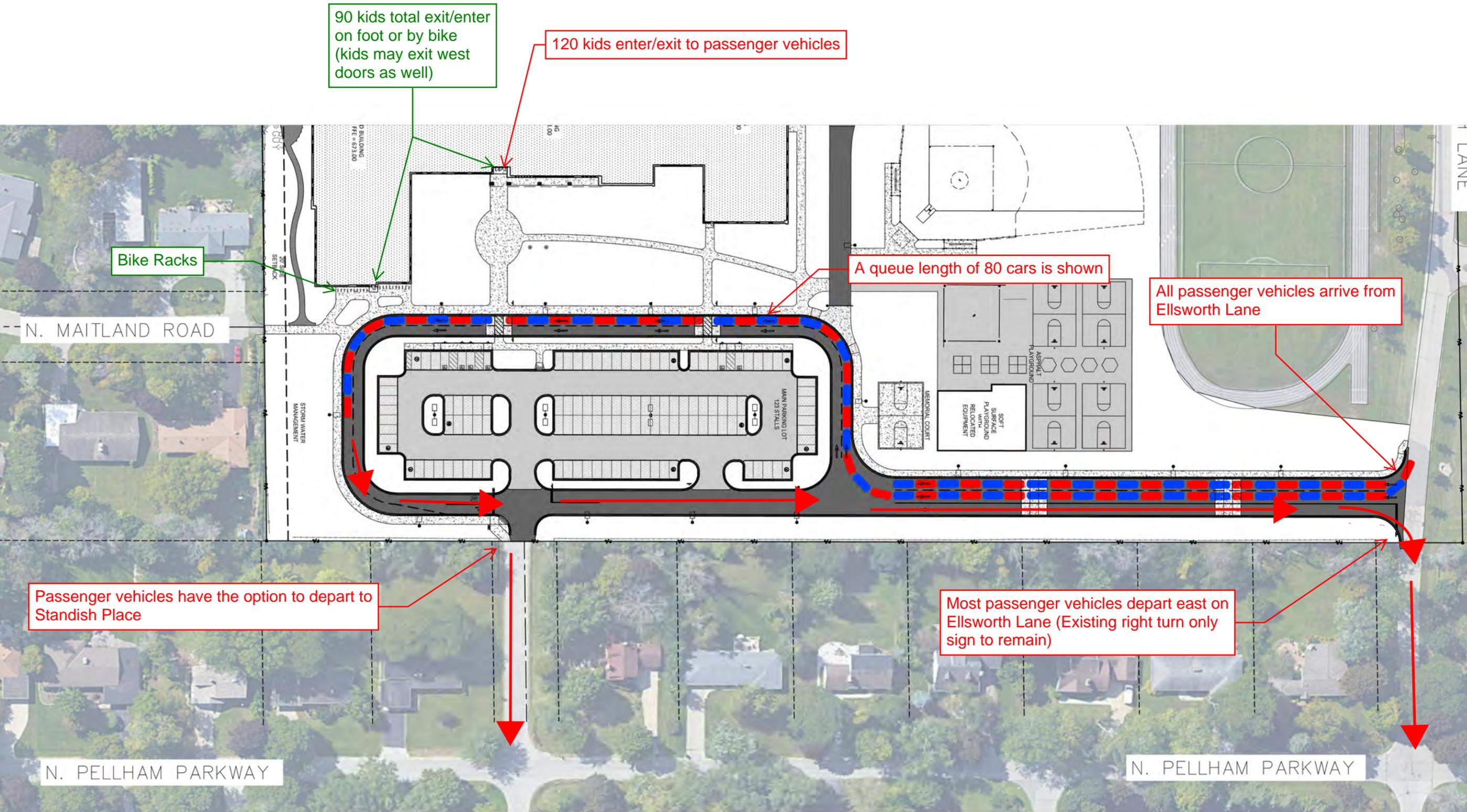
Use of 10 buses expected upon opening of the proposed school

265 kids enter/exit west doors to buses

90 kids total exit/enter on foot or by bike (kids may exit east doors as well)

All buses depart to the north on King Rd at designated dismissal time to minimize traffic conflicts





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Madison, Wisconsin 53703
608.442.5350

denver 1809 Wynkoop Street, Suite 700
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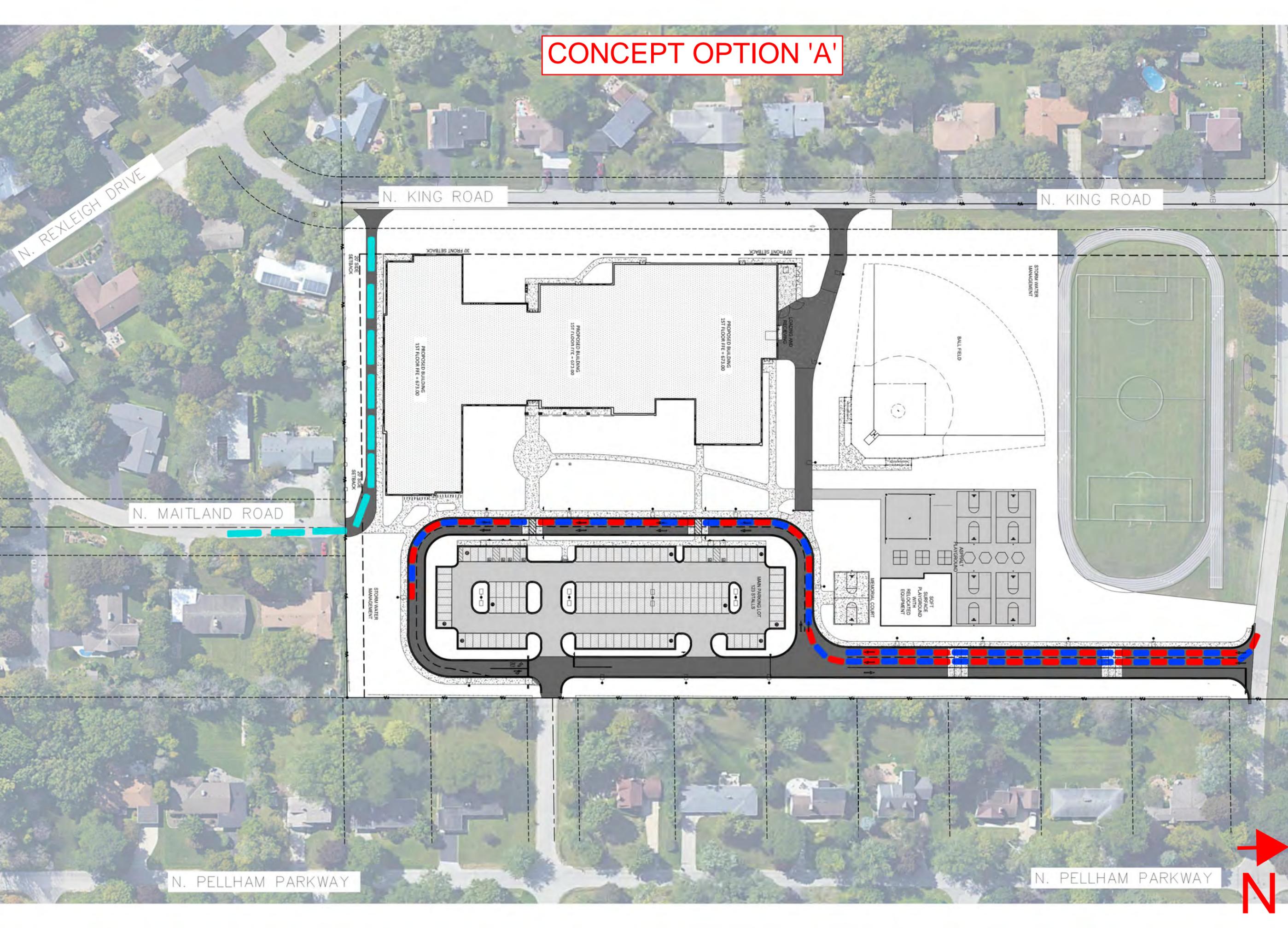
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WEST BUS LANE - CAR LOOP

FIGURE 3



CONCEPT OPTION 'A'



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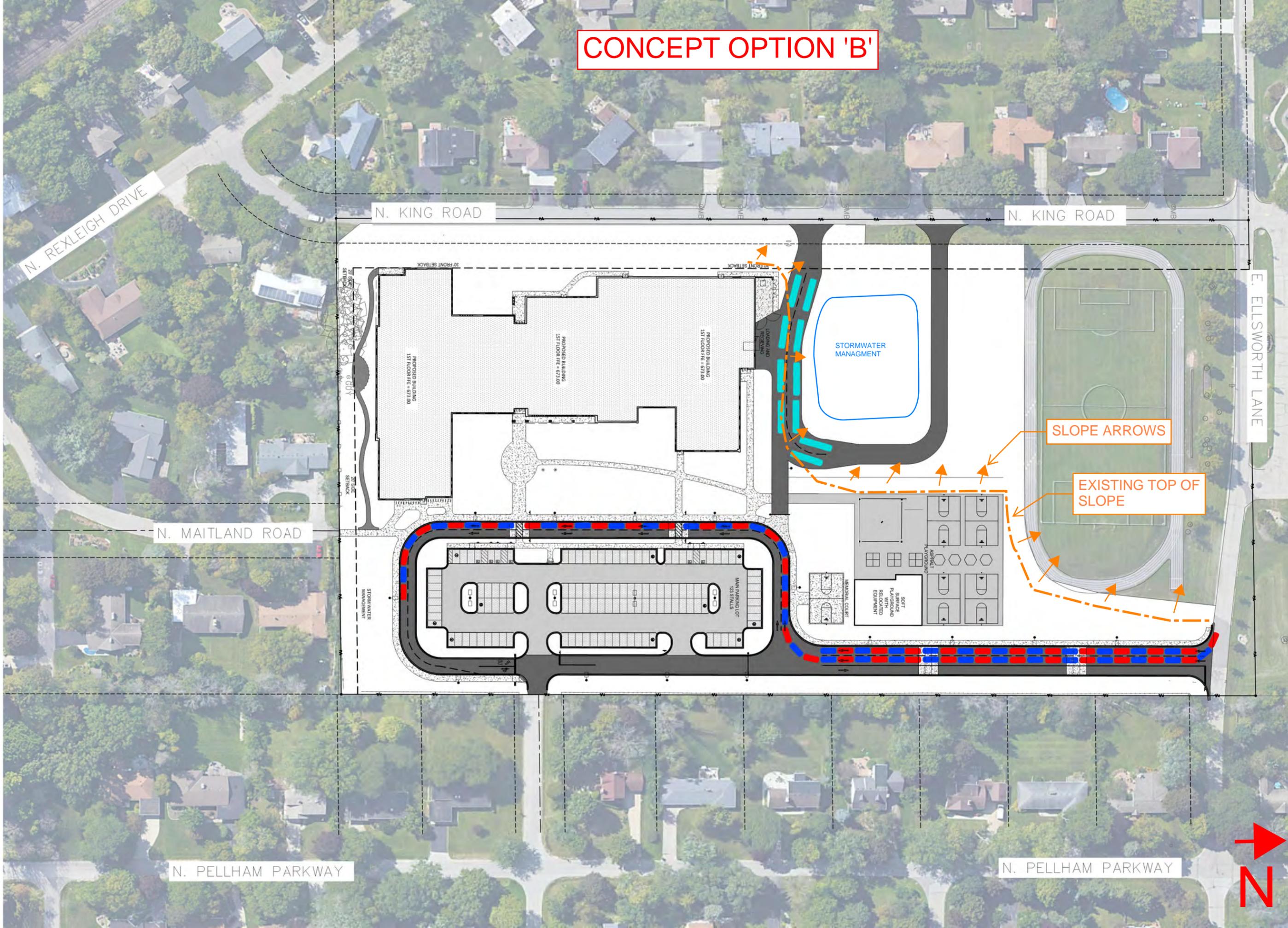
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SOUTH BUS LANE

FIGURE 4



CONCEPT OPTION 'B'



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PROJECT INFORMATION

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 601 E ELLSWORTH LN, BAYSIDE, WI 53217

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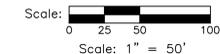
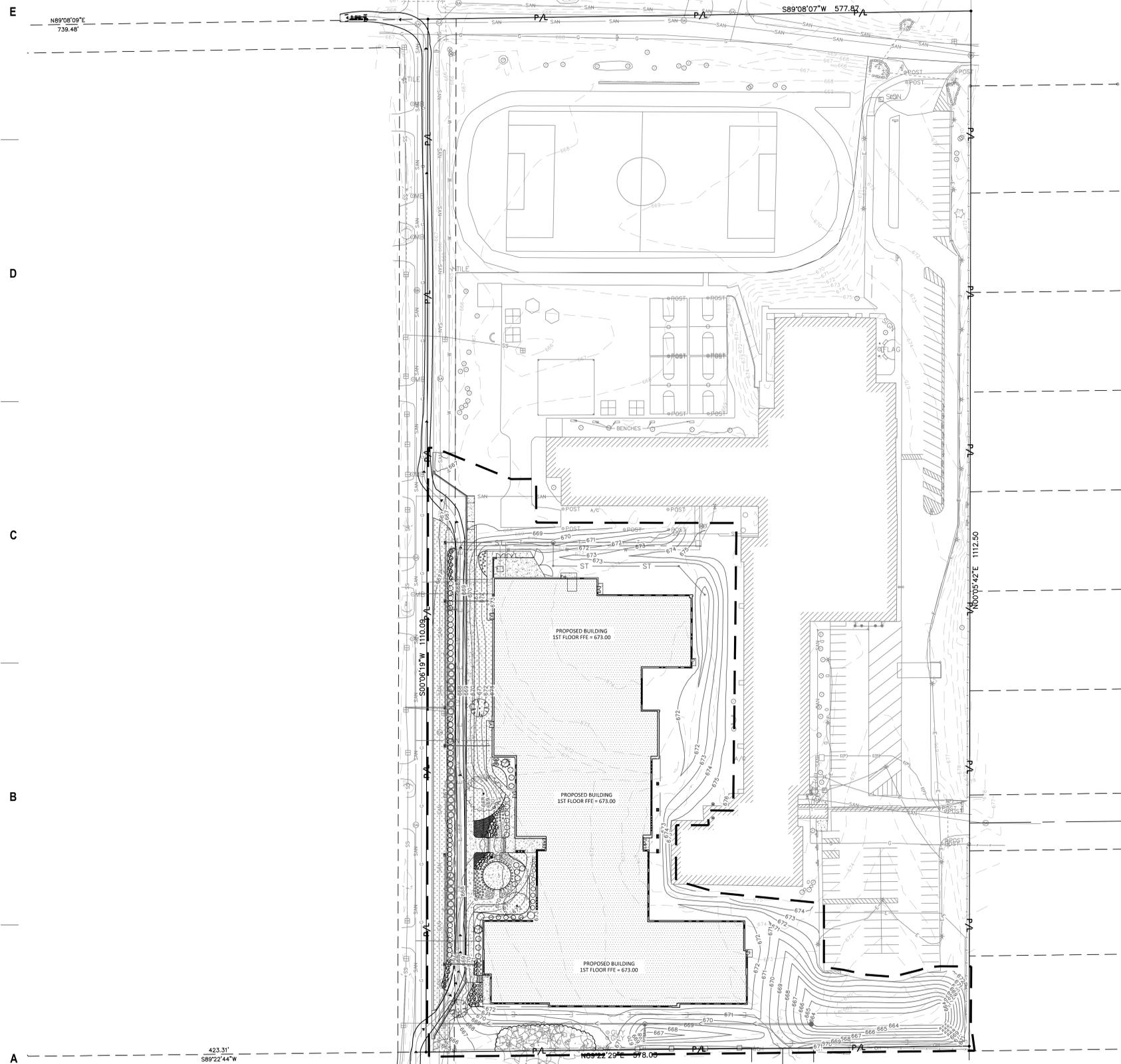
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NORTHWEST BUS LANE

FIGURE 5

RECOMMENDED CONCEPT



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HATCH LEGEND

	PROJECT LIMITS	
	AREAS DISTURBED BY CONSTRUCTION TO BE RESTORED WITH MINIMUM 4" TOPSOIL, KENTUCKY BLUE GRASS SEED, FERTILIZER, AND MULCH (TYP). USE SALVAGED TOPSOIL OR IMPORT TOPSOIL IF REQUIRED.	
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	MIX 1: 3" PLUG PLANTINGS IN BIORETENTION AREA. REFER TO CIVIL AND LANDSCAPE DETAILS. PLUGS TO BE PLANTED 12-INCHES O.C.	1 L201
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	KAFKA GRANITE STABILIZED PATHWAY MIX MANUFACTURER: KAFKA GRANITE COLOR: TO BE DETERMINED BY OWNER (OR APPROVED EQUAL)	9 L202



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PROJECT INFORMATION

BAYSIDE MIDDLE SCHOOL

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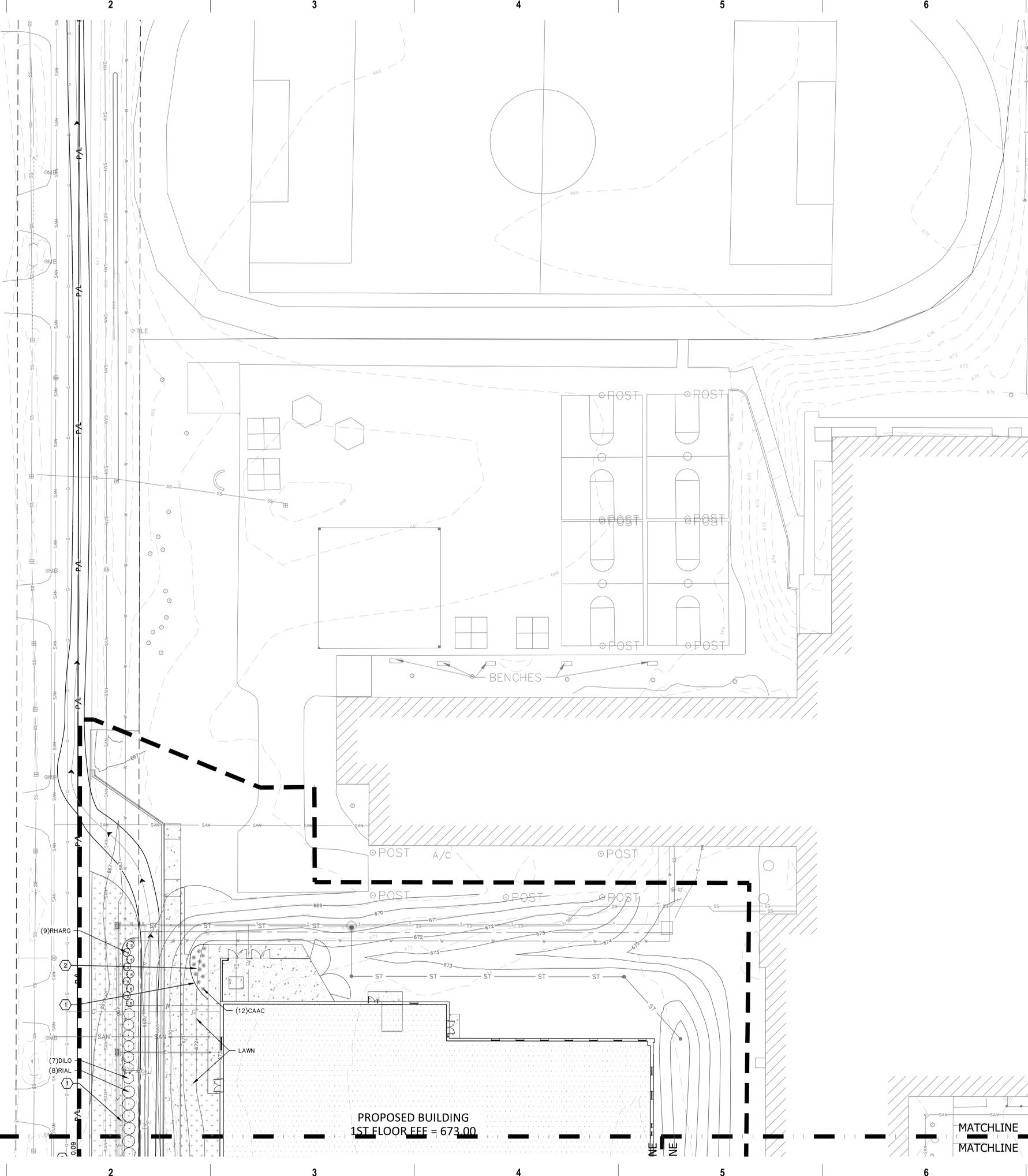
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OVERALL SITE
LANDSCAPE PLAN -
PHASE 1

L101-1



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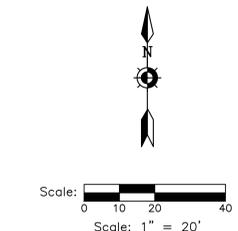
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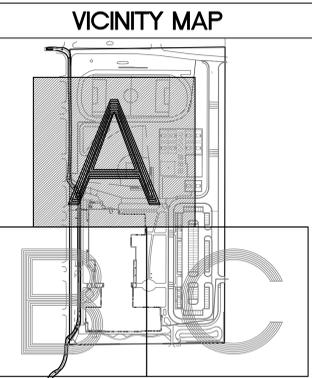
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(10)HEPM

PLANT "CODE" REFERENCES TO THE PLANT SCHEDULE
QUANTITY OF PLANTS IN THE PLANT GROUPING
LEADER LINE
PLANT SYMBOL (SYMBOL VARIES)

KEY INDEX

	1 ALUMINUM EDGING AT PLANTING BED		12 (L202)
	2 SHREDDED HARDWOOD MULCH IN PLANTING BED		7 (L201)
	3 OUTCROPPING STONE RETAINING WALL		11 (L202)
	4 LIGHT POLES (SHOWN FOR REFERENCE ONLY - SEE SITE LIGHTING PLAN)		10 (L202)
	5 STEEL EDGING AT KAFKA GRANITE STABILIZED GRANITE PATHWAY MIX & MULCH		8 (L202)
	6 KAFKA GRANITE STABILIZED GRANITE PATHWAY MIX AT SIDEWALK		13 (L202)
	7 STEEL EDGING AT KAFKA GRANITE STABILIZED GRANITE PATHWAY MIX & LAWN		9 (L202)
	8 EXISTING WOOD FENCE (TO REMAIN)		
	9 6" TALL OPAQUE FENCE (SEE CIVIL PLANS)		

KEY PLAN

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SHEET INFORMATION

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PROJECT MANAGER TS

PROJECT NUMBER 19314-02

SITE LANDSCAPE PLAN - PHASE 1 - AREA A

L101-1A

MATCHLINE
MATCHLINE

PROPOSED BUILDING
1ST FLOOR FFE = 673.00

MATCHLINE
MATCHLINE

E

D

C

B

A

1

2

3

4

5

6

7

1

2

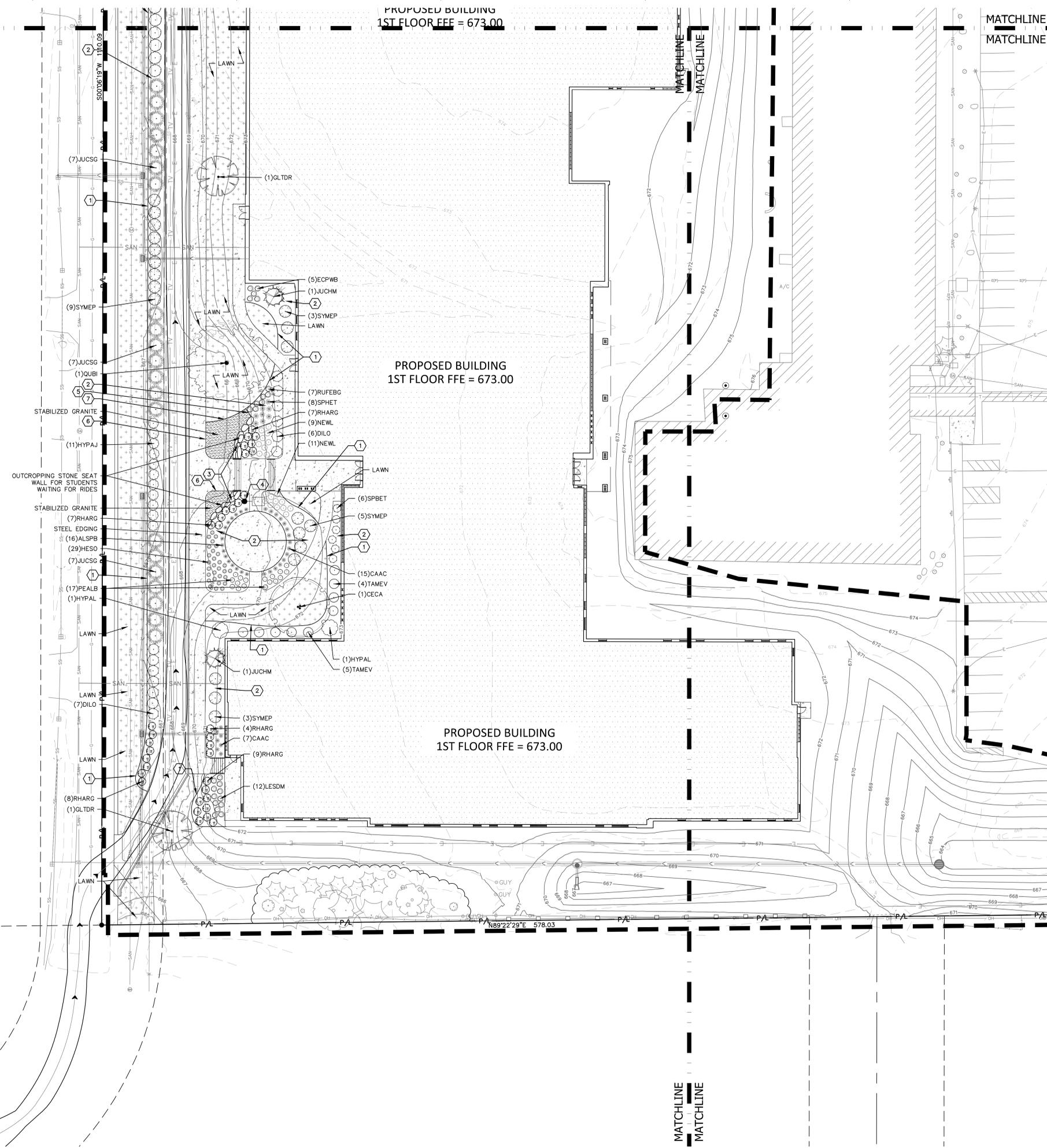
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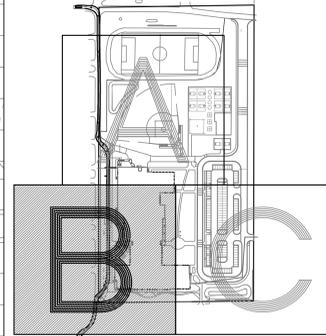
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7



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VICINITY MAP



HATCH LEGEND

	PROJECT LIMITS		12 L202
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5	STEEL EDGING AT KAFKA GRANITE STABILIZED GRANITE PATHWAY MIX & MULCH		8 L202
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9	6' TALL OPAQUE FENCE (SEE CIVIL PLANS)		



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SITE LANDSCAPE PLAN - PHASE 1 - AREA B

L101-1B



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12/09/2022	100% DESIGN DEVELOPMENT
01/16/2023	ARC SUBMISSION
02/10/2023	50% CONSTRUCTION DOCUMENTS
03/02/2023	ARC SUBMISSION

KEY PLAN



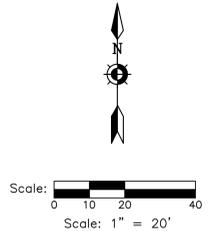
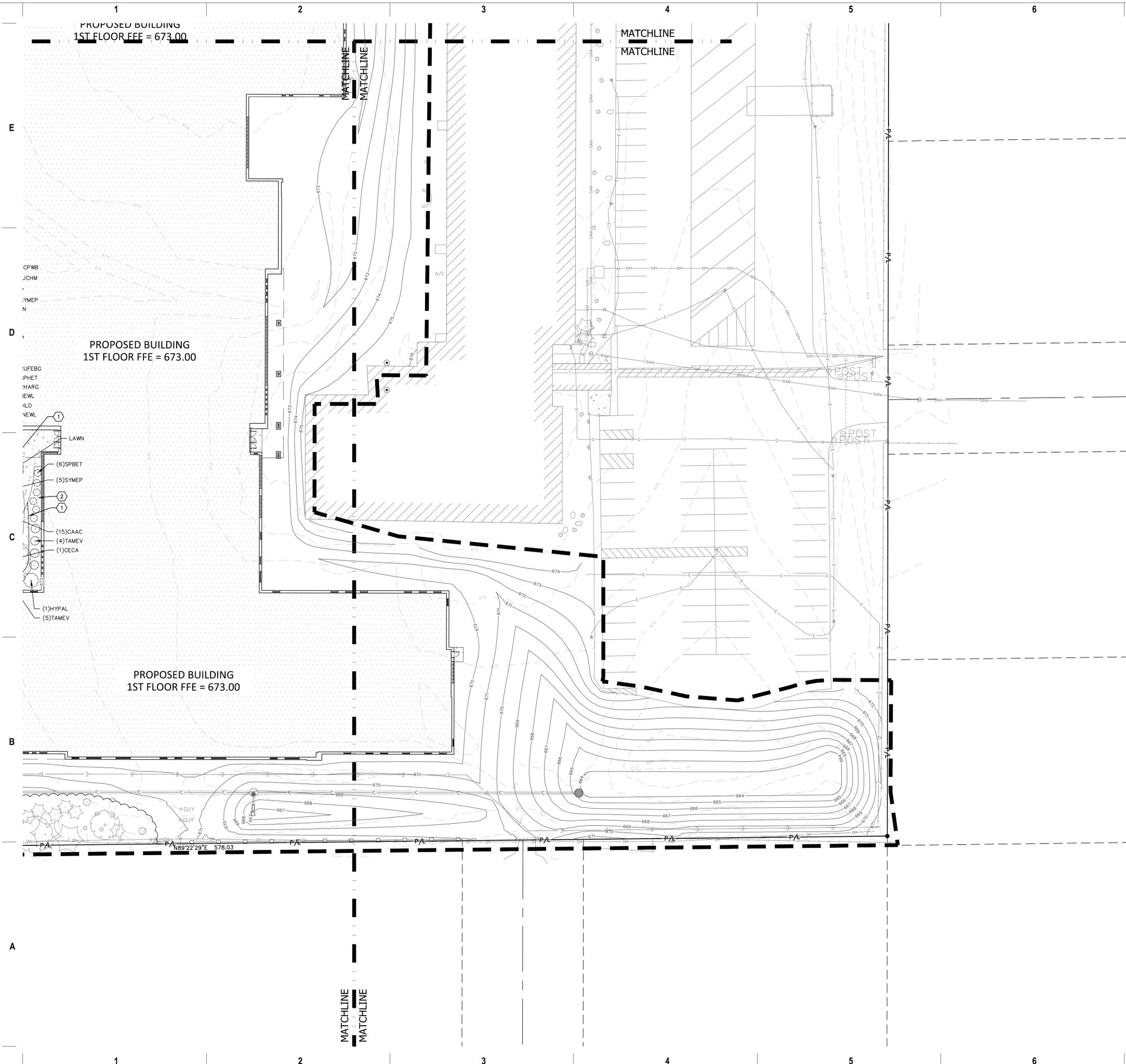
SHEET INFORMATION

PROGRESS DOCUMENTS NOT FOR CONSTRUCTION

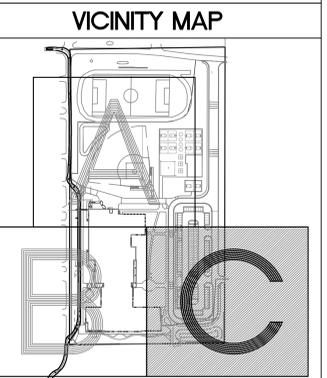
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PROJECT MANAGER TS
PROJECT NUMBER 19314-02
SITE LANDSCAPE PLAN - PHASE 1 - AREA C

L101-1C



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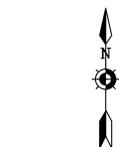
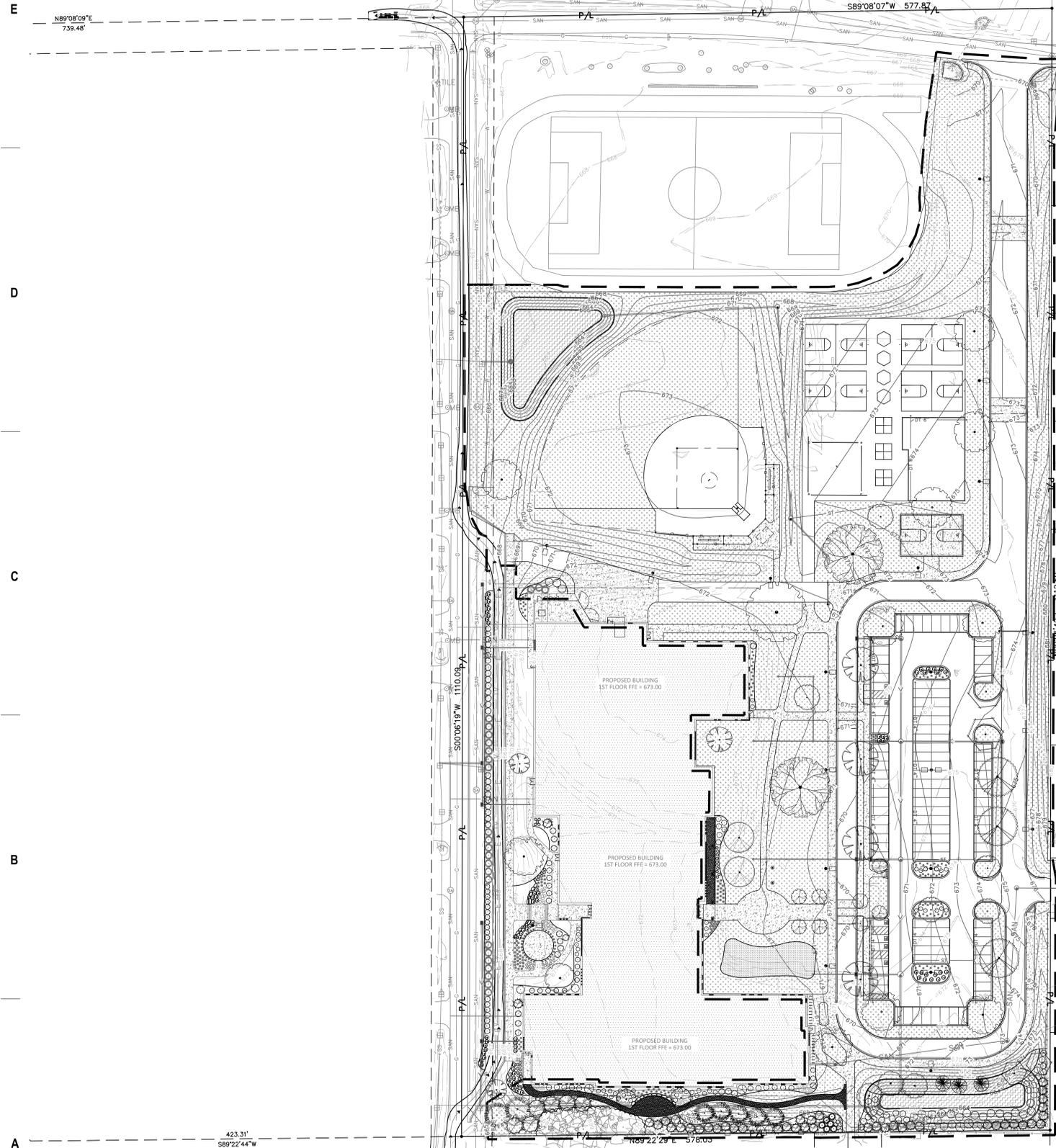
HATCH LEGEND

	PROJECT LIMITS		16		18
	AREAS DISTURBED BY CONSTRUCTION TO BE RESTORED WITH MINIMUM 4" TOPSOIL, KENTUCKY BLUE GRASS SEED, FERTILIZER, AND MULCH (TYP). USE SALVAGED TOPSOIL OR IMPORT TOPSOIL IF REQUIRED.		17		19
	AREAS DISTURBED BY CONSTRUCTION TO BE RESTORED WITH MINIMUM 4" TOPSOIL, BIRD AND BUTTERFLY NATIVE SEED MIX, AND MULCH (TYP). USE SALVAGED TOPSOIL OR IMPORT TOPSOIL IF REQUIRED.		18		20
	MIX 1: 3" PLUG PLANTINGS IN BIORETENTION AREA. REFER TO CIVIL AND LANDSCAPE DETAILS. PLUGS TO BE PLANTED 12-INCHES O.C.		19		21
	AREAS DISTURBED BY CONSTRUCTION TO BE RESTORED WITH MINIMUM 4" TOPSOIL, STORMWATER BIOPFILTRATION NATIVE SEED MIX, AND MULCH (TYP). USE SALVAGED TOPSOIL OR IMPORT TOPSOIL IF REQUIRED.		20		22
	KAFKA GRANITE STABILIZED PATHWAY MIX MANUFACTURER: KAFKA GRANITE. COLOR TO BE DETERMINED BY OWNER (OR APPROVED EQUAL)		21		23
	(10)HEPM		22		24
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KEY INDEX

	1	ALUMINUM EDGING AT PLANTING BED		12	STEEL EDGING AT KAFKA GRANITE STABILIZED GRANITE PATHWAY MIX & MULCH
	2	SHREDDED HARDWOOD MULCH IN PLANTING BED		13	STEEL EDGING AT KAFKA GRANITE STABILIZED GRANITE PATHWAY MIX & LAWN
	3	OUTCROPPING STONE RETAINING WALL		14	EXISTING WOOD FENCE (TO REMAIN)
	4	LIGHT POLES (SHOWN FOR REFERENCE ONLY - SEE SITE LIGHTING PLAN)		15	6" TALL OPAQUE FENCE (SEE CIVIL PLANS)
	5	STEEL EDGING AT KAFKA GRANITE STABILIZED GRANITE PATHWAY MIX & MULCH			
	6	KAFKA GRANITE STABILIZED GRANITE PATHWAY MIX AT SIDEWALK			
	7	STEEL EDGING AT KAFKA GRANITE STABILIZED GRANITE PATHWAY MIX & LAWN			
	8	EXISTING WOOD FENCE (TO REMAIN)			
	9	6" TALL OPAQUE FENCE (SEE CIVIL PLANS)			

RECOMMENDED CONCEPT



Scale: 0 25 50 100
Scale: 1" = 50'

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HATCH LEGEND

	PROJECT LIMITS	
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	MIX 1: 3" PLUG PLANTINGS IN BIORETENTION AREA. REFER TO CIVIL AND LANDSCAPE DETAILS. PLUGS TO BE PLANTED 12-INCHES O.C.	1 L201
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	KAFKA GRANITE STABILIZED PATHWAY MIX MANUFACTURER: KAFKA GRANITE COLOR: TO BE DETERMINED BY OWNER (OR APPROVED EQUAL)	9 L202



milwaukee 333 East Chicago Street
Milwaukee, Wisconsin 53202
414.271.5350
madison 309 West Johnson Street, Suite 202
Madison, Wisconsin 53703
608.442.2590
denver 1899 Wynkoop Street, Suite 700
Denver, Colorado 80202
303.566.4500

PROJECT INFORMATION
BAYSIDE MIDDLE SCHOOL

601 E ELLSWORTH LN, BAYSIDE, WI 53217

ISSUANCE AND REVISIONS

DATE	DESCRIPTION
09/16/2022	50% DESIGN DEVELOPMENT
11/18/2022	75% DESIGN DEVELOPMENT
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KEY PLAN

kapur
7711 N. Port Washington Road
Milwaukee, Wisconsin 53217
kapurinc.com

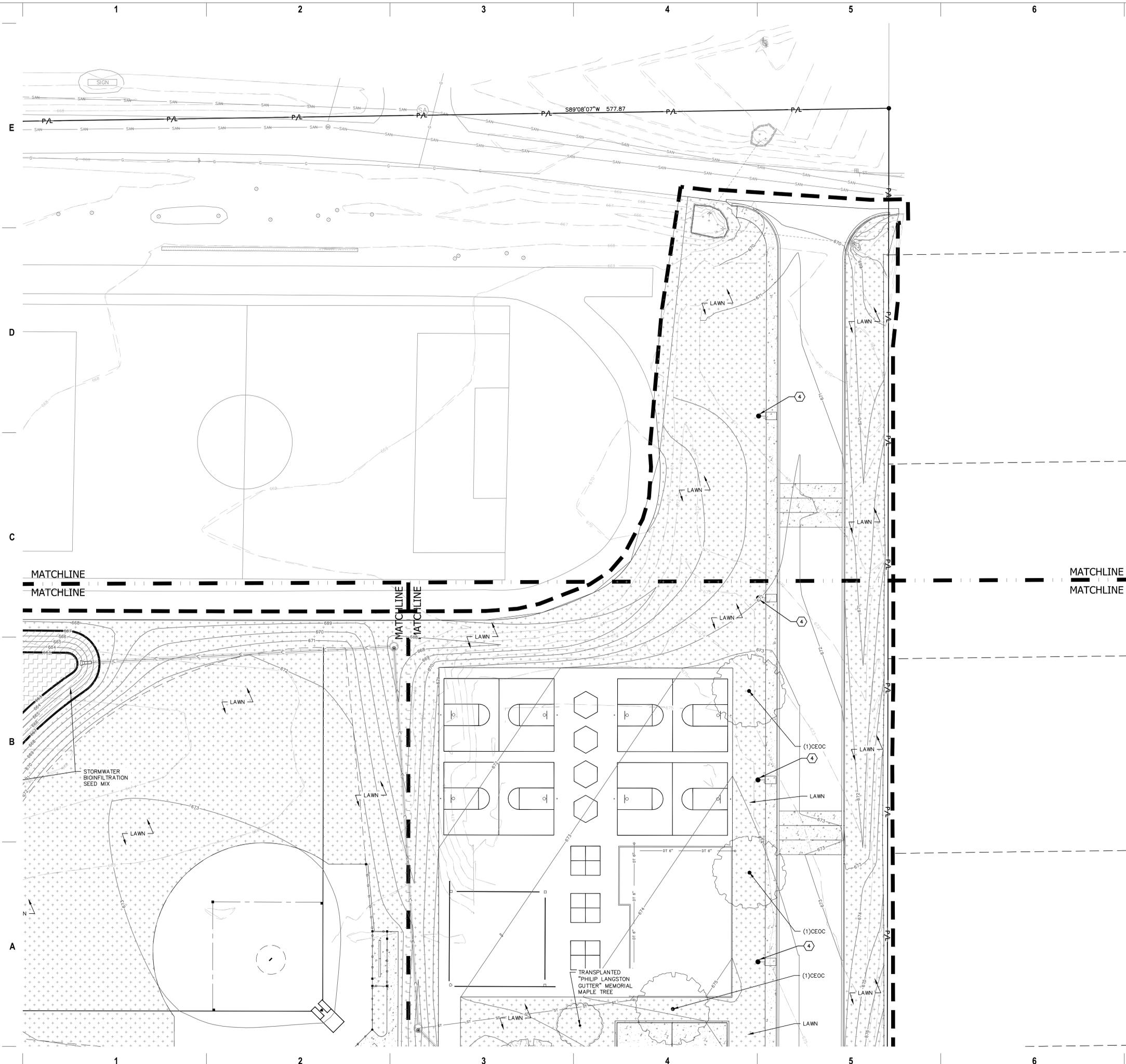
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PROJECT MANAGER TS
PROJECT NUMBER 19314-02

OVERALL SITE LANDSCAPE PLAN - PHASE 2

L101-2



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414.271.5350

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Madison, Wisconsin 53703
608.442.2350

denver 1899 Wynkoop Street, Suite 700
Denver, Colorado 80202
303.566.4500

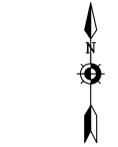
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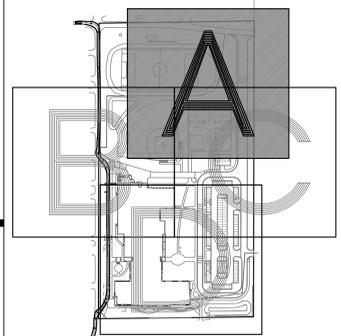


Scale: 0 10 20 40
Scale: 1" = 20'



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VICINITY MAP



HATCH LEGEND

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- 2 SHREDDED HARDWOOD MULCH IN PLANTING BED
- 3 OUTCROPPING STONE RETAINING WALL
- 4 LIGHT POLES (SHOWN FOR REFERENCE ONLY - SEE SITE LIGHTING PLAN)
- 5 STEEL EDGING AT KAFKA GRANITE STABILIZED GRANITE PATHWAY MIX & MULCH
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- 9 6' TALL OPAQUE FENCE (SEE CIVIL PLANS)

KEY PLAN



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Milwaukee, Wisconsin 53217
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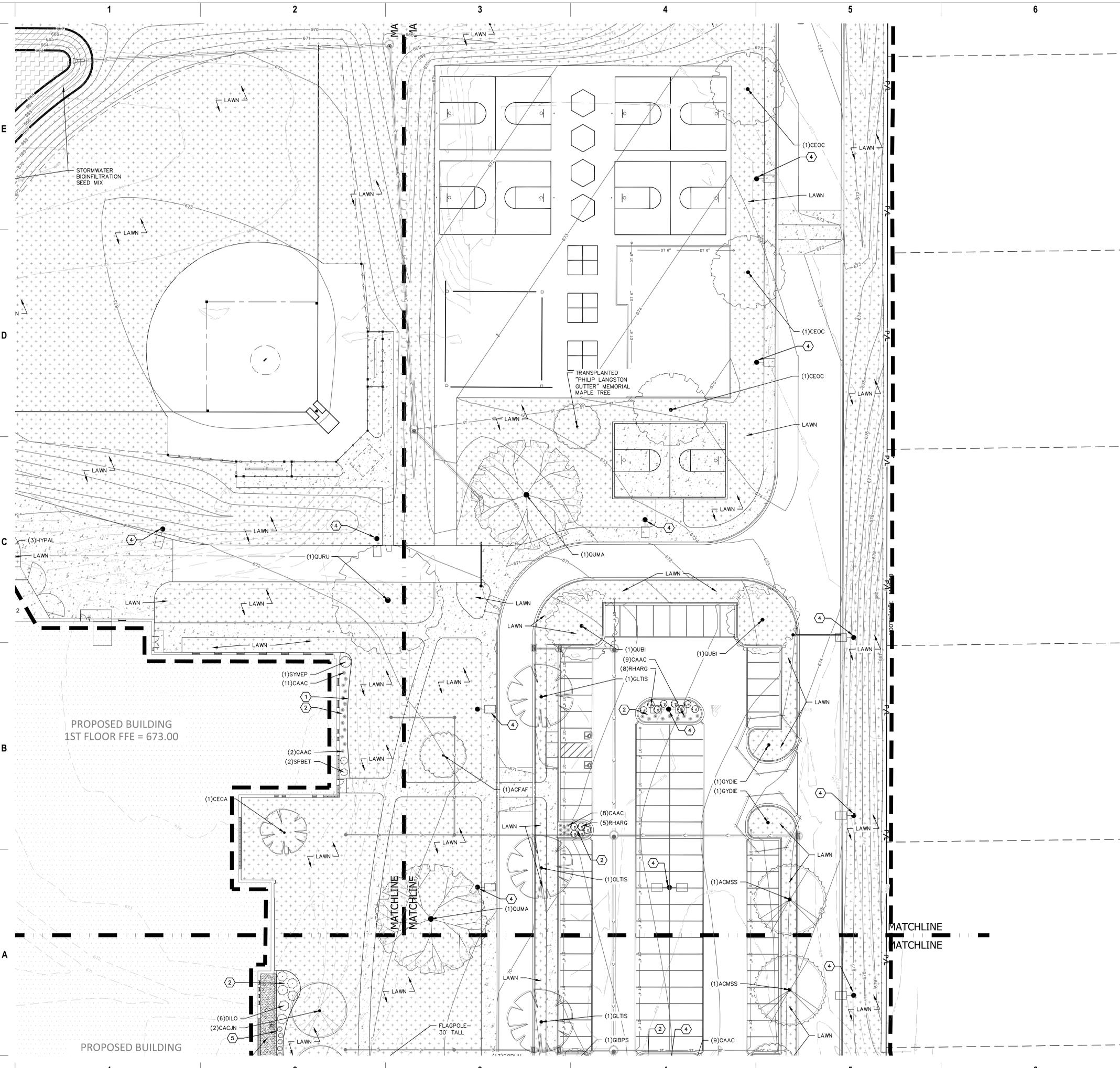
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PROJECT MANAGER TS
PROJECT NUMBER 19314-02

SITE LANDSCAPE PLAN - PHASE 2 - AREA A

L101-2A



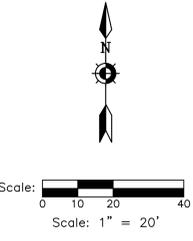
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601 E ELLSWORTH LN, BAYSIDE, WI 53217

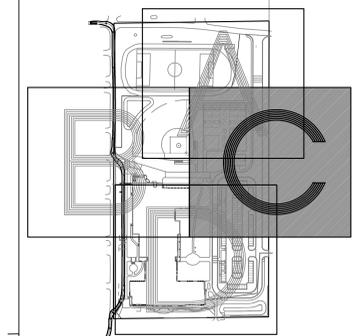
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VICINITY MAP



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- | | | | |
|---|--|----|------|
| 1 | ALUMINUM EDGING AT PLANTING BED | 12 | L202 |
| 2 | SHREDDED HARDWOOD MULCH IN PLANTING BED | 7 | L201 |
| 3 | OUTCROPPING STONE RETAINING WALL | 11 | L202 |
| 4 | LIGHT POLES (SHOWN FOR REFERENCE ONLY - SEE SITE LIGHTING PLAN) | 10 | L202 |
| 5 | STEEL EDGING AT KAFKA GRANITE STABILIZED GRANITE PATHWAY MIX & MULCH | 8 | L202 |
| 6 | KAFKA GRANITE STABILIZED GRANITE PATHWAY MIX AT SIDEWALK | 13 | L202 |
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PROJECT NUMBER 19314-02

SITE LANDSCAPE PLAN - PHASE 2 - AREA C

L101-2C

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KEY PLAN

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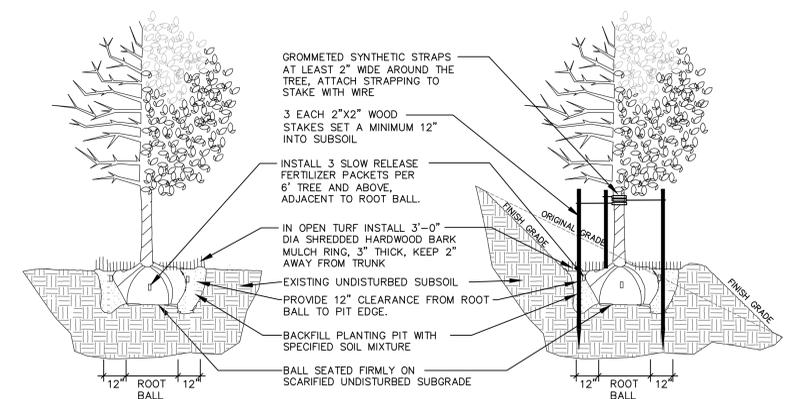
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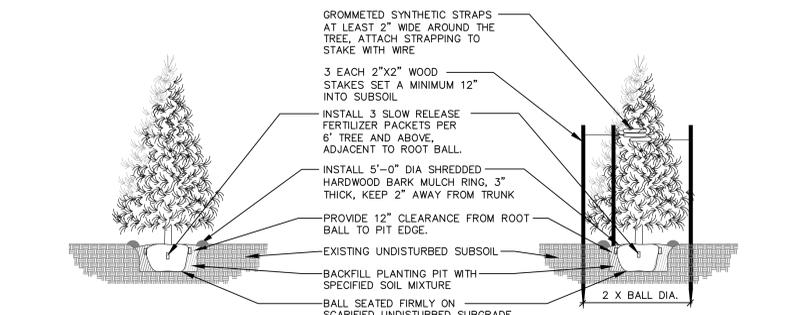
PROJECT MANAGER TS
PROJECT NUMBER 19314-02

SITE LANDSCAPE DETAILS

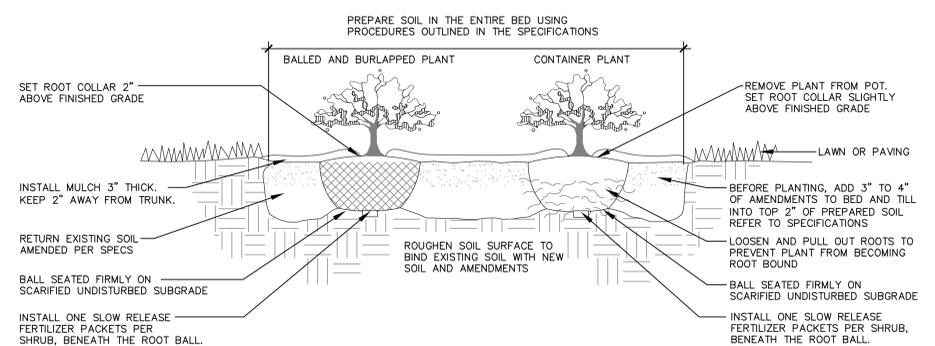
- ALL PLANT MATERIAL SHALL BE OBTAINED FROM A NURSERY LOCATED IN ZONE 5, CONFORM TO APPLICABLE REQUIREMENTS OF THE CURRENT EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, AND BOTANICAL NAMES SHALL BE ACCORDING TO THE CURRENT EDITION OF "STANDARDIZED PLANT NAMES PREPARED BY THE AMERICAN JOINT COMMITTEE ON HORTICULTURE NOMENCLATURE.
- CONTRACTOR TO PROVIDE TO THE LANDSCAPE ARCHITECT SAMPLES OF ALL BARK AND MINERAL/STONE MULCHES, DECORATIVE GRAVELS, MAINTENANCE STRIP STONE, OR OTHER GROUND COVER MATERIALS FOR APPROVAL PRIOR TO INSTALLATION.
- BARK MULCH TO BE FRESHLY ACQUIRED HARDWOOD SHREDDED BARK MULCH. NOT DOUBLE MILLED, EXCESSIVE DIRT AND DUST LIKE MATERIAL OR OLD MATERIAL IS NOT ACCEPTABLE.
- LANDSCAPE EDGING TO BE ALUMINUM EDGING. REFER TO SPECIFICATION 32 93 00 PLANTS FOR ADDITIONAL INFORMATION.
- ALL PLANTING AREAS TO RECEIVE A 3-INCH THICK LAYER OF HARDWOOD SHREDDED BARK MULCH OVER TYPAR WEED FABRIC WITH EDGING. EDGING TO BE INSTALLED BETWEEN DIFFERENT TYPES OF MULCHES, BETWEEN MULCHES AND TURF, AND/OR WHERE SPECIFICALLY NOTED ON THE PLAN. REFER TO SPECIFICATION 32 93 00 PLANTS FOR ADDITIONAL INFORMATION.
- INSTALL SHOVEL CUT EDGE AROUND ALL INDIVIDUAL TREES AND SHRUBS IN LAWN AREAS AND ALONG PAVEMENT WHERE PLANTING AREAS ABUT TO PREVENT HARDWOOD SHREDDED BARK MULCH FROM SPILLING OUT OF PLANTING AREA.
- CONTRACTOR RESPONSIBLE FOR MAINTENANCE OF PLANT MATERIAL FOR 90 DAYS FROM INSTALLATION, INCLUDING WATERING, WEEDING, ETC. CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF SEEDED AREAS FOR 60 DAYS FROM INSTALLATION, INCLUDING WATERING, WEEDING, ETC. CONTRACTOR TO PROVIDE AND REVIEW MAINTENANCE INSTRUCTIONS WITH THE OWNER PRIOR TO THE COMPLETION OF THESE MAINTENANCE PERIODS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- CLEANLY PRUNE AND REMOVE DAMAGED BRANCHES, DEAD WOOD, AND ROOTS IMMEDIATELY PRIOR TO PLANTING. DO NOT CUT LEADERS OR LEAVE "V" CROTCHES OR DOUBLE LEADERS UNLESS A MULTI-STEM TREE IS SPECIFIED.
- REMOVE BURLAP, WIRE BASKET, ROPE, TWINE, AND ALL SYNTHETIC MATERIAL FROM THE ROOTS, TRUNK, OR CROWN OF PLANT.
- REMOVE EXCESS SOIL ABOVE ROOT COLLAR.
- PLANT TREES AND SHRUBS SO THAT THE ROOT COLLAR IS 2" ABOVE FINISHED GRADE OR SEVERAL INCHES ABOVE GRADE IF PLANT IS INSTALLED IN POOR SOILS.
- PLANT TREES AND SHRUBS WITH SAME ORIENTATION AS WHEN HARVESTED FROM THE NURSERY OR TO SHOWCASE THE MOST AESTHETIC VIEW.
- PLANT ALL TREES WITH THREE SLOW RELEASE FERTILIZER PACKETS, SPACED EQUIDISTANT AROUND THE EDGE OF THE ROOT BALL.
- PLANT ALL SHRUBS WITH ONE SLOW RELEASE FERTILIZER PACKET, PLACED BELOW THE ROOTING SYSTEM.
- WATER AND TAMP BACKFILL AND ROOTS OF ALL NEWLY SET PLANT MATERIAL SO THE SOIL AND ROOTS ARE THOROUGHLY SOAKED AND AIR POCKETS ARE REMOVED.
- FOR INDIVIDUAL TREES & SHRUBS PLANTED IN TURF AREAS, PROVIDE CONTINUOUS 3" SOIL SAUCER TO CONTAIN WATER & MULCH (TREES ON SLOPES SHALL BE SAUCERED ON THE DOWNHILL SIDE)
- INSTALL 3" THICK SHREDDED HARDWOOD BARK MULCH RING 3'-0" DIA. FOR DECIDUOUS TREES AND ALL INDIVIDUAL SHRUBS IN LAWN AREAS; 5'-0" DIA. FOR EVERGREEN TREES. KEEP MULCH 2" AWAY FROM TRUNKS.
- STAKING - ONLY STAKE EVERGREEN TREES 5'-0" OR GREATER IN HEIGHT OR TREES THAT ARE UNABLE TO REMAIN UPRIGHT AFTER PLANTING. TREES WILL BECOME STRONGER FASTER WHEN THE TOP 2/3 OF THE TREE IS FREE TO SWAY. DO NOT ATTACH WIRE DIRECTLY TO TREES OR THROUGH HOSES - UTILIZE GROMMETED, SYNTHETIC STRAPS AT LEAST 2" WIDE AROUND THE TREE, ATTACH STRAPPING TO STAKE WITH WIRE. STAKE ONLY WHEN NECESSARY. STAKES SHOULD BE DRIVEN DEEPLY INTO THE GROUND TO PREVENT DISLODGING. CHECK AT LEAST EVERY THREE MONTHS FOR BINDING OR OTHER PROBLEMS. STAKES AND TIES SHOULD BE REMOVED SIX MONTHS TO ONE YEAR AFTER PLANTING.
- CROWN THE FINISH GRADE OF PARKING LOT LANDSCAPE ISLANDS TO SHED WATER TOWARDS CURB OR PAVEMENT.
- NATIVE SEED MIX AT BIOFILTRATION BASINS TO BE STORMWATER BIOFILTRATION FOR WET MESSIC TO MESSIC SOILS SEED MIX WITH ANNUAL RYE NURSE CROP FROM AGRECOL, LLC. REFER TO NOTES XX/L202 AND XX/L202 FOR ADDITIONAL INFORMATION. AGRECOL, LLC ADDRESS: 10101 NORTH CASEY ROAD EVANSVILLE, WI 53536. TELEPHONE: 608-223-3571 FAX: 608-884-4640 EMAIL: ECOSOLUTIONS@AGRECOL.COM.
- NATIVE PRAIRIE SEED MIX BETWEEN BUILDING AND PARKING LOT TO BE SHORT GRASS PRAIRIE FOR MESSIC SOILS SEED MIX WITH ANNUAL RYE NURSE CROP FROM AGRECOL, LLC. REFER TO NOTES XX/L202 AND XX/L202 FOR ADDITIONAL INFORMATION. AGRECOL, LLC ADDRESS: 10101 NORTH CASEY ROAD EVANSVILLE, WI 53536. TELEPHONE: 608-223-3571 FAX: 608-884-4640 EMAIL: ECOSOLUTIONS@AGRECOL.COM.
- NO MOW TO BE NO MOW FESCUE SEED MIX WITH ANNUAL RYE NURSE CROP FROM PRAIRIE NURSERY, INC. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. PRAIRIE NURSERY ADDRESS: PO BOX 306 WESTFIELD, WI 53964. TELEPHONE: 1-800-476-9453 FAX: 608-296-2741.
- OUTDOOR CLASSROOM AND PATH TO OUTDOOR CLASSROOM: STABILIZED PATHWAY MIX TO BE SALT & PEPPER GRANITE (OR COLOR PER OWNER AND ARCHITECT) STABILIZED PATHWAY MIX MANUFACTURED BY KAFKA GRANITE, LLC 1-800-852-7415 WWW.KAFKAGRANITE.COM -OR- APPROVED EQUAL. INSTALL AND MAINTAIN IN ACCORDANCE WITH MANUFACTURER'S DETAILS AND WRITTEN SPECIFICATIONS FOR PEDESTRIAN USE. PROVIDE SAMPLES FOR OWNER, ARCHITECT AND/OR LANDSCAPE ARCHITECT REVIEW AND APPROVAL.
- REMOVE ALL AGGREGATE BASE DOWN TO SUBGRADE IN AREAS TO BE CONVERTED FROM PAVING TO LAWN OR PLANTING BEDS. REPLACE WITH SUBGRADE MATERIAL ALLOW FOR SPECIFIED THICKNESS OF TOPSOIL OR PLANTING SOIL
- REFER TO SPECIFICATIONS 32 93 00 PLANTS AND 32 92 00 TURF AND GRASSES FOR ADDITIONAL INFORMATION.



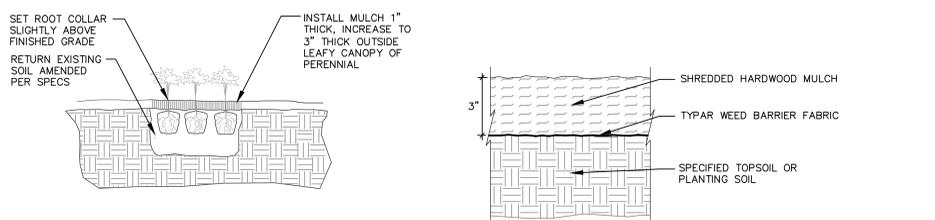
3 DECIDUOUS TREE PLANTING, STAKING, & PLANTING ON A SLOPE N.T.S.



4 EVERGREEN TREE PLANTING & STAKING N.T.S.



5 DECIDUOUS & EVERGREEN SHRUB PLANTING N.T.S.



6 PERENNIAL PLANTING N.T.S.



7 SHREDDED HARDWOOD MULCH SECTION N.T.S.

Plant Schedule

Code	Scientific Name	Common Name	Phase 1 Quantity	Phase 2 Quantity	Spacing	Install Size	Mature Size (Height/Spread)
Canopy Trees: (Install according to detail 3/L201)							
ACFAF	Acer x freemanii 'Autumn Fantasy'	Autumn Fantasy Maple	n/a	4	Per Plan	2 5" caliper B&B	50'/30'
ACMSS	Acer miyabei 'Morton'	State Street Miyabei Maple	n/a	3	Per Plan	2 5" caliper B&B	50'/40'
ACRAR	Acer rubrum 'Autumn Radiance'	Autumn Radiance Red Maple	n/a	1	Per Plan	3" caliper B&B	50'/40'
CEOC	Celtis occidentalis	Common Hackberry	n/a	4	Per Plan	3" caliper B&B	40'-60'/40'-60'
GIBPS	Ginkgo biloba 'Princeton Sentry'	Princeton Sentry Ginkgo	n/a	6	Per Plan	3" caliper B&B	40'/15'
GLDR	Gleditsia triacanthos 'Draves'	Street Keeper Honeylocust	2	n/a	Per Plan	2 5" caliper B&B	45'/20'
GLTIS	Gleditsia triacanthos 'Shademaster' PP1.515	Shademaster Honeylocust	n/a	4	Per Plan	2 5" caliper B&B	60'/35'
GYDIE	Gymnocladus dioica 'Espresso'	Espresso Kentucky Coffee Tree	n/a	2	Per Plan	2 5" caliper B&B	50'/35'
POTR	Populus tremuloides	Quaking Aspen	n/a	2	Per Plan	2 5" caliper B&B	40'-50'/20'-30'
QUBI	Quercus bicolor	Swamp White Oak	1	4	Per Plan	3" caliper B&B	50'/40'
QUMA	Quercus macrocarpa	Bur Oak	n/a	2	Per Plan	3" caliper B&B	70'-90'/60'-80'
QURU	Quercus rubra	Red Oak	n/a	1	Per Plan	3" caliper B&B	60'-75'/60'-75'
Ornamental Trees: (Install according to detail 3/L201)							
BENI	Betula nigra	River Birch	n/a	3	Per Plan	8' multi-stem B&B	40'-70'/35'-50'
CACJN	Carpinus caroliniana 'J.N. Strain'	J.N. Strain Musclemwood	n/a	2	Per Plan	2 5" caliper B&B	25'-30'/25'-30'
CECA	Cercis canadensis	Eastern Redbud	1	3	Per Plan	8' multi-stem B&B	20'-30'/25'-35'
SYRIS	Syringa reticulata 'Ivory Silk'	Ivory Silk Japanese Tree Lilac	n/a	2	Per Plan	2 5" caliper B&B	25'/15'
SYRISM	Syringa reticulata 'Ivory Silk'	Ivory Silk Japanese Tree Lilac	2	n/a	Per Plan	8' multi-stem B&B	25'/15'
Evergreen Trees: (Install according to detail 4/L201)							
LALA	Larix laricina	Tamarack	n/a	3	Per Plan	6' tall B&B	30'-50'/10'-15'
PIAB	Picea abies	Norway Spruce	n/a	2	Per Plan	6' tall B&B	50'-70'/25'-30'
PIABC	Picea abies 'Cupressina'	Columnar Norway Spruce	n/a	6	Per Plan	6' tall B&B	20'/8'
THPUW	Thuja plicata x occidentalis 'UW'	UW Arborvitae	n/a	5	Per Plan	6' tall B&B	25'-35'/20'
TSCA	Tsuga canadensis	Canadian Hemlock	n/a	6	Per Plan	6' tall B&B	25'-45'/15'-25'
Deciduous Shrubs: (Install according to detail 5/L201)							
ARME	Aronia melanocarpa var. 'Eлата'	Glossy Black Chokeberry	n/a	19	Per Plan	18" tall pot	5'-7'/4'-6'
AMST	Amelanchier stolonifera	Running Serviceberry	n/a	11	Per Plan	18" tall pot	3'-5'/5'-7'
CEAM	Ceanothus americanus	New Jersey Tea	n/a	14	Per Plan	18" tall pot	2'-3'/2'-4'
CEOCC	Ceanothus occidentalis	Buttonbush	n/a	6	Per Plan	24" tall pot	6'-8'/6'-8'
COAM	Corylus americana	American Filbert/Hazelnut	n/a	2	Per Plan	36" tall pot	8'-10'/8'-10'
COSE	Cornus sericea	Redosier Dogwood	n/a	6	Per Plan	30" tall pot	7'-9'/8'-10'
DILO	Diervilla lonicera	Dwarf Bush Honeysuckle	20	17	Per Plan	18" tall pot	2'-3'/4'-5'
HYKA	Hypericum kalmianum	St. John's Wort	n/a	7	Per Plan	15" tall pot	2'-4'/2'-4'
HYPAL	Hydrangea paniculata 'Jane'	Little Lime Hydrangea	11	n/a	Per Plan	18" tall pot	3'-5'/3'-5'
HYPAL	Hydrangea paniculata 'Limeight'	Limeight Hydrangea	2	3	Per Plan	18" tall pot	6'-8'/6'-8'
PHOP	Physocarpus opulifolius	Common Ninebark	n/a	12	Per Plan	36" tall pot	8'-10'/8'-10'
POFR	Potentilla fruticosa	Bush Cinquefoil	n/a	12	Per Plan	18" tall pot	3'-4'/2'-4'
RHARG	Rhus aromatica 'Gro-Low'	Gro-Low Sumac	44	28	Per Plan	18" spread pot	2'-3'/6'-8'
RIAL	Ribes alpinum	Alpine Currant	8	n/a	Per Plan	18" tall pot	3'-5'/5'-6'
RIALG	Ribes alpinum 'Green Mound'	Green Mound Alpine Currant	n/a	6	Per Plan	18" tall pot	3'-5'/3'-5'
SPBET	Spiraea betulifolia 'Tor'	Tor Birchleaf Spirea	6	17	Per Plan	18" tall pot	2'-3'/3'
SYMPE	Syringa meyeri 'Palibin'	Meyer Lilac (Dwarf Korean Lilac)	20	2	Per Plan	24" tall pot	4'-5'/5'-7'
VILE	Viburnum lentago	Nannyberry Viburnum	n/a	3	Per Plan	36" tall B&B	12'-15'/8'-10'
Evergreen Shrubs: (Install according to detail 5/L201)							
JUCHM	Juniperus chinensis 'Mountbatten'	Mountbatten Chinese Juniper	2	40	Per Plan	6' tall B&B	15'/6'-8'
JUCSG	Juniperus chinensis 'Sea Green'	Sea Green Juniper	21	3	Per Plan	18" spread pot	4'-6'/6'-8'
TAMEV	Taxus x media 'Everlow'	Everlow Yew	9	n/a	Per Plan	18" spread pot	2'-3'/4'-5'
Perennials: (Install according to detail 6/L201)							
ALSPB	Allium x 'Summer Peek-a-Boo'	Summer Peek-a-Boo Globe Lily	16	18	Per Plan	#1 cont.	8"-12"/18"-24"
ASER	Aster ericoides	Heath Aster	n/a	9	Per Plan	#1 cont.	18"-24"/12"-18"
CAAC	Calamagrostis x acutiflora Karl Foerster	Karl Foerster Reed Grass	34	57	Per Plan	#1 cont.	5'-6'/18"-24"
ECPUK	Echinacea purpurea 'Kimi's Knee High'	Kimi's Knee High Coneflower	n/a	25	Per Plan	#1 cont.	18"-24"/18"-24"
ECPWV	Echinacea purpurea 'PowWow Wild Berry'	PowWow Wild Berry Coneflower	5	n/a	Per Plan	#1 cont.	18"-24"/12"-16"
GEMA	Geranium maculatum	Wild Geranium	n/a	15	Per Plan	#1 cont.	18"-24"/12"-18"
HESO	Hemerocallis 'Stella De Oro'	Stella De Oro Daylily	29	14	Per Plan	#1 cont.	18"-18"/18"-24"
LESDM	Leucanthemum x superbum 'Daisy May' (Daisy Duke)	Daisy May Shasta Daisy	12	n/a	Per Plan	#1 cont.	12"-24"/12"-18"
NEWL	Nepeta x 'Walker's Low'	Walker's Low Catmint	20	n/a	Per Plan	#1 cont.	24"-36"/18"-36"
PEALB	Perovskia atriplicifolia 'Lacey Blue'	Lacey Blue Russian Sage	17	n/a	Per Plan	#1 cont.	18"-20"/24"-36"
RUFEBG	Rudbeckia fulgida 'Early Bird Gold'	F. Early Bird Gold Black-eyed Susan	7	19	Per Plan	#1 cont.	20"-24"/18"-24"
SPHET	Sporobolus heterolepis 'Tara'	Tara Prairie Dropseed	8	32	Per Plan	#1 cont.	18"-24"/18"-24"
Bio-mix: (Space according to detail 15/L202)							
			North Bio-Basin	South Bio-Basin	Triangular Spacing		
BIOMIX 1	Aster ericoides	Heath Aster	138	64	18" o.c.	3" plug	18"-24"/12"-18"
BIOMIX 1	Aster novae-angliae	New England Aster	138	64	12" o.c.	3" plug	48"-60"/18"-24"
BIOMIX 1	Baptisia leucantha	Wild White Indigo	138	64	12" o.c.	3" plug	24"-36"/18"-24"
BIOMIX 1	Eupatorium maculatum	Spotted Joe Pye Weed	138	64	12" o.c.	3" plug	60"-72"/24"-36"
BIOMIX 1	Liatris spicata	Marsh Blazing Star	138	64	12" o.c.	3" plug	36"-48"/12"-24"
BIOMIX 1	Monarda fistulosa	Wild Bergamot	138	64	12" o.c.	3" plug	36"-48"/24"-36"
BIOMIX 1	Rudbeckia hirta	Black-eyed Susan	138	64	12" o.c.	3" plug	36"-48"/12"-18"
BIOMIX 1	Solidago rugosa 'Fireworks'	Fireworks Goldenrod	138	64	12" o.c.	3" plug	42"-48"/18"-24"
BIOMIX 1	Spidewort	Spidewort	138	64	12" o.c.	3" plug	24"-36"/12"-18"
BIOMIX 1	Ratibida pinnata	Yellow Coneflower	138	64	12" o.c.	3" plug	36"-48"/12"-18"
BIOMIX 1	Carex bebbii	Bebb's Sedge	138	92	12" o.c.	3" plug	12"-24"/8"-12"
BIOMIX 1	Bromus ciliatus	Fringed Brome Grass	138	64	12" o.c.	3" plug	20"-40"/12"-18"
BIOMIX 1	Panicum virgatum	Switch Grass	138	64	12" o.c.	3" plug	60"-108"/24"-36"
BIOMIX 1	Elymus canadensis	Canada Wild Rye	138	64	12" o.c.	3" plug	24"-48"/10"-12"
BIOMIX 1	Elymus virginicus	Virginia Wild Rye	138	64	12" o.c.	3" plug	24"-48"/18"-24"
BIOMIX 1	Carex vulpinoidea	Fox Sedge	176	92	12" o.c.	3" plug	12"-36"/24"-36"

NOTE: Plant quantities indicated in the plant schedule are for convenience only. Installation contractor is responsible for verifying plant count on the landscape plan. When discrepancies between the plant schedule, labels and the landscape plan occur, the quantity drawn on the landscape plan shall be the official quantity.

1 LANDSCAPE SCHEDULE
REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION

2 LANDSCAPE NOTES
REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION

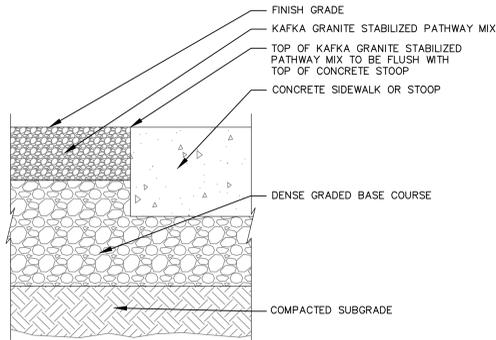
6 PERENNIAL PLANTING
N.T.S.

7 SHREDDED HARDWOOD MULCH SECTION
N.T.S.

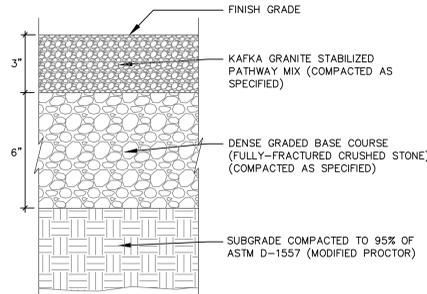
DATE	DESCRIPTION
09/16/2022	50% DESIGN DEVELOPMENT
11/18/2022	75% DESIGN DEVELOPMENT
11/28/2022	ARC SUBMISSION
12/09/2022	100% DESIGN DEVELOPMENT
01/16/2023	ARC SUBMISSION
02/10/2023	50% CONSTRUCTION DOCUMENTS
03/02/2023	ARC SUBMISSION

PROGRESS DOCUMENTS NOT FOR CONSTRUCTION

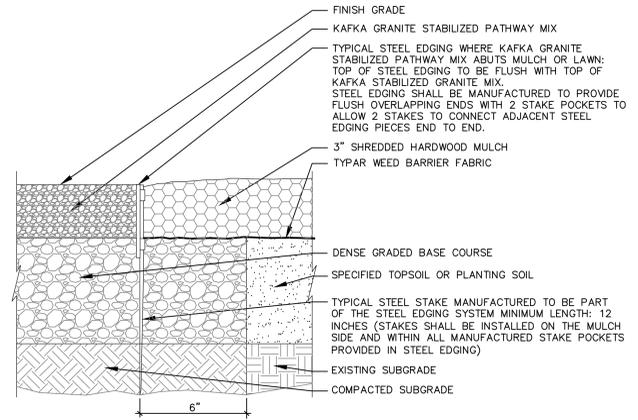
These documents reflect progress and intent and may be subject to change, including additional detail. These are not final construction documents and shall not be used for final bidding or construction-related purposes.



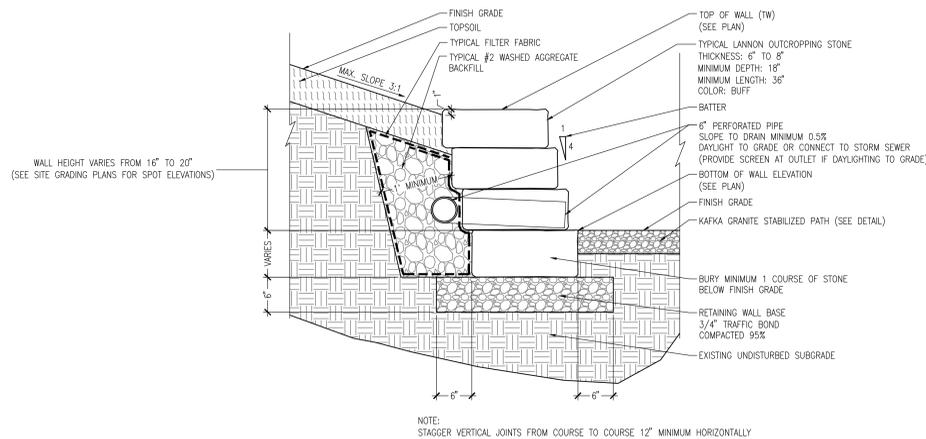
8 KAFKA GRANITE STABILIZED PATHWAY MIX AT SIDEWALK SECTION
N.T.S.



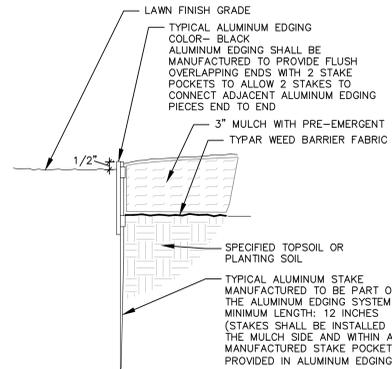
9 KAFKA GRANITE STABILIZED PATHWAY MIX PEDESTRIAN SECTION
N.T.S.



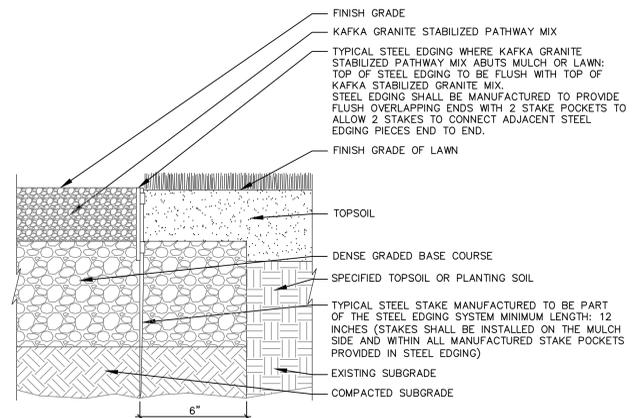
10 STEEL EDGING AT KAFKA GRANITE STABILIZED PATHWAY MIX & MULCH SECTION
N.T.S.



11 OUTCROPPING STONE RETAINING WALL SECTION
N.T.S.



12 ALUMINUM EDGING AT PLANTING BED SECTION
N.T.S.

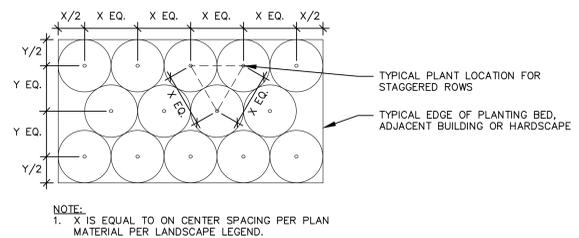


13 STEEL EDGING AT KAFKA GRANITE STABILIZED PATHWAY MIX & LAWN SECTION
N.T.S.

TREE PROTECTION NOTES:

DURING CONSTRUCTION, REASONABLE STEPS NECESSARY TO PREVENT THE DESTRUCTION OR DAMAGING OF TREES (OTHER THAN THOSE SPECIFIED TO BE REMOVED) SHALL BE TAKEN, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING.

- TO PROTECT AND PRESERVE THE TREES INDICATED TO REMAIN, THE CONTRACTOR SHALL INSTALL ORANGE CONSTRUCTION FENCE NO CLOSER TO THE TRUNK THAN 1 FOOT FOR EVERY 1 DBH (TREE DIAMETER AT BREAST HEIGHT) OF TREE TO REMAIN. ADDITIONALLY, SIGNS SHALL BE POSTED INFORMING THE PUBLIC AND SITE WORKERS THAT THE AREA FENCED IS A PROTECTED ZONE AND THE ZONE SHALL BE LEFT UNDISTURBED. THE GRADE SHALL NOT BE CHANGED IN THE PROTECTED ZONE. NO TREE PROTECTION FENCE IS REQUIRED WHERE EXISTING PAVEMENT IS WITHIN THE PROTECTED AREA.
- NO CONSTRUCTION ACTIVITY, MOVEMENT AND/OR PLACEMENT OF EQUIPMENT PARKING OF VEHICLES OR MATERIAL OR SPOILS STORAGE SHALL BE PERMITTED WITHIN THE TREE PRESERVATION AREA. NO EXCESS SOIL, ADDITIONAL FILL, LIQUIDS, OR CONSTRUCTION DEBRIS SHALL BE PLACED WITHIN THE CRITICAL ROOT ZONE (CRZ) OF ANY TREE THAT IS INDICATED TO BE PRESERVED.
- ALL REQUIRED PROTECTIVE FENCING (PLASTIC ORANGE CONSTRUCTION FENCING) OR OTHER PHYSICAL BARRIER MUST BE IN PLACE AROUND THE TREE PRESERVATION AREA AND/OR TREES PRIOR TO BEGINNING CONSTRUCTION. THE FENCING OR OTHER PHYSICAL BARRIER MUST REMAIN IN PLACE DURING THE ENTIRE CONSTRUCTION PERIOD. ALL FENCING MUST BE SECURED TO METAL POSTS DRIVEN INTO THE GROUND DEEP ENOUGH TO REMAIN VERTICAL AND PLUMB, AND SHALL BE SPACED NO FURTHER THAN TEN FEET (10') APART.
- NO ATTACHMENTS, FENCES OR WIRES, OTHER THAN THOSE APPROVED FOR BRACING, GUYING OR WRAPPING, SHALL BE ATTACHED TO TREES DURING THE CONSTRUCTION PERIOD.
- DRAINAGE OF THE SITE SHALL BE DESIGNED SO THAT AFTER CONSTRUCTION, THE SAME AMOUNT OF WATER AND RATE OF DISCHARGE WILL REACH THE TREES AS IT DID PRIOR TO CONSTRUCTION.
- WHEN TRENCHING ALONGSIDE EXISTING TREES IS UNAVOIDABLE, THE TRENCH MUST BE 1 FOOT FOR EVERY 1 INCH DBH AWAY FROM THE BASE OF THE EXISTING TREE TO BE PROTECTED.
- CONSTRUCTION PRUNING AND ROOT PRUNING OF TREES DIRECTLY IMPACTED BY CONSTRUCTION MAY BE REQUIRED FOR PRESERVATION OF EXISTING TREES.



15 PERENNIALS AND GROUNDCOVERS SPACING: TRIANGULAR
N.T.S.

14 TREE PROTECTION NOTES



milwaukee 333 East Chicago Street
Milwaukee, Wisconsin 53202
414.271.5330

madiison 309 West Johnson Street, Suite 202
Madison, Wisconsin 53703
608.442.2350

denver 1899 Wynkoop Street, Suite 700
Denver, Colorado 80202
303.586.4500

PROJECT INFORMATION

BAYSIDE MIDDLE SCHOOL

601 E ELLSWORTH LN, BAYSIDE, WI 53217

ISSUANCE AND REVISIONS

DATE	DESCRIPTION
09/16/2022	50% DESIGN DEVELOPMENT
11/18/2022	75% DESIGN DEVELOPMENT
11/28/2022	ARC SUBMISSION
12/09/2022	100% DESIGN DEVELOPMENT
01/10/2023	ARC SUBMISSION
02/10/2023	50% CONSTRUCTION DOCUMENTS
03/02/2023	ARC SUBMISSION

KEY PLAN



7711 N. Port Washington Road
Milwaukee, Wisconsin 53217

kapurinc.com

SHEET INFORMATION

PROGRESS DOCUMENTS NOT FOR CONSTRUCTION

These documents reflect progress and intent and may be subject to change, including additional detail. These are not final construction documents and shall not be used for final bidding or construction-related purposes.

PROJECT MANAGER TS

PROJECT NUMBER 19314-02

NATIVE SEEDING NOTES

L203

1	2	3	4	5	6	7				
Bird and Butterfly Seed Mix										
Wet Mesic to Dry Full Sun to Part Sun Seeding rate: 13.52 PLS LBS/Acre 103.44 Seeds/Square Foot										
Seed Mix to be "Bird and Butterfly" Seed Mix produced by Agrecol (phone 1-608-223-3571) - or approved equal										
The seed mix shall contain the following wildflowers, grasses, sedges & rushes:										
Scientific Name	Common Name	Oz/Acre	Color	Height	Bloom	Moisture	Sun	Seed/Oz	Seeds/SF	% of mix
Grasses, Sedges & Rushes										
<i>Bouteloua curtipendula</i>	Side Oats Grama	32.00	Green	1-3'	July-Aug	Mesic-Dry	FP	12500	9.18	8.9%
<i>Bromus kalmii</i>	Prairie Brome	20.00	Green	1-2'	June-July	W/M-DM	FP	10000	4.59	4.4%
<i>Elymus canadensis</i>	Canada Wild Rye	32.00	Green	3-5'	June-Oct	W/M-Dry	FP	6000	4.41	4.3%
<i>Koeleria cristata (macrantha)</i>	June Grass	1.75	Green	1-2'	June-Sep	DM-Dry	FP	225000	9.04	8.7%
<i>Schizachyrium scoparium</i>	Little Bluestem	16.00	Green	2-3'	June-Aug	Mesic-Dry	FP	20000	7.35	7.1%
<i>Sporobolus heterolepis</i>	Prairie Dropseed	12.00	Green	2-3'	July-Aug	Mesic-Dry	FP	16000	4.41	4.3%
Grasses, Sedges & Rushes total		113.75							38.98	37.7%
Wildflowers										
<i>Agastache foeniculum</i>	Lavender Hyssop	0.50	Purple	2-4'	June-Sep	Mesic-DM	FP	100000	1.15	1.1%
<i>Allium cernuum</i>	Nodding Onion	2.00	Pink	1-2'	July-Aug	W/M-DM	FP	8500	0.39	0.4%
<i>Amorpha canescens</i>	Leadplant	1.00	Purple	1-3'	June-Aug	Mesic-Dry	FP	24000	0.55	0.5%
<i>Anemone canadensis</i>	Meadow Anemone	3.00	White	1-2'	May-July	W/M-Mesic	FP	8000	0.55	0.5%
<i>Asclepias incarnata</i>	Wild Columbine	0.60	Red	1-3'	Apr-June	Mesic-Dry	FPS	45000	0.62	0.6%
<i>Asclepias tuberosa</i>	Marsh (Red) Milkweed	1.50	Red	3-5'	June-Aug	Wet-Mesic	F	5500	0.19	0.2%
<i>Asclepias syriaca</i>	Common Milkweed	1.00	Lavender	2-4'	June-Aug	Mesic-Dry	FP	6300	0.14	0.1%
<i>Asclepias tuberosa</i>	Butterfly Weed	4.00	Orange	2-3'	June-Sep	Mesic-Dry	FP	4375	0.40	0.4%
<i>Aster laevis</i>	Smooth Blue Aster	1.00	Blue	3-5'	Aug-Oct	W/M-DM	FP	55000	1.26	1.2%
<i>Aster azureus</i>	Sky Blue Aster	0.75	Blue	1-3'	Aug-Oct	Mesic-Dry	FP	82000	1.41	1.4%
<i>Aster novae-angliae</i>	New England Aster	0.75	Purple	4-5'	Sep-Oct	Wet-DM	FP	100000	1.72	1.7%
<i>Astragalus canadensis</i>	Canada Milk Vetch	3.00	Cream	1-3'	Aug-Oct	W/M-DM	FP	15000	1.03	1.0%
<i>Baptisia australis</i>	Blue Wild Indigo	4.00	Blue	3-5'	May-July	W/M-Mesic	FP	1500	0.14	0.1%
<i>Chaemacrista fasciculata</i>	Partridge Pea	8.00	Yellow	1-3'	June-Aug	Mesic-Dry	F	2700	0.50	0.5%
<i>Coreopsis lanceolata</i>	Lance-Leaf (Sand) Coreopsis	2.50	Yellow	1-3'	May-July	DM-Dry	F	24000	1.38	1.3%
<i>Coreopsis palmata</i>	Prairie Coreopsis	2.00	Yellow	1-2'	June-Aug	Mesic-Dry	FP	14000	0.64	0.6%
<i>Dalea candida</i>	White Prairie Clover	3.00	White	1-2'	June-Oct	Mesic-Dry	F	26000	1.79	1.7%
<i>Dalea purpurea</i>	Purple Prairie Clover	3.00	Purple	1-2'	June-Aug	Mesic-Dry	F	23000	1.58	1.5%
<i>Echinacea pallida</i>	Pale Purple Coneflower	6.00	Purple	3-5'	June-July	Mesic-Dry	FP	5500	0.76	0.7%
<i>Echinacea purpurea</i>	Purple Coneflower	4.00	Purple	3-4'	July-Aug	W/M-DM	FP	7000	0.64	0.6%
<i>Eryngium yuccifolium</i>	Rattlesnake Master	3.00	White	3-4'	July-Aug	W/M-DM	F	12000	0.83	0.8%
<i>Eupatorium maculatum</i>	Spotted Joe Pye Weed	1.00	Pink	4-6'	July-Sep	Wet-WM	FP	110000	1.26	1.2%
<i>Helianthus grosseserratus</i>	Sawtooth Sunflower	1.00	Yellow	4-8'	July-Oct	W/M-DM	FP	15000	0.34	0.3%
<i>Helipopsis helianthodes</i>	Early Sunflower	8.00	Yellow	3-5'	June-Oct	W/M-DM	FP	6500	1.19	1.2%
<i>Pycnanthemum virginianum</i>	Mountain Mint	0.50	White	1-3'	July-Sep	Wet-Mesic	FP	220000	2.53	2.4%
<i>Liatris aspera</i>	Rough Blazing Star	0.75	Purple	1-3'	Aug-Oct	Mesic-Dry	F	20000	0.34	0.3%
<i>Liatris pycnostachya</i>	Prairie Blazing Star	4.00	Purple	2-4'	July-Sep	Mesic-DM	FP	15000	1.38	1.3%
<i>Lobelia cardinalis</i>	Cardinal Flower	0.50	Red	3-5'	July-Sep	Wet-WM	FP	400000	4.59	4.4%
<i>Lobelia siphilitica</i>	Great Blue Lobelia	0.50	Blue	1-2'	July-Sep	Wet-Mesic	FP	500000	5.74	5.5%
<i>Lupinus perennis</i>	Wild Lupine	1.00	Blue	1-3'	May-June	DM-Dry	FP	1200	0.03	0.0%
<i>Monarda fistulosa</i>	Wild Bergamot	1.00	Lavender	2-4'	June-Aug	W/M-Dry	FP	100000	2.30	2.2%
<i>Penstemon digitalis</i>	Foxglove Beard Tongue	0.75	White	1-3'	May-July	Mesic-DM	FPS	120000	2.07	2.0%
<i>Physostegia virginiana</i>	Obedient Plant	1.50	Blue	2-3'	July-Sep	Wet-Mesic	FP	17000	0.59	0.6%
<i>Rattidida pinnata</i>	Yellow Coneflower	2.50	Yellow	4-5'	July-Aug	Mesic-DM	FP	30000	1.72	1.7%
<i>Rosa arkansana</i>	Prairie Wild Rose	2.00	Pink	3-5'	June-Aug	W/M-Dry	FP	2200	0.10	0.1%
<i>Rudbeckia hirta</i>	Black-Eyed Susan	3.00	Yellow	1-3'	June-Sep	W/M-Dry	FP	130000	8.95	8.7%
<i>Rudbeckia subtomentosa</i>	Sweet Black-Eyed Susan	2.50	Yellow	4-5'	July-Sep	W/M-DM	FP	65000	3.73	3.6%
<i>Rudbeckia triloba</i>	Brown-Eyed Susan	1.50	Yellow	3-5'	July-Oct	W/M-DM	FP	30000	1.03	1.0%
<i>Silphium laciniatum</i>	Compass Plant	6.00	Yellow	4-9'	June-Sep	W/M-Dry	FP	1000	0.14	0.1%
<i>Solidago rigida</i>	Stiff Goldenrod	1.00	Yellow	3-5'	July-Sep	W/M-Dry	F	50000	1.15	1.1%
<i>Solidago speciosa</i>	Showy Goldenrod	0.75	Yellow	3-5'	July-Oct	Mesic-Dry	FP	95000	1.64	1.6%
<i>Tradescantia ohioensis</i>	Ohio Spiderwort	2.00	Blue	2-4'	May-July	W/M-Dry	FP	8000	0.37	0.4%
<i>Verbena stricta</i>	Hoary Vervain	1.50	Purple	1-3'	July-Sep	DM-Dry	FP	30000	1.03	1.0%
<i>Vernonia fasciculata</i>	Ironweed	1.00	Purple	4-6'	July-Sep	W/M-Mesic	FP	35000	0.80	0.8%
<i>Juncus struthium</i>	Culver's Root	0.15	White	3-5'	July-Aug	W/M-DM	FP	800000	2.75	2.7%
<i>Zizia aurea</i>	Golden Alexanders	4.00	Yellow	2-4'	May-July	W/M-DM	FP	11000	1.01	1.0%
Wildflowers total		102.50							64.45	62.3%
Oz/Acre		Seeds/SF % of mix								
Seed Mix totals		216.25							103.43	100.0%

Wet Mesic to Dry
Full Sun to Part Sun
Seeding rate: 13.52 PLS LBS/Acre
103.44 Seeds/Square Foot

Seed Mix to be "Bird and Butterfly" Seed Mix produced by Agrecol (phone 1-608-223-3571) - or approved equal

The seed mix shall contain the following wildflowers, grasses, sedges & rushes:

Scientific Name	Common Name	Oz/Acre	Color	Height	Bloom	Moisture	Sun	Seed/Oz	Seeds/SF	% of mix
Grasses, Sedges & Rushes										
<i>Bouteloua curtipendula</i>	Side Oats Grama	32.00	Green	1-3'	July-Aug	Mesic-Dry	FP	12500	9.18	8.9%
<i>Bromus kalmii</i>	Prairie Brome	20.00	Green	1-2'	June-July	W/M-DM	FP	10000	4.59	4.4%
<i>Elymus canadensis</i>	Canada Wild Rye	32.00	Green	3-5'	June-Oct	W/M-Dry	FP	6000	4.41	4.3%
<i>Koeleria cristata (macrantha)</i>	June Grass	1.75	Green	1-2'	June-Sep	DM-Dry	FP	225000	9.04	8.7%
<i>Schizachyrium scoparium</i>	Little Bluestem	16.00	Green	2-3'	June-Aug	Mesic-Dry	FP	20000	7.35	7.1%
<i>Sporobolus heterolepis</i>	Prairie Dropseed	12.00	Green	2-3'	July-Aug	Mesic-Dry	FP	16000	4.41	4.3%
Grasses, Sedges & Rushes total		113.75							38.98	37.7%

Scientific Name	Common Name	Oz/Acre	Color	Height	Bloom	Moisture	Sun	Seed/Oz	Seeds/SF	% of mix
Wildflowers										
<i>Agastache foeniculum</i>	Lavender Hyssop	0.50	Purple	2-4'	June-Sep	Mesic-DM	FP	100000	1.15	1.1%
<i>Allium cernuum</i>	Nodding Onion	2.00	Pink	1-2'	July-Aug	W/M-DM	FP	8500	0.39	0.4%
<i>Amorpha canescens</i>	Leadplant	1.00	Purple	1-3'	June-Aug	Mesic-Dry	FP	24000	0.55	0.5%
<i>Anemone canadensis</i>	Meadow Anemone	3.00	White	1-2'	May-July	W/M-Mesic	FP	8000	0.55	0.5%
<i>Asclepias incarnata</i>	Wild Columbine	0.60	Red	1-3'	Apr-June	Mesic-Dry	FPS	45000	0.62	0.6%
<i>Asclepias tuberosa</i>	Marsh (Red) Milkweed	1.50	Red	3-5'	June-Aug	Wet-Mesic	F	5500	0.19	0.2%
<i>Asclepias syriaca</i>	Common Milkweed	1.00	Lavender	2-4'	June-Aug	Mesic-Dry	FP	6300	0.14	0.1%
<i>Asclepias tuberosa</i>	Butterfly Weed	4.00	Orange	2-3'	June-Sep	Mesic-Dry	FP	4375	0.40	0.4%
<i>Aster laevis</i>	Smooth Blue Aster	1.00	Blue	3-5'	Aug-Oct	W/M-DM	FP	55000	1.26	1.2%
<i>Aster azureus</i>	Sky Blue Aster	0.75	Blue	1-3'	Aug-Oct	Mesic-Dry	FP	82000	1.41	1.4%
<i>Aster novae-angliae</i>	New England Aster	0.75	Purple	4-5'	Sep-Oct	Wet-DM	FP	100000	1.72	1.7%
<i>Astragalus canadensis</i>	Canada Milk Vetch	3.00	Cream	1-3'	Aug-Oct	W/M-DM	FP	15000	1.03	1.0%
<i>Baptisia australis</i>	Blue Wild Indigo	4.00	Blue	3-5'	May-July	W/M-Mesic	FP	1500	0.14	0.1%
<i>Chaemacrista fasciculata</i>	Partridge Pea	8.00	Yellow	1-3'	June-Aug	Mesic-Dry	F	2700	0.50	0.5%
<i>Coreopsis lanceolata</i>	Lance-Leaf (Sand) Coreopsis	2.50	Yellow	1-3'	May-July	DM-Dry	F	24000	1.38	1.3%
<i>Coreopsis palmata</i>	Prairie Coreopsis	2.00	Yellow	1-2'	June-Aug	Mesic-Dry	FP	14000	0.64	0.6%
<i>Dalea candida</i>	White Prairie Clover	3.00	White	1-2'	June-Oct	Mesic-Dry	F	26000	1.79	1.7%
<i>Dalea purpurea</i>	Purple Prairie Clover	3.00	Purple	1-2'	June-Aug	Mesic-Dry	F	23000	1.58	1.5%
<i>Echinacea pallida</i>	Pale Purple Coneflower	6.00	Purple	3-5'	June-July	Mesic-Dry	FP	5500	0.76	0.7%
<i>Echinacea purpurea</i>	Purple Coneflower	4.00	Purple	3-4'	July-Aug	W/M-DM	FP	7000	0.64	0.6%
<i>Eryngium yuccifolium</i>	Rattlesnake Master	3.00	White	3-4'	July-Aug	W/M-DM	F	12000	0.83	0.8%
<i>Eupatorium maculatum</i>	Spotted Joe Pye Weed	1.00	Pink	4-6'	July-Sep	Wet-WM	FP	110000	1.26	1.2%
<i>Helianthus grosseserratus</i>	Sawtooth Sunflower	1.00	Yellow	4-8'	July-Oct	W/M-DM	FP	15000	0.34	0.3%
<i>Helipopsis helianthodes</i>	Early Sunflower	8.00	Yellow	3-5'	June-Oct	W/M-DM	FP	6500	1.19	1.2%
<i>Pycnanthemum virginianum</i>	Mountain Mint	0.50	White	1-3'	July-Sep	Wet-Mesic	FP	220000	2.53	2.4%
<i>Liatris aspera</i>	Rough Blazing Star	0.75	Purple	1-3'	Aug-Oct	Mesic-Dry	F	20000	0.34	0.3%
<i>Liatris pycnostachya</i>	Prairie Blazing Star	4.00	Purple	2-4'	July-Sep	Mesic-DM	FP	15000	1.38	1.3%

Alpine Currant



Height: 3 - 5 feet

Spread: 5 - 6 feet

Shape: Rounding

Foliage: Glossy Green

Flower: Greenish

Fruit: Orange to red, 1/8 inch

Description: Dense, deep bright green foliage. Excellent hedge plant. Seldom fruits.

Dwarf Bush-Honeysuckle



Height: 3 - 4 feet

Spread: 4 - 5 feet

Shape: Mounded, Spreading

Foliage: Bronze-Green

Fall Color: Red, Bronze

Flower: Yellow

Fruit: Insignificant

Description: Compact, spreading shrub with small yellow flowers in mid-summer. Bronze-green foliage turns reddish-bronze in autumn. Insect and disease resistant. Tolerates dry sites.

Gro-low Sumac



Height: 2 - 3 feet

Spread: 6 - 8 feet

Shape: Spreading

Foliage: Glossy Green

Fall Color: Orange-Maroon

Flower: Yellow

Description: A low maintenance, sprawling shrub with glossy green foliage. Striking orange and maroon fall color. Excellent plant for mass planting in tough urban sites.

Little Lime Hydrangea



Height: 3-5 feet

Spread: 3-5 feet

Shape: Upright, rounded

Foliage: Green

Flower: Lime Green

Description: Beautiful, large, soft lime green flowers hold their color onto autumn before maturing to pink and burgundy.

Meyer Lilac



Height: 4 – 5 feet

Spread: 5 – 7 feet

Shape: Rounded

Foliage: Bright Green

Fall Color: None, remains green

Flower: Purple, fragrant

Description: Meyer lilac is a compact shrub with highly fragrant, lavender flowers and small ruffled leaves

Sea Green Juniper



Height: 4 - 6 feet

Spread: 6 - 8 feet

Shape: Compact, Spreader

Foliage: Mint Green

Description: Attractive, mint green foliage that darkens with age. Arching branches create a fountain-like appearance.